

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080415\
 Data File : BM002229.D
 Acq On : 05 Aug 2015 02:56
 Operator : TP/UM
 Sample : G3095-12
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C01S3RE

Quant Time: Aug 05 05:33:33 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM080415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 05 02:56:04 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.52	152	127046	20.00	ng/ul	0.00
18) Naphthalene-d8	10.32	136	500169	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.20	164	279793	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.97	188	586922	20.00	ng/ul	0.02
78) Chrysene-d12	21.20	240	772178	20.00	ng/ul	0.04
86) Perylene-d12	23.40	264	749732	20.00	ng/ul	0.05

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.96	96	3215	1.44	ng/uL	0.00
5) Phenol-d5	6.72	99	96812	10.26	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.86	67	49005	9.93	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	83410	10.34	ng/ul	0.01
13) 4-Methylphenol-d8	8.26	113	80964	10.33	ng/ul	0.00
19) Nitrobenzene-d5	8.69	128	39627	10.93	ng/ul	0.00
22) 2-Nitrophenol-d4	9.41	143	43997	10.29	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.96	165	85216	10.41	ng/ul	0.01
29) 4-Chloroaniline-d4	10.47	131	62126	6.86	ng/ul	0.01
44) Dimethylphthalate-d6	13.62	166	233555	11.48	ng/ul	0.01
47) Acenaphthylene-d8	13.89	160	284487	11.06	ng/ul	0.00
52) 4-Nitrophenol-d4	14.47	143	27235	10.33	ng/ul	0.03
58) Fluorene-d10	15.20	176	196172	10.91	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.39	200	2796	0.83	ng/ul	0.04
71) Anthracene-d10	17.07	188	295115	11.30	ng/ul	0.02
79) Pyrene-d10	19.39	212	333674	9.03	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.26	264	382124	10.50	ng/ul	0.06

Target Compounds

						Qvalue
6) Phenol	6.75	94	11586	1.21	ng/ul	99
14) Acetophenone	8.35	105	14205	1.14	ng/ul	96
28) Naphthalene	10.37	128	2182205	92.24	ng/ul	99
34) 2-Methylnaphthalene	11.99	142	298093	16.37	ng/ul	100
35) 1-Methylnaphthalene	12.22	142	145936	8.39	ng/ul	99
41) 1,1'-Biphenyl	13.02	154	114774	5.34	ng/ul	99
45) Dimethylphthalate	13.66	163	80467	3.97	ng/ul	99
48) Acenaphthylene	13.92	152	117824	4.49	ng/ul	99
50) Acenaphthene	14.28	153	1739608	101.52	ng/ul	99
53) 4-Nitrophenol	14.60	109	3592	1.55	ng/ul#	1
54) Dibenzofuran	14.61	168	862496	34.73	ng/ul	100
59) Fluorene	15.26	166	1152825	56.46	ng/ul	100
61) 4-Nitroaniline	15.26	138	12310	3.21	ng/ul#	17
70) Phenanthrene	17.04	178	11189316	371.29	ng/ul	95
72) Anthracene	17.12	178	2740839	88.98	ng/ul	99
75) Carbazole	17.38	167	1409496	54.91	ng/ul	99
77) Fluoranthene	19.19	202	53576	1.62	ng/ul	99
80) Pyrene	19.44	202	13185234	277.81	ng/ul#	87
83) Benzo(a)anthracene	21.18	228	8007300	185.10	ng/ul	95
84) Bis(2-ethylhexyl)phthalate	21.08	149	30567	1.26	ng/ul#	93
85) Chrysene	21.18	228	8007300	201.05	ng/ul	97
88) Benzo(b)fluoranthene	22.76	252	10853717	256.93	ng/ul#	95
89) Benzo(k)fluoranthene	22.76	252	4305357	105.24	ng/ul#	95

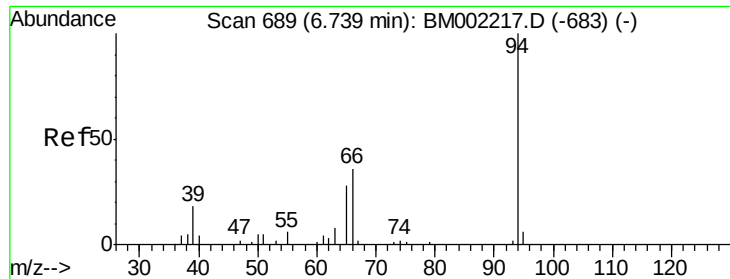
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM080415\
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QLast Update : Wed Aug 05 02:56:04 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	23.33	252	7418185	183.87	ng/ul#	95
92) Indeno(1,2,3-cd)pyrene	25.67	276	4893595	107.64	ng/ul	97
93) Dibenzo(a,h)anthracene	25.64	278	1489796	38.43	ng/ul#	89
94) Benzo(g,h,i)perylene	26.36	276	4398738	116.18	ng/ul	94

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



#6

Phenol

Concen: 1.21 ng/ul

RT: 6.75 min Scan# 691

Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

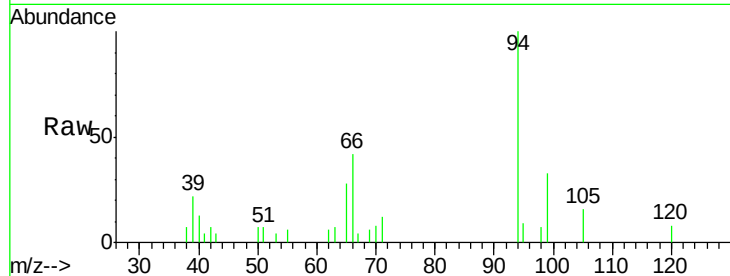
Tgt Ion: 94 Resp: 11586

Ion Ratio Lower Upper

94 100

65 28.2 23.4 35.0

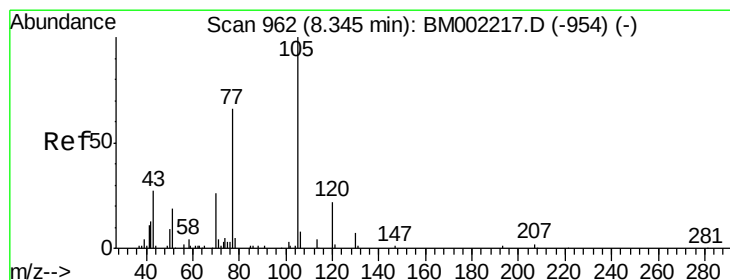
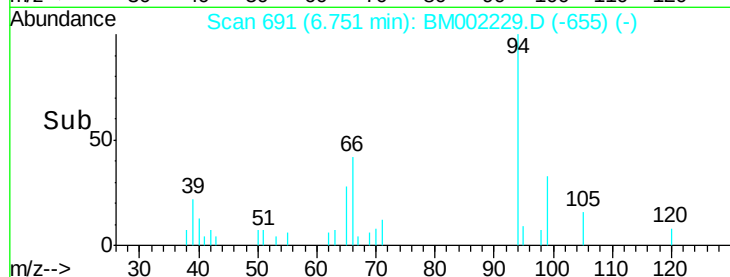
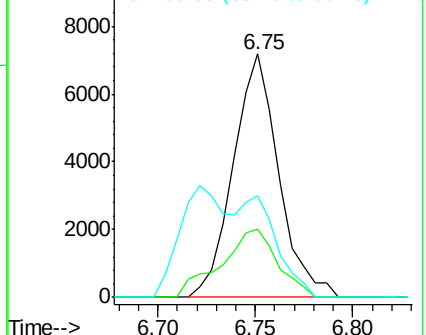
66 41.9 33.2 49.8



Abundance Ion 94.00 (93.70 to 94.70): BM002217.D (-683) (-)

Ion 65.00 (64.70 to 65.70): BM002217.D (-683) (-)

Ion 66.00 (65.70 to 66.70): BM002217.D (-683) (-)



#14

Acetophenone

Concen: 1.14 ng/ul

RT: 8.35 min Scan# 963

Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

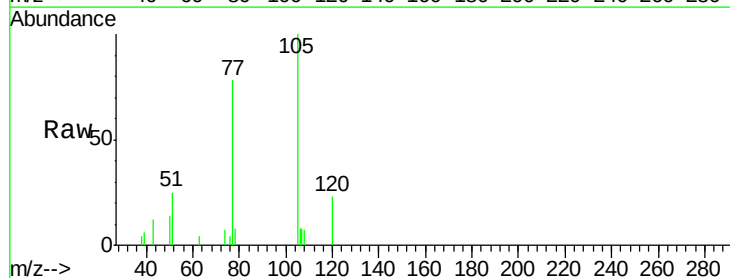
Tgt Ion: 105 Resp: 14205

Ion Ratio Lower Upper

105 100

77 78.0 60.1 90.1

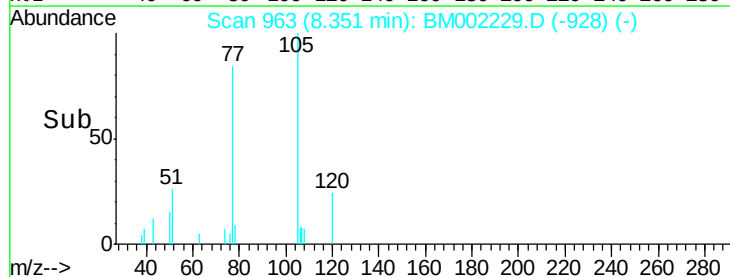
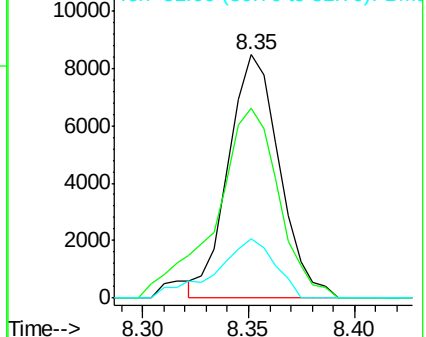
51 24.6 17.8 26.8

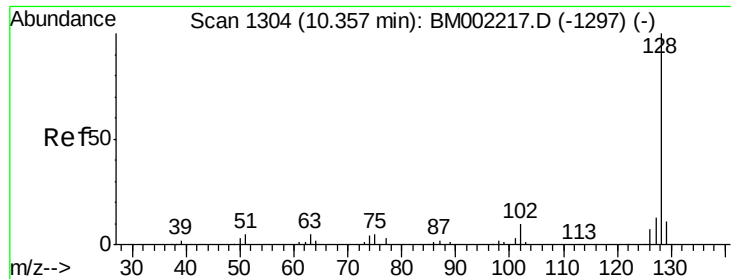


Abundance Ion 105.00 (104.70 to 105.70): BM002217.D (-954) (-)

Ion 77.00 (76.70 to 77.70): BM002217.D (-954) (-)

Ion 51.00 (50.70 to 51.70): BM002217.D (-954) (-)

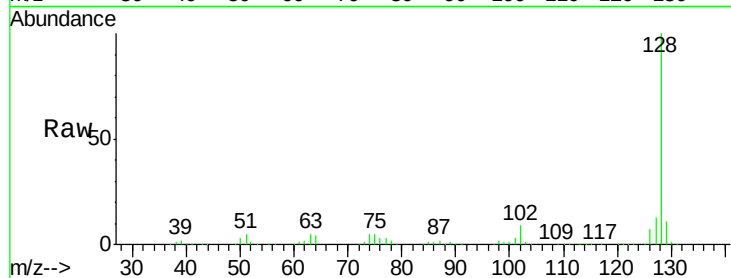




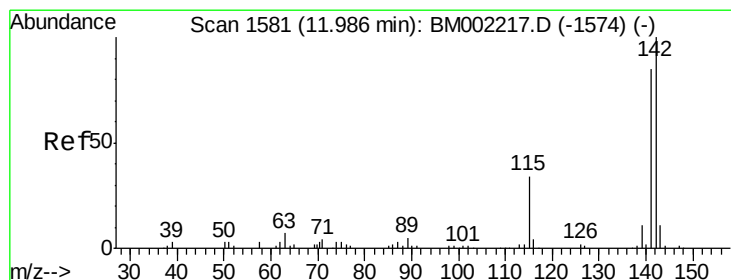
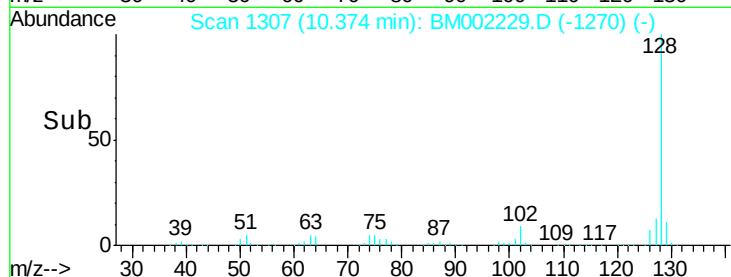
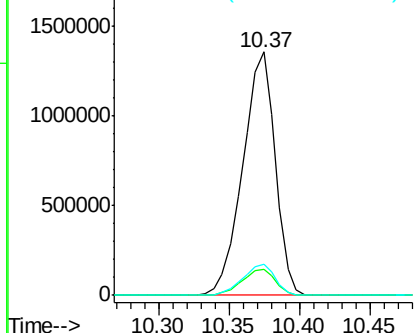
#28
Naphthalene
Concen: 92.24 ng/ul
RT: 10.37 min Scan# 1307
Delta R.T. 0.02 min
Lab File: BM002229.D
Acq: 05 Aug 2015 02:56

Instrument :
BNA_M
ClientSampleId :
C01S3RE

Tgt Ion:128 Resp: 2182205
Ion Ratio Lower Upper
128 100
129 10.8 8.2 12.2
127 12.8 10.1 15.1

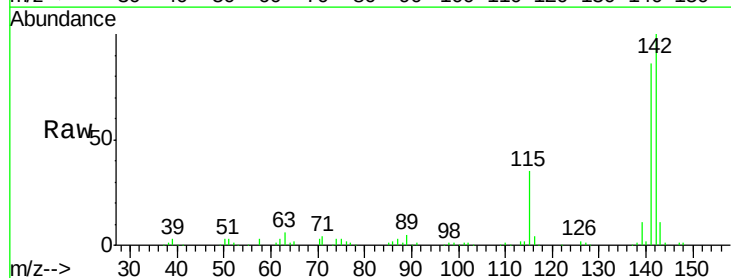


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

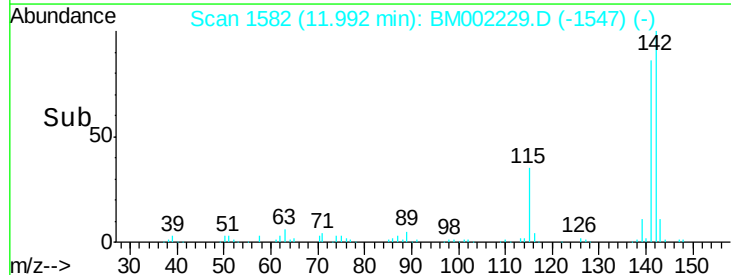
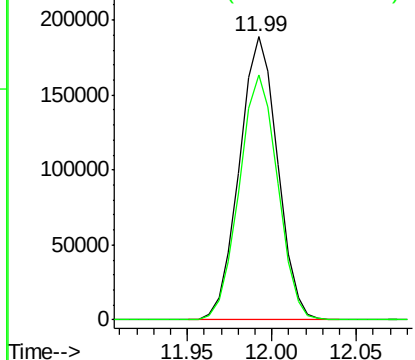


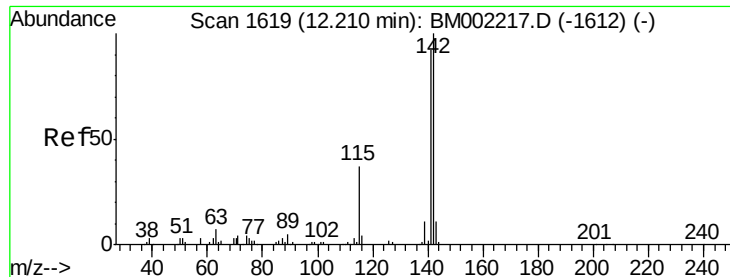
#34
2-Methylnaphthalene
Concen: 16.37 ng/ul
RT: 11.99 min Scan# 1582
Delta R.T. 0.01 min
Lab File: BM002229.D
Acq: 05 Aug 2015 02:56

Tgt Ion:142 Resp: 298093
Ion Ratio Lower Upper
142 100
141 86.4 68.9 103.3



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

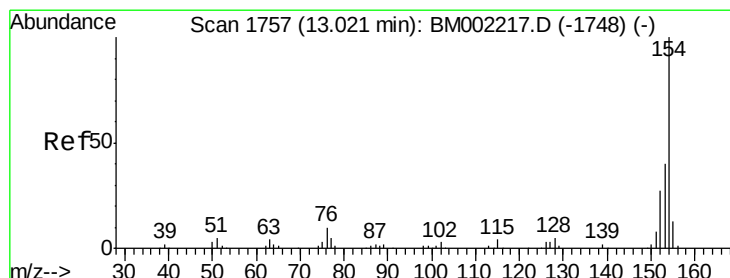
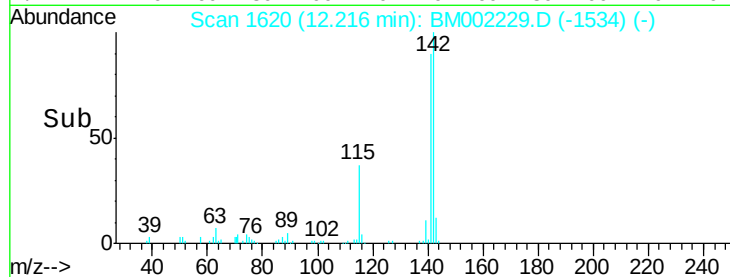
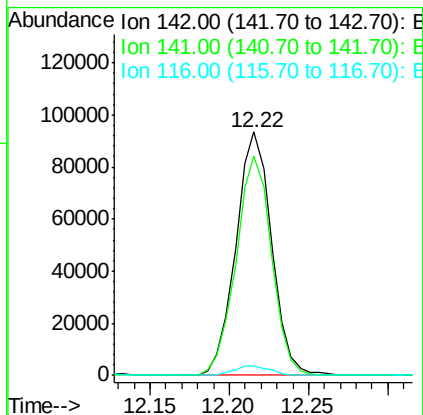
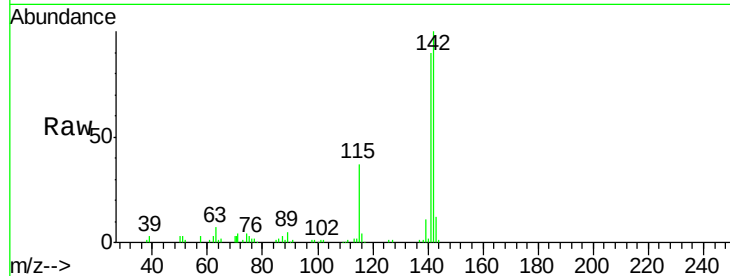




#35
 1-Methylnaphthalene
 Concen: 8.39 ng/ul
 RT: 12.22 min Scan# 1620
 Delta R.T. 0.01 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

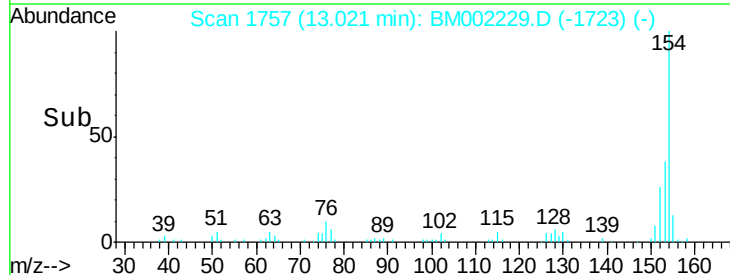
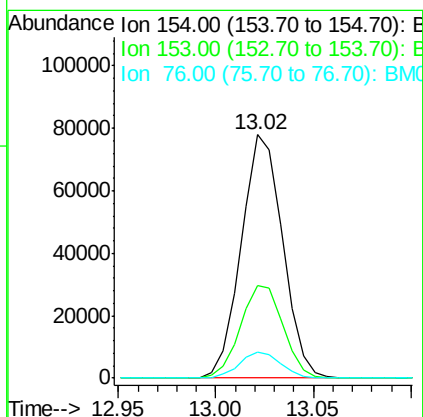
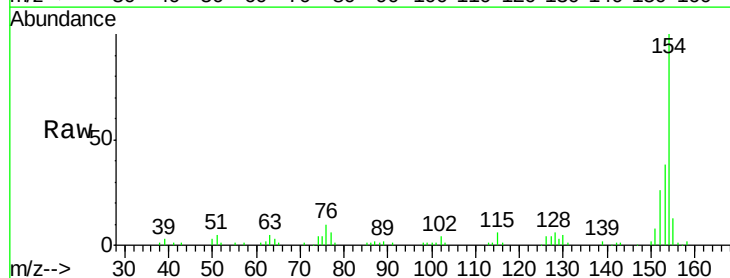
Instrument :
 BNA_M
 ClientSampleId :
 C01S3RE

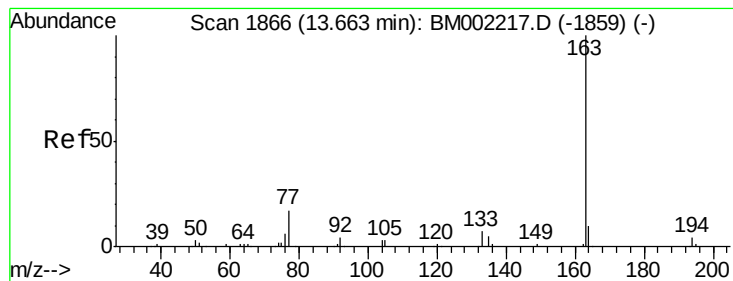
Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.0	106.4
116	3.9	3.3	4.9



#41
 1,1'-Biphenyl
 Concen: 5.34 ng/ul
 RT: 13.02 min Scan# 1757
 Delta R.T. 0.00 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.0	31.0	46.6
76	10.5	8.0	12.0





#45

Dimethylphthalate

Concen: 3.97 ng/ul

RT: 13.66 min Scan# 1866

Delta R.T. 0.00 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

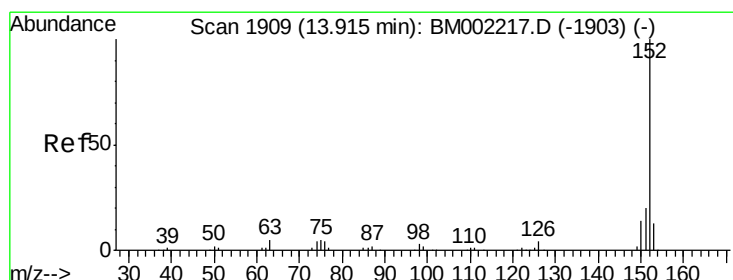
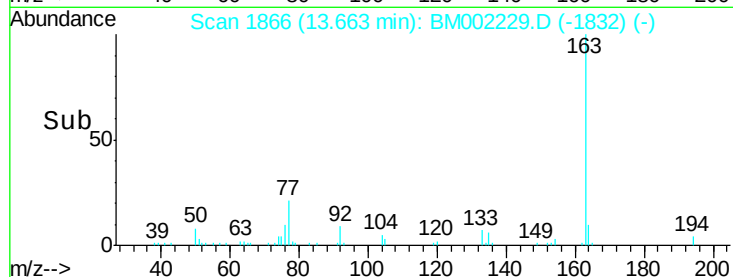
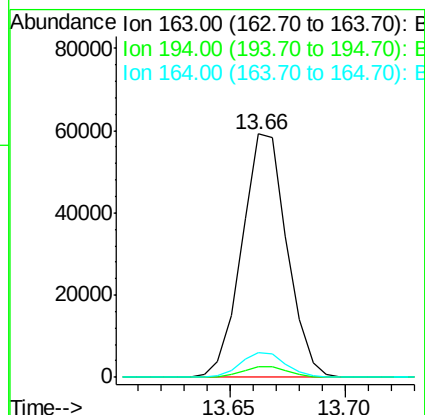
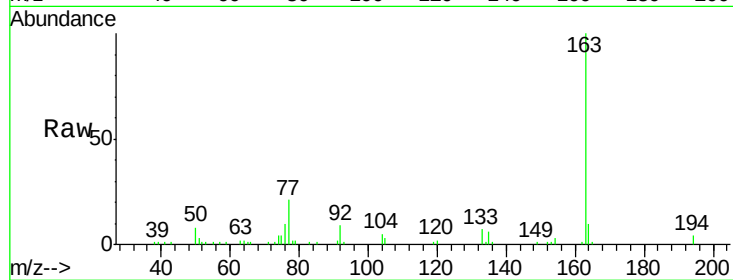
Instrument :

BNA_M

ClientSampleId :

C01S3RE

Tgt Ion:	163	Resp:	80467
Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	7.9	11.9



#48

Acenaphthylene

Concen: 4.49 ng/ul

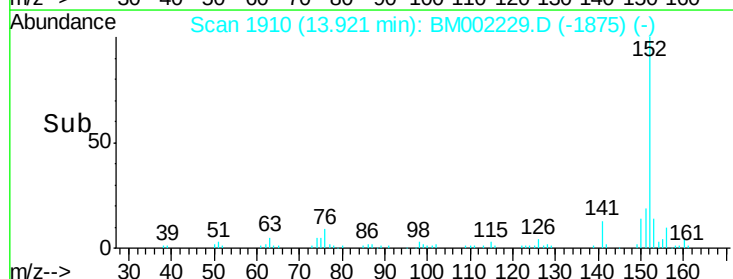
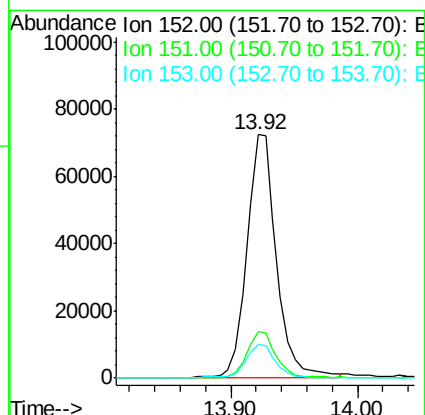
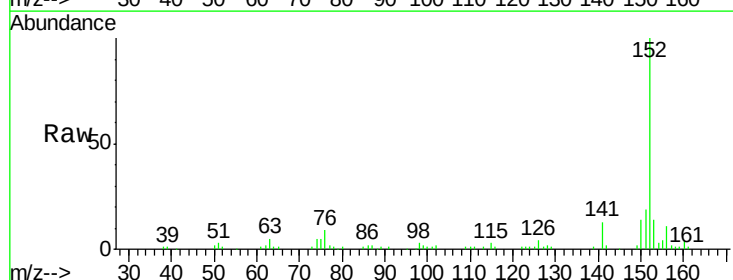
RT: 13.92 min Scan# 1910

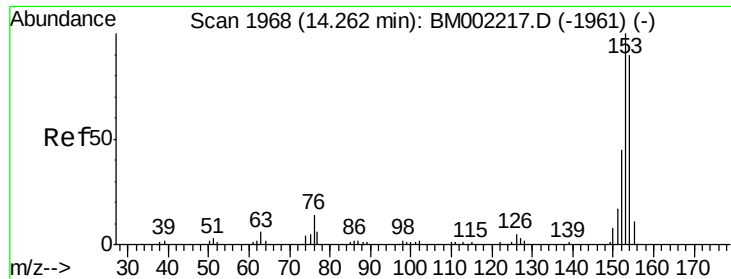
Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Tgt Ion:	152	Resp:	117824
Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.2	22.8
153	13.6	10.3	15.5





#50

Acenaphthene

Concen: 101.52 ng/ul

RT: 14.28 min Scan# 1971

Delta R.T. 0.02 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

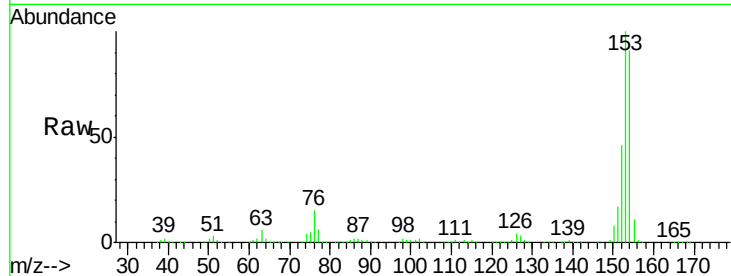
Tgt Ion:153 Resp: 1739608

Ion Ratio Lower Upper

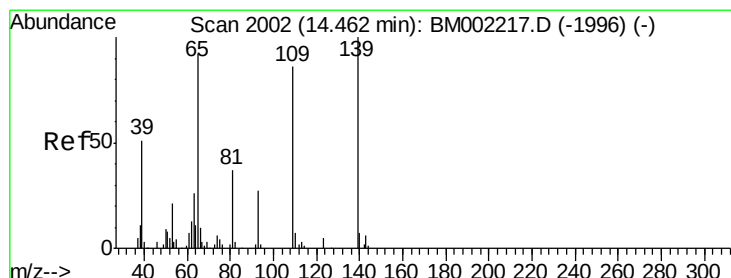
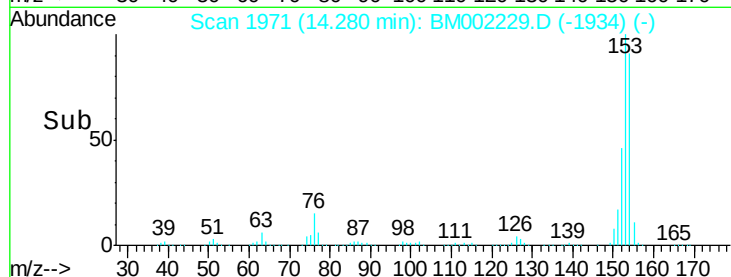
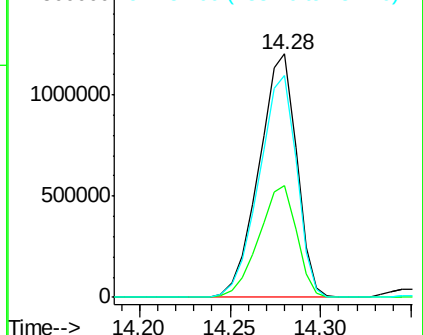
153 100

152 45.9 36.6 54.8

154 91.1 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: 1.55 ng/ul

RT: 14.60 min Scan# 2026

Delta R.T. 0.14 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

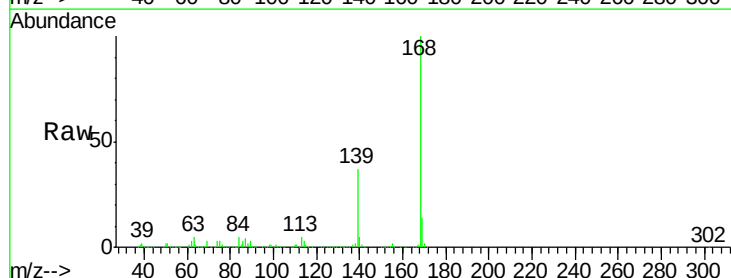
Tgt Ion:109 Resp: 3592

Ion Ratio Lower Upper

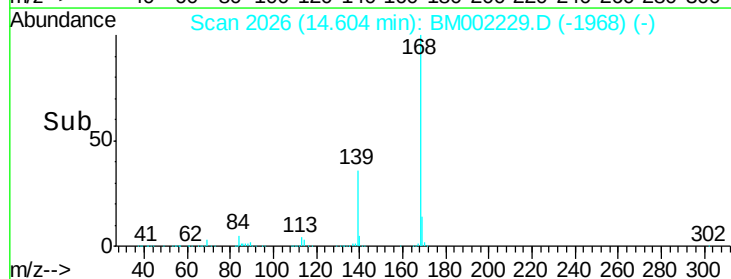
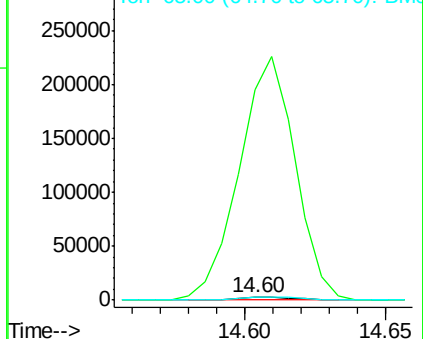
109 100

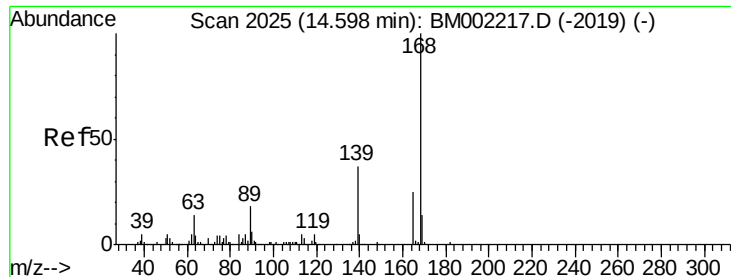
139 8337.7 98.7 148.1#

65 109.4 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): BM0





#54

Dibenzenofuran

Concen: 34.73 ng/ul

RT: 14.61 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

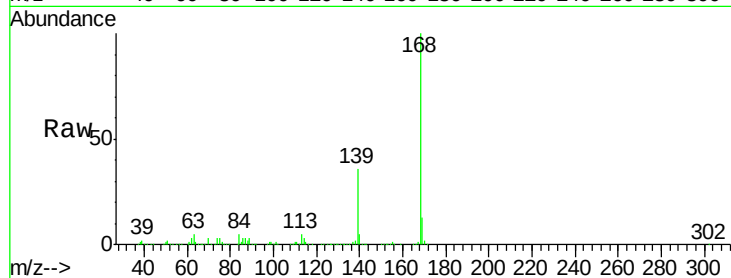
C01S3RE

Tgt Ion:168 Resp: 862496

Ion Ratio Lower Upper

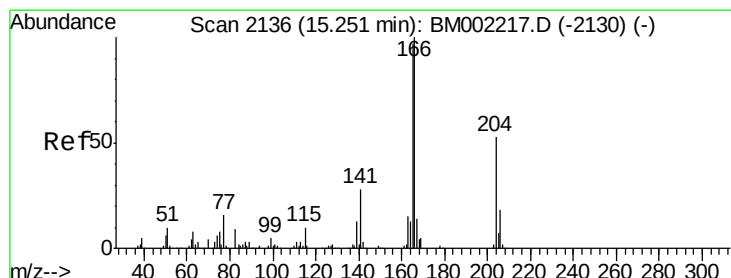
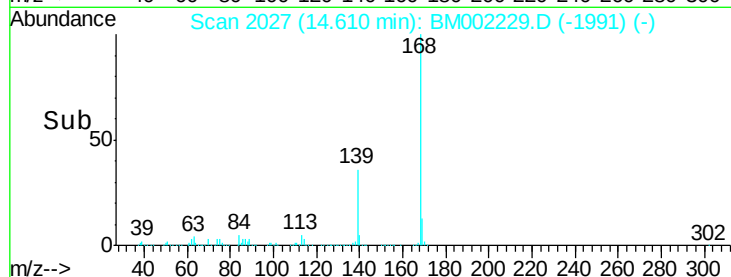
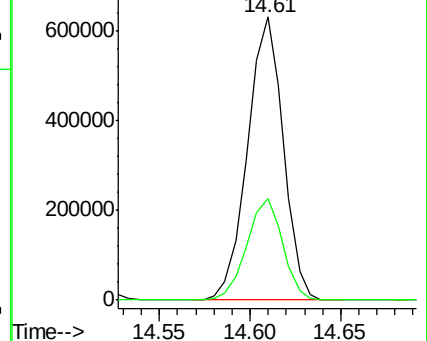
168 100

139 35.8 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: 56.46 ng/ul

RT: 15.26 min Scan# 2138

Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

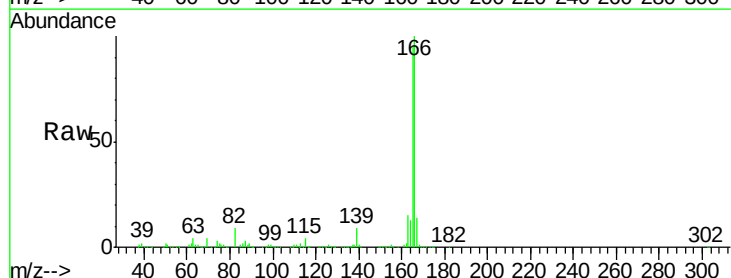
Tgt Ion:166 Resp: 1152825

Ion Ratio Lower Upper

166 100

165 95.0 76.0 114.0

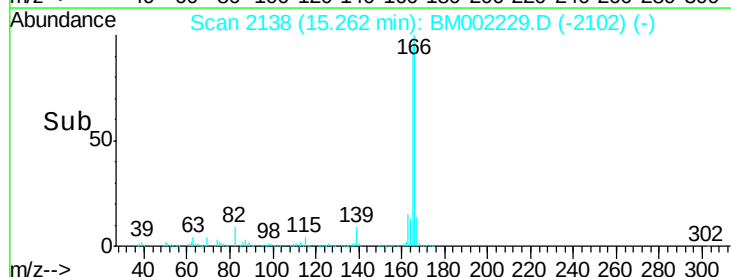
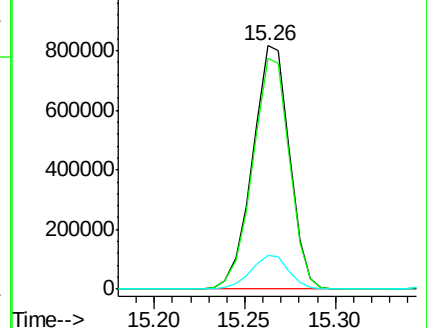
167 13.8 10.5 15.7

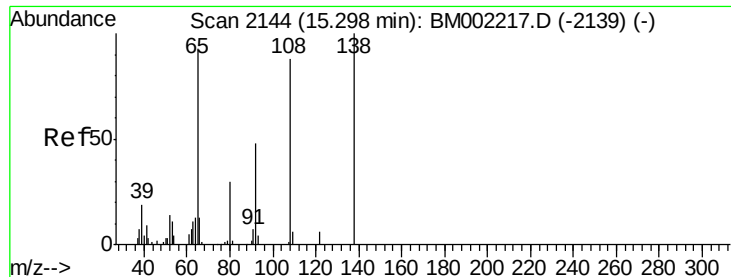


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

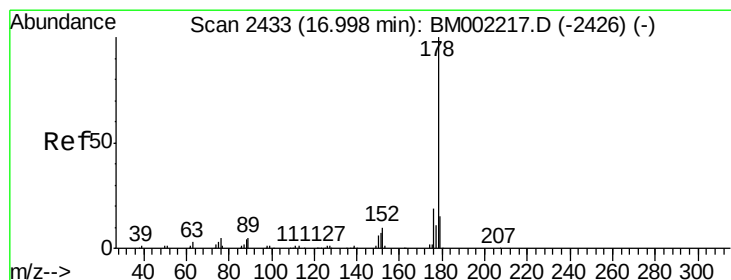
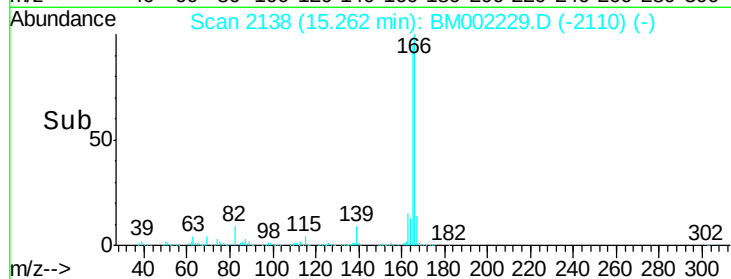
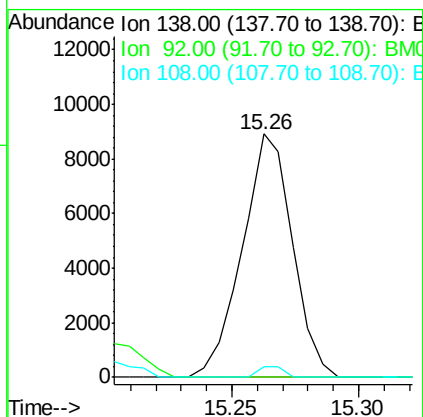
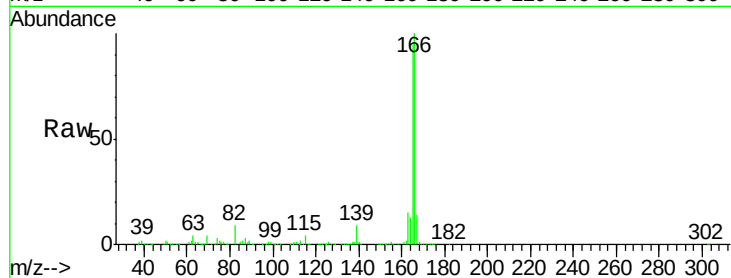




#61
 4-Nitroaniline
 Concen: 3.21 ng/ul
 RT: 15.26 min Scan# 2138
 Delta R.T. -0.04 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

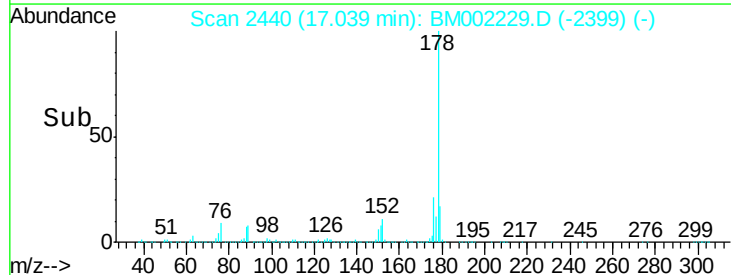
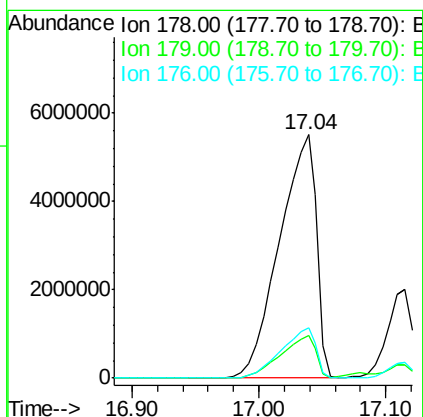
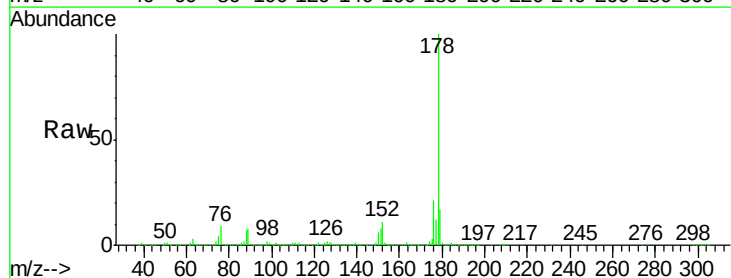
Instrument :
 BNA_M
 ClientSampleId :
 C01S3RE

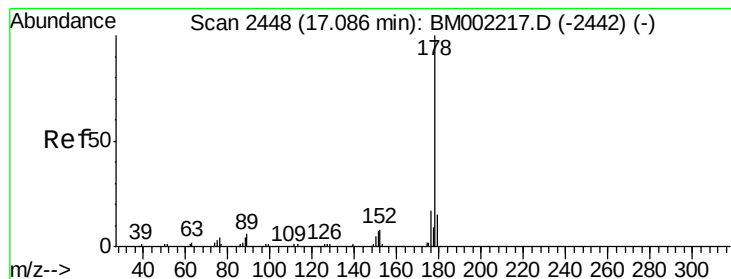
Tgt Ion:138 Resp: 12310
 Ion Ratio Lower Upper
 138 100
 92 0.0 37.9 56.9#
 108 4.2 70.4 105.6#



#70
 Phenanthrene
 Concen: 371.29 ng/ul
 RT: 17.04 min Scan# 2440
 Delta R.T. 0.04 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

Tgt Ion:178 Resp:11189316
 Ion Ratio Lower Upper
 178 100
 179 17.3 12.2 18.4
 176 20.7 14.6 21.8





#72

Anthracene

Concen: 88.98 ng/ul

RT: 17.12 min Scan# 2453

Delta R.T. 0.03 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

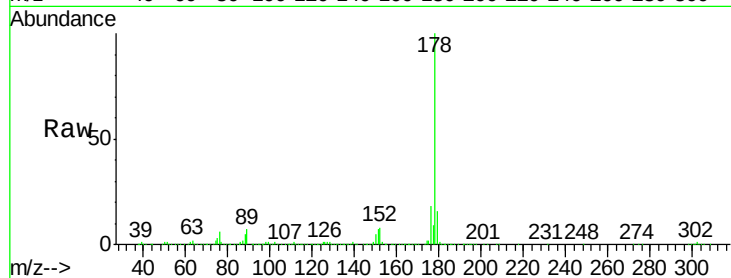
Tgt Ion:178 Resp: 2740839

Ion Ratio Lower Upper

178 100

179 15.5 12.2 18.2

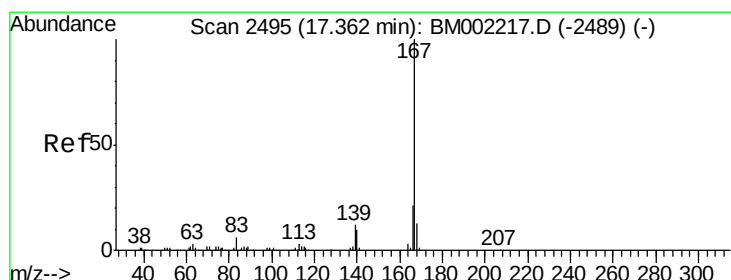
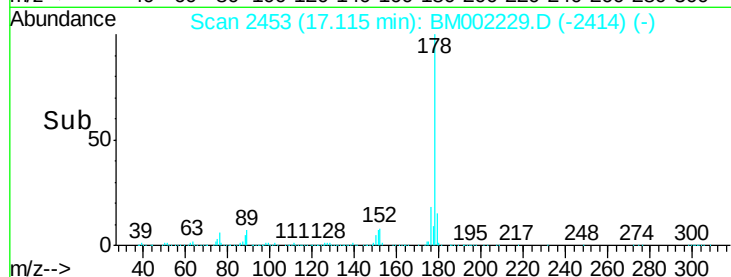
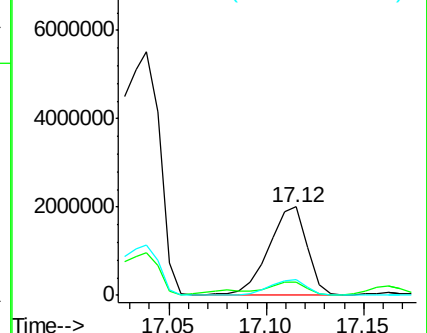
176 17.6 13.8 20.6



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: 54.91 ng/ul

RT: 17.38 min Scan# 2498

Delta R.T. 0.02 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

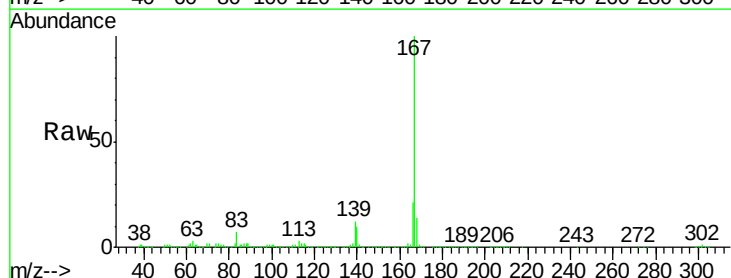
Tgt Ion:167 Resp: 1409496

Ion Ratio Lower Upper

167 100

166 20.6 16.7 25.1

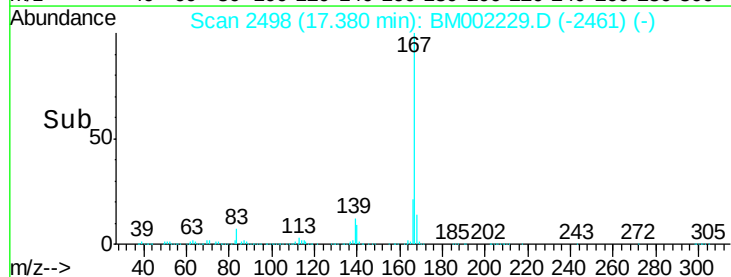
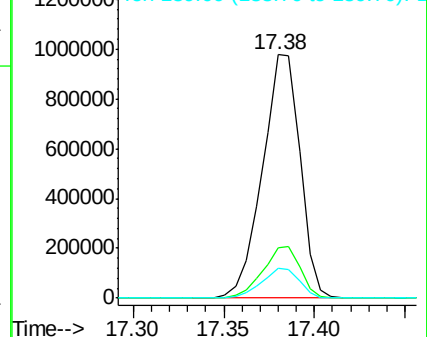
139 12.2 9.4 14.2

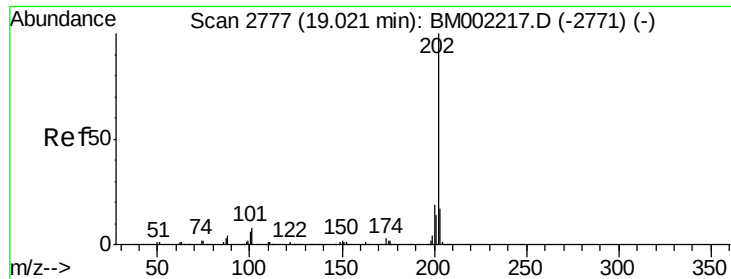


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#77

Fluoranthene

Concen: 1.62 ng/ul

RT: 19.19 min Scan# 2806

Delta R.T. 0.17 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

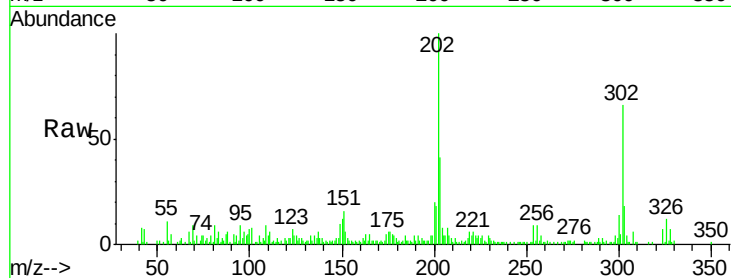
Tgt Ion:202 Resp: 53576

Ion Ratio Lower Upper

202 100

101 7.9 6.2 9.2

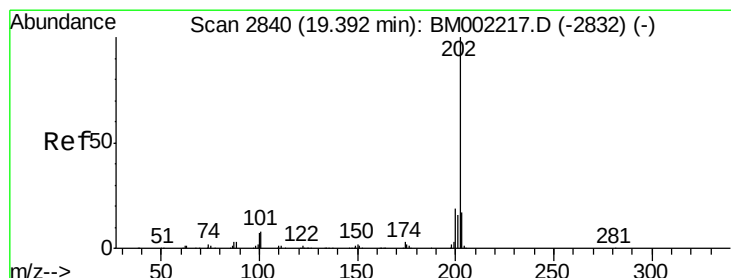
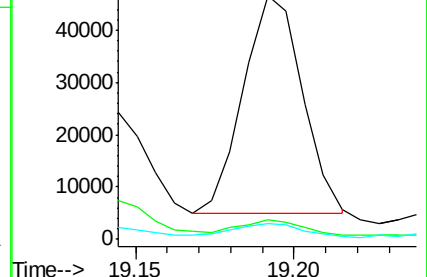
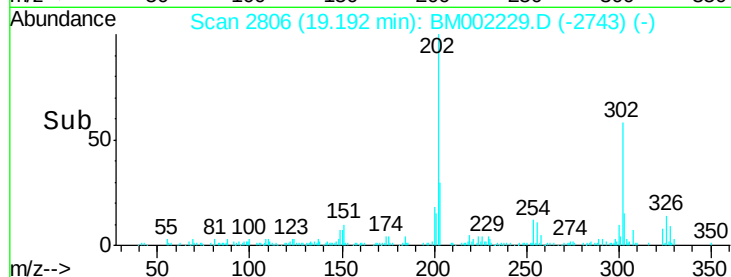
100 6.6 4.8 7.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#80

Pyrene

Concen: 277.81 ng/ul

RT: 19.44 min Scan# 2848

Delta R.T. 0.05 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

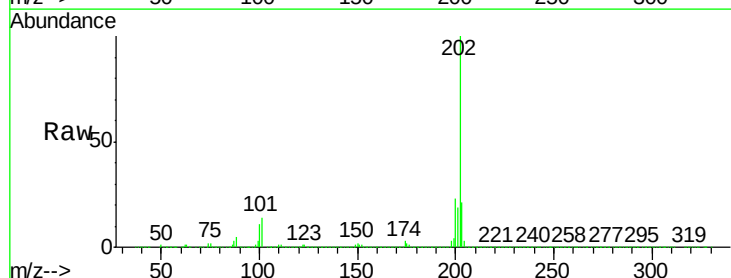
Tgt Ion:202 Resp:13185234

Ion Ratio Lower Upper

202 100

101 13.8 7.0 10.6#

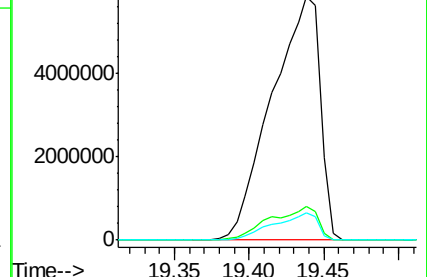
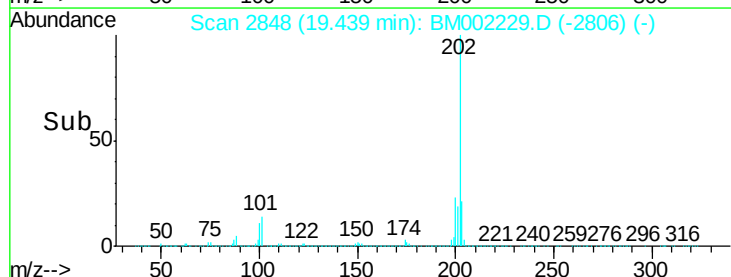
100 11.3 5.8 8.8#

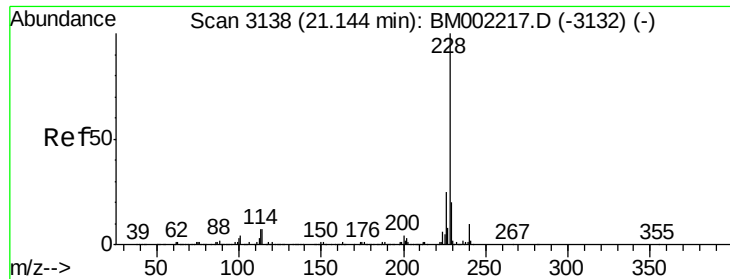


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#83

Benzo(a)anthracene

Concen: 185.10 ng/ul

RT: 21.18 min Scan# 3144

Delta R.T. 0.04 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampled :

C01S3RE

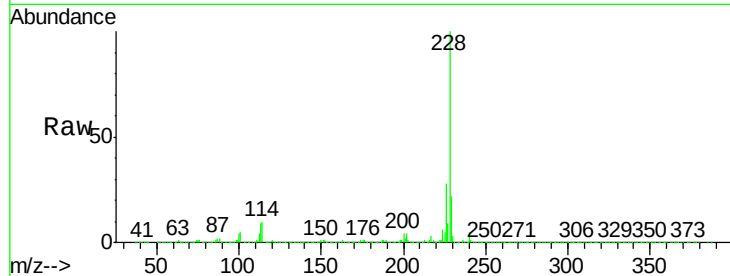
Tgt Ion:228 Resp: 8007300

Ion Ratio Lower Upper

228 100

229 22.2 15.9 23.9

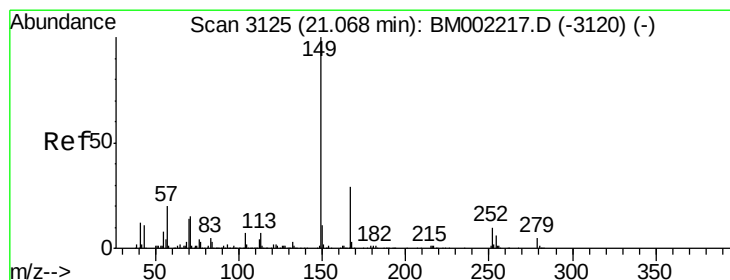
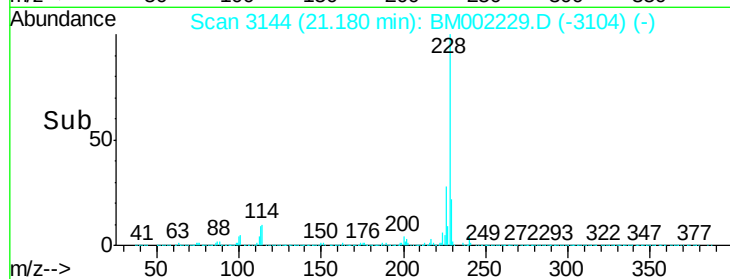
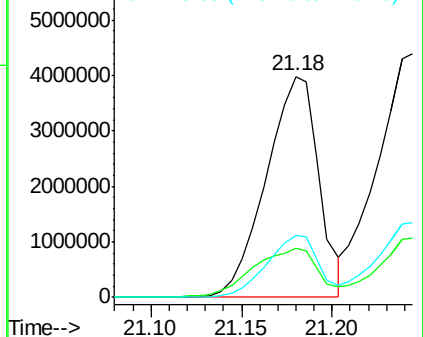
226 28.3 20.6 31.0



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: 1.26 ng/ul

RT: 21.08 min Scan# 3127

Delta R.T. 0.01 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

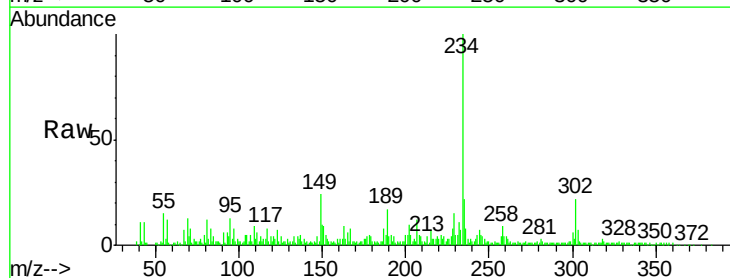
Tgt Ion:149 Resp: 30567

Ion Ratio Lower Upper

149 100

167 32.6 23.0 34.4

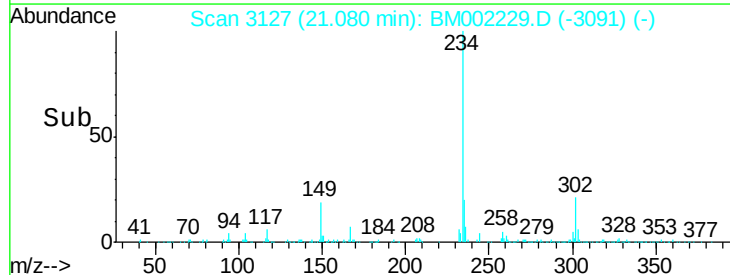
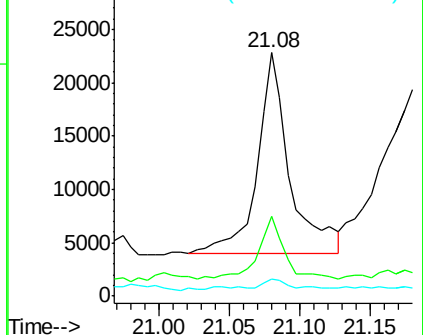
279 7.2 4.0 6.0#

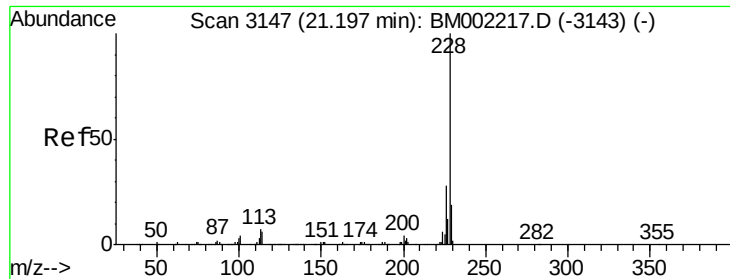


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

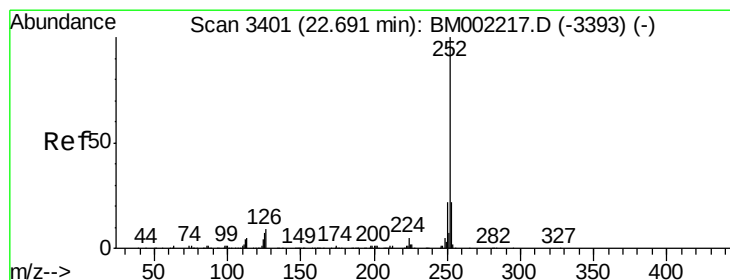
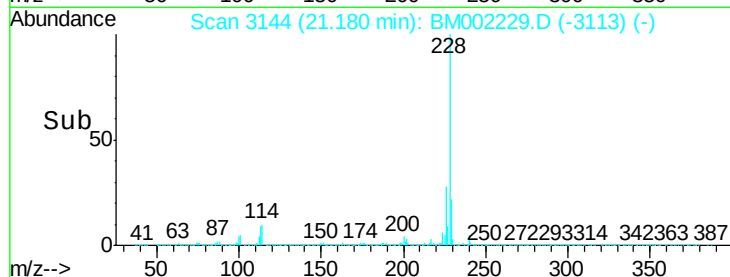
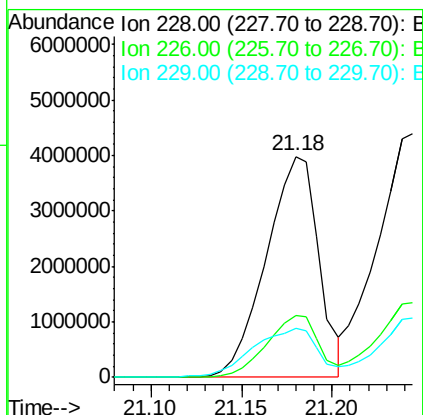
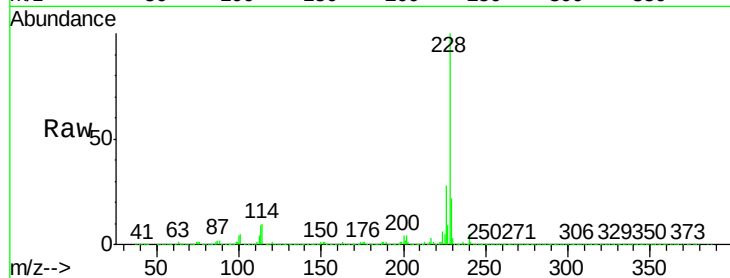




#85
 Chrysene
 Concen: 201.05 ng/ul
 RT: 21.18 min Scan# 3144
 Delta R.T. -0.02 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

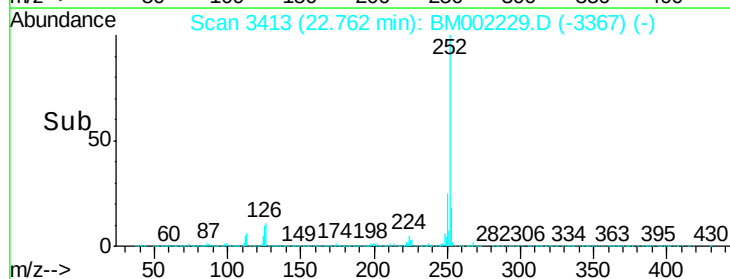
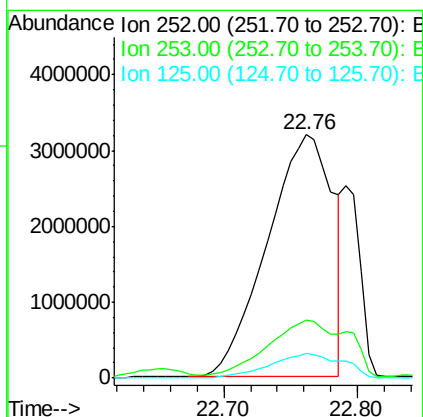
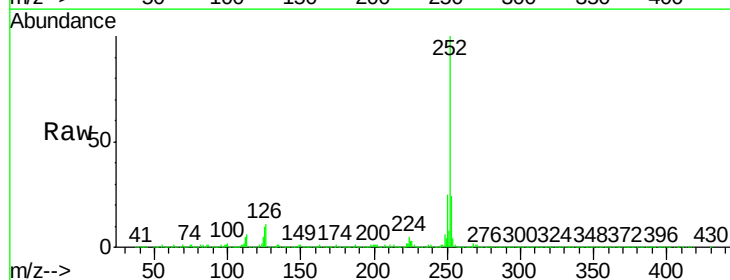
Instrument :
 BNA_M
 ClientSampleId :
 C01S3RE

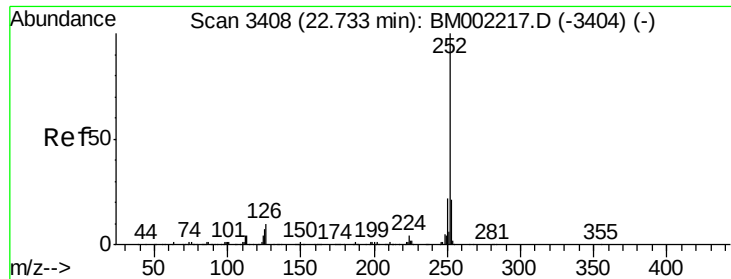
Tgt Ion:228 Resp: 8007300
 Ion Ratio Lower Upper
 228 100
 226 28.3 22.2 33.4
 229 22.2 15.5 23.3



#88
 Benzo(b)fluoranthene
 Concen: 256.93 ng/ul
 RT: 22.76 min Scan# 3413
 Delta R.T. 0.07 min
 Lab File: BM002229.D
 Acq: 05 Aug 2015 02:56

Tgt Ion:252 Resp:10853717
 Ion Ratio Lower Upper
 252 100
 253 23.7 17.4 26.0
 125 9.9 5.4 8.2#





#89

Benzo(k)fluoranthene

Concen: 105.24 ng/ul

RT: 22.76 min Scan# 3413

Delta R.T. 0.03 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

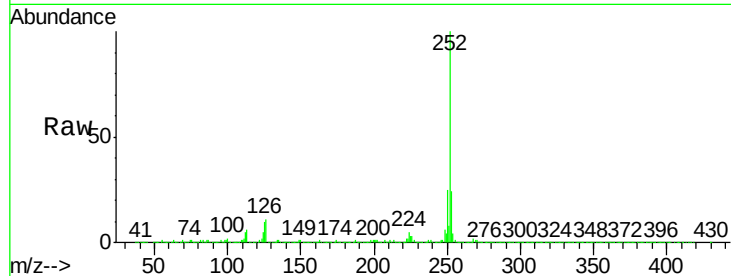
Tgt Ion:252 Resp: 4305357

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

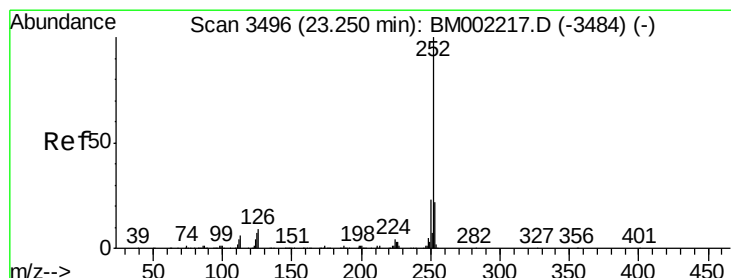
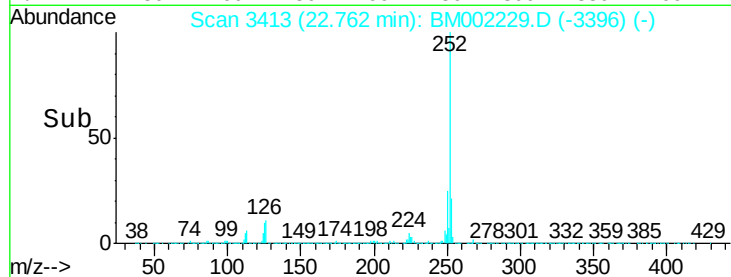
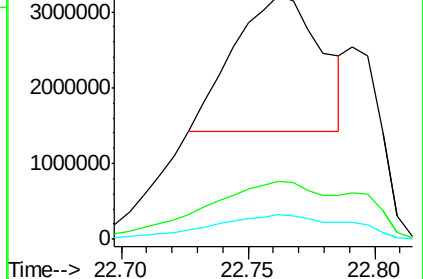
125 9.9 5.6 8.4#



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: 183.87 ng/ul

RT: 23.33 min Scan# 3510

Delta R.T. 0.08 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

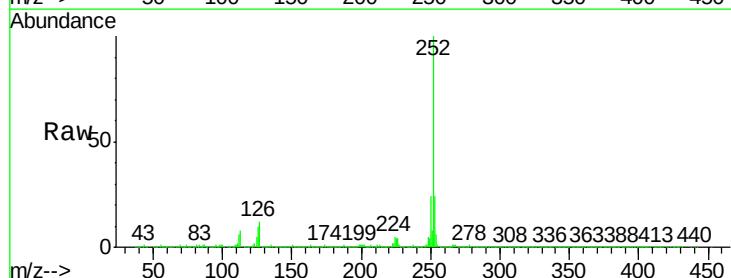
Tgt Ion:252 Resp: 7418185

Ion Ratio Lower Upper

252 100

253 24.2 17.4 26.0

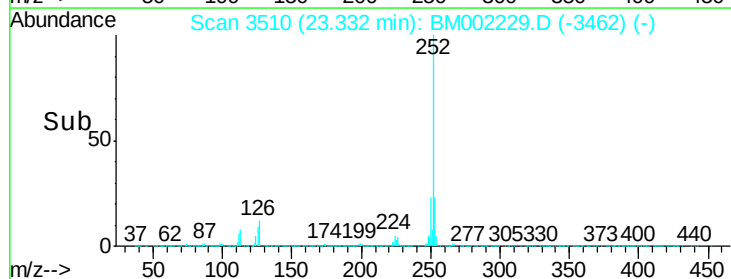
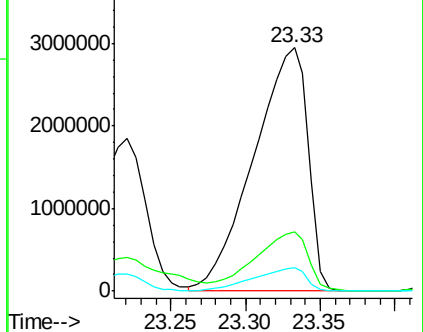
125 9.7 6.1 9.1#

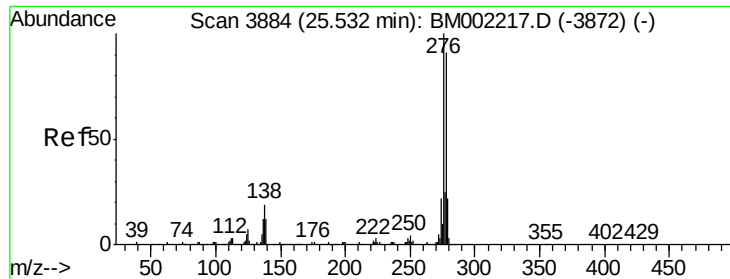


Abundance Ion 252.00 (251.70 to 252.70): E

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: 107.64 ng/ul

RT: 25.67 min Scan# 3907

Delta R.T. 0.14 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

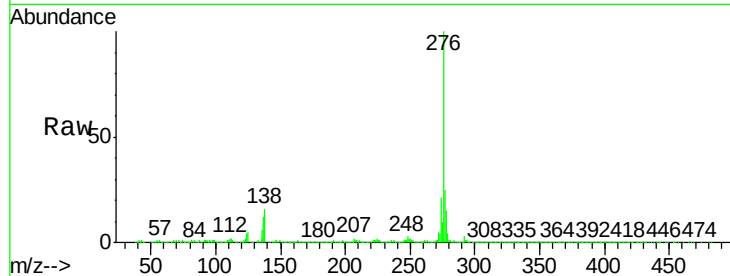
Tgt Ion:276 Resp: 4893595

Ion Ratio Lower Upper

276 100

138 16.5 15.4 23.0

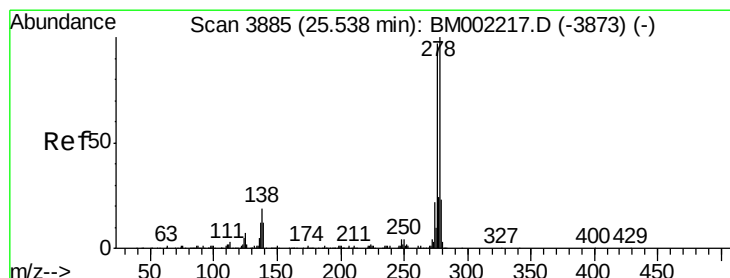
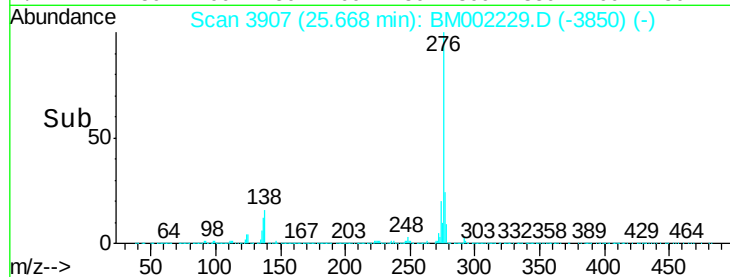
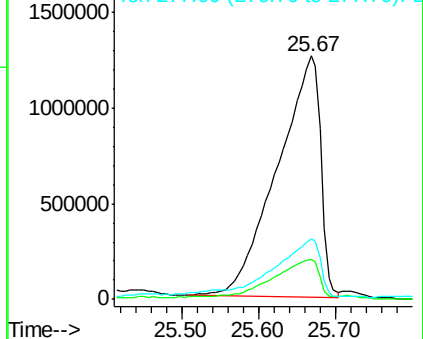
277 24.7 20.2 30.2



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: 38.43 ng/ul

RT: 25.64 min Scan# 3903

Delta R.T. 0.11 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

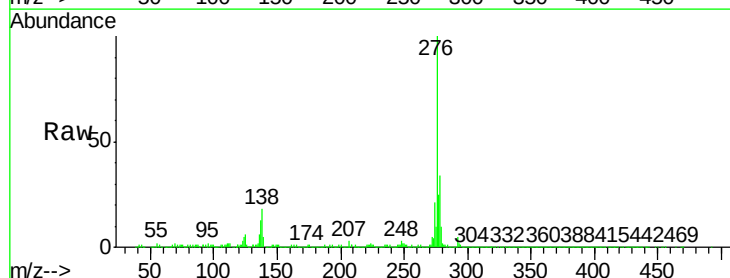
Tgt Ion:278 Resp: 1489796

Ion Ratio Lower Upper

278 100

139 16.1 10.4 15.6#

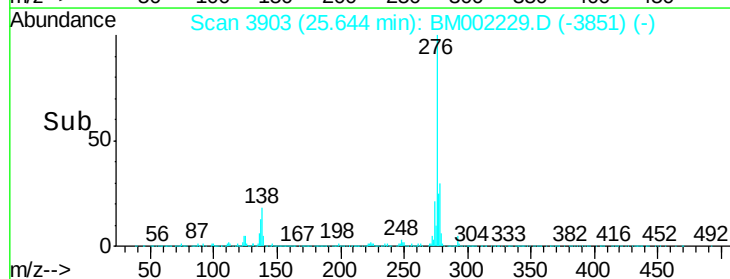
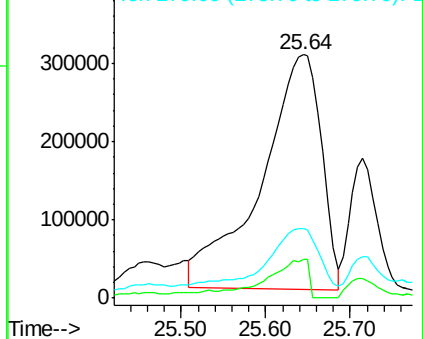
279 28.4 17.9 26.9#

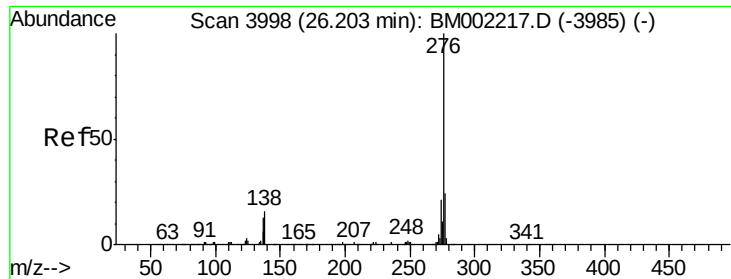


Abundance Ion 278.00 (277.70 to 278.70): E

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: 116.18 ng/ul

RT: 26.36 min Scan# 4025

Delta R.T. 0.16 min

Lab File: BM002229.D

Acq: 05 Aug 2015 02:56

Instrument :

BNA_M

ClientSampleId :

C01S3RE

Tgt Ion:276 Resp: 4398738

Ion Ratio Lower Upper

276 100

138 18.1 12.5 18.7

277 27.1 19.4 29.0

