

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101615\
 Data File : BM002934.D
 Acq On : 16 Oct 2015 14:53
 Operator : UM/IZ
 Sample : G4037-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-111

Quant Time: Oct 16 23:01:32 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM101515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 16 22:59:32 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.66	152	91052	5.00	ng	0.00
7) Naphthalene-d8	11.51	136	388271	5.00	ng	0.02
13) Acenaphthene-d10	15.23	164	202381	5.00	ng	0.00
19) Phenanthrene-d10	17.95	188	514574	5.00	ng	0.00
26) Chrysene-d12	22.03	240	409879	5.00	ng	0.00
35) Perylene-d12	24.60	264	348166	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.13	112	42519	2.50	ng	-0.02
5) Phenol-d6	7.79	99	40048	1.84	ng	0.00
8) Nitrobenzene-d5	9.86	82	62062	3.34	ng	0.00
14) 2,4,6-Tribromophenol	16.71	330	59101	7.47	ng	0.00
15) 2-Fluorobiphenyl	13.87	172	243707	3.76	ng	0.00
29) Terphenyl-d14	20.48	244	271415	4.42	ng	0.00

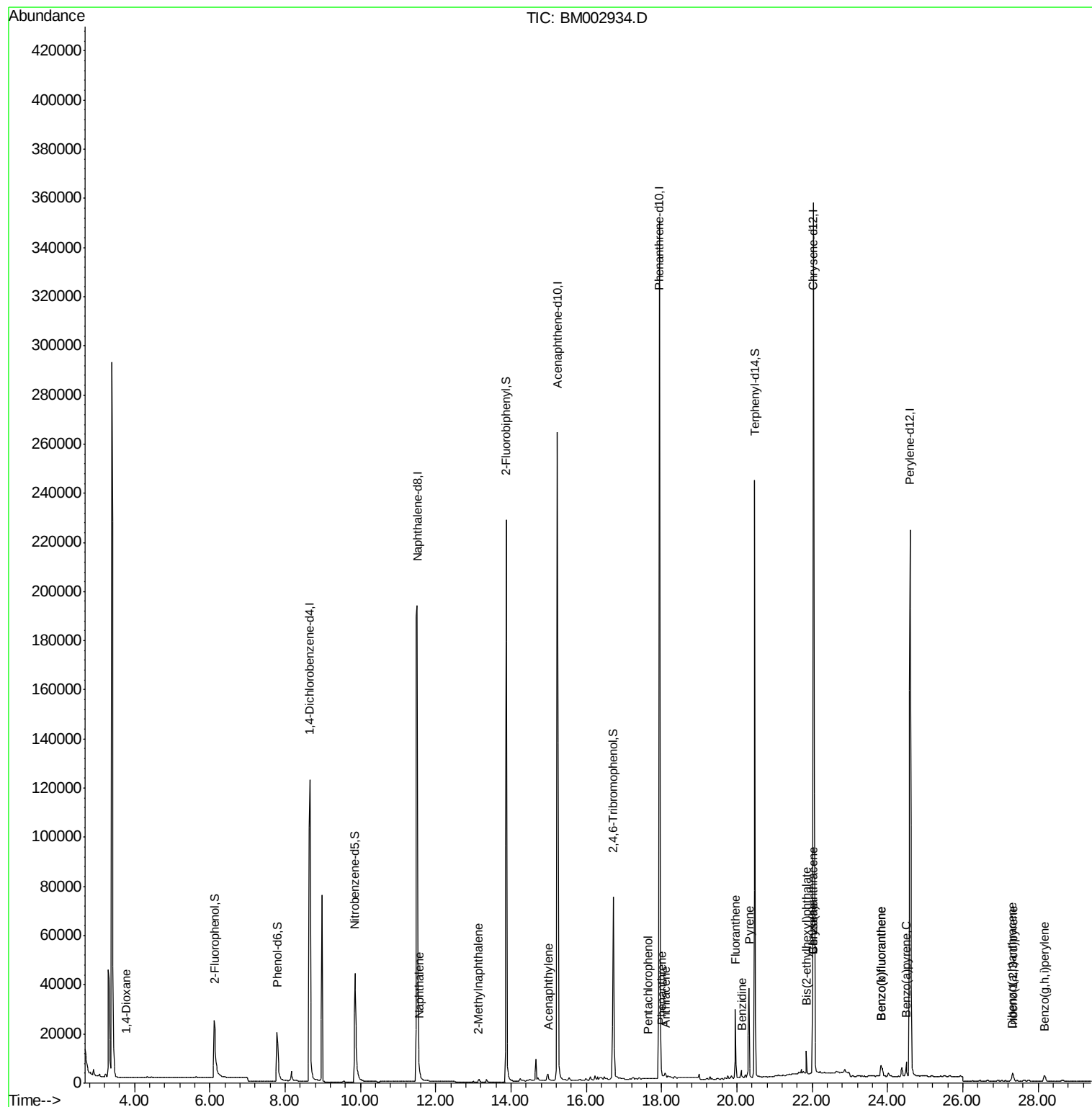
Target Compounds						Qvalue
2) 1,4-Dioxane	3.78	88	220	0.03	ng	# 49
10) Naphthalene	11.56	128	6418	0.07	ng	# 94
12) 2-Methylnaphthalene	13.14	142	1327	0.02	ng	# 85
16) Acenaphthylene	14.98	152	5343	0.06	ng	# 74
21) Hexachlorobenzene	17.31	284	26	Below Cal		# 1
22) Pentachlorophenol	17.64	266	274	0.35	ng	# 83
23) Phenanthrene	18.00	178	3190	0.03	ng	# 81
24) Anthracene	18.10	178	3590	0.03	ng	# 81
25) Fluoranthene	19.96	202	28450	0.21	ng	# 99
27) Benzidine	20.13	184	2530	0.19	ng	# 21
28) Pyrene	20.32	202	39730	0.33	ng	# 94
30) Benzo(a)anthracene	22.01	228	14872	0.13	ng	# 88
32) Chrysene	22.01	228	14762	0.13	ng	# 91
33) Bis(2-ethylhexyl)phthalate	21.85	149	10577	0.41	ng	# 92
34) Indeno(1,2,3-cd)pyrene	27.33	276	5413	0.05	ng	# 96
36) Benzo(b)fluoranthene	23.83	252	12701	0.13	ng	# 70
37) Benzo(k)fluoranthene	23.83	252	12702	0.13	ng	# 71
38) Benzo(a)pyrene	24.50	252	9126	0.10	ng	# 82
39) Dibenzo(a,h)anthracene	27.32	278	2492	0.03	ng	# 62
40) Benzo(a,h,i)perylene	28.17	276	5551	0.06	ng	# 84

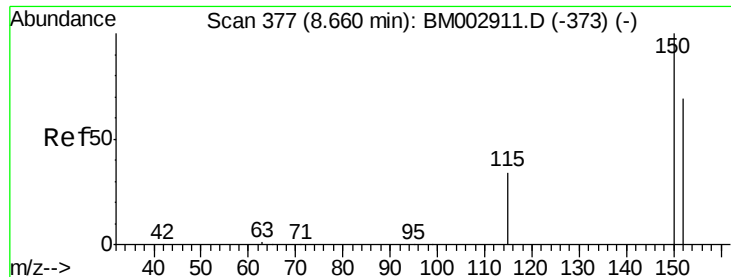
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.66 min Scan# 377

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

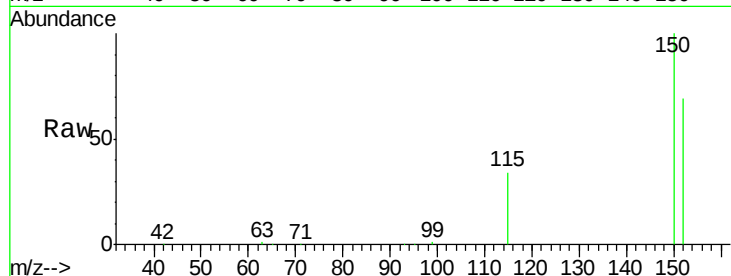
Tot Ion:152 Resp: 91052

Ion Ratio Lower Upper

152 100

150 143.9 113.0 169.6

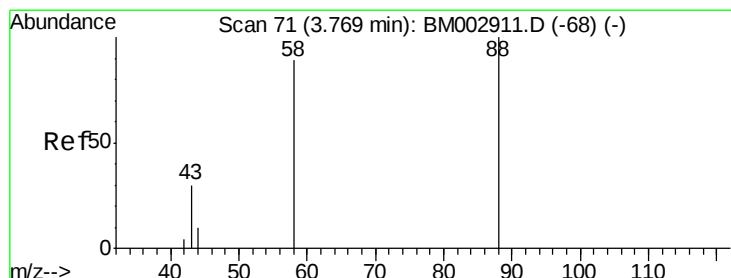
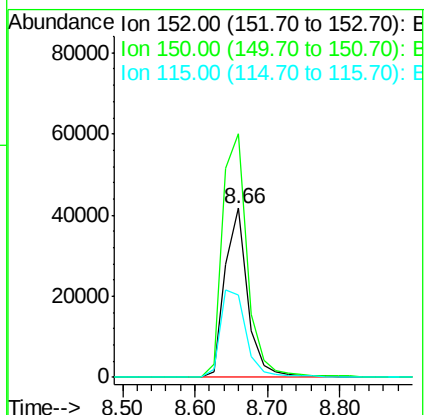
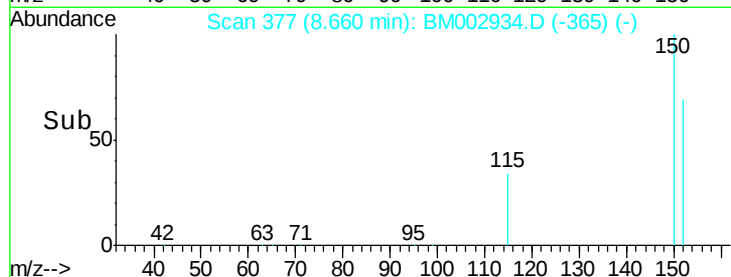
115 48.8 37.9 56.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.03 ng

RT: 3.78 min Scan# 72

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

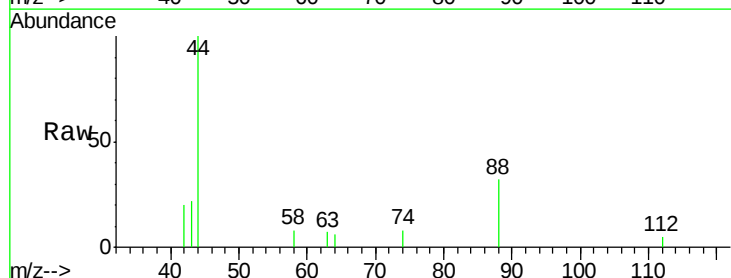
Tgt Ion: 88 Resp: 220

Ion Ratio Lower Upper

88 100

58 22.7 56.7 85.1#

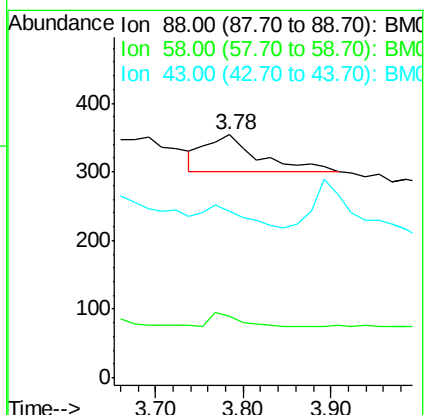
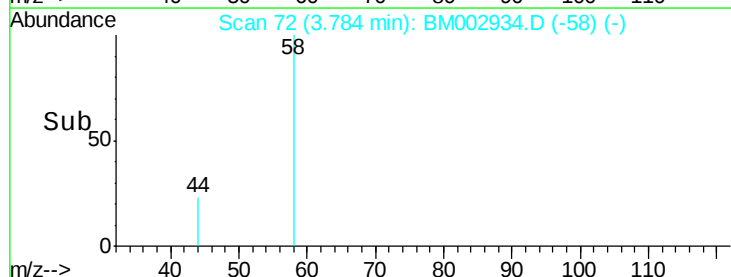
43 43.6 22.0 33.0#

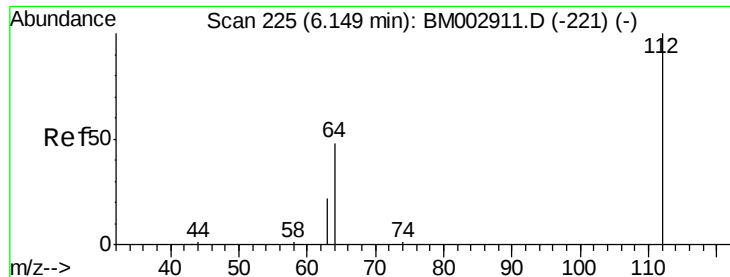


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#4

2-Fluorophenol

Concen: 2.50 ng

RT: 6.13 min Scan# 224

Delta R.T. -0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

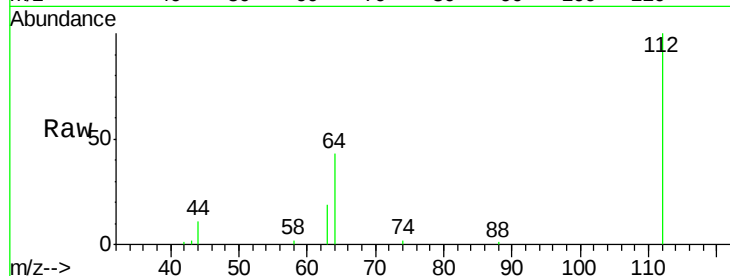
Tot Ion:112 Resp: 42519

Ion Ratio Lower Upper

112 100

64 51.8 42.0 63.0

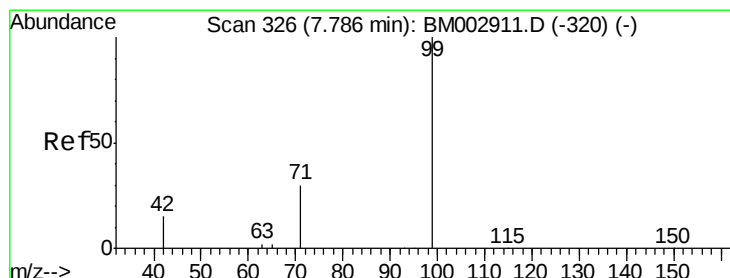
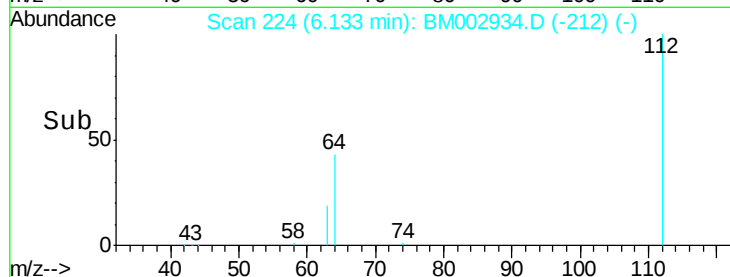
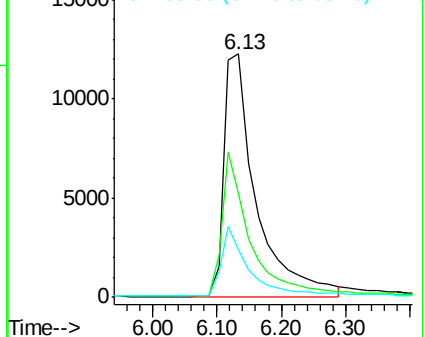
63 24.7 20.0 30.0



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#5

Phenol-d6

Concen: 1.84 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

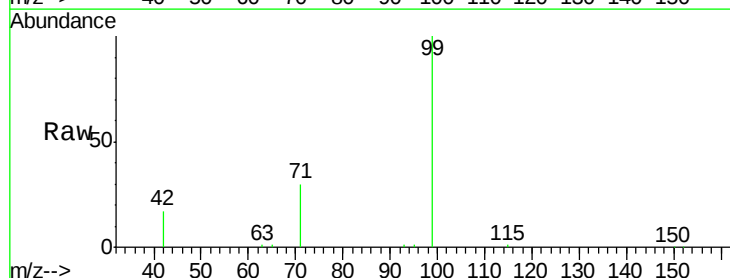
Tgt Ion: 99 Resp: 40048

Ion Ratio Lower Upper

99 100

42 15.2 12.4 18.6

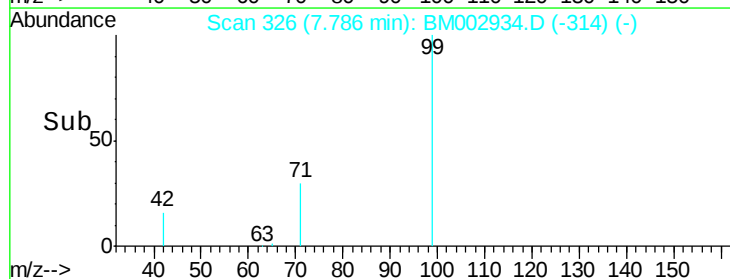
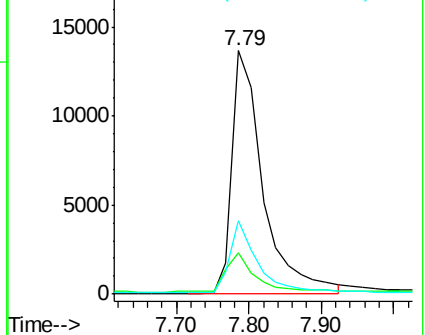
71 26.8 21.4 32.0

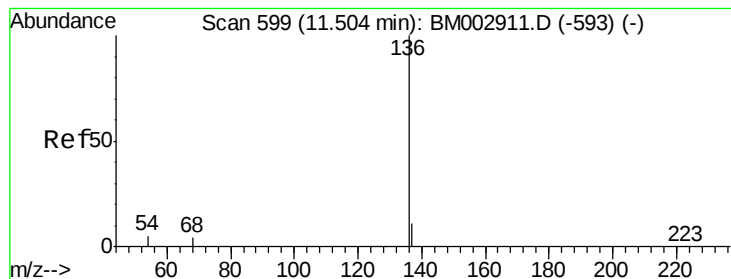


Abundance Ion 99.00 (98.70 to 99.70): BM

Ion 42.00 (41.70 to 42.70): BM

Ion 71.00 (70.70 to 71.70): BM





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.51 min Scan# 600

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

Tot Ion:136 Resp: 388271

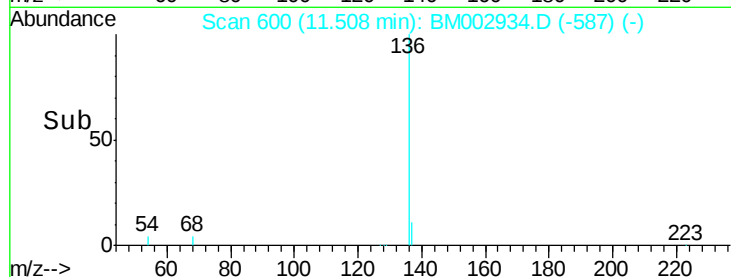
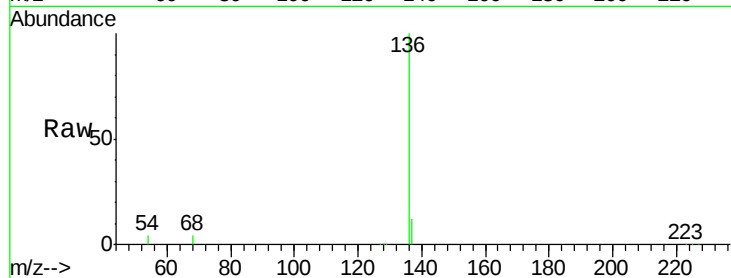
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 4.3 3.5 5.3

68 4.0 3.3 4.9



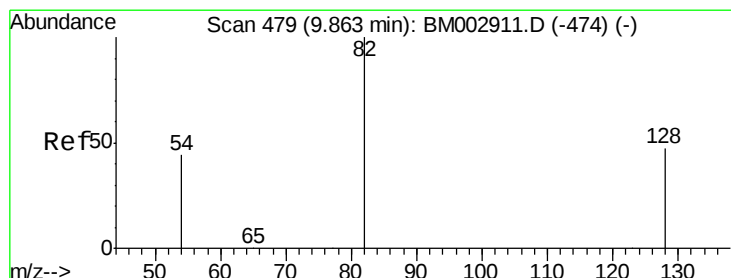
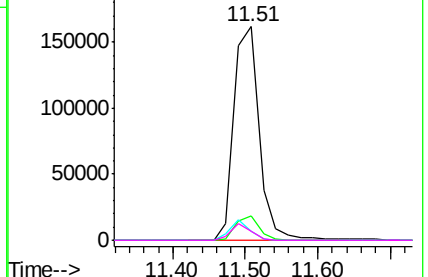
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM

Time-->



#8

Nitrobenzene-d5

Concen: 3.34 ng

RT: 9.86 min Scan# 479

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

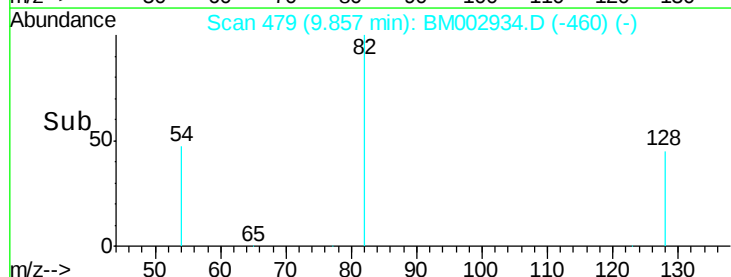
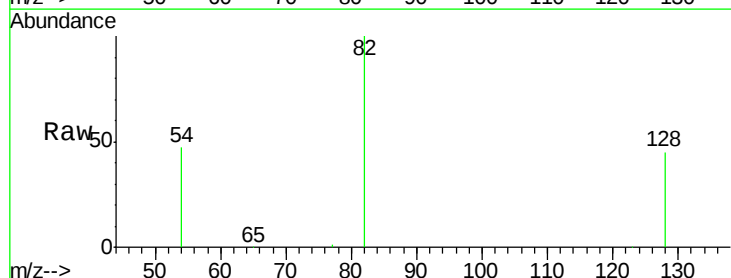
Tgt Ion: 82 Resp: 62062

Ion Ratio Lower Upper

82 100

128 44.9 34.1 51.1

54 47.3 42.6 63.8

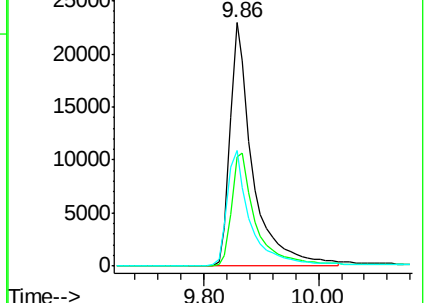


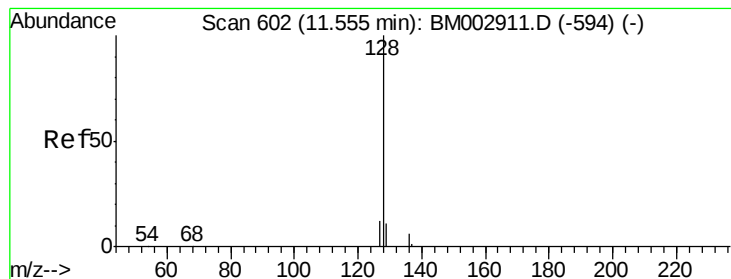
Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM

Time-->





#10

Naphthalene

Concen: 0.07 ng

RT: 11.56 min Scan# 603

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

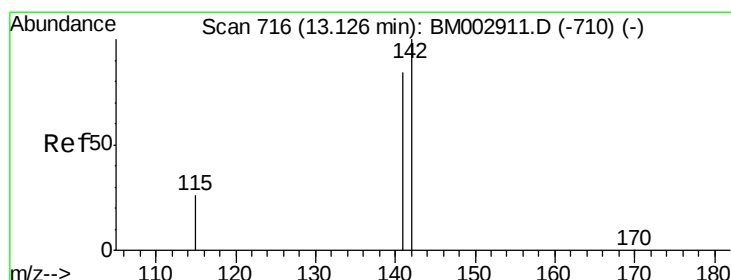
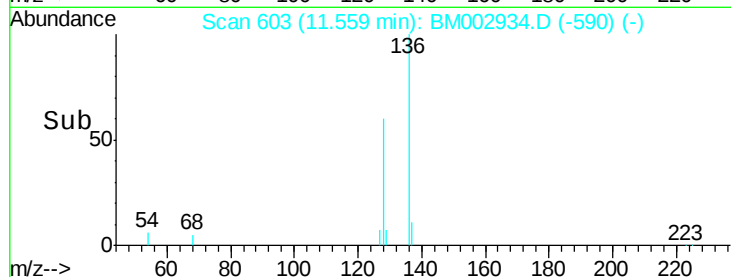
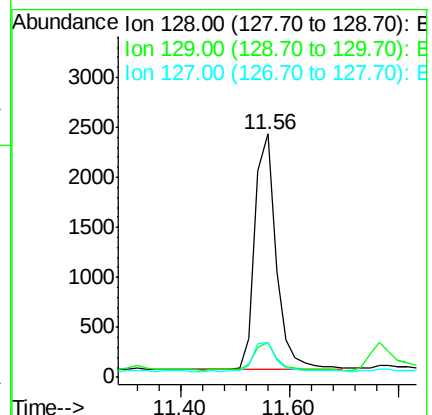
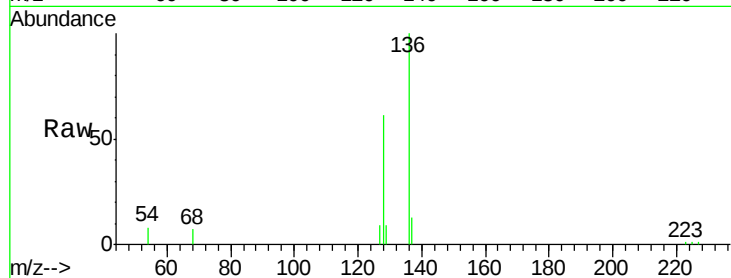
Tot Ion:128 Resp: 6418

Ion Ratio Lower Upper

128 100

129 14.4 9.4 14.2#

127 14.2 9.6 14.4



#12

2-Methylnaphthalene

Concen: 0.02 ng

RT: 13.14 min Scan# 719

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

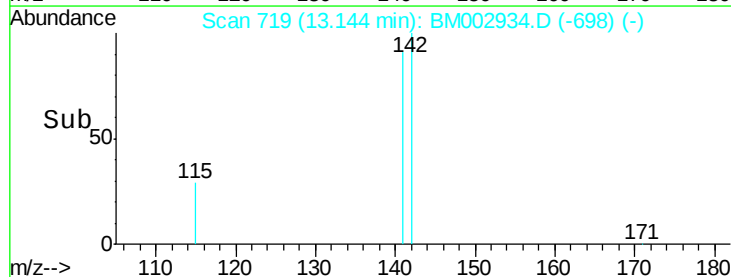
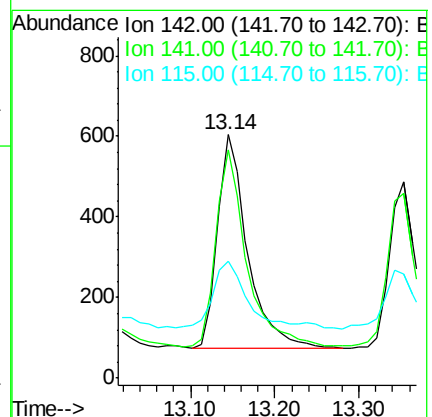
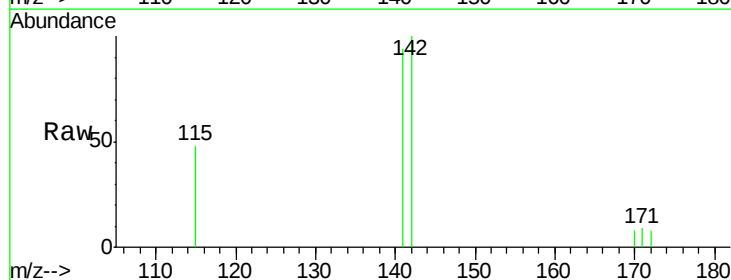
Tgt Ion:142 Resp: 1327

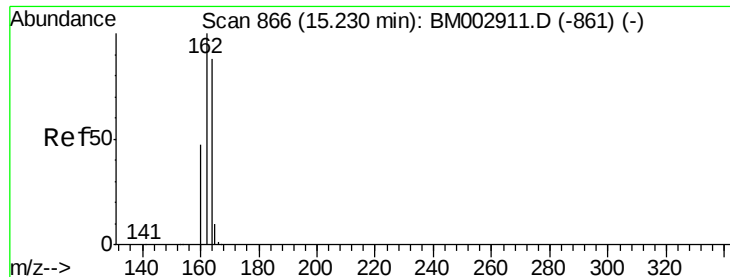
Ion Ratio Lower Upper

142 100

141 93.5 69.4 104.0

115 48.2 22.7 34.1#





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.23 min Scan# 867

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

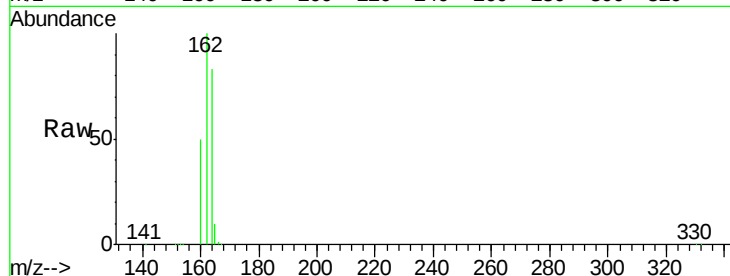
Tot Ion:164 Resp: 202381

Ion Ratio Lower Upper

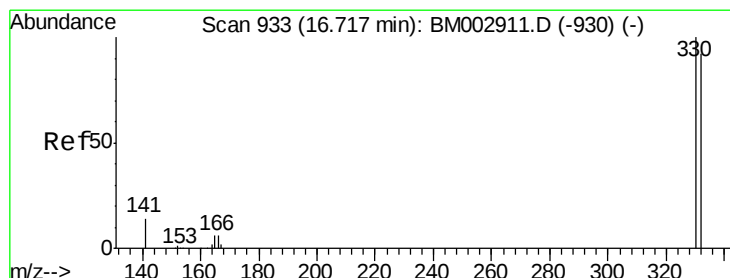
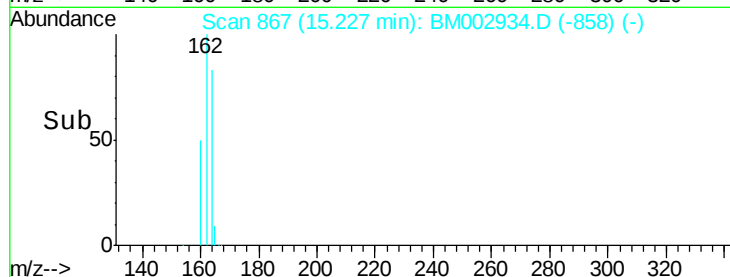
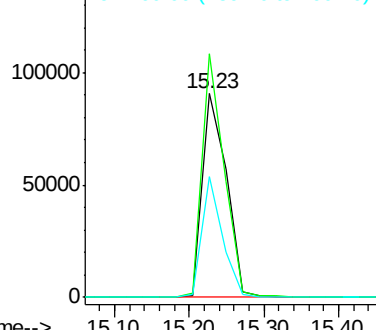
164 100

162 119.8 79.6 119.4#

160 59.7 33.1 49.7#



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 7.47 ng

RT: 16.71 min Scan# 934

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

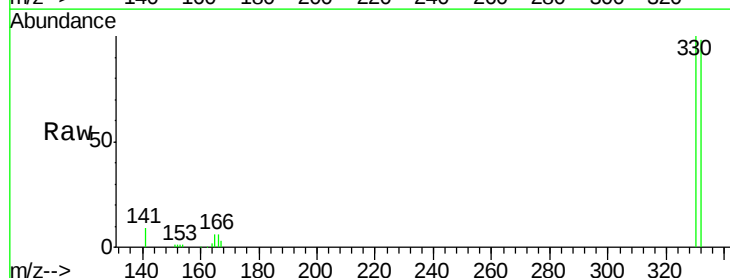
Tgt Ion:330 Resp: 59101

Ion Ratio Lower Upper

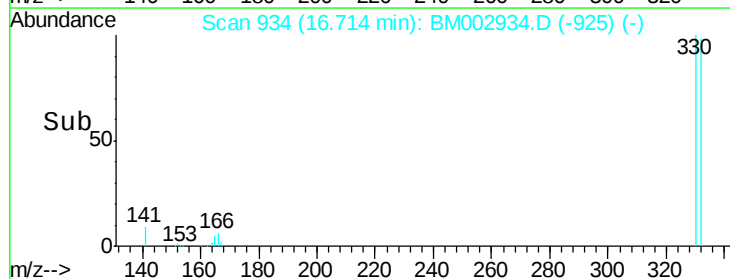
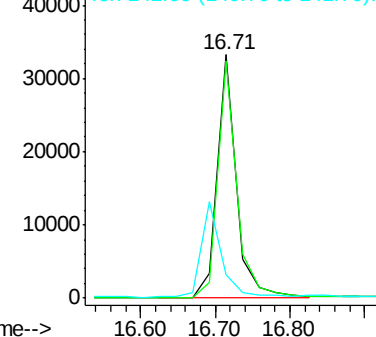
330 100

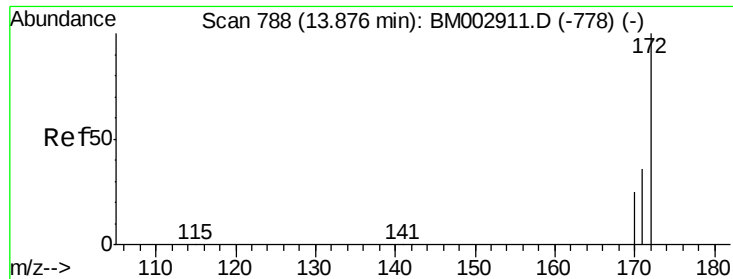
332 97.4 76.6 115.0

141 0.0 0.0 0.0



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

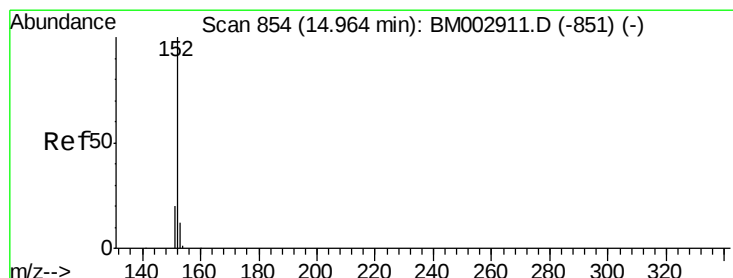
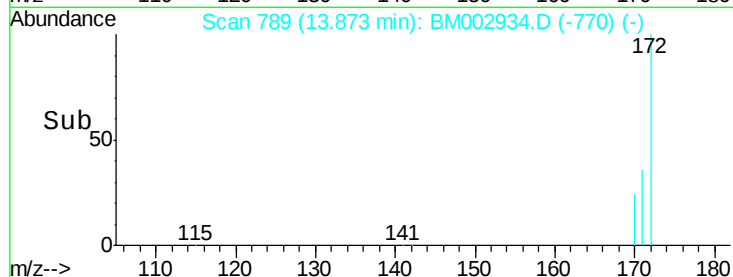
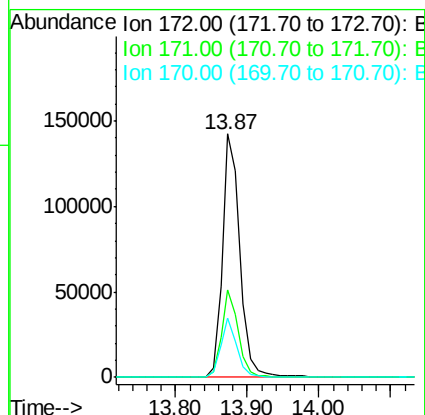
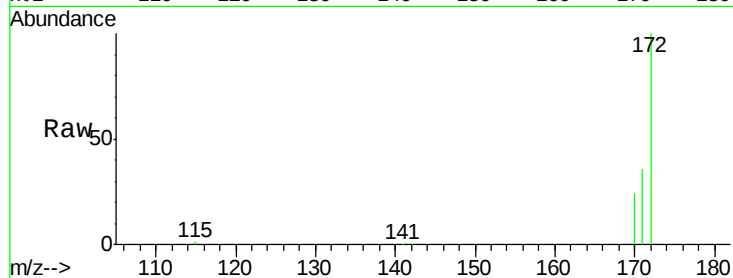




#15
2-Fluorobiphenyl
Concen: 3.76 ng
RT: 13.87 min Scan# 789
Delta R.T. -0.00 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

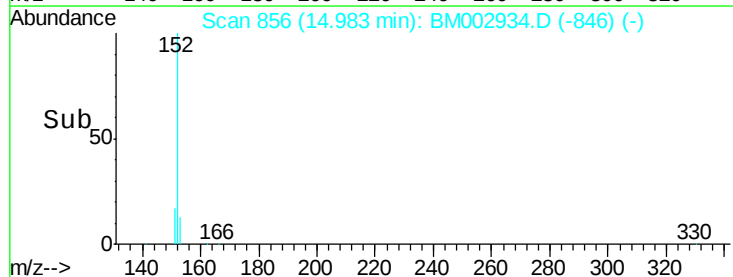
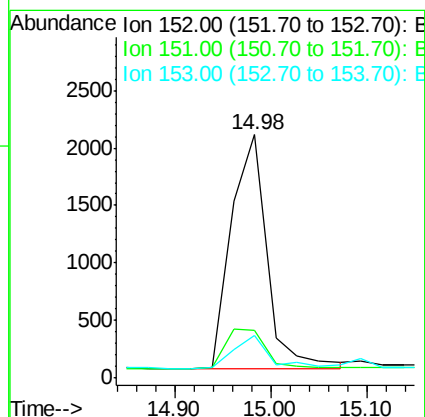
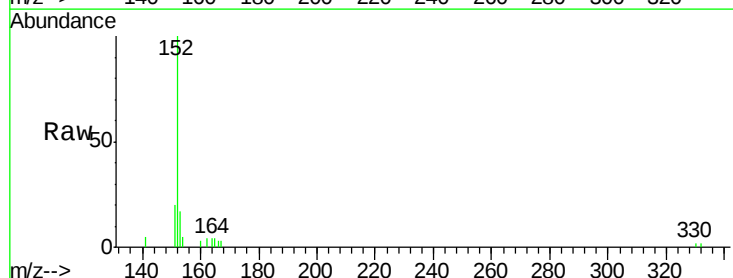
Instrument :
BNA_M
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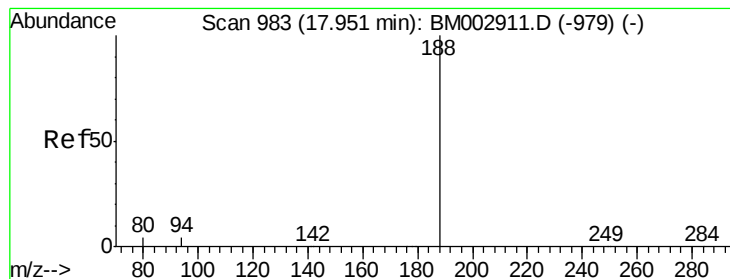
Tot Ion:172 Resp: 243707
Ion Ratio Lower Upper
172 100
171 36.1 26.1 39.1
170 24.1 15.7 23.5#



#16
Acenaphthylene
Concen: 0.06 ng
RT: 14.98 min Scan# 856
Delta R.T. 0.02 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

Tgt Ion:152 Resp: 5343
Ion Ratio Lower Upper
152 100
151 0.0 15.3 22.9#
153 14.2 10.5 15.7





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.95 min Scan# 984

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

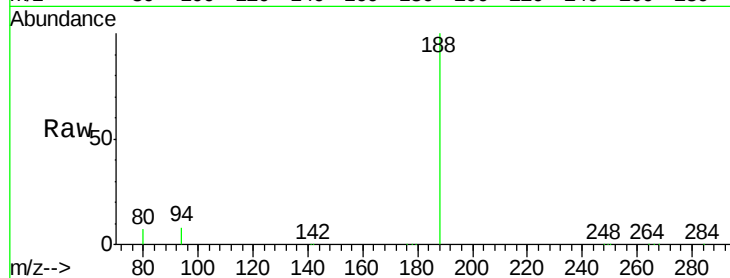
Tot Ion:188 Resp: 514574

Ion Ratio Lower Upper

188 100

94 7.5 15.2 22.8#

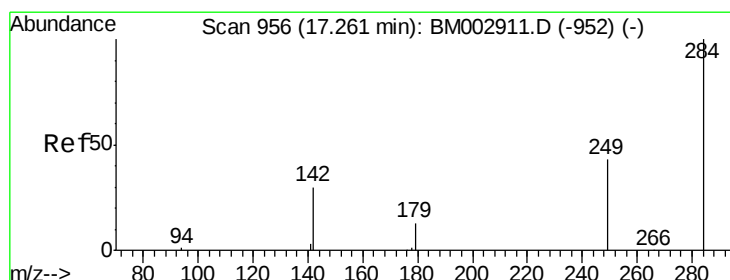
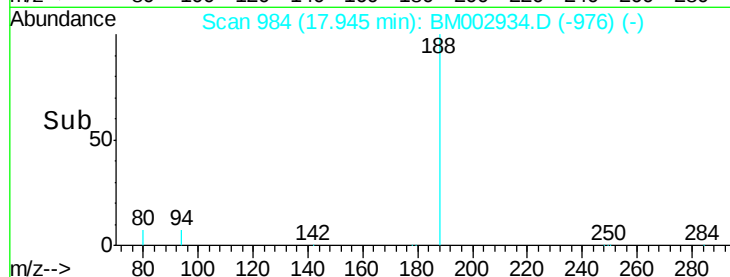
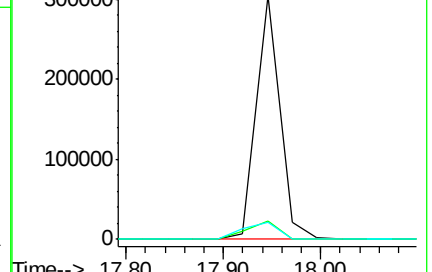
80 6.9 15.9 23.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#21

Hexachlorobenzene

Concen: Below Cal

RT: 17.31 min Scan# 959

Delta R.T. 0.05 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

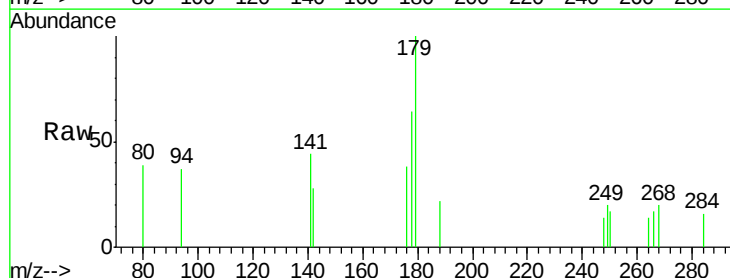
Tgt Ion:284 Resp: 26

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

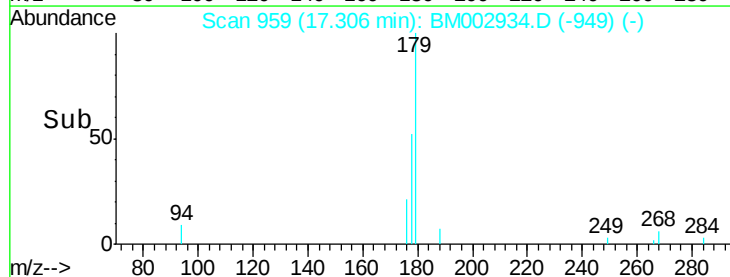
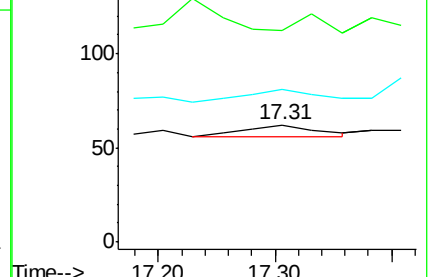
249 111.5 20.7 31.1#

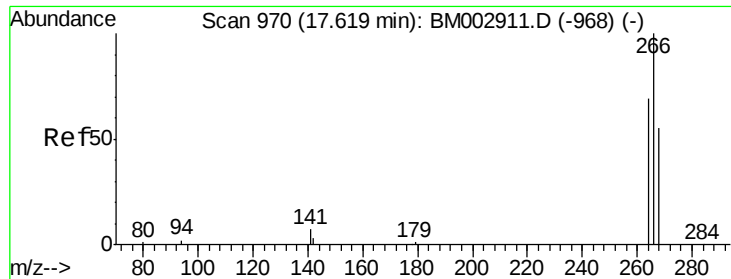


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

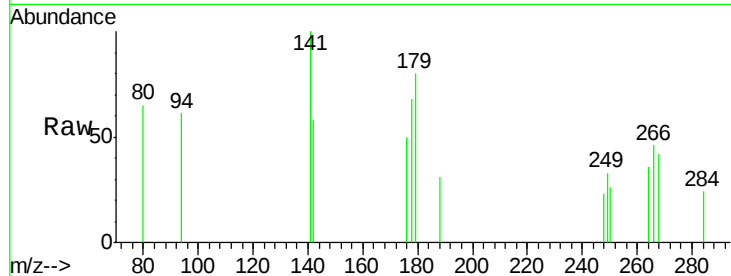




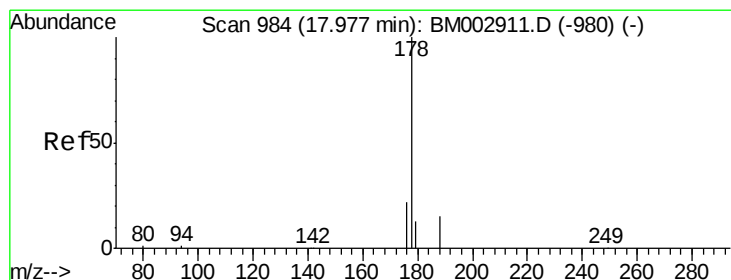
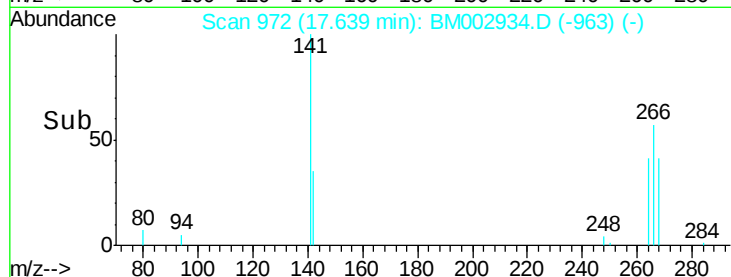
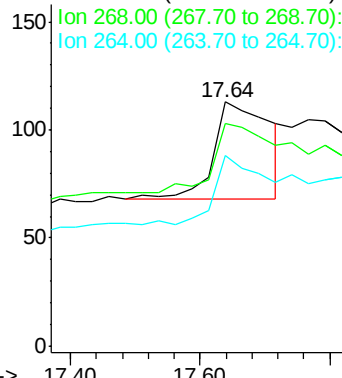
#22
 Pentachlorophenol
 Concen: 0.35 ng
 RT: 17.64 min Scan# 972
 Delta R.T. 0.03 min
 Lab File: BM002934.D
 Acq: 16 Oct 2015 14:53

Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-111

Tot Ion:266 Resp: 274
 Ion Ratio Lower Upper
 266 100
 268 91.2 58.3 87.5#
 264 77.9 54.2 81.2

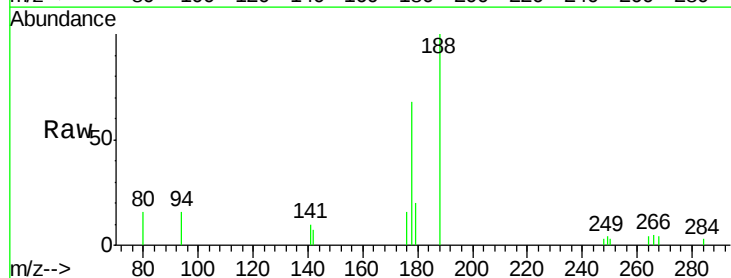


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

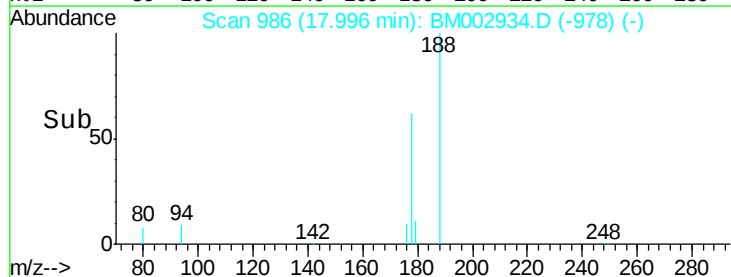
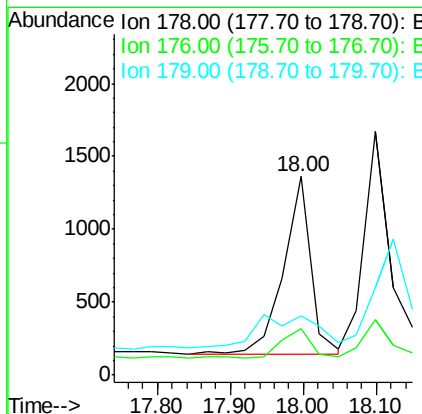


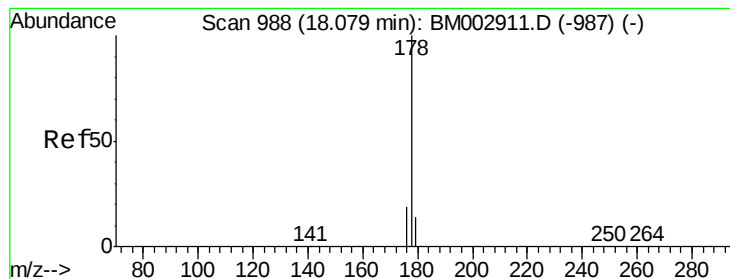
#23
 Phenanthrene
 Concen: 0.03 ng
 RT: 18.00 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: BM002934.D
 Acq: 16 Oct 2015 14:53

Tgt Ion:178 Resp: 3190
 Ion Ratio Lower Upper
 178 100
 176 17.0 14.6 21.8
 179 0.0 12.5 18.7#



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.03 ng

RT: 18.10 min Scan# 990

Delta R.T. 0.03 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

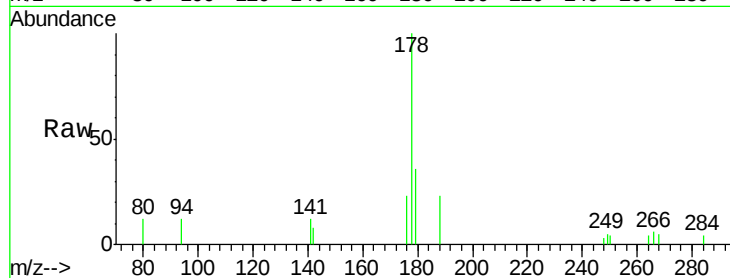
Tot Ion:178 Resp: 3590

Ion Ratio Lower Upper

178 100

176 18.4 13.9 20.9

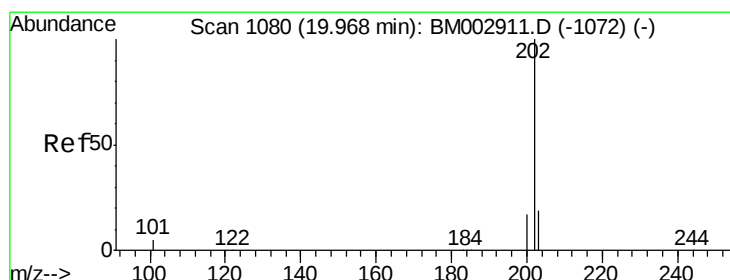
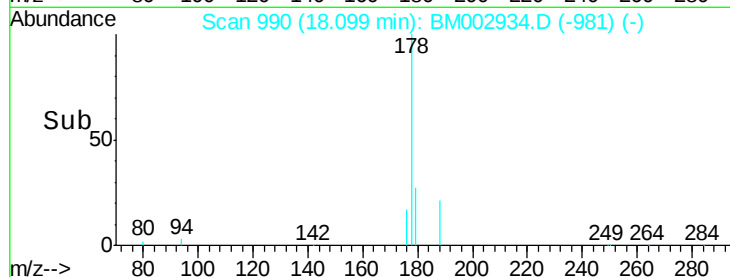
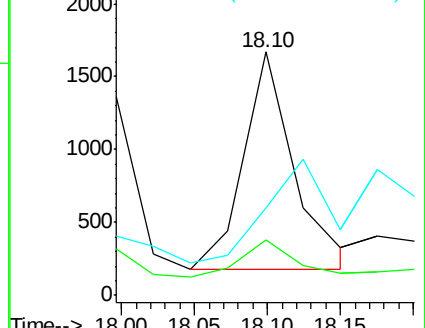
179 0.0 12.6 18.8#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene

Concen: 0.21 ng

RT: 19.96 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

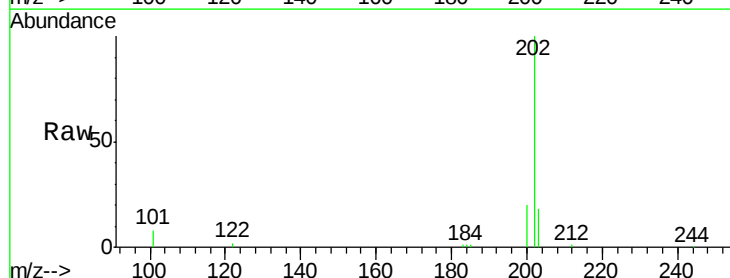
Tgt Ion:202 Resp: 28450

Ion Ratio Lower Upper

202 100

101 13.9 11.0 16.6

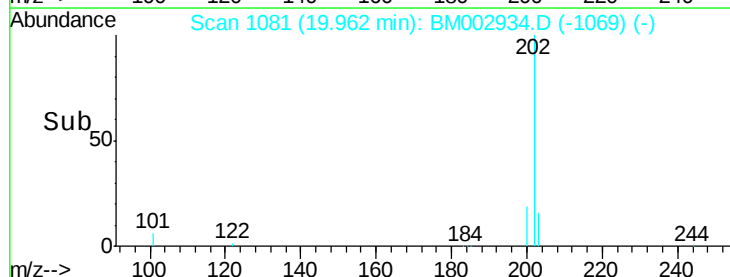
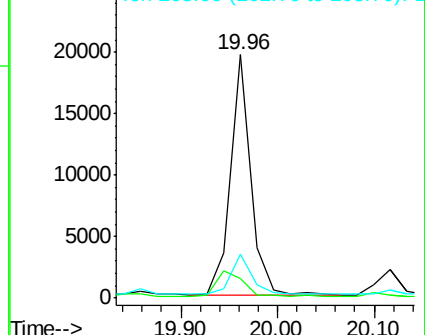
203 16.4 13.8 20.6

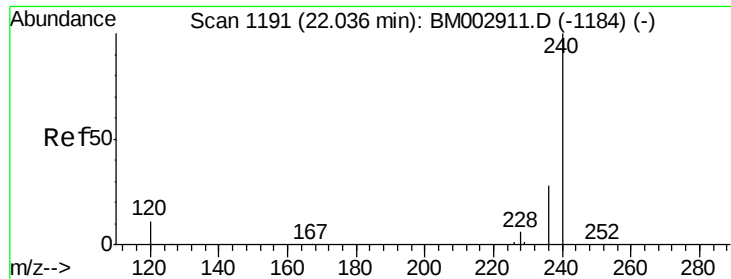


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

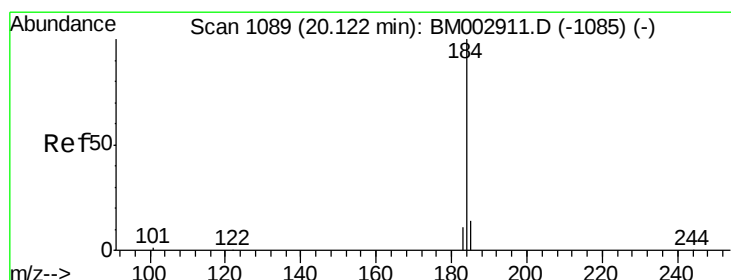
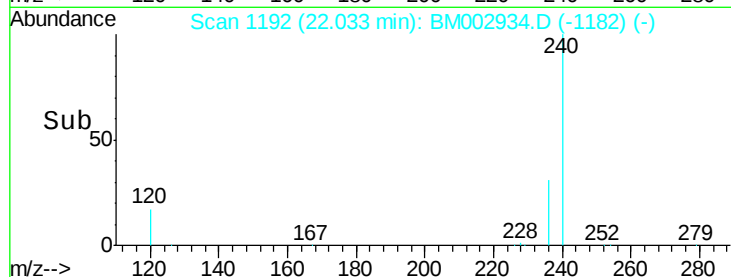
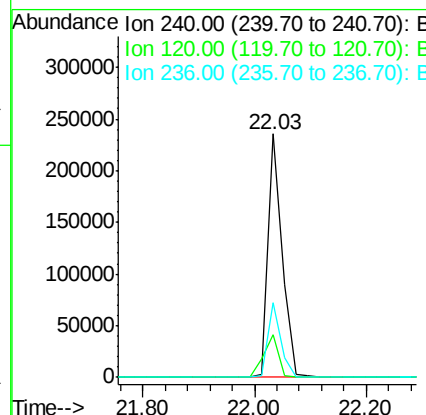
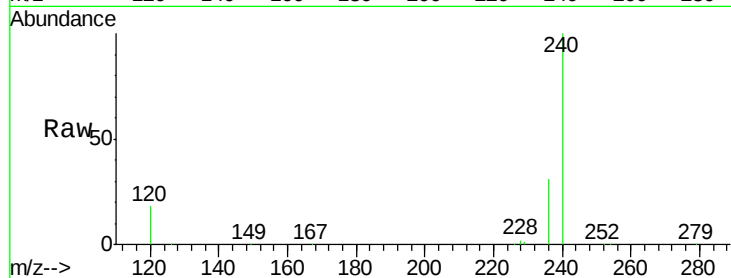




#26
Chrysene-d12
Concen: 5.00 ng
RT: 22.03 min Scan# 1192
Delta R.T. 0.00 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

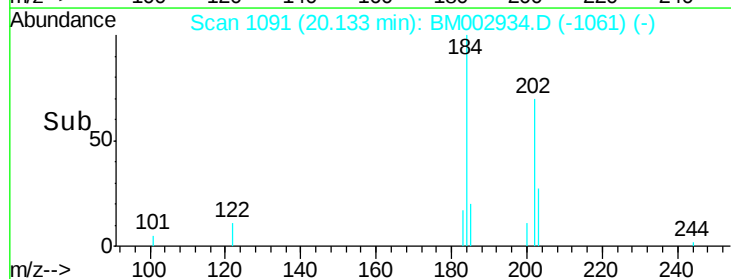
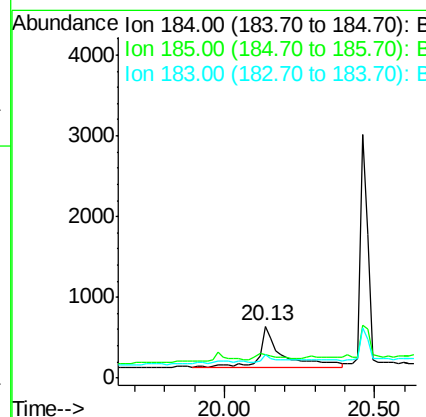
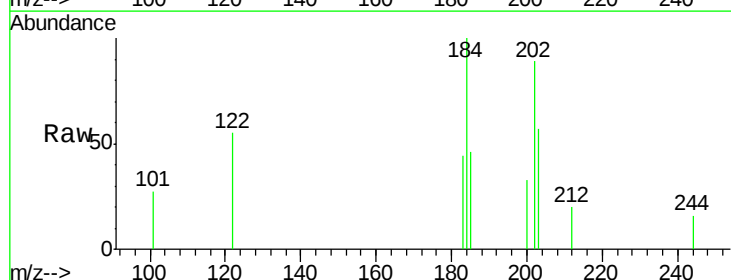
Instrument :
BNA_M
ClientSampleId :
RAV-GT-111

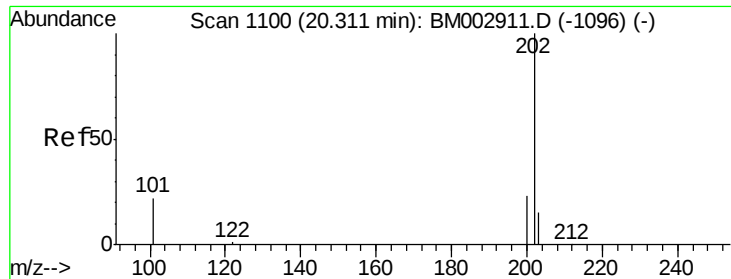
Tot Ion:240 Resp: 409879
Ion Ratio Lower Upper
240 100
120 17.5 3.3 4.9#
236 30.6 19.5 29.3#



#27
Benzidine
Concen: 0.19 ng
RT: 20.13 min Scan# 1091
Delta R.T. 0.02 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

Tgt Ion:184 Resp: 2530
Ion Ratio Lower Upper
184 100
185 45.7 12.0 18.0#
183 44.1 8.9 13.3#

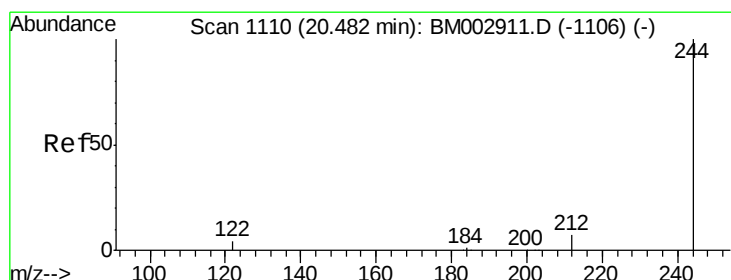
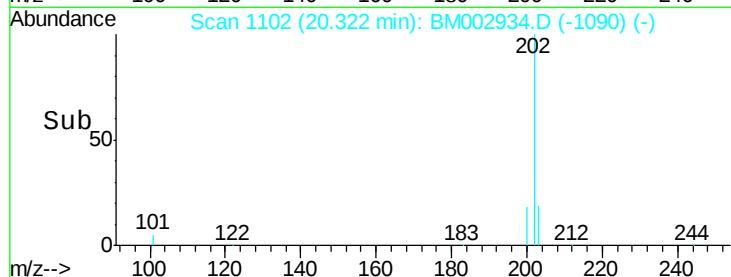
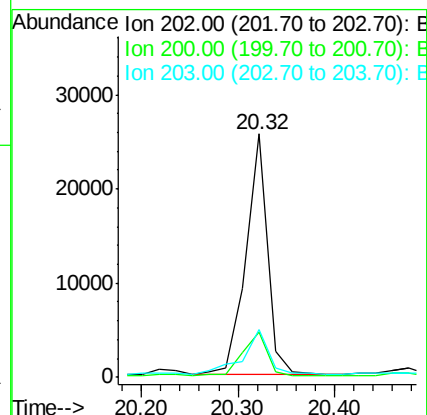
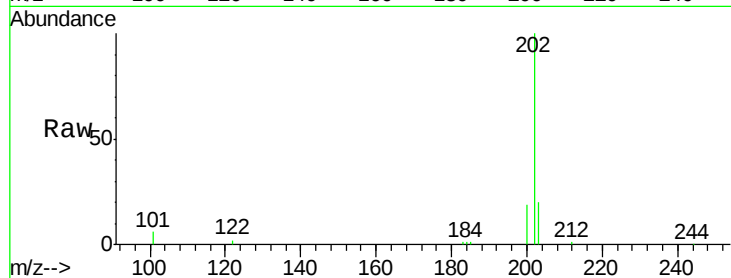




#28
Pvrene
Concen: 0.33 ng
RT: 20.32 min Scan# 1102
Delta R.T. -0.00 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

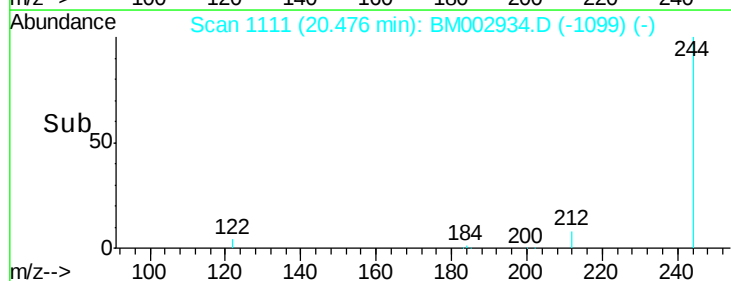
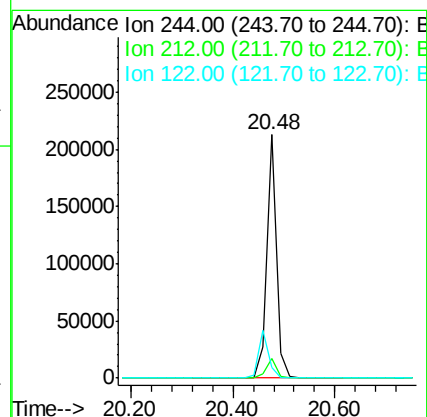
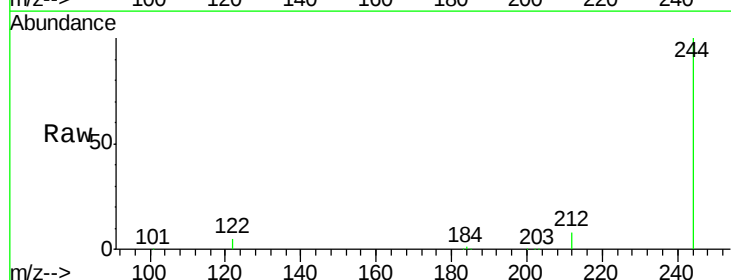
Instrument :
BNA_M
ClientSampleId :
RAV-GT-111

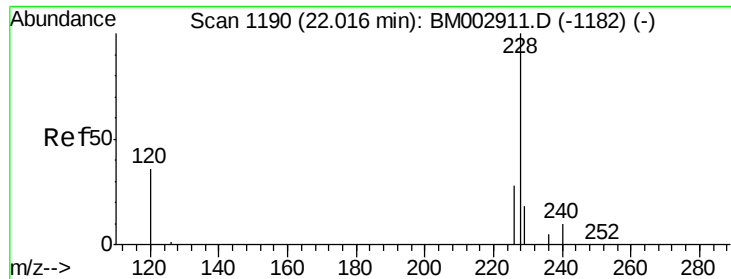
Tot Ion:202 Resp: 39730
Ion Ratio Lower Upper
202 100
200 20.5 16.2 24.4
203 22.5 13.8 20.8#



#29
Terphenyl-d14
Concen: 4.42 ng
RT: 20.48 min Scan# 1111
Delta R.T. -0.00 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

Tgt Ion:244 Resp: 271415
Ion Ratio Lower Upper
244 100
212 8.1 5.6 8.4
122 4.6 2.2 3.2#





#30

Benzo(a)anthracene

Concen: 0.13 ng

RT: 22.01 min Scan# 1191

Delta R.T. 0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

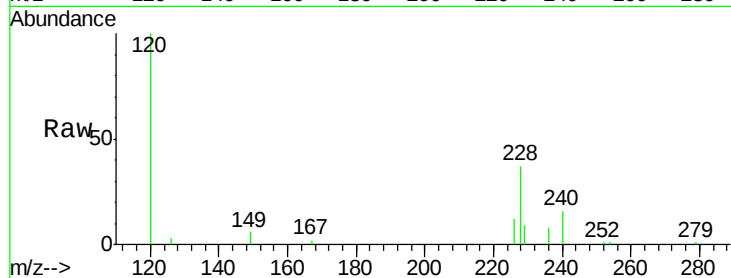
Tot Ion:228 Resp: 14872

Ion Ratio Lower Upper

228 100

226 32.3 19.0 28.6#

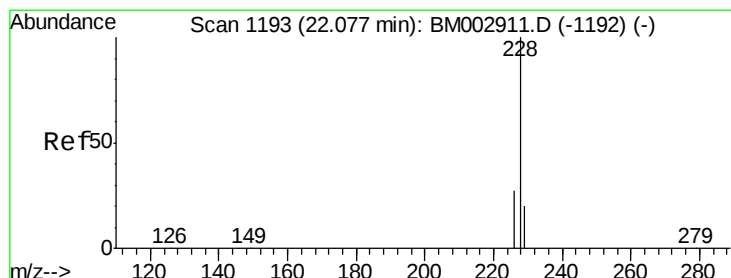
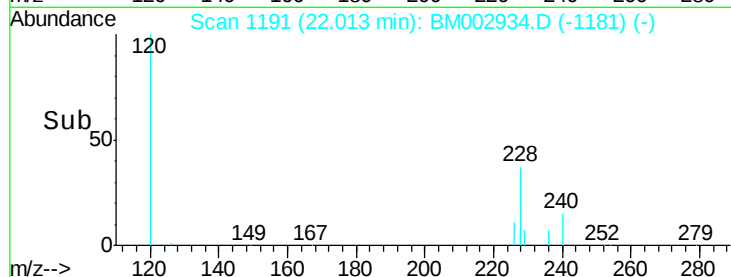
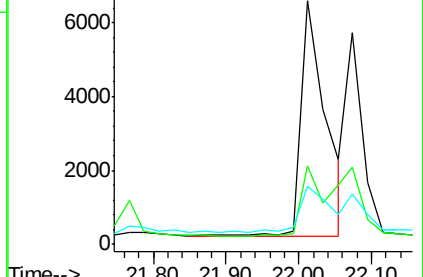
229 23.6 16.8 25.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Chrysene

Concen: 0.13 ng

RT: 22.01 min Scan# 1191

Delta R.T. -0.06 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

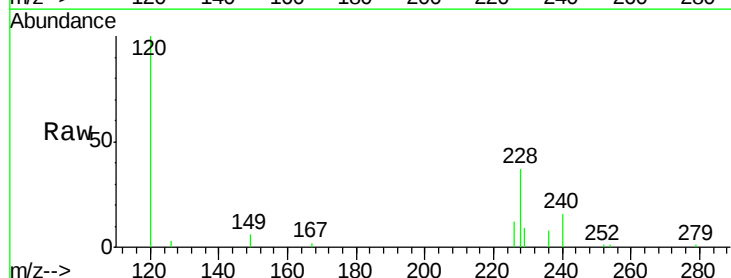
Tgt Ion:228 Resp: 14762

Ion Ratio Lower Upper

228 100

226 32.3 20.6 30.8#

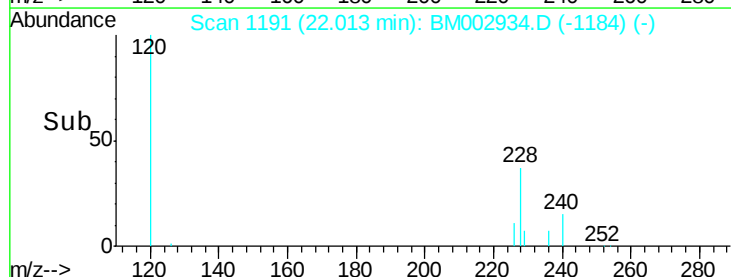
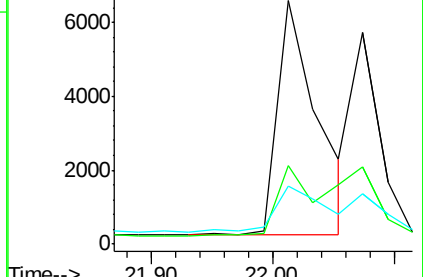
229 23.6 17.4 26.2

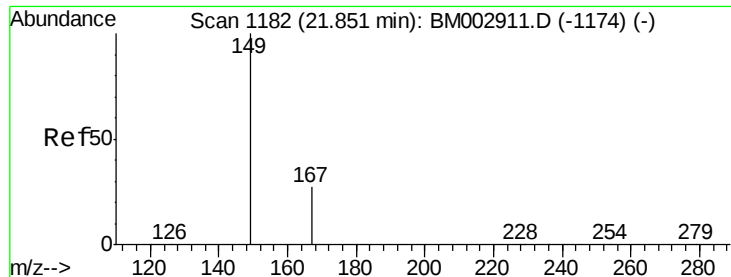


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Bis(2-ethylhexyl)phthalate

Concen: 0.41 ng

RT: 21.85 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

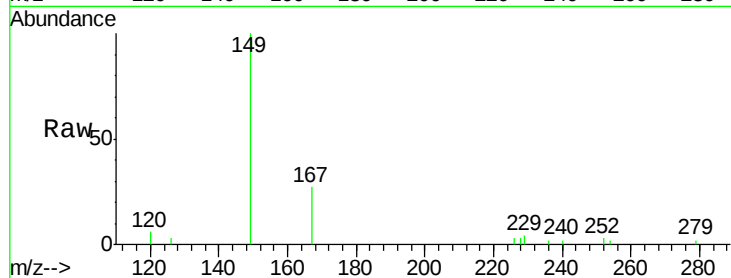
Tot Ion:149 Resp: 10577

Ion Ratio Lower Upper

149 100

167 25.1 17.2 25.8

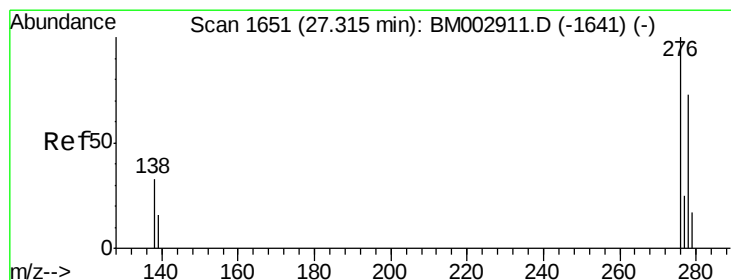
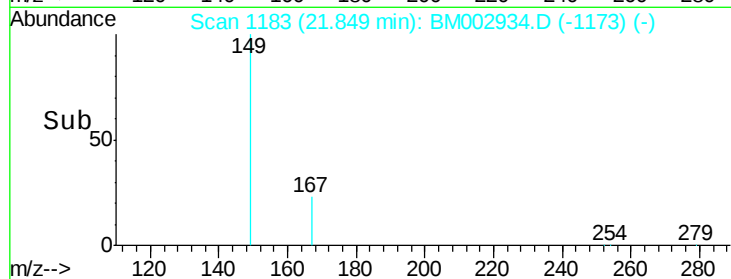
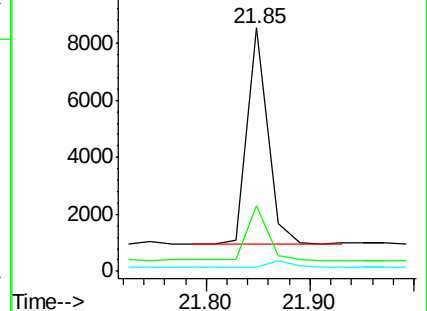
279 0.0 2.2 3.4#



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



#34

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 27.33 min Scan# 1654

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

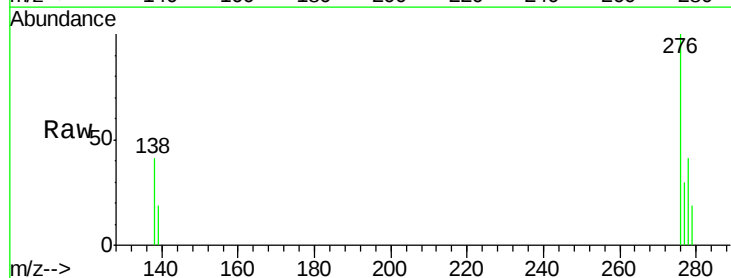
Tgt Ion:276 Resp: 5413

Ion Ratio Lower Upper

276 100

138 33.8 29.0 43.6

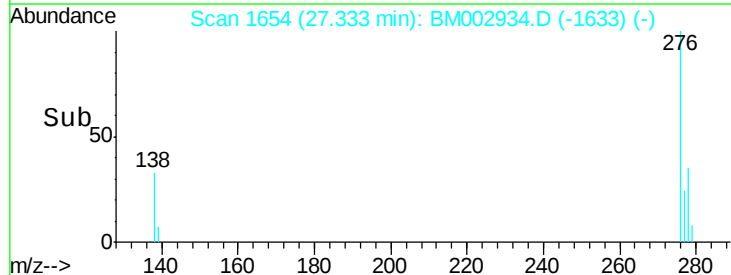
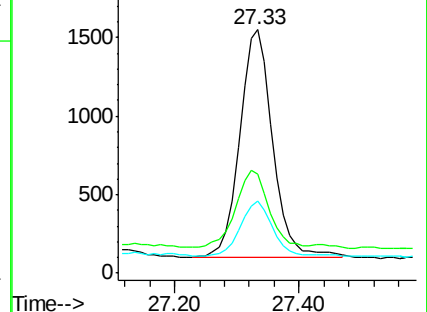
277 23.4 19.8 29.8

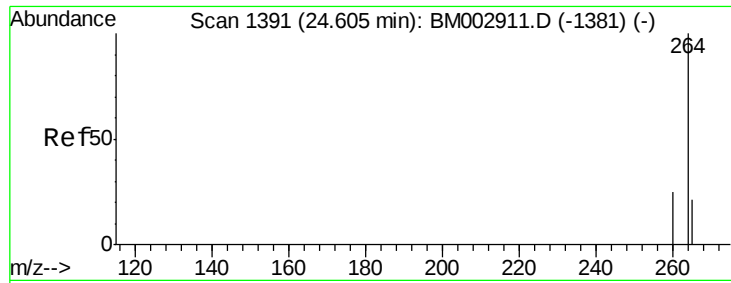


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

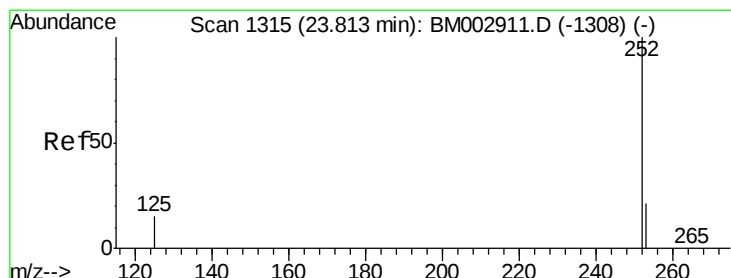
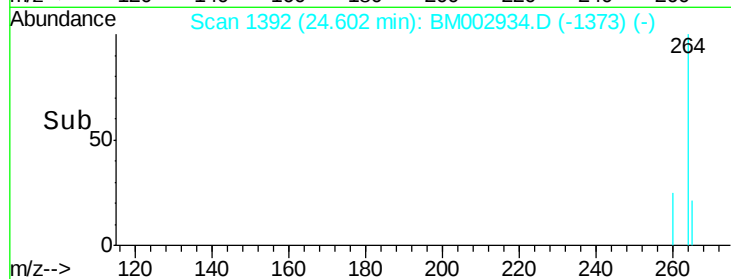
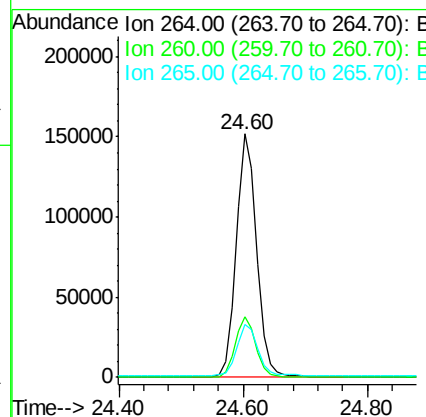
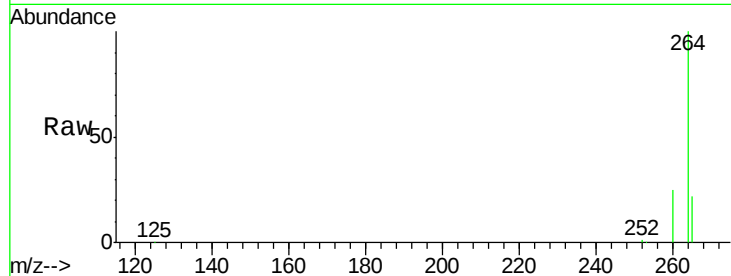




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.60 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: BM002934.D
 Acq: 16 Oct 2015 14:53

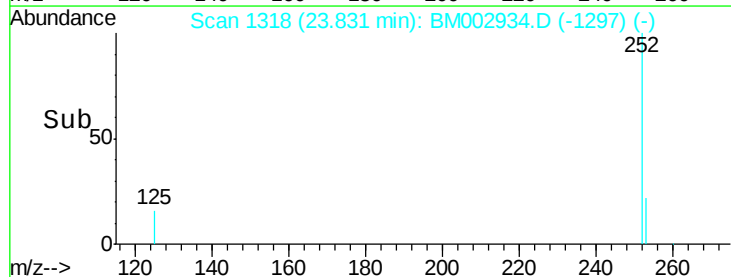
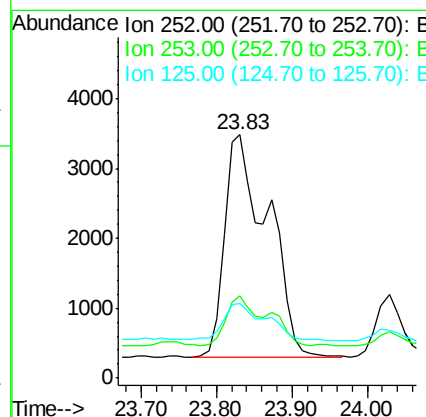
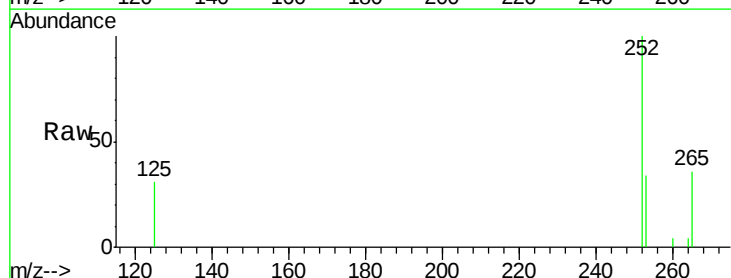
Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-111

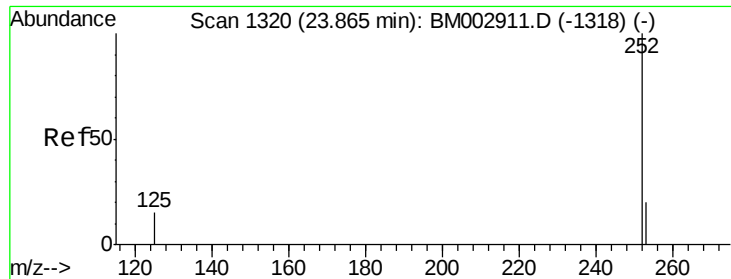
Tot Ion:264 Resp: 348166
 Ion Ratio Lower Upper
 264 100
 260 25.1 20.1 30.1
 265 21.7 17.6 26.4



#36
 Benzo(b)fluoranthene
 Concen: 0.13 ng
 RT: 23.83 min Scan# 1318
 Delta R.T. 0.02 min
 Lab File: BM002934.D
 Acq: 16 Oct 2015 14:53

Tgt Ion:252 Resp: 12701
 Ion Ratio Lower Upper
 252 100
 253 33.9 17.5 26.3#
 125 30.5 12.4 18.6#

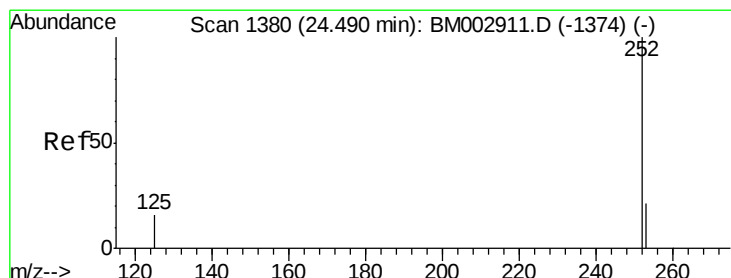
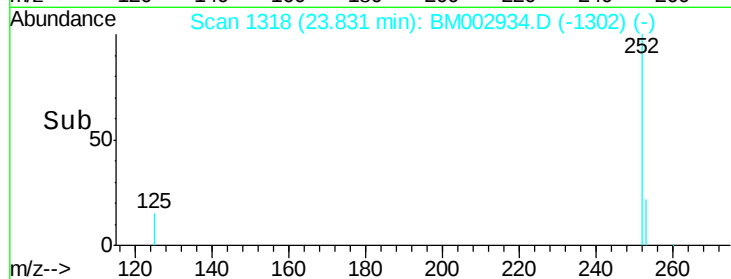
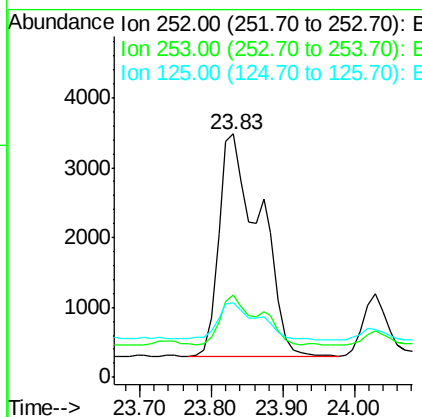
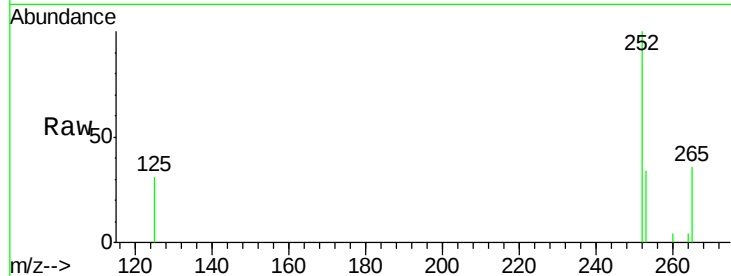




#37
Benzo(k)fluoranthene
Concen: 0.13 ng
RT: 23.83 min Scan# 1318
Delta R.T. -0.03 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

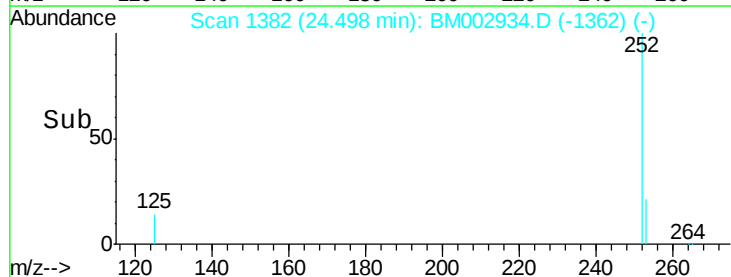
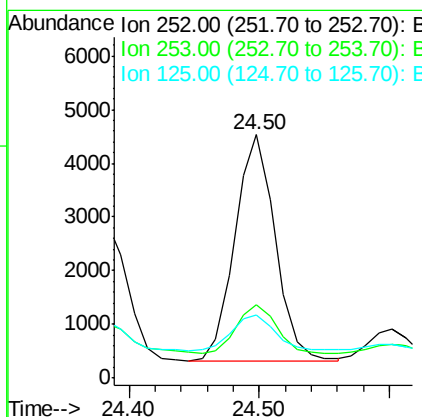
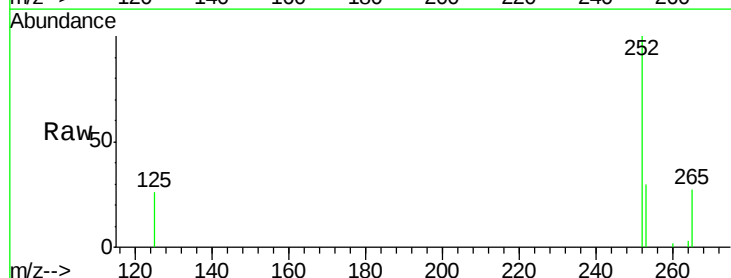
Instrument :
BNA_M
ClientSampleId :
RAV-GT-111

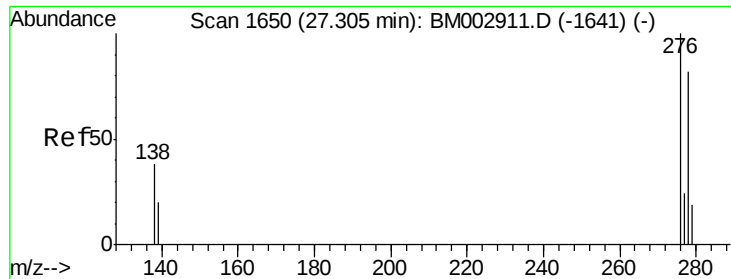
Tot Ion:252 Resp: 12702
Ion Ratio Lower Upper
252 100
253 33.9 17.9 26.9#
125 30.5 12.3 18.5#



#38
Benzo(a)pyrene
Concen: 0.10 ng
RT: 24.50 min Scan# 1382
Delta R.T. 0.01 min
Lab File: BM002934.D
Acq: 16 Oct 2015 14:53

Tgt Ion:252 Resp: 9126
Ion Ratio Lower Upper
252 100
253 30.1 18.4 27.6#
125 26.0 13.3 19.9#





#39

Dibenzo(a,h)anthracene

Concen: 0.03 ng

RT: 27.32 min Scan# 1653

Delta R.T. 0.02 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Instrument :

BNA_M

ClientSampleId :

RAV-GT-111

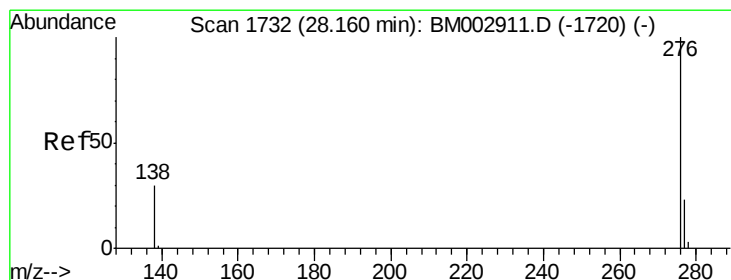
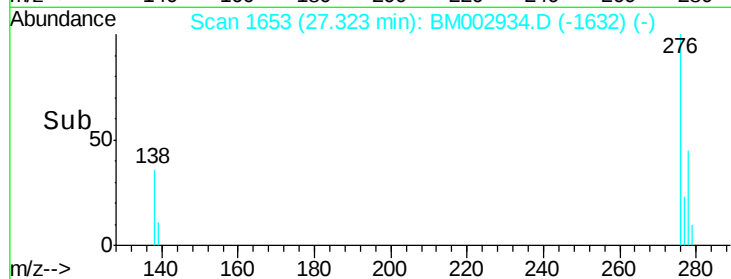
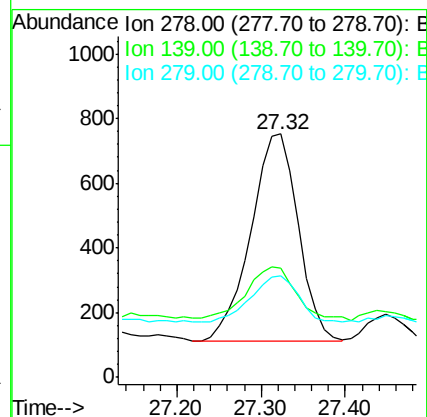
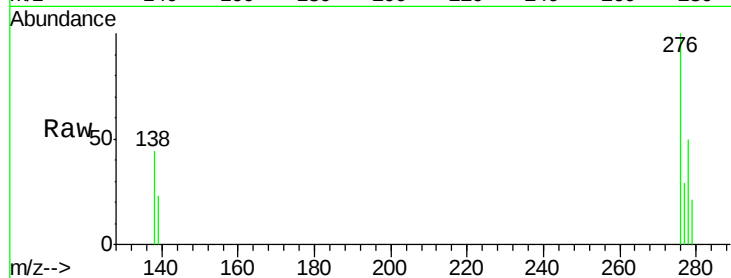
Tot Ion:278 Resp: 2492

Ion Ratio Lower Upper

278 100

139 44.9 19.8 29.6#

279 41.7 19.1 28.7#



#40

Benzo(g,h,i)perylene

Concen: 0.06 ng

RT: 28.17 min Scan# 1734

Delta R.T. 0.01 min

Lab File: BM002934.D

Acq: 16 Oct 2015 14:53

Tgt Ion:276 Resp: 5551

Ion Ratio Lower Upper

276 100

277 28.8 19.4 29.0

138 42.1 24.4 36.6#

