

Data Path : Z:\HPCHEM1\BNA M\DATA\BM101515\
 Data File : BM002923.D
 Acq On : 15 Oct 2015 20:34
 Operator : UM/IZ
 Sample : G4018-04
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104

Quant Time: Oct 16 07:01:22 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 06:59:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.66	152	93130	5.00	ng	0.00
7) Naphthalene-d8	11.50	136	391522	5.00	ng	0.00
13) Acenaphthene-d10	15.23	164	206281	5.00	ng	0.00
19) Phenanthrene-d10	17.95	188	451919	5.00	ng	0.00
26) Chrysene-d12	22.04	240	423041	5.00	ng	0.00
35) Perylene-d12	24.60	264	360942	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.12	112	54884	3.15	ng	-0.03
5) Phenol-d6	7.79	99	44075	1.98	ng	-0.02
8) Nitrobenzene-d5	9.85	82	75134	4.01	ng	-0.01
14) 2,4,6-Tribromophenol	16.72	330	69551	8.60	ng	0.00
15) 2-Fluorobiphenyl	13.88	172	272284	4.12	ng	0.00
29) Terphenyl-d14	20.48	244	273546	4.32	ng	0.00

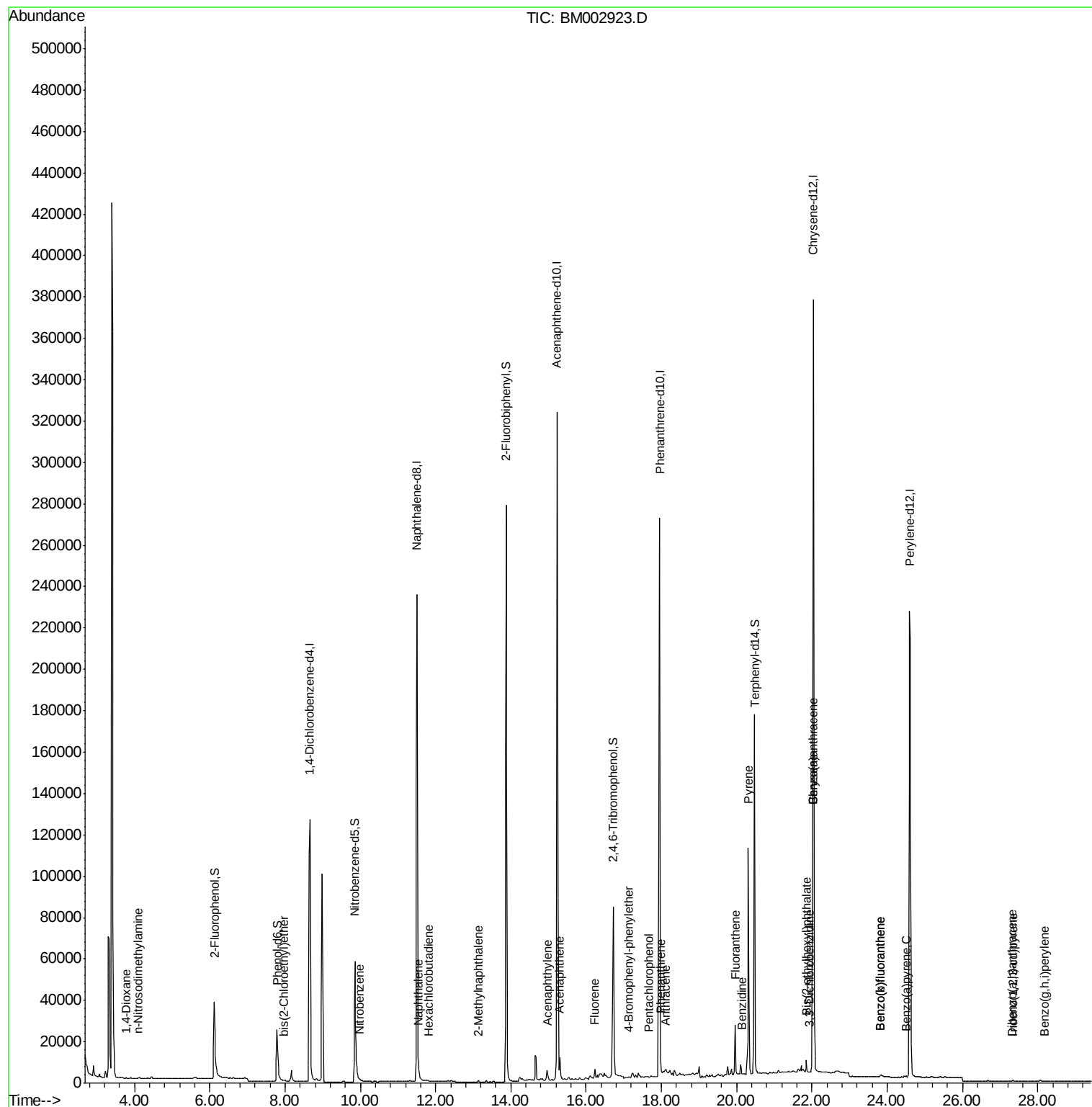
Target Compounds						Qvalue
2) 1,4-Dioxane	3.78	88	182	0.02	ng	# 34
3) n-Nitrosodimethylamine	4.11	42	117	0.02	ng	# 1
6) bis(2-Chloroethyl)ether	7.97	93	144	0.01	ng	# 43
9) Nitrobenzene	9.97	77	28	0.00	ng	# 35
10) Naphthalene	11.56	128	2344	0.03	ng	# 79
11) Hexachlorobutadiene	11.81	225	68	0.00	ng	# 86
12) 2-Methylnaphthalene	13.14	142	639	0.01	ng	# 59
16) Acenaphthylene	14.96	152	6718	0.07	ng	# 95
17) Acenaphthene	15.30	154	6817	0.11	ng	# 100
18) Fluorene	16.23	166	3325	0.05	ng	# 72
20) 4-Bromophenyl-phenylether	17.13	248	1031	0.06	ng	# 29
21) Hexachlorobenzene	17.26	284	124	Below Cal		# 42
22) Pentachlorophenol	17.67	266	92	0.28	ng	# 77
23) Phenanthrene	17.98	178	4219	0.04	ng	# 78
24) Anthracene	18.10	178	5821	0.06	ng	# 80
25) Fluoranthene	19.97	202	34838	0.30	ng	# 100
27) Benzidine	20.14	184	316	0.16	ng	# 1
28) Pyrene	20.31	202	111294	0.89	ng	# 95
30) Benzo(a)anthracene	22.02	228	20548	0.17	ng	# 92
31) 3,3'-Dichlorobenzidine	21.94	252	87	0.00	ng	# 56
32) Chrysene	22.02	228	20484	0.18	ng	# 95
33) Bis(2-ethylhexyl)phthalate	21.85	149	7119	0.37	ng	# 83
34) Indeno(1,2,3-cd)pyrene	27.34	276	713	0.01	ng	# 92
36) Benzo(b)fluoranthene	23.83	252	2097	0.02	ng	# 1
37) Benzo(k)fluoranthene	23.83	252	2087	0.02	ng	# 1
38) Benzo(a)pyrene	24.49	252	1215	0.01	ng	# 1
39) Dibenzo(a,h)anthracene	27.33	278	498	0.01	ng	# 1
40) Benzo(g,h,i)perylene	28.17	276	639	0.01	ng	# 12

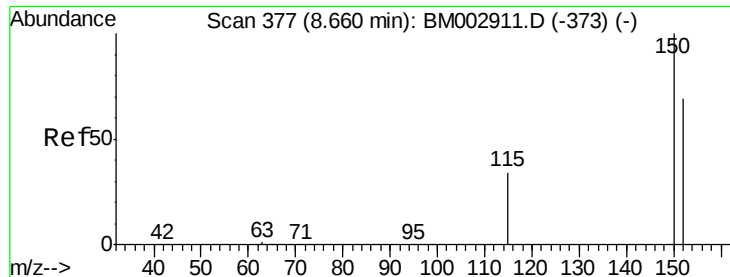
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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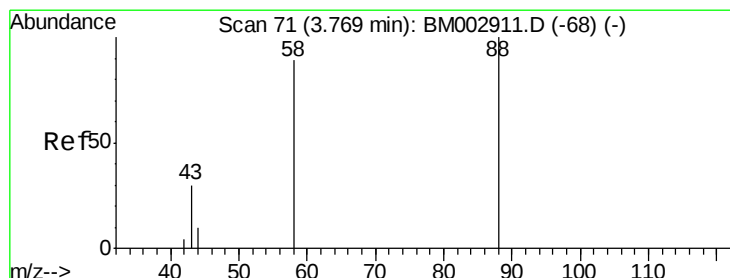
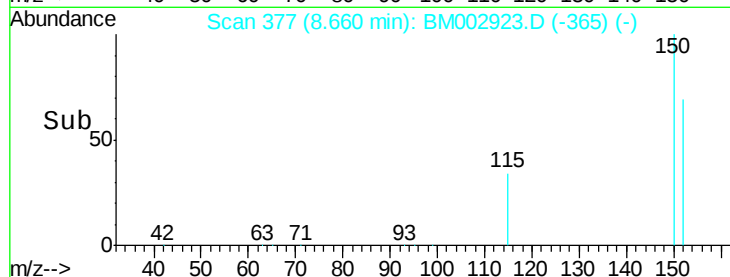
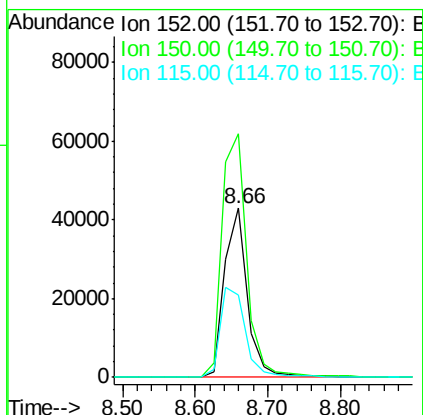
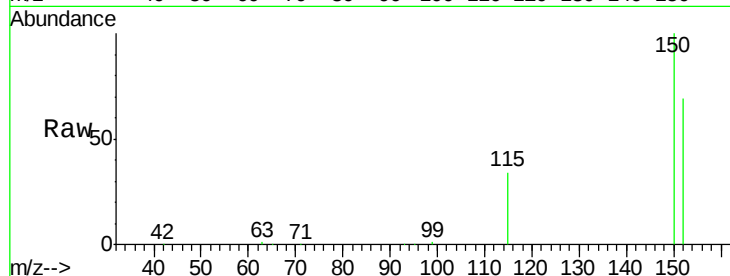


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.66 min Scan# 377
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Instrument :
BNA_M
ClientSampleId :
RAV-GT-104

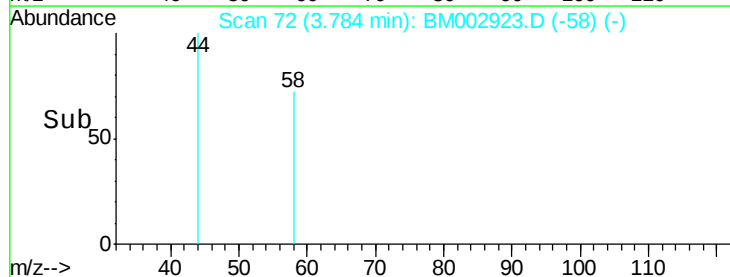
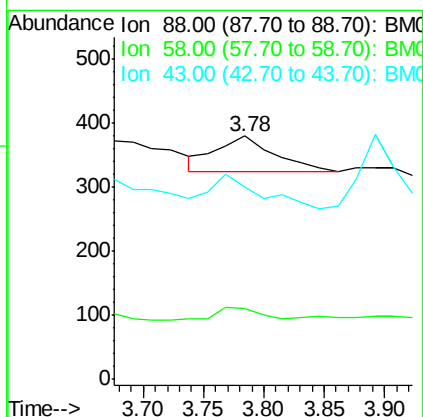
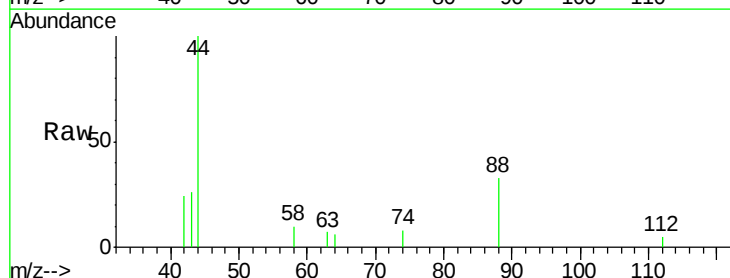
Tot Ion:152 Resp: 93130
Ion Ratio Lower Upper
152 100
150 144.0 113.0 169.6
115 49.1 37.9 56.9

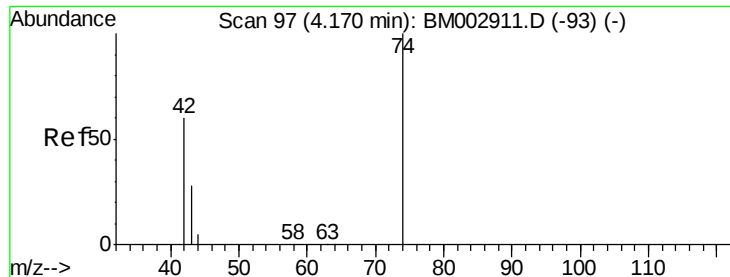


#2

1,4-Dioxane
Concen: 0.02 ng
RT: 3.78 min Scan# 72
Delta R.T. 0.02 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Tgt Ion: 88 Resp: 182
Ion Ratio Lower Upper
88 100
58 27.5 56.7 85.1#
43 80.8 22.0 33.0#





#3

n-Nitrosodimethylamine

Concen: 0.02 ng

RT: 4.11 min Scan# 93

Delta R.T. -0.06 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

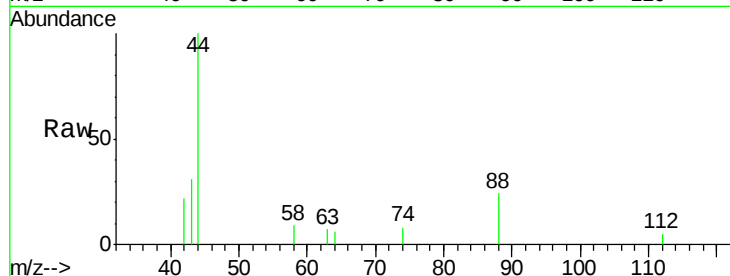
Tot Ion: 42 Resp: 117

Ion Ratio Lower Upper

42 100

74 9.4 119.7 179.5#

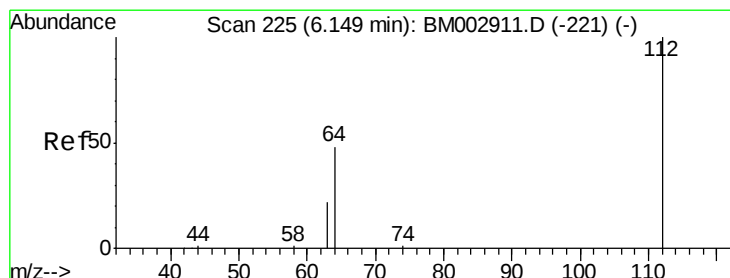
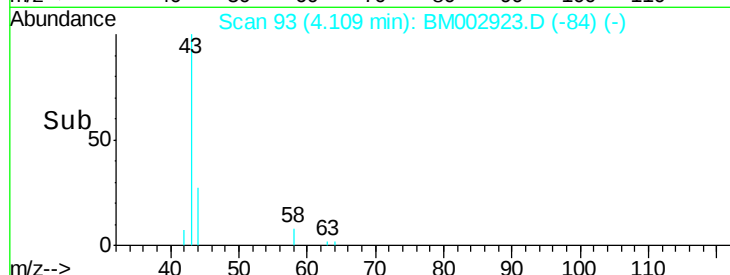
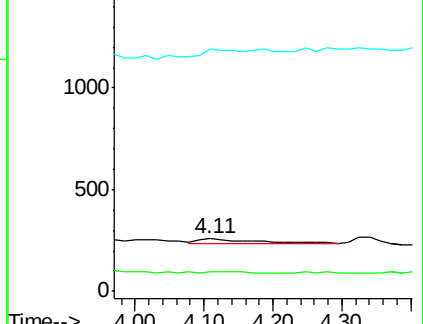
44 188.9 9.8 14.6#



Abundance Ion 42.00 (41.70 to 42.70): BM002911.D (-93) (-)

Ion 74.00 (73.70 to 74.70): BM002911.D (-93) (-)

Ion 44.00 (43.70 to 44.70): BM002911.D (-93) (-)



#4

2-Fluorophenol

Concen: 3.15 ng

RT: 6.12 min Scan# 223

Delta R.T. -0.03 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

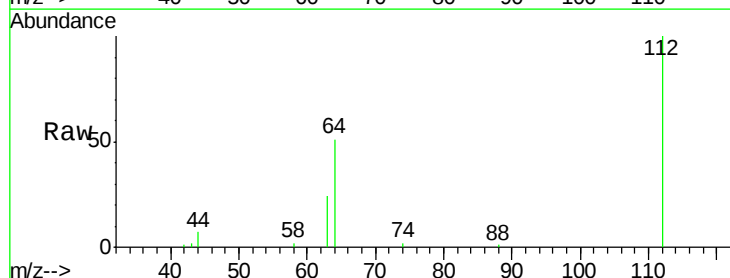
Tgt Ion: 112 Resp: 54884

Ion Ratio Lower Upper

112 100

64 51.5 42.0 63.0

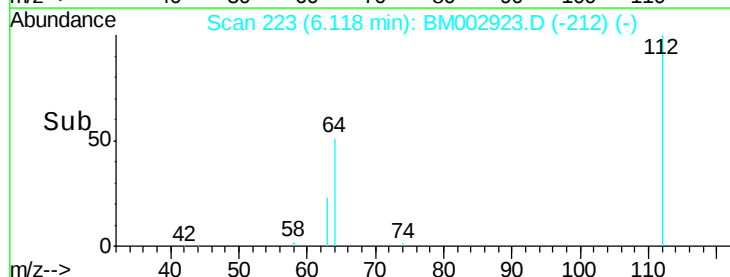
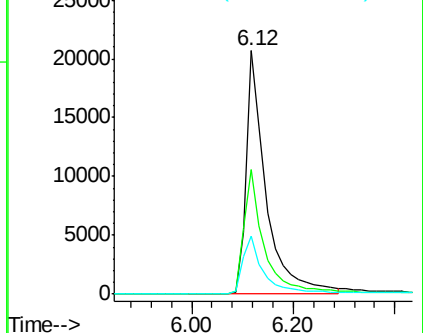
63 24.4 20.0 30.0

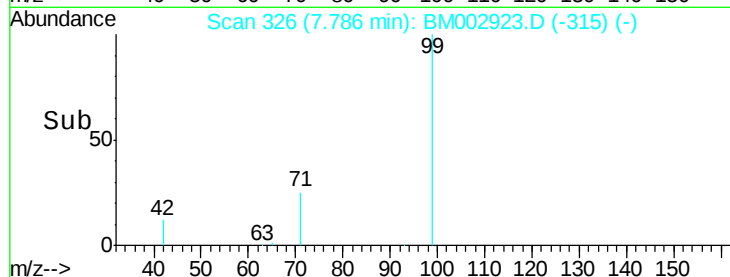
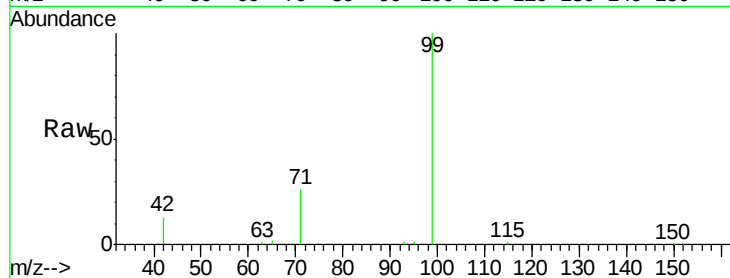
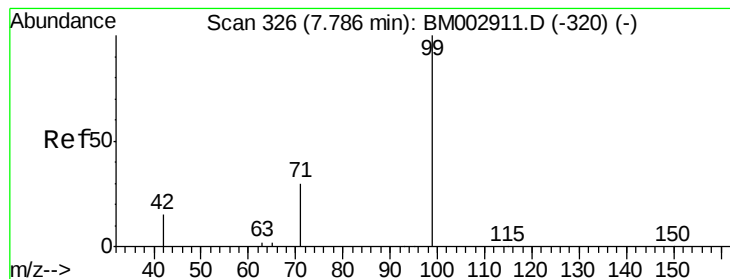


Abundance Ion 112.00 (111.70 to 112.70): BM002911.D (-221) (-)

Ion 64.00 (63.70 to 64.70): BM002911.D (-221) (-)

Ion 63.00 (62.70 to 63.70): BM002911.D (-221) (-)





#5

Phenol-d6

Concen: 1.98 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

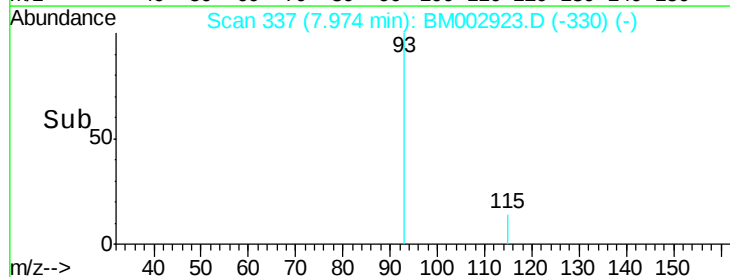
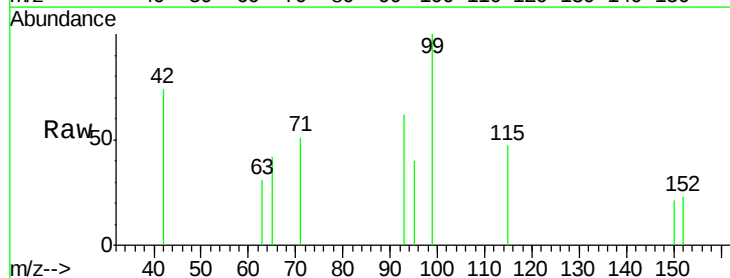
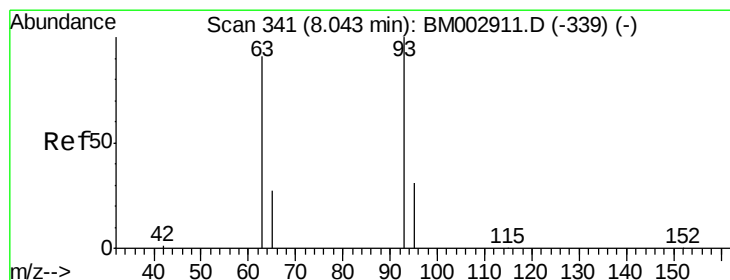
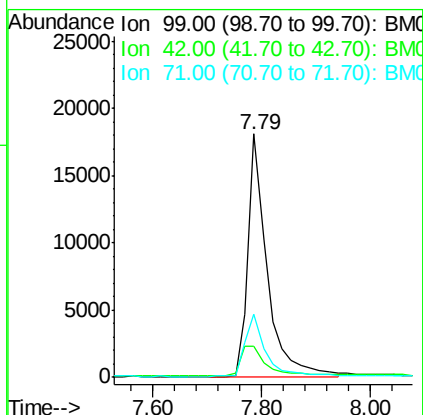
Tot Ion: 99 Resp: 44075

Ion Ratio Lower Upper

99 100

42 15.5 12.4 18.6

71 26.9 21.4 32.0



#6

bis(2-Chloroethyl)ether

Concen: 0.01 ng

RT: 7.97 min Scan# 337

Delta R.T. -0.09 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

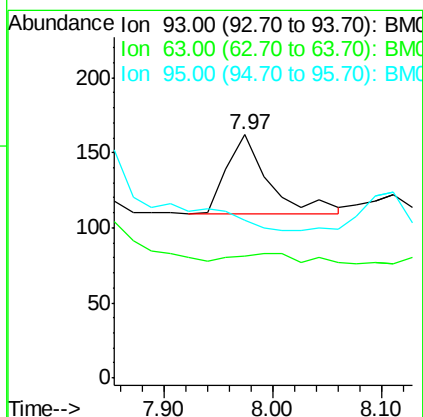
Tgt Ion: 93 Resp: 144

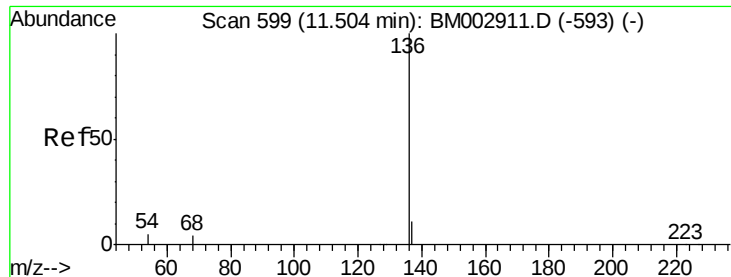
Ion Ratio Lower Upper

93 100

63 20.8 52.9 79.3#

95 0.0 25.2 37.8#





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.50 min Scan# 599

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

Tot Ion:136 Resp: 391522

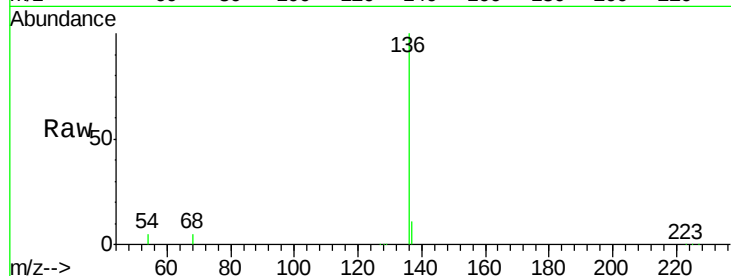
Ion Ratio Lower Upper

136 100

137 11.1 9.1 13.7

54 4.9 3.5 5.3

68 4.6 3.3 4.9

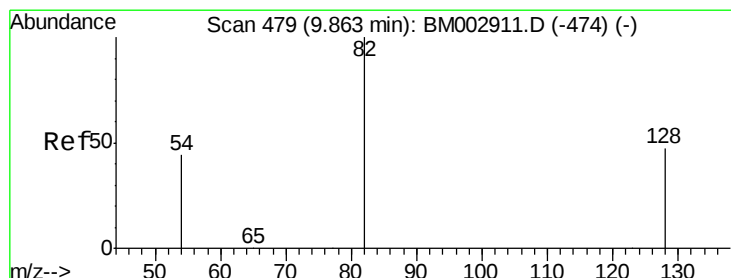
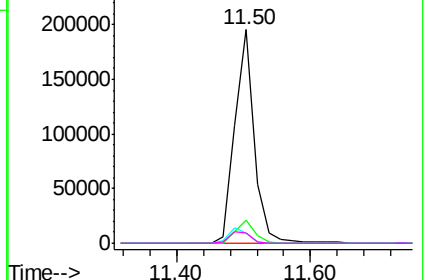
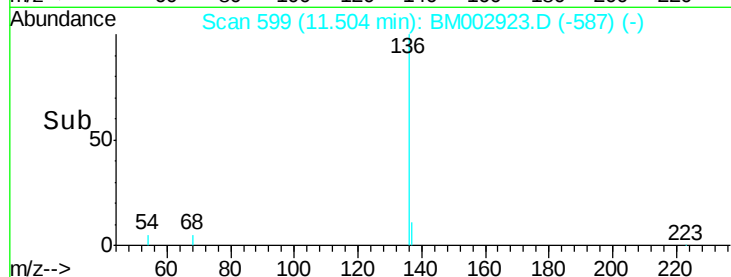


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 4.01 ng

RT: 9.85 min Scan# 478

Delta R.T. -0.01 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

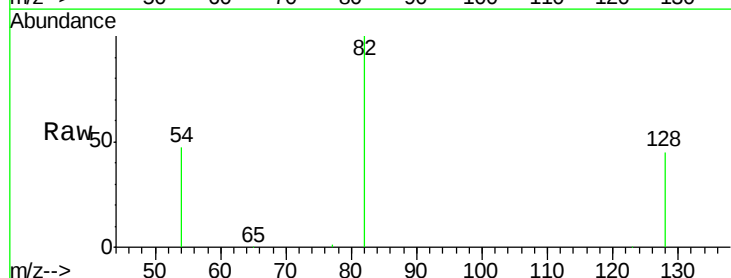
Tgt Ion: 82 Resp: 75134

Ion Ratio Lower Upper

82 100

128 44.9 34.1 51.1

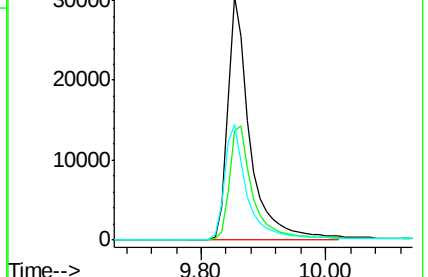
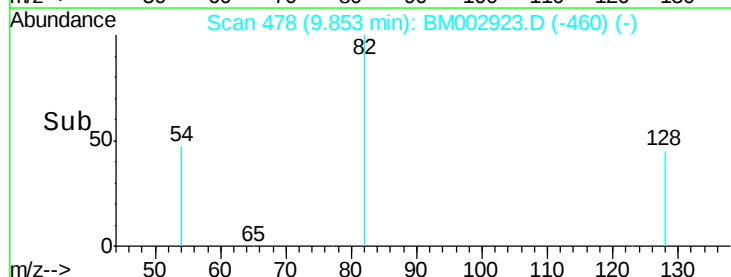
54 47.3 42.6 63.8

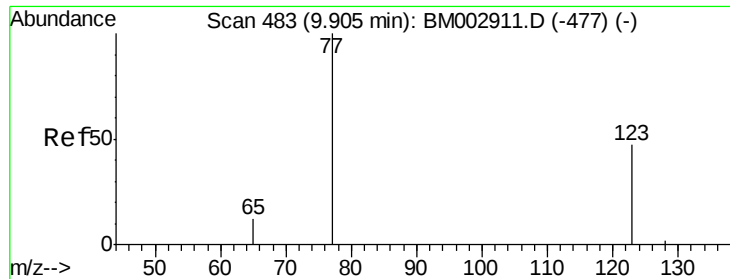


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.00 ng

RT: 9.97 min Scan# 489

Delta R.T. 0.05 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

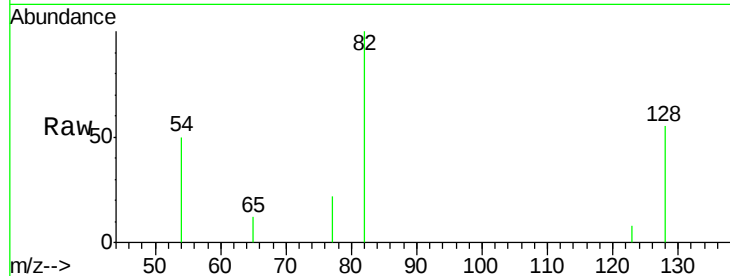
Tot Ion: 77 Resp: 28

Ion Ratio Lower Upper

77 100

123 0.0 41.0 61.4#

65 0.0 9.7 14.5#

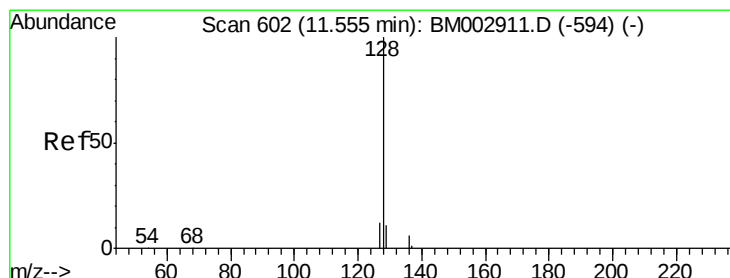
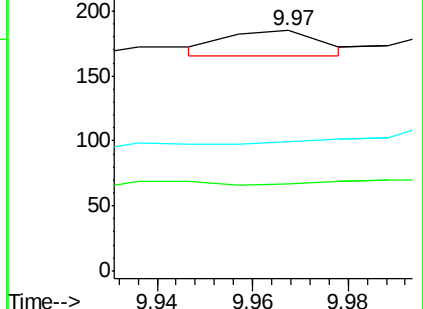
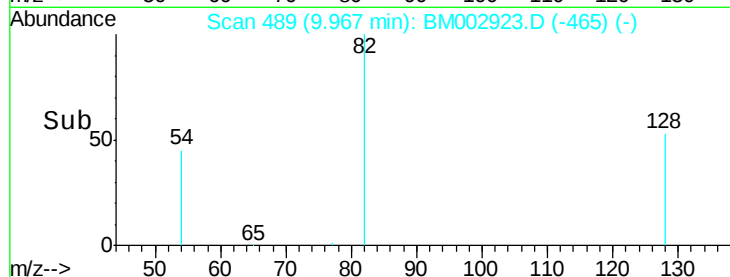


Abundance Ion 77.00 (76.70 to 77.70): BM002923.D (-477) (-)

Ion 123.00 (122.70 to 123.70): BM002923.D (-477) (-)

Ion 65.00 (64.70 to 65.70): BM002923.D (-477) (-)

Time-->



#10

Naphthalene

Concen: 0.03 ng

RT: 11.56 min Scan# 602

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

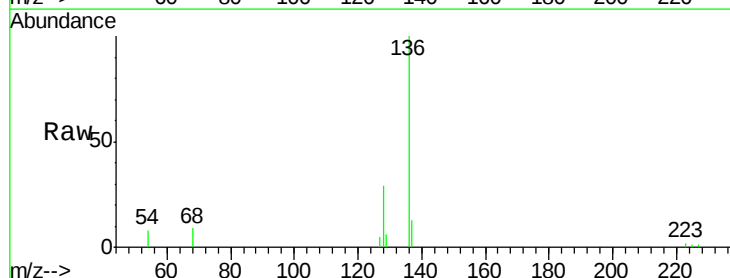
Tgt Ion: 128 Resp: 2344

Ion Ratio Lower Upper

128 100

129 21.7 9.4 14.2#

127 18.2 9.6 14.4#

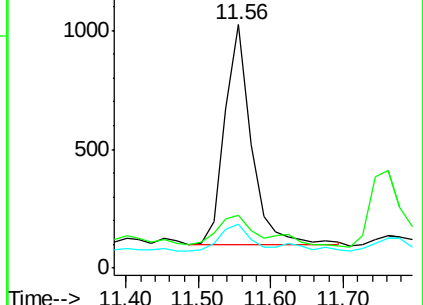
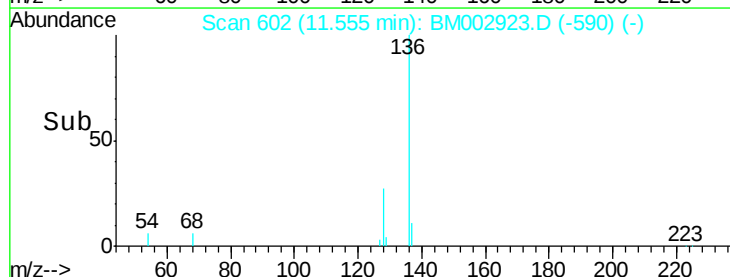


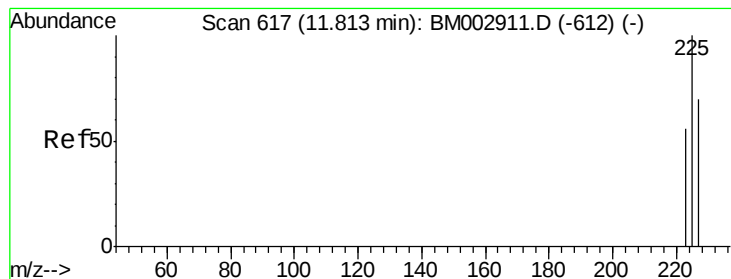
Abundance Ion 128.00 (127.70 to 128.70): BM002923.D (-594) (-)

Ion 129.00 (128.70 to 129.70): BM002923.D (-594) (-)

Ion 127.00 (126.70 to 127.70): BM002923.D (-594) (-)

Time-->





#11

Hexachlorobutadiene

Concen: 0.00 ng

RT: 11.81 min Scan# 617

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

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ClientSampleId :

RAV-GT-104

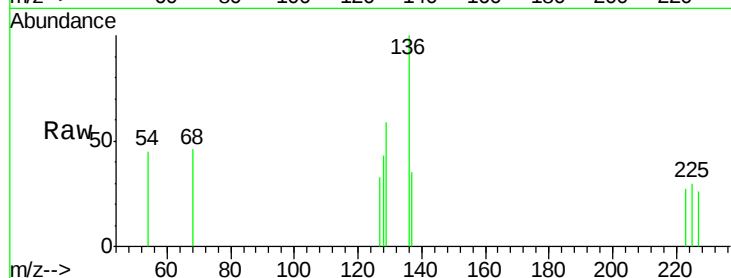
Tot Ion:225 Resp: 68

Ion Ratio Lower Upper

225 100

223 75.0 50.1 75.1

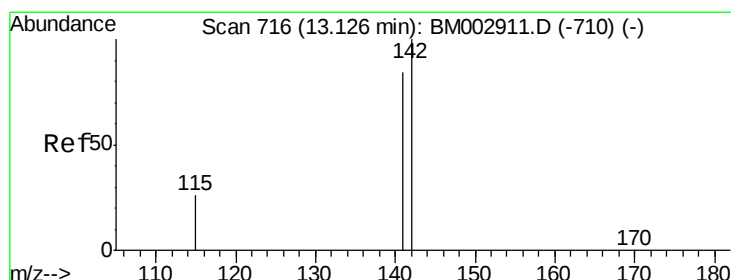
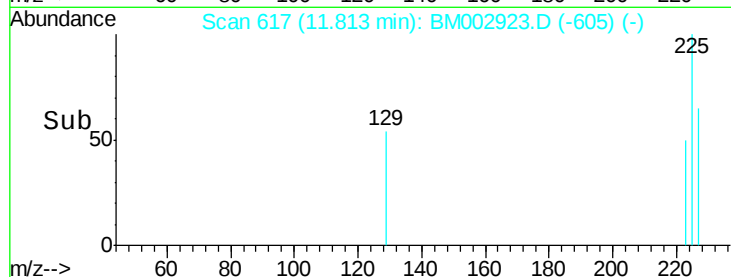
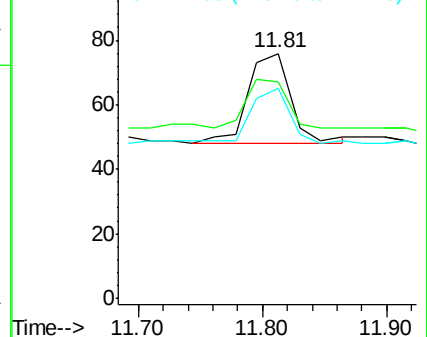
227 54.4 51.2 76.8



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 0.01 ng

RT: 13.14 min Scan# 717

Delta R.T. 0.02 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

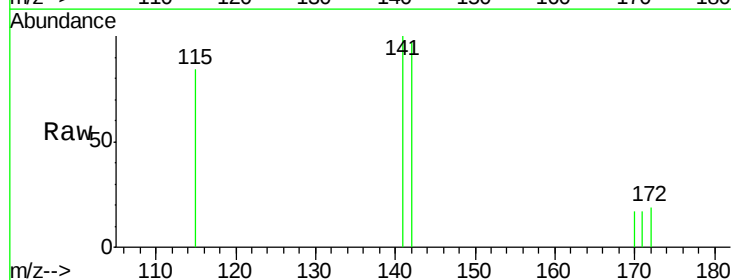
Tgt Ion:142 Resp: 639

Ion Ratio Lower Upper

142 100

141 103.0 69.4 104.0

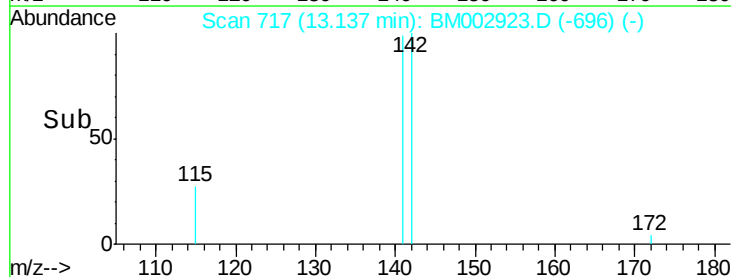
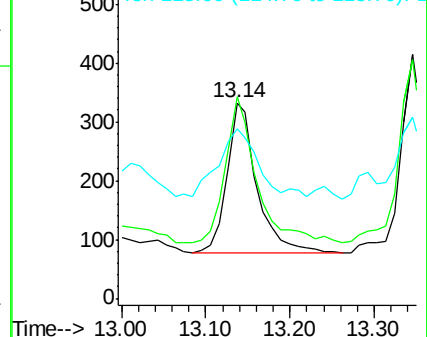
115 86.8 22.7 34.1#

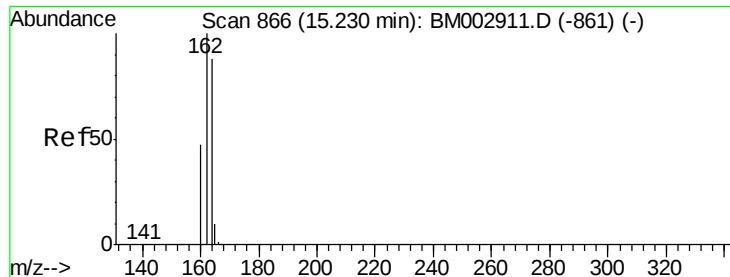


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.23 min Scan# 866

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

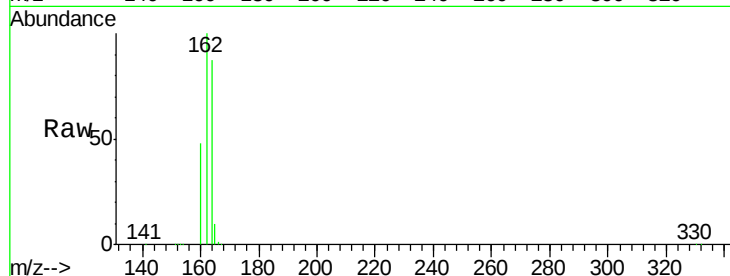
Tot Ion:164 Resp: 206281

Ion Ratio Lower Upper

164 100

162 114.7 79.6 119.4

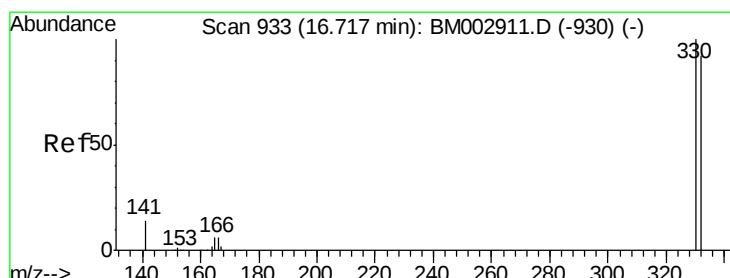
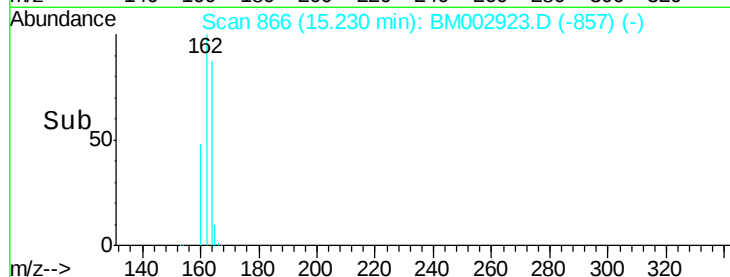
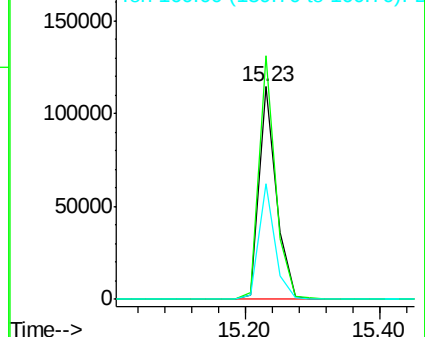
160 54.6 33.1 49.7#



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: 8.60 ng

RT: 16.72 min Scan# 933

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

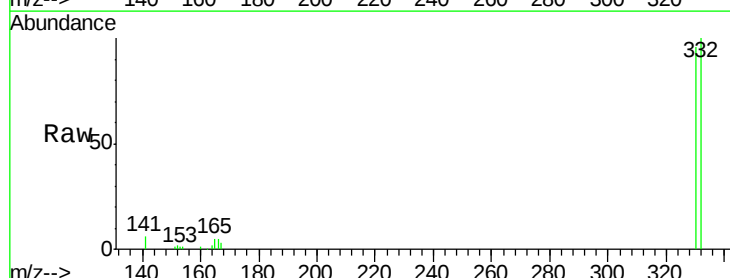
Tgt Ion:330 Resp: 69551

Ion Ratio Lower Upper

330 100

332 98.7 76.6 115.0

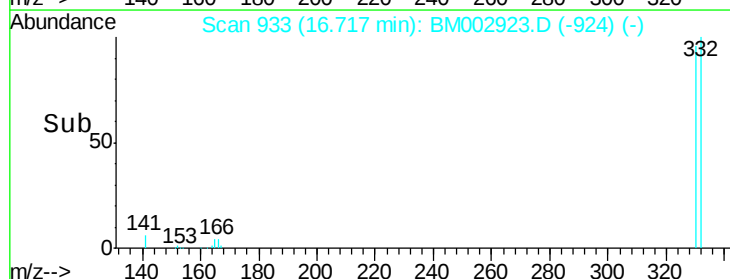
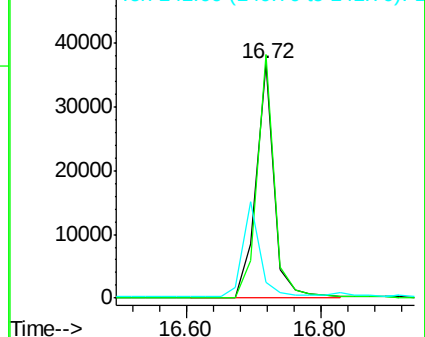
141 0.0 0.0 0.0

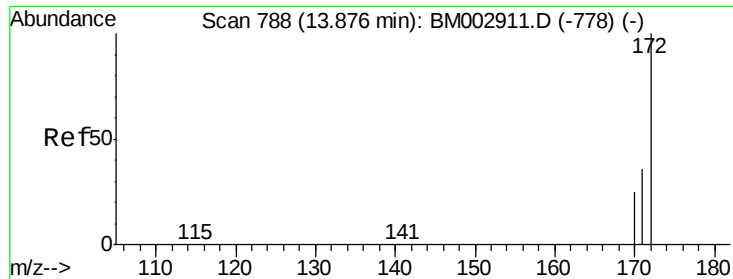


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

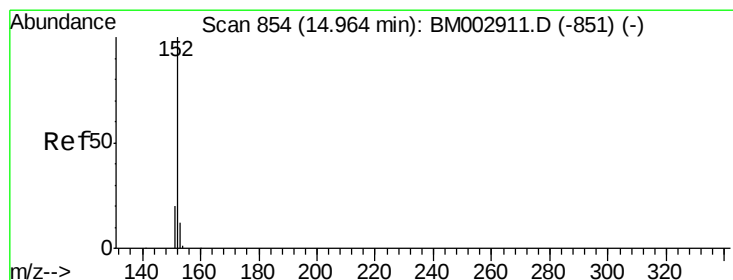
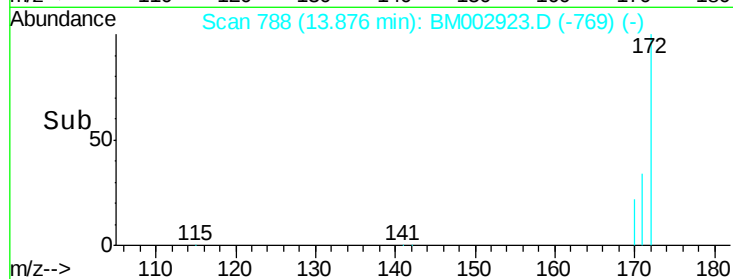
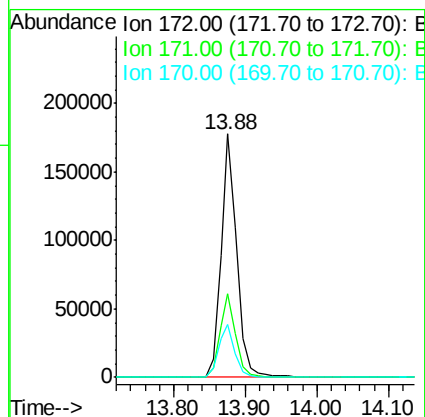
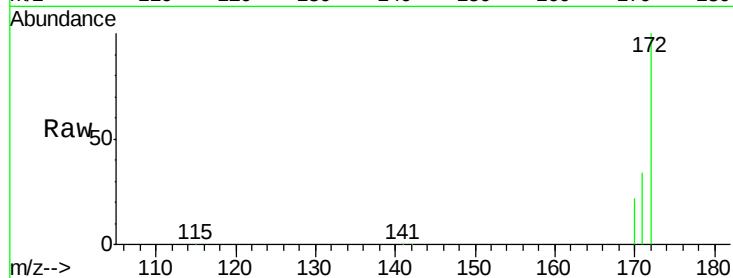




#15
2-Fluorobiphenyl
Concen: 4.12 ng
RT: 13.88 min Scan# 788
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

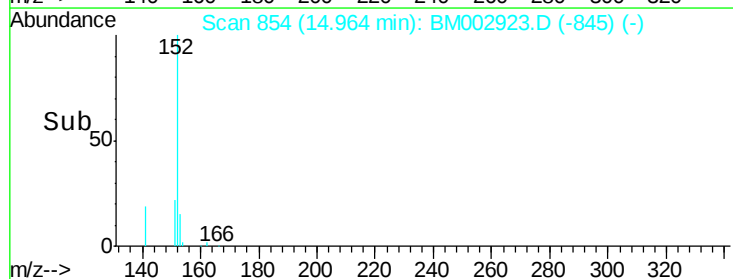
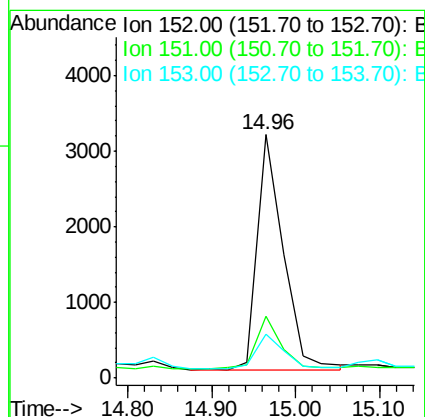
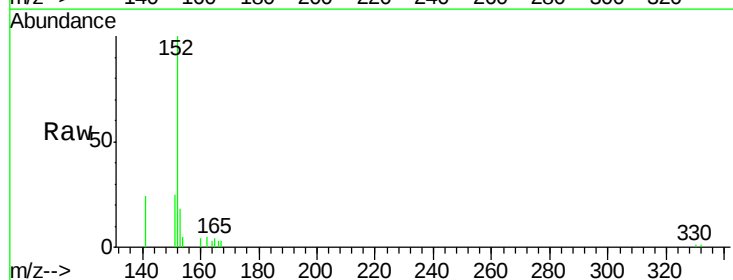
Instrument :
BNA_M
ClientSampleId :
RAV-GT-104

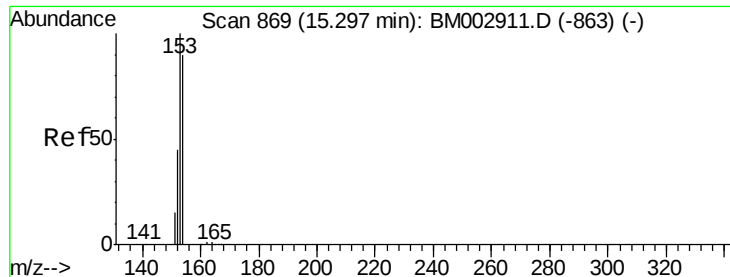
Tot Ion:172 Resp: 272284
Ion Ratio Lower Upper
172 100
171 34.5 26.1 39.1
170 21.9 15.7 23.5



#16
Acenaphthylene
Concen: 0.07 ng
RT: 14.96 min Scan# 854
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Tgt Ion:152 Resp: 6718
Ion Ratio Lower Upper
152 100
151 20.7 15.3 22.9
153 15.6 10.5 15.7

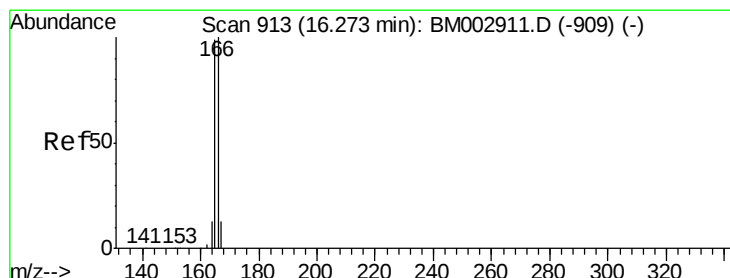
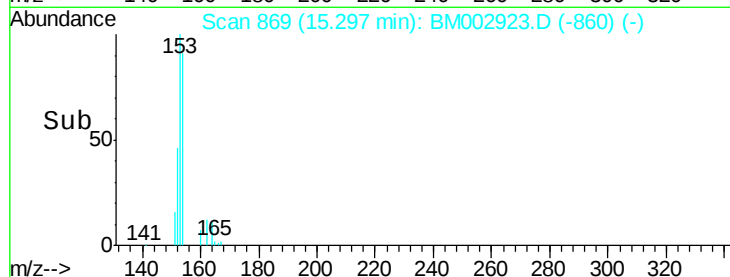
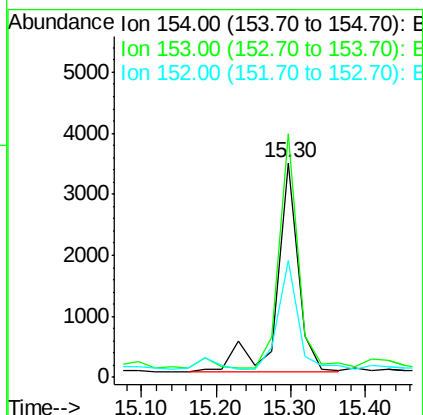
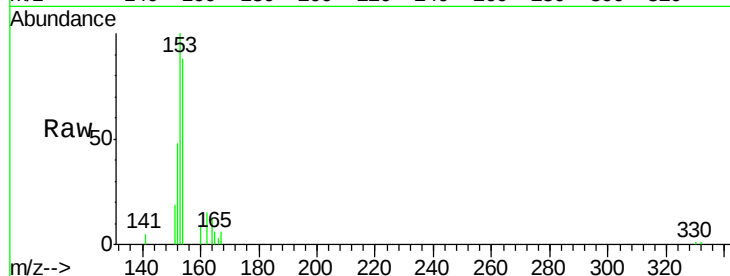




#17
Acenaphthene
Concen: 0.11 ng
RT: 15.30 min Scan# 869
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

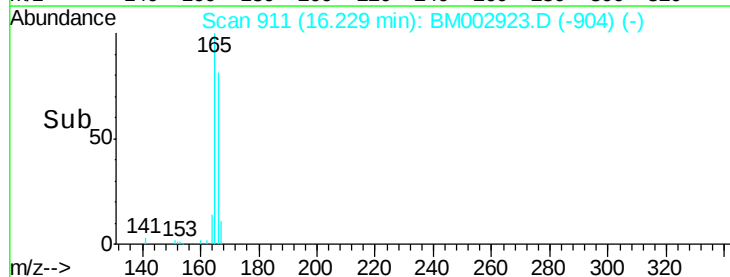
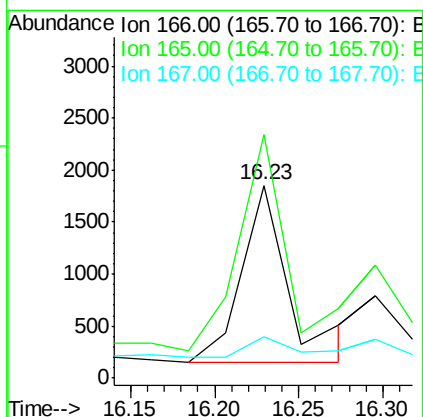
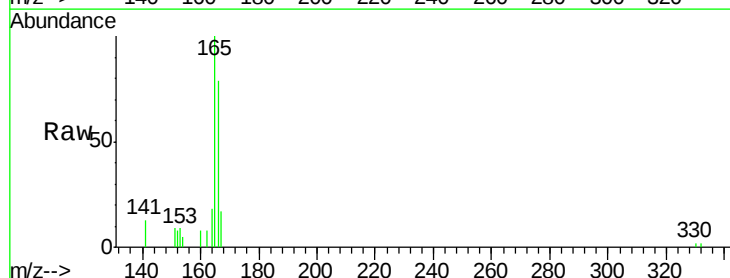
Instrument :
BNA_M
ClientSampleId :
RAV-GT-104

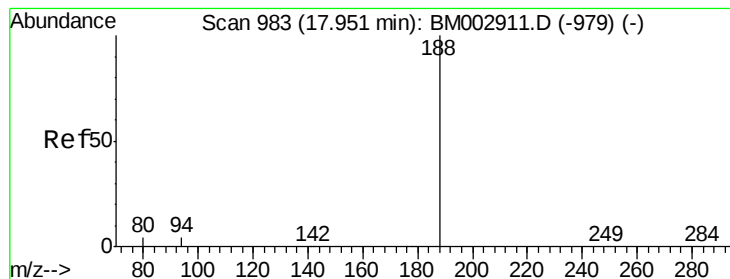
Tot Ion:154 Resp: 6817
Ion Ratio Lower Upper
154 100
153 97.1 0.0 0.0#
152 49.2 0.0 0.0#



#18
Fluorene
Concen: 0.05 ng
RT: 16.23 min Scan# 911
Delta R.T. -0.05 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Tgt Ion:166 Resp: 3325
Ion Ratio Lower Upper
166 100
165 127.0 77.3 115.9#
167 12.4 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.95 min Scan# 983

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

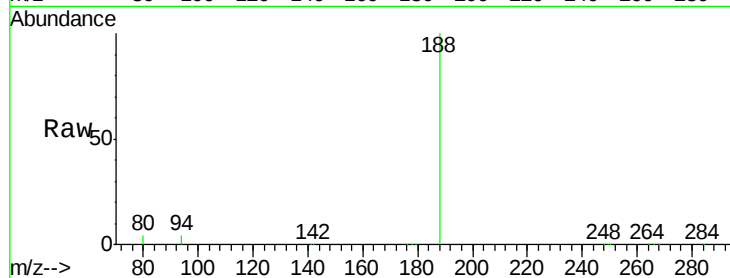
Tot Ion:188 Resp: 451919

Ion Ratio Lower Upper

188 100

94 4.2 15.2 22.8#

80 3.5 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

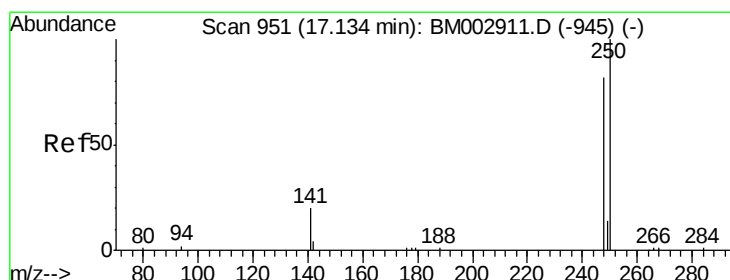
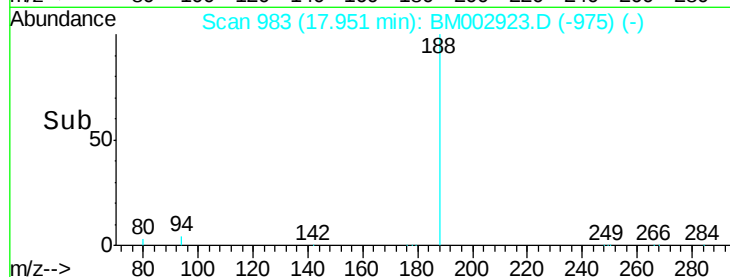
17.95

200000

100000

0

Time--> 17.80 17.90 18.00



#20

4-Bromophenyl-phenylether

Concen: 0.06 ng

RT: 17.13 min Scan# 951

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

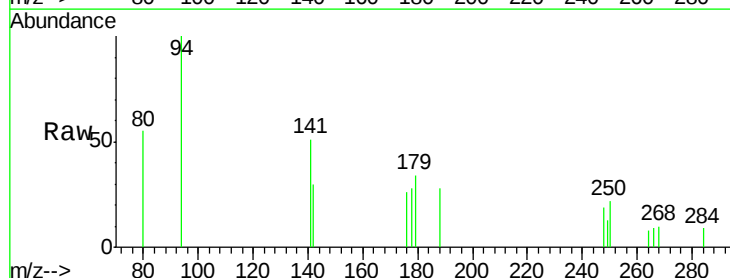
Tgt Ion:248 Resp: 1031

Ion Ratio Lower Upper

248 100

250 32.7 71.4 107.2#

141 0.0 54.6 82.0#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

17.13

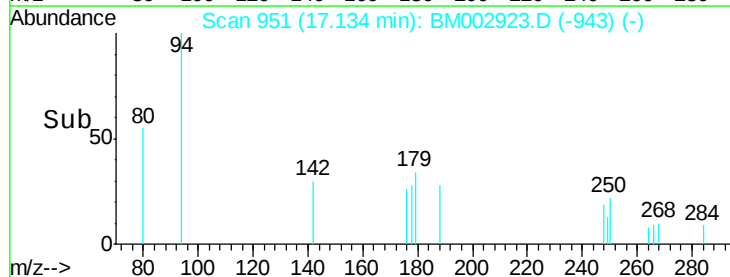
1500

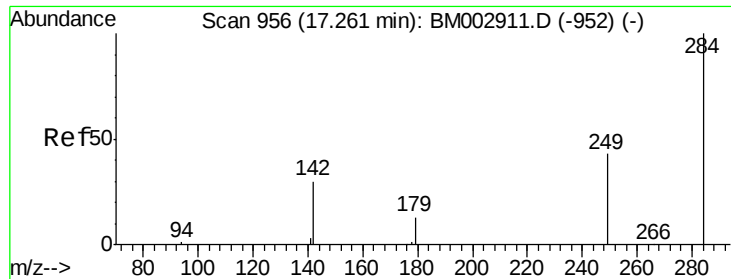
1000

500

0

Time--> 17.00 17.20

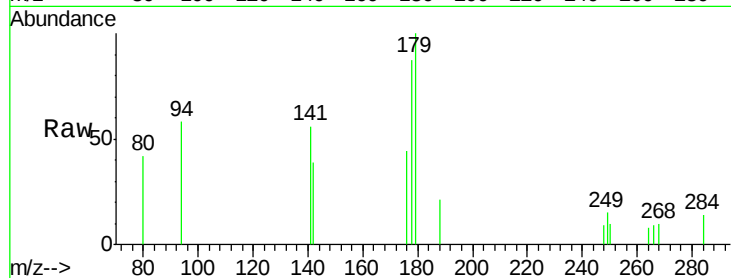




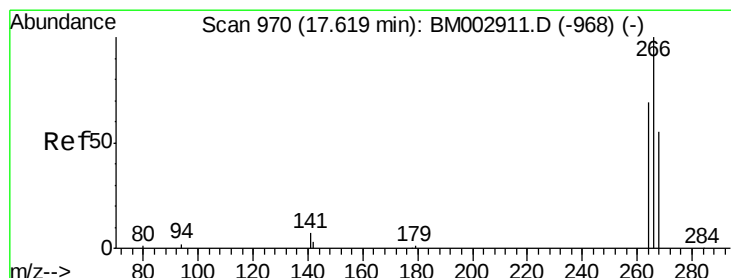
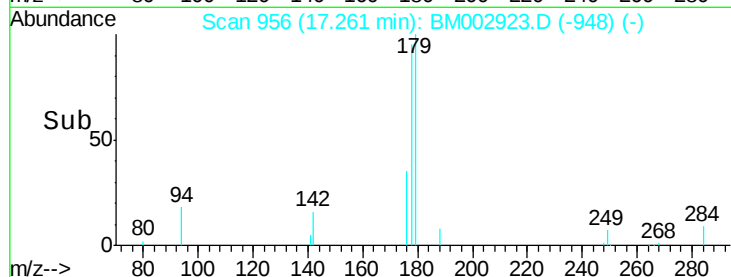
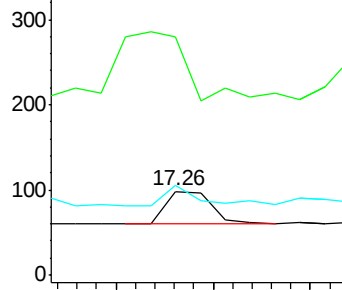
#21
Hexachlorobenzene
Concen: Below Cal
RT: 17.26 min Scan# 956
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Instrument :
BNA_M
ClientSampleId :
RAV-GT-104

Tot Ion:284 Resp: 124
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 55.6 20.7 31.1#

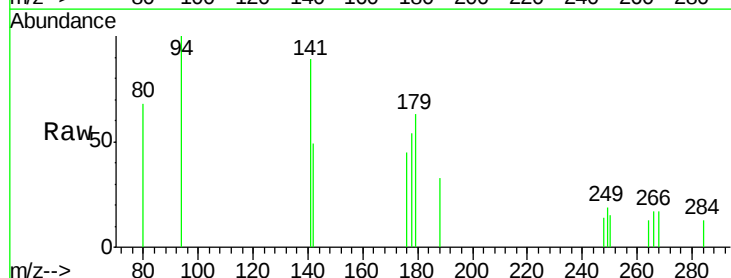


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

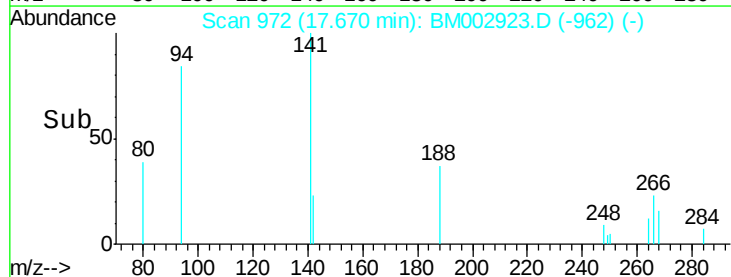
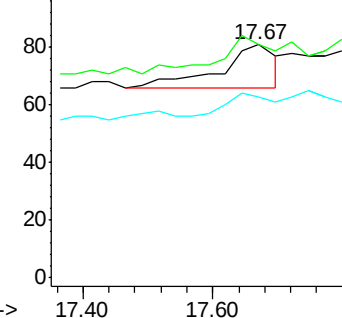


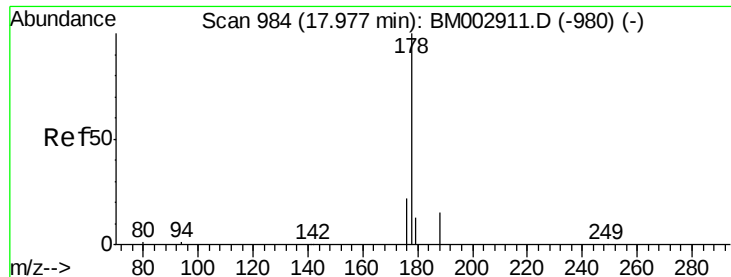
#22
Pentachlorophenol
Concen: 0.28 ng
RT: 17.67 min Scan# 972
Delta R.T. 0.05 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Tgt Ion:266 Resp: 92
Ion Ratio Lower Upper
266 100
268 100.0 58.3 87.5#
264 77.8 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

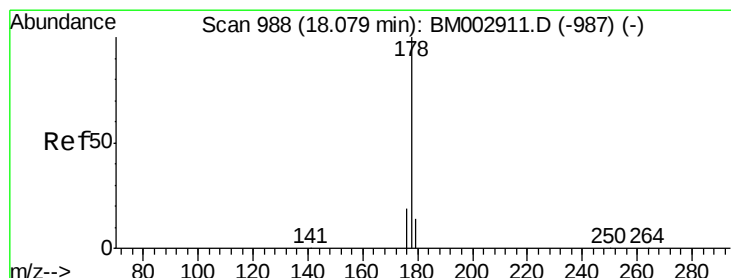
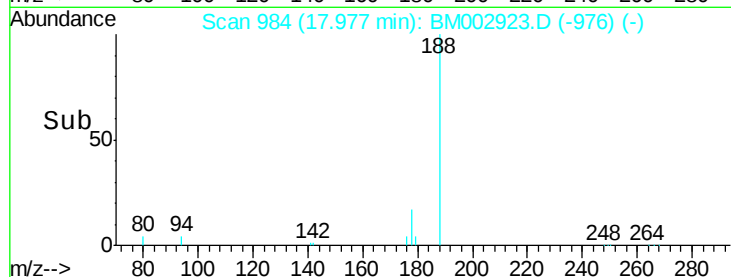
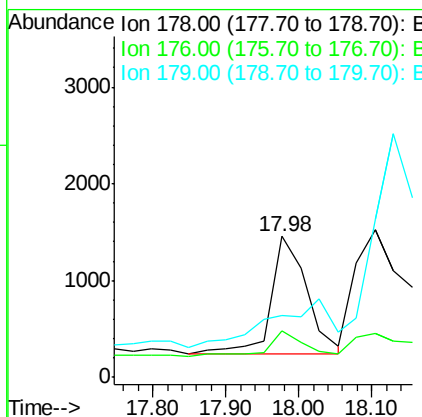
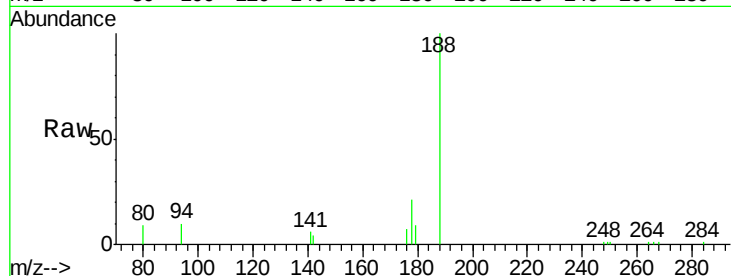




#23
Phenanthrene
Concen: 0.04 ng
RT: 17.98 min Scan# 984
Delta R.T. -0.00 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

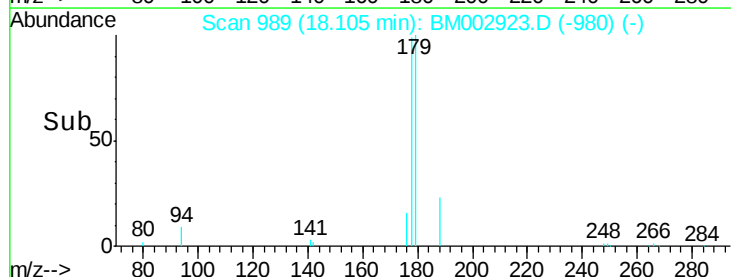
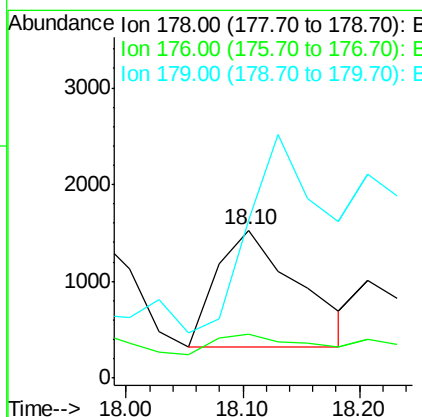
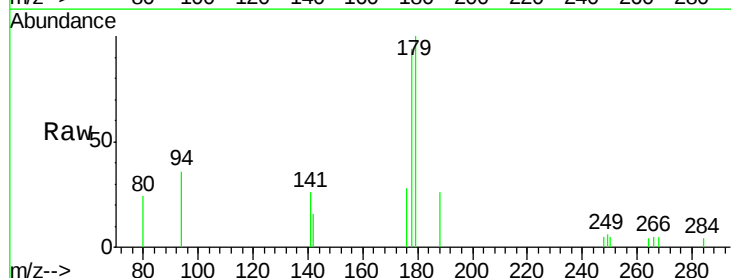
Instrument :
BNA_M
ClientSampleId :
RAV-GT-104

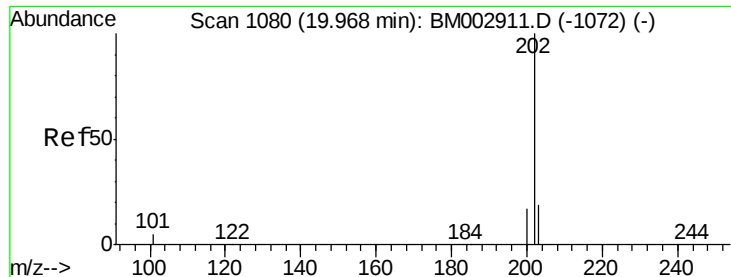
Tot Ion:178 Resp: 4219
Ion Ratio Lower Upper
178 100
176 22.1 14.6 21.8#
179 0.0 12.5 18.7#



#24
Anthracene
Concen: 0.06 ng
RT: 18.10 min Scan# 989
Delta R.T. 0.02 min
Lab File: BM002923.D
Acq: 15 Oct 2015 20:34

Tgt Ion:178 Resp: 5821
Ion Ratio Lower Upper
178 100
176 19.4 13.9 20.9
179 0.0 12.6 18.8#

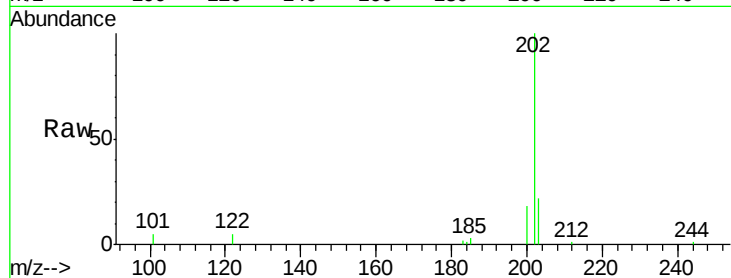




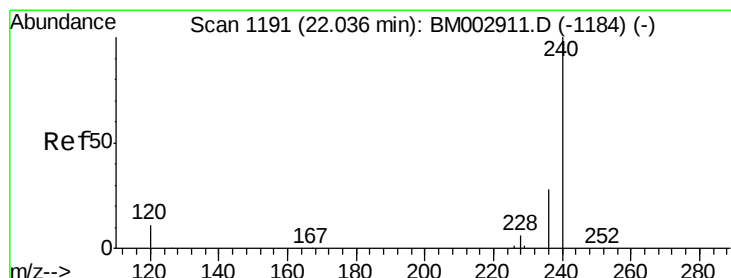
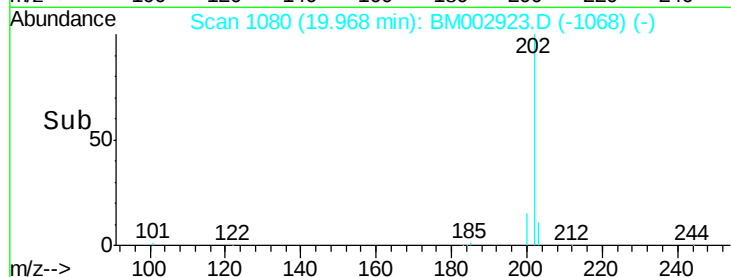
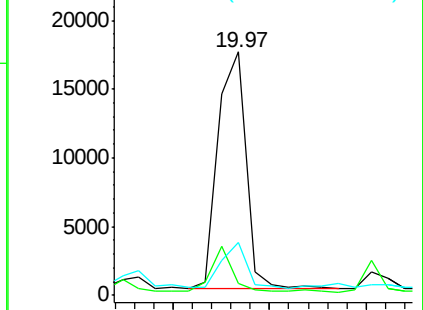
#25
 Fluoranthene
 Concen: 0.30 ng
 RT: 19.97 min Scan# 1080
 Delta R.T. 0.01 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104

Tot Ion:202 Resp: 34838
 Ion Ratio Lower Upper
 202 100
 101 13.8 11.0 16.6
 203 17.1 13.8 20.6

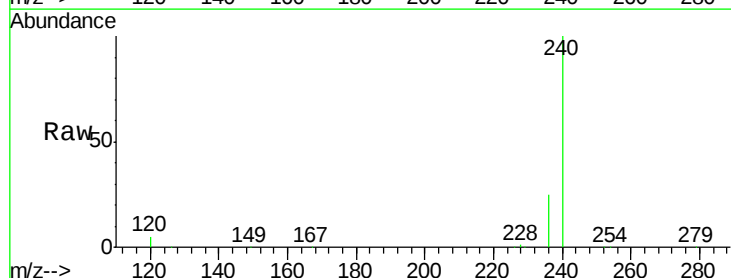


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

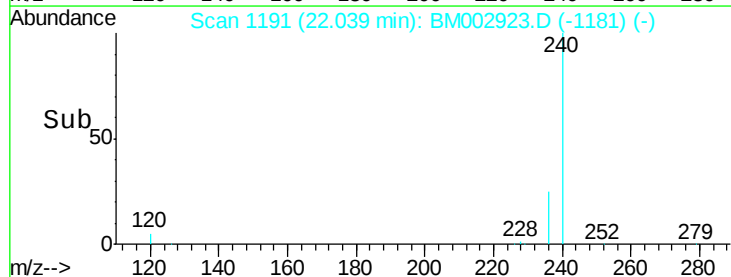
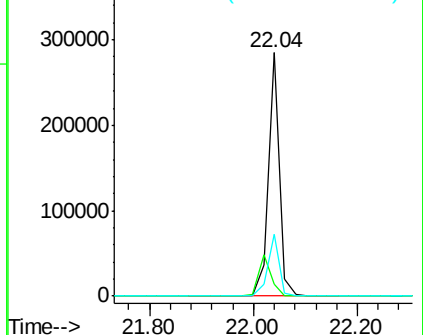


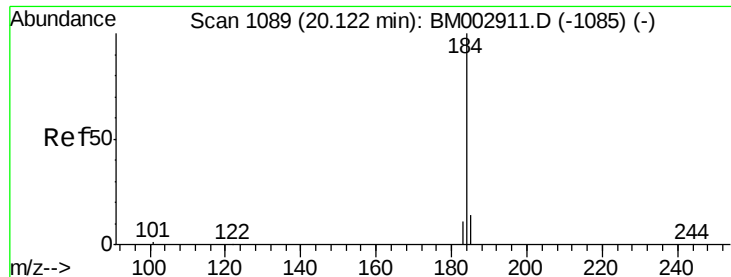
#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 22.04 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

Tgt Ion:240 Resp: 423041
 Ion Ratio Lower Upper
 240 100
 120 4.8 3.3 4.9
 236 25.4 19.5 29.3



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.16 ng

RT: 20.14 min Scan# 1090

Delta R.T. 0.01 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

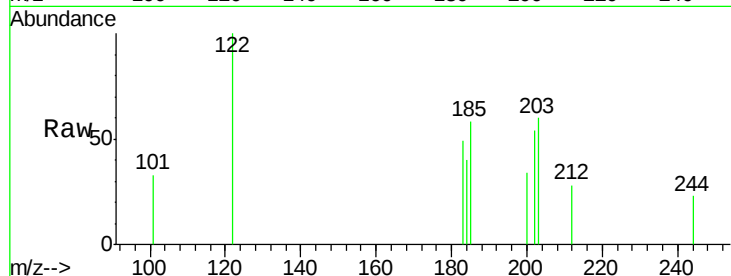
Tot Ion:184 Resp: 316

Ion Ratio Lower Upper

184 100

185 145.1 12.0 18.0#

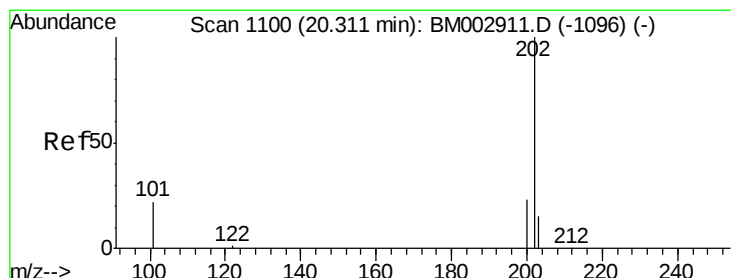
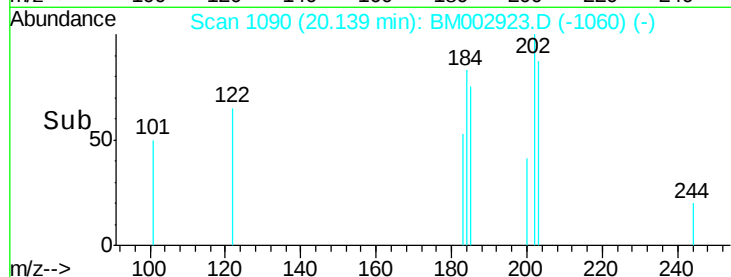
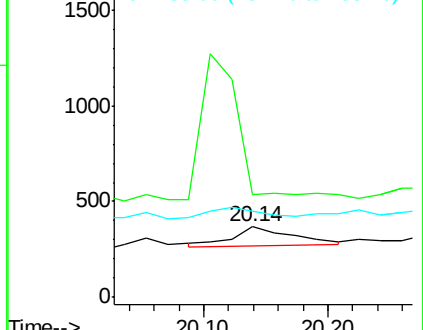
183 122.8 8.9 13.3#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: 0.89 ng

RT: 20.31 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

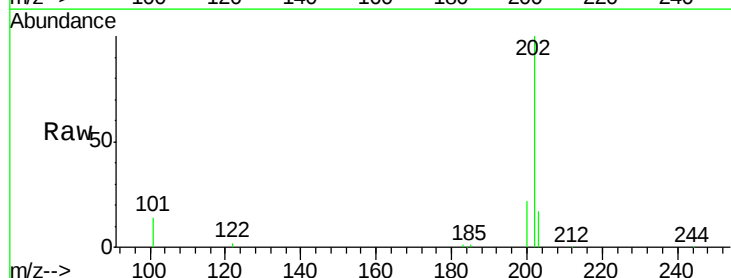
Tgt Ion:202 Resp: 111294

Ion Ratio Lower Upper

202 100

200 20.8 16.2 24.4

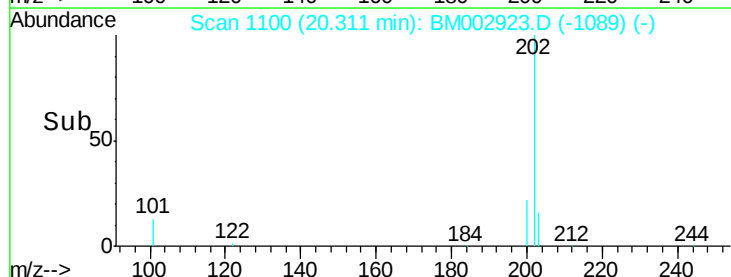
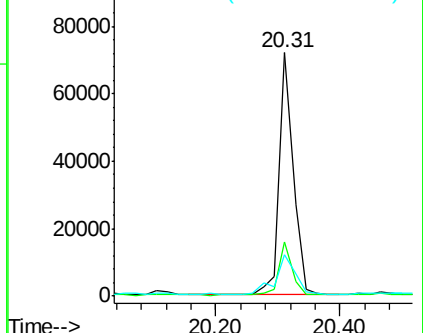
203 21.8 13.8 20.8#

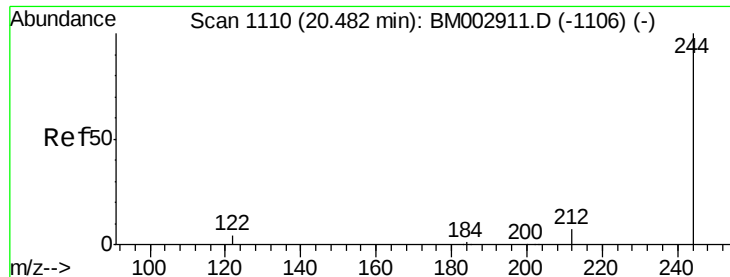


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 4.32 ng

RT: 20.48 min Scan# 1110

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

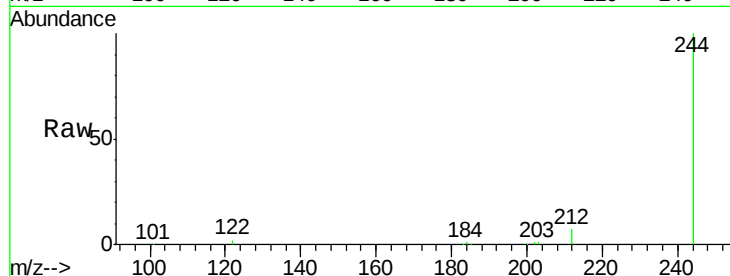
Tot Ion:244 Resp: 273546

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

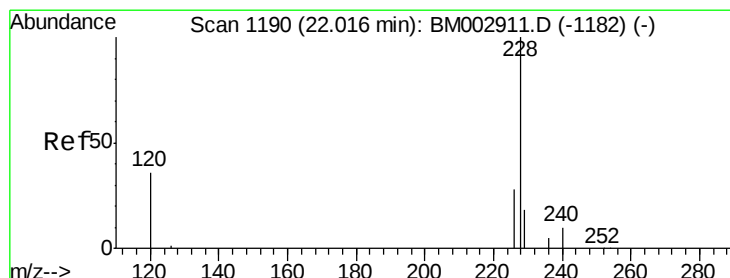
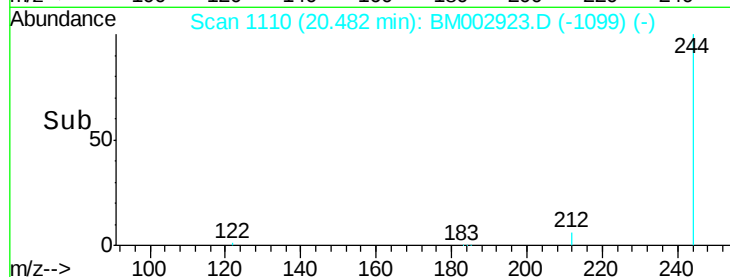
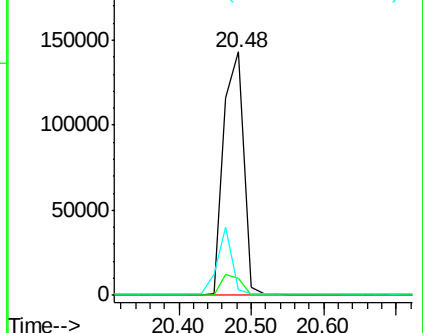
122 2.0 2.2 3.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.17 ng

RT: 22.02 min Scan# 1190

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

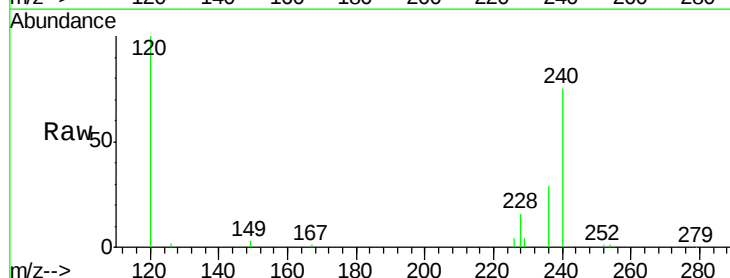
Tgt Ion:228 Resp: 20548

Ion Ratio Lower Upper

228 100

226 27.4 19.0 28.6

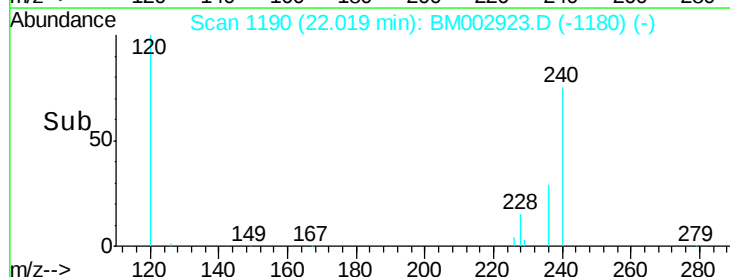
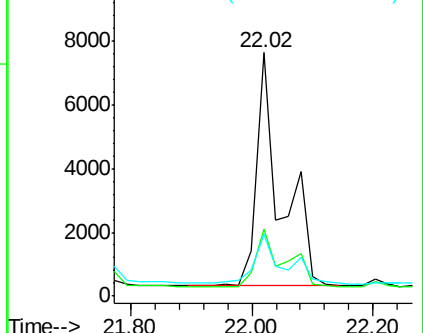
229 25.2 16.8 25.2

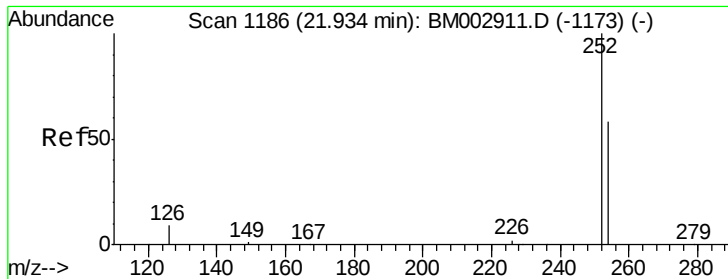


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

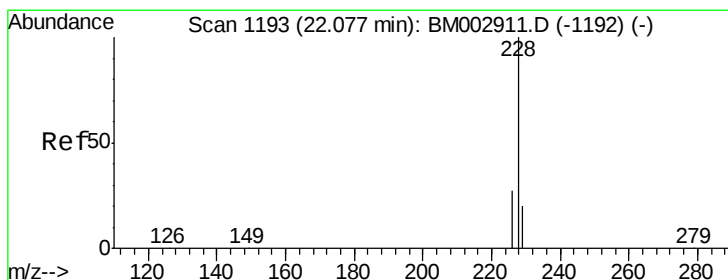
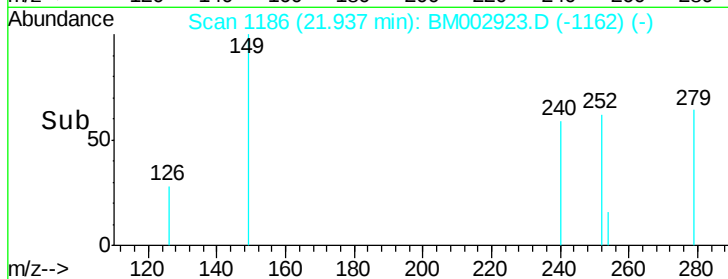
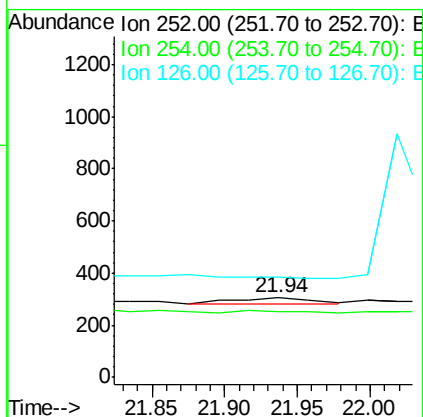
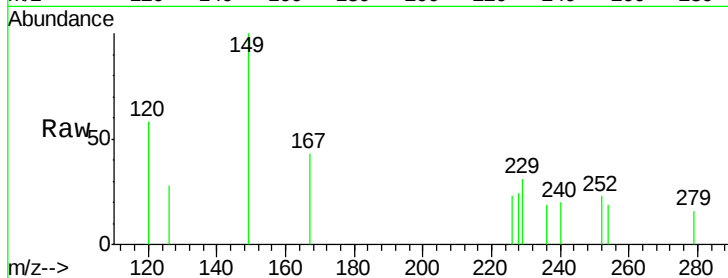




#31
 3,3'-Dichlorobenzidine
 Concen: 0.00 ng
 RT: 21.94 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

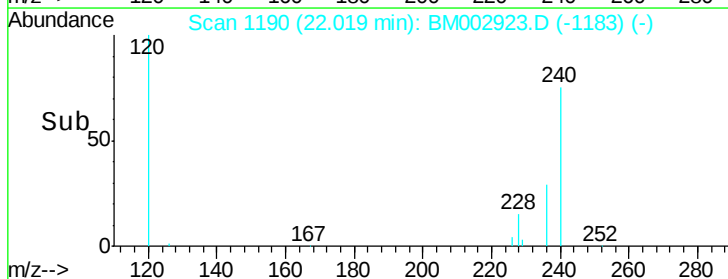
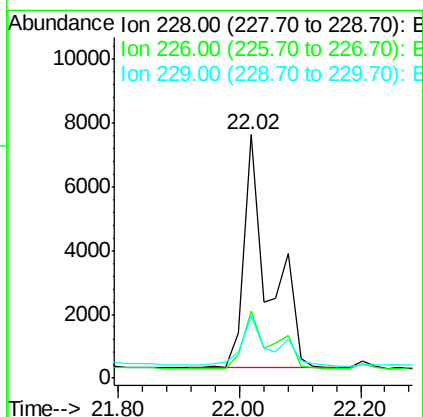
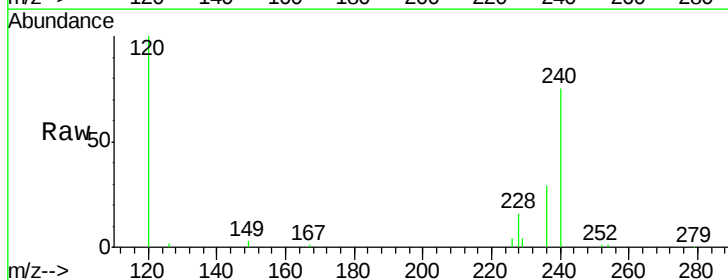
Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104

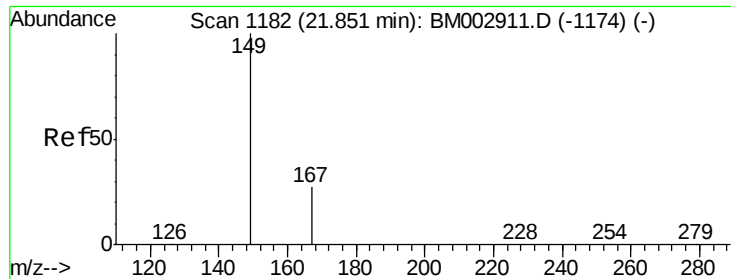
Tot Ion:252 Resp: 87
 Ion Ratio Lower Upper
 252 100
 254 83.3 54.1 81.1#
 126 126.6 4.1 6.1#



#32
 Chrysene
 Concen: 0.18 ng
 RT: 22.02 min Scan# 1190
 Delta R.T. -0.07 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

Tgt Ion:228 Resp: 20484
 Ion Ratio Lower Upper
 228 100
 226 27.4 20.6 30.8
 229 25.2 17.4 26.2





#33

Bis(2-ethylhexyl)phthalate

Concen: 0.37 ng

RT: 21.85 min Scan# 1182

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

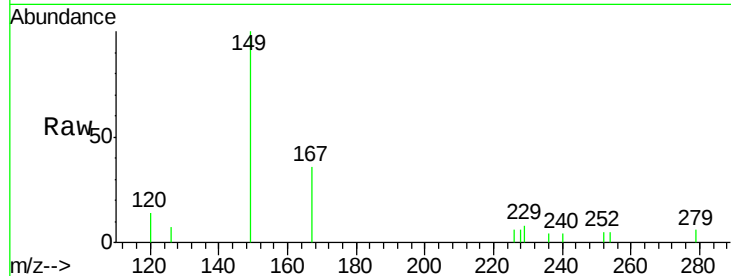
Tot Ion:149 Resp: 7119

Ion Ratio Lower Upper

149 100

167 30.0 17.2 25.8#

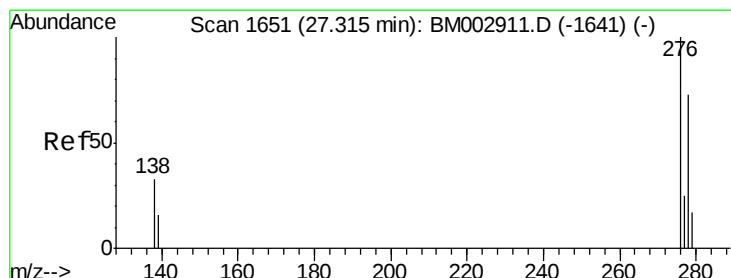
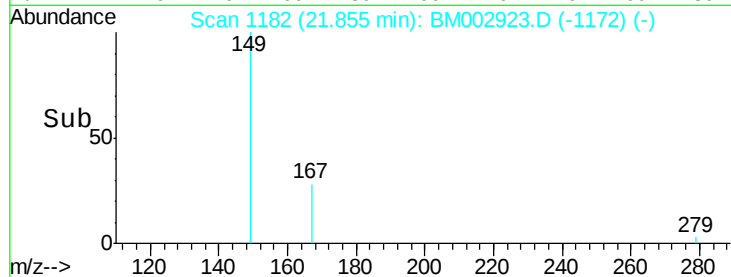
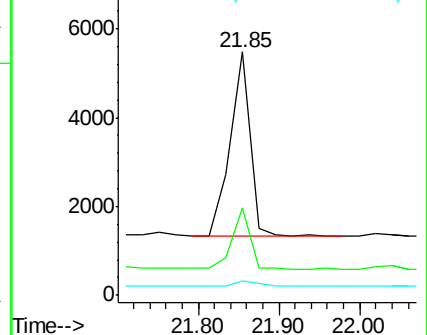
279 4.9 2.2 3.4#



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: 0.01 ng

RT: 27.34 min Scan# 1654

Delta R.T. 0.03 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

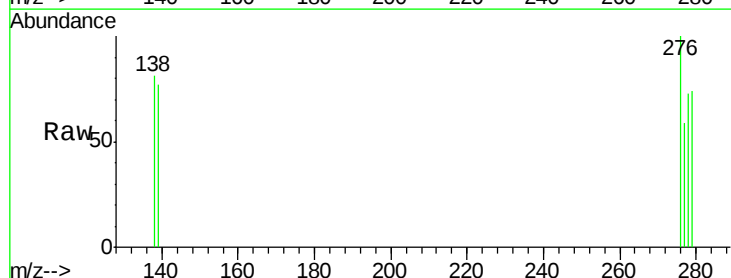
Tgt Ion:276 Resp: 713

Ion Ratio Lower Upper

276 100

138 43.9 29.0 43.6#

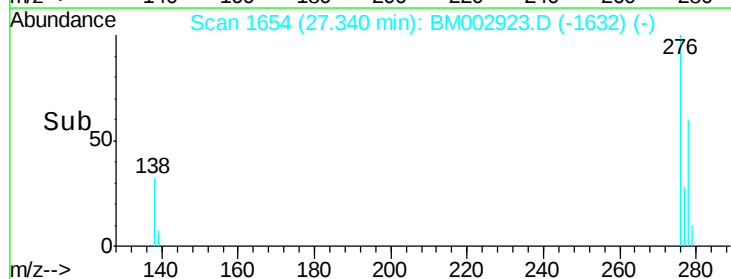
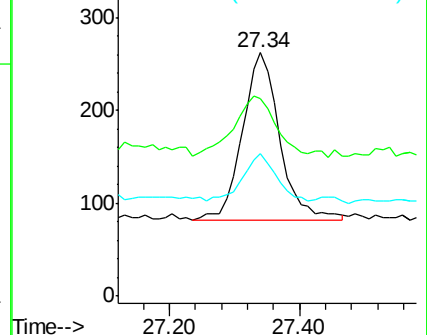
277 24.3 19.8 29.8

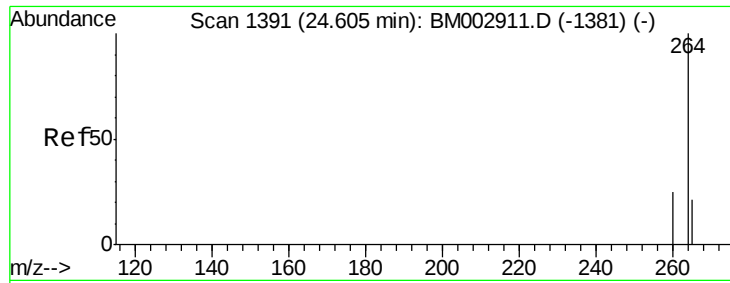


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

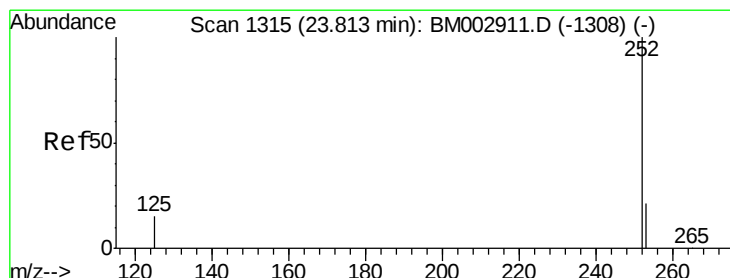
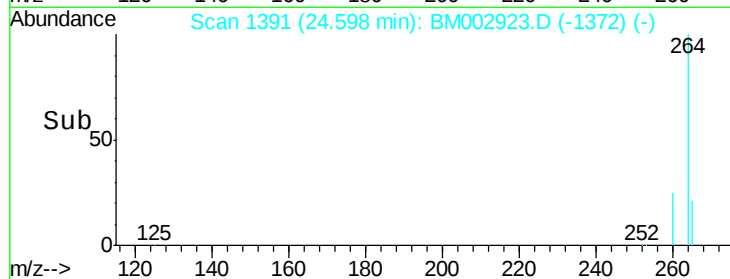
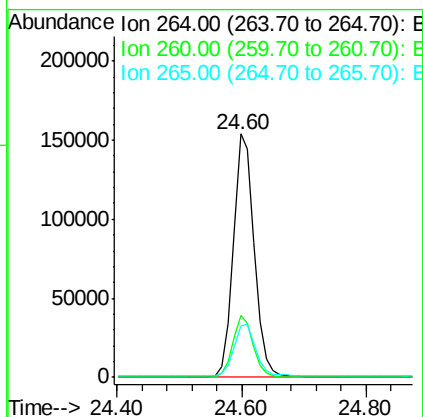
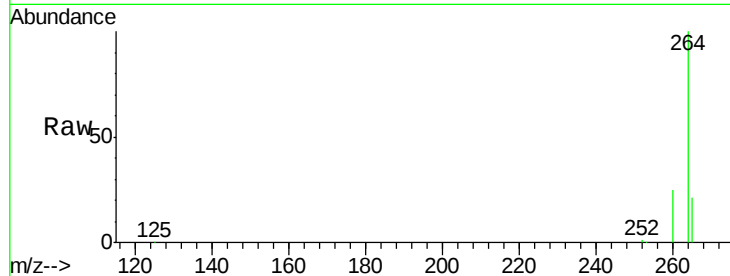




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.60 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

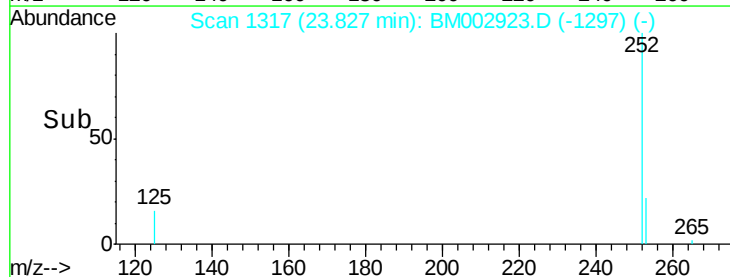
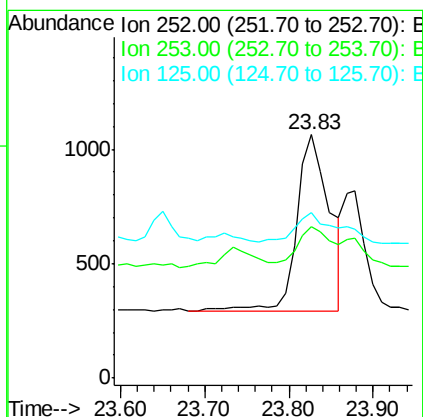
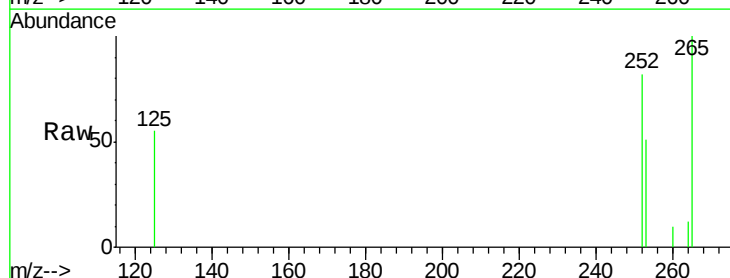
Instrument :
 BNA_M
 ClientSampleId :
 RAV-GT-104

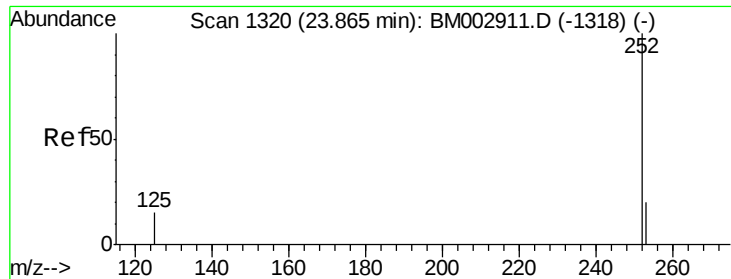
Tot Ion:264 Resp: 360942
 Ion Ratio Lower Upper
 264 100
 260 25.5 20.1 30.1
 265 21.4 17.6 26.4



#36
 Benzo(b)fluoranthene
 Concen: 0.02 ng
 RT: 23.83 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: BM002923.D
 Acq: 15 Oct 2015 20:34

Tgt Ion:252 Resp: 2097
 Ion Ratio Lower Upper
 252 100
 253 62.0 17.5 26.3#
 125 67.9 12.4 18.6#





#37

Benzo(k)fluoranthene

Concen: 0.02 ng

RT: 23.83 min Scan# 1317

Delta R.T. -0.05 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

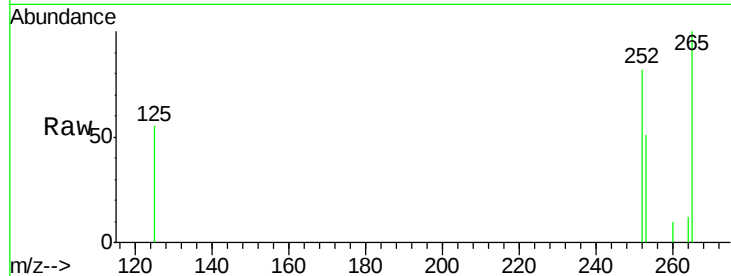
Tot Ion:252 Resp: 2087

Ion Ratio Lower Upper

252 100

253 62.0 17.9 26.9#

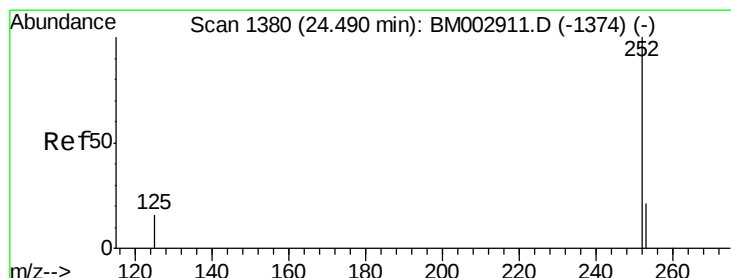
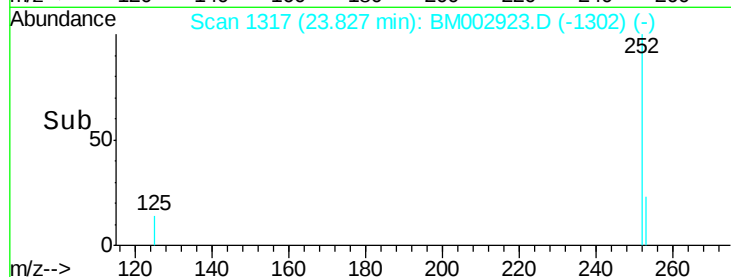
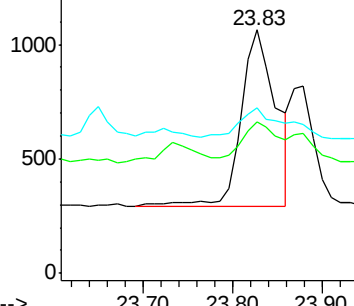
125 67.9 12.3 18.5#



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



#38

Benzo(a)pyrene

Concen: 0.01 ng

RT: 24.49 min Scan# 1381

Delta R.T. -0.00 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

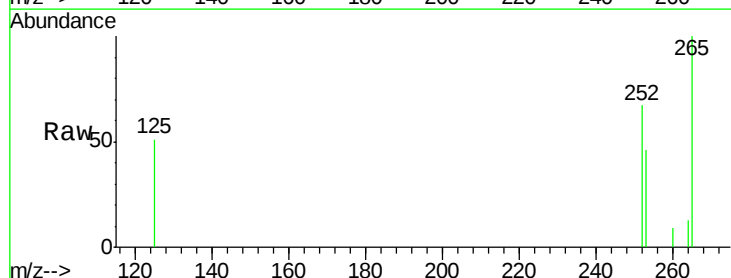
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 69.2 18.4 27.6#

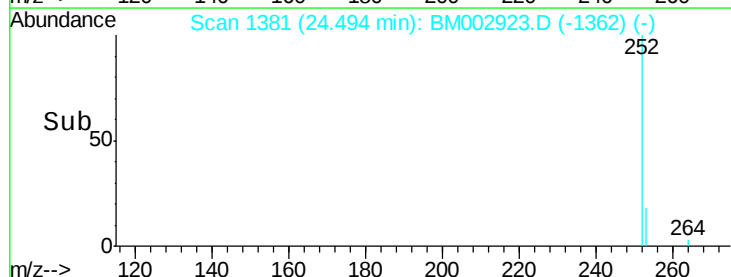
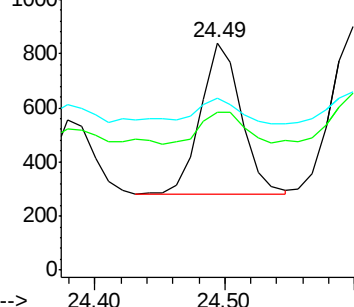
125 75.6 13.3 19.9#

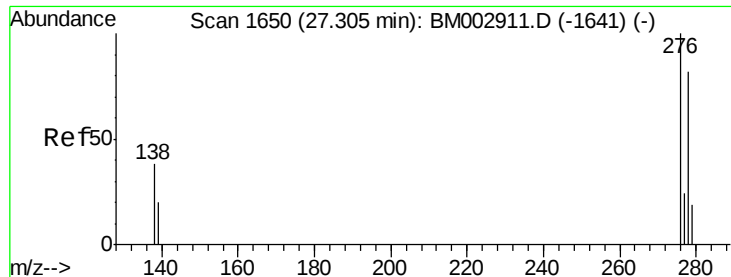


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 0.01 ng

RT: 27.33 min Scan# 1653

Delta R.T. 0.02 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Instrument :

BNA_M

ClientSampleId :

RAV-GT-104

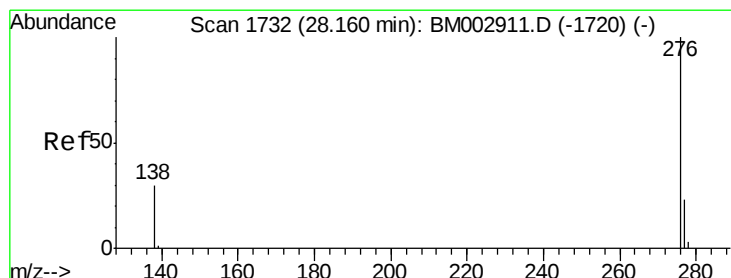
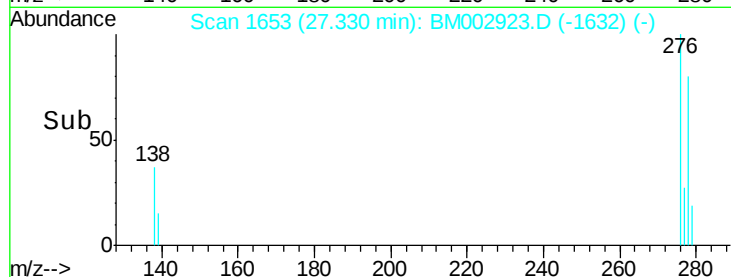
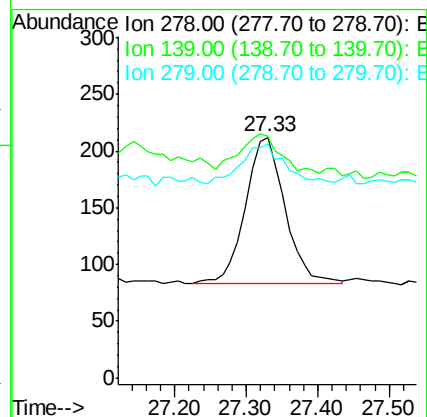
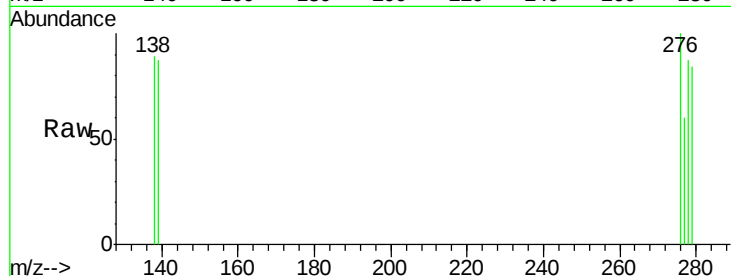
Tot Ion:278 Resp: 498

Ion Ratio Lower Upper

278 100

139 100.5 19.8 29.6#

279 97.2 19.1 28.7#



#40

Benzo(g,h,i)perylene

Concen: 0.01 ng

RT: 28.17 min Scan# 1734

Delta R.T. 0.02 min

Lab File: BM002923.D

Acq: 15 Oct 2015 20:34

Tgt Ion:276 Resp: 639

Ion Ratio Lower Upper

276 100

277 58.3 19.4 29.0#

138 86.4 24.4 36.6#

