

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100815\
 Data File : BM002877.D
 Acq On : 08 Oct 2015 23:23
 Operator : UM/IZ
 Sample : G3692-22
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

Quant Time: Oct 09 04:01:26 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM100815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 09 02:41:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.68	152	58435	5.00	ng	0.00
7) Naphthalene-d8	11.52	136	242607	5.00	ng	0.00
13) Acenaphthene-d10	15.26	164	127067	5.00	ng	0.00
19) Phenanthrene-d10	17.96	188	316873	5.00	ng	0.00
26) Chrysene-d12	22.04	240	310244	5.00	ng	-0.01
35) Perylene-d12	24.62	264	306634	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	6.13	112	97505	7.81	ng	-0.02
5) Phenol-d6	7.79	99	132519	8.58	ng	-0.02
8) Nitrobenzene-d5	9.87	82	51751	4.24	ng	0.00
14) 2,4,6-Tribromophenol	16.72	330	36474	8.67	ng	-0.02
15) 2-Fluorobiphenyl	13.89	172	178697	4.64	ng	0.00
29) Terphenyl-d14	20.49	244	194759	4.71	ng	-0.01

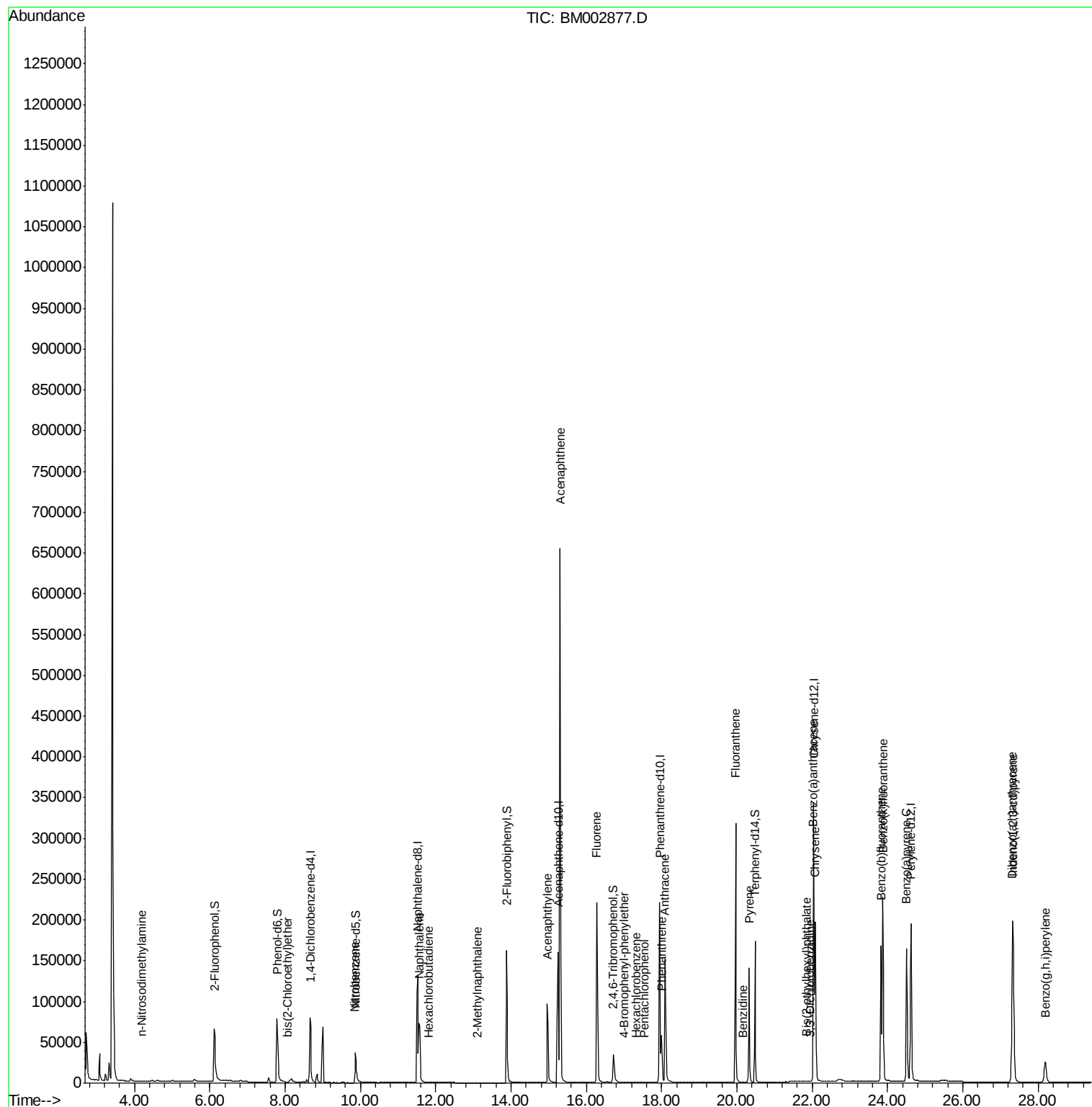
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.89	88	33	Below Cal	#	1
3) n-Nitrosodimethylamine	4.19	42	25	0.01 ng	#	1
6) bis(2-Chloroethyl)ether	8.06	93	150	0.01 ng	#	25
9) Nitrobenzene	9.86	77	216	0.02 ng	#	15
10) Naphthalene	11.56	128	141966	2.64 ng	#	96
11) Hexachlorobutadiene	11.81	225	22	0.00 ng	#	35
12) 2-Methylnaphthalene	13.11	142	7	0.00 ng	#	1
16) Acenaphthylene	14.97	152	183365	3.40 ng	#	86
17) Acenaphthene	15.30	154	389091	11.17 ng	#	100
18) Fluorene	16.28	166	195378	4.58 ng	#	97
20) 4-Bromophenyl-phenylether	17.01	248	238	0.02 ng	#	10
21) Hexachlorobenzene	17.32	284	21	0.00 ng	#	49
22) Pentachlorophenol	17.55	266	3	0.03 ng	#	75
23) Phenanthrene	18.01	178	80860	0.87 ng	#	78
24) Anthracene	18.08	178	258263	3.29 ng	#	90
25) Fluoranthene	19.97	202	326602	3.18 ng	#	99
27) Benzdine	20.16	184	445	0.18 ng	#	1
28) Pyrene	20.33	202	156897	1.87 ng	#	99
30) Benzo(a)anthracene	22.02	228	290624	3.26 ng	#	90
31) 3,3'-Dichlorobenzidine	21.96	252	172	0.01 ng	#	78
32) Chrysene	22.08	228	194217	2.33 ng	#	93
33) Bis(2-ethylhexyl)phthalate	21.86	149	985	0.02 ng	#	98
34) Indeno(1,2,3-cd)pyrene	27.33	276	154748	1.55 ng	#	86
36) Benzo(b)fluoranthene	23.83	252	239903	2.73 ng	#	99
37) Benzo(k)fluoranthene	23.88	252	339249	4.00 ng	#	98
38) Benzo(a)pyrene	24.51	252	268514	3.33 ng	#	98
39) Dibenzo(a,h)anthracene	27.32	278	302882	3.85 ng	#	99
40) Benzo(g,h,i)perylene	28.19	276	64290	0.79 ng	#	98

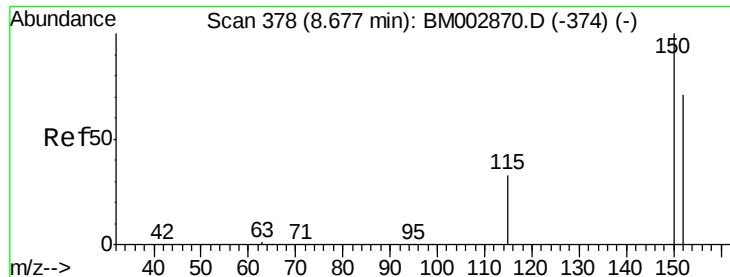
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.68 min Scan# 378

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

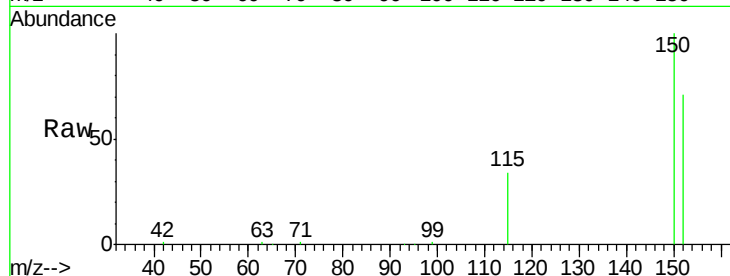
Tot Ion:152 Resp: 58435

Ion Ratio Lower Upper

152 100

150 140.7 113.0 169.6

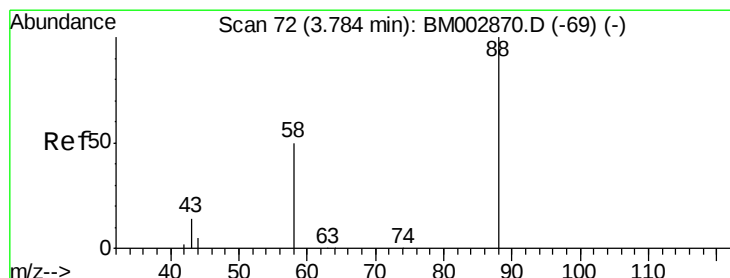
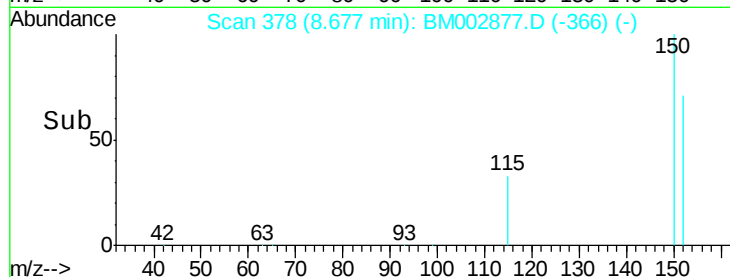
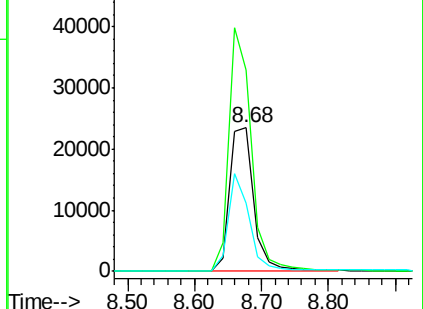
115 47.2 37.9 56.9



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: Below Cal

RT: 3.89 min Scan# 79

Delta R.T. 0.11 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

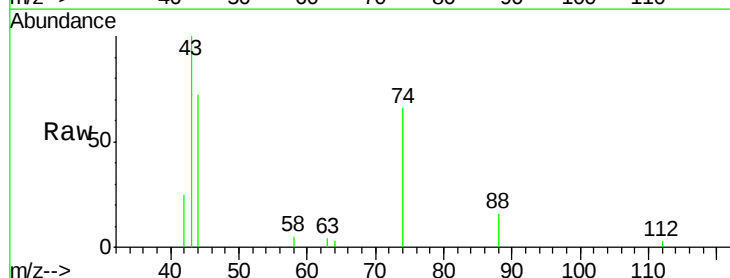
Tgt Ion: 88 Resp: 33

Ion Ratio Lower Upper

88 100

58 0.0 56.7 85.1#

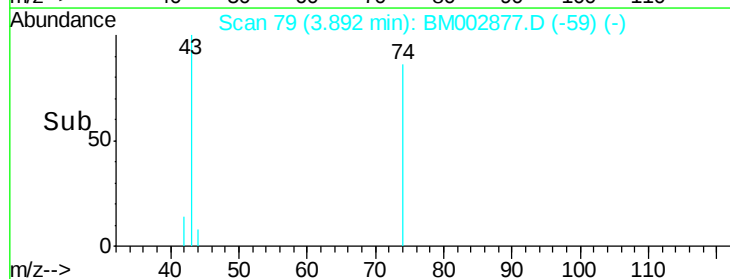
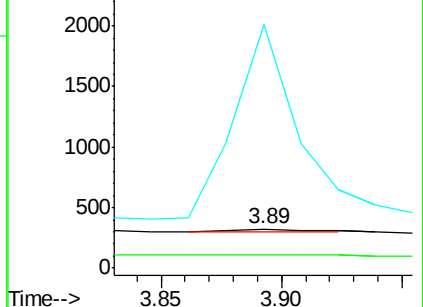
43 8748.5 22.0 33.0#

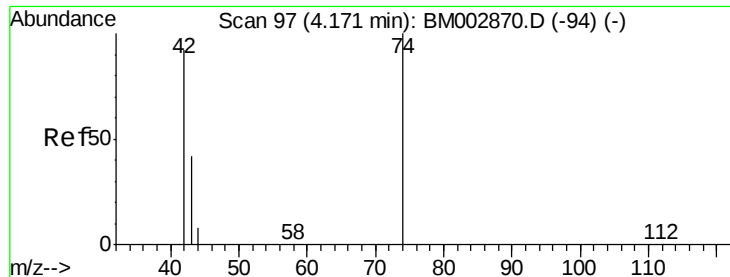


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 0.01 ng

RT: 4.19 min Scan# 98

Delta R.T. 0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

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BNA_M

ClientSampleId :

RR-PAH-WP

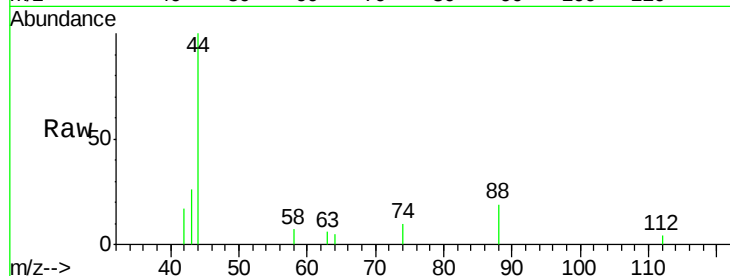
Tot Ion: 42 Resp: 25

Ion Ratio Lower Upper

42 100

74 0.0 119.7 179.5#

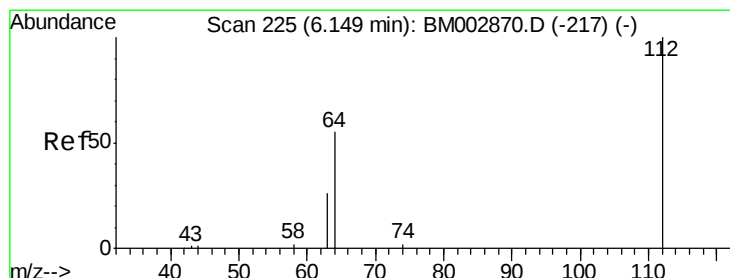
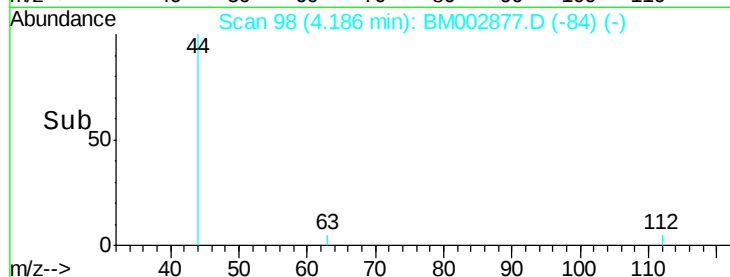
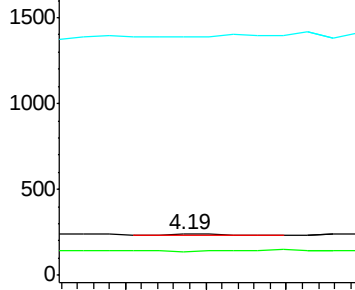
44 0.0 9.8 14.6#



Abundance Ion 42.00 (41.70 to 42.70): BM002870.D (-94) (-)

Ion 74.00 (73.70 to 74.70): BM002870.D (-94) (-)

Ion 44.00 (43.70 to 44.70): BM002870.D (-94) (-)



#4

2-Fluorophenol

Concen: 7.81 ng

RT: 6.13 min Scan# 224

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

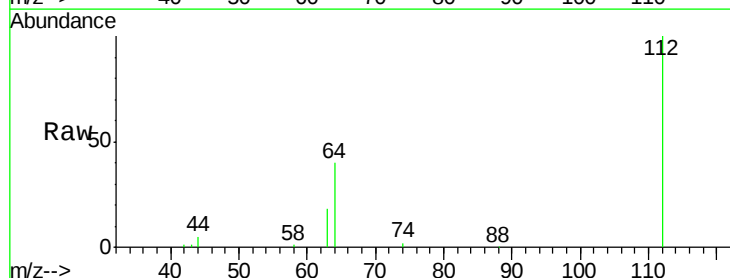
Tgt Ion: 112 Resp: 97505

Ion Ratio Lower Upper

112 100

64 51.8 42.0 63.0

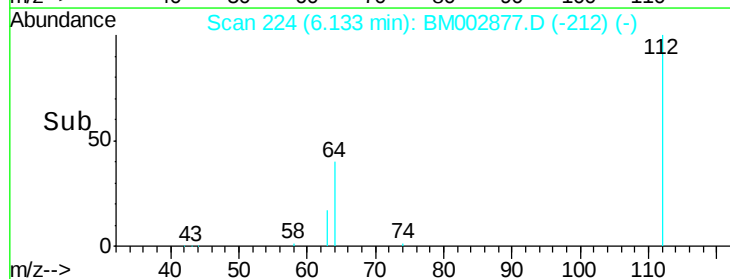
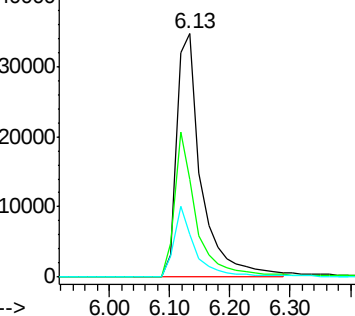
63 24.6 20.0 30.0

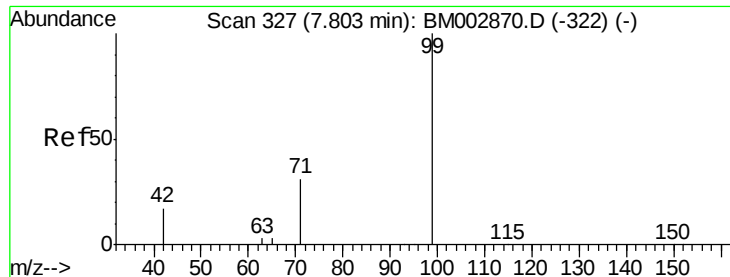


Abundance Ion 112.00 (111.70 to 112.70): BM002870.D (-217) (-)

Ion 64.00 (63.70 to 64.70): BM002870.D (-217) (-)

Ion 63.00 (62.70 to 63.70): BM002870.D (-217) (-)





#5

Phenol-d6

Concen: 8.58 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

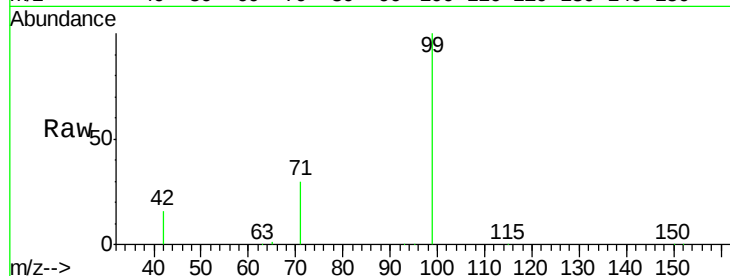
Tot Ion: 99 Resp: 132519

Ion Ratio Lower Upper

99 100

42 15.4 12.4 18.6

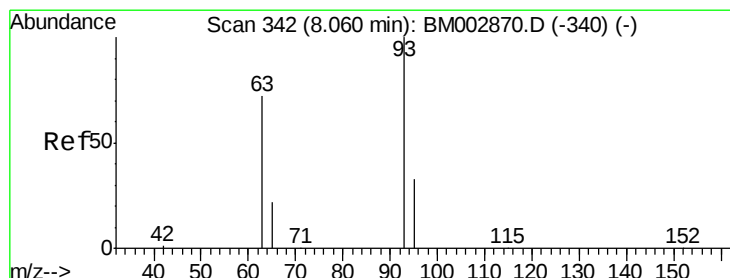
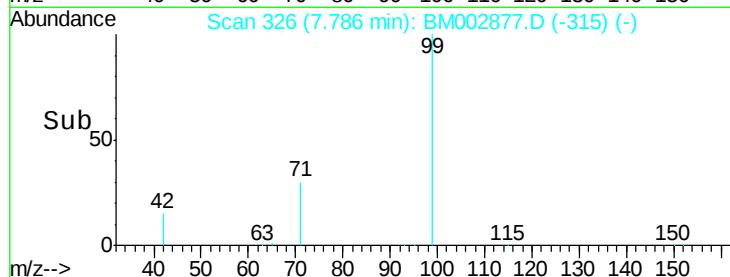
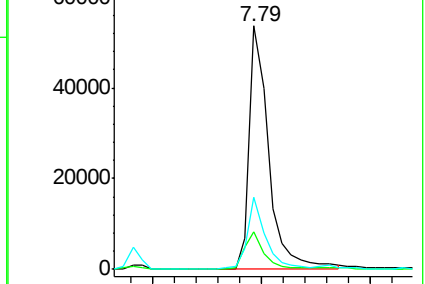
71 27.7 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002877.D (-315) (-)

Ion 42.00 (41.70 to 42.70): BM002877.D (-315) (-)

Ion 71.00 (70.70 to 71.70): BM002877.D (-315) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.01 ng

RT: 8.06 min Scan# 342

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

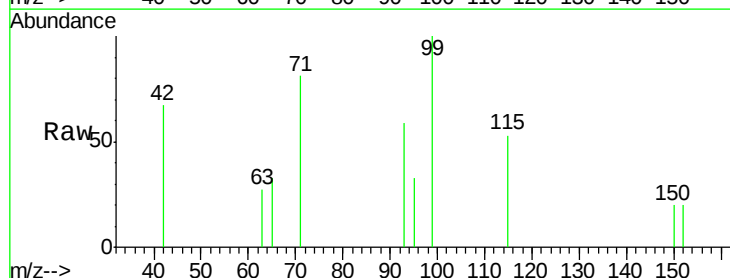
Tgt Ion: 93 Resp: 150

Ion Ratio Lower Upper

93 100

63 0.0 52.9 79.3#

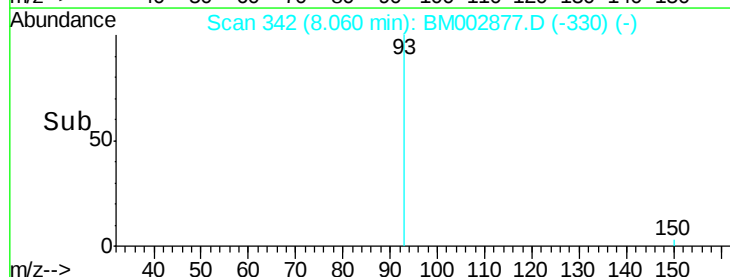
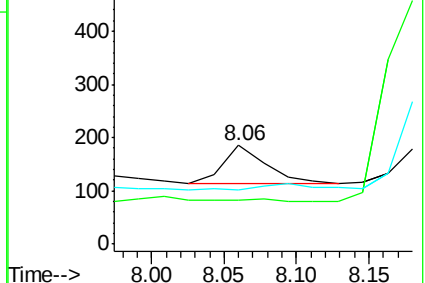
95 0.0 25.2 37.8#

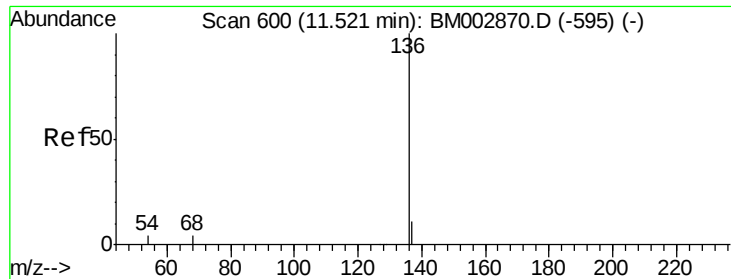


Abundance Ion 93.00 (92.70 to 93.70): BM002877.D (-330) (-)

Ion 63.00 (62.70 to 63.70): BM002877.D (-330) (-)

Ion 95.00 (94.70 to 95.70): BM002877.D (-330) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.52 min Scan# 600

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

Tot Ion:136 Resp: 242607

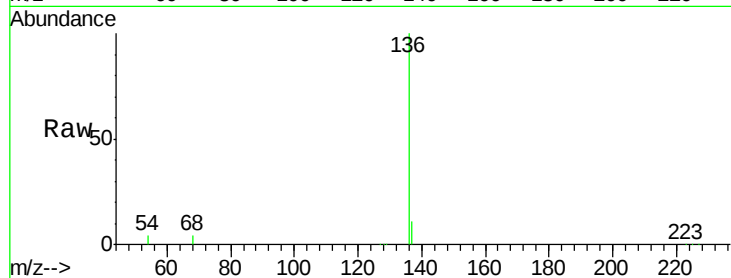
Ion Ratio Lower Upper

136 100

137 11.4 9.1 13.7

54 4.1 3.5 5.3

68 3.9 3.3 4.9

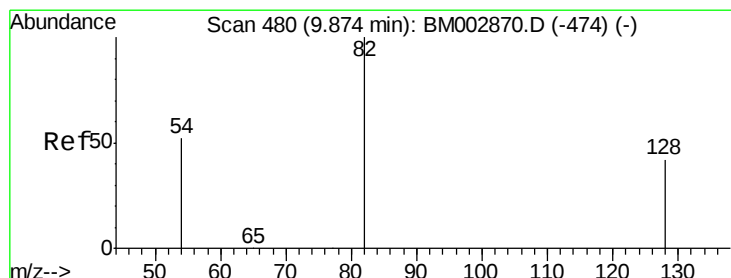
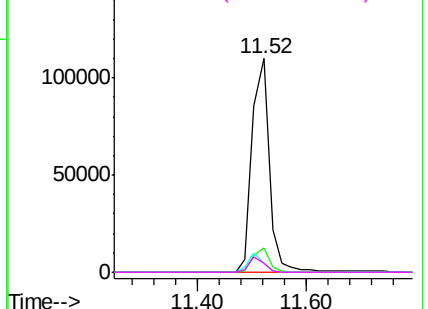
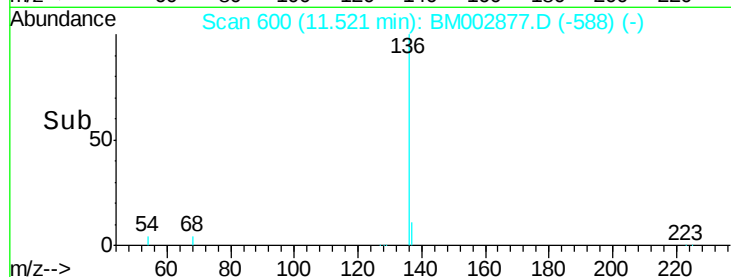


Abundance Ion 136.00 (135.70 to 136.70): E

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: 4.24 ng

RT: 9.87 min Scan# 480

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

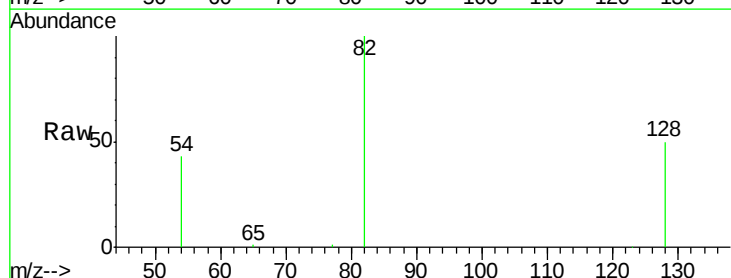
Tgt Ion: 82 Resp: 51751

Ion Ratio Lower Upper

82 100

128 50.3 34.1 51.1

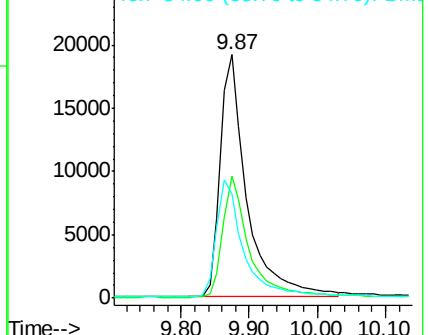
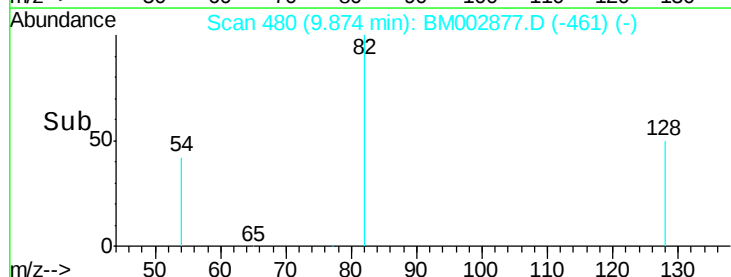
54 42.7 42.6 63.8

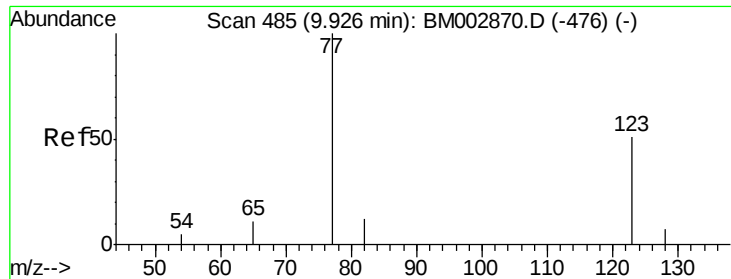


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.02 ng

RT: 9.86 min Scan# 479

Delta R.T. -0.06 min

Lab File: BM002877.D

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Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

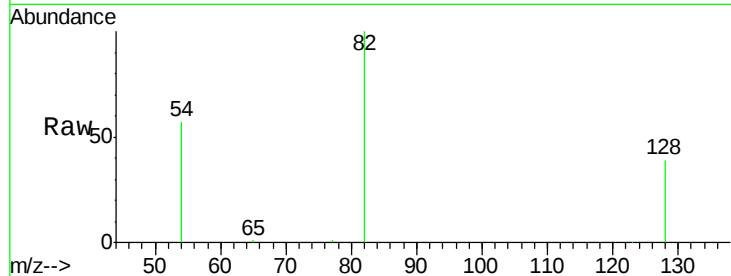
Tot Ion: 77 Resp: 216

Ion Ratio Lower Upper

77 100

123 2.8 41.0 61.4#

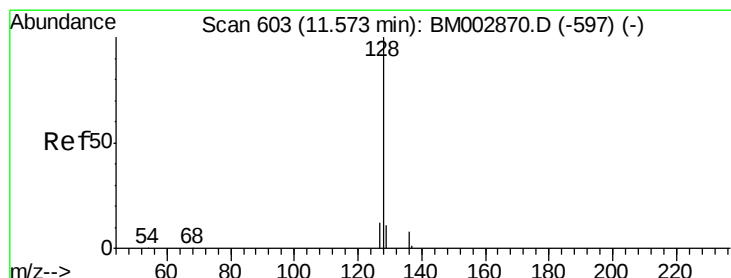
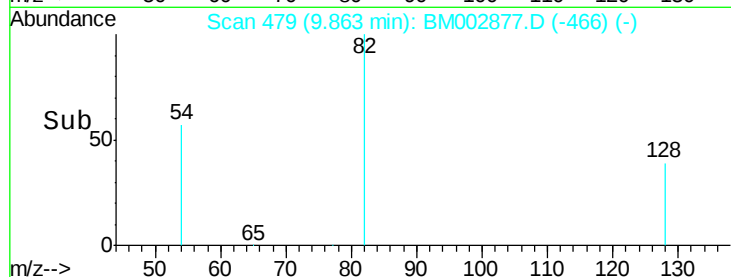
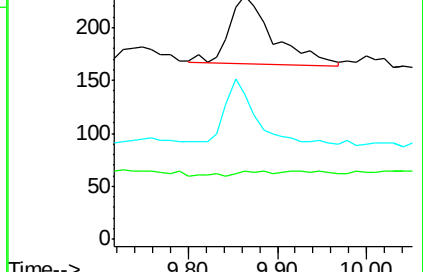
65 70.8 9.7 14.5#



Abundance Ion 77.00 (76.70 to 77.70): BM002877.D (-476) (-)

Ion 123.00 (122.70 to 123.70): BM002877.D (-476) (-)

Ion 65.00 (64.70 to 65.70): BM002877.D (-476) (-)



#10

Naphthalene

Concen: 2.64 ng

RT: 11.56 min Scan# 602

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

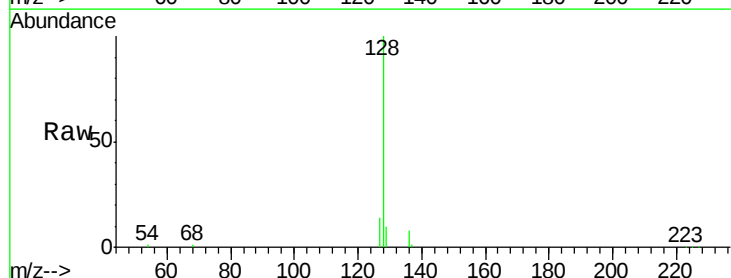
Tgt Ion: 128 Resp: 141966

Ion Ratio Lower Upper

128 100

129 10.3 9.4 14.2

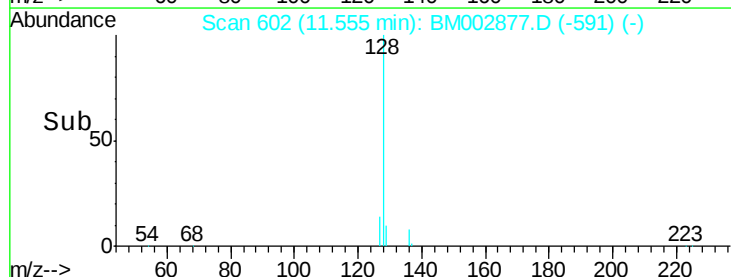
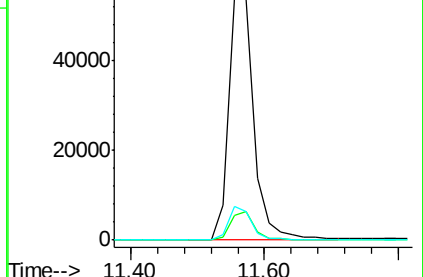
127 13.8 9.6 14.4

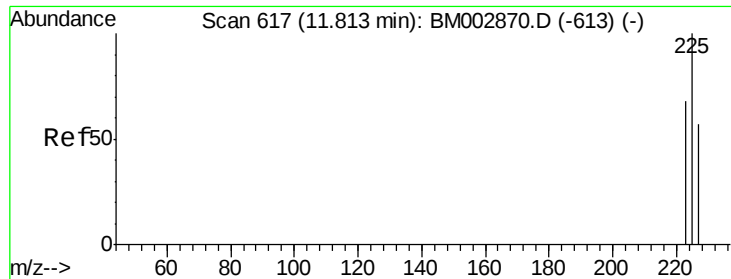


Abundance Ion 128.00 (127.70 to 128.70): BM002877.D (-597) (-)

Ion 129.00 (128.70 to 129.70): BM002877.D (-597) (-)

Ion 127.00 (126.70 to 127.70): BM002877.D (-597) (-)

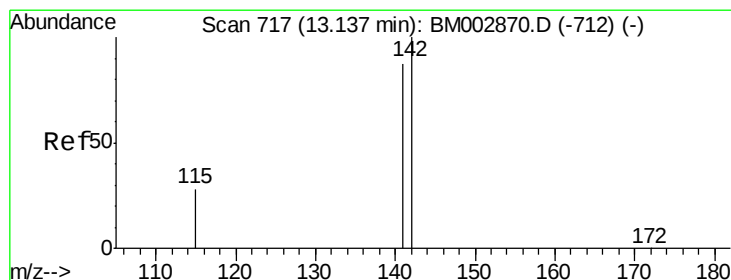
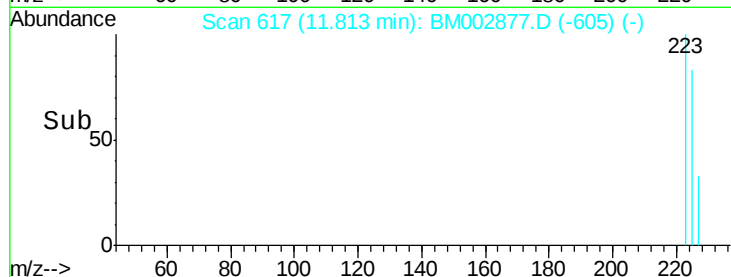
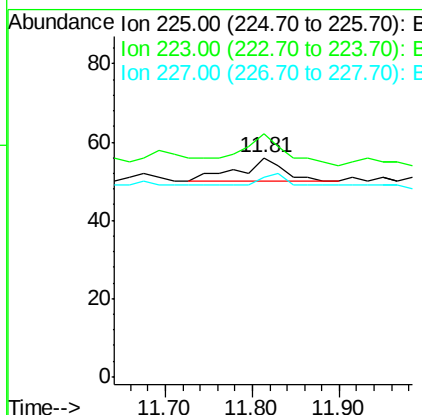
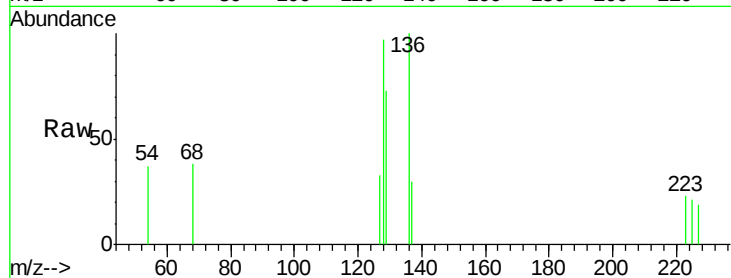




#11
Hexachlorobutadiene
Concen: 0.00 ng
RT: 11.81 min Scan# 617
Delta R.T. 0.00 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

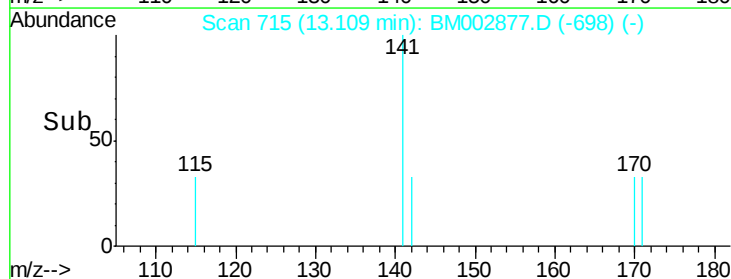
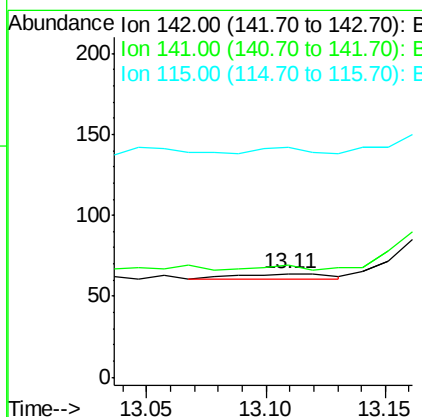
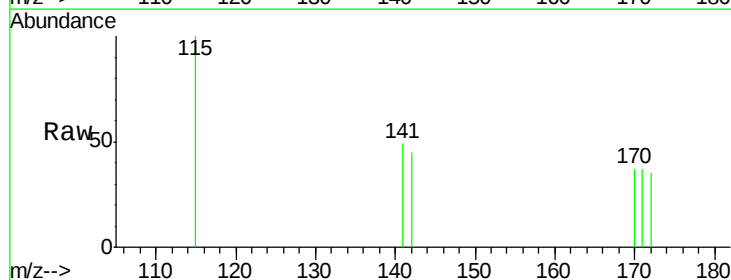
Instrument :
BNA_M
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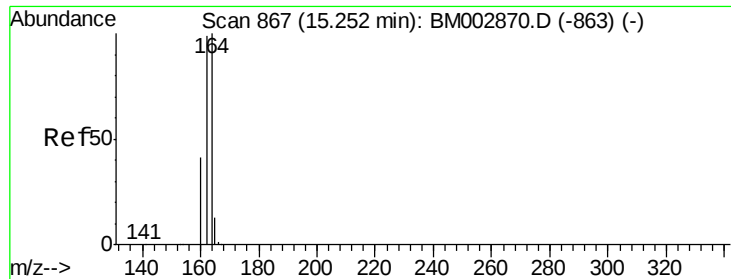
Tot Ion:225 Resp: 22
Ion Ratio Lower Upper
225 100
223 122.7 50.1 75.1#
227 22.7 51.2 76.8#



#12
2-Methylnaphthalene
Concen: 0.00 ng
RT: 13.11 min Scan# 715
Delta R.T. -0.03 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:142 Resp: 7
Ion Ratio Lower Upper
142 100
141 107.8 69.4 104.0#
115 221.9 22.7 34.1#





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.26 min Scan# 868

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

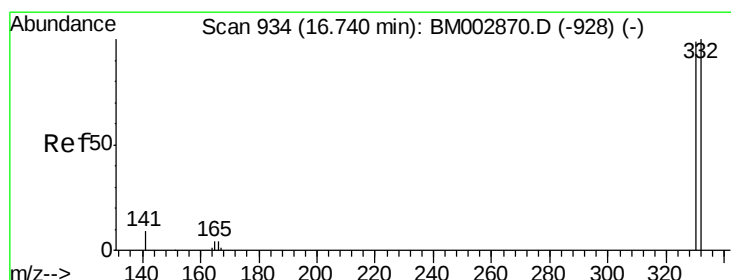
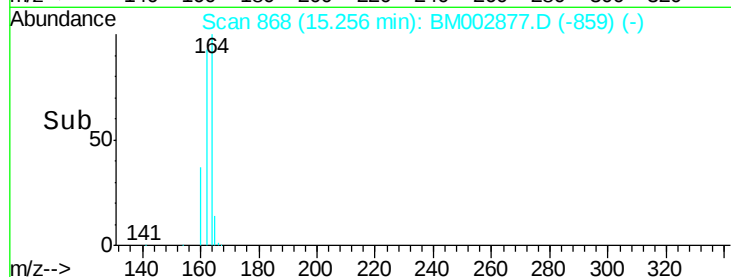
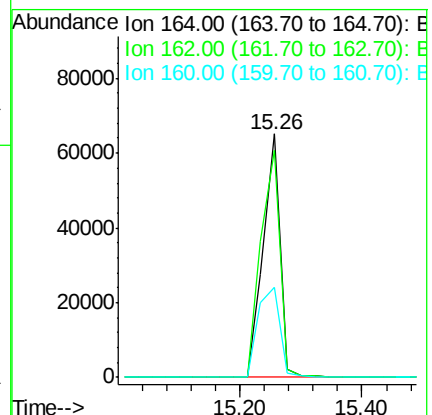
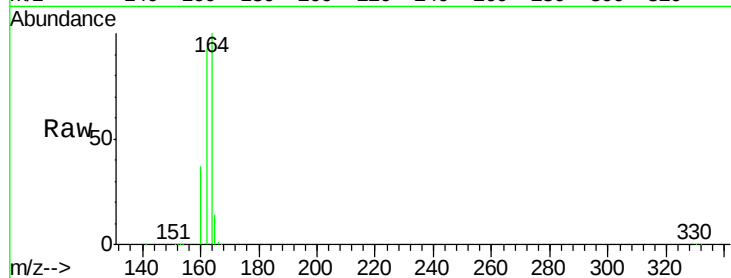
Tot Ion:164 Resp: 127067

Ion Ratio Lower Upper

164 100

162 93.4 79.6 119.4

160 37.1 33.1 49.7



#14

2,4,6-Tribromophenol

Concen: 8.67 ng

RT: 16.72 min Scan# 934

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

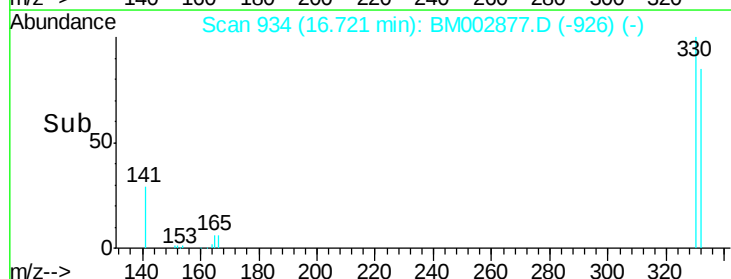
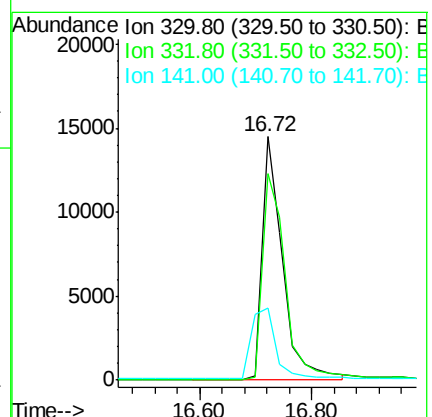
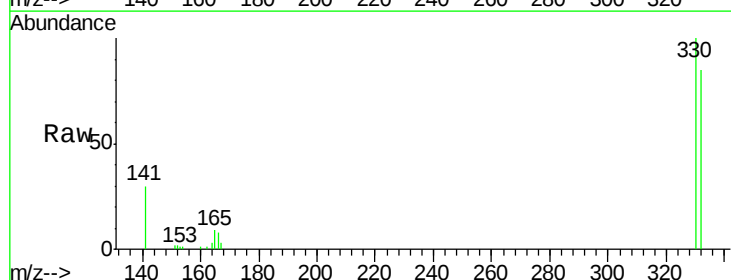
Tgt Ion:330 Resp: 36474

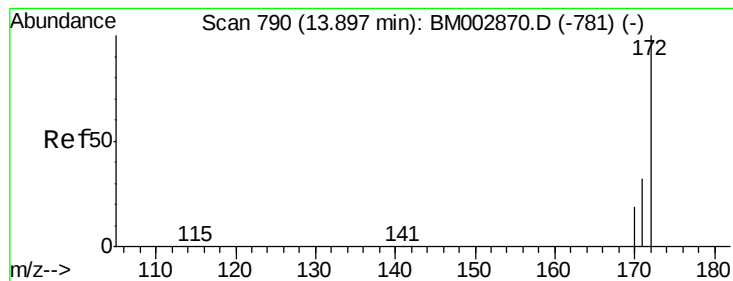
Ion Ratio Lower Upper

330 100

332 95.3 76.6 115.0

141 35.9 0.0 0.0#

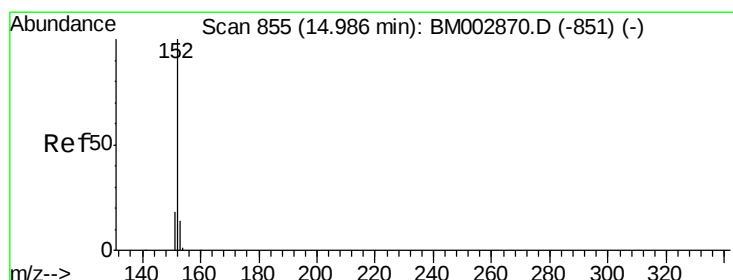
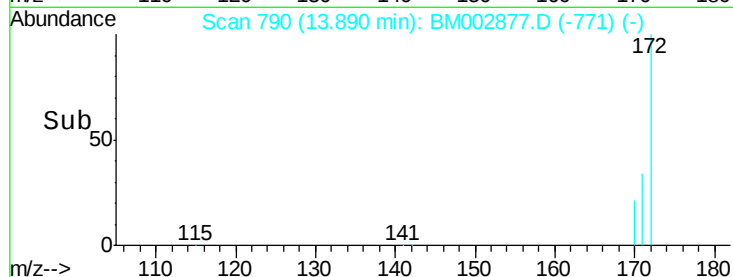
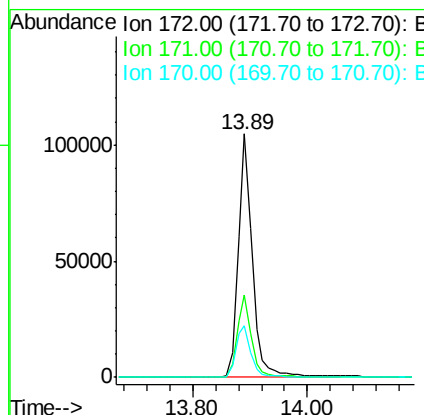
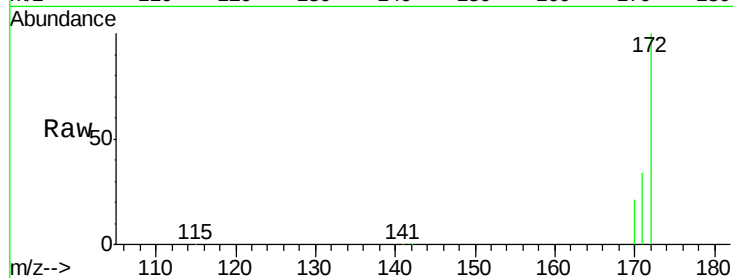




#15
2-Fluorobiphenyl
Concen: 4.64 ng
RT: 13.89 min Scan# 790
Delta R.T. -0.01 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

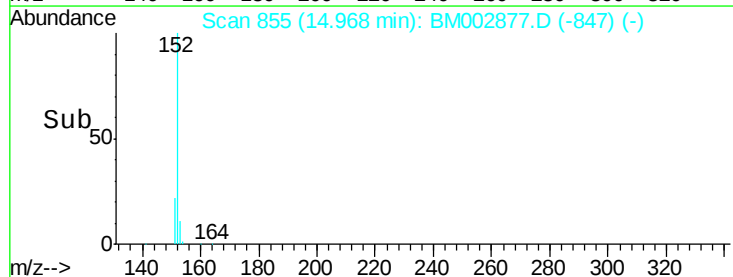
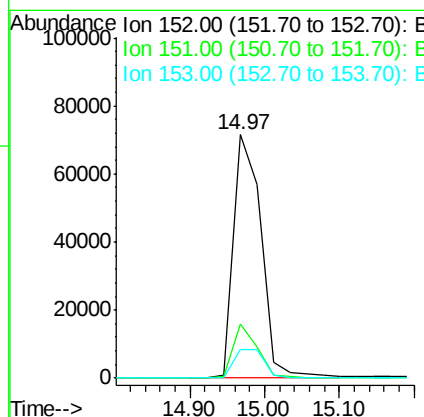
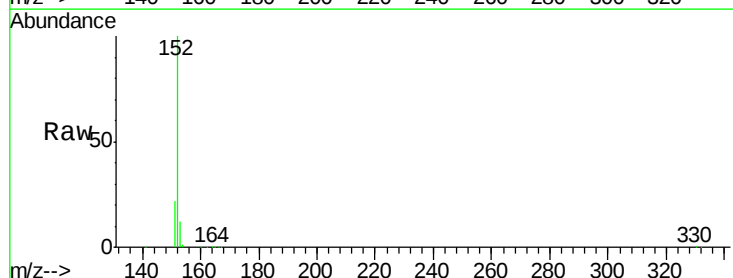
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

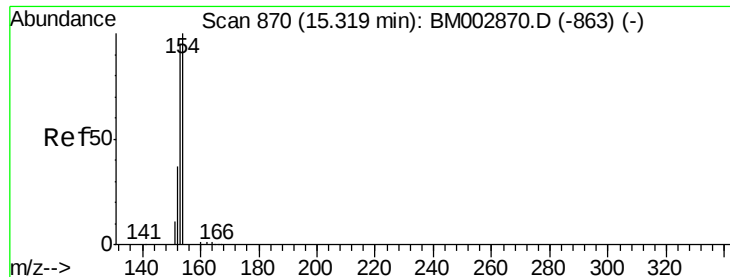
Tot Ion:172 Resp: 178697
Ion Ratio Lower Upper
172 100
171 33.9 26.1 39.1
170 21.4 15.7 23.5



#16
Acenaphthylene
Concen: 3.40 ng
RT: 14.97 min Scan# 855
Delta R.T. -0.02 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:152 Resp: 183365
Ion Ratio Lower Upper
152 100
151 19.4 15.3 22.9
153 0.0 10.5 15.7#

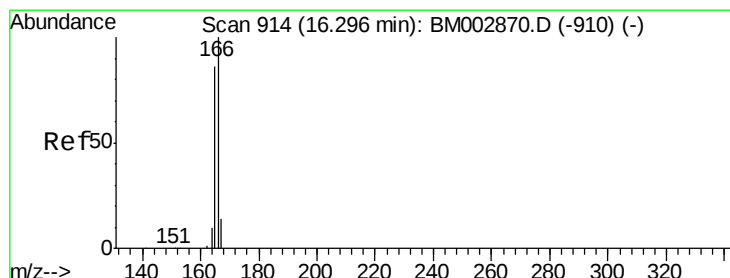
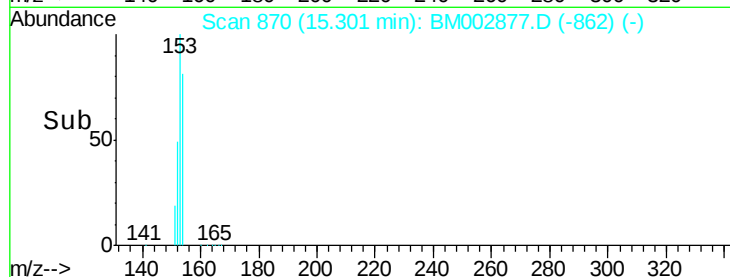
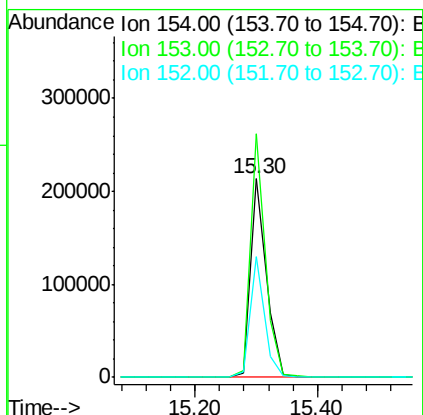
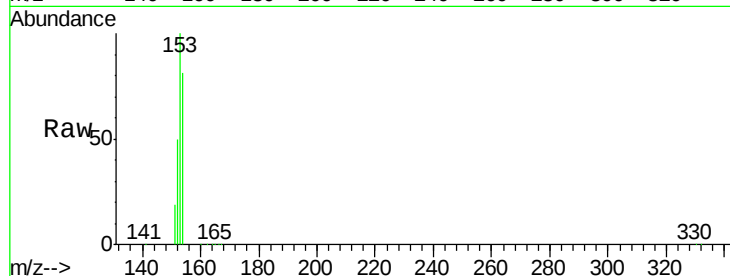




#17
Acenaphthene
Concen: 11.17 ng
RT: 15.30 min Scan# 870
Delta R.T. -0.02 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

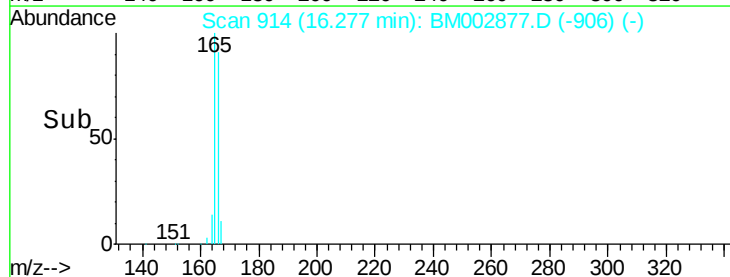
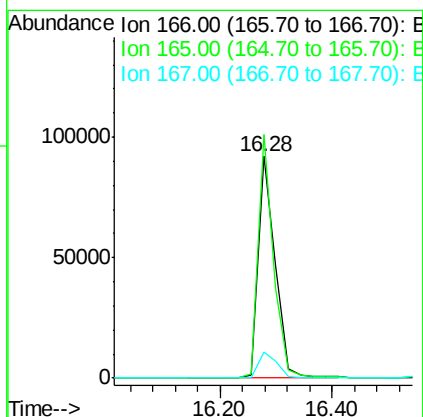
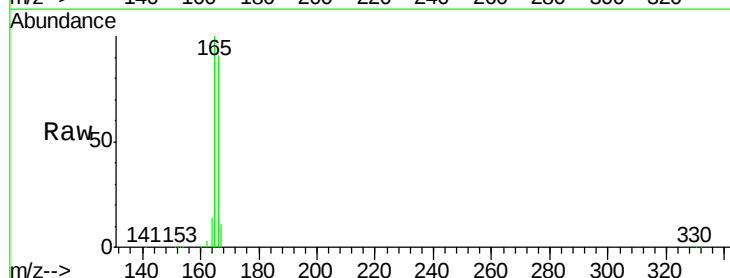
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

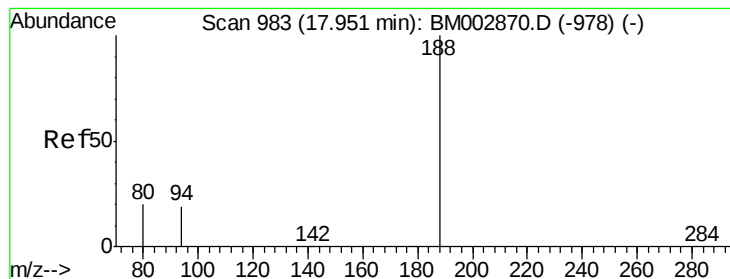
Tot Ion:154 Resp: 389091
Ion Ratio Lower Upper
154 100
153 114.8 0.0 0.0#
152 54.5 0.0 0.0#



#18
Fluorene
Concen: 4.58 ng
RT: 16.28 min Scan# 914
Delta R.T. -0.02 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:166 Resp: 195378
Ion Ratio Lower Upper
166 100
165 99.5 77.3 115.9
167 13.0 10.9 16.3





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.96 min Scan# 984

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

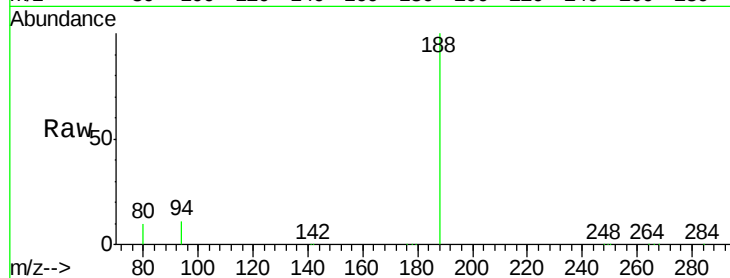
Tot Ion:188 Resp: 316873

Ion Ratio Lower Upper

188 100

94 10.8 15.2 22.8#

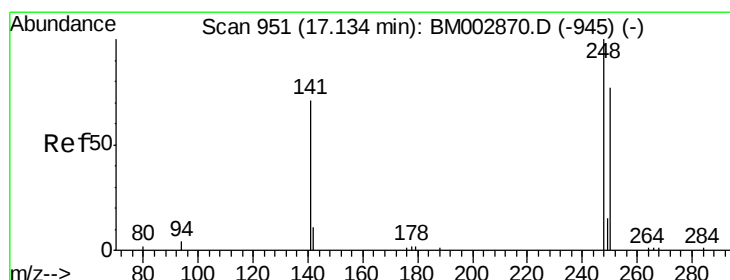
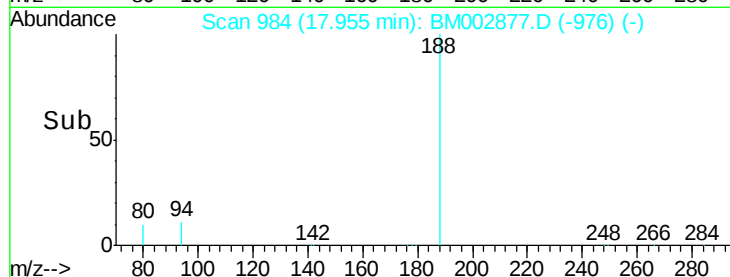
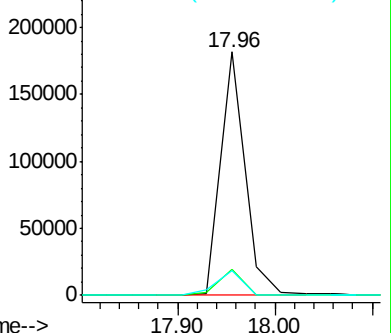
80 10.3 15.9 23.9#



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



#20

4-Bromophenyl-phenylether

Concen: 0.02 ng

RT: 17.01 min Scan# 947

Delta R.T. -0.12 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

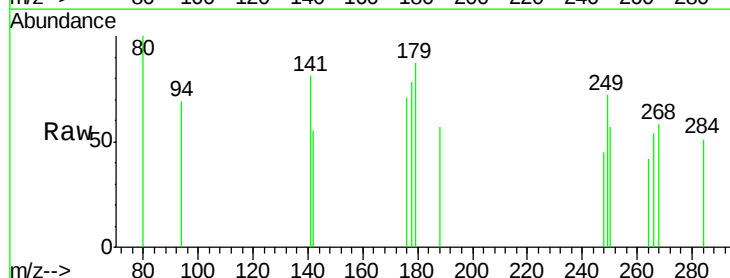
Tgt Ion:248 Resp: 238

Ion Ratio Lower Upper

248 100

250 0.0 71.4 107.2#

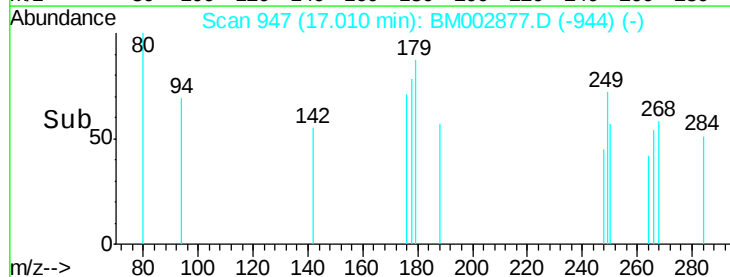
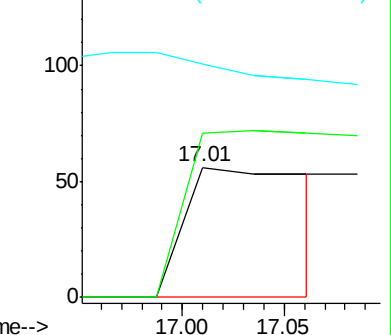
141 0.0 54.6 82.0#

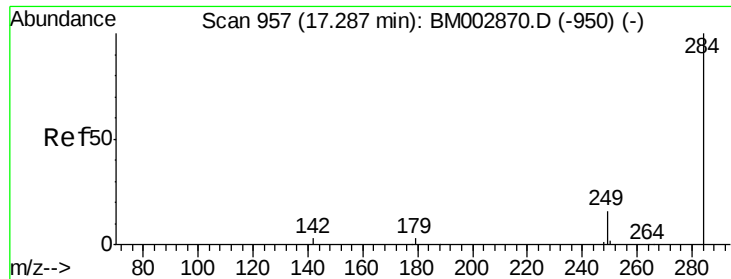


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

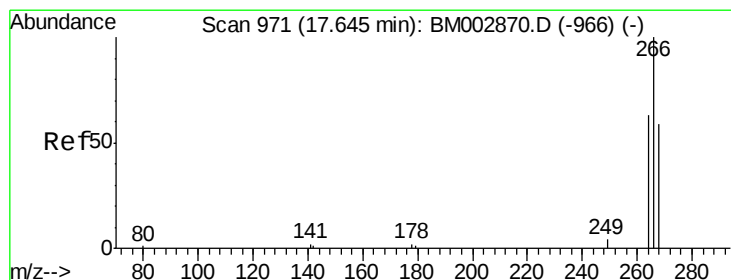
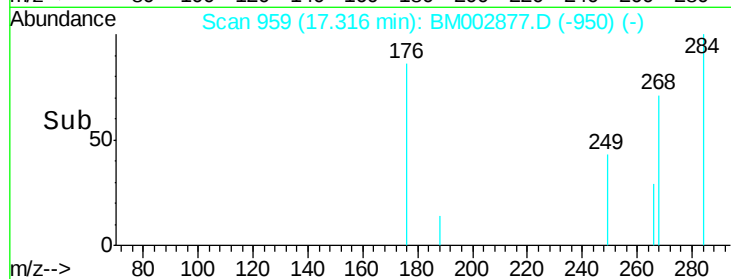
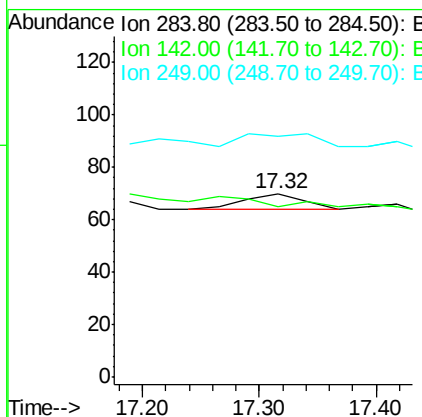
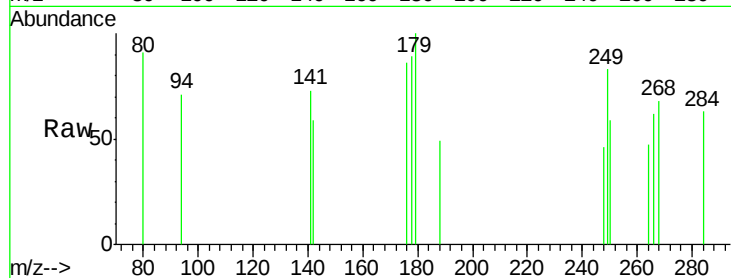




#21
Hexachlorobenzene
Concen: 0.00 ng
RT: 17.32 min Scan# 959
Delta R.T. 0.03 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

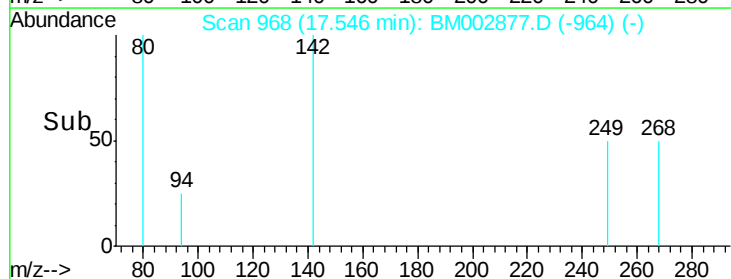
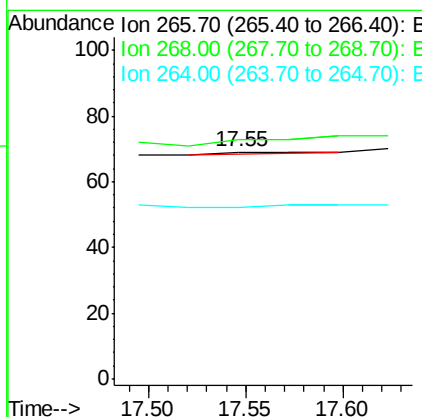
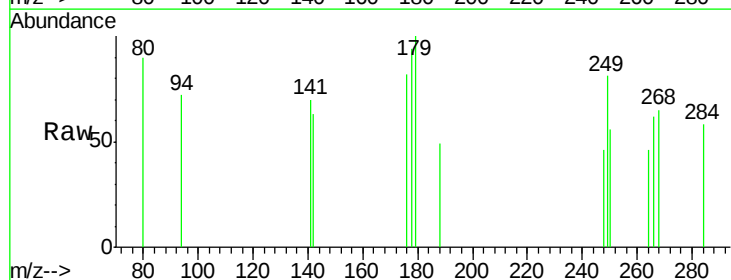
Instrument :
BNA_M
ClientSampleId :
RR-PAH-WP

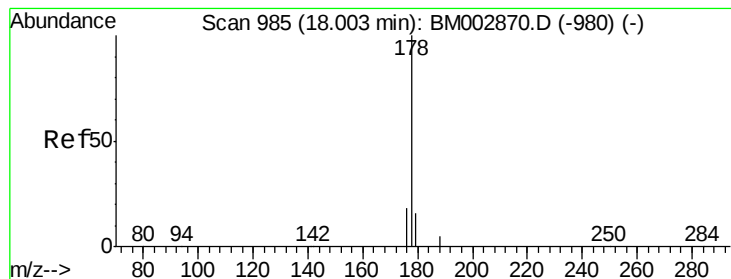
Tot Ion:284 Resp: 21
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 0.0 20.7 31.1#



#22
Pentachlorophenol
Concen: 0.03 ng
RT: 17.55 min Scan# 968
Delta R.T. -0.10 min
Lab File: BM002877.D
Acq: 08 Oct 2015 23:23

Tgt Ion:266 Resp: 3
Ion Ratio Lower Upper
266 100
268 105.8 58.3 87.5#
264 75.4 54.2 81.2





#23

Phenanthrene

Concen: 0.87 ng

RT: 18.01 min Scan# 986

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

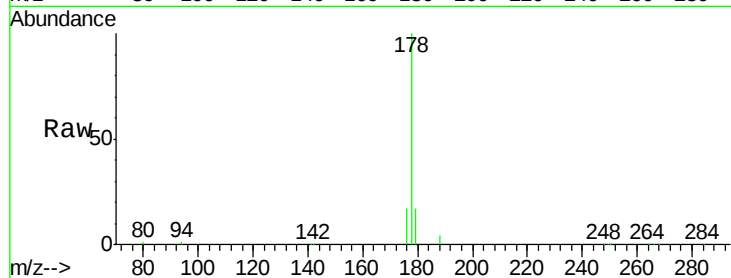
Tot Ion:178 Resp: 80860

Ion Ratio Lower Upper

178 100

176 0.0 14.6 21.8#

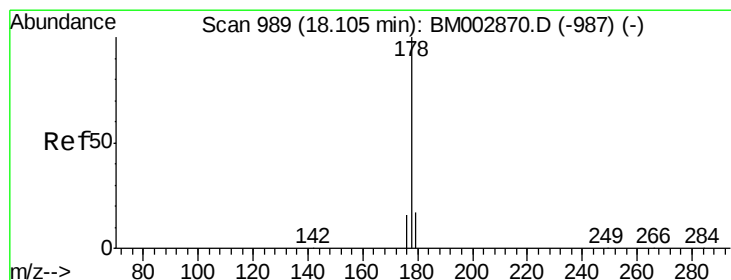
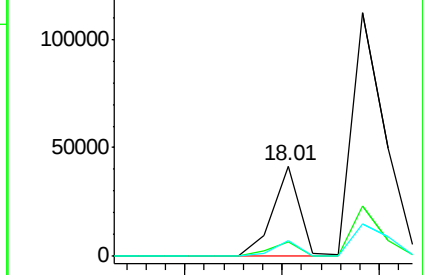
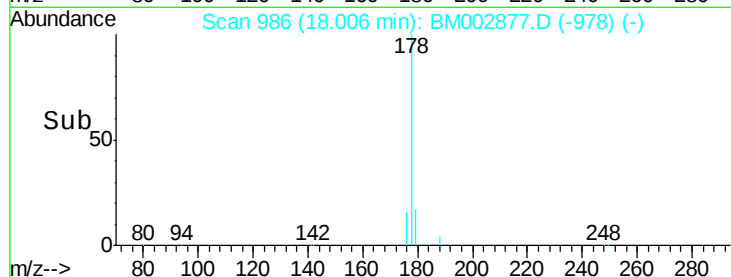
179 15.9 12.5 18.7



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: 3.29 ng

RT: 18.08 min Scan# 989

Delta R.T. -0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

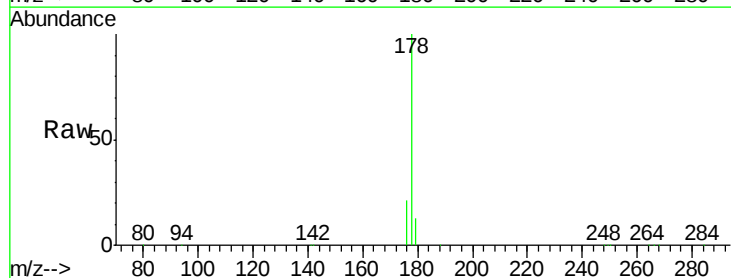
Tgt Ion:178 Resp: 258263

Ion Ratio Lower Upper

178 100

176 24.9 13.9 20.9#

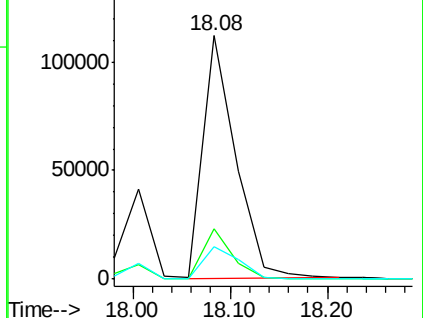
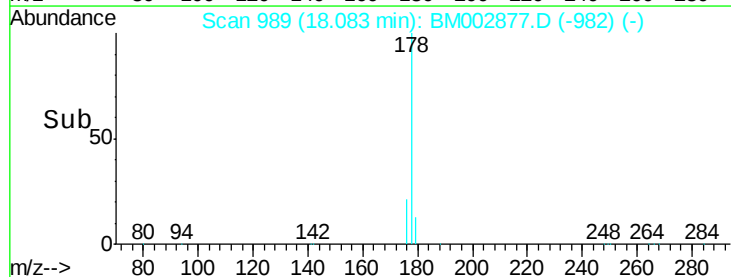
179 14.6 12.6 18.8

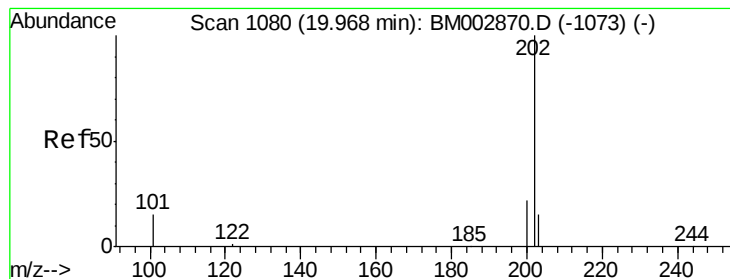


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 3.18 ng

RT: 19.97 min Scan# 1081

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

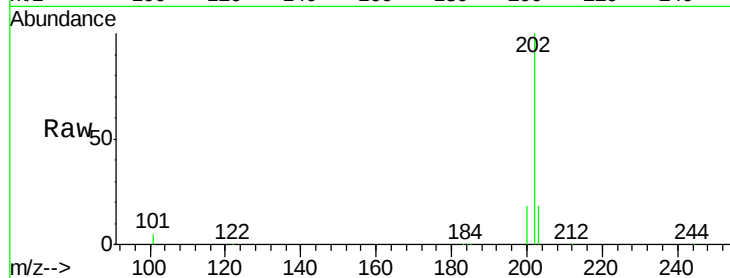
Tot Ion:202 Resp: 326602

Ion Ratio Lower Upper

202 100

101 13.3 11.0 16.6

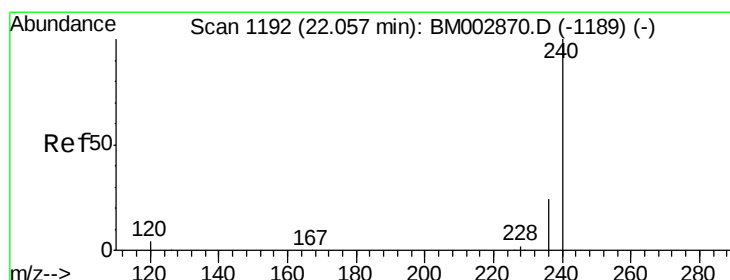
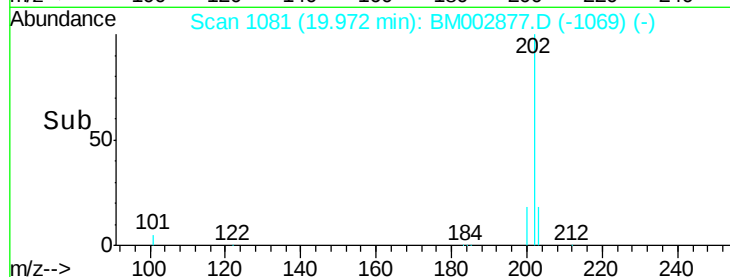
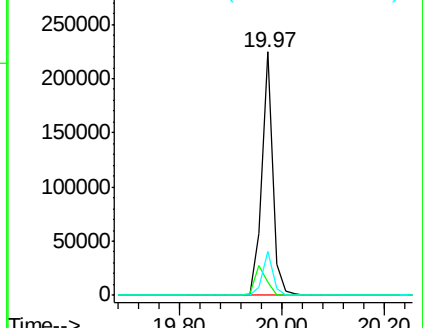
203 17.4 13.8 20.6



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: 22.04 min Scan# 1192

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

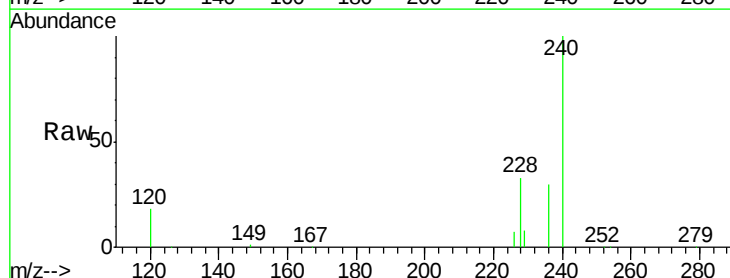
Tgt Ion:240 Resp: 310244

Ion Ratio Lower Upper

240 100

120 18.0 3.3 4.9#

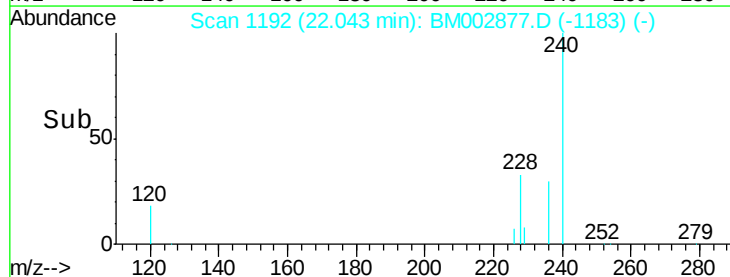
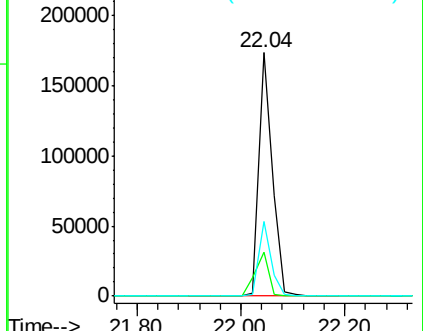
236 30.5 19.5 29.3#

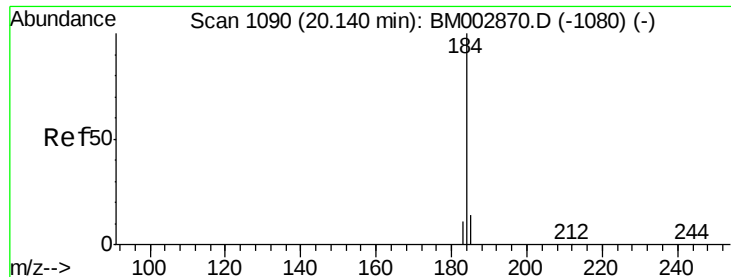


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.18 ng

RT: 20.16 min Scan# 1092

Delta R.T. 0.02 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

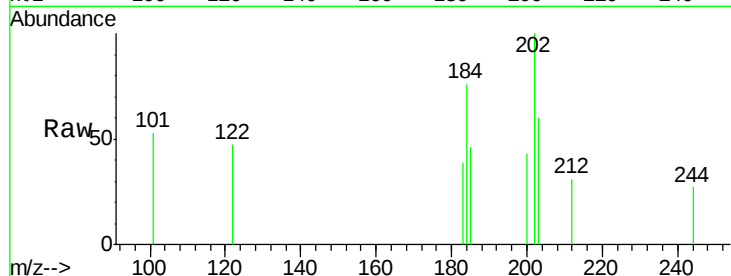
Tot Ion:184 Resp: 445

Ion Ratio Lower Upper

184 100

185 60.8 12.0 18.0#

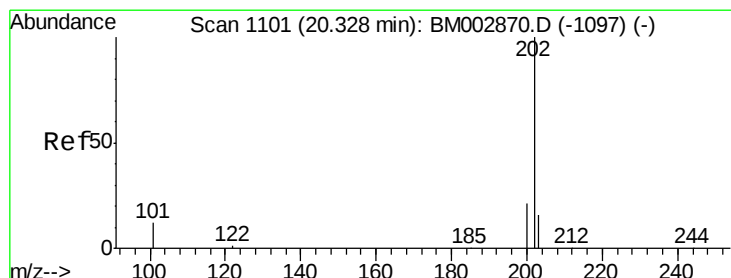
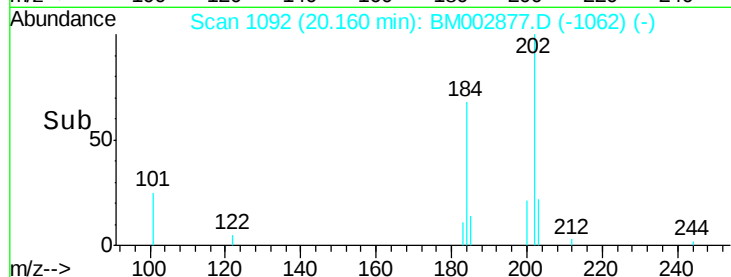
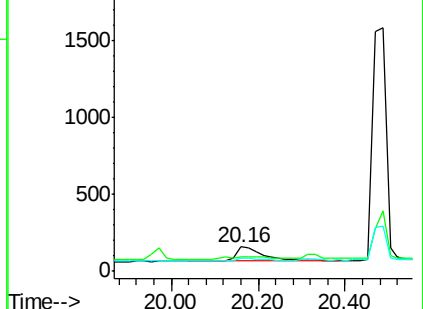
183 51.9 8.9 13.3#



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: 1.87 ng

RT: 20.33 min Scan# 1102

Delta R.T. 0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

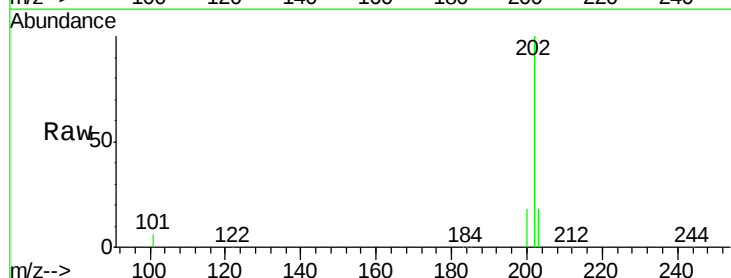
Tgt Ion:202 Resp: 156897

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.4

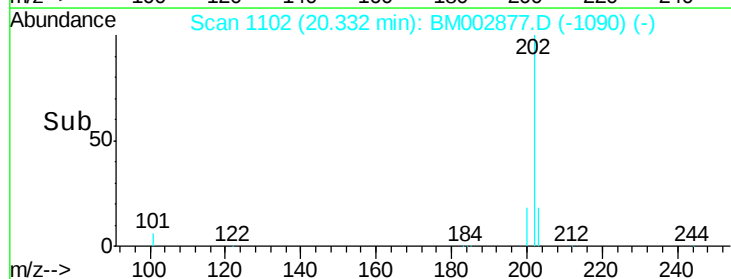
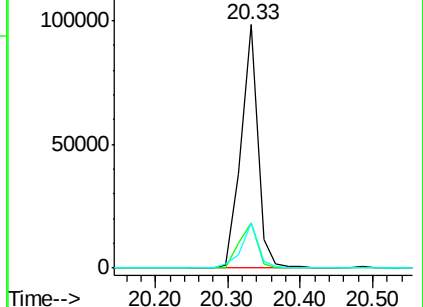
203 18.6 13.8 20.8

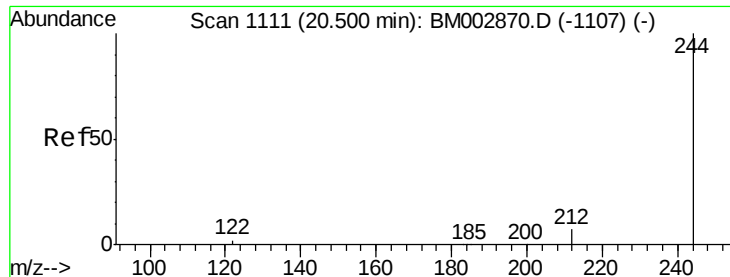


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 4.71 ng

RT: 20.49 min Scan# 1111

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

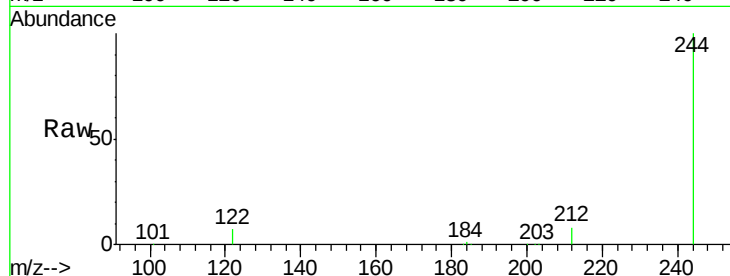
Tot Ion:244 Resp: 194759

Ion Ratio Lower Upper

244 100

212 8.4 5.6 8.4

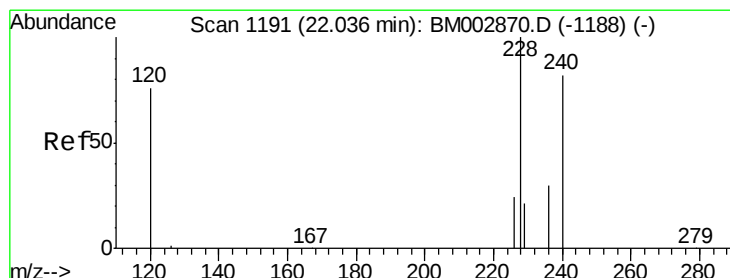
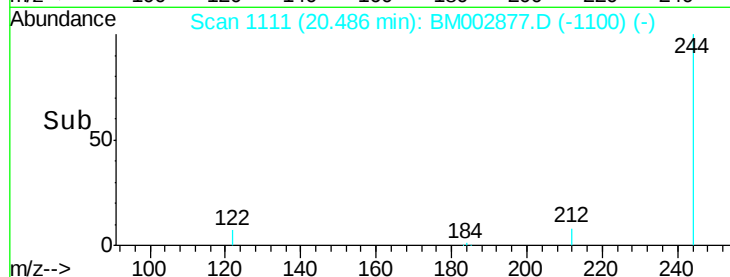
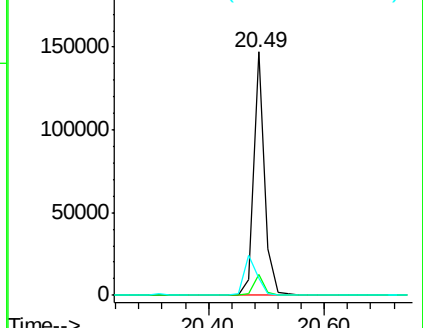
122 7.1 2.2 3.2#



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: 3.26 ng

RT: 22.02 min Scan# 1191

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

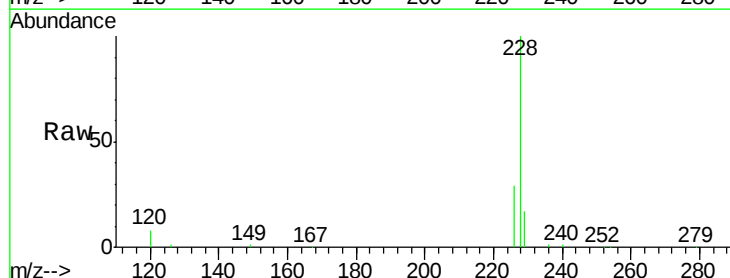
Tgt Ion:228 Resp: 290624

Ion Ratio Lower Upper

228 100

226 29.4 19.0 28.6#

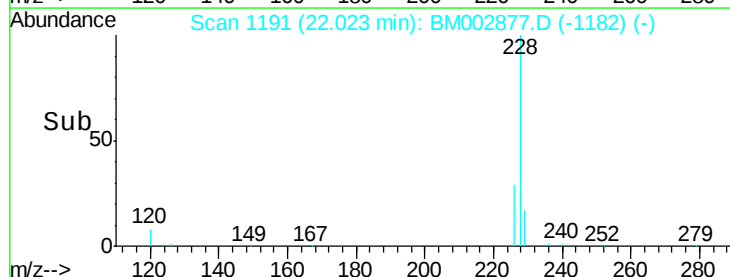
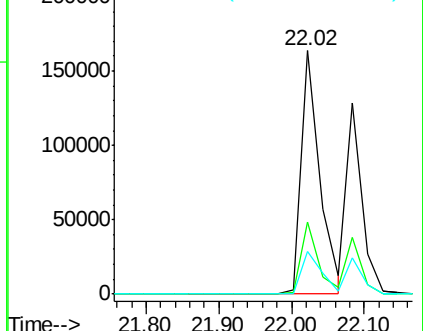
229 17.3 16.8 25.2

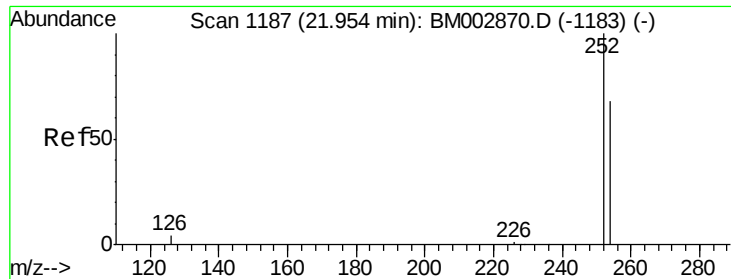


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

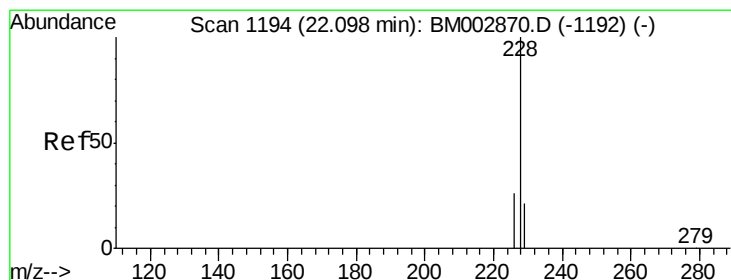
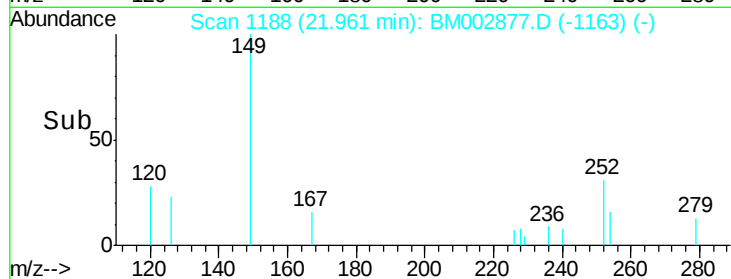
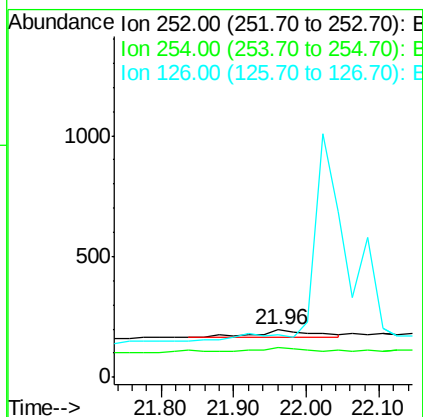
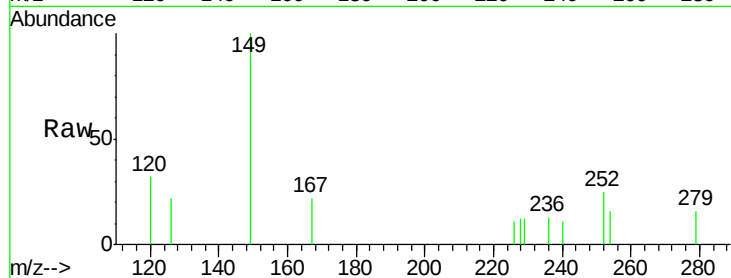




#31
 3,3'-Dichlorobenzidine
 Concen: 0.01 ng
 RT: 21.96 min Scan# 1188
 Delta R.T. 0.01 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

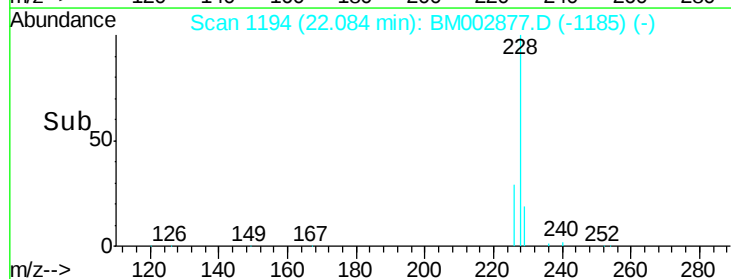
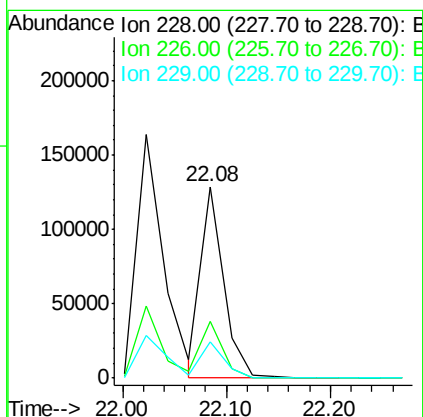
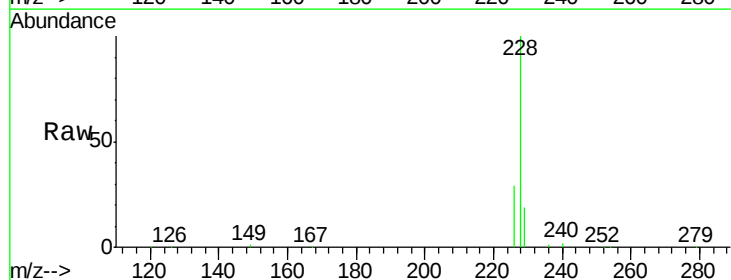
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

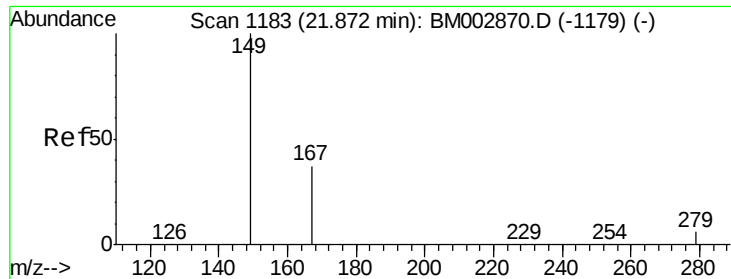
Tot Ion:252 Resp: 172
 Ion Ratio Lower Upper
 252 100
 254 63.8 54.1 81.1
 126 90.3 4.1 6.1#



#32
 Chrysene
 Concen: 2.33 ng
 RT: 22.08 min Scan# 1194
 Delta R.T. -0.01 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

Tgt Ion:228 Resp: 194217
 Ion Ratio Lower Upper
 228 100
 226 29.4 20.6 30.8
 229 18.8 17.4 26.2





#33

Bis(2-ethylhexyl)phthalate

Concen: 0.02 ng

RT: 21.86 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

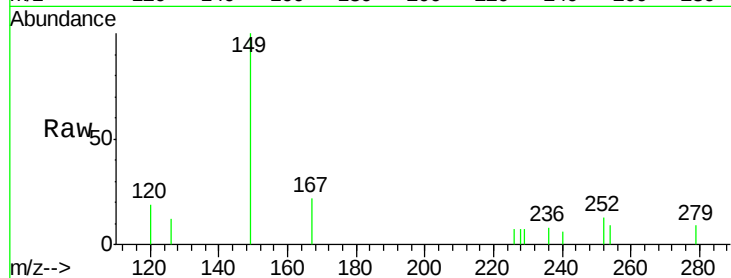
Tot Ion:149 Resp: 985

Ion Ratio Lower Upper

149 100

167 22.1 17.2 25.8

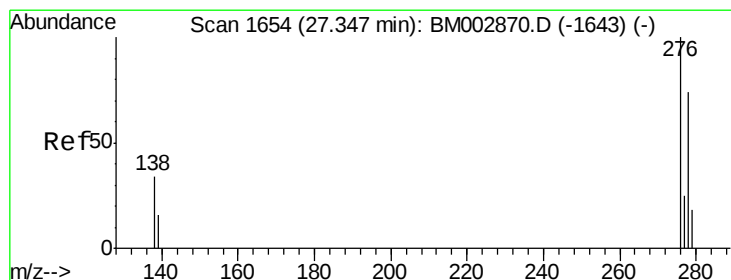
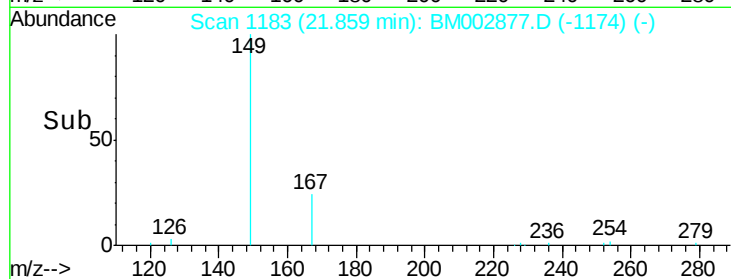
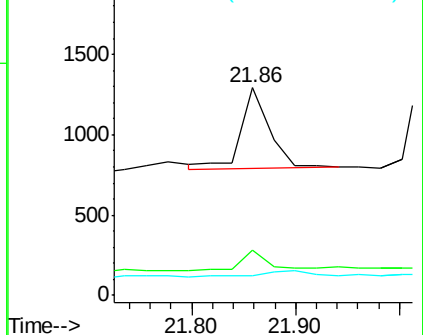
279 0.0 2.2 3.4#



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: 1.55 ng

RT: 27.33 min Scan# 1654

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

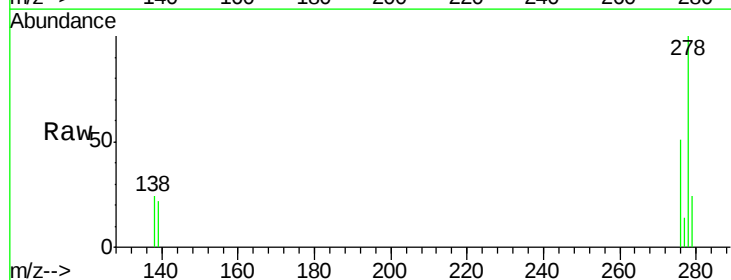
Tgt Ion:276 Resp: 154748

Ion Ratio Lower Upper

276 100

138 48.3 29.0 43.6#

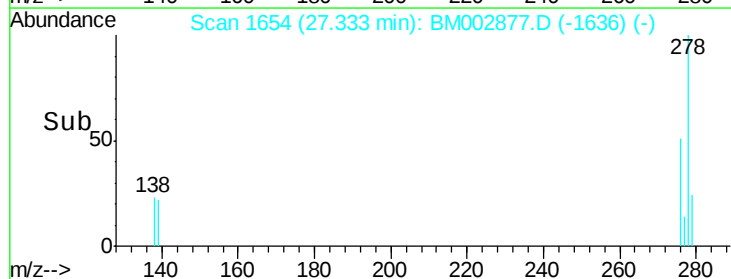
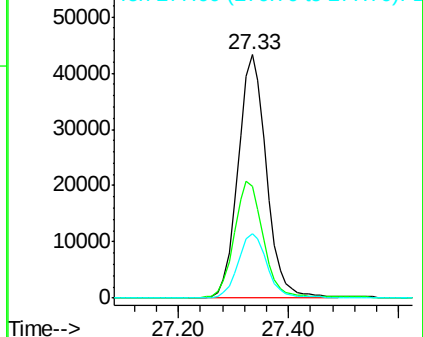
277 26.7 19.8 29.8

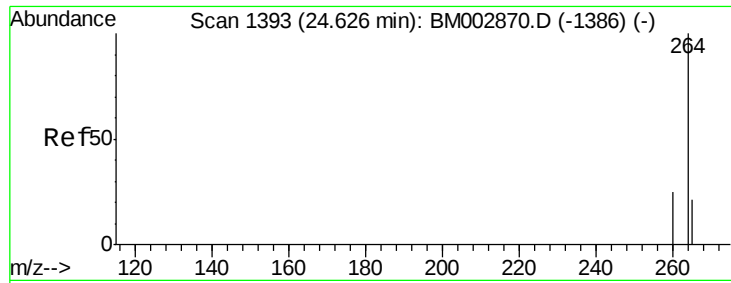


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

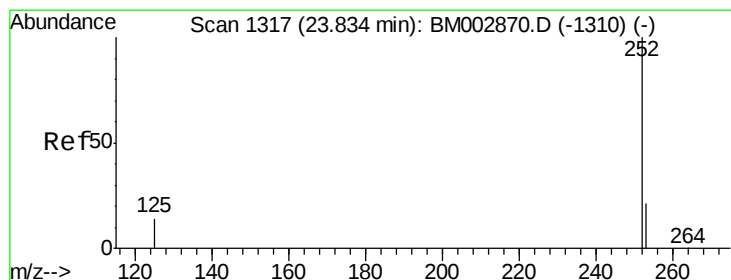
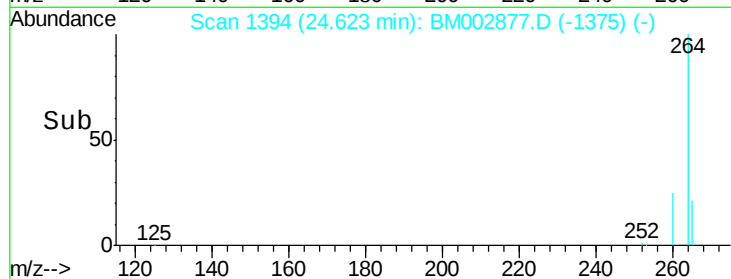
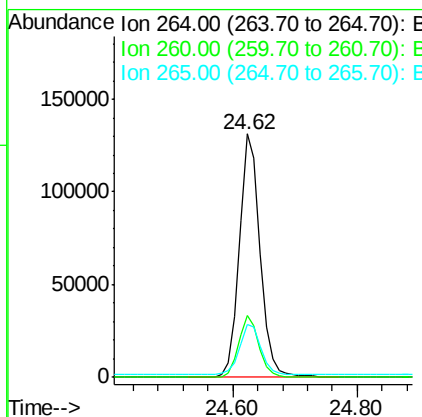
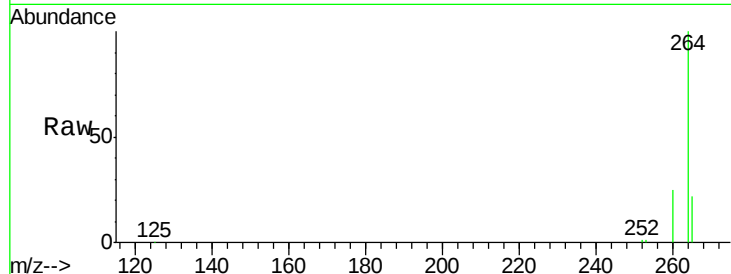




#35
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.62 min Scan# 1394
 Delta R.T. -0.00 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

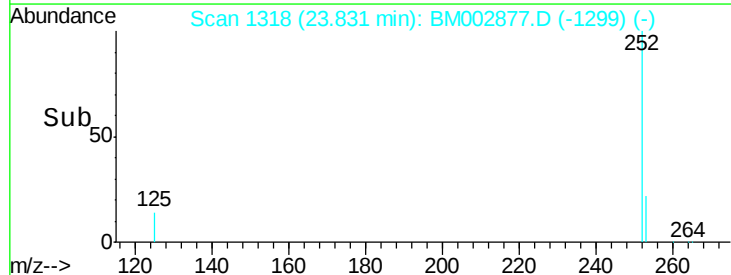
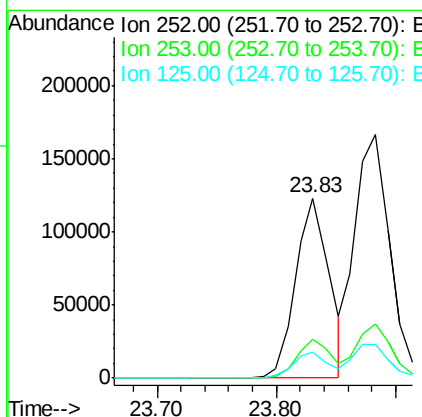
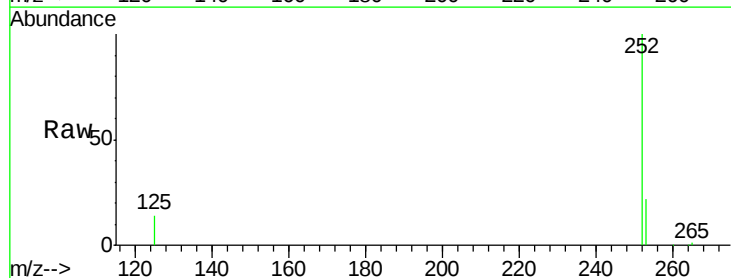
Instrument :
 BNA_M
 ClientSampleId :
 RR-PAH-WP

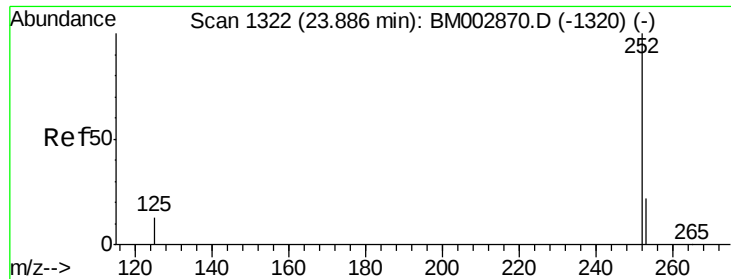
Tot Ion:264 Resp: 306634
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.1 30.1
 265 21.6 17.6 26.4



#36
 Benzo(b)fluoranthene
 Concen: 2.73 ng
 RT: 23.83 min Scan# 1318
 Delta R.T. -0.00 min
 Lab File: BM002877.D
 Acq: 08 Oct 2015 23:23

Tgt Ion:252 Resp: 239903
 Ion Ratio Lower Upper
 252 100
 253 21.8 17.5 26.3
 125 14.3 12.4 18.6





#37

Benzo(k)fluoranthene

Concen: 4.00 ng

RT: 23.88 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

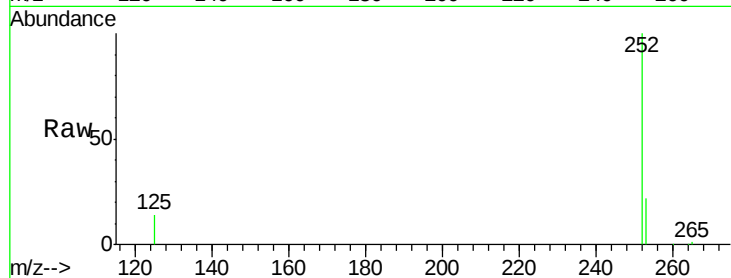
Tot Ion:252 Resp: 339249

Ion Ratio Lower Upper

252 100

253 22.3 17.9 26.9

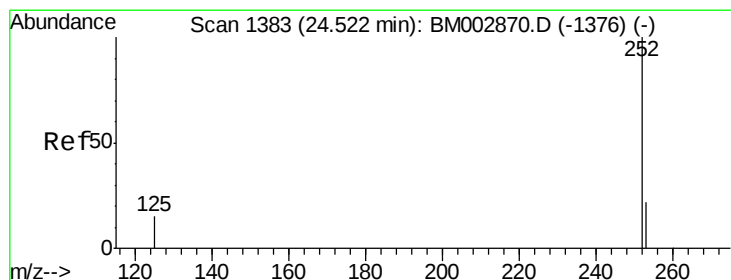
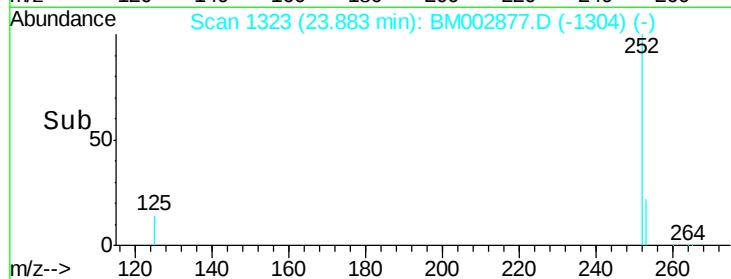
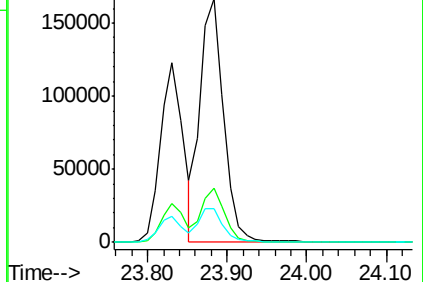
125 13.8 12.3 18.5



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: 3.33 ng

RT: 24.51 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

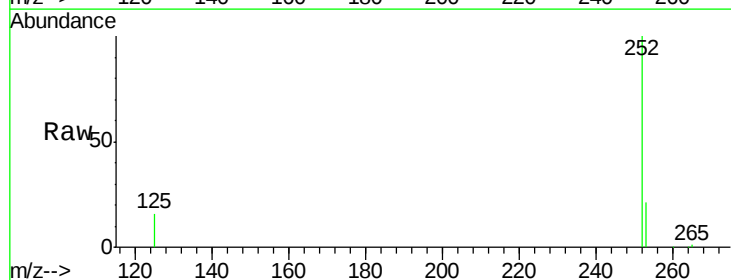
Tgt Ion:252 Resp: 268514

Ion Ratio Lower Upper

252 100

253 21.4 18.4 27.6

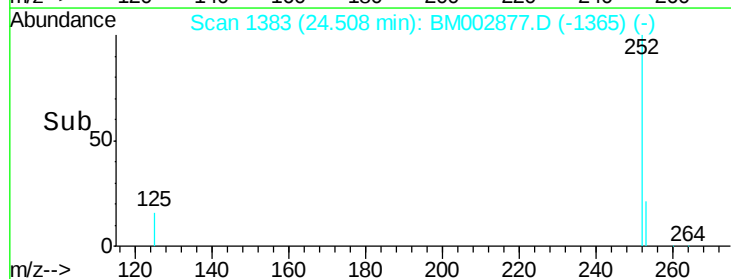
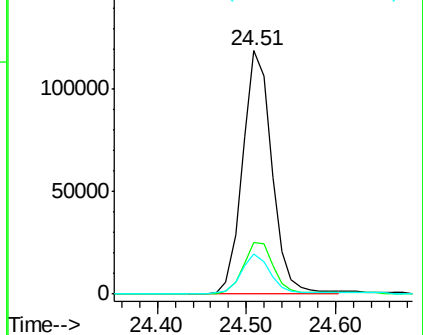
125 16.2 13.3 19.9

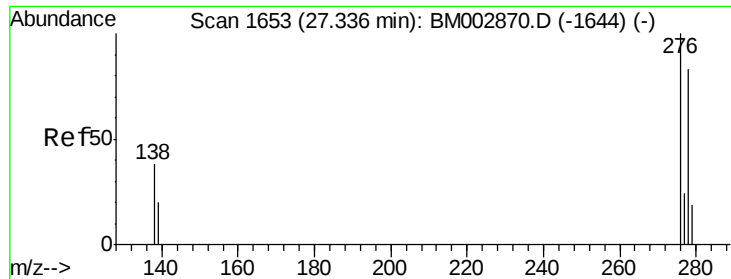


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 3.85 ng

RT: 27.32 min Scan# 1653

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

Instrument :

BNA_M

ClientSampleId :

RR-PAH-WP

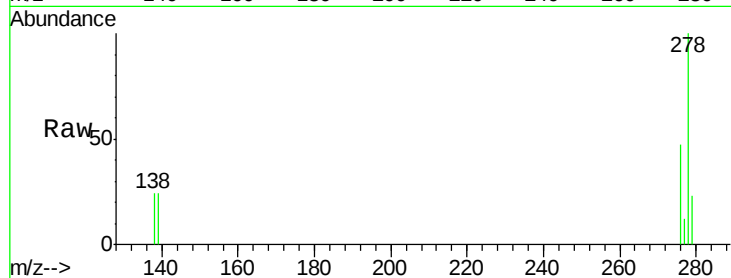
Tot Ion:278 Resp: 302882

Ion Ratio Lower Upper

278 100

139 24.4 19.8 29.6

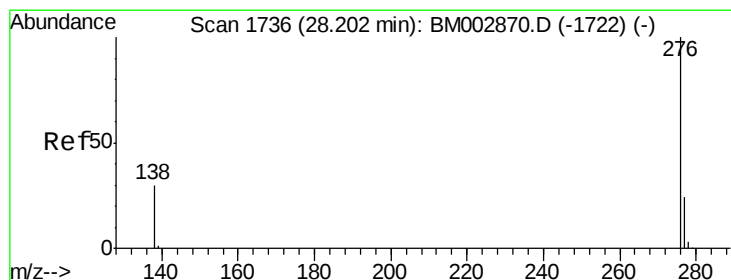
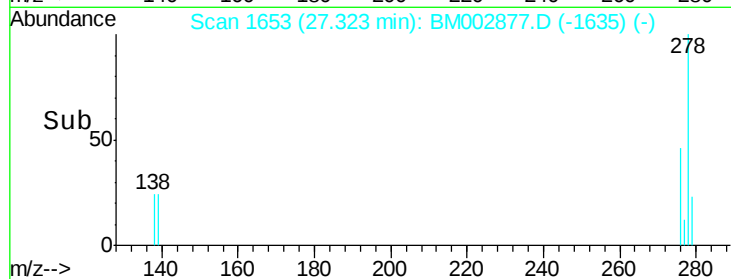
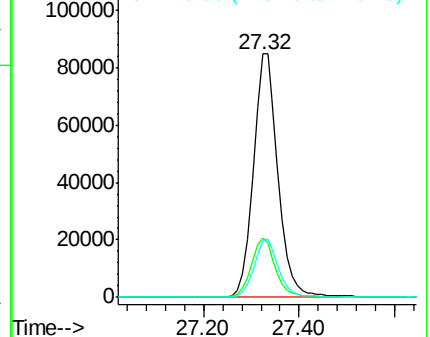
279 23.3 19.1 28.7



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



#40

Benzo(g,h,i)perylene

Concen: 0.79 ng

RT: 28.19 min Scan# 1736

Delta R.T. -0.01 min

Lab File: BM002877.D

Acq: 08 Oct 2015 23:23

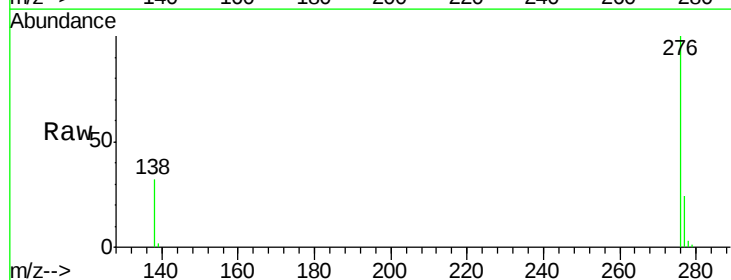
Tgt Ion:276 Resp: 64290

Ion Ratio Lower Upper

276 100

277 23.8 19.4 29.0

138 32.0 24.4 36.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

