

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM041815\
 Data File : BM001051.D
 Acq On : 18 Apr 2015 08:37
 Operator : TP/IZ
 Sample : PB82779BL
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82779BL

Quant Time: Apr 20 08:05:47 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM041815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 05:07:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	24091	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	86183	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	45305	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	101632	5.00	ng	0.00
19) Chrysene-d12	21.19	240	86933	5.00	ng	0.00
25) Perylene-d12	23.36	264	78487	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.74	82	30251	6.44	ng	0.00
9) 2-Fluorobiphenyl	12.86	172	93032	6.20	ng	0.00
21) Terphenyl-d14	19.63	244	75032	-5.00	ng	0.00

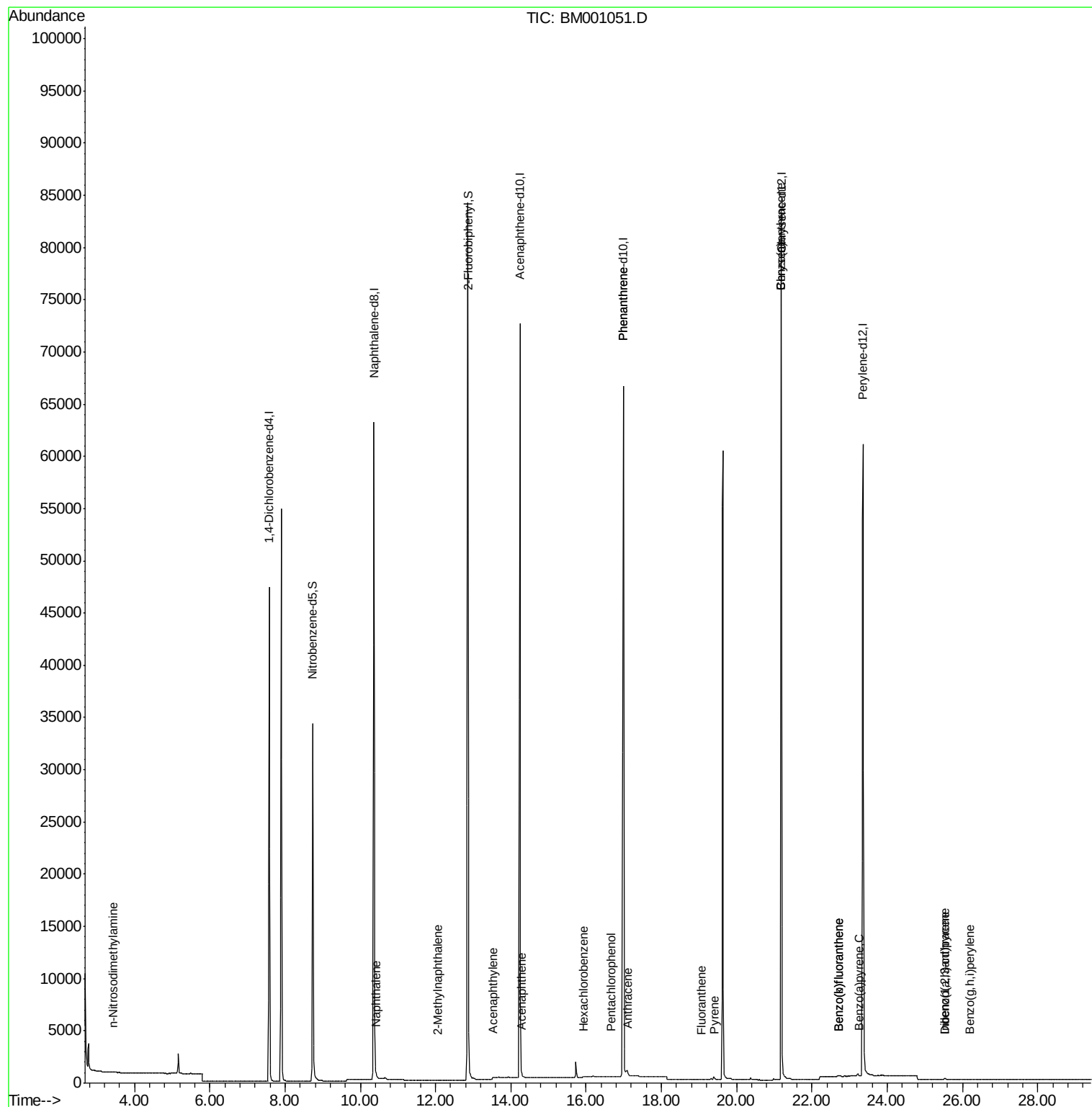
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.43	42	29	0.01	ng	# 1
6) Naphthalene	10.41	128	7	0.00	ng	# 1
7) 2-Methylnaphthalene	12.05	142	6	0.00	ng	# 40
10) Acenaphthylene	13.54	152	266	0.24	ng	# 62
11) Acenaphthene	14.29	154	36	0.00	ng	# 56
14) Hexachlorobenzene	15.94	284	227	0.18	ng	# 100
15) Pentachlorophenol	16.66	266	10	0.34	ng	# 61
16) Phenanthrene	16.99	178	62	0.14	ng	# 1
17) Anthracene	17.11	178	12	0.00	ng	# 62
18) Fluoranthene	19.05	202	15	0.00	ng	# 26
20) Pyrene	19.42	202	95	0.15	ng	# 95
22) Benzo(a)anthracene	21.18	228	355	0.18	ng	# 81
23) Chrysene	21.18	228	355	0.14	ng	# 83
24) Indeno(1,2,3-cd)pyrene	25.53	276	141	0.16	ng	# 94
26) Benzo(b)fluoranthene	22.71	252	153	0.17	ng	# 1
27) Benzo(k)fluoranthene	22.71	252	153	0.15	ng	# 1
28) Benzo(a)pyrene	23.25	252	76	0.18	ng	# 1
29) Dibenzo(a,h)anthracene	25.54	278	111	0.17	ng	# 1
30) Benzo(g,h,i)perylene	26.18	276	141	0.16	ng	# 1

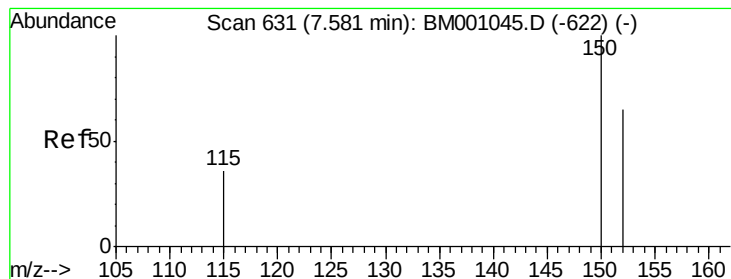
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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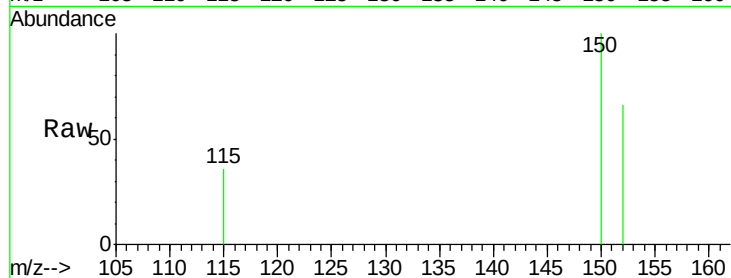


#1

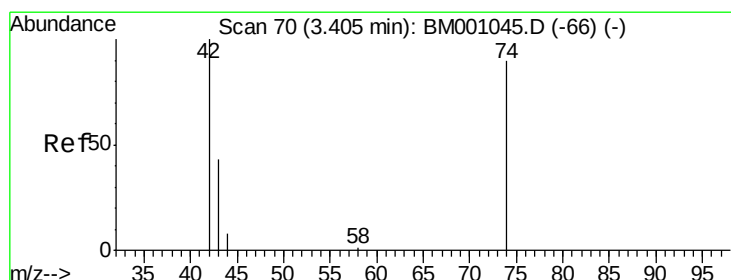
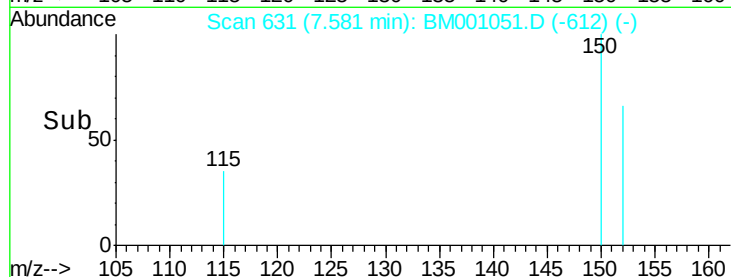
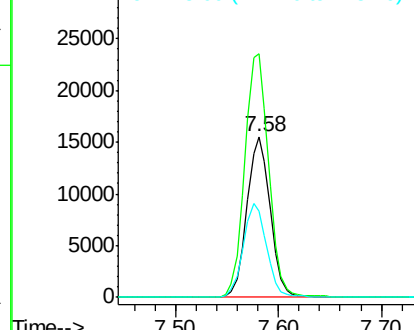
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.58 min Scan# 631
Delta R.T. 0.00 min
Lab File: BM001051.D
Acq: 18 Apr 2015 08:37

Instrument :
BNA_M
ClientSampleId :
PB82779BL

Tgt Ion: 152 Resp: 24091
Ion Ratio Lower Upper
152 100
150 151.5 123.3 184.9
115 53.9 45.0 67.6



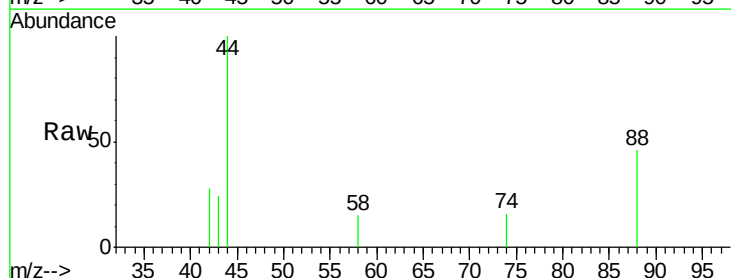
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



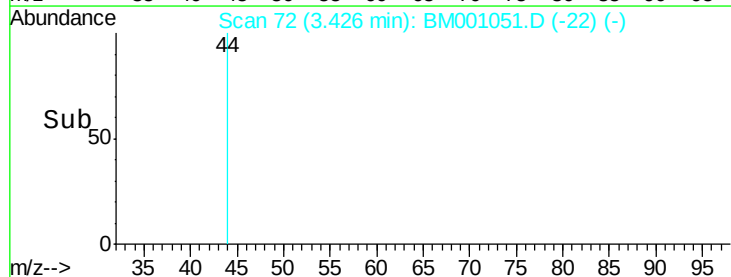
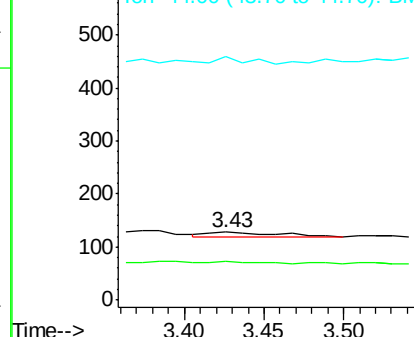
#3

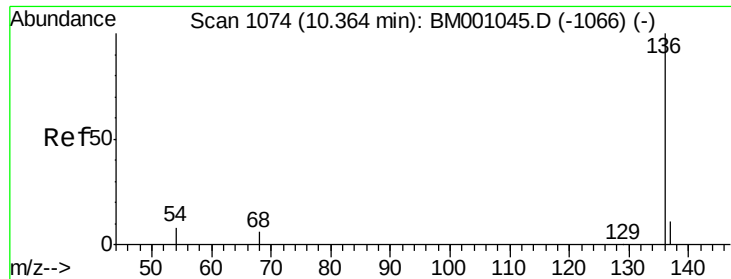
n-Nitrosodimethylamine
Concen: 0.01 ng
RT: 3.43 min Scan# 72
Delta R.T. 0.02 min
Lab File: BM001051.D
Acq: 18 Apr 2015 08:37

Tgt Ion: 42 Resp: 29
Ion Ratio Lower Upper
42 100
74 0.0 92.1 138.1#
44 48.3 5.8 8.6#



Abundance Ion 42.00 (41.70 to 42.70): BM0
Ion 74.00 (73.70 to 74.70): BM0
Ion 44.00 (43.70 to 44.70): BM0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

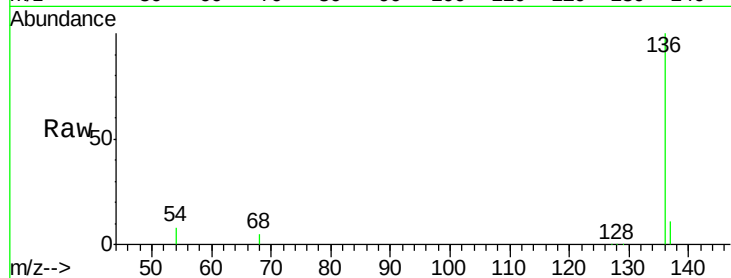
Tgt Ion:136 Resp: 86183

Ion Ratio Lower Upper

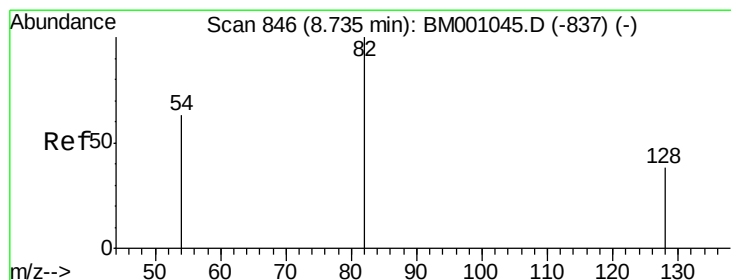
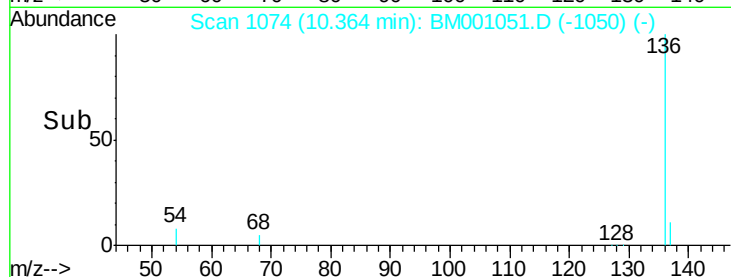
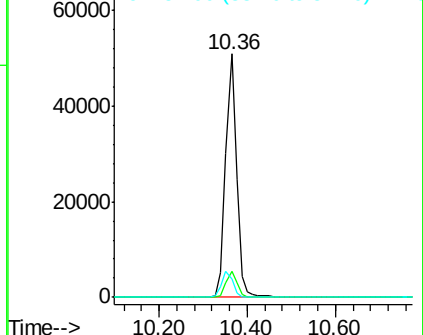
136 100

137 10.8 8.6 13.0

54 7.7 6.5 9.7



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



#5

Nitrobenzene-d5

Concen: 6.44 ng

RT: 8.74 min Scan# 846

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

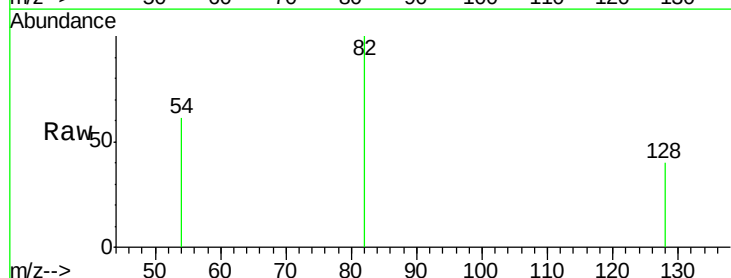
Tgt Ion: 82 Resp: 30251

Ion Ratio Lower Upper

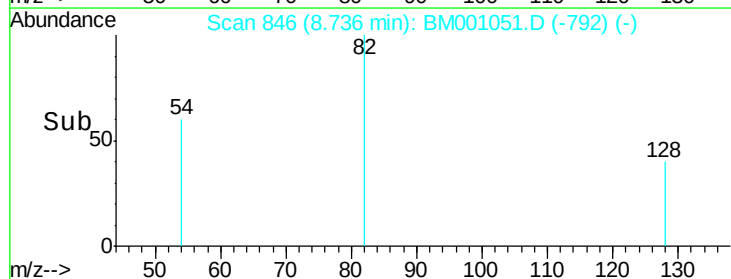
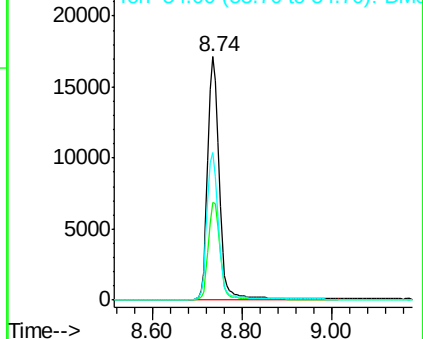
82 100

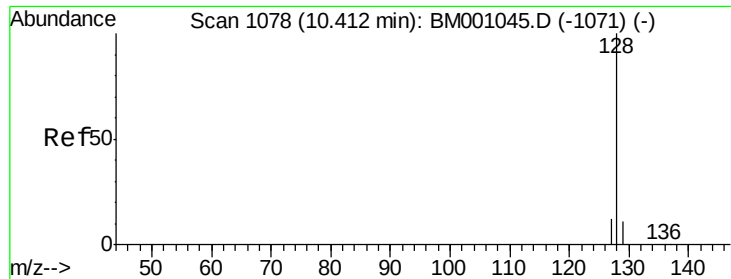
128 40.1 31.9 47.9

54 60.5 51.3 76.9



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





#6

Naphthalene

Concen: 0.00 ng

RT: 10.41 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

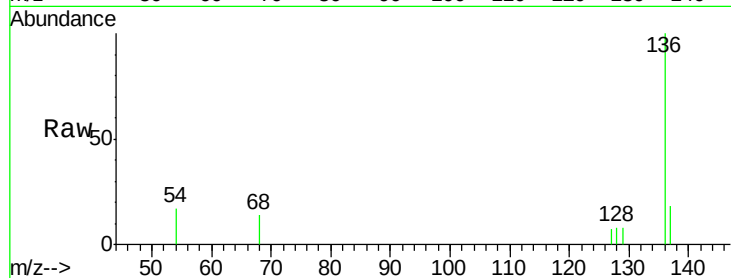
Tgt Ion:128 Resp: 7

Ion Ratio Lower Upper

128 100

129 92.6 9.3 13.9#

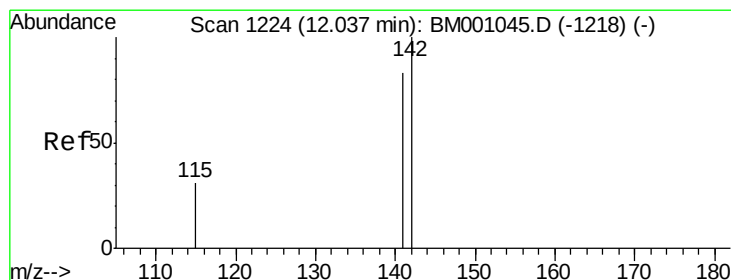
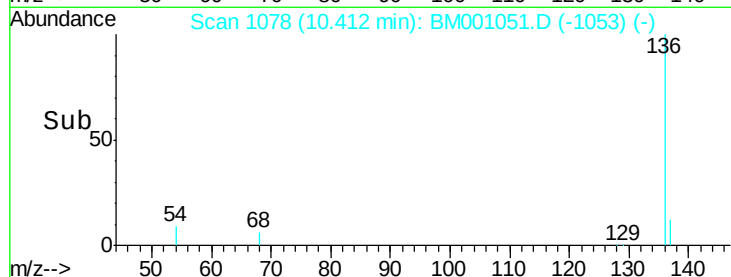
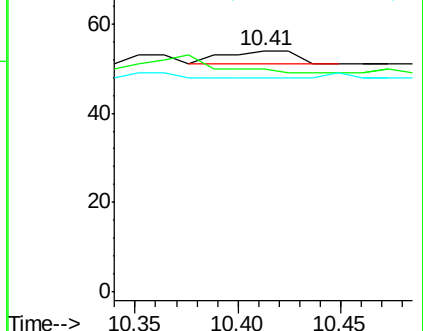
127 88.9 10.0 15.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.00 ng

RT: 12.05 min Scan# 1225

Delta R.T. 0.01 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

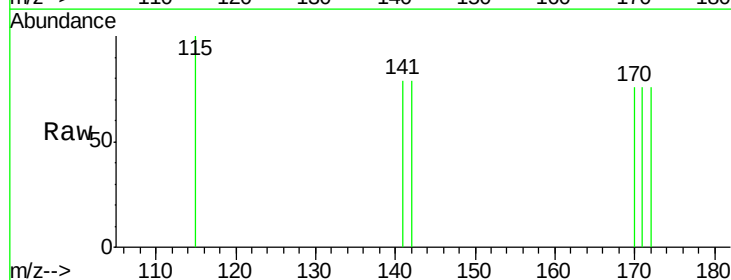
Tgt Ion:142 Resp: 6

Ion Ratio Lower Upper

142 100

141 100.0 66.7 100.1

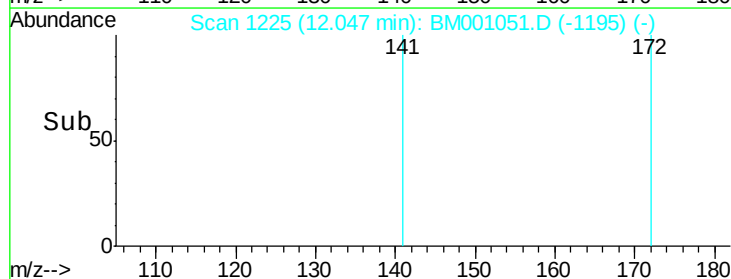
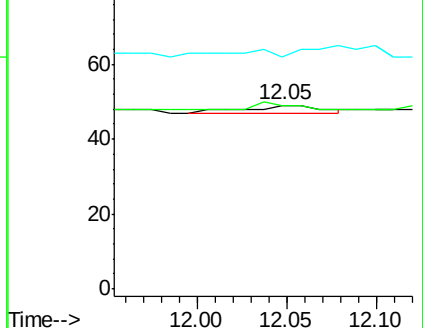
115 126.5 25.5 38.3#

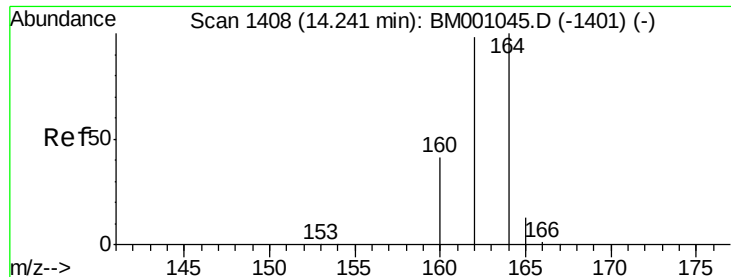


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.24 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

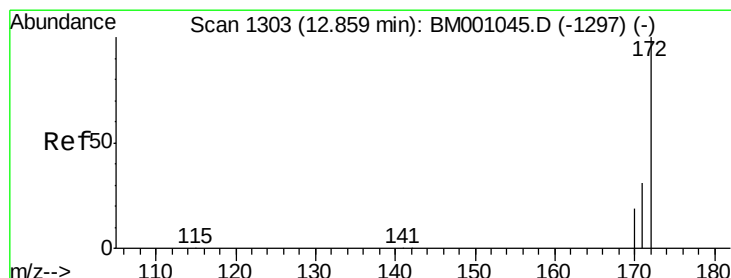
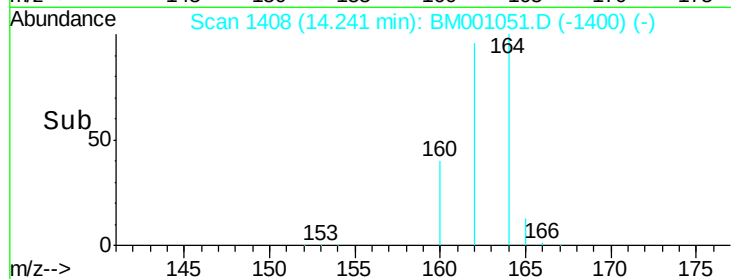
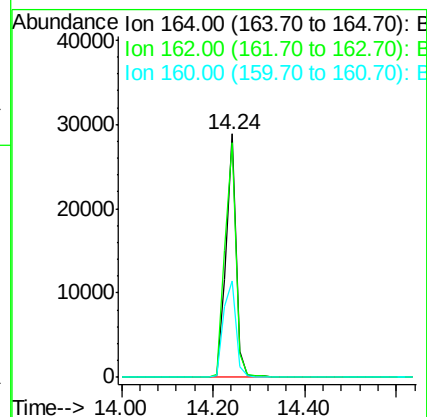
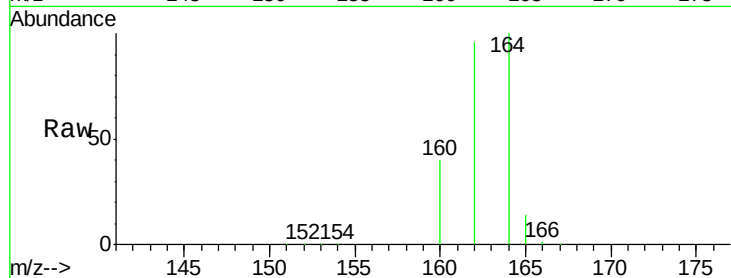
Tgt Ion:164 Resp: 45305

Ion Ratio Lower Upper

164 100

162 96.2 78.5 117.7

160 39.8 32.9 49.3



#9

2-Fluorobiphenyl

Concen: 6.20 ng

RT: 12.86 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

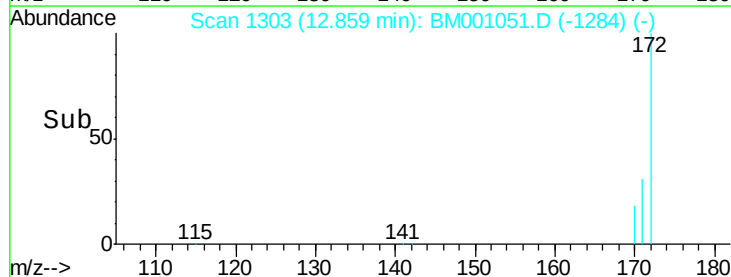
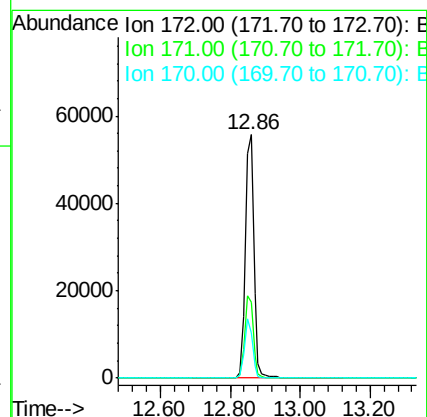
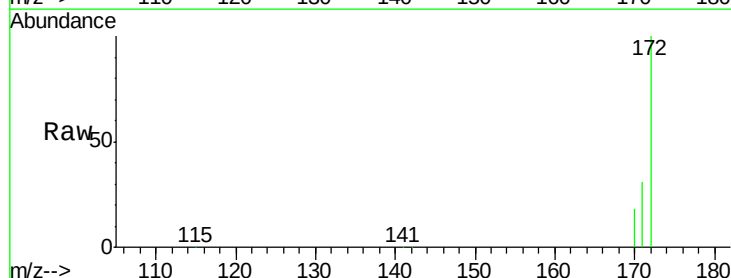
Tgt Ion:172 Resp: 93032

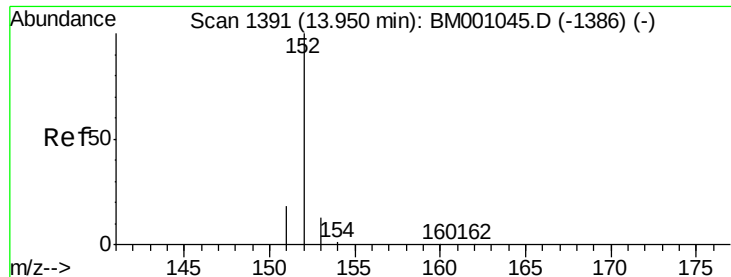
Ion Ratio Lower Upper

172 100

171 31.0 25.6 38.4

170 18.4 15.8 23.6





#10

Acenaphthylene

Concen: 0.24 ng

RT: 13.54 min Scan# 1367

Delta R.T. -0.41 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

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PB82779BL

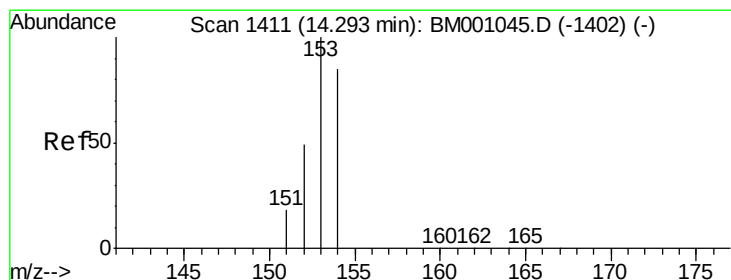
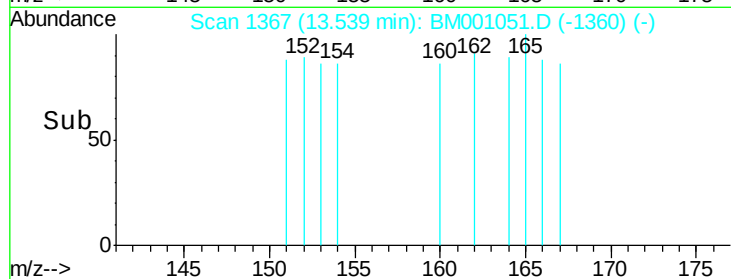
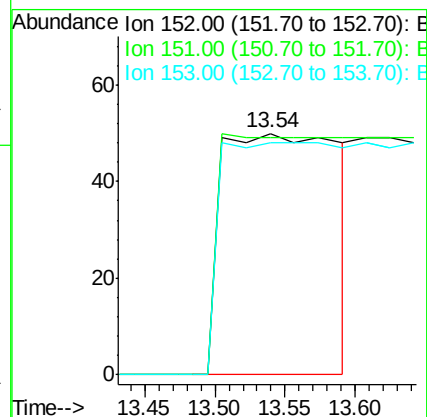
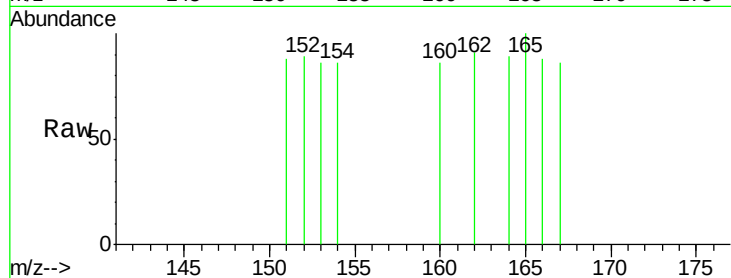
Tgt Ion:152 Resp: 266

Ion Ratio Lower Upper

152 100

151 0.0 14.7 22.1#

153 0.0 10.2 15.2#



#11

Acenaphthene

Concen: 0.00 ng

RT: 14.29 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

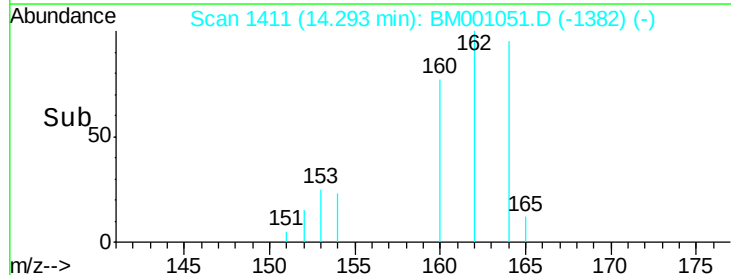
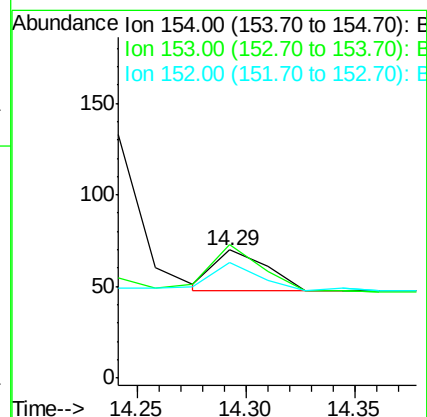
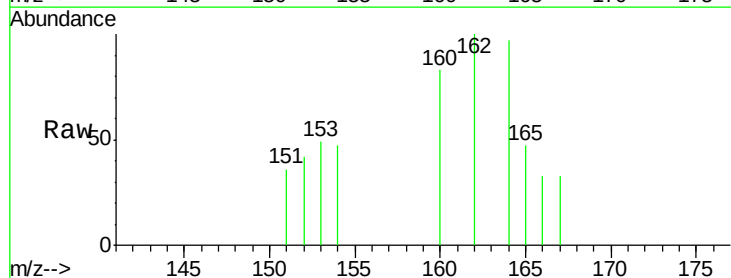
Tgt Ion:154 Resp: 36

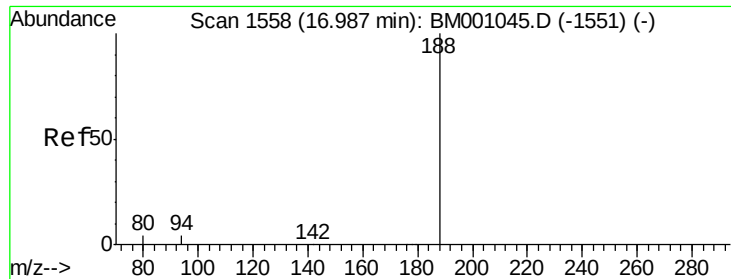
Ion Ratio Lower Upper

154 100

153 163.9 88.1 132.1#

152 75.0 42.3 63.5#





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

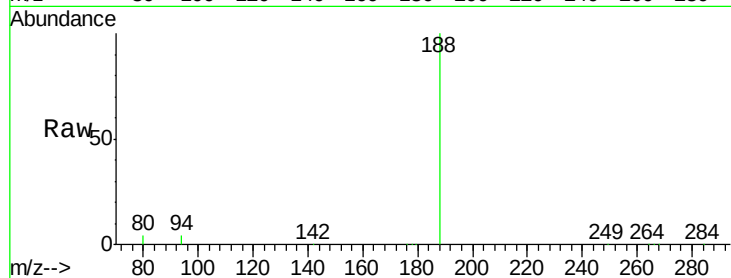
Tgt Ion:188 Resp: 101632

Ion Ratio Lower Upper

188 100

94 4.2 3.6 5.4

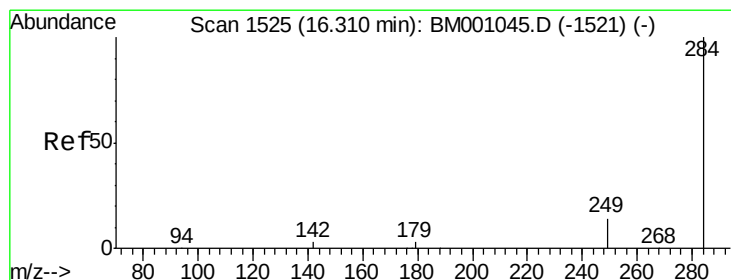
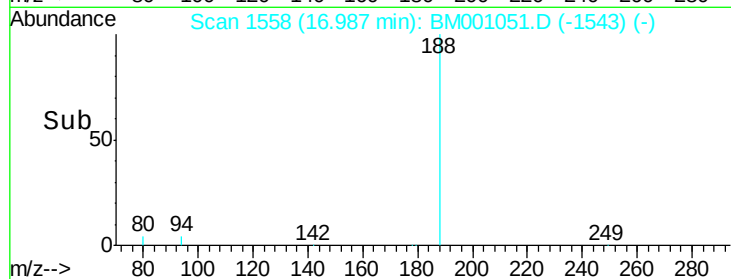
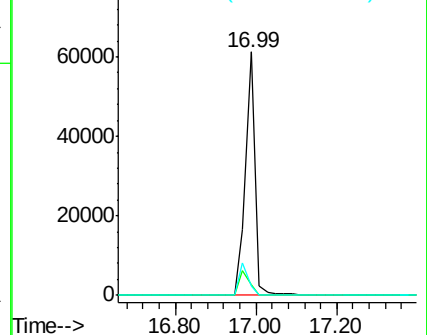
80 3.7 3.0 4.6



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



#14

Hexachlorobenzene

Concen: 0.18 ng

RT: 15.94 min Scan# 1507

Delta R.T. -0.37 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

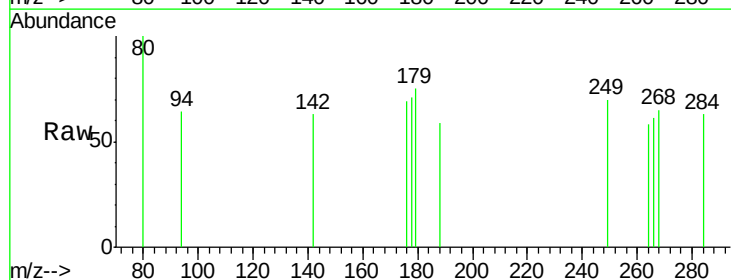
Tgt Ion:284 Resp: 227

Ion Ratio Lower Upper

284 100

142 126.0 0.0 0.0#

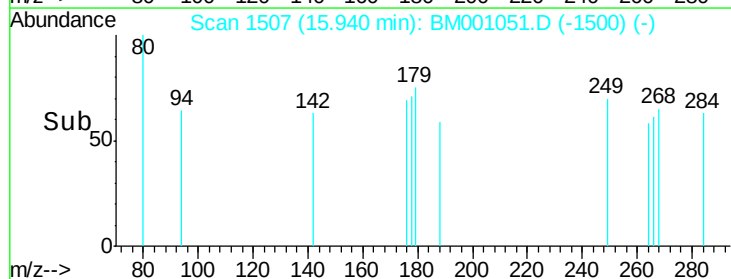
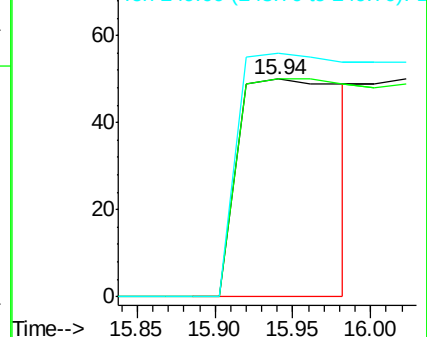
249 140.5 0.0 0.0#

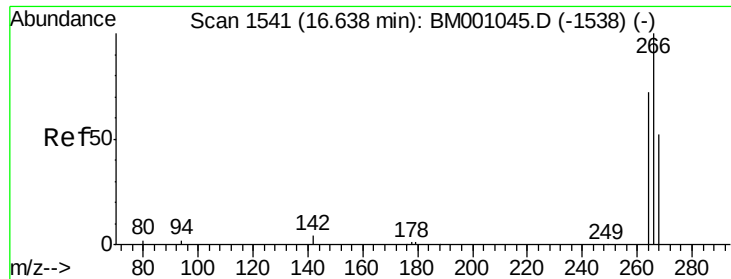


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

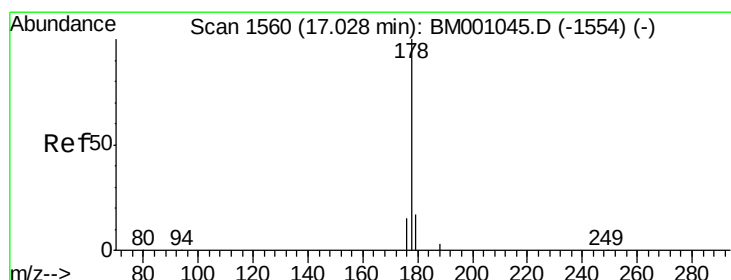
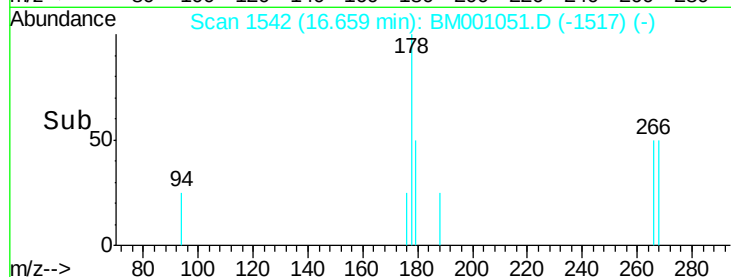
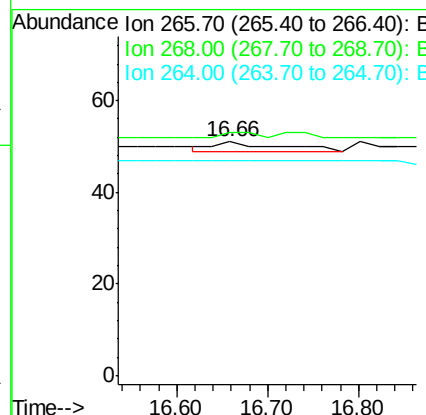
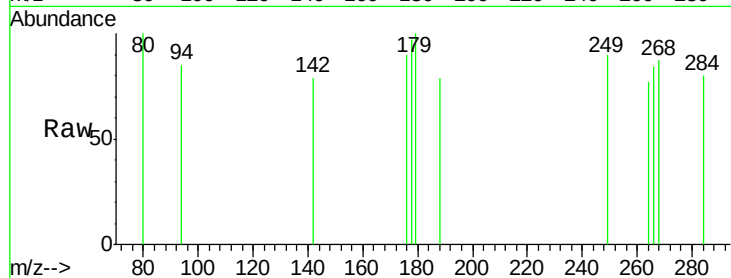




#15
 Pentachlorophenol
 Concen: 0.34 ng
 RT: 16.66 min Scan# 1542
 Delta R.T. 0.02 min
 Lab File: BM001051.D
 Acq: 18 Apr 2015 08:37

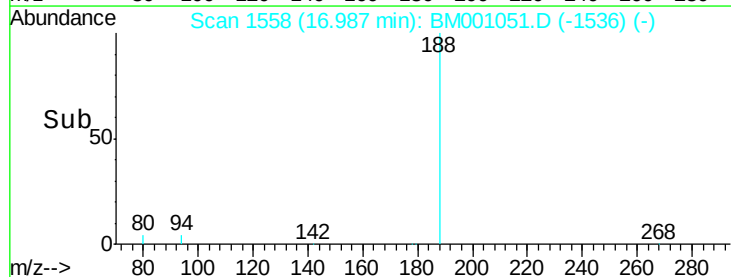
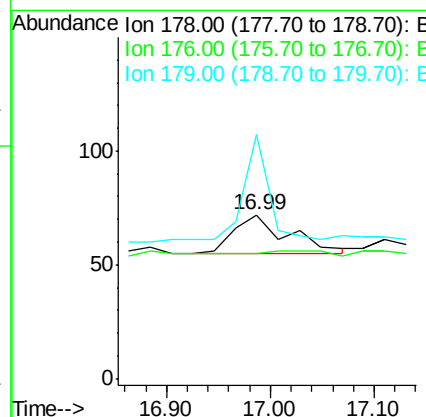
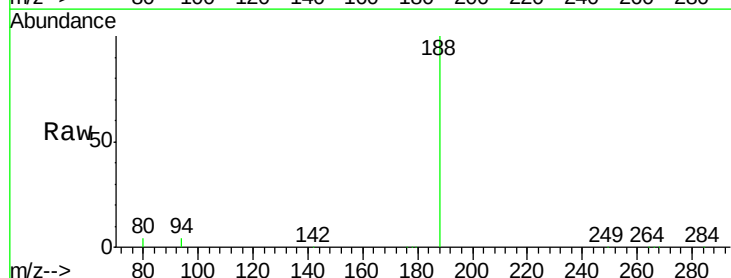
Instrument :
 BNA_M
 ClientSampleId :
 PB82779BL

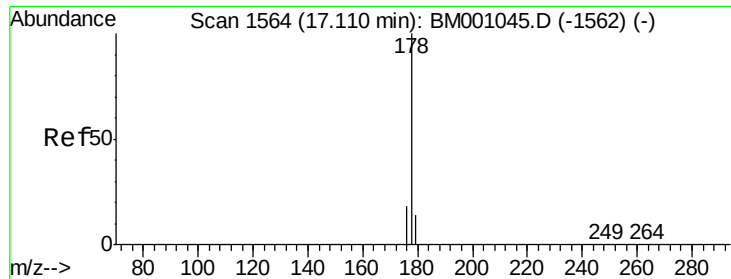
Tgt Ion: 266 Resp: 10
 Ion Ratio Lower Upper
 266 100
 268 103.9 46.3 69.5#
 264 92.2 59.8 89.6#



#16
 Phenanthrene
 Concen: 0.14 ng
 RT: 16.99 min Scan# 1558
 Delta R.T. -0.04 min
 Lab File: BM001051.D
 Acq: 18 Apr 2015 08:37

Tgt Ion: 178 Resp: 62
 Ion Ratio Lower Upper
 178 100
 176 0.0 14.6 22.0#
 179 135.5 12.6 19.0#





#17

Anthracene

Concen: 0.00 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

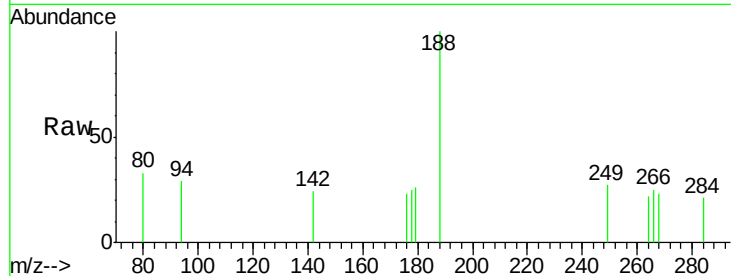
Tgt Ion:178 Resp: 12

Ion Ratio Lower Upper

178 100

176 0.0 14.3 21.5#

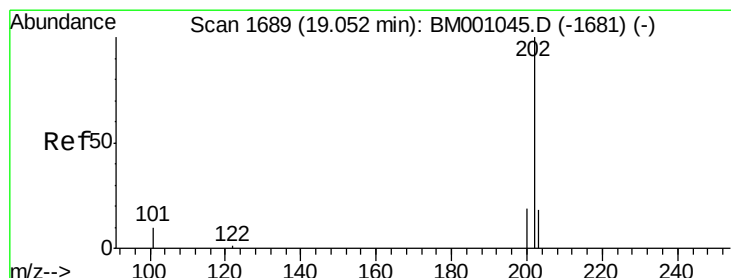
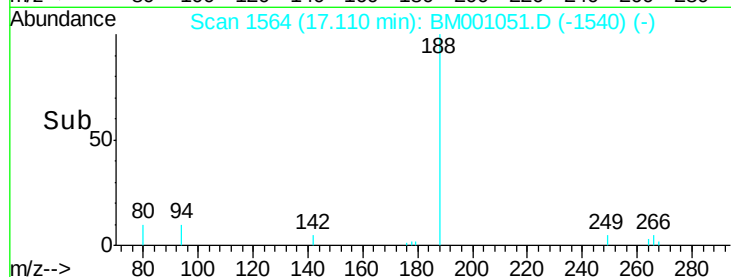
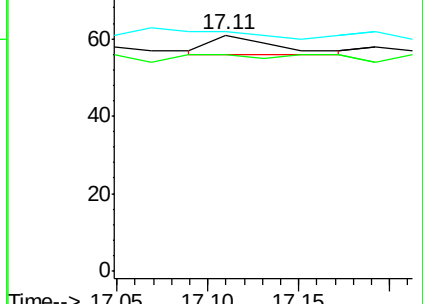
179 0.0 11.8 17.8#



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



#18

Fluoranthene

Concen: 0.00 ng

RT: 19.05 min Scan# 1689

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

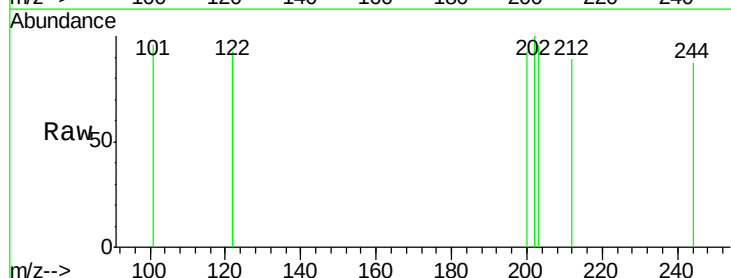
Tgt Ion:202 Resp: 15

Ion Ratio Lower Upper

202 100

101 53.3 10.1 15.1#

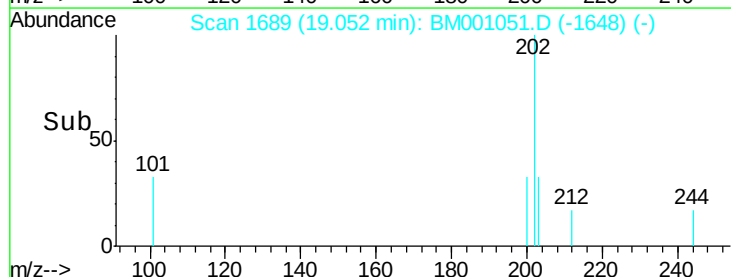
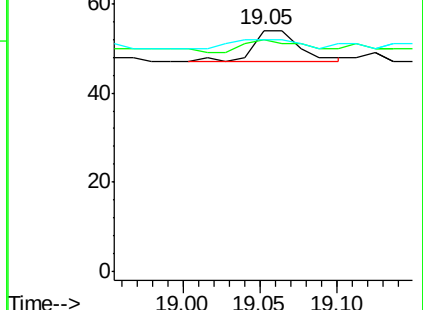
203 40.0 13.8 20.8#

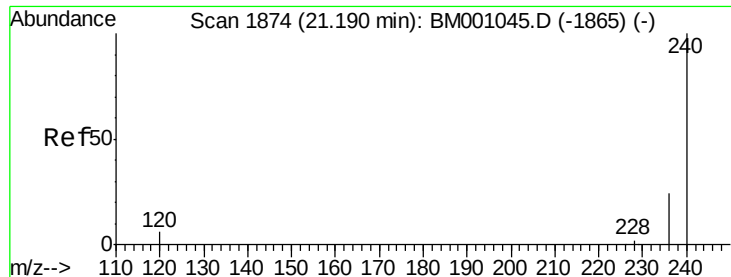


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 21.19 min Scan# 1874

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

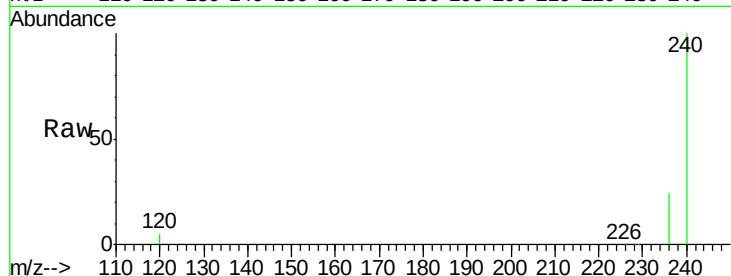
Tgt Ion:240 Resp: 86933

Ion Ratio Lower Upper

240 100

120 5.3 4.6 6.8

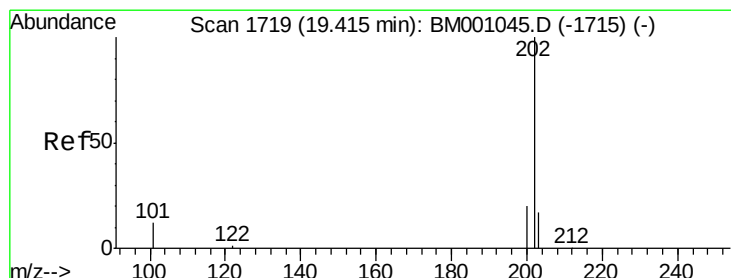
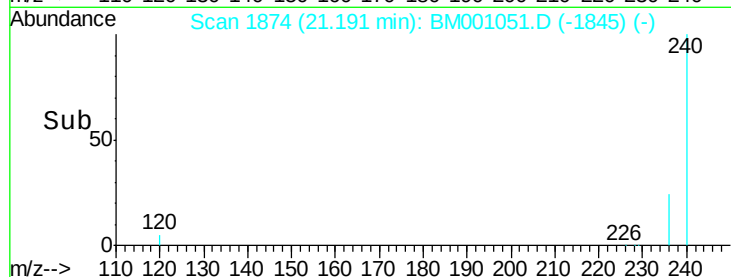
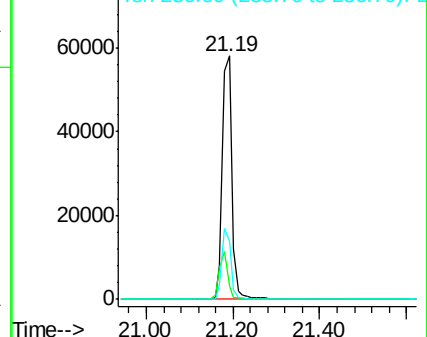
236 23.6 19.1 28.7



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



#20

Pyrene

Concen: 0.15 ng

RT: 19.42 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

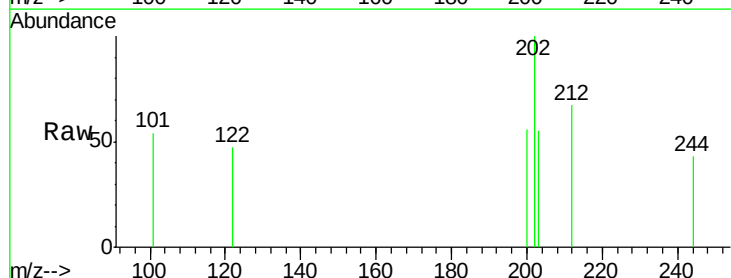
Tgt Ion:202 Resp: 95

Ion Ratio Lower Upper

202 100

200 18.9 16.3 24.5

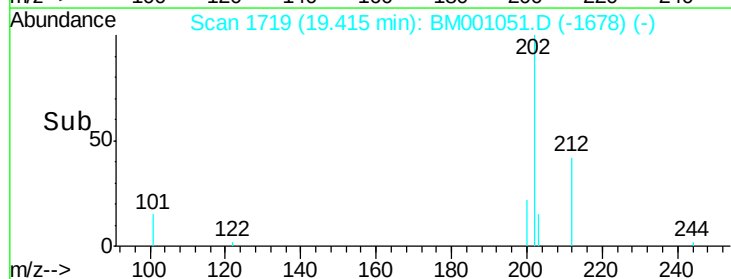
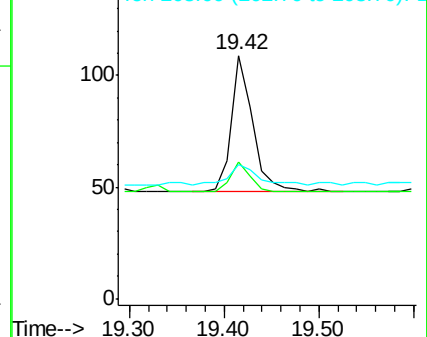
203 20.0 13.8 20.6

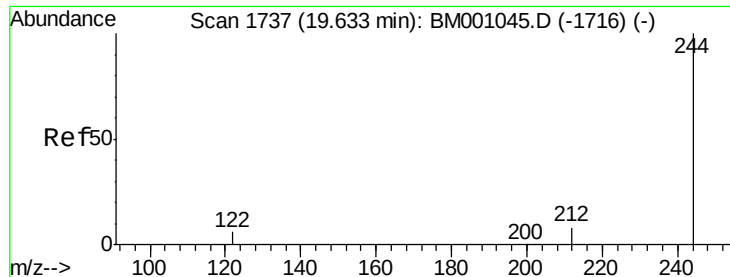


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: -5.00 ng

RT: 19.63 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

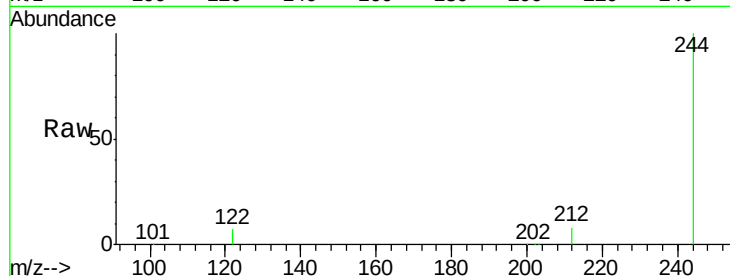
Tgt Ion:244 Resp: 75032

Ion Ratio Lower Upper

244 100

212 8.2 7.1 10.7

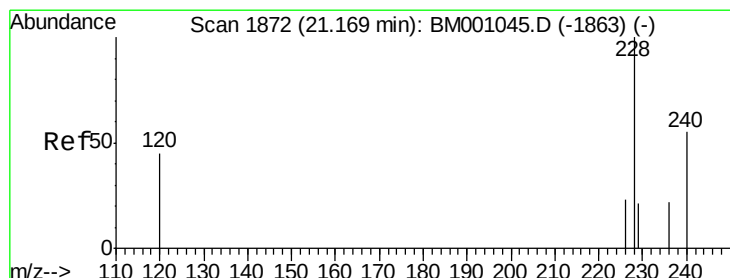
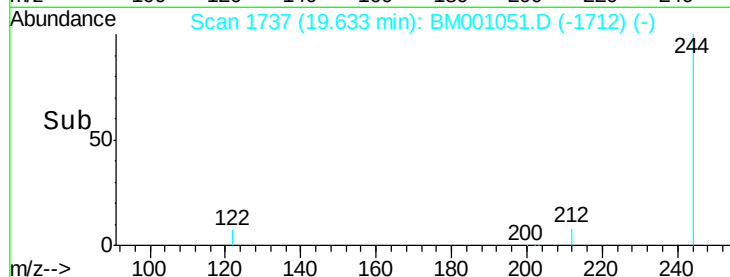
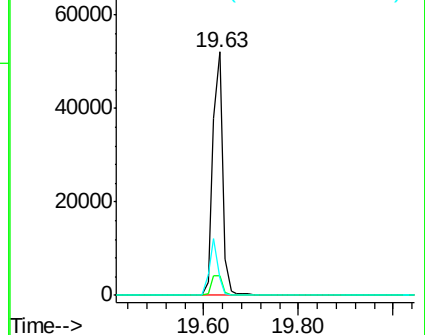
122 7.1 5.9 8.9



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



#22

Benzo(a)anthracene

Concen: 0.18 ng

RT: 21.18 min Scan# 1873

Delta R.T. 0.01 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

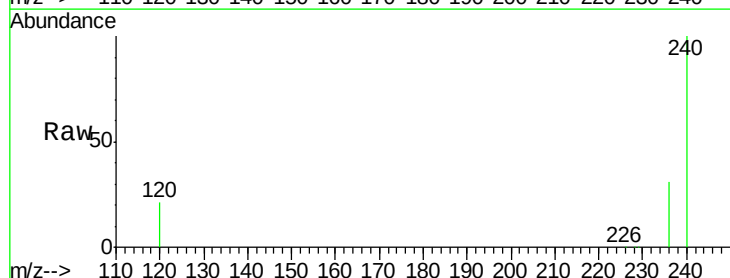
Tgt Ion:228 Resp: 355

Ion Ratio Lower Upper

228 100

226 25.3 19.0 28.6

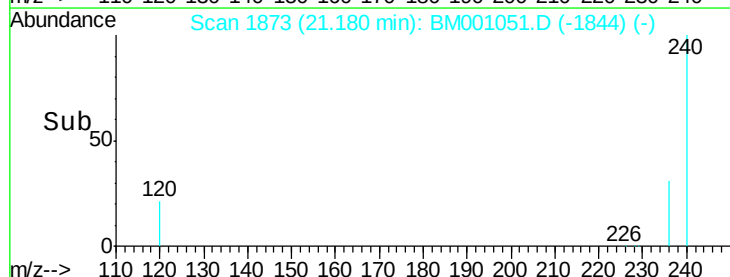
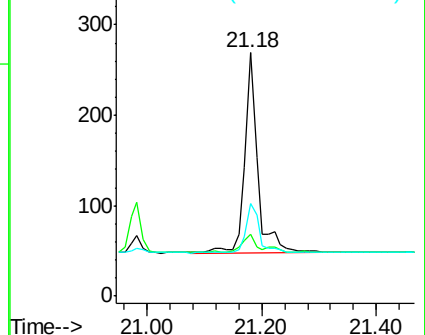
229 38.3 16.8 25.2#

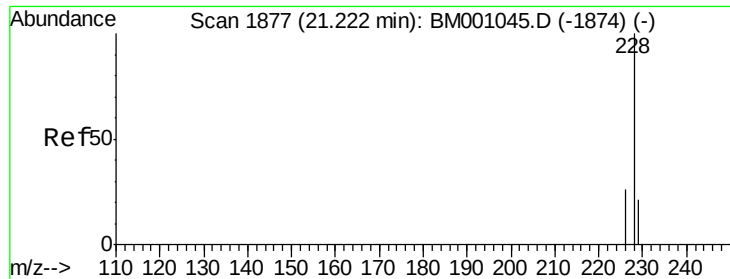


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 0.14 ng

RT: 21.18 min Scan# 1873

Delta R.T. -0.04 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL

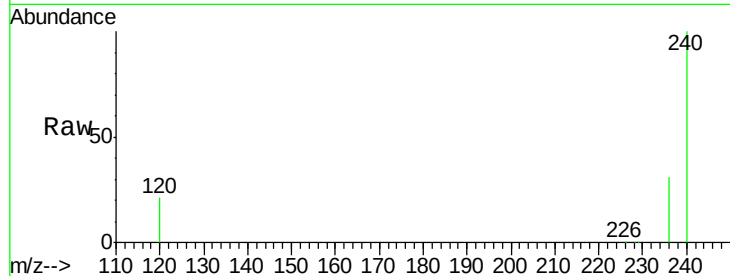
Tgt Ion: 228 Resp: 355

Ion Ratio Lower Upper

228 100

226 25.3 20.6 31.0

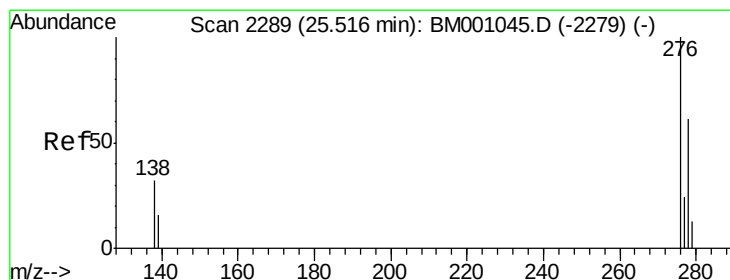
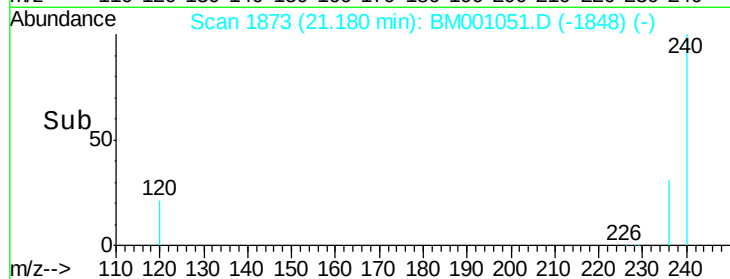
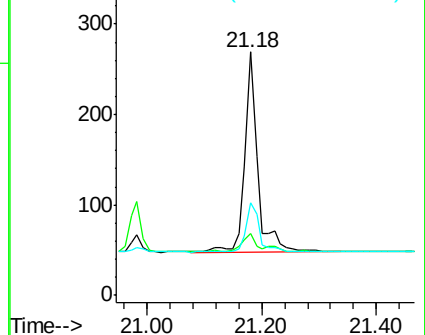
229 38.3 17.2 25.8#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.16 ng

RT: 25.53 min Scan# 2290

Delta R.T. 0.01 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

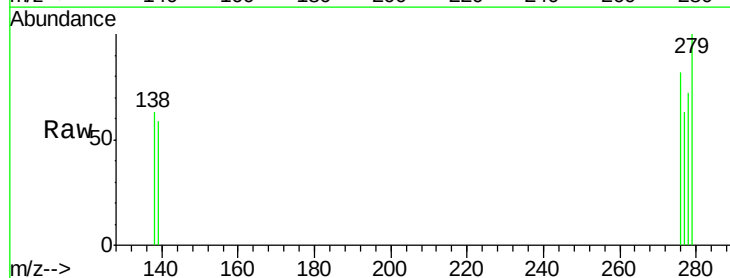
Tgt Ion: 276 Resp: 141

Ion Ratio Lower Upper

276 100

138 29.8 26.3 39.5

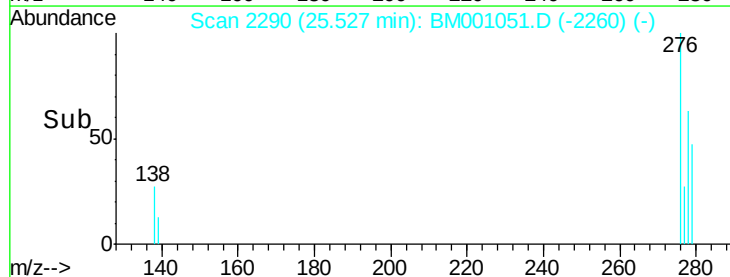
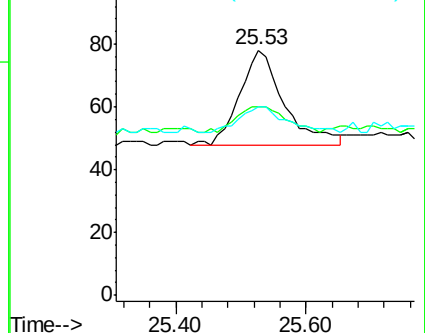
277 27.7 19.5 29.3

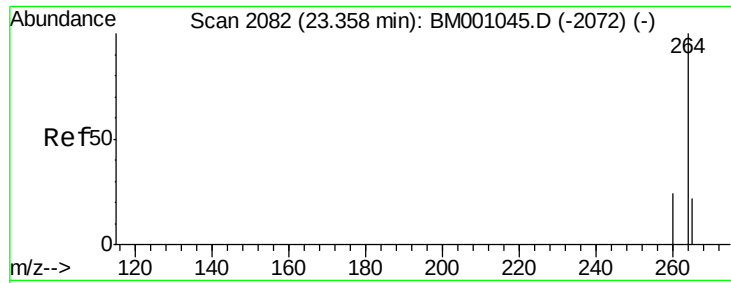


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

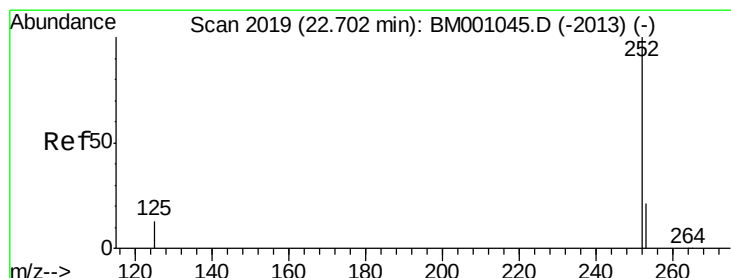
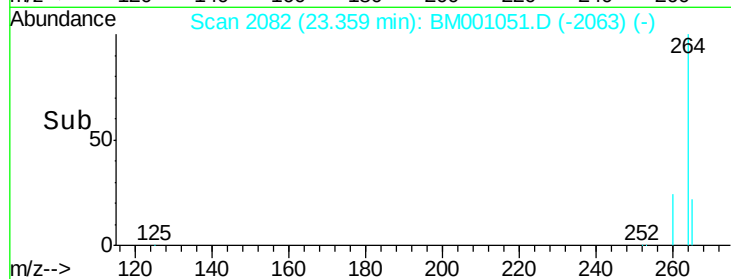
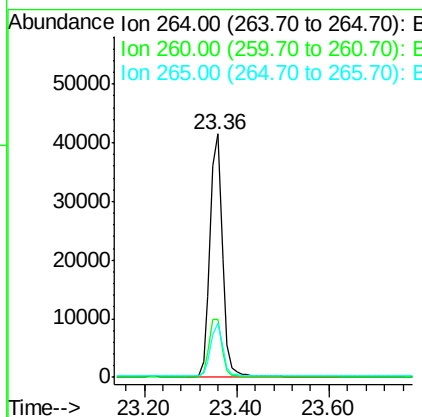
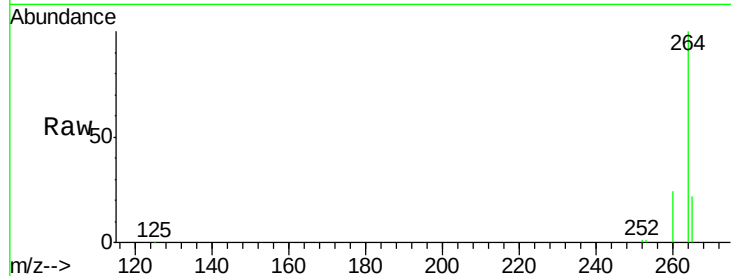




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.36 min Scan# 2082
 Delta R.T. 0.00 min
 Lab File: BM001051.D
 Acq: 18 Apr 2015 08:37

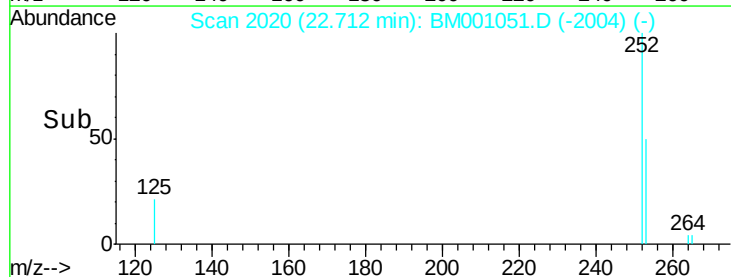
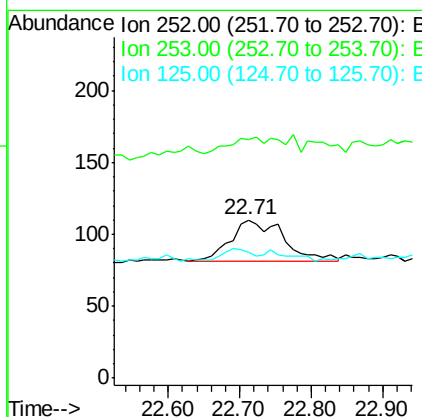
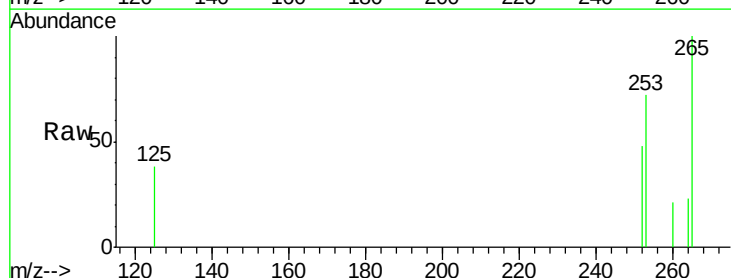
Instrument :
 BNA_M
 ClientSampleId :
 PB82779BL

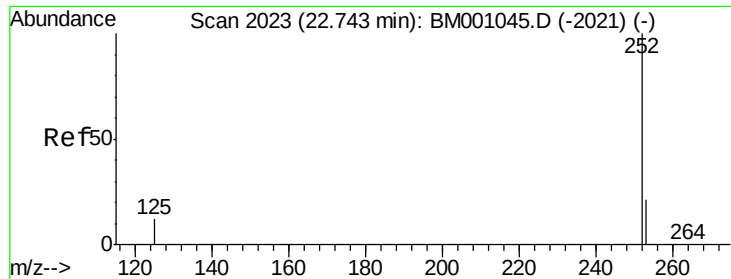
Tgt Ion: 264 Resp: 78487
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.6
 265 22.1 17.9 26.9



#26
 Benzo(b)fluoranthene
 Concen: 0.17 ng
 RT: 22.71 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BM001051.D
 Acq: 18 Apr 2015 08:37

Tgt Ion: 252 Resp: 153
 Ion Ratio Lower Upper
 252 100
 253 150.9 18.2 27.2#
 125 80.0 10.9 16.3#

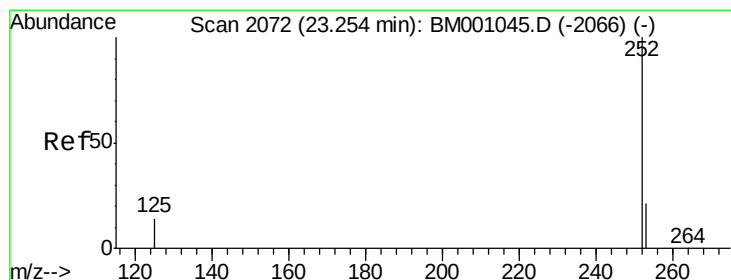
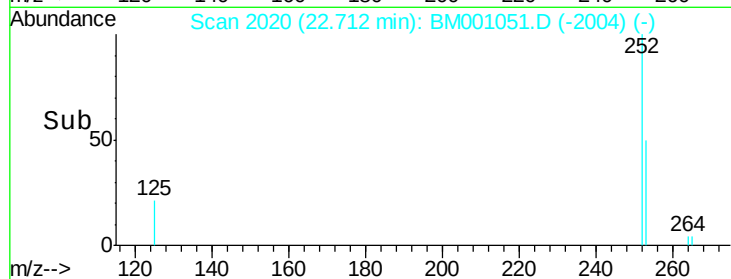
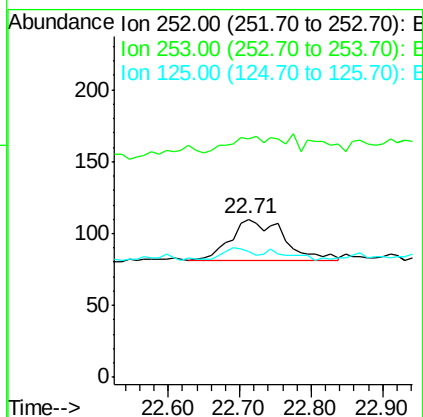
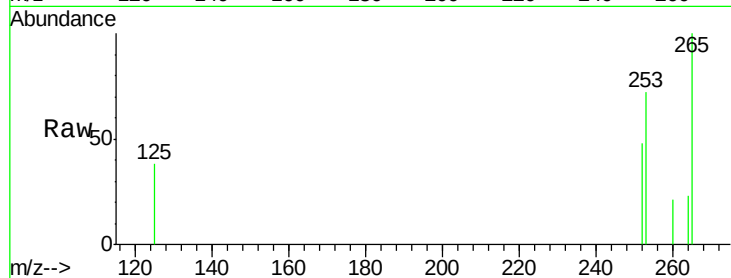




#27
Benzo(k)fluoranthene
Concen: 0.15 ng
RT: 22.71 min Scan# 2020
Delta R.T. -0.03 min
Lab File: BM001051.D
Acq: 18 Apr 2015 08:37

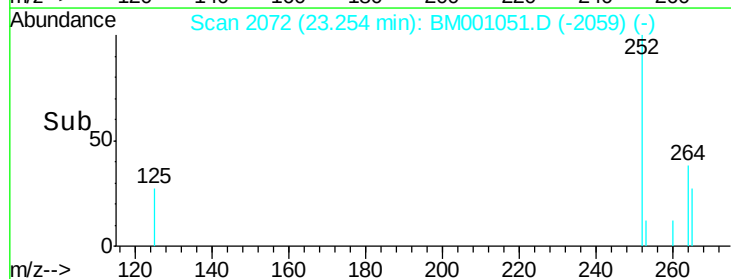
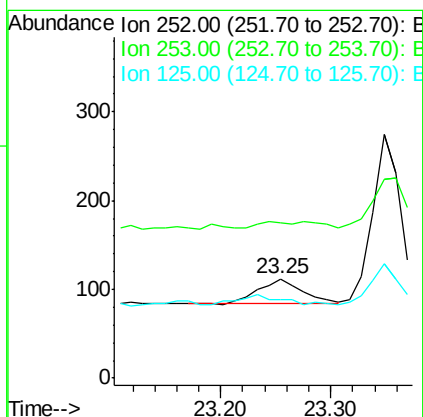
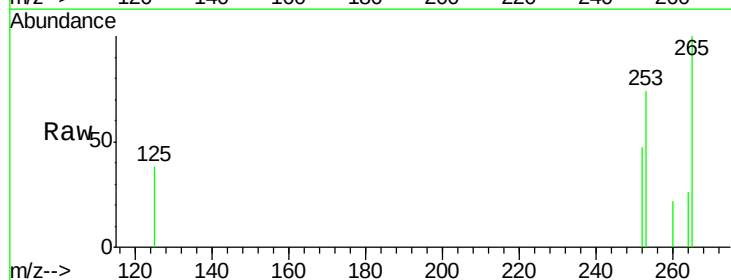
Instrument :
BNA_M
ClientSampleId :
PB82779BL

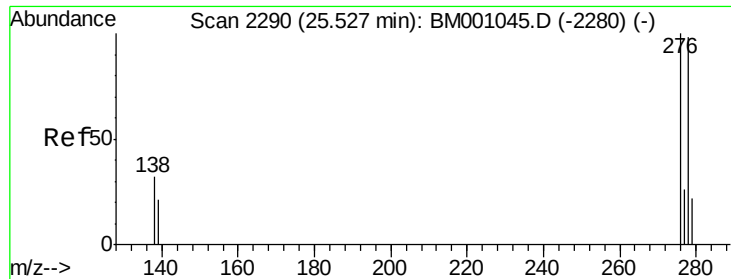
Tgt Ion:252 Resp: 153
Ion Ratio Lower Upper
252 100
253 150.9 18.3 27.5#
125 80.0 10.6 15.8#



#28
Benzo(a)pyrene
Concen: 0.18 ng
RT: 23.25 min Scan# 2072
Delta R.T. 0.00 min
Lab File: BM001051.D
Acq: 18 Apr 2015 08:37

Tgt Ion:252 Resp: 76
Ion Ratio Lower Upper
252 100
253 156.3 18.6 27.8#
125 79.5 11.9 17.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.17 ng

RT: 25.54 min Scan# 2291

Delta R.T. 0.01 min

Lab File: BM001051.D

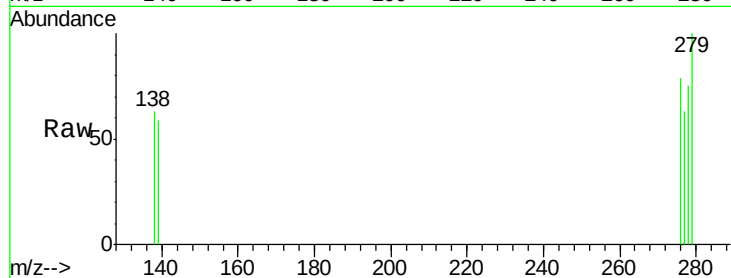
Acq: 18 Apr 2015 08:37

Instrument :

BNA_M

ClientSampleId :

PB82779BL



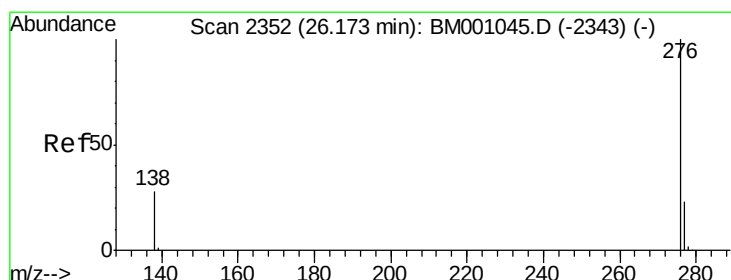
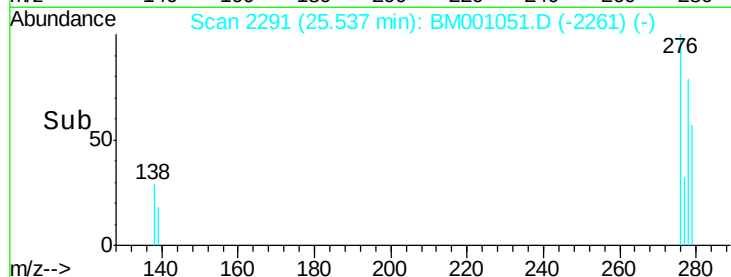
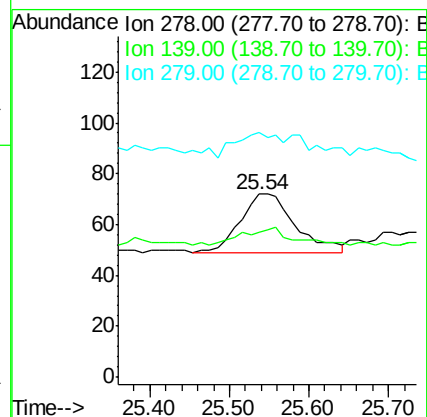
Tgt Ion:278 Resp: 111

Ion Ratio Lower Upper

278 100

139 79.2 18.2 27.2#

279 133.3 19.1 28.7#



#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 26.18 min Scan# 2353

Delta R.T. 0.01 min

Lab File: BM001051.D

Acq: 18 Apr 2015 08:37

Tgt Ion:276 Resp: 141

Ion Ratio Lower Upper

276 100

277 76.0 19.0 28.4#

138 81.3 23.4 35.2#

