

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061315\
 Data File : BM001688.D
 Acq On : 13 Jun 2015 02:23
 Operator : TP/IZ
 Sample : PB83987BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB83987BSD

Quant Time: Jun 13 03:23:49 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIM-BM061315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 13 02:11:48 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.66	152	15357	5.00	ng	0.00
6) Naphthalene-d8	10.46	136	57095	5.00	ng	0.00
12) Acenaphthene-d10	14.32	164	28101	5.00	ng	0.00
18) Phenanthrene-d10	17.06	188	85040	5.00	ng	0.00
25) Chrysene-d12	21.25	240	48898	5.00	ng	0.00
32) Perylene-d12	23.48	264	43849	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	36168	9.77	ng	0.00
5) Phenol-d6	6.83	99	48527	10.40	ng	0.00
7) Nitrobenzene-d5	8.83	82	30392	6.75	ng	0.00
13) 2,4,6-Tribromophenol	15.80	330	7041	10.72	ng	0.00
14) 2-Fluorobiphenyl	12.94	172	63113	6.33	ng	0.00
27) Terphenyl-d14	19.70	244	47901	6.56	ng	0.00

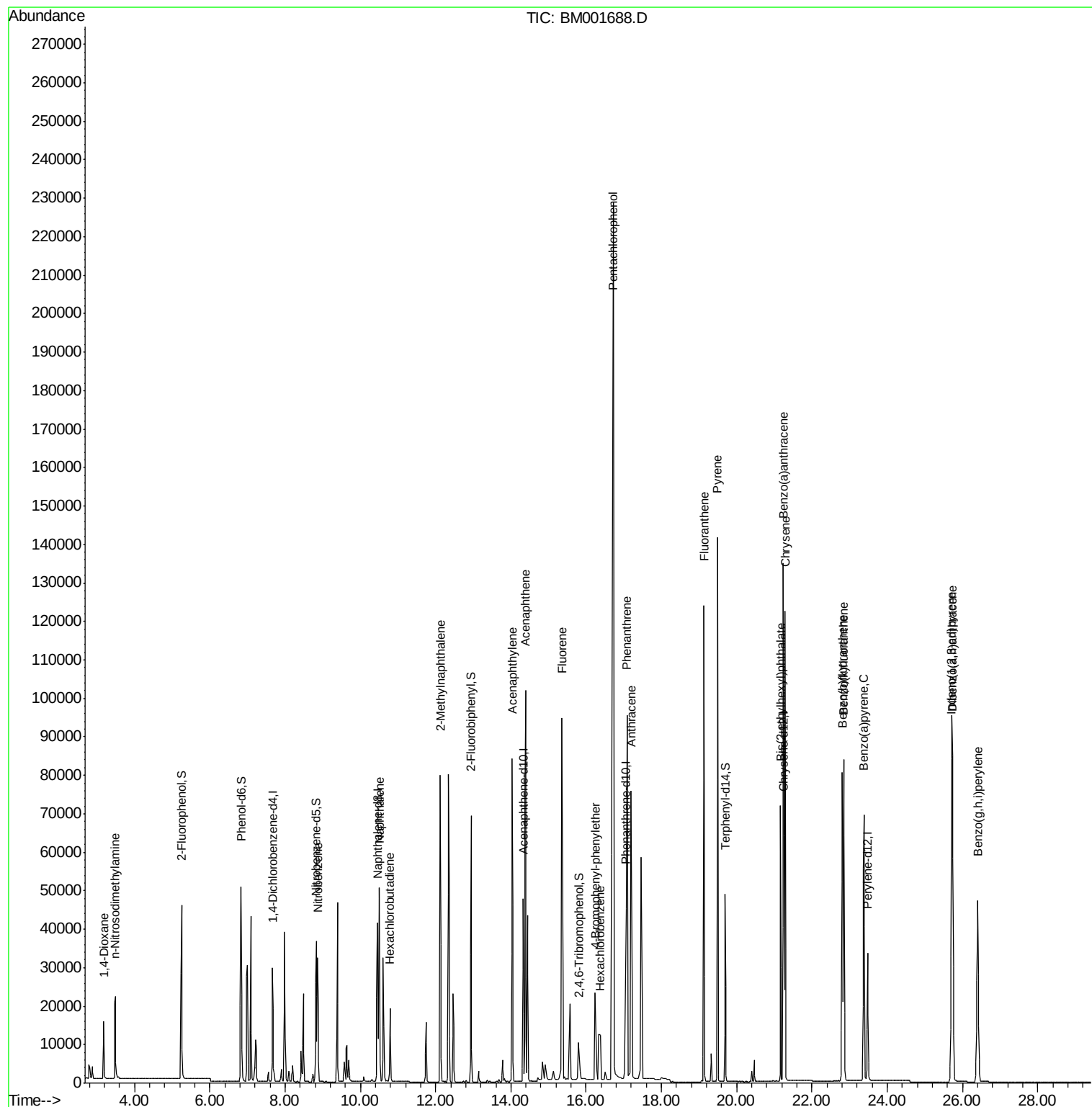
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.18	88	10611	6.58	ng	97
3) n-Nitrosodimethylamine	3.48	42	18585	6.69	ng	94
8) Nitrobenzene	8.87	77	34350	7.06	ng	98
9) Naphthalene	10.51	128	88067	6.39	ng	98
10) Hexachlorobutadiene	10.78	225	15037	6.51	ng	99
11) 2-Methylnaphthalene	12.13	142	58522	6.63	ng	97
15) Acenaphthylene	14.03	152	94325	7.03	ng	100
16) Acenaphthene	14.39	154	54791	6.64	ng	100
17) Fluorene	15.36	166	86271	7.07	ng	100
19) 4-Bromophenyl-phenylether	16.24	248	11751	7.30	ng	99
20) Hexachlorobenzene	16.38	284	21103	6.90	ng	# 100
21) Pentachlorophenol	16.72	266	202386	100.10	ng	96
22) Phenanthrene	17.09	178	144174	7.60	ng	99
23) Anthracene	17.19	178	115143	7.59	ng	100
24) Fluoranthene	19.13	202	114507	7.39	ng	99
26) Pyrene	19.49	202	126121	7.64	ng	99
28) Benzo(a)anthracene	21.24	228	117224	7.60	ng	97
29) Chrysene	21.28	228	98255	6.85	ng	95
30) Bis(2-ethylhexyl)phthalate	21.16	149	74716	7.09	ng	98
31) Indeno(1,2,3-cd)pyrene	25.71	276	108286	7.17	ng	99
33) Benzo(b)fluoranthene	22.80	252	101092	7.35	ng	98
34) Benzo(k)fluoranthene	22.84	252	97254	7.50	ng	95
35) Benzo(a)pyrene	23.38	252	93283	7.78	ng	98
36) Dibenzo(a,h)anthracene	25.73	278	87715	7.38	ng	97
37) Benzo(g,h,i)perylene	26.40	276	90393	7.24	ng	98

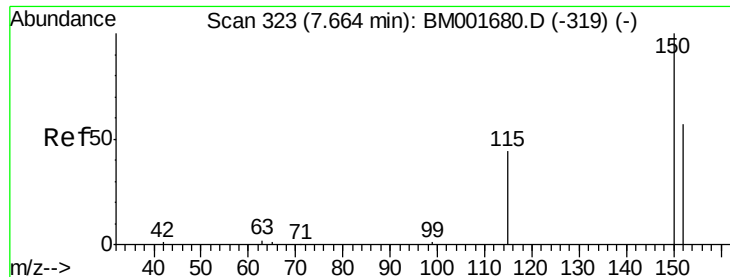
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.66 min Scan# 323

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

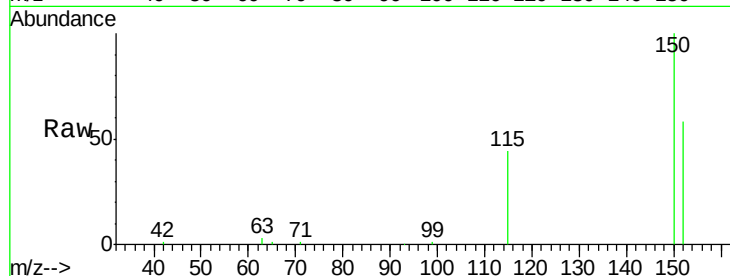
Tgt Ion:152 Resp: 15357

Ion Ratio Lower Upper

152 100

150 172.0 139.6 209.4

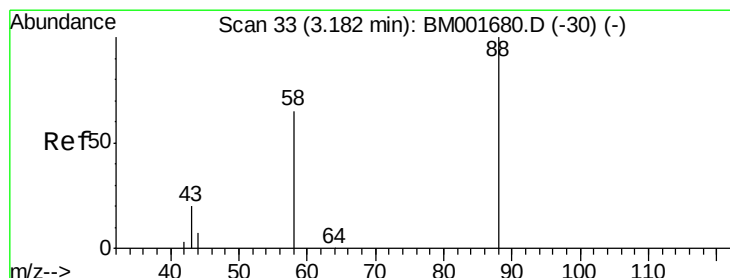
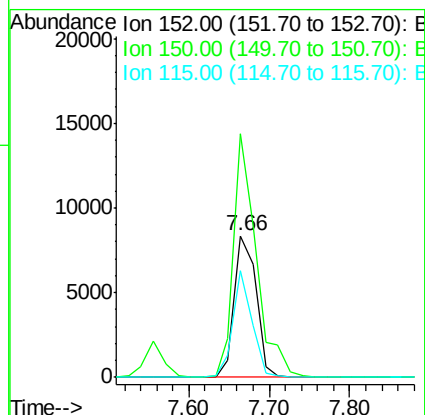
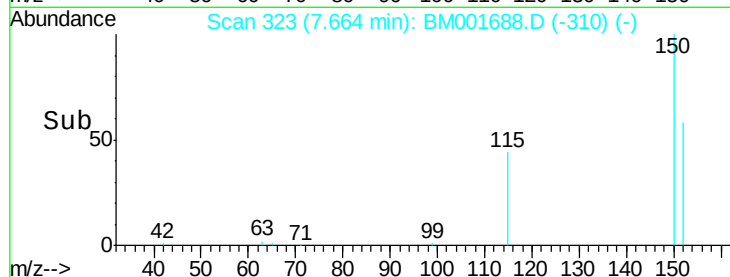
115 75.4 62.5 93.7



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: 6.58 ng

RT: 3.18 min Scan# 33

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

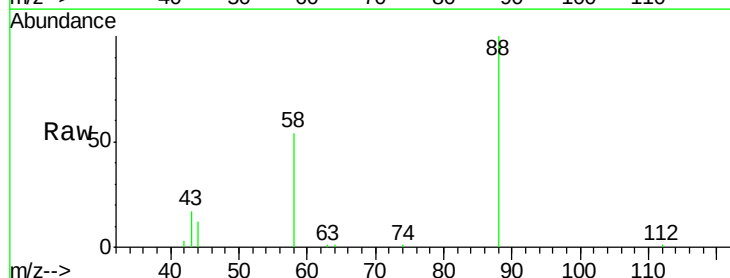
Tgt Ion: 88 Resp: 10611

Ion Ratio Lower Upper

88 100

58 87.9 68.1 102.1

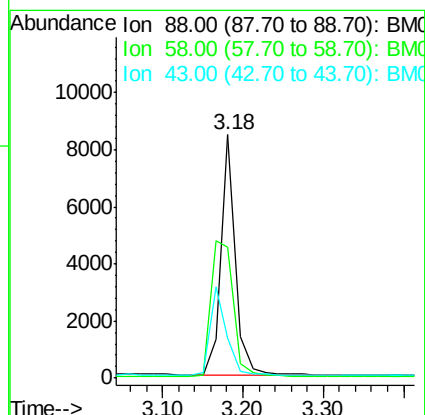
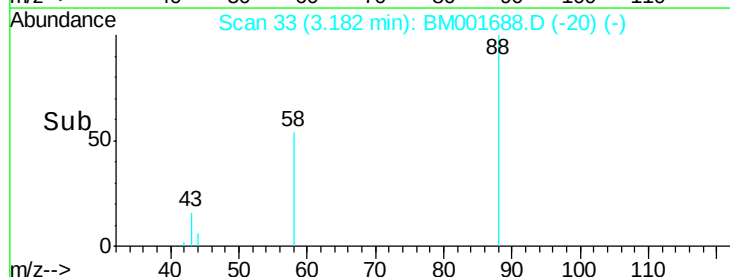
43 41.4 31.8 47.6

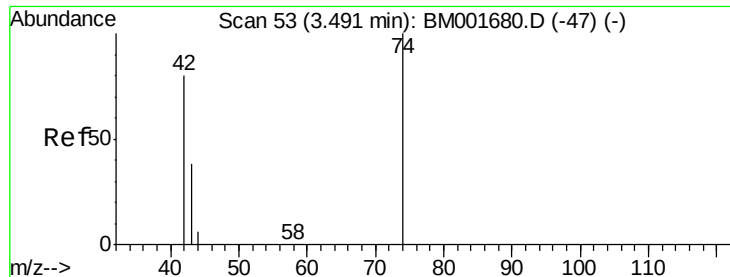


Abundance Ion 88.00 (87.70 to 88.70): BM

Ion 58.00 (57.70 to 58.70): BM

Ion 43.00 (42.70 to 43.70): BM





#3

n-Nitrosodimethylamine

Concen: 6.69 ng

RT: 3.48 min Scan# 52

Delta R.T. -0.02 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

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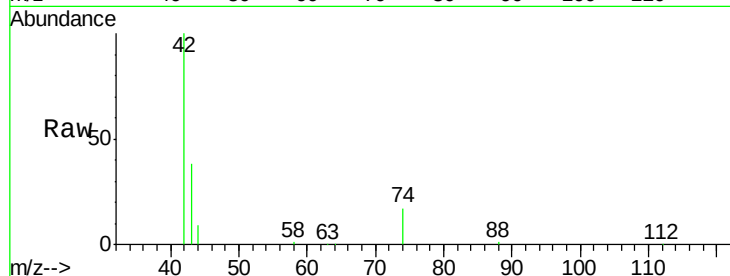
Tgt Ion: 42 Resp: 18585

Ion Ratio Lower Upper

42 100

74 94.6 80.5 120.7

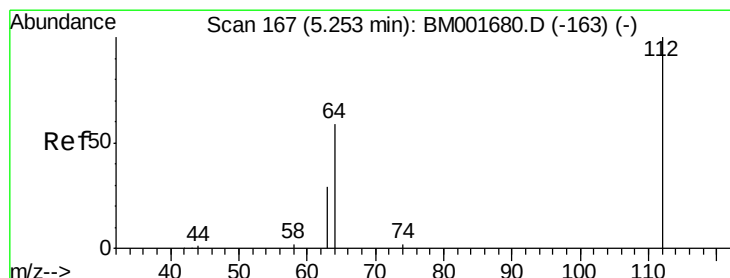
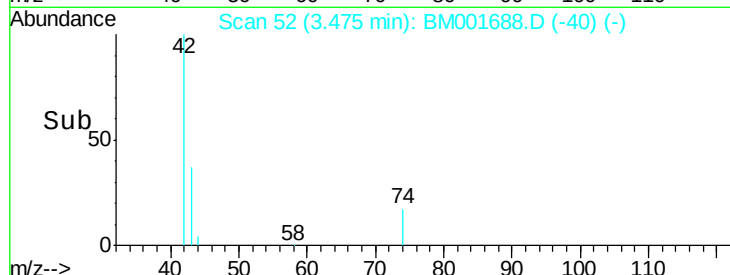
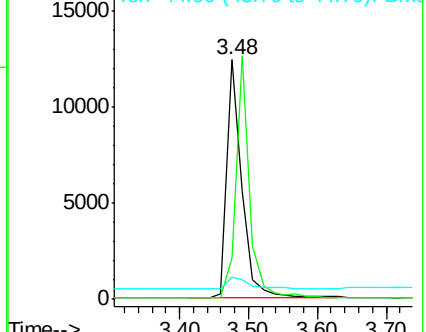
44 6.1 5.4 8.0



Abundance Ion 42.00 (41.70 to 42.70): BM001688.D (-47) (-)

Ion 74.00 (73.70 to 74.70): BM001688.D (-47) (-)

Ion 44.00 (43.70 to 44.70): BM001688.D (-47) (-)



#4

2-Fluorophenol

Concen: 9.77 ng

RT: 5.25 min Scan# 167

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

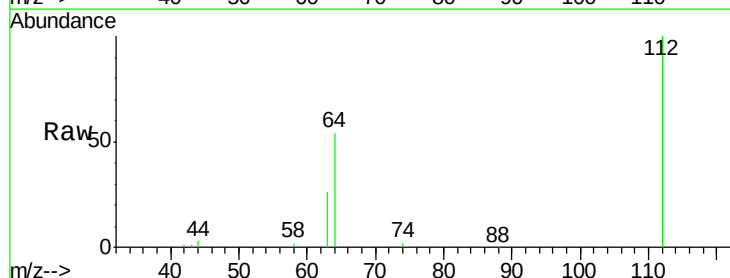
Tgt Ion: 112 Resp: 36168

Ion Ratio Lower Upper

112 100

64 68.5 54.9 82.3

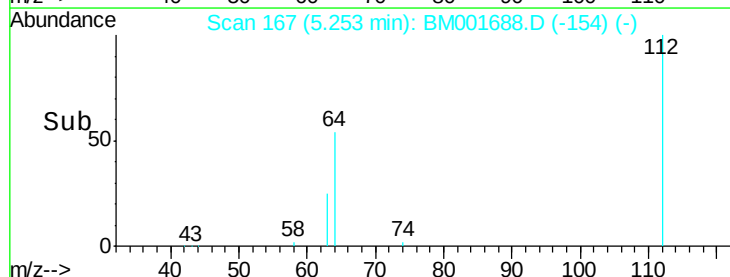
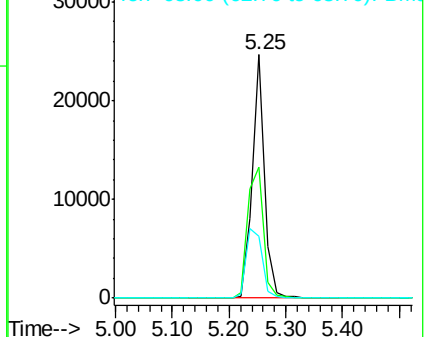
63 37.6 30.5 45.7

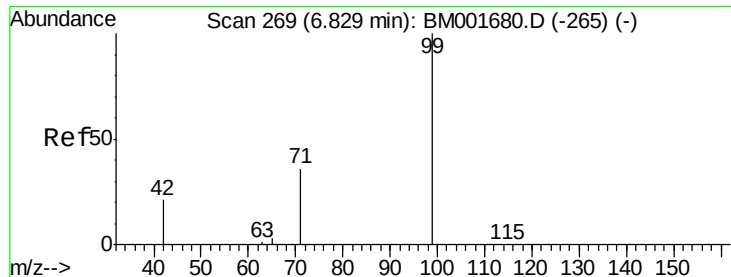


Abundance Ion 112.00 (111.70 to 112.70): BM001688.D (-163) (-)

Ion 64.00 (63.70 to 64.70): BM001688.D (-163) (-)

Ion 63.00 (62.70 to 63.70): BM001688.D (-163) (-)





#5

Phenol-d6

Concen: 10.40 ng

RT: 6.83 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

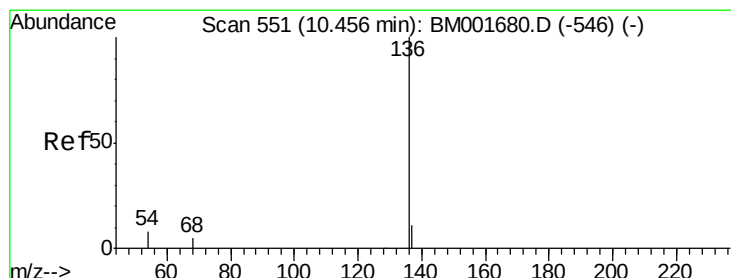
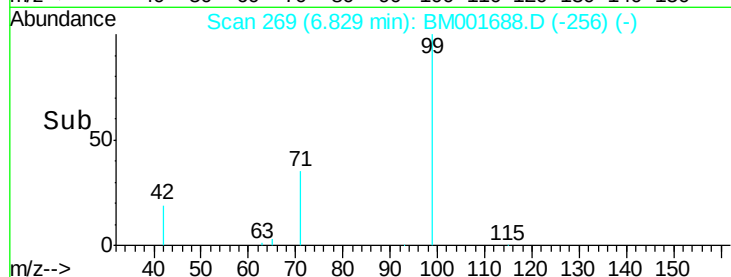
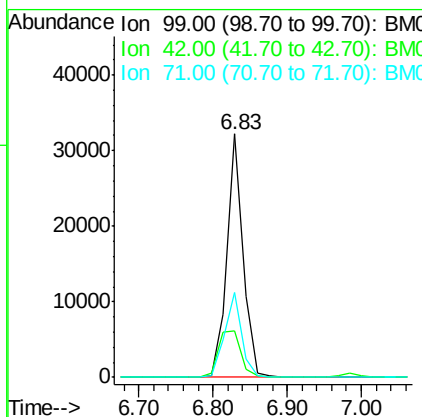
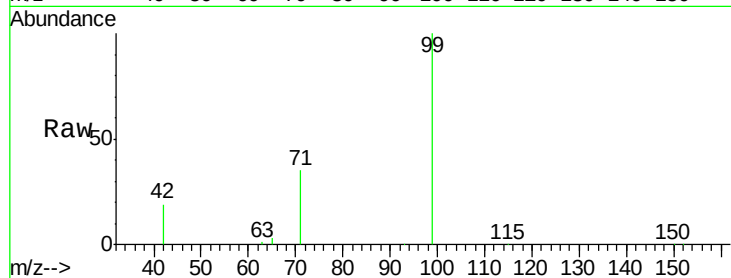
Tgt Ion: 99 Resp: 48527

Ion Ratio Lower Upper

99 100

42 26.2 21.0 31.6

71 36.0 28.7 43.1



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.46 min Scan# 551

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Tgt Ion: 136 Resp: 57095

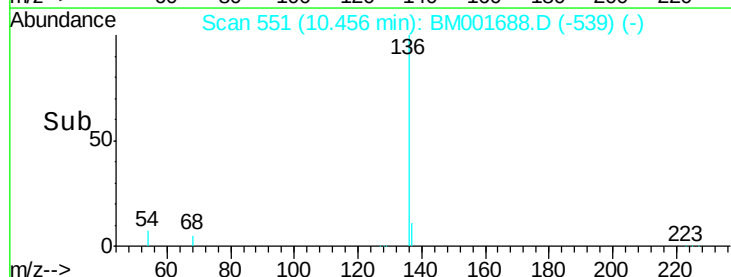
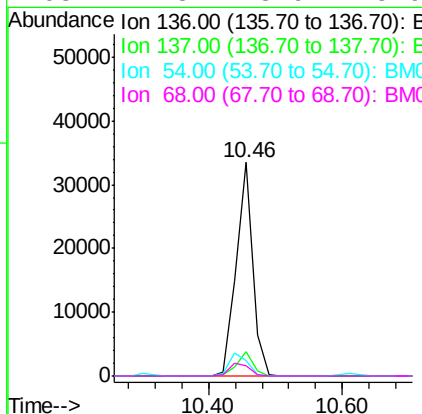
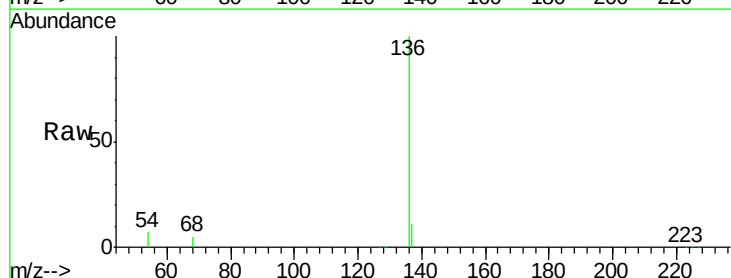
Ion Ratio Lower Upper

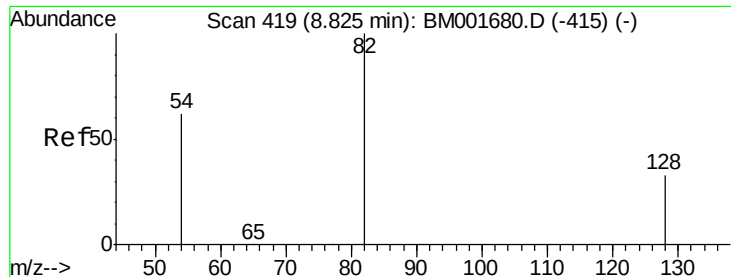
136 100

137 11.1 8.9 13.3

54 7.3 6.2 9.4

68 4.8 3.9 5.9





#7

Nitrobenzene-d5

Concen: 6.75 ng

RT: 8.83 min Scan# 419

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

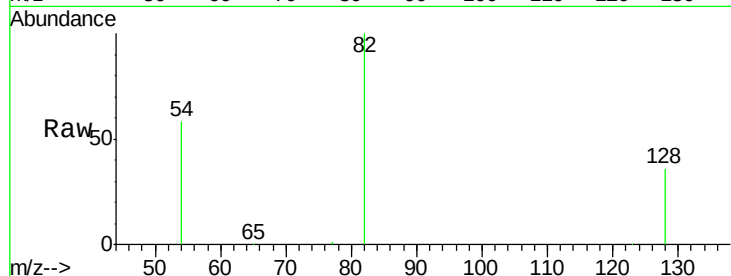
Tgt Ion: 82 Resp: 30392

Ion Ratio Lower Upper

82 100

128 36.2 27.6 41.4

54 57.6 50.1 75.1

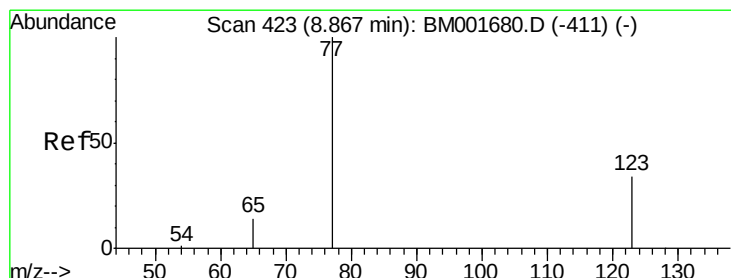
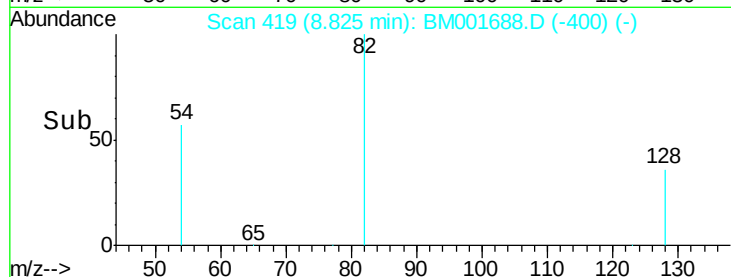


Abundance Ion 82.00 (81.70 to 82.70): BM001688.D (-415) (-)

Ion 128.00 (127.70 to 128.70): BM001688.D (-415) (-)

Ion 54.00 (53.70 to 54.70): BM001688.D (-415) (-)

Time-->



#8

Nitrobenzene

Concen: 7.06 ng

RT: 8.87 min Scan# 423

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

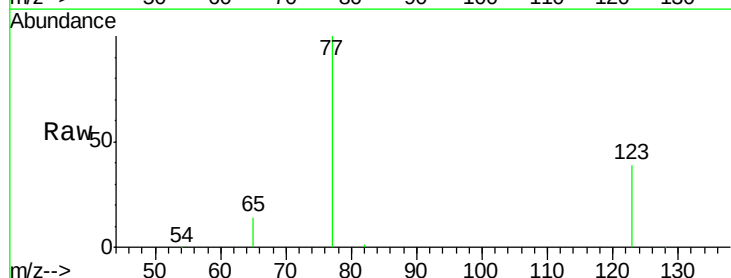
Tgt Ion: 77 Resp: 34350

Ion Ratio Lower Upper

77 100

123 39.6 30.6 46.0

65 14.5 11.5 17.3

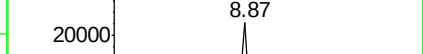
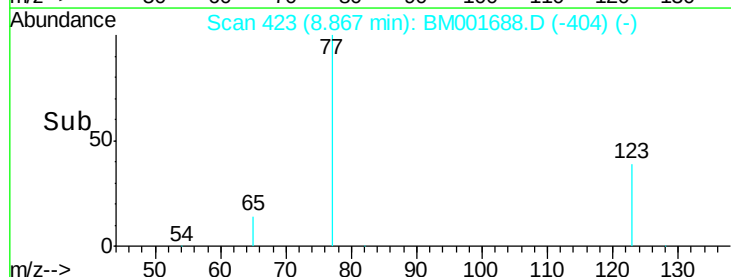


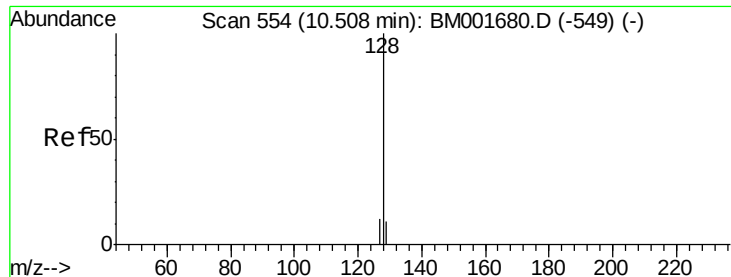
Abundance Ion 77.00 (76.70 to 77.70): BM001688.D (-411) (-)

Ion 123.00 (122.70 to 123.70): BM001688.D (-411) (-)

Ion 65.00 (64.70 to 65.70): BM001688.D (-411) (-)

Time-->





#9

Naphthalene

Concen: 6.39 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

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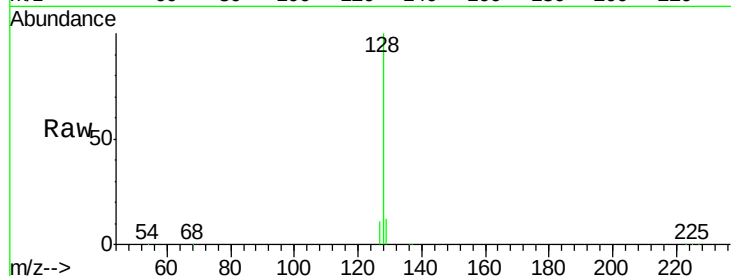
Tgt Ion:128 Resp: 88067

Ion Ratio Lower Upper

128 100

129 11.7 9.7 14.5

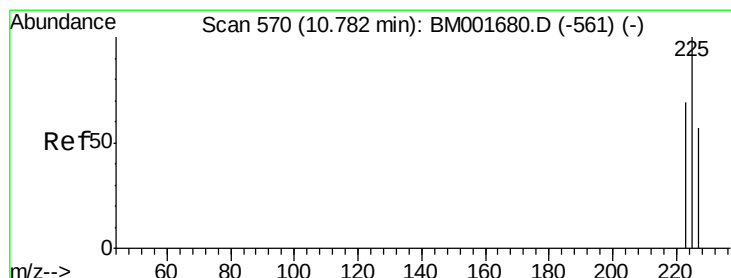
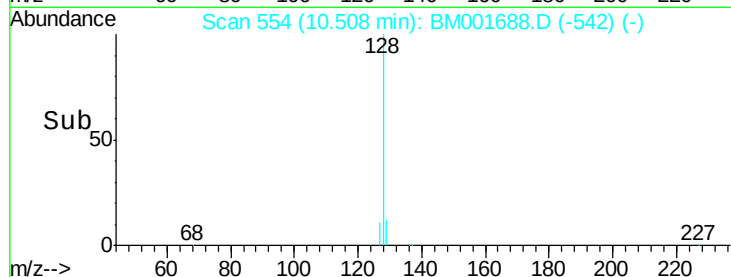
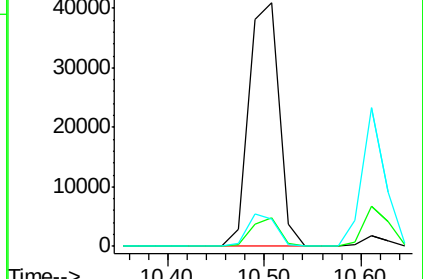
127 11.3 9.8 14.6



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



#10

Hexachlorobutadiene

Concen: 6.51 ng

RT: 10.78 min Scan# 570

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

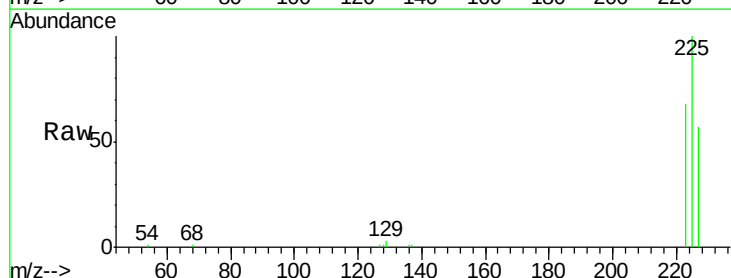
Tgt Ion:225 Resp: 15037

Ion Ratio Lower Upper

225 100

223 62.5 49.7 74.5

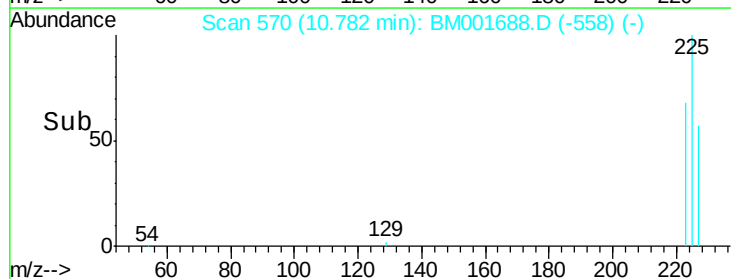
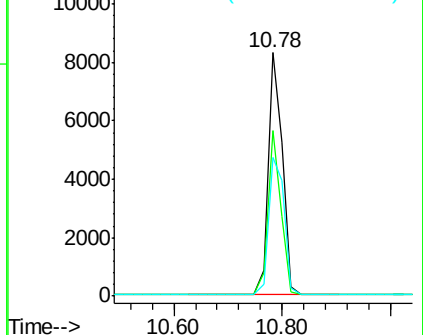
227 63.1 51.1 76.7

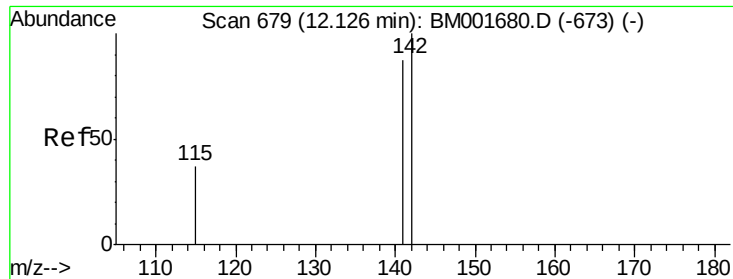


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

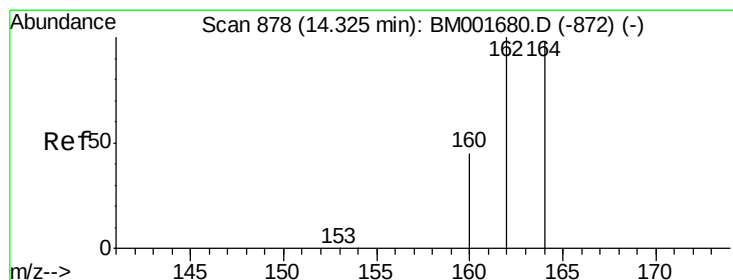
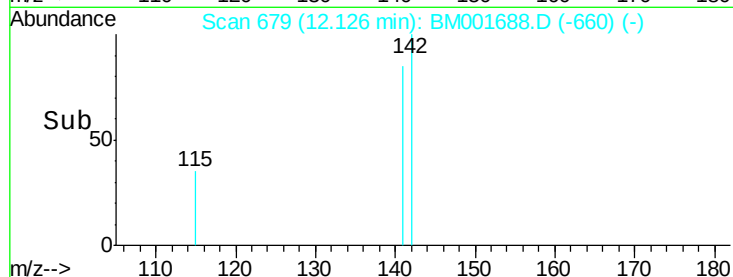
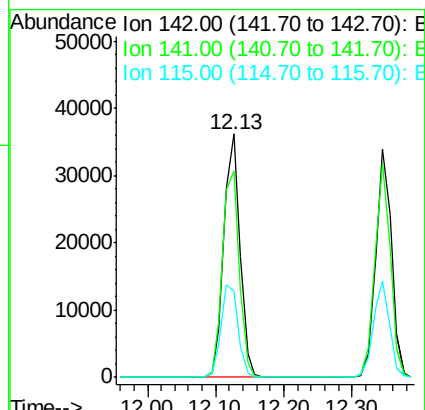
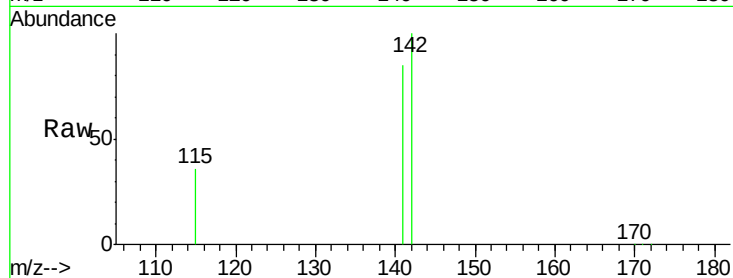




#11
2-Methylnaphthalene
Concen: 6.63 ng
RT: 12.13 min Scan# 679
Delta R.T. 0.00 min
Lab File: BM001688.D
Acq: 13 Jun 2015 02:23

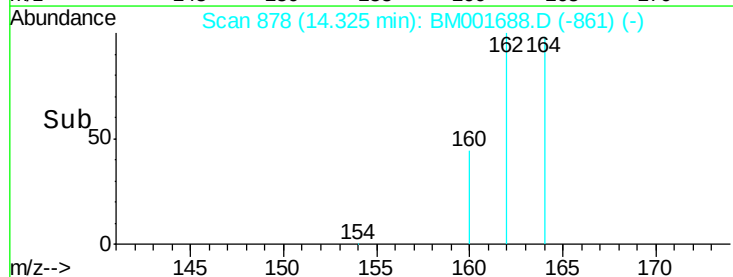
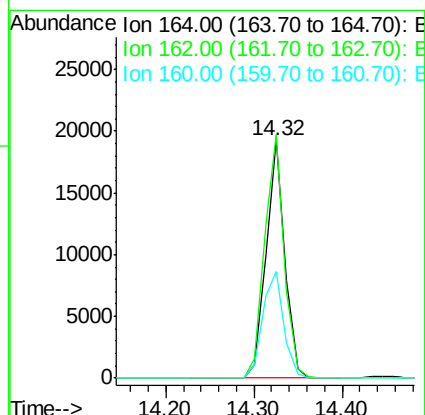
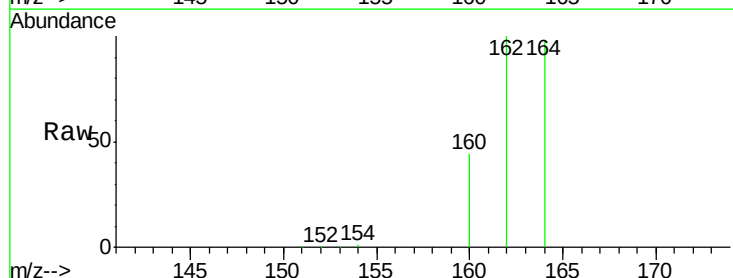
Instrument :
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PB83987BSD

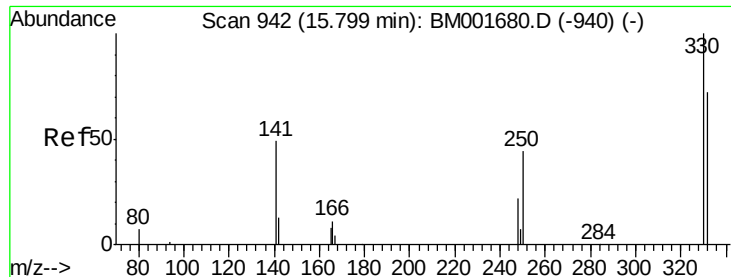
Tgt Ion:142 Resp: 58522
Ion Ratio Lower Upper
142 100
141 84.7 69.5 104.3
115 35.6 30.2 45.4



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.32 min Scan# 878
Delta R.T. 0.00 min
Lab File: BM001688.D
Acq: 13 Jun 2015 02:23

Tgt Ion:164 Resp: 28101
Ion Ratio Lower Upper
164 100
162 102.3 82.0 123.0
160 44.9 36.6 55.0

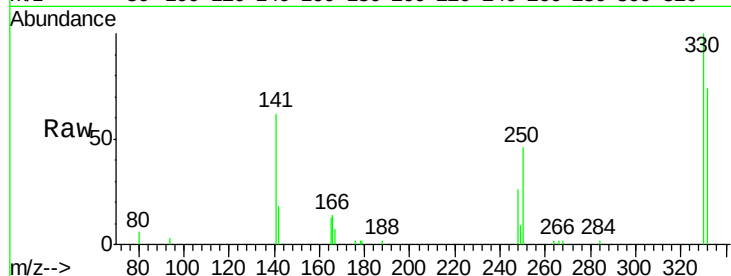




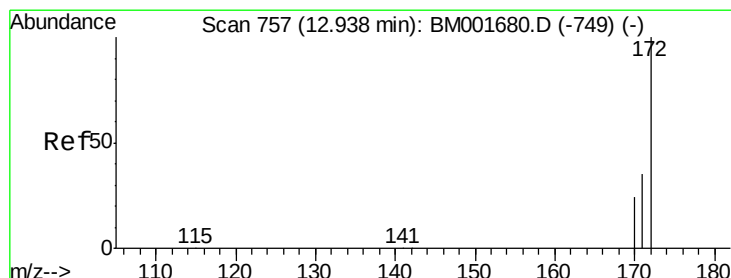
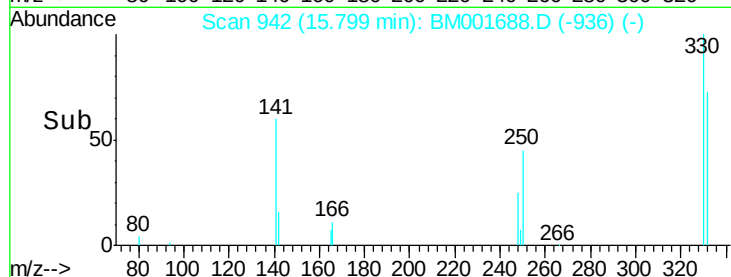
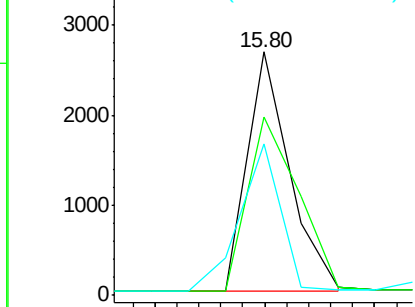
#13
 2,4,6-Tribromophenol
 Concen: 10.72 ng
 RT: 15.80 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BM001688.D
 Acq: 13 Jun 2015 02:23

Instrument :
 BNA_M
 ClientSampleId :
 PB83987BSD

Tgt Ion:330 Resp: 7041
 Ion Ratio Lower Upper
 330 100
 332 87.6 68.6 103.0
 141 59.1 39.0 58.4#

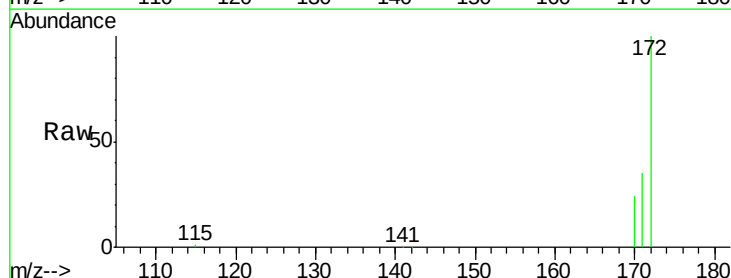


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

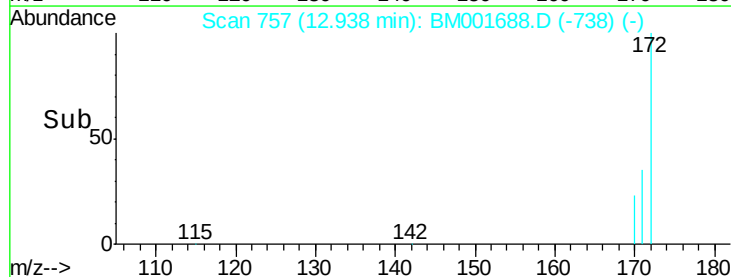
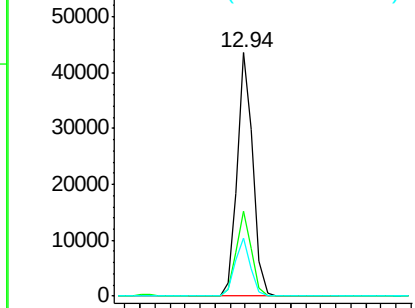


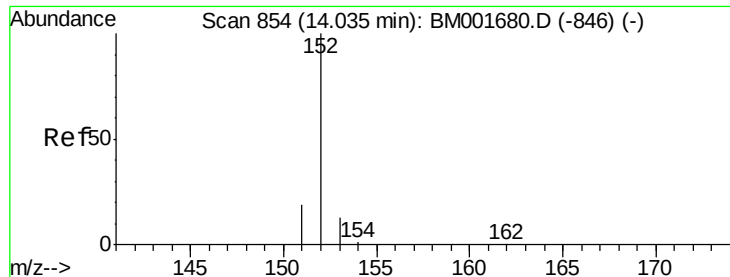
#14
 2-Fluorobiphenyl
 Concen: 6.33 ng
 RT: 12.94 min Scan# 757
 Delta R.T. 0.00 min
 Lab File: BM001688.D
 Acq: 13 Jun 2015 02:23

Tgt Ion:172 Resp: 63113
 Ion Ratio Lower Upper
 172 100
 171 34.9 28.4 42.6
 170 23.6 19.5 29.3



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#15

Acenaphthylene

Concen: 7.03 ng

RT: 14.03 min Scan# 854

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

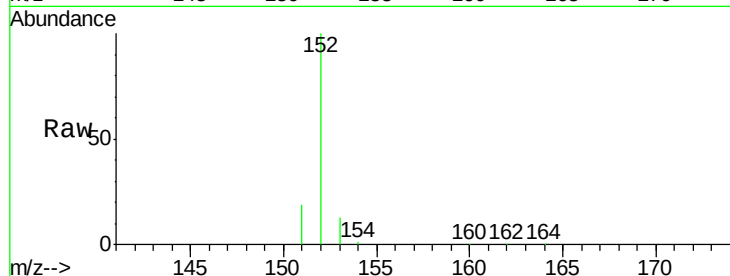
Tgt Ion:152 Resp: 94325

Ion Ratio Lower Upper

152 100

151 19.2 15.3 22.9

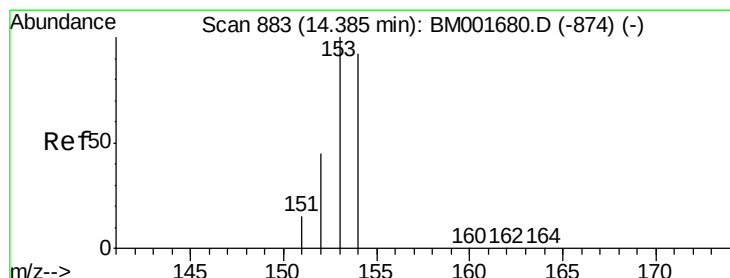
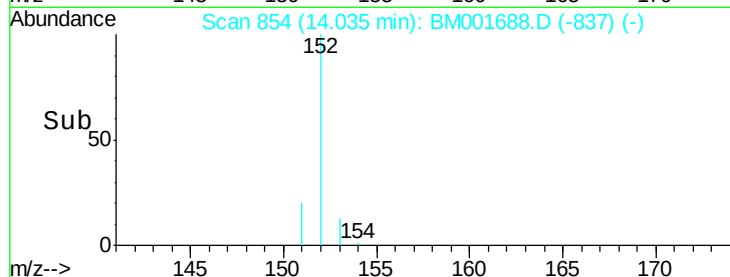
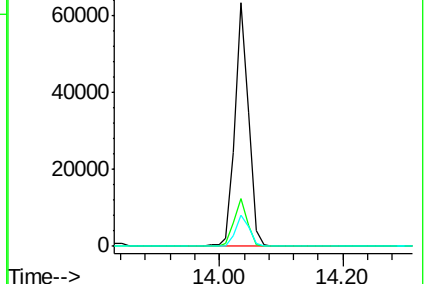
153 12.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#16

Acenaphthene

Concen: 6.64 ng

RT: 14.39 min Scan# 883

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

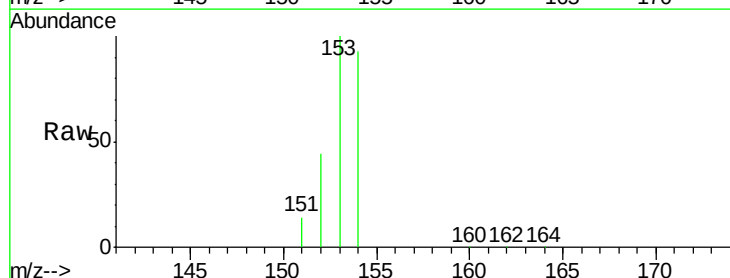
Tgt Ion:154 Resp: 54791

Ion Ratio Lower Upper

154 100

153 111.9 89.3 133.9

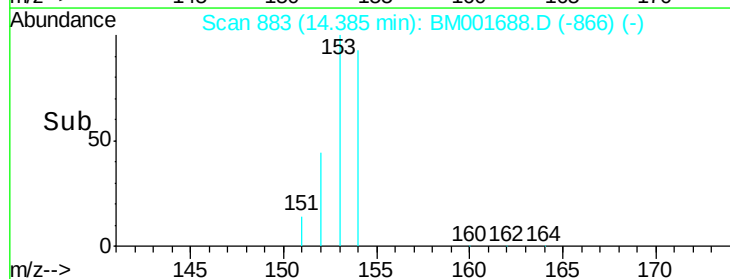
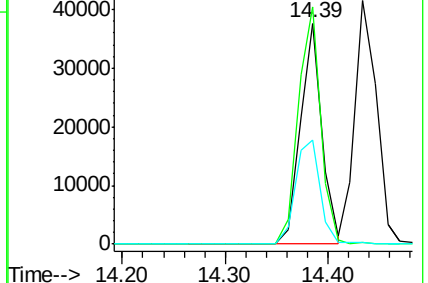
152 54.3 43.7 65.5

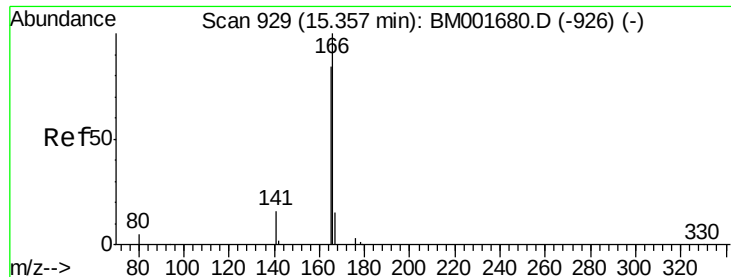


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

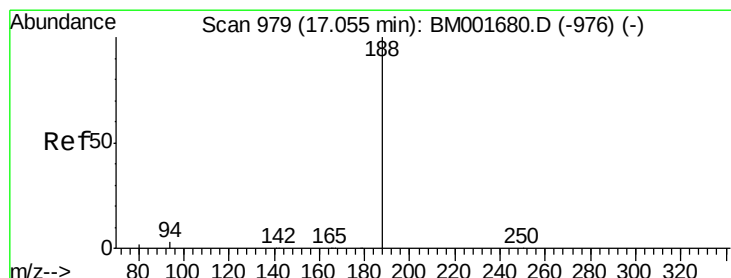
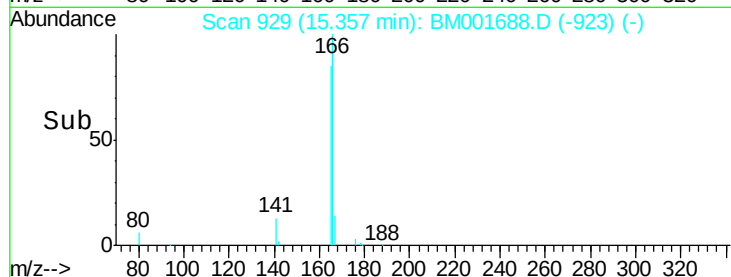
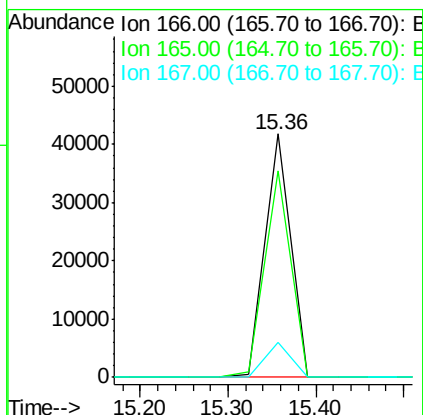
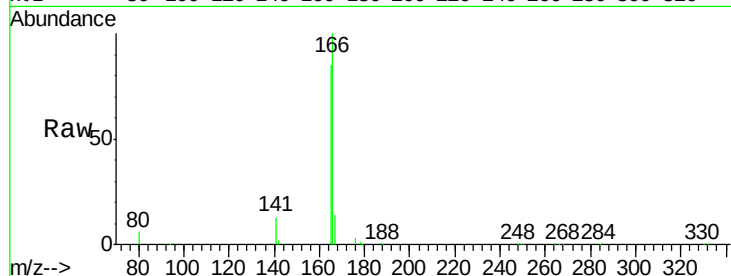




#17
Fluorene
 Concen: 7.07 ng
 RT: 15.36 min Scan# 929
 Delta R.T. 0.00 min
 Lab File: BM001688.D
 Acq: 13 Jun 2015 02:23

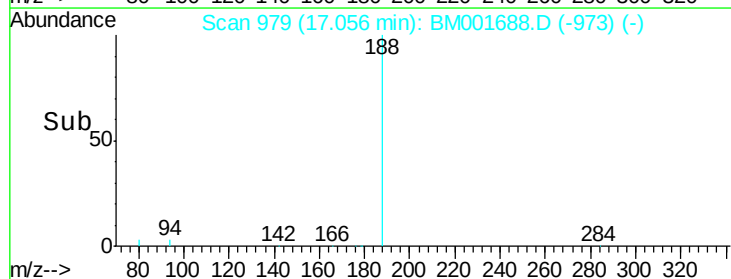
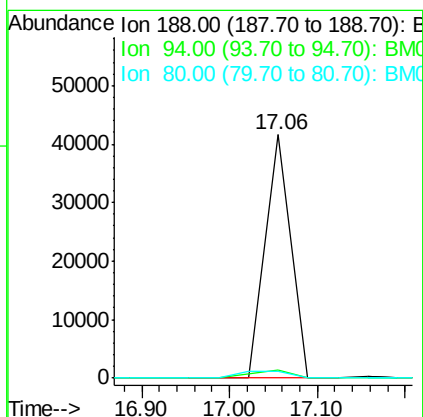
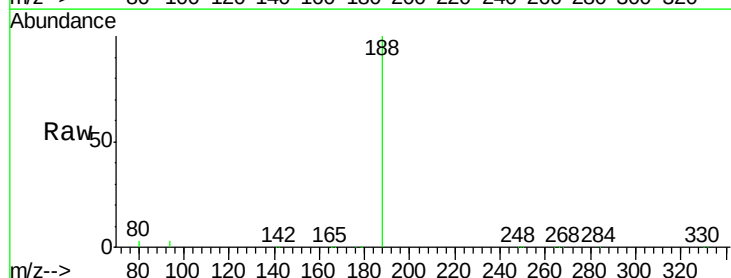
Instrument :
 BNA_M
 ClientSampleId :
 PB83987BSD

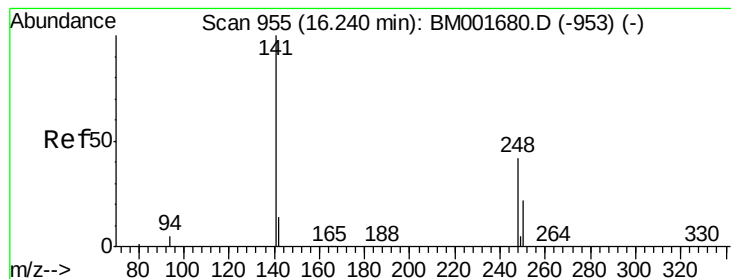
Tgt Ion:166 Resp: 86271
 Ion Ratio Lower Upper
 166 100
 165 85.6 68.5 102.7
 167 14.2 11.8 17.6



#18
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.06 min Scan# 979
 Delta R.T. 0.00 min
 Lab File: BM001688.D
 Acq: 13 Jun 2015 02:23

Tgt Ion:188 Resp: 85040
 Ion Ratio Lower Upper
 188 100
 94 3.1 2.2 3.2
 80 2.8 1.8 2.8#





#19

4-Bromophenyl-phenylether

Concen: 7.30 ng

RT: 16.24 min Scan# 955

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

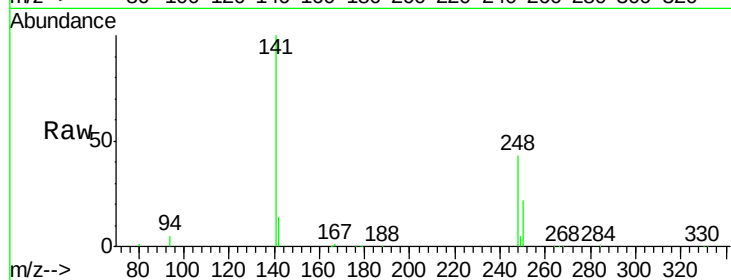
Tgt Ion:248 Resp: 11751

Ion Ratio Lower Upper

248 100

250 71.5 59.7 89.5

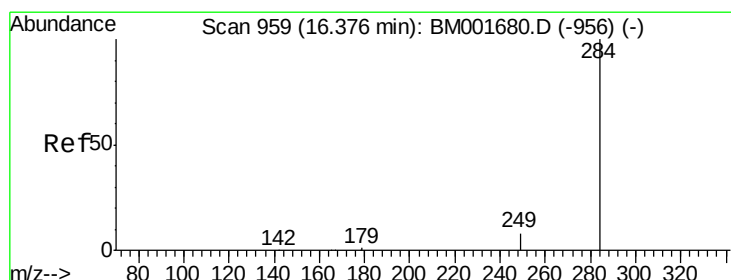
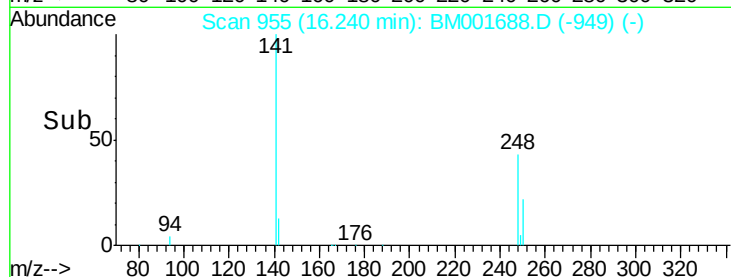
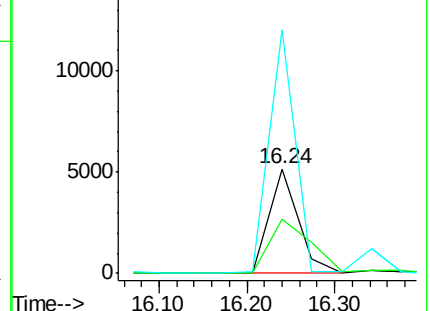
141 208.5 166.4 249.6



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



#20

Hexachlorobenzene

Concen: 6.90 ng

RT: 16.38 min Scan# 959

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

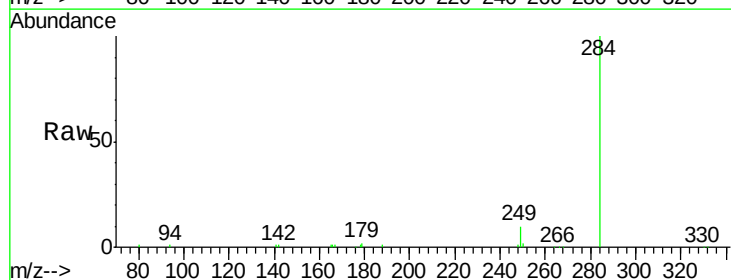
Tgt Ion:284 Resp: 21103

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

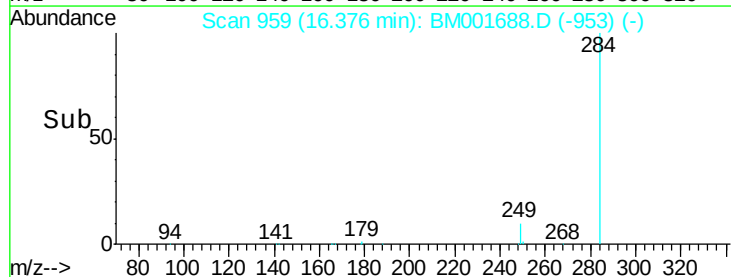
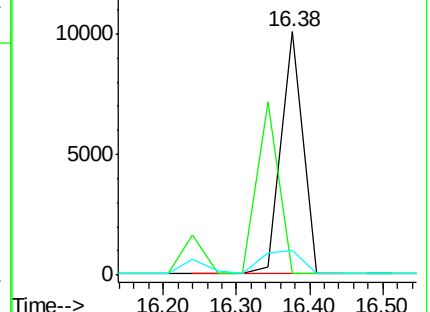
249 17.7 0.0 0.0#

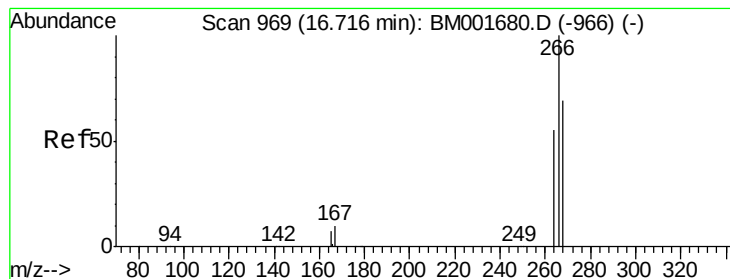


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#21

Pentachlorophenol

Concen: 100.10 ng

RT: 16.72 min Scan# 969

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

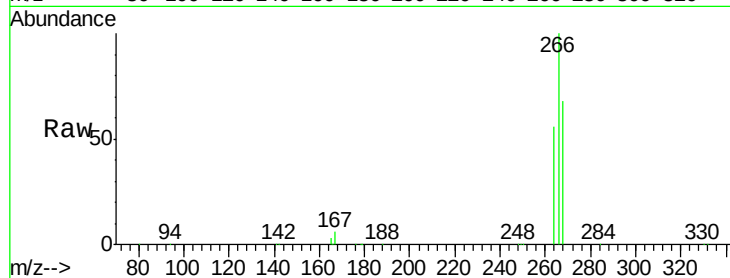
Tgt Ion:266 Resp: 202386

Ion Ratio Lower Upper

266 100

268 67.7 57.2 85.8

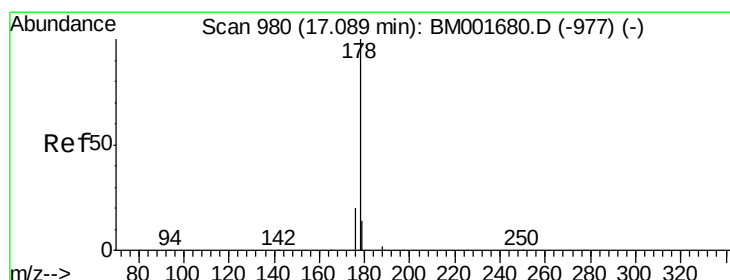
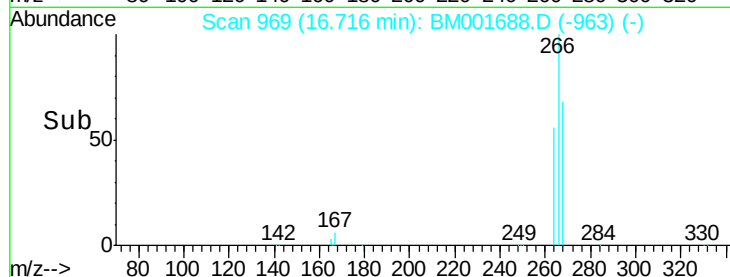
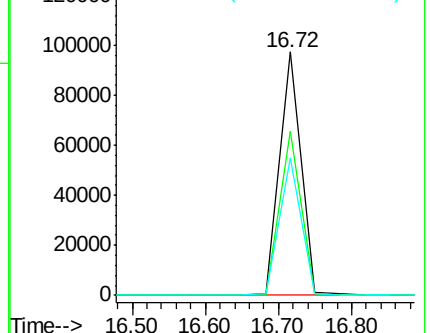
264 56.3 46.3 69.5



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



#22

Phenanthrene

Concen: 7.60 ng

RT: 17.09 min Scan# 980

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

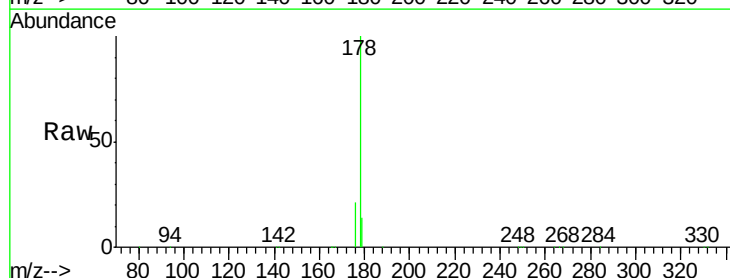
Tgt Ion:178 Resp: 144174

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

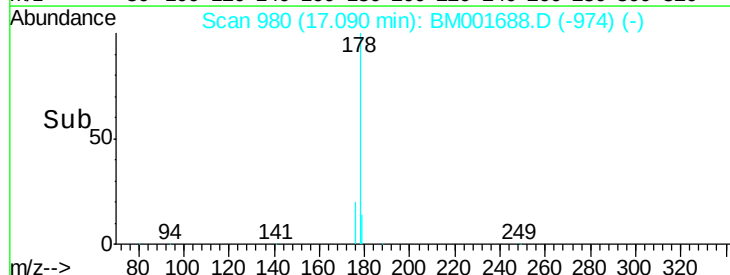
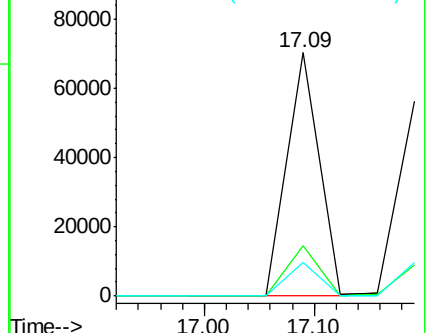
179 14.2 11.8 17.8

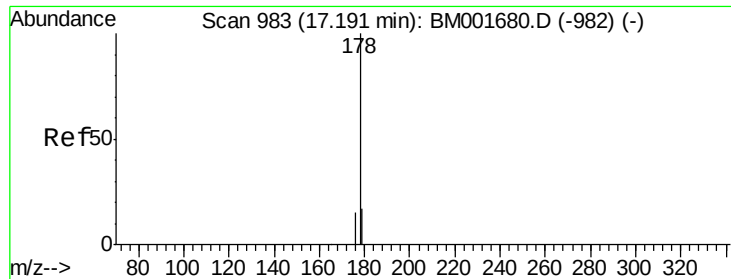


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Anthracene

Concen: 7.59 ng

RT: 17.19 min Scan# 983

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

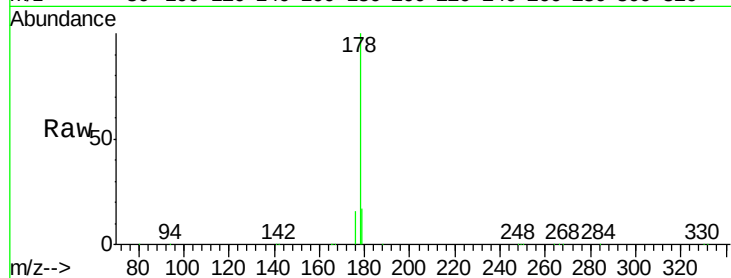
Tgt Ion:178 Resp: 115143

Ion Ratio Lower Upper

178 100

176 15.7 12.6 18.8

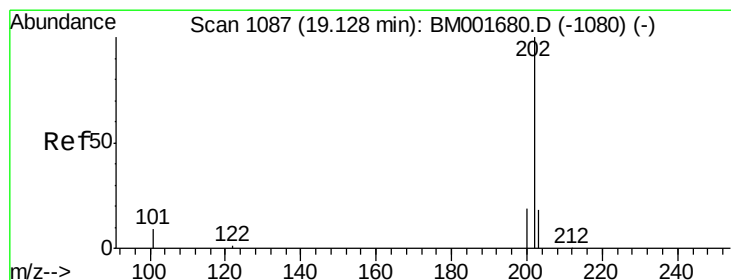
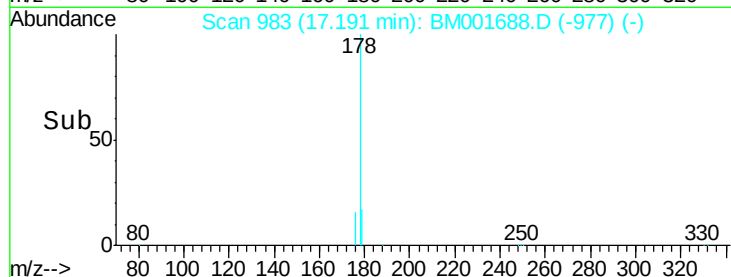
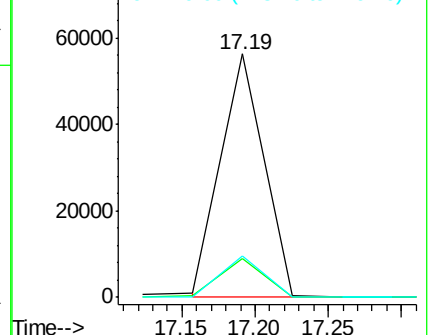
179 16.8 13.5 20.3



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

Fluoranthene

Concen: 7.39 ng

RT: 19.13 min Scan# 1087

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

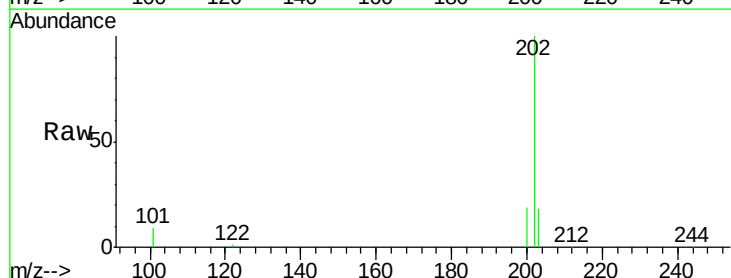
Tgt Ion:202 Resp: 114507

Ion Ratio Lower Upper

202 100

101 13.2 10.3 15.5

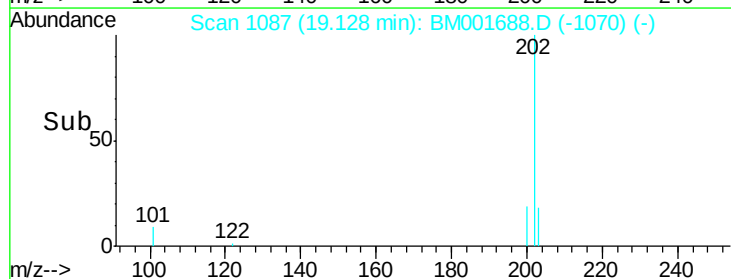
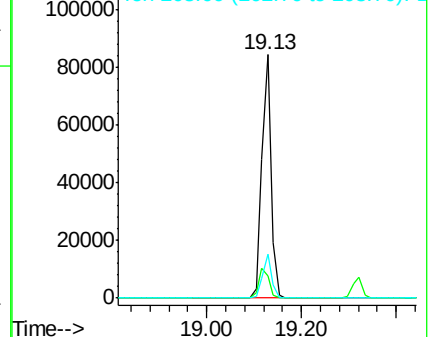
203 17.5 13.8 20.6

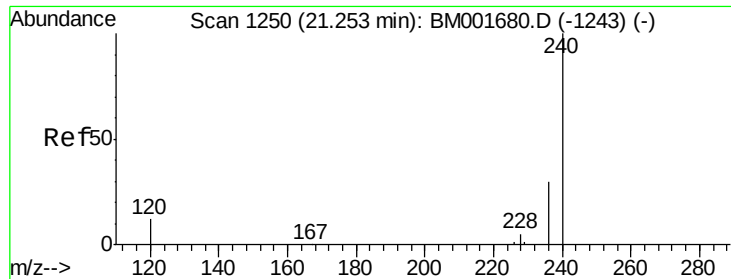


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.25 min Scan# 1250

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

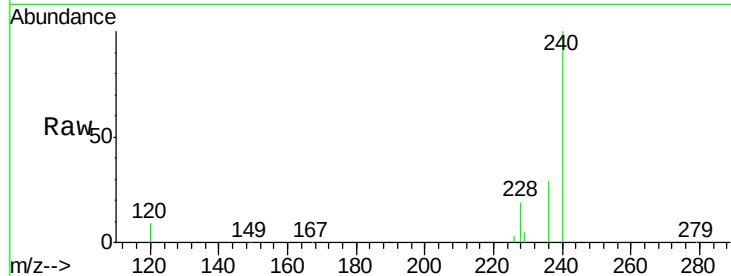
Tgt Ion:240 Resp: 48898

Ion Ratio Lower Upper

240 100

120 9.2 9.9 14.9#

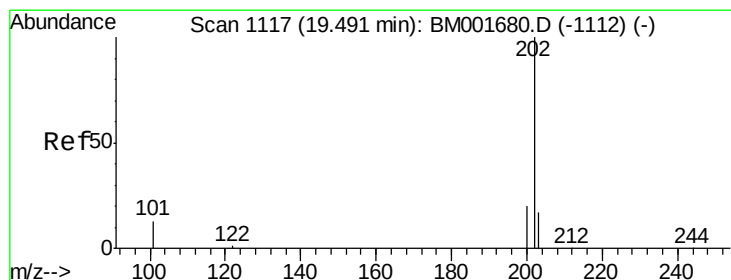
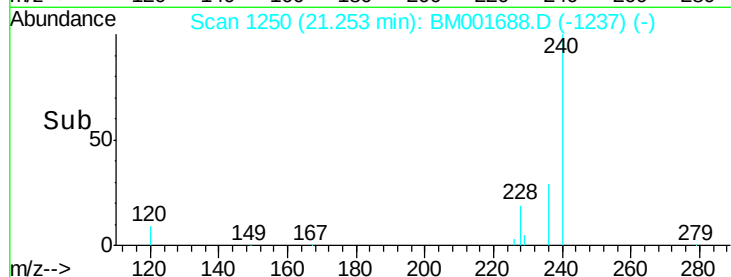
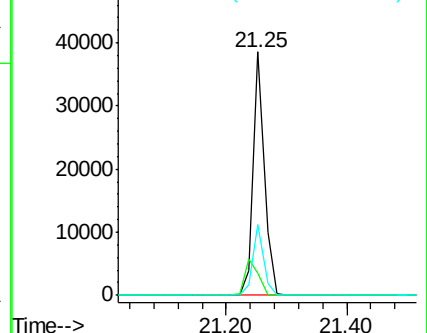
236 29.0 23.9 35.9



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



#26

Pyrene

Concen: 7.64 ng

RT: 19.49 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

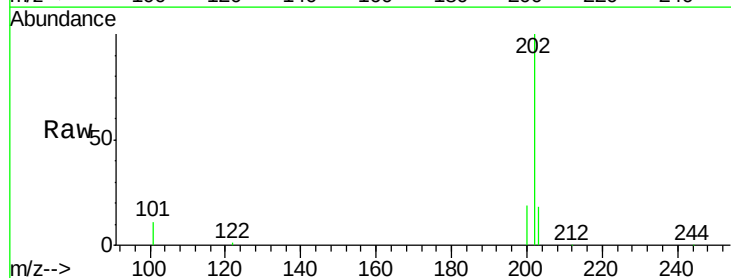
Tgt Ion:202 Resp: 126121

Ion Ratio Lower Upper

202 100

200 20.6 16.8 25.2

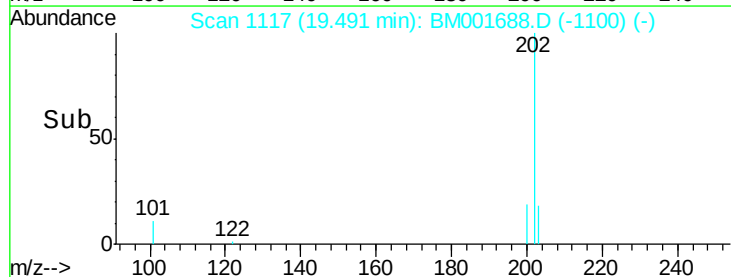
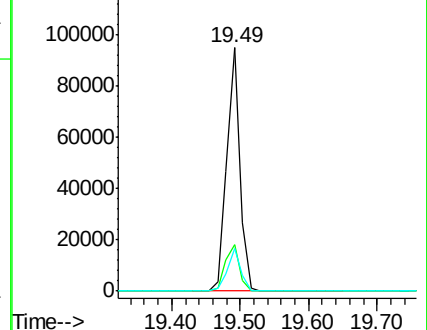
203 17.8 13.6 20.4

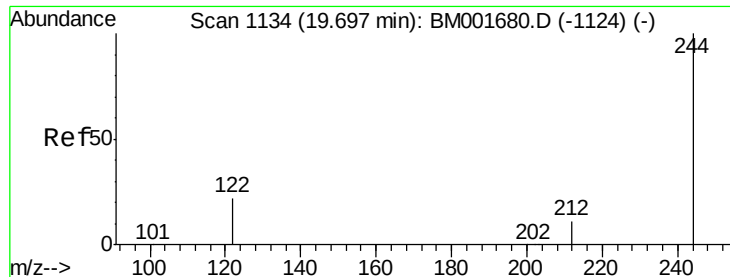


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Terphenyl-d14

Concen: 6.56 ng

RT: 19.70 min Scan# 1134

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

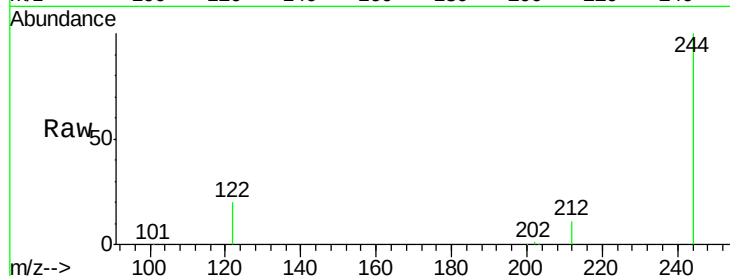
Tgt Ion:244 Resp: 47901

Ion Ratio Lower Upper

244 100

212 11.0 9.6 14.4

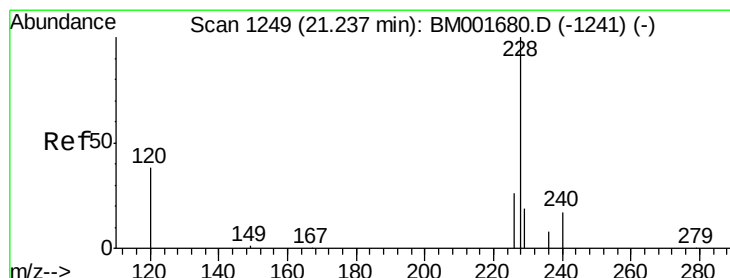
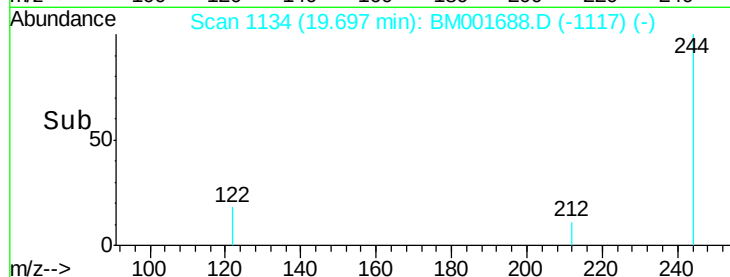
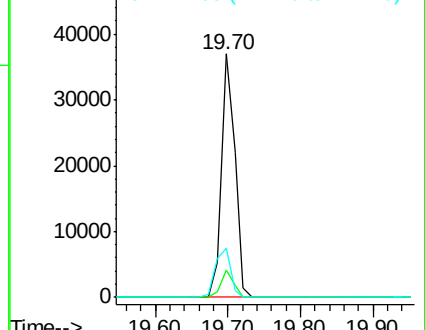
122 20.1 18.4 27.6



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



#28

Benzo(a)anthracene

Concen: 7.60 ng

RT: 21.24 min Scan# 1249

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

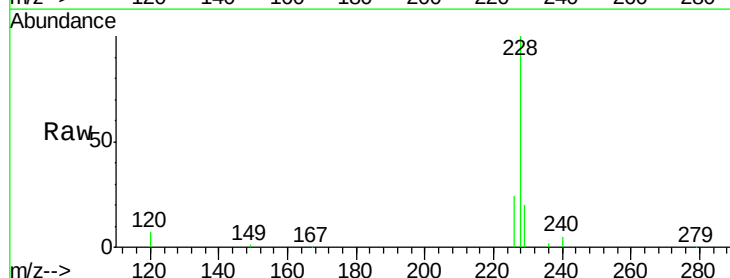
Tgt Ion:228 Resp: 117224

Ion Ratio Lower Upper

228 100

226 24.2 21.0 31.4

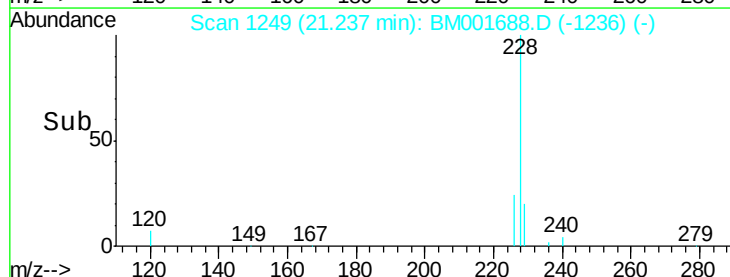
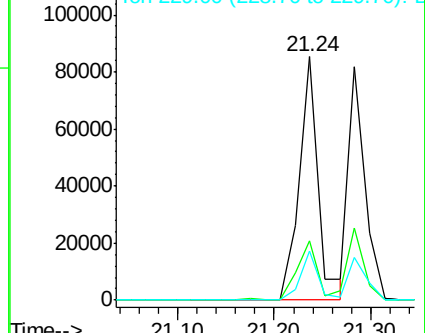
229 20.3 15.8 23.8

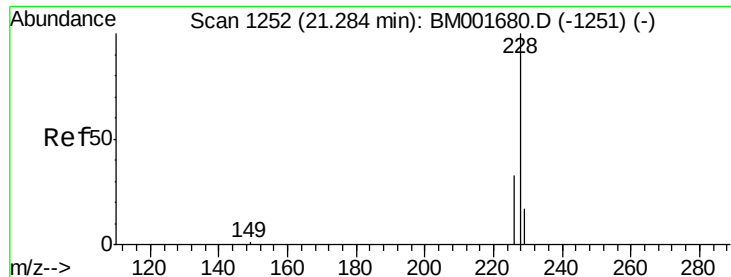


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#29

Chrysene

Concen: 6.85 ng

RT: 21.28 min Scan# 1252

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

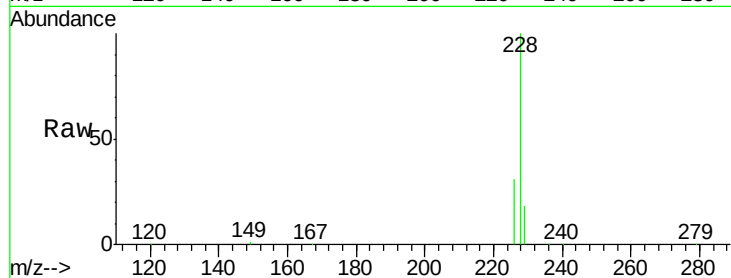
Tgt Ion:228 Resp: 98255

Ion Ratio Lower Upper

228 100

226 30.7 27.4 41.0

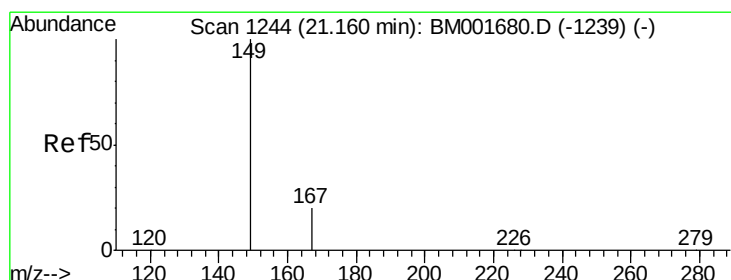
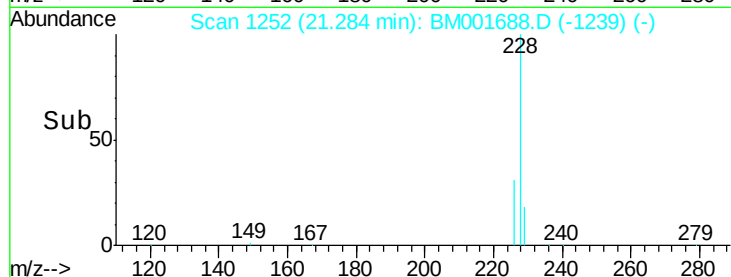
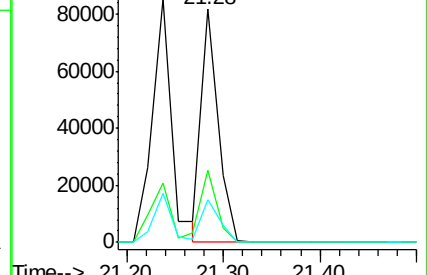
229 18.1 13.7 20.5



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 7.09 ng

RT: 21.16 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

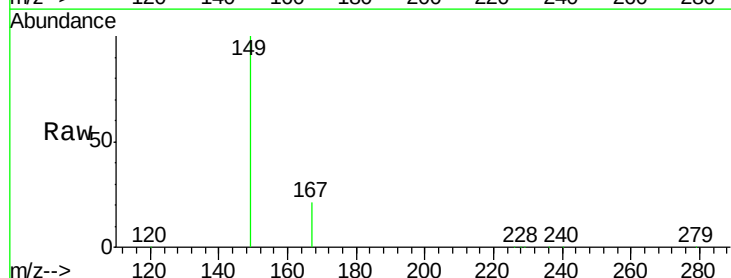
Tgt Ion:149 Resp: 74716

Ion Ratio Lower Upper

149 100

167 24.6 20.4 30.6

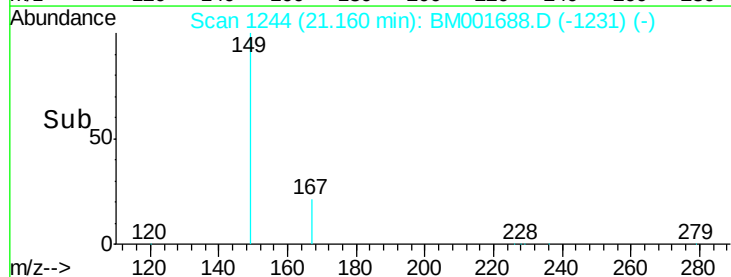
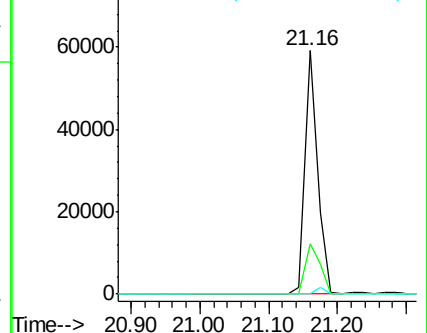
279 2.2 1.7 2.5

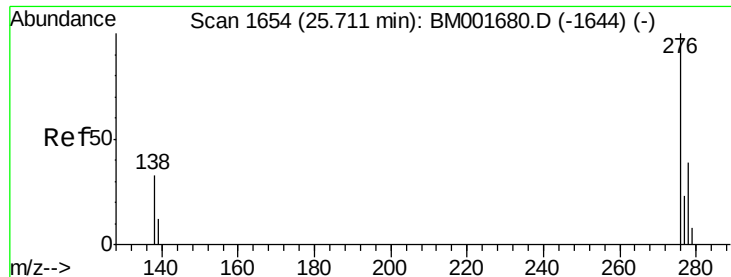


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 7.17 ng

RT: 25.71 min Scan# 1654

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

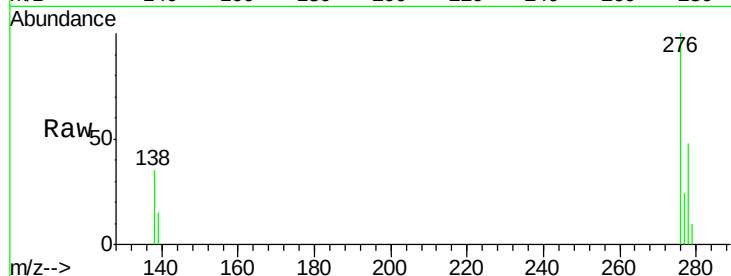
Tgt Ion:276 Resp: 108286

Ion Ratio Lower Upper

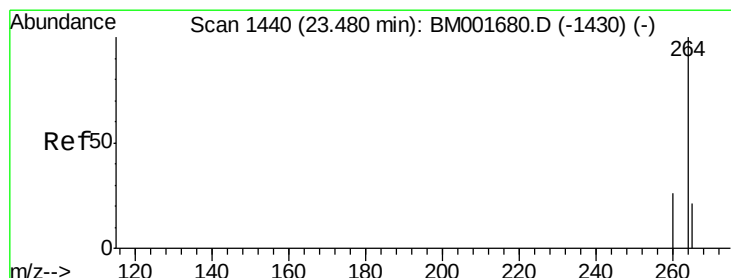
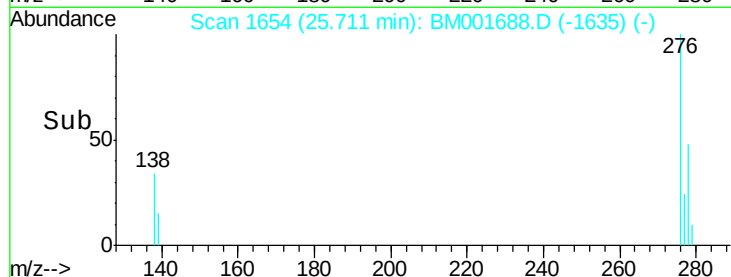
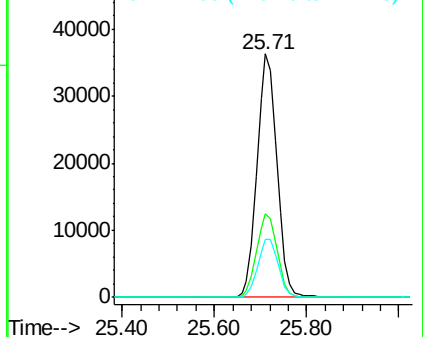
276 100

138 35.6 27.8 41.8

277 24.6 19.7 29.5



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



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.48 min Scan# 1440

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

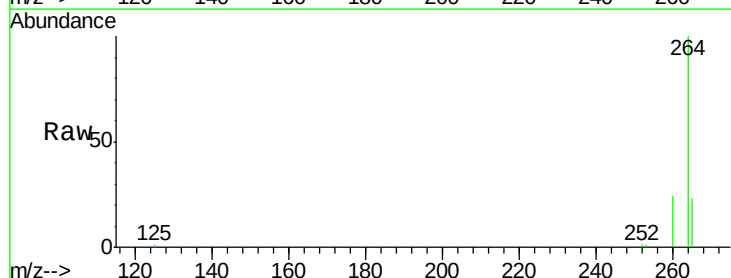
Tgt Ion:264 Resp: 43849

Ion Ratio Lower Upper

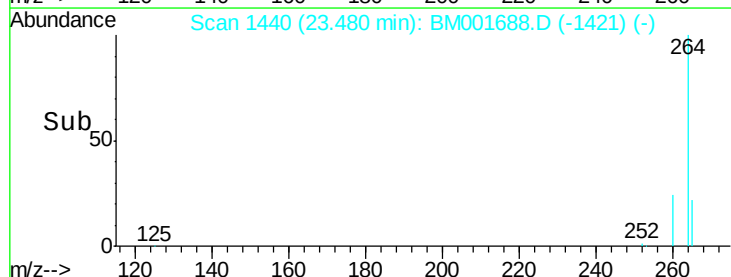
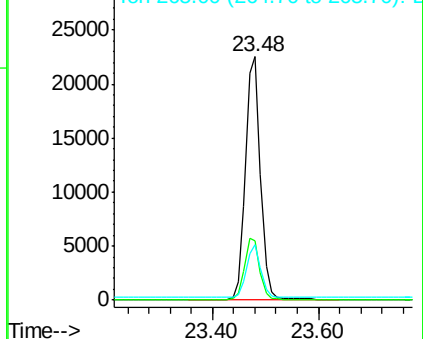
264 100

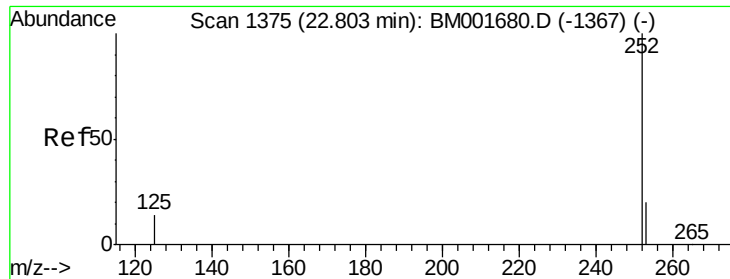
260 24.3 20.8 31.2

265 22.7 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 7.35 ng

RT: 22.80 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

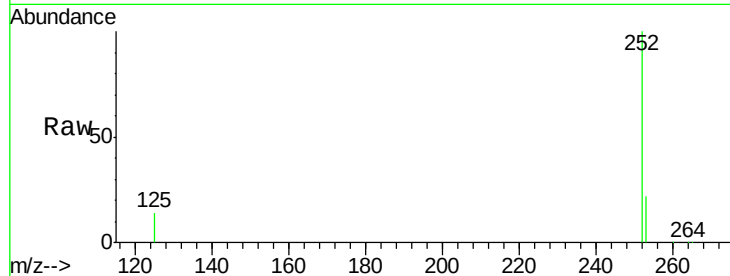
Tgt Ion:252 Resp: 101092

Ion Ratio Lower Upper

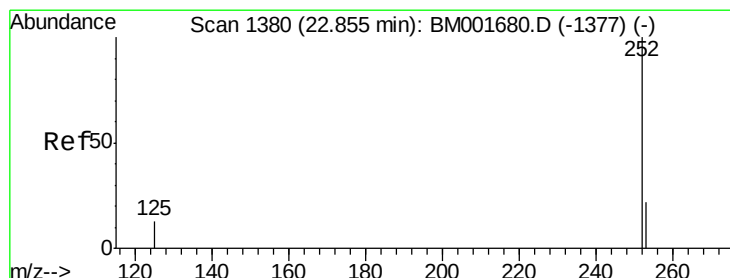
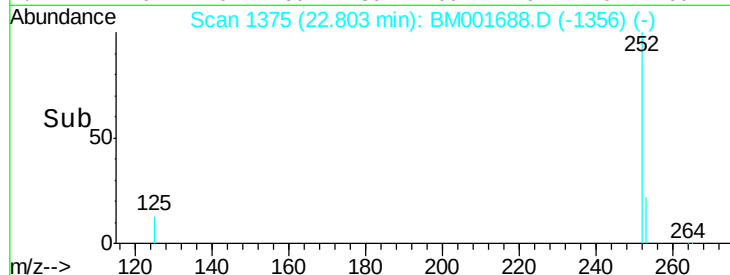
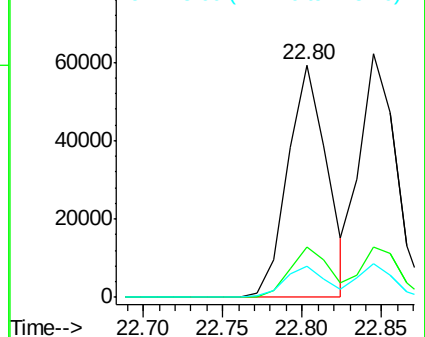
252 100

253 21.9 17.4 26.0

125 13.6 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



#34

Benzo(k)fluoranthene

Concen: 7.50 ng

RT: 22.84 min Scan# 1379

Delta R.T. -0.01 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

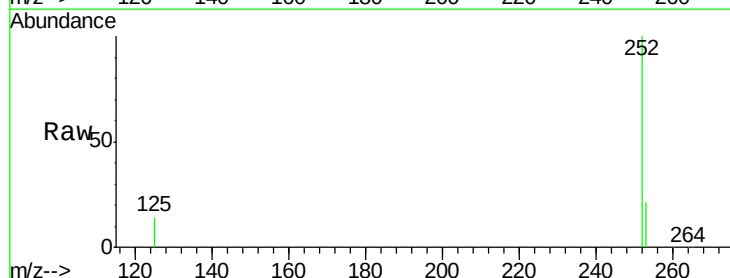
Tgt Ion:252 Resp: 97254

Ion Ratio Lower Upper

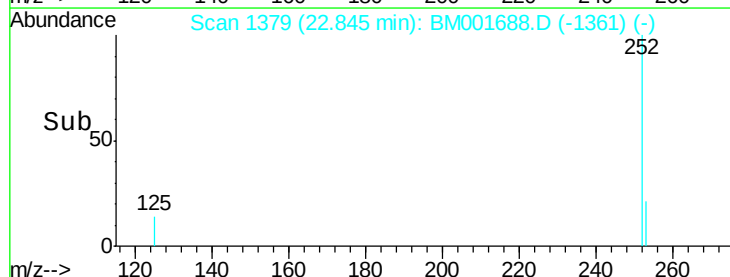
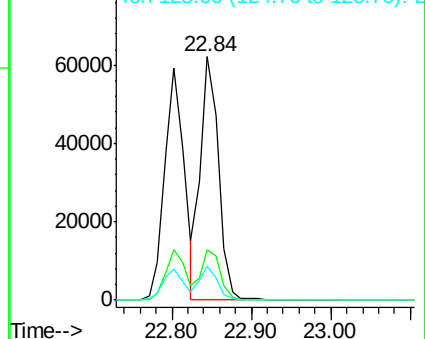
252 100

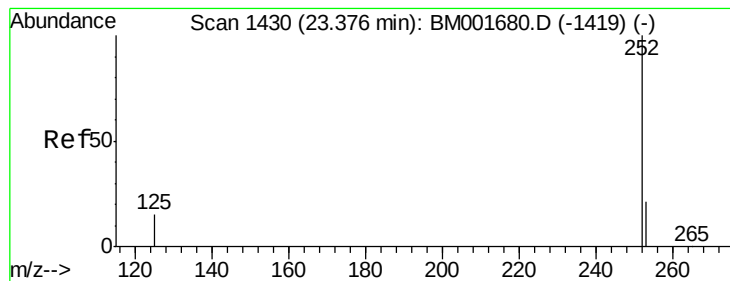
253 20.8 19.4 29.0

125 14.0 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#35

Benzo(a)pyrene

Concen: 7.78 ng

RT: 23.38 min Scan# 1430

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD

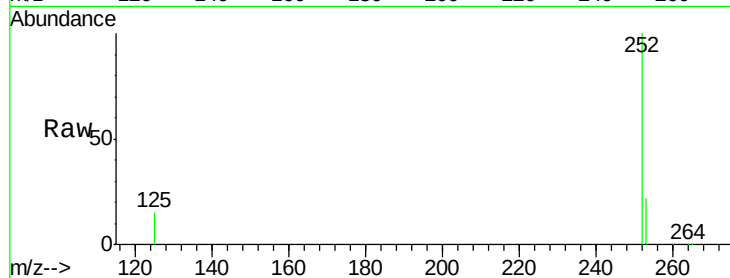
Tgt Ion:252 Resp: 93283

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

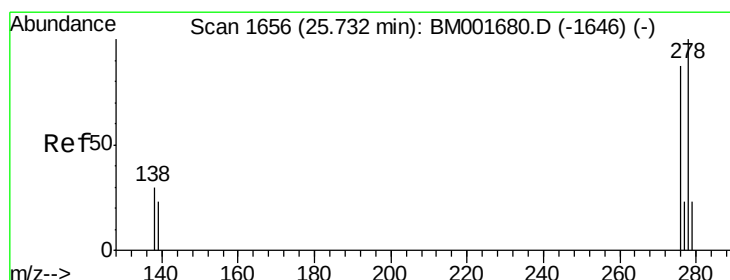
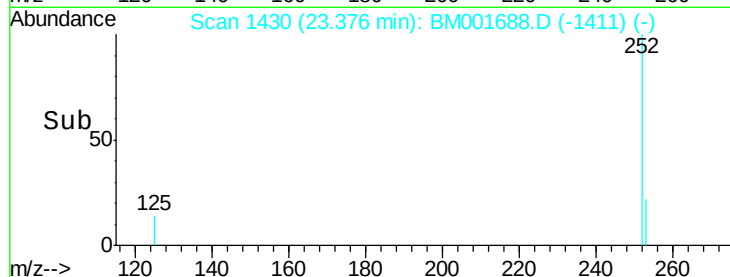
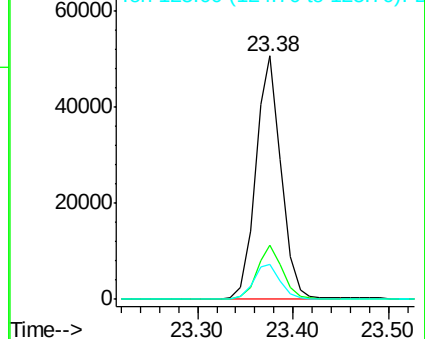
125 14.6 13.4 20.2



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



#36

Dibenzo(a,h)anthracene

Concen: 7.38 ng

RT: 25.73 min Scan# 1656

Delta R.T. 0.00 min

Lab File: BM001688.D

Acq: 13 Jun 2015 02:23

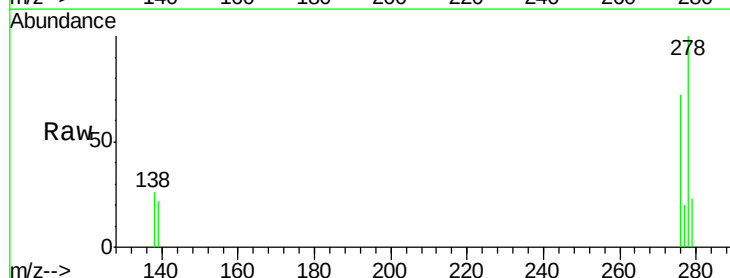
Tgt Ion:278 Resp: 87715

Ion Ratio Lower Upper

278 100

139 22.2 19.4 29.0

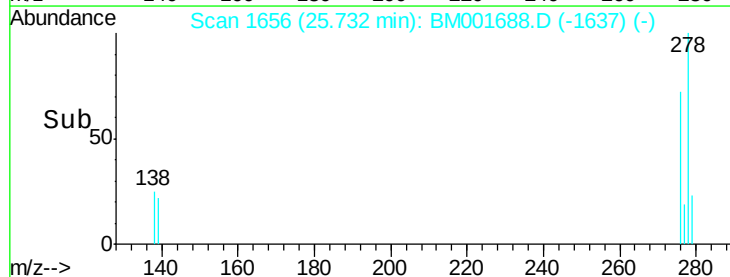
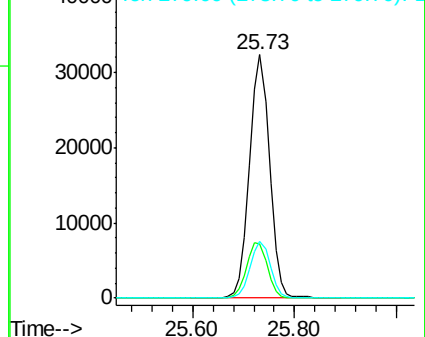
279 23.4 19.4 29.2

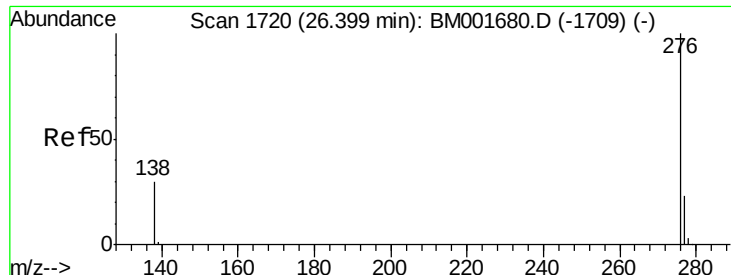


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#37

Benzo(g,h,i)perylene

Concen: 7.24 ng

RT: 26.40 min Scan# 1720

Delta R.T. 0.00 min

Lab File: BM001688.D

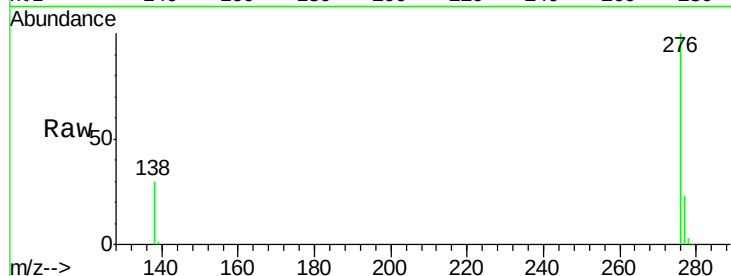
Acq: 13 Jun 2015 02:23

Instrument :

BNA_M

ClientSampleId :

PB83987BSD



Tgt Ion: 276 Resp: 90393

Ion Ratio Lower Upper

276 100

277 23.1 19.0 28.4

138 30.2 25.0 37.6

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

