

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM012716\  
 Data File : BM004132.D  
 Acq On : 27 Jan 2016 13:49  
 Operator : SJ/IZ  
 Sample : PB87989BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BS

Quant Time: Jan 27 23:58:10 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM012216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 22 14:46:41 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 23160    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.44 | 136  | 101962   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.31 | 164  | 60963    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.06 | 188  | 158815   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.27 | 240  | 163130   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.51 | 264  | 157444   | 5.00 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.25  | 112 | 26350 | 5.45 | ng | -0.02 |
| 5) Phenol-d6                | 6.83  | 99  | 35845 | 6.15 | ng | -0.02 |
| 8) Nitrobenzene-d5          | 8.82  | 82  | 16011 | 3.58 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.82 | 330 | 15291 | 6.45 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.93 | 172 | 65377 | 3.50 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.71 | 244 | 86756 | 4.18 | ng | 0.00  |

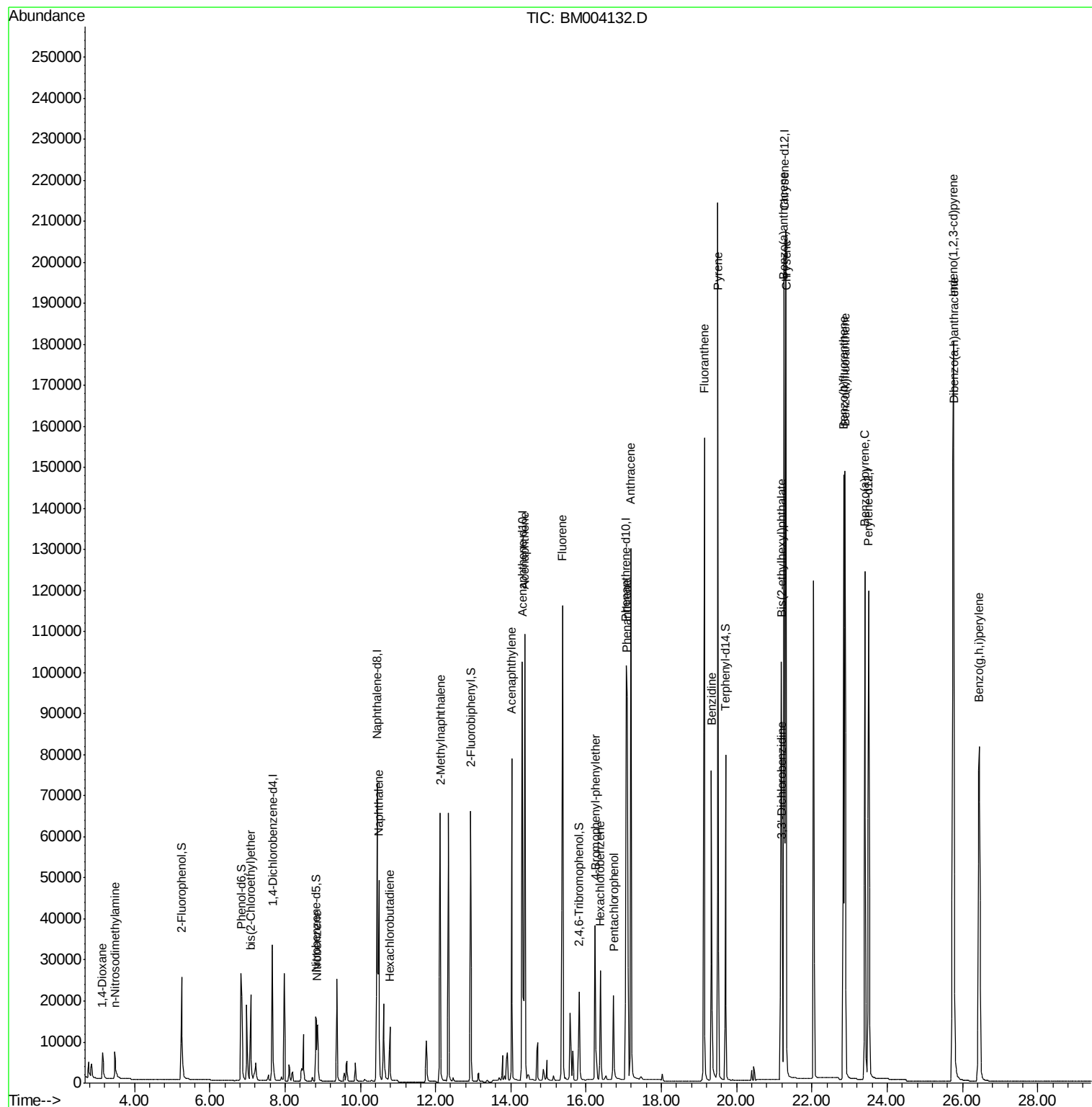
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.15  | 88  | 5977   | 2.83   | ng | 97   |
| 3) n-Nitrosodimethylamine      | 3.48  | 42  | 6470   | 3.13   | ng | 93   |
| 6) bis(2-Chloroethyl)ether     | 7.09  | 93  | 16695  | 3.09   | ng | 99   |
| 9) Nitrobenzene                | 8.86  | 77  | 17387  | 2.83   | ng | 99   |
| 10) Naphthalene                | 10.49 | 128 | 70888  | 2.98   | ng | 97   |
| 11) Hexachlorobutadiene        | 10.78 | 225 | 10151  | 2.77   | ng | 99   |
| 12) 2-Methylnaphthalene        | 12.12 | 142 | 53571  | 3.45   | ng | 95   |
| 16) Acenaphthylene             | 14.02 | 152 | 100581 | 3.82   | ng | 100  |
| 17) Acenaphthene               | 14.37 | 154 | 62888  | 3.16   | ng | 98   |
| 18) Fluorene                   | 15.37 | 166 | 84721  | 3.50   | ng | 98   |
| 20) 4-Bromophenyl-phenylether  | 16.24 | 248 | 21674  | 4.19   | ng | # 72 |
| 21) Hexachlorobenzene          | 16.37 | 284 | 22456  | 4.13   | ng | # 68 |
| 22) Pentachlorophenol          | 16.73 | 266 | 17418  | 7.50   | ng | 90   |
| 23) Phenanthrene               | 17.09 | 178 | 135029 | 4.39   | ng | 97   |
| 24) Anthracene                 | 17.19 | 178 | 161453 | 4.45   | ng | 99   |
| 25) Fluoranthene               | 19.14 | 202 | 177439 | 4.12   | ng | 100  |
| 27) Benzidine                  | 19.33 | 184 | 113476 | 7.57   | ng | 97   |
| 28) Pyrene                     | 19.50 | 202 | 198366 | 4.40   | ng | 100  |
| 30) Benzo(a)anthracene         | 21.25 | 228 | 206951 | 4.34   | ng | # 83 |
| 31) 3,3'-Dichlorobenzidine     | 21.21 | 252 | 52747  | 4.21   | ng | # 87 |
| 32) Chrysene                   | 21.31 | 228 | 177451 | 4.32   | ng | 93   |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149 | 90594  | 4.21   | ng | 91   |
| 34) Indeno(1,2,3-cd)pyrene     | 25.76 | 276 | 189585 | 3.87   | ng | 100  |
| 36) Benzo(b)fluoranthene       | 22.84 | 252 | 201562 | 4.13   | ng | 99   |
| 37) Benzo(k)fluoranthene       | 22.88 | 252 | 174128 | 3.94   | ng | 98   |
| 38) Benzo(a)pyrene             | 23.41 | 252 | 178798 | 4.16   | ng | 98   |
| 39) Dibenzo(a,h)anthracene     | 25.77 | 278 | 149600 | 3.87   | ng | 98   |
| 40) Benzo(g,h,i)perylene       | 26.45 | 276 | 162056 | 3.84   | ng | 99   |

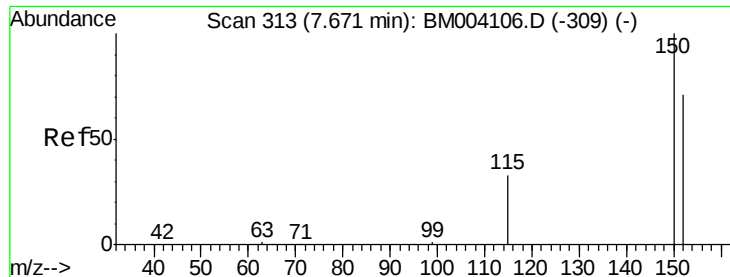
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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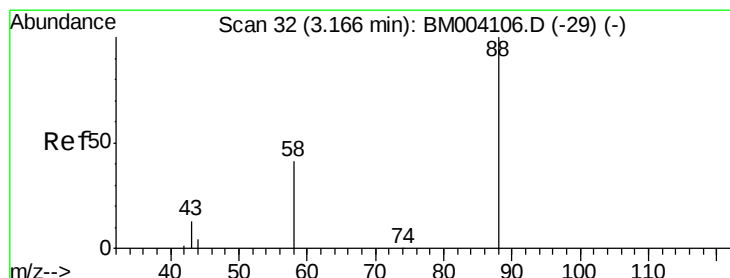
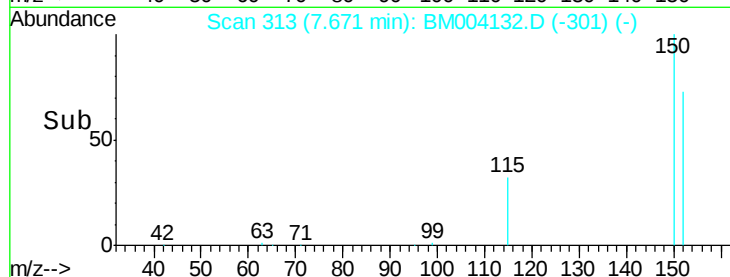
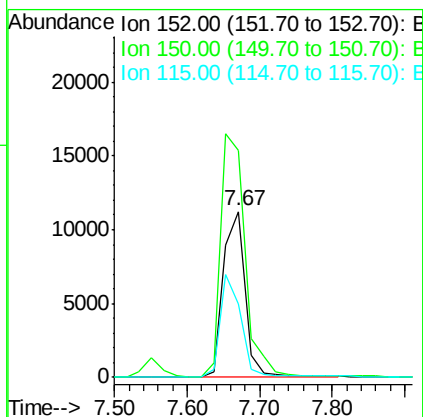
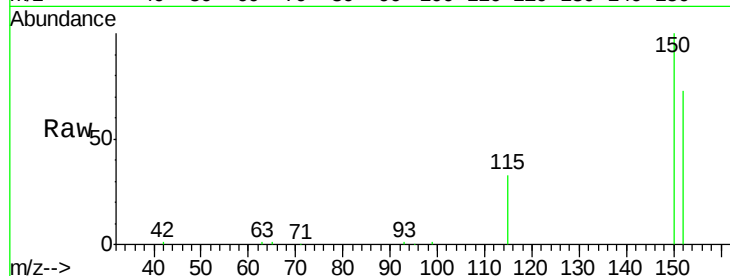


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.67 min Scan# 313  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

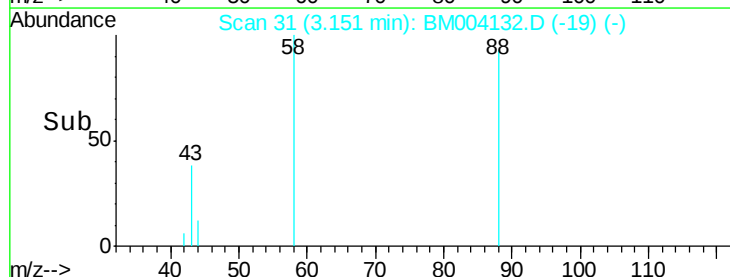
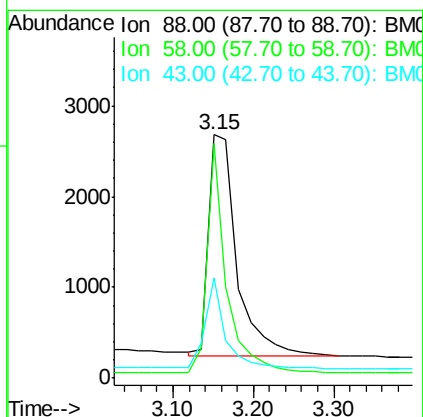
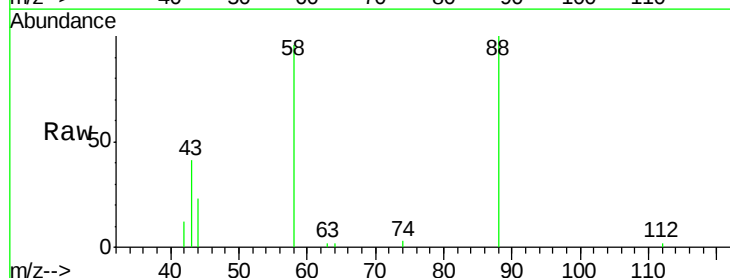
Tgt Ion: 152 Resp: 23160  
Ion Ratio Lower Upper  
152 100  
150 136.5 122.9 184.3  
115 44.4 44.4 66.6

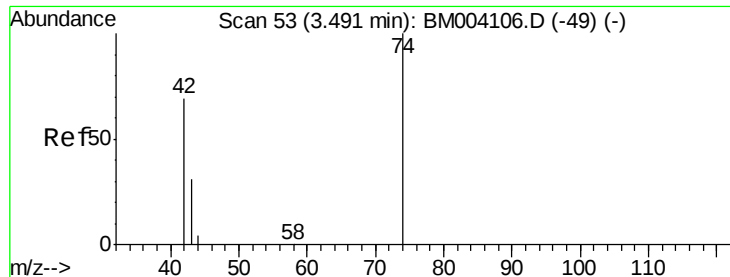


#2

1,4-Dioxane  
Concen: 2.83 ng  
RT: 3.15 min Scan# 31  
Delta R.T. -0.02 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion: 88 Resp: 5977  
Ion Ratio Lower Upper  
88 100  
58 70.5 53.8 80.6  
43 28.9 23.8 35.6





#3

n-Nitrosodimethylamine

Concen: 3.13 ng

RT: 3.48 min Scan# 52

Delta R.T. -0.02 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

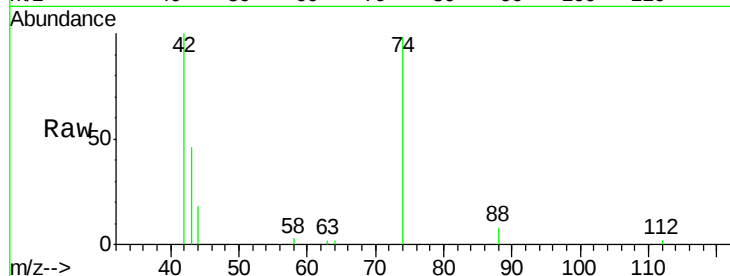
Tgt Ion: 42 Resp: 6470

Ion Ratio Lower Upper

42 100

74 126.6 95.0 142.4

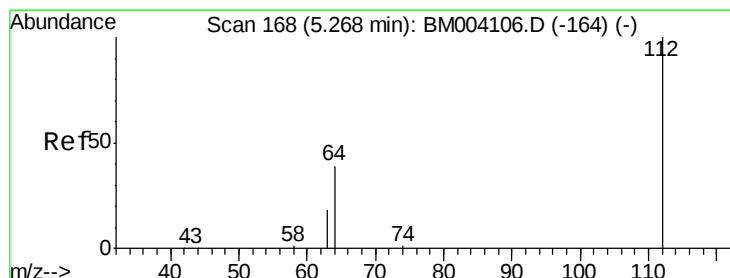
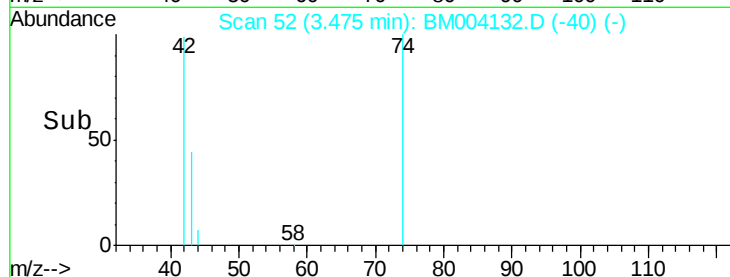
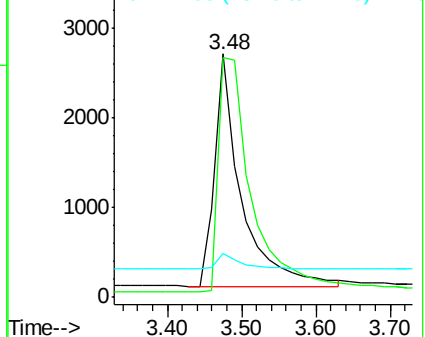
44 6.7 5.1 7.7



Abundance Ion 42.00 (41.70 to 42.70): BM004106.D (-49) (-)

Ion 74.00 (73.70 to 74.70): BM004106.D (-49) (-)

Ion 44.00 (43.70 to 44.70): BM004106.D (-49) (-)



#4

2-Fluorophenol

Concen: 5.45 ng

RT: 5.25 min Scan# 167

Delta R.T. -0.02 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

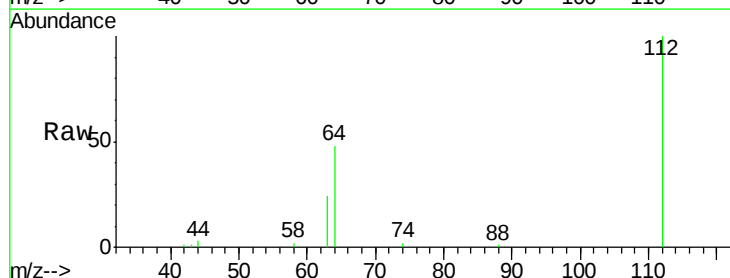
Tgt Ion: 112 Resp: 26350

Ion Ratio Lower Upper

112 100

64 51.9 41.8 62.8

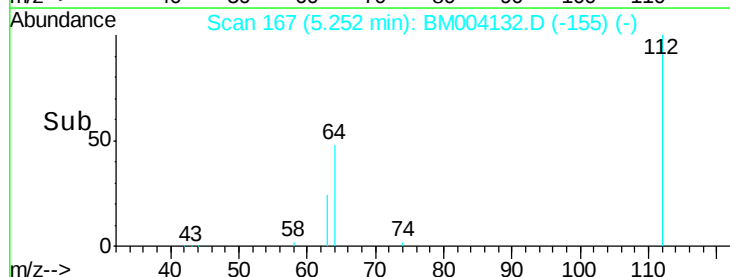
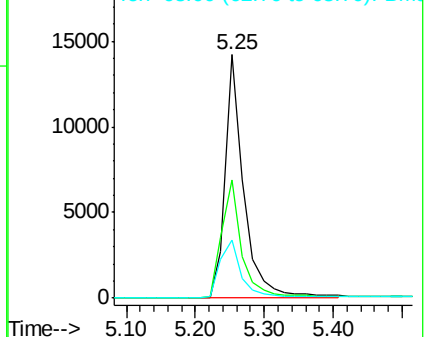
63 27.1 22.1 33.1

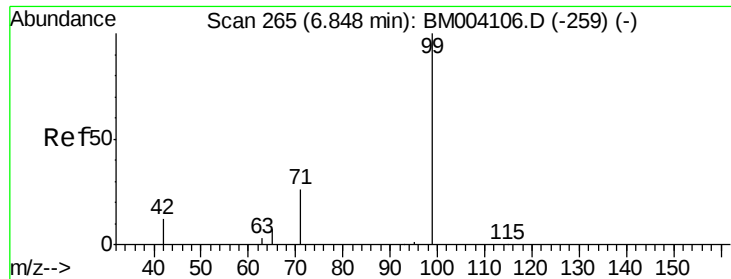


Abundance Ion 112.00 (111.70 to 112.70): BM004106.D (-164) (-)

Ion 64.00 (63.70 to 64.70): BM004106.D (-164) (-)

Ion 63.00 (62.70 to 63.70): BM004106.D (-164) (-)





#5

Phenol-d6

Concen: 6.15 ng

RT: 6.83 min Scan# 264

Delta R.T. -0.02 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

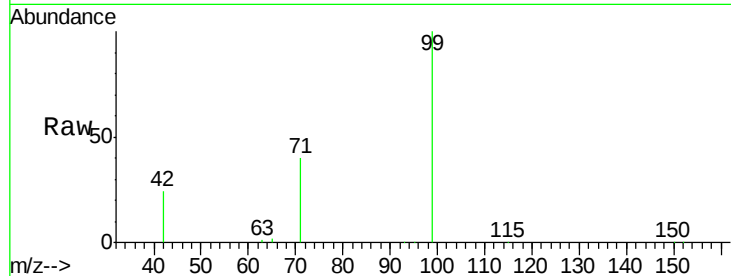
Tgt Ion: 99 Resp: 35845

Ion Ratio Lower Upper

99 100

42 18.5 16.2 24.2

71 30.7 24.4 36.6



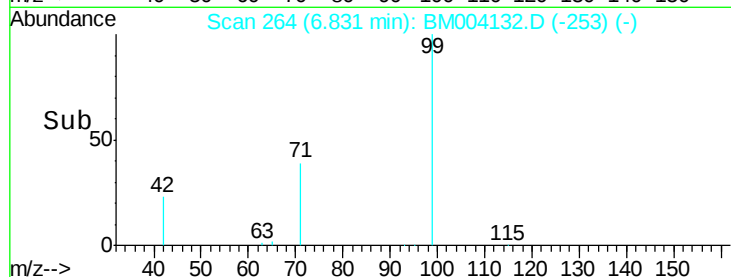
Abundance Ion 99.00 (98.70 to 99.70): BM004106.D (-259) (-)

Ion 42.00 (41.70 to 42.70): BM004106.D (-259) (-)

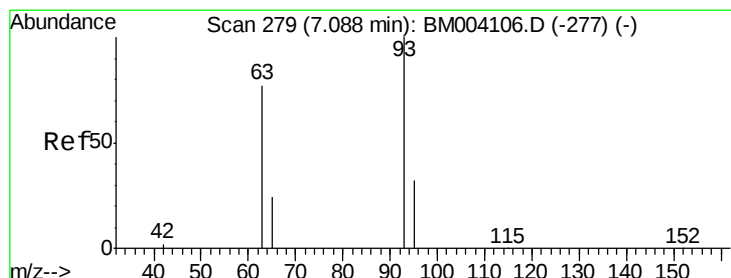
Ion 71.00 (70.70 to 71.70): BM004106.D (-259) (-)

6.83

Time-->



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 3.09 ng

RT: 7.09 min Scan# 279

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

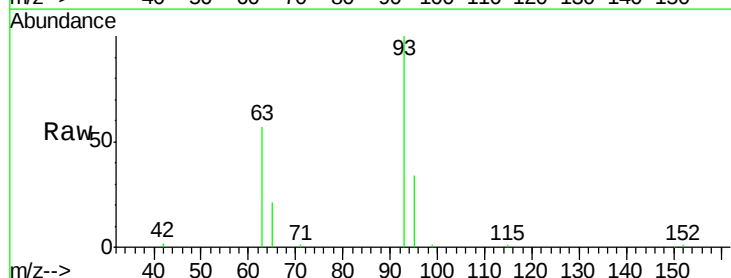
Tgt Ion: 93 Resp: 16695

Ion Ratio Lower Upper

93 100

63 73.2 58.3 87.5

95 33.1 25.8 38.8



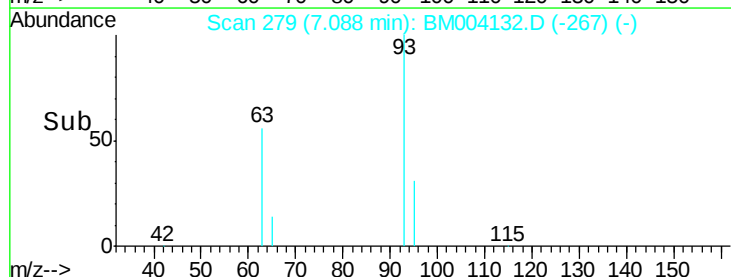
Abundance Ion 93.00 (92.70 to 93.70): BM004106.D (-277) (-)

Ion 63.00 (62.70 to 63.70): BM004106.D (-277) (-)

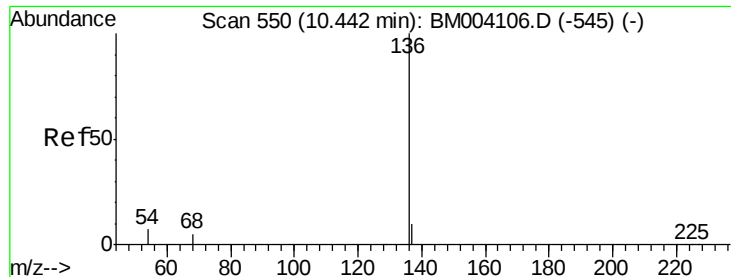
Ion 95.00 (94.70 to 95.70): BM004106.D (-277) (-)

7.09

Time-->



Time-->



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.44 min Scan# 550

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

Tgt Ion:136 Resp: 101962

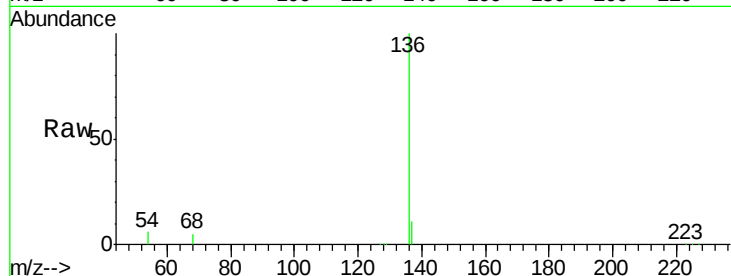
Ion Ratio Lower Upper

136 100

137 10.6 9.2 13.8

54 6.1 2.8 4.2#

68 4.8 2.5 3.7#

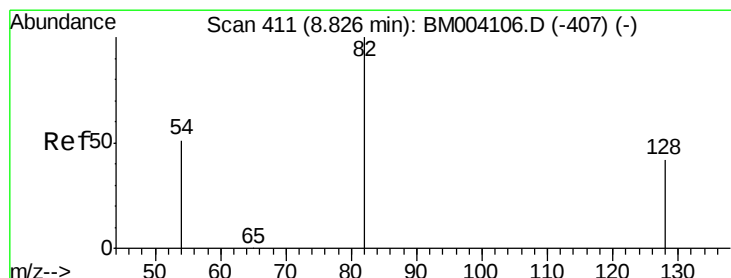
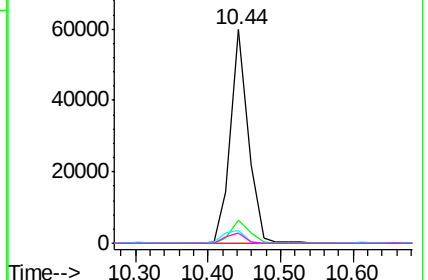
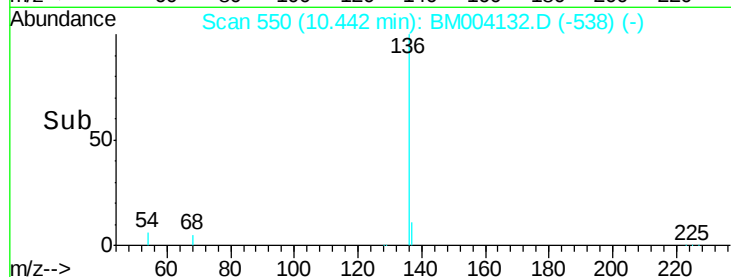


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 3.58 ng

RT: 8.82 min Scan# 410

Delta R.T. -0.01 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

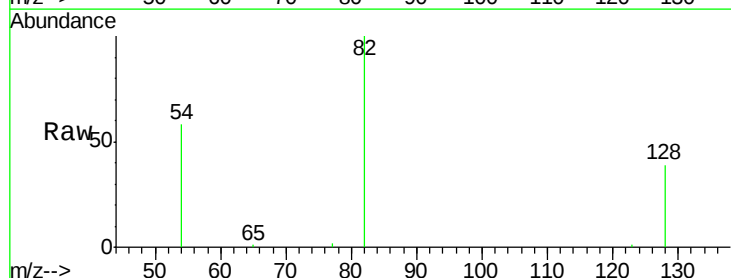
Tgt Ion: 82 Resp: 16011

Ion Ratio Lower Upper

82 100

128 39.1 39.1 58.7

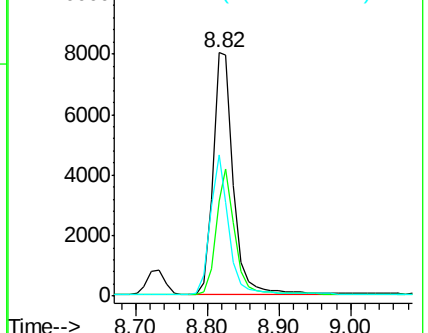
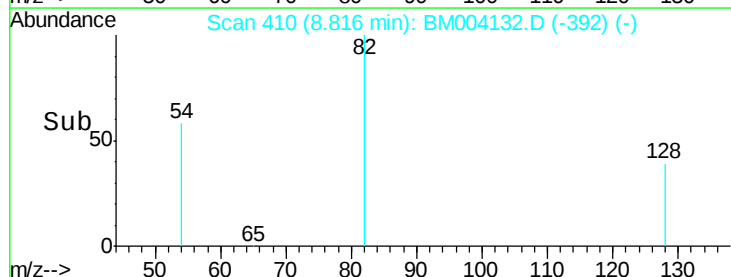
54 58.0 34.8 52.2#

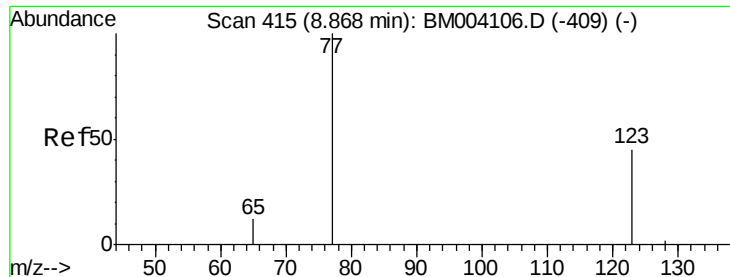


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 2.83 ng

RT: 8.86 min Scan# 414

Delta R.T. -0.01 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

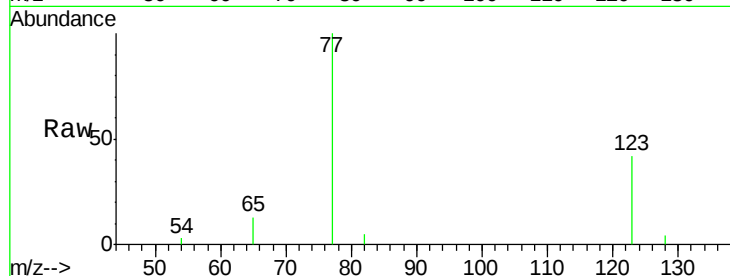
Tgt Ion: 77 Resp: 17387

Ion Ratio Lower Upper

77 100

123 49.2 38.6 57.8

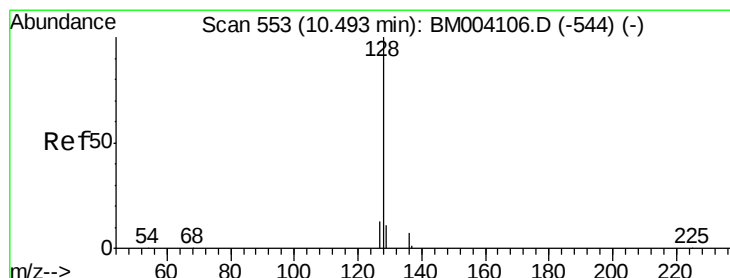
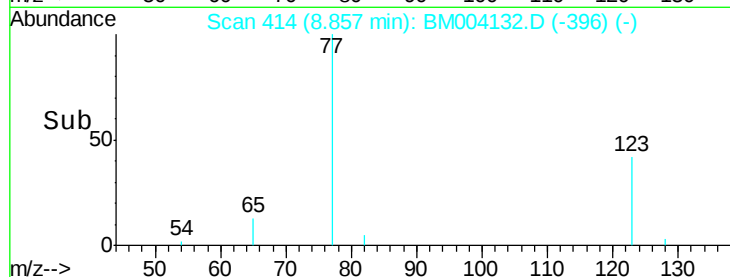
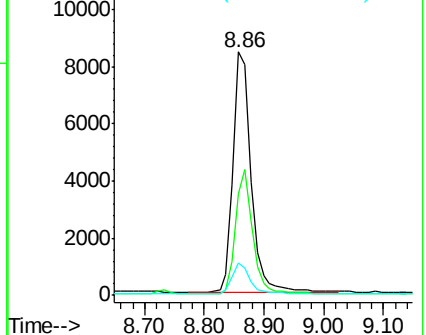
65 12.5 9.9 14.9



Abundance Ion 77.00 (76.70 to 77.70): BM004132.D (-396) (-)

Ion 123.00 (122.70 to 123.70): BM004132.D (-396) (-)

Ion 65.00 (64.70 to 65.70): BM004132.D (-396) (-)



#10

Naphthalene

Concen: 2.98 ng

RT: 10.49 min Scan# 553

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

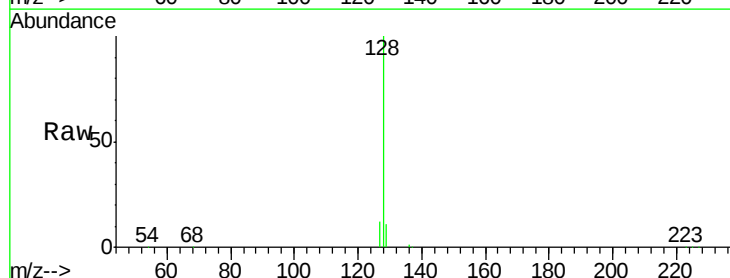
Tgt Ion: 128 Resp: 70888

Ion Ratio Lower Upper

128 100

129 11.4 8.5 12.7

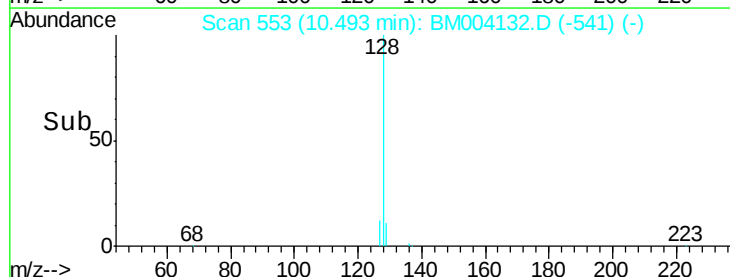
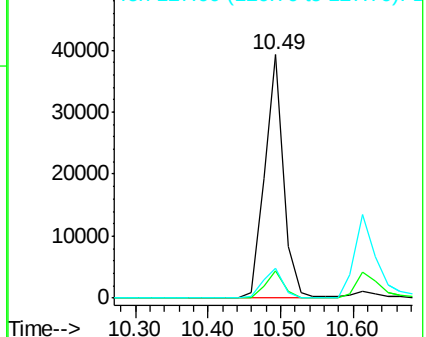
127 12.1 11.0 16.4

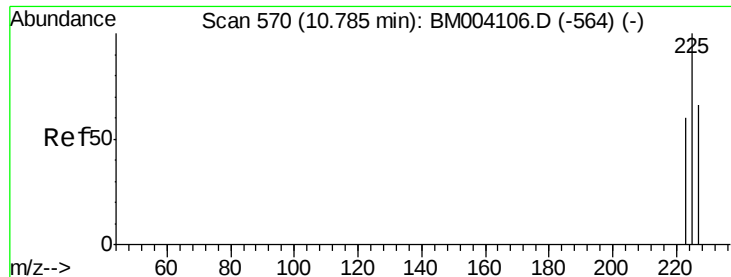


Abundance Ion 128.00 (127.70 to 128.70): BM004132.D (-541) (-)

Ion 129.00 (128.70 to 129.70): BM004132.D (-541) (-)

Ion 127.00 (126.70 to 127.70): BM004132.D (-541) (-)

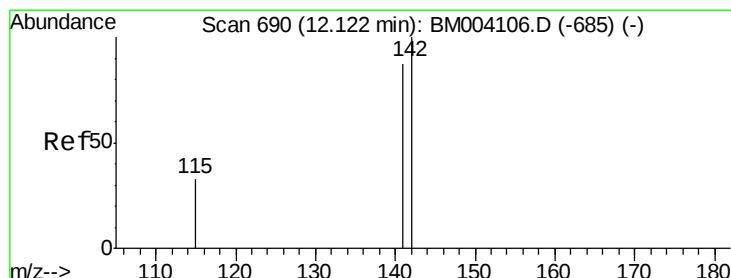
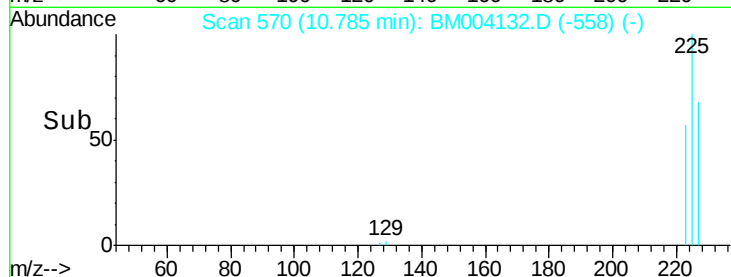
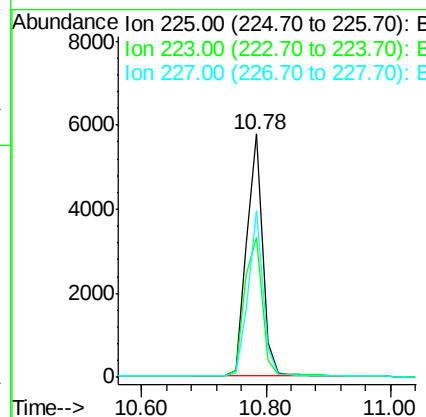
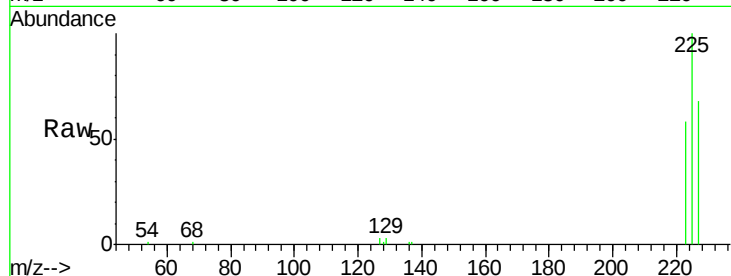




#11  
Hexachlorobutadiene  
Concen: 2.77 ng  
RT: 10.78 min Scan# 570  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

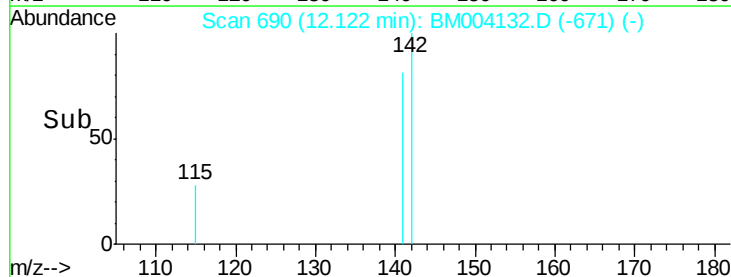
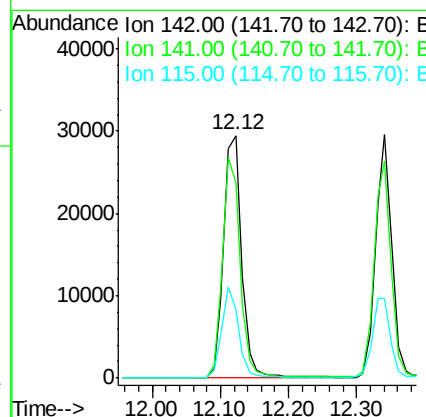
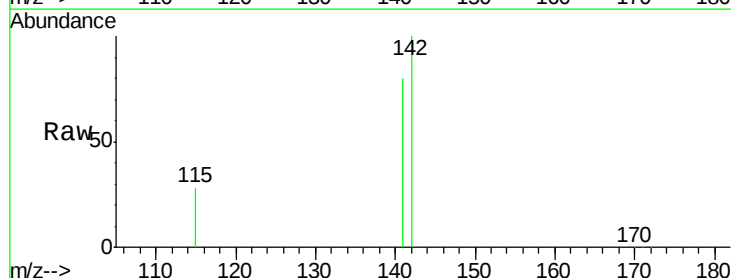
Instrument :  
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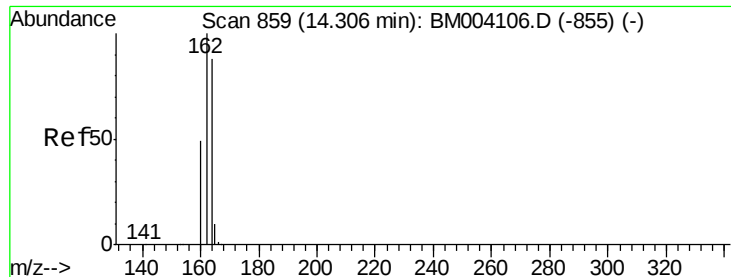
Tgt Ion: 225 Resp: 10151  
Ion Ratio Lower Upper  
225 100  
223 62.9 50.9 76.3  
227 63.6 51.2 76.8



#12  
2-Methylnaphthalene  
Concen: 3.45 ng  
RT: 12.12 min Scan# 690  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion: 142 Resp: 53571  
Ion Ratio Lower Upper  
142 100  
141 80.5 67.8 101.8  
115 28.2 25.3 37.9

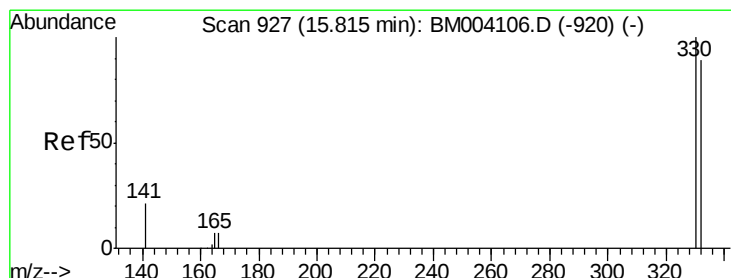
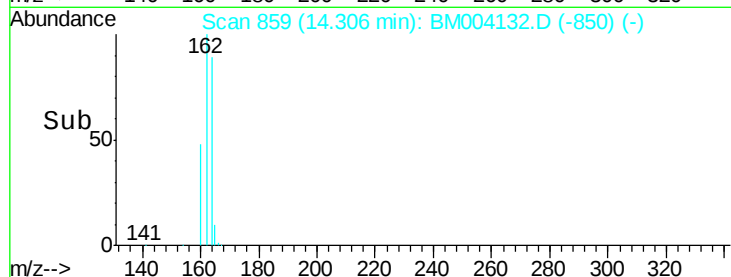
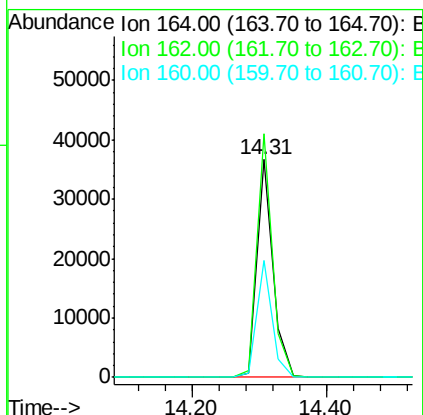
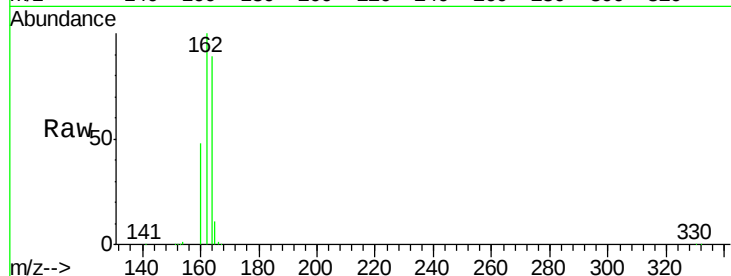




#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.31 min Scan# 859  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

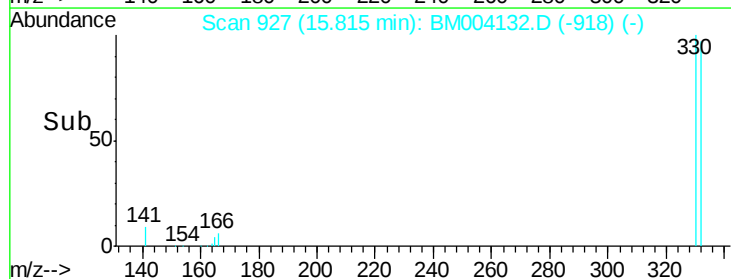
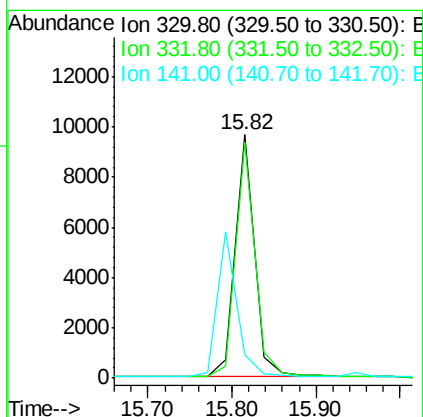
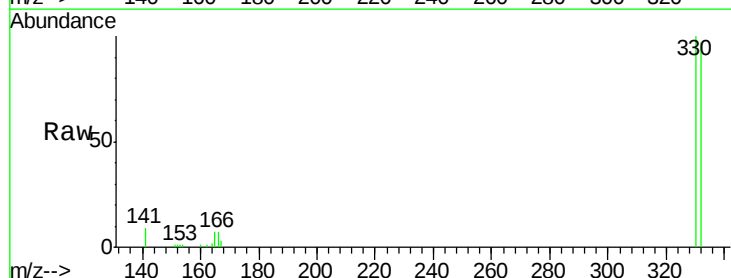
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

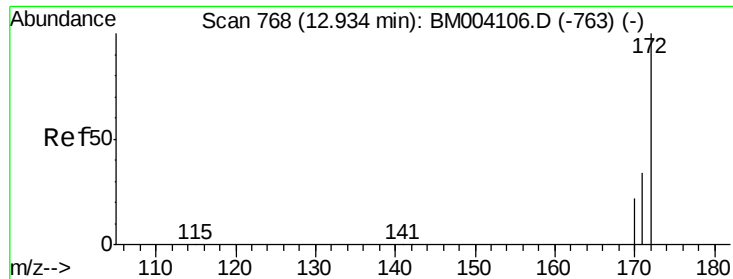
Tgt Ion:164 Resp: 60963  
Ion Ratio Lower Upper  
164 100  
162 111.8 86.0 129.0  
160 53.9 40.3 60.5



#14  
2,4,6-Tribromophenol  
Concen: 6.45 ng  
RT: 15.82 min Scan# 927  
Delta R.T. 0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion:330 Resp: 15291  
Ion Ratio Lower Upper  
330 100  
332 96.5 79.0 118.4  
141 0.0 27.8 41.6#

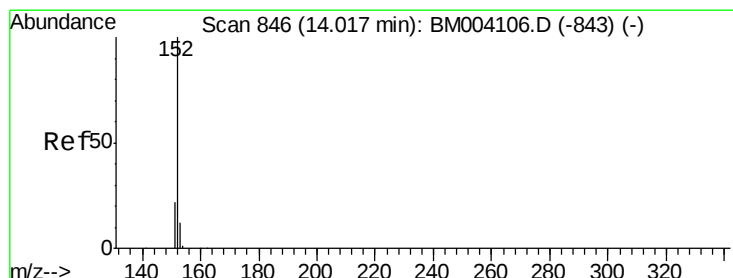
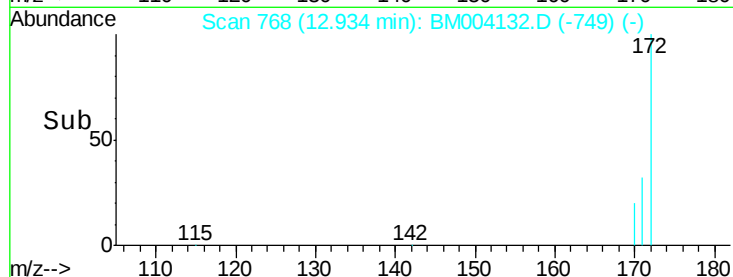
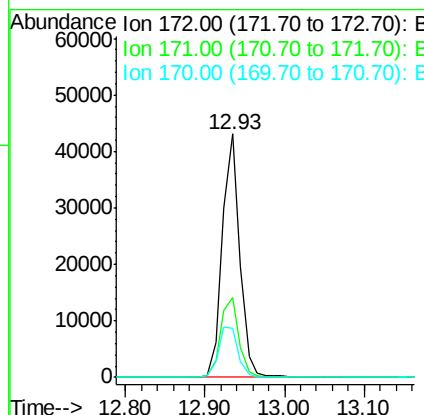
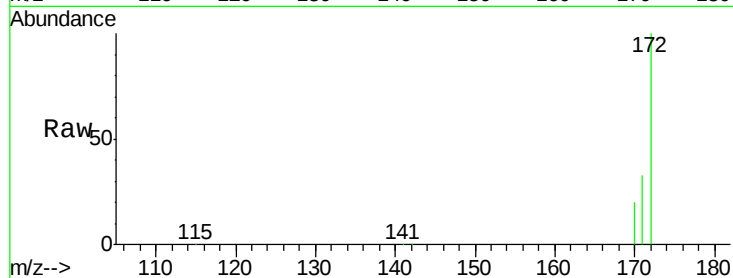




#15  
2-Fluorobiphenyl  
Concen: 3.50 ng  
RT: 12.93 min Scan# 768  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

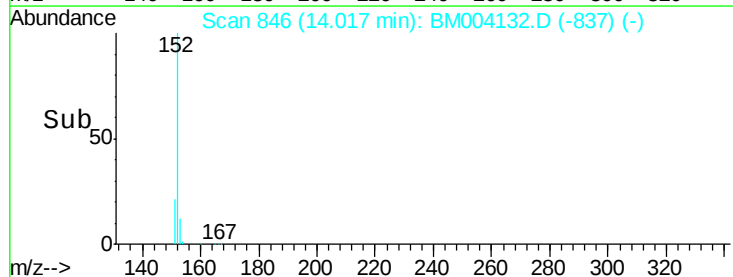
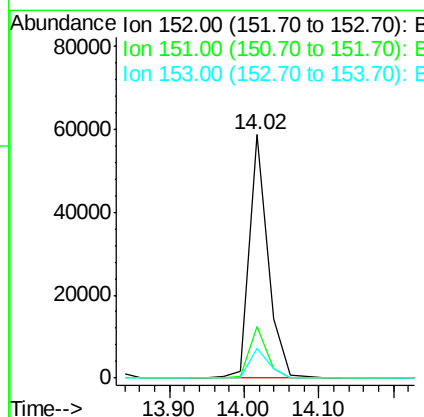
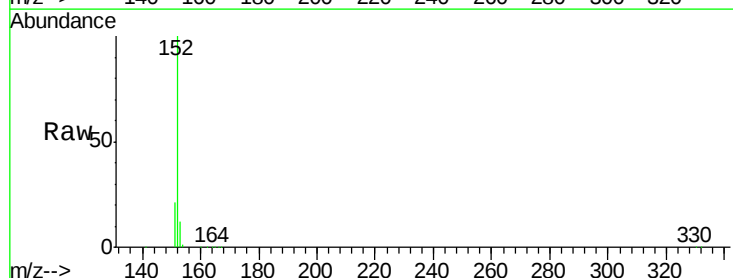
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

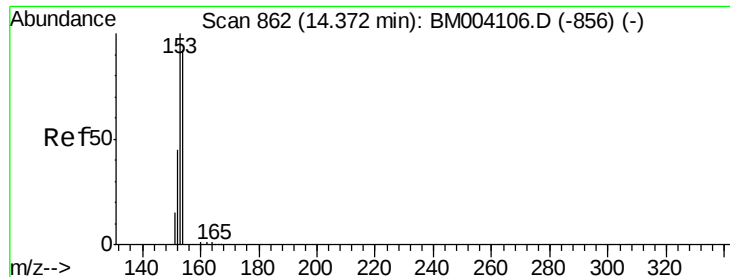
Tgt Ion:172 Resp: 65377  
Ion Ratio Lower Upper  
172 100  
171 32.6 27.0 40.6  
170 20.4 17.9 26.9



#16  
Acenaphthylene  
Concen: 3.82 ng  
RT: 14.02 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion:152 Resp: 100581  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.8 23.8  
153 12.7 10.2 15.4

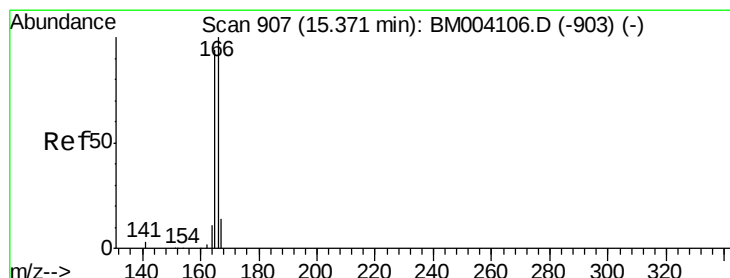
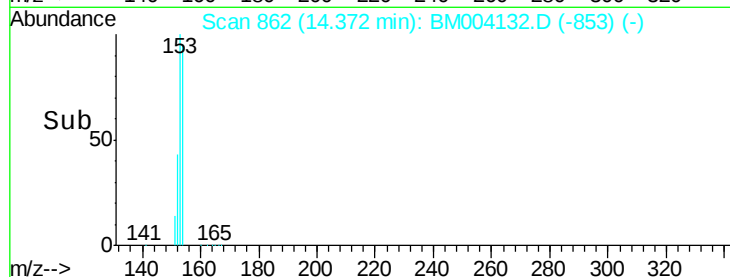
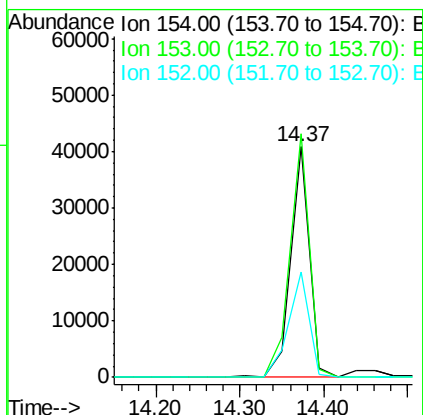
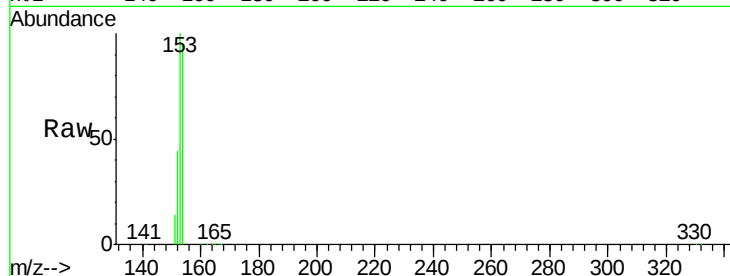




#17  
Acenaphthene  
Concen: 3.16 ng  
RT: 14.37 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

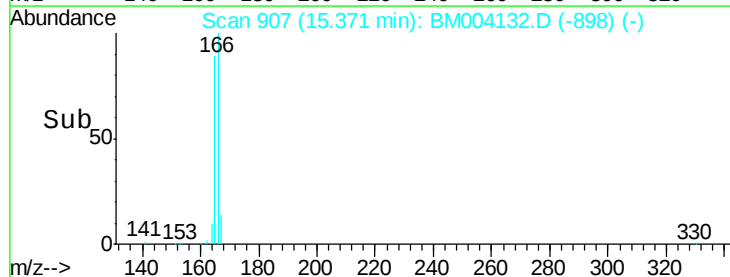
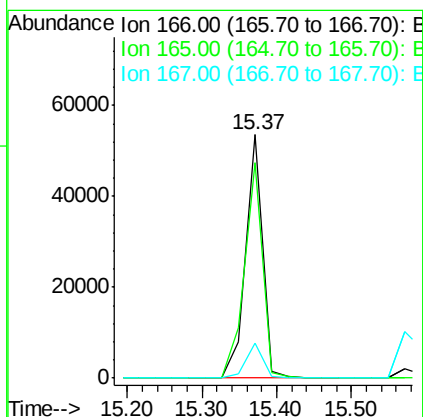
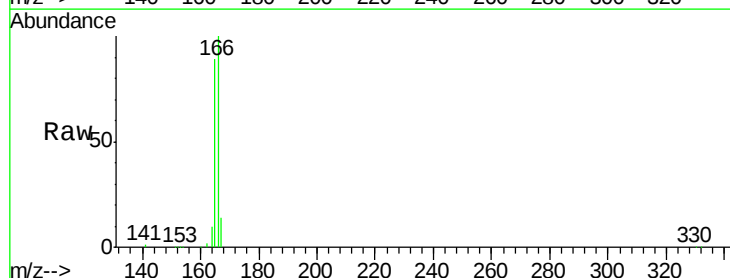
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

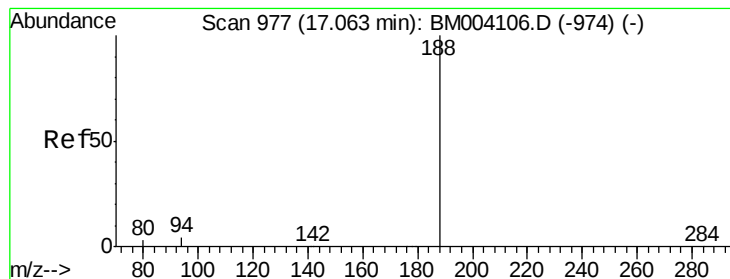
Tgt Ion:154 Resp: 62888  
Ion Ratio Lower Upper  
154 100  
153 109.6 85.4 128.2  
152 51.0 40.6 60.8



#18  
Fluorene  
Concen: 3.50 ng  
RT: 15.37 min Scan# 907  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion:166 Resp: 84721  
Ion Ratio Lower Upper  
166 100  
165 94.5 77.2 115.8  
167 13.7 11.0 16.6





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.06 min Scan# 977

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

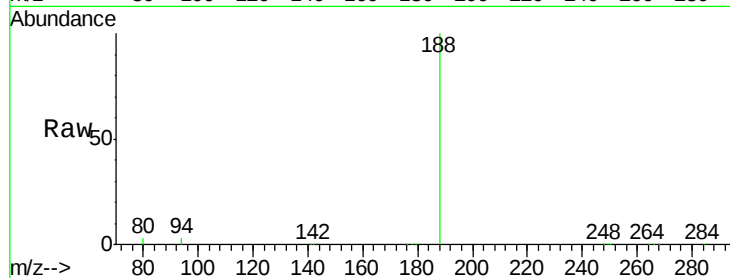
Tgt Ion:188 Resp: 158815

Ion Ratio Lower Upper

188 100

94 3.4 20.3 30.5#

80 2.8 22.2 33.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

120000

100000

80000

60000

40000

20000

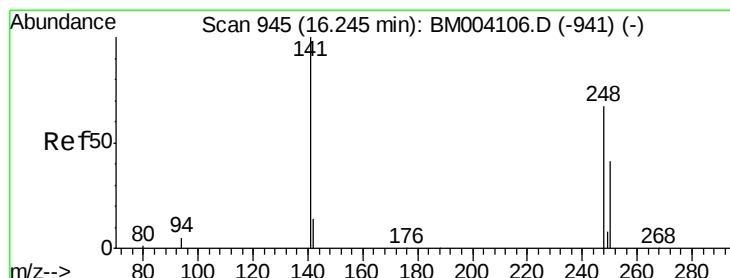
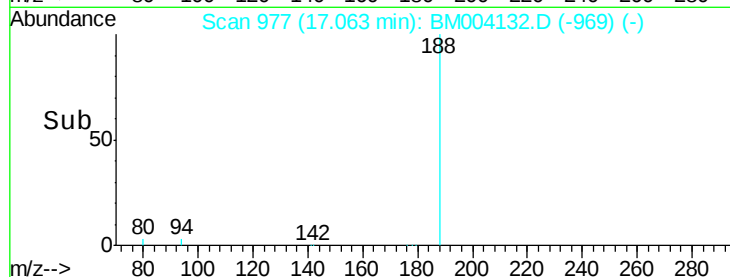
0

17.06

17.00

17.10

Time-->



#20

4-Bromophenyl-phenylether

Concen: 4.19 ng

RT: 16.24 min Scan# 945

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

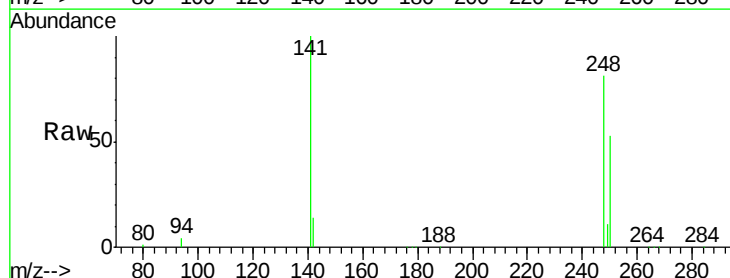
Tgt Ion:248 Resp: 21674

Ion Ratio Lower Upper

248 100

250 84.2 75.0 112.4

141 108.5 53.0 79.4#



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

20000

15000

10000

5000

0

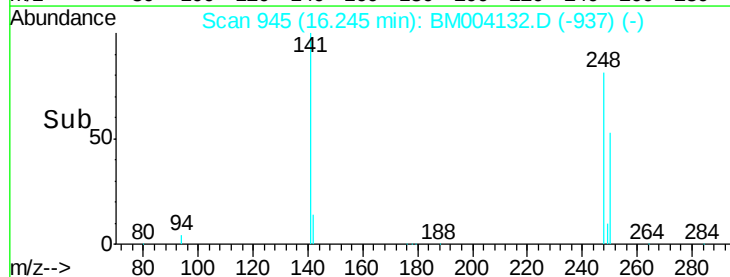
16.24

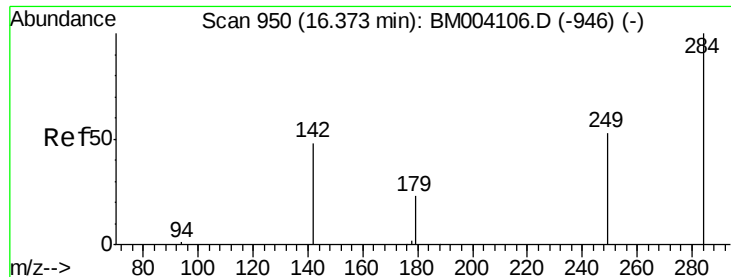
16.10

16.20

16.30

Time-->

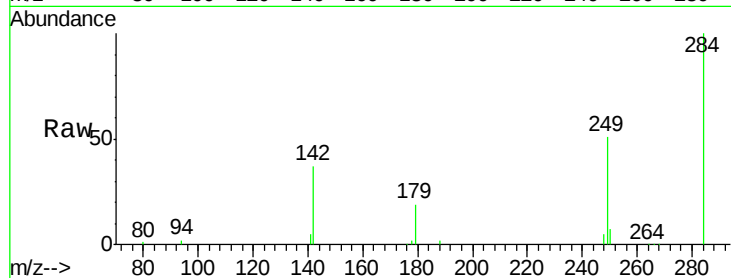




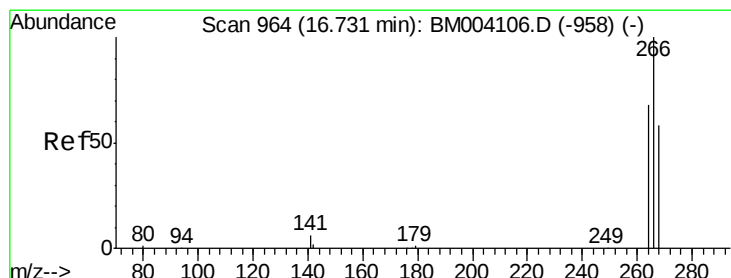
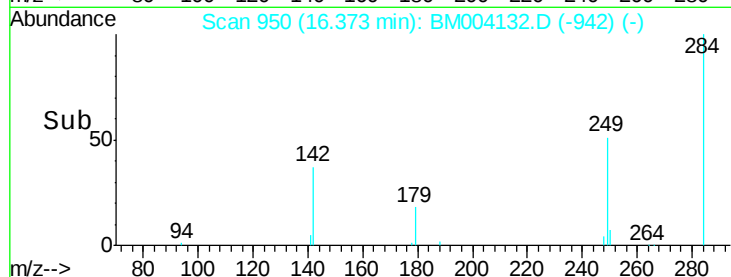
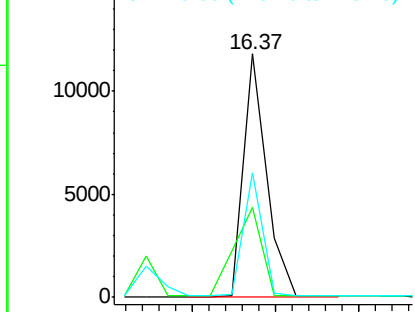
#21  
Hexachlorobenzene  
Concen: 4.13 ng  
RT: 16.37 min Scan# 950  
Delta R.T. -0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

Tgt Ion:284 Resp: 22456  
Ion Ratio Lower Upper  
284 100  
142 44.8 22.2 33.4#  
249 42.8 21.5 32.3#

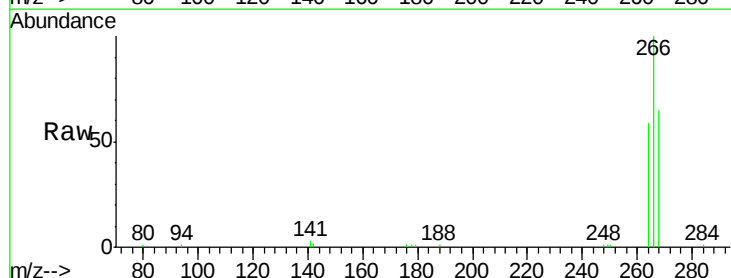


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

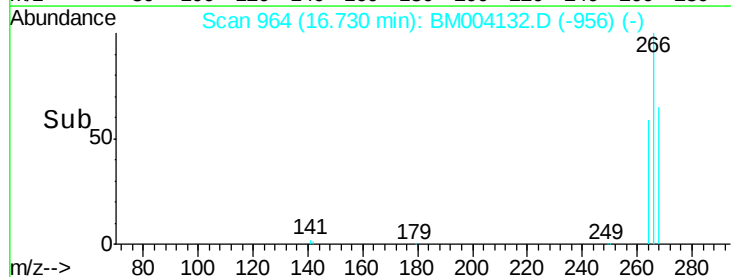
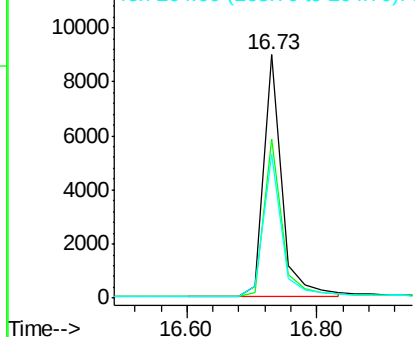


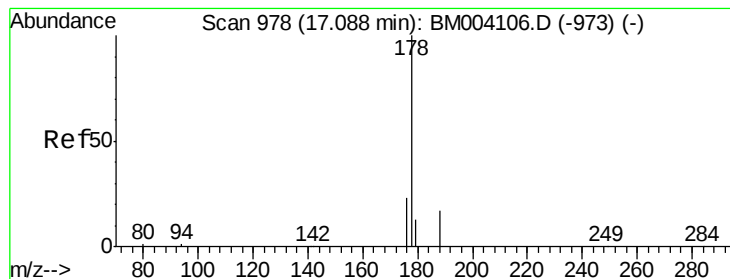
#22  
Pentachlorophenol  
Concen: 7.50 ng  
RT: 16.73 min Scan# 964  
Delta R.T. 0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion:266 Resp: 17418  
Ion Ratio Lower Upper  
266 100  
268 65.5 62.7 94.1  
264 59.2 45.7 68.5



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





#23

Phenanthrene

Concen: 4.39 ng

RT: 17.09 min Scan# 978

Delta R.T. 0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

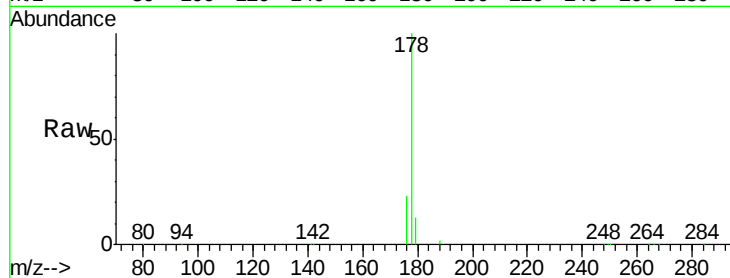
Tgt Ion:178 Resp: 135029

Ion Ratio Lower Upper

178 100

176 20.9 15.4 23.0

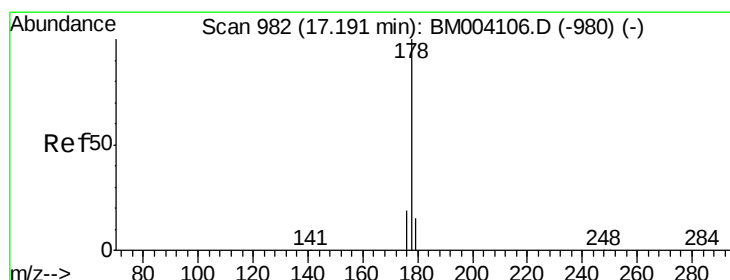
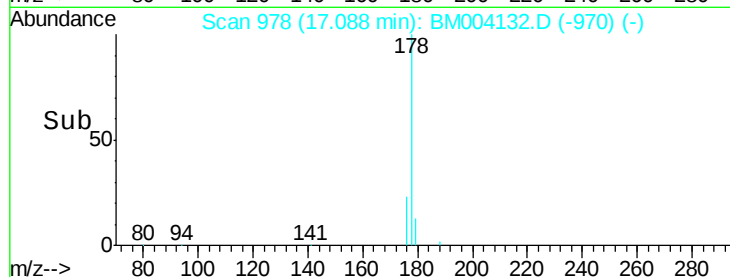
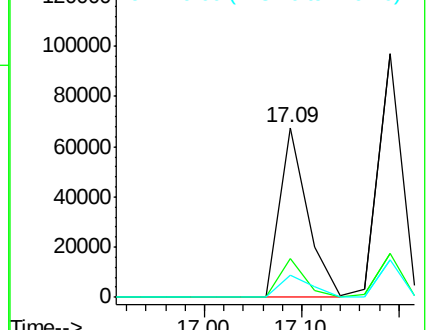
179 14.6 12.2 18.4



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: 4.45 ng

RT: 17.19 min Scan# 982

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

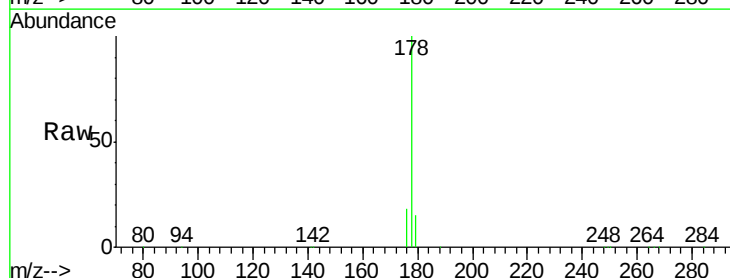
Tgt Ion:178 Resp: 161453

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

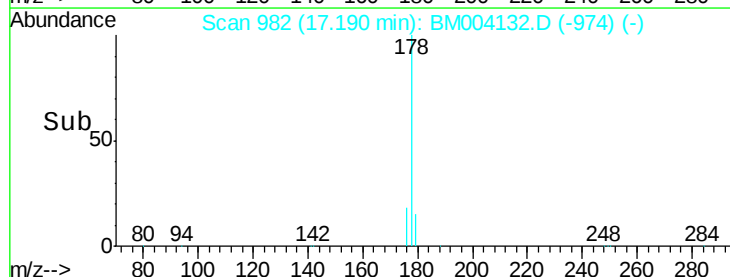
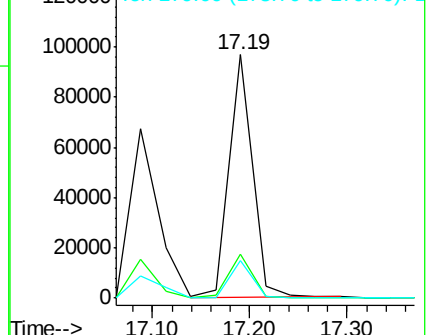
179 15.4 12.6 19.0

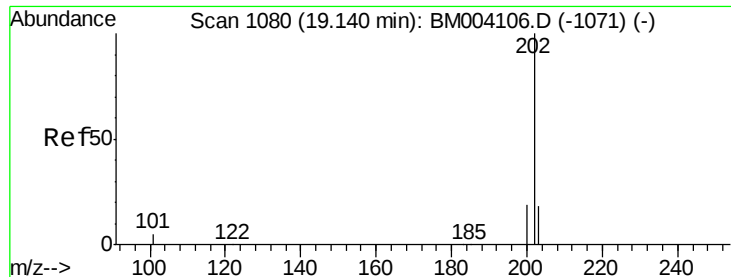


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene

Concen: 4.12 ng

RT: 19.14 min Scan# 1080

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

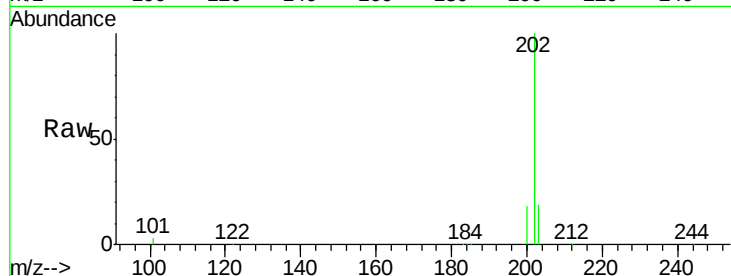
Tgt Ion: 202 Resp: 177439

Ion Ratio Lower Upper

202 100

101 12.0 9.7 14.5

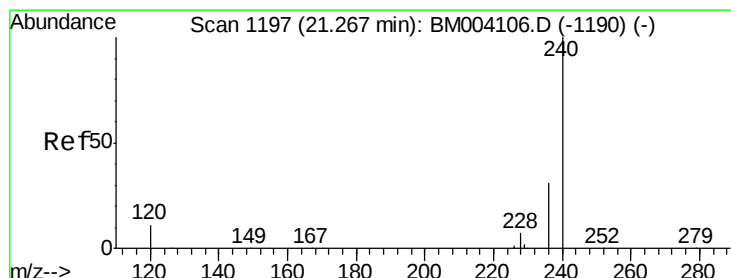
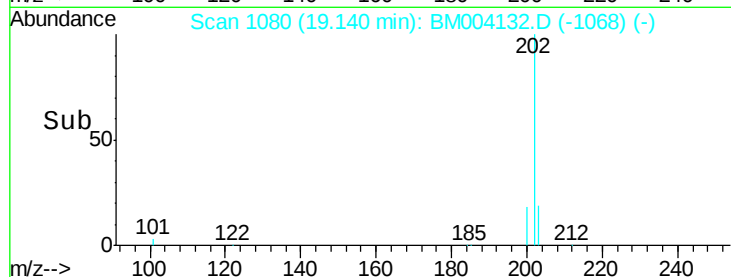
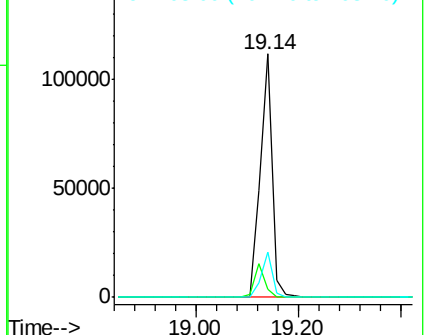
203 17.4 13.8 20.8



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.27 min Scan# 1197

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

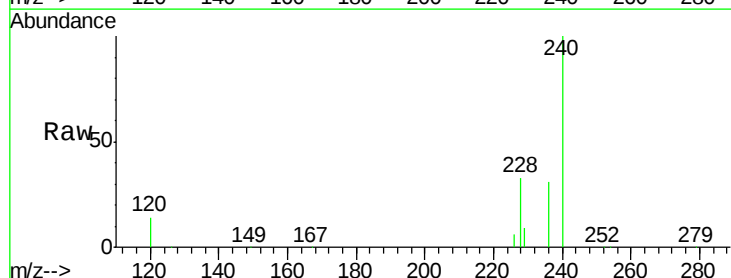
Tgt Ion: 240 Resp: 163130

Ion Ratio Lower Upper

240 100

120 14.0 0.9 1.3#

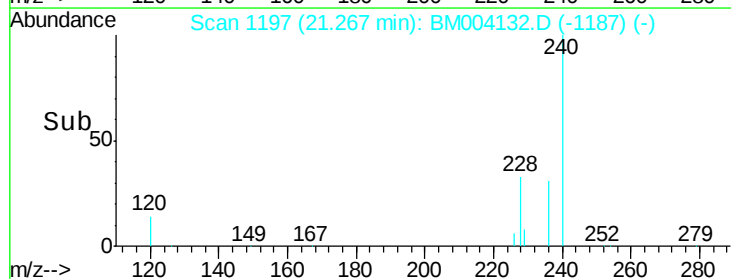
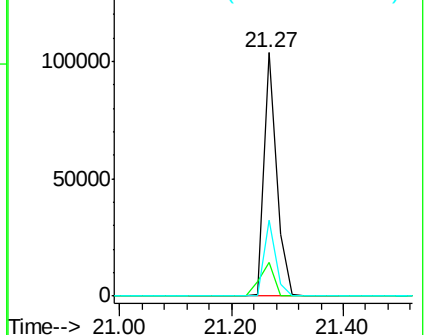
236 31.4 17.3 25.9#

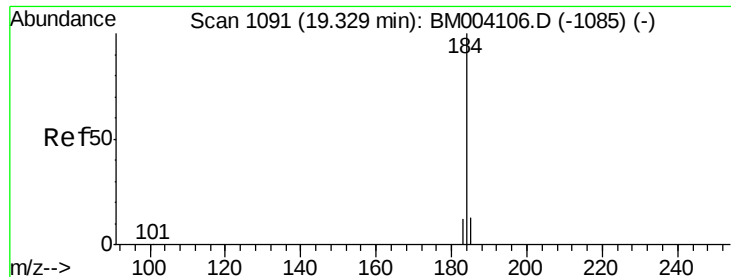


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

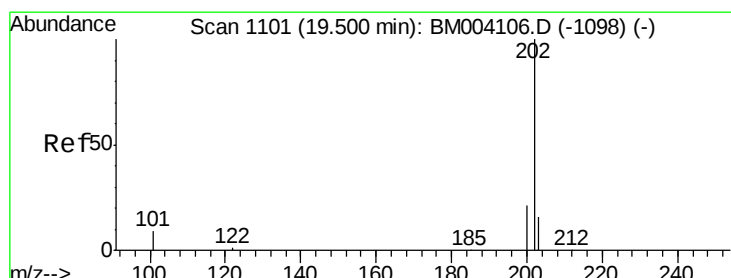
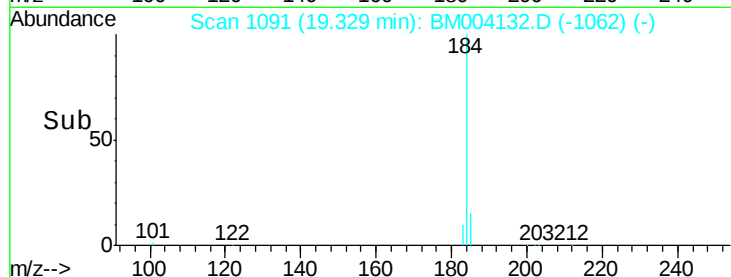
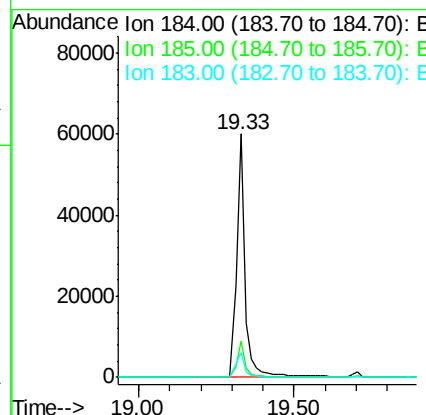
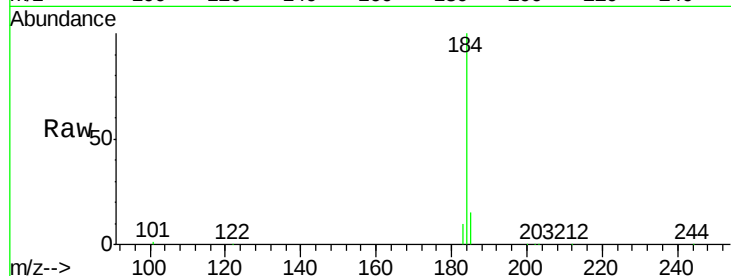




#27  
Benzidine  
Concen: 7.57 ng  
RT: 19.33 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

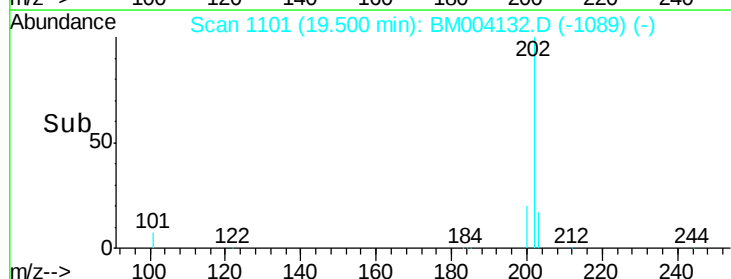
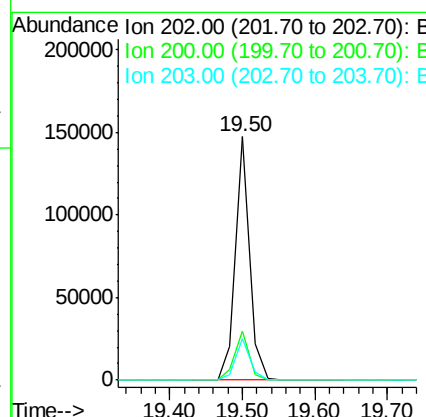
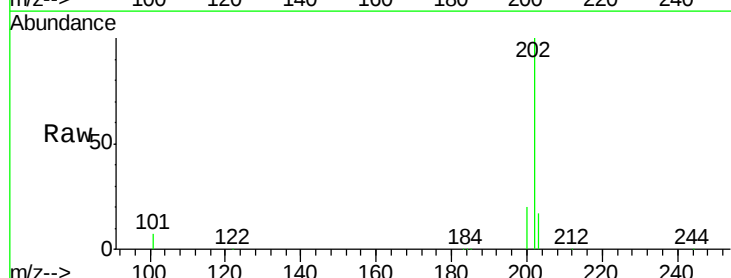
Instrument :  
BNA\_M  
ClientSampleId :  
PB87989BS

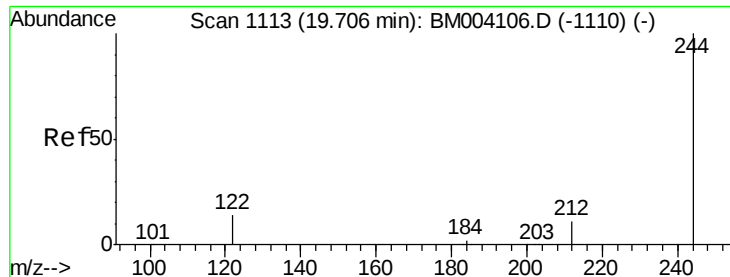
Tgt Ion:184 Resp: 113476  
Ion Ratio Lower Upper  
184 100  
185 15.1 13.2 19.8  
183 10.3 9.0 13.6



#28  
Pyrene  
Concen: 4.40 ng  
RT: 19.50 min Scan# 1101  
Delta R.T. 0.00 min  
Lab File: BM004132.D  
Acq: 27 Jan 2016 13:49

Tgt Ion:202 Resp: 198366  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.6 24.8  
203 17.8 14.0 21.0





#29

Terphenyl-d14

Concen: 4.18 ng

RT: 19.71 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

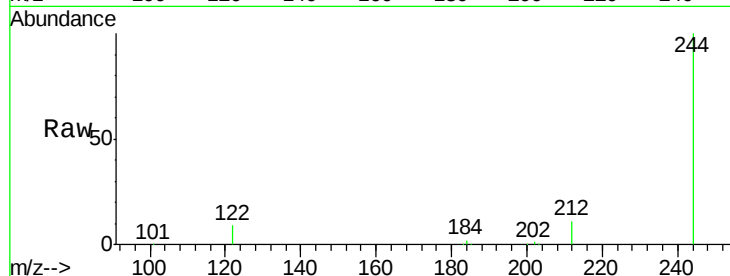
Tgt Ion:244 Resp: 86756

Ion Ratio Lower Upper

244 100

212 10.6 7.0 10.6#

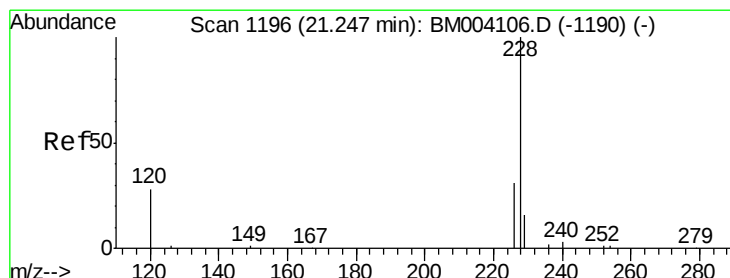
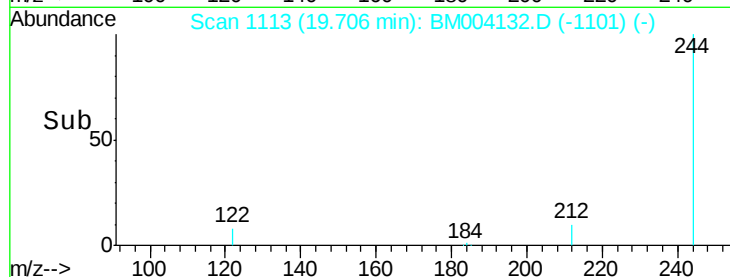
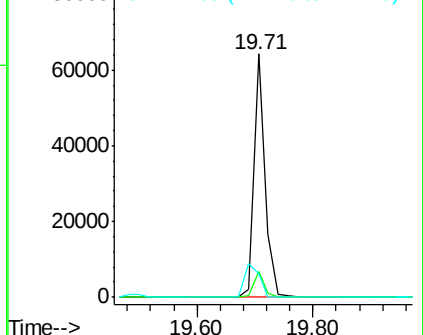
122 9.5 3.0 4.6#



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



#30

Benzo(a)anthracene

Concen: 4.34 ng

RT: 21.25 min Scan# 1196

Delta R.T. 0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

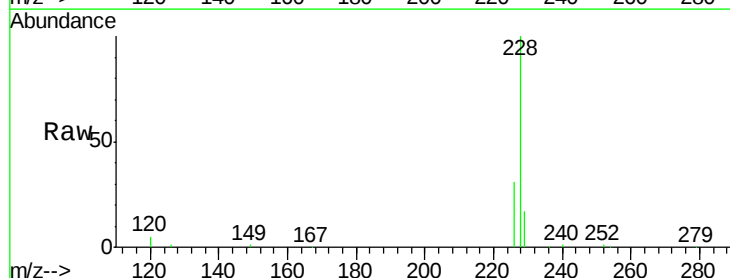
Tgt Ion:228 Resp: 206951

Ion Ratio Lower Upper

228 100

226 31.4 17.2 25.8#

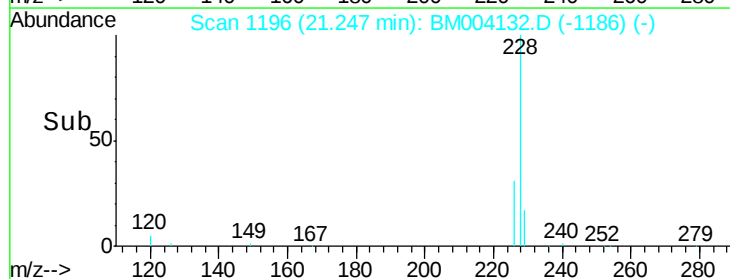
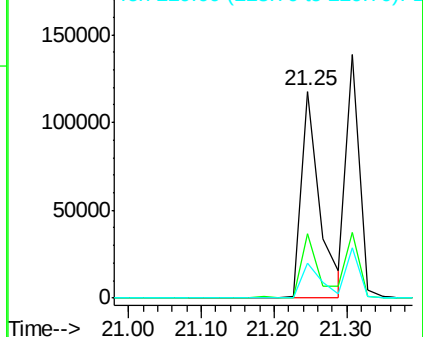
229 16.6 18.7 28.1#

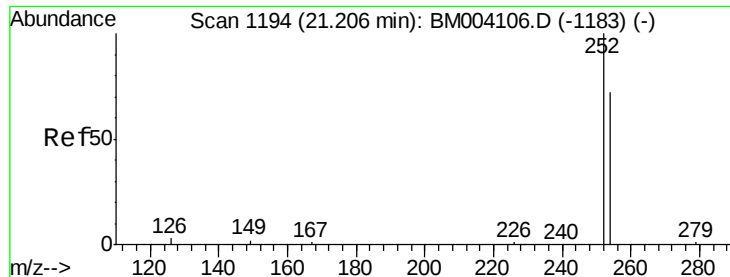


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

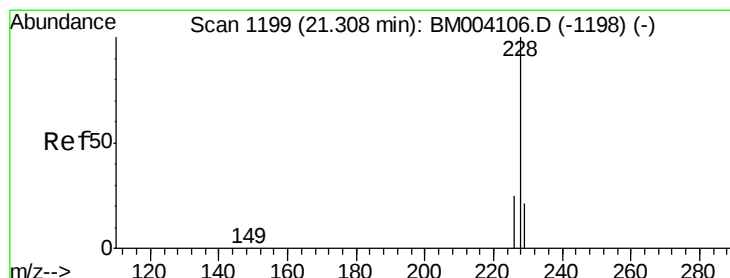
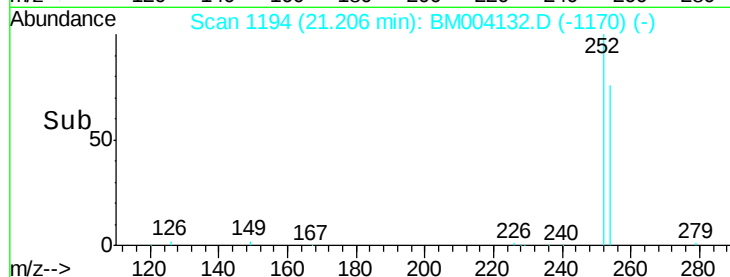
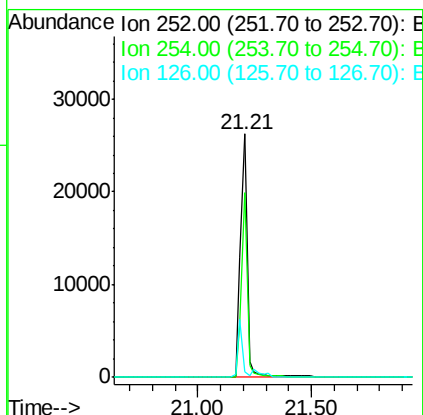
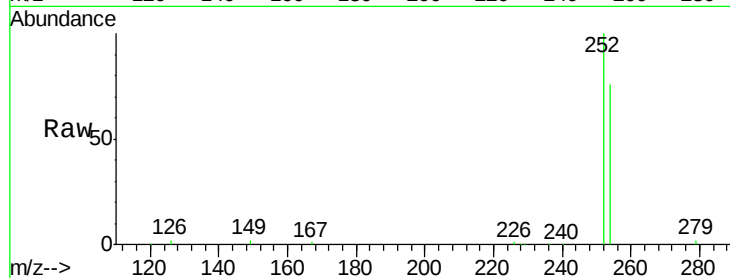




#31  
 3,3'-Dichlorobenzidine  
 Concen: 4.21 ng  
 RT: 21.21 min Scan# 1194  
 Delta R.T. 0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

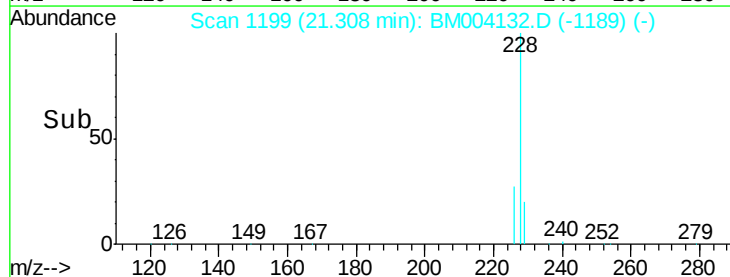
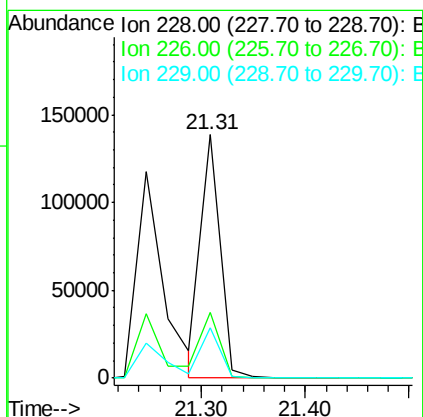
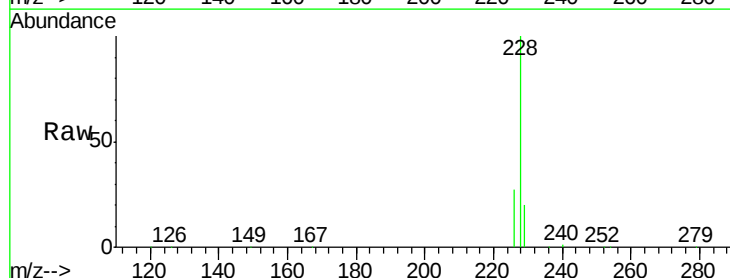
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BS

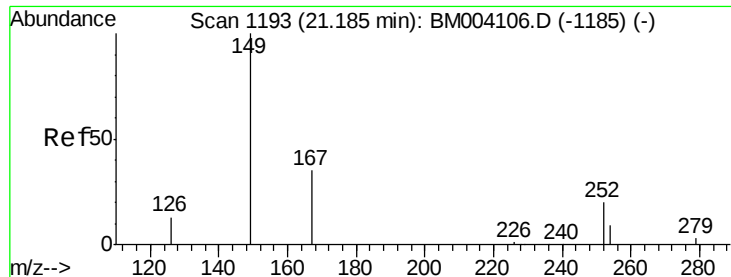
Tgt Ion:252 Resp: 52747  
 Ion Ratio Lower Upper  
 252 100  
 254 76.1 52.6 79.0  
 126 2.1 3.7 5.5#



#32  
 Chrysene  
 Concen: 4.32 ng  
 RT: 21.31 min Scan# 1199  
 Delta R.T. 0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

Tgt Ion:228 Resp: 177451  
 Ion Ratio Lower Upper  
 228 100  
 226 27.2 25.3 37.9  
 229 20.4 14.5 21.7

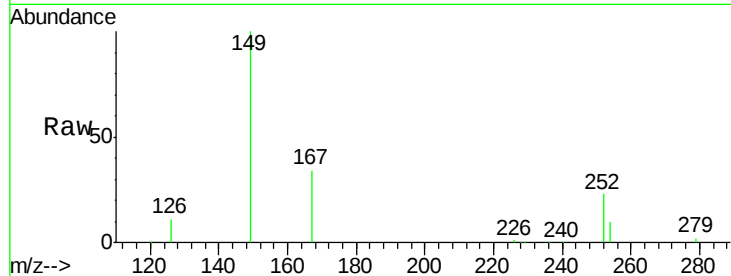




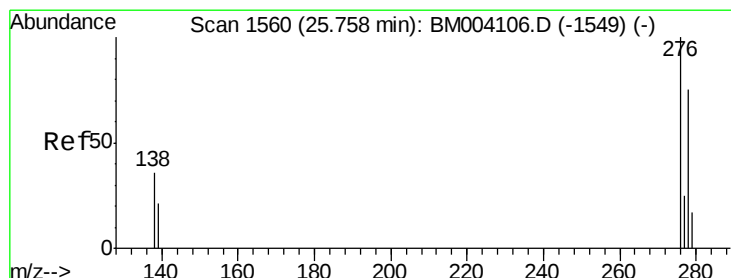
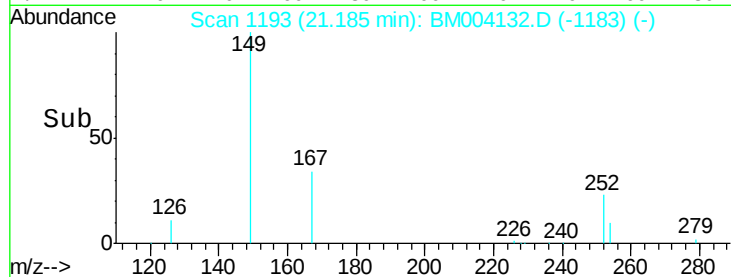
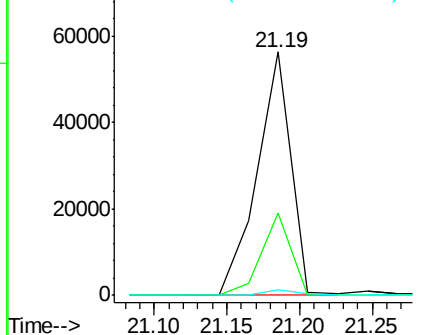
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.21 ng  
 RT: 21.19 min Scan# 1193  
 Delta R.T. 0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BS

Tgt Ion:149 Resp: 90594  
 Ion Ratio Lower Upper  
 149 100  
 167 29.8 20.1 30.1  
 279 2.1 1.8 2.6

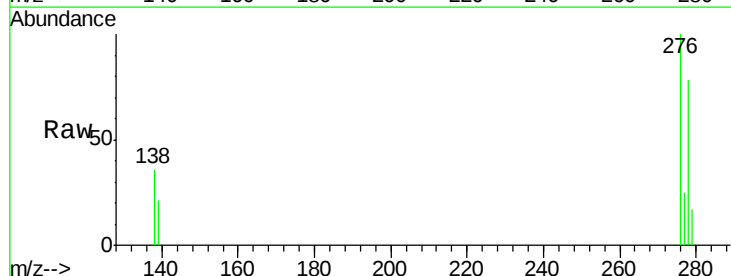


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

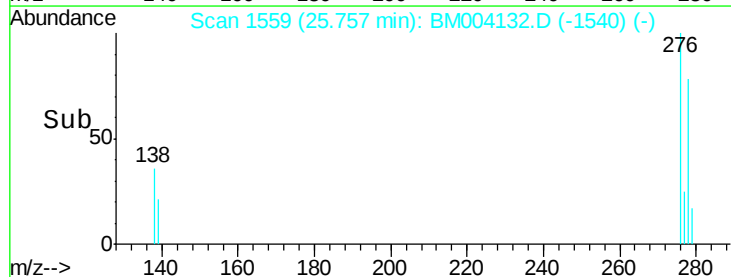
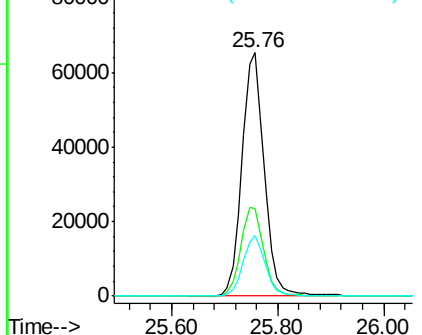


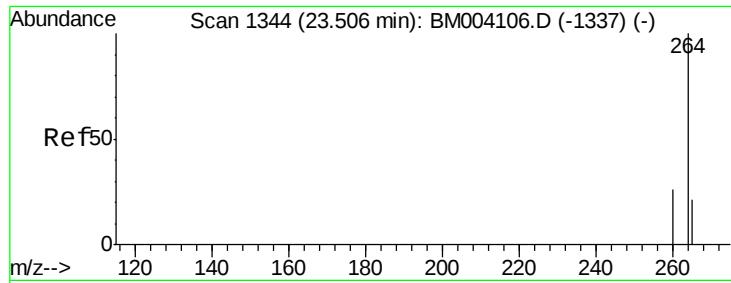
#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.87 ng  
 RT: 25.76 min Scan# 1559  
 Delta R.T. 0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

Tgt Ion:276 Resp: 189585  
 Ion Ratio Lower Upper  
 276 100  
 138 37.4 30.2 45.2  
 277 24.7 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

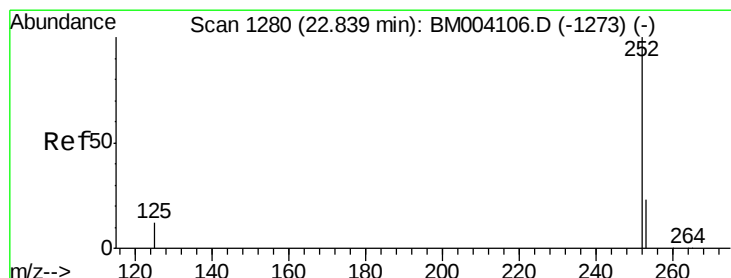
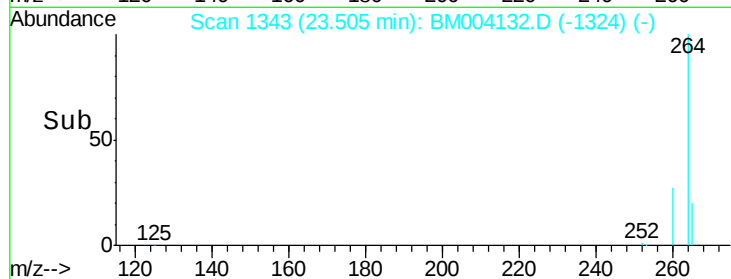
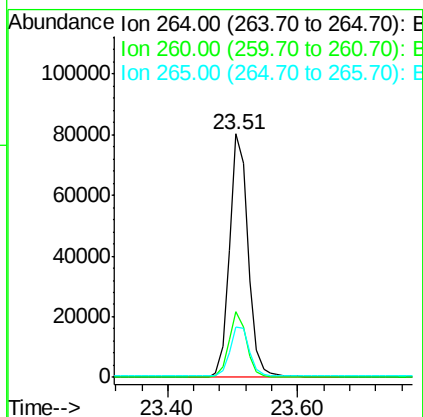
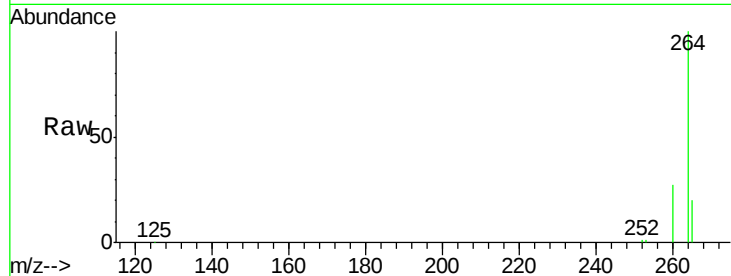




#35  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 23.51 min Scan# 1343  
 Delta R.T. -0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

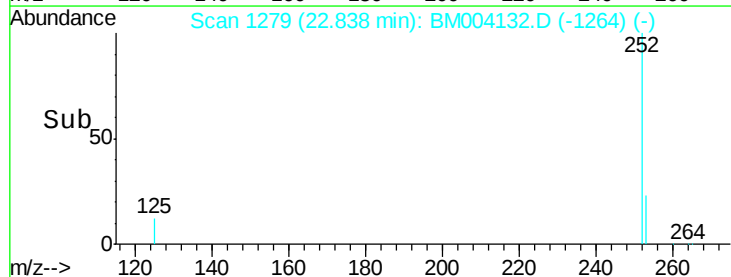
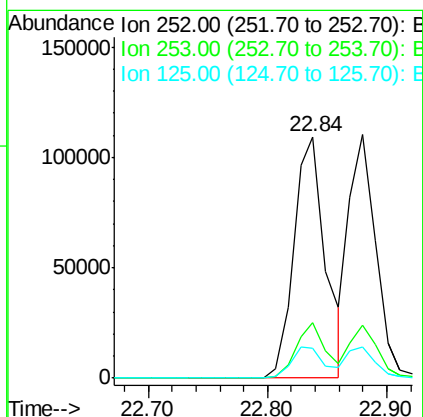
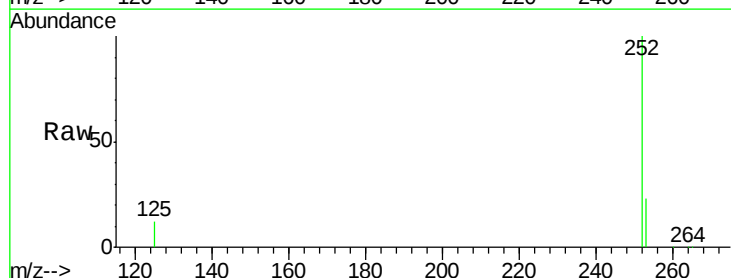
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87989BS

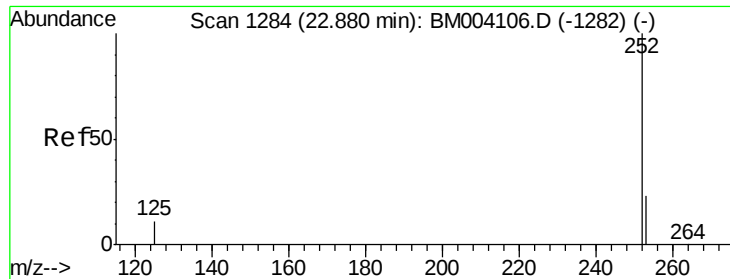
Tgt Ion: 264 Resp: 157444  
 Ion Ratio Lower Upper  
 264 100  
 260 26.8 21.2 31.8  
 265 20.5 16.7 25.1



#36  
 Benzo(b)fluoranthene  
 Concen: 4.13 ng  
 RT: 22.84 min Scan# 1279  
 Delta R.T. -0.00 min  
 Lab File: BM004132.D  
 Acq: 27 Jan 2016 13:49

Tgt Ion: 252 Resp: 201562  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 18.8 28.2  
 125 12.4 10.2 15.4





#37

Benzo(k)fluoranthene

Concen: 3.94 ng

RT: 22.88 min Scan# 1283

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

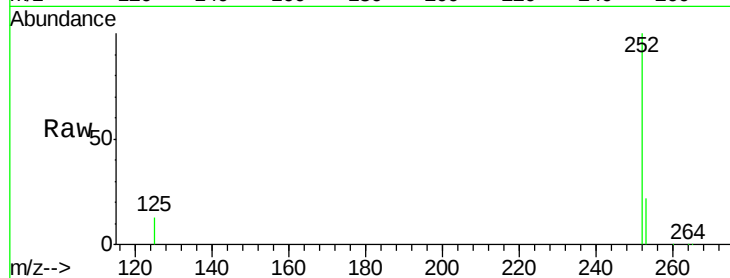
Tgt Ion:252 Resp: 174128

Ion Ratio Lower Upper

252 100

253 21.9 18.3 27.5

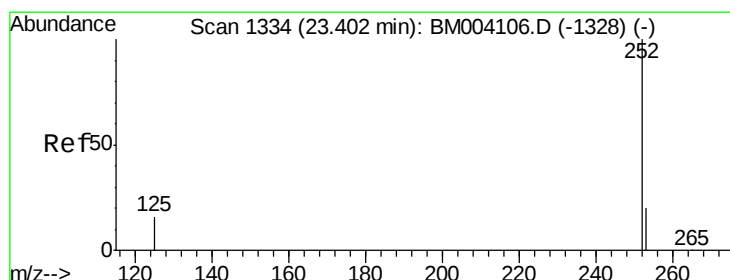
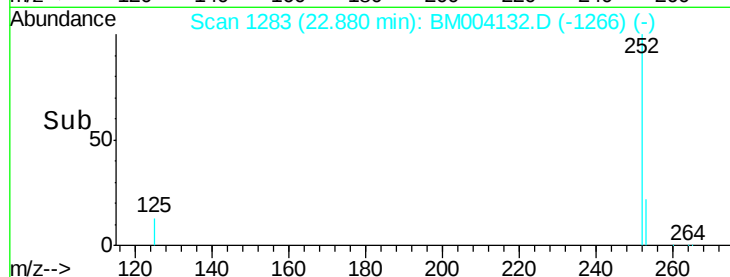
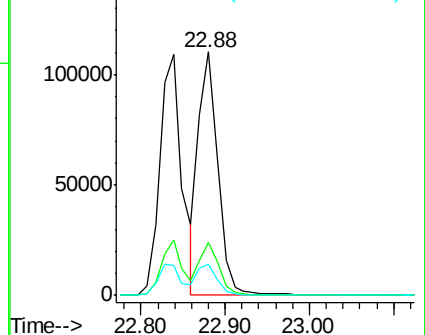
125 12.9 10.6 15.8



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: 4.16 ng

RT: 23.41 min Scan# 1334

Delta R.T. 0.01 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

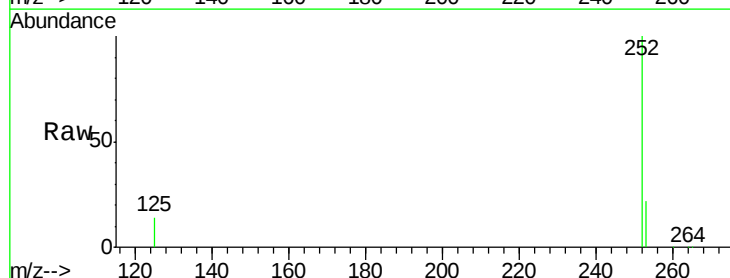
Tgt Ion:252 Resp: 178798

Ion Ratio Lower Upper

252 100

253 22.4 18.7 28.1

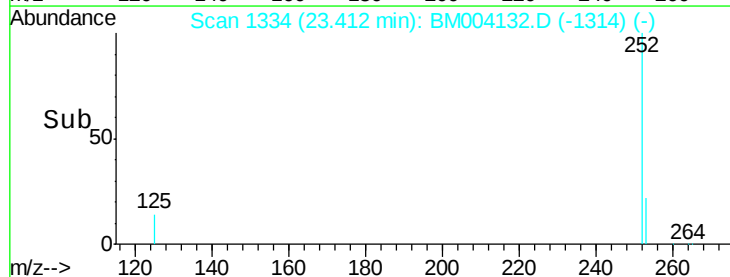
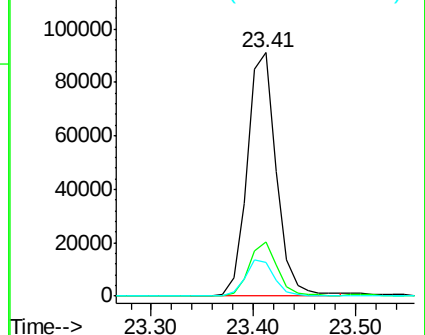
125 13.9 11.8 17.8

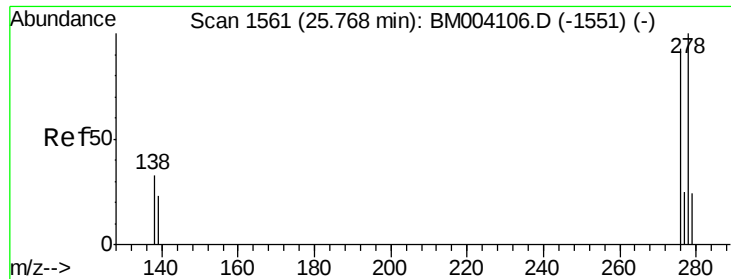


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 3.87 ng

RT: 25.77 min Scan# 1560

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

Instrument :

BNA\_M

ClientSampleId :

PB87989BS

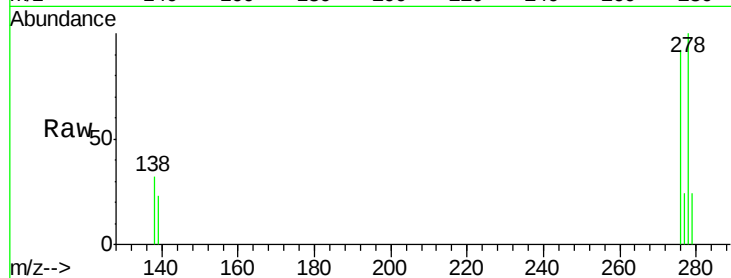
Tgt Ion: 278 Resp: 149600

Ion Ratio Lower Upper

278 100

139 22.9 19.0 28.6

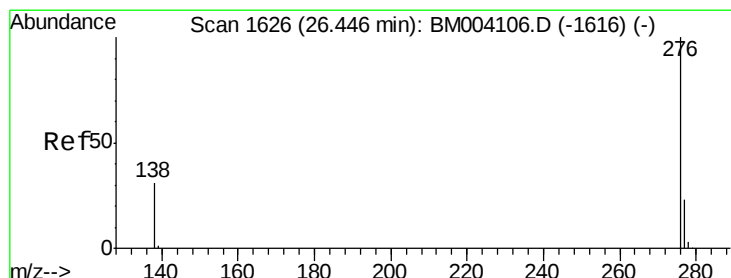
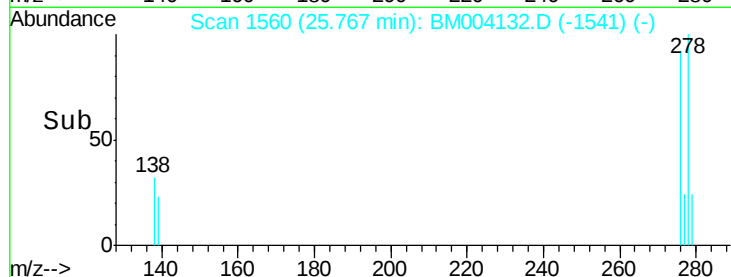
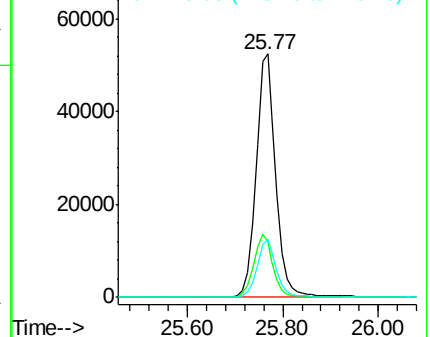
279 23.7 19.6 29.4



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: 3.84 ng

RT: 26.45 min Scan# 1625

Delta R.T. -0.00 min

Lab File: BM004132.D

Acq: 27 Jan 2016 13:49

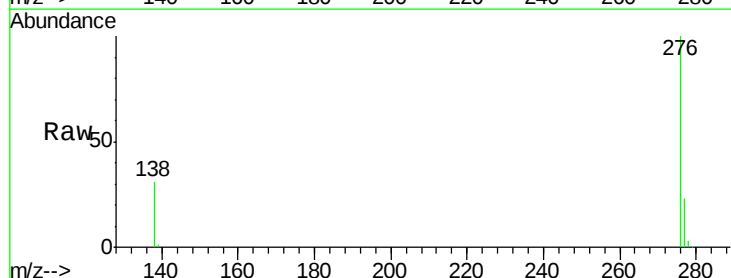
Tgt Ion: 276 Resp: 162056

Ion Ratio Lower Upper

276 100

277 23.4 19.1 28.7

138 31.3 25.0 37.4



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

