

Data Path : Z:\HPCHEM1\BNA M\DATA\BM100915\  
 Data File : BM002884.D  
 Acq On : 09 Oct 2015 14:45  
 Operator : UM/IZ  
 Sample : PB85646BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Oct 10 04:46:35 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM100815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 09 06:47:52 2015  
 Response via : Initial Calibration

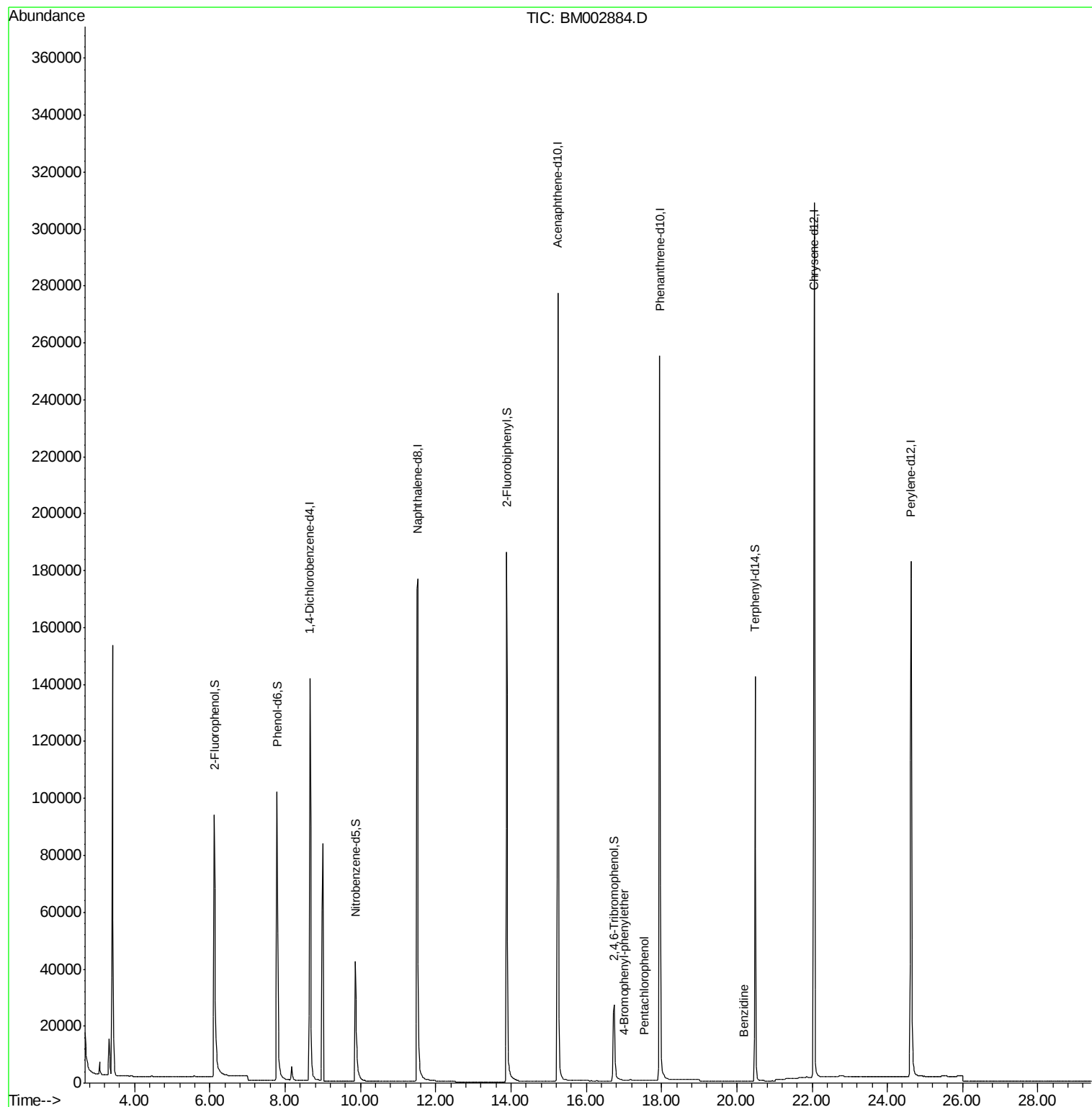
| Internal Standards            | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 8.66  | 152  | 91974    | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8             | 11.52 | 136  | 362146   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 15.25 | 164  | 189932   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.95 | 188  | 411292   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12              | 22.06 | 240  | 375111   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12              | 24.63 | 264  | 305402   | 5.00 | ng    | 0.00     |
| System Monitoring Compounds   |       |      |          |      |       |          |
| 4) 2-Fluorophenol             | 6.12  | 112  | 126465   | 6.43 | ng    | -0.03    |
| 5) Phenol-d6                  | 7.79  | 99   | 160432   | 6.60 | ng    | -0.02    |
| 8) Nitrobenzene-d5            | 9.87  | 82   | 62782    | 3.45 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.74 | 330  | 34866    | 5.54 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.89 | 172  | 213670   | 3.71 | ng    | -0.01    |
| 29) Terphenyl-d14             | 20.48 | 244  | 195135   | 3.90 | ng    | -0.02    |
| Target Compounds              |       |      |          |      |       |          |
| 20) 4-Bromophenyl-phenylether | 17.01 | 248  | 801      | 0.04 | ng    | # 47     |
| 22) Pentachlorophenol         | 17.54 | 266  | 11       | 0.03 | ng    | # 72     |
| 27) Benzidine                 | 20.19 | 184  | 160      | 0.18 | ng    | # 1      |

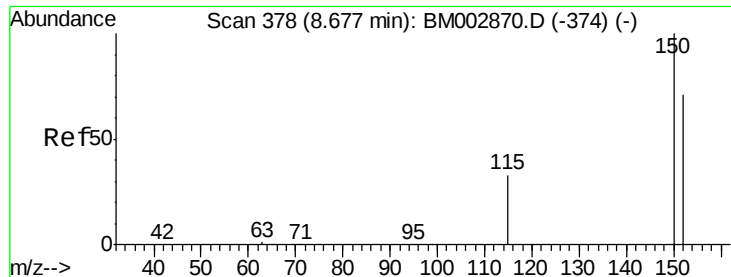
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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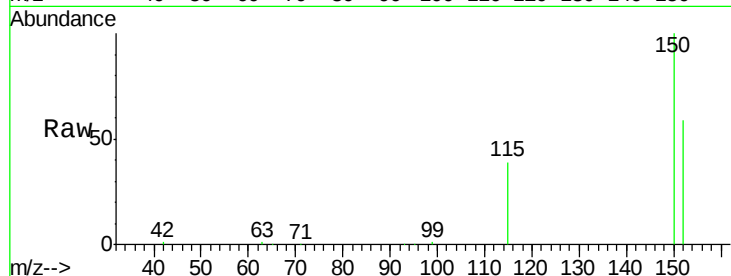


#1

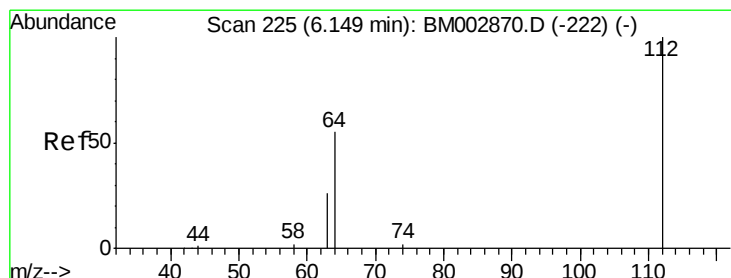
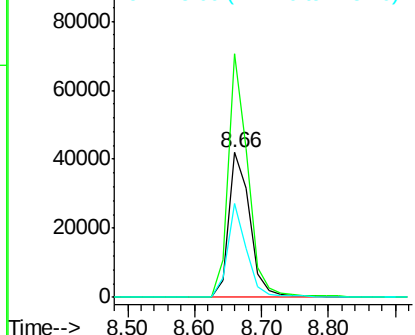
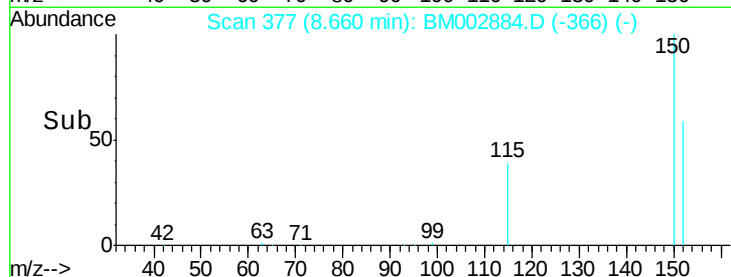
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.66 min Scan# 377  
Delta R.T. -0.02 min  
Lab File: BM002884.D  
Acq: 09 Oct 2015 14:45

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:152 Resp: 91974  
Ion Ratio Lower Upper  
152 100  
150 168.2 113.0 169.6  
115 65.0 37.9 56.9#



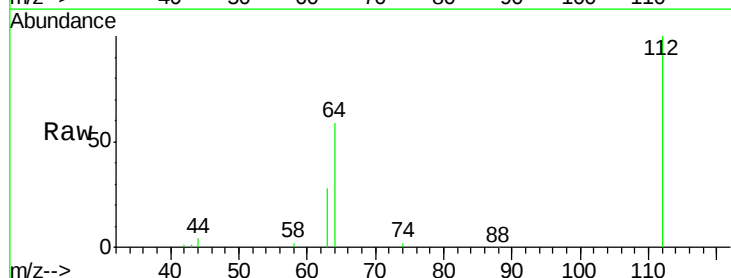
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



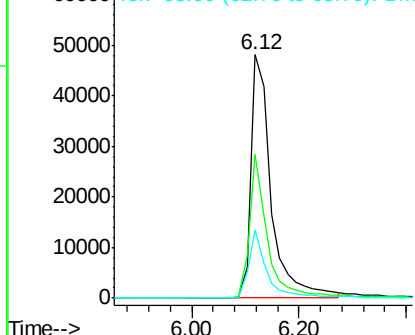
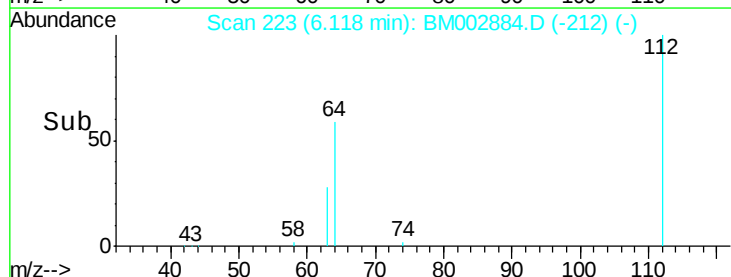
#4

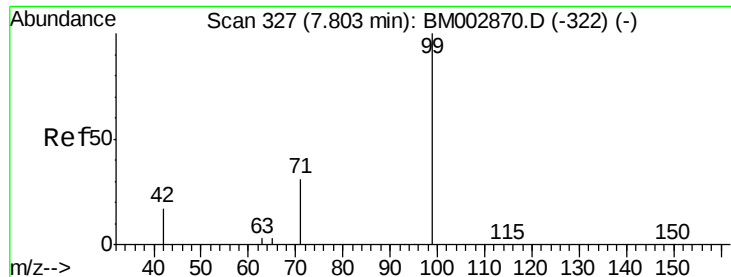
2-Fluorophenol  
Concen: 6.43 ng  
RT: 6.12 min Scan# 223  
Delta R.T. -0.03 min  
Lab File: BM002884.D  
Acq: 09 Oct 2015 14:45

Tgt Ion:112 Resp: 126465  
Ion Ratio Lower Upper  
112 100  
64 51.5 42.0 63.0  
63 24.3 20.0 30.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 63.00 (62.70 to 63.70): BM0





#5

Phenol-d6

Concen: 6.60 ng

RT: 7.79 min Scan# 326

Delta R.T. -0.02 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Instrument :

BNA\_M

ClientSampled :

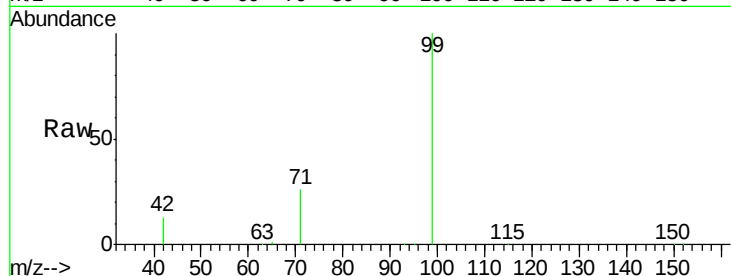
Tot Ion: 99 Resp: 160432

Ion Ratio Lower Upper

99 100

42 14.7 12.4 18.6

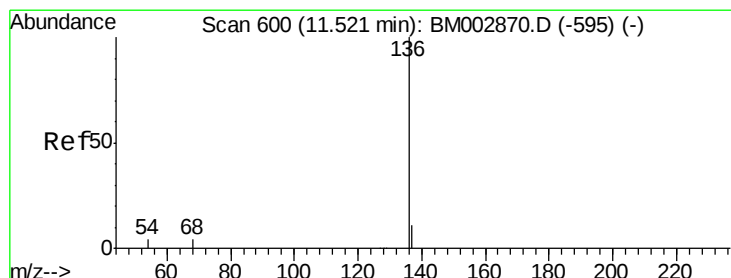
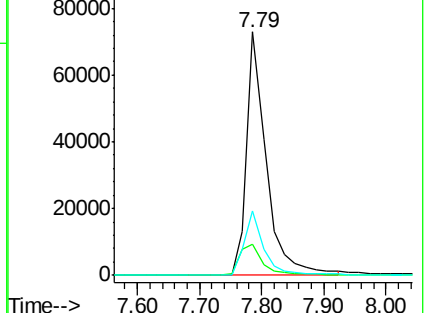
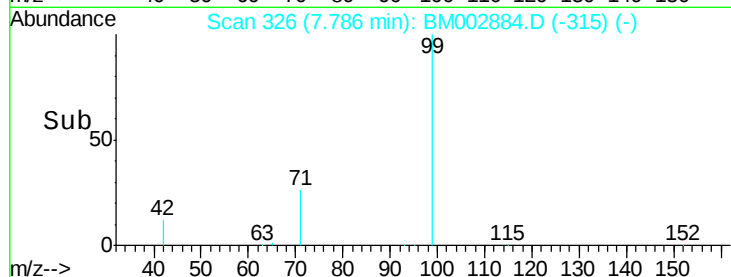
71 26.3 21.4 32.0



Abundance Ion 99.00 (98.70 to 99.70): BM002884.D (-315) (-)

Ion 42.00 (41.70 to 42.70): BM002884.D (-315) (-)

Ion 71.00 (70.70 to 71.70): BM002884.D (-315) (-)



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 11.52 min Scan# 600

Delta R.T. -0.00 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Tgt Ion: 136 Resp: 362146

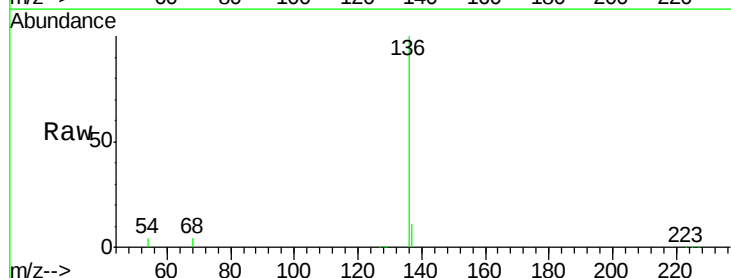
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 4.2 3.5 5.3

68 3.9 3.3 4.9

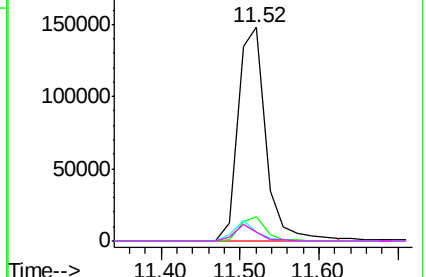
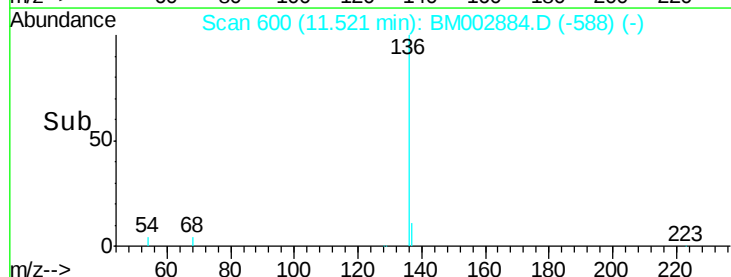


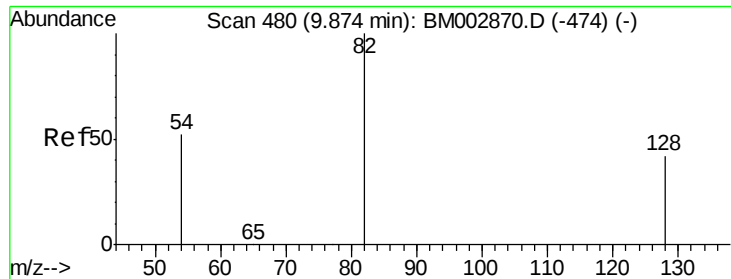
Abundance Ion 136.00 (135.70 to 136.70): BM002884.D (-588) (-)

Ion 137.00 (136.70 to 137.70): BM002884.D (-588) (-)

Ion 54.00 (53.70 to 54.70): BM002884.D (-588) (-)

Ion 68.00 (67.70 to 68.70): BM002884.D (-588) (-)





#8

Nitrobenzene-d5

Concen: 3.45 ng

RT: 9.87 min Scan# 480

Delta R.T. -0.00 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Instrument :

BNA\_M

ClientSampled :

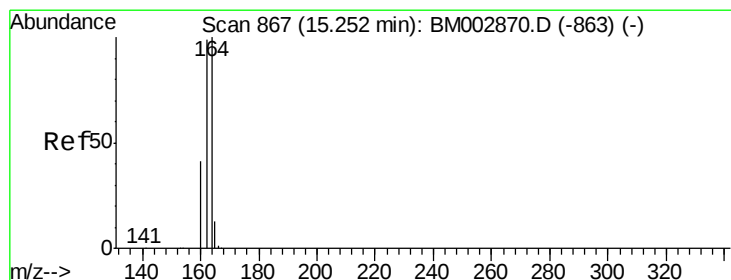
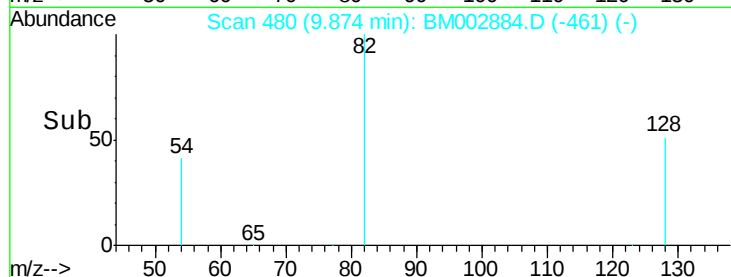
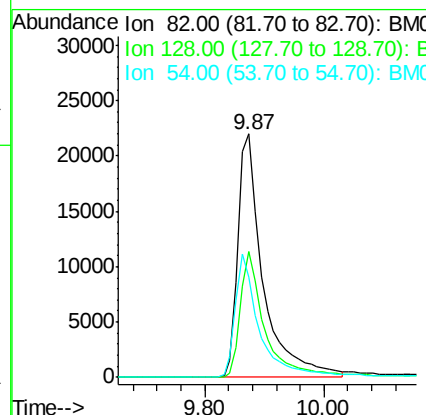
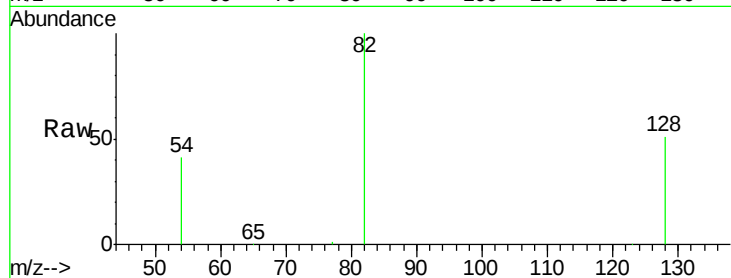
Tot Ion: 82 Resp: 62782

Ion Ratio Lower Upper

82 100

128 51.4 34.1 51.1#

54 41.3 42.6 63.8#



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 15.25 min Scan# 867

Delta R.T. -0.00 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

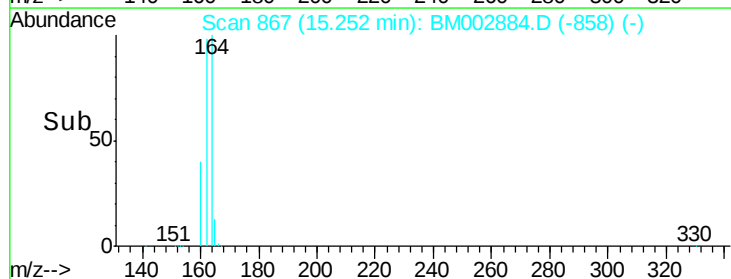
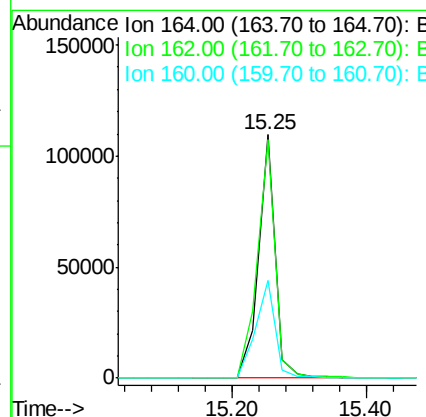
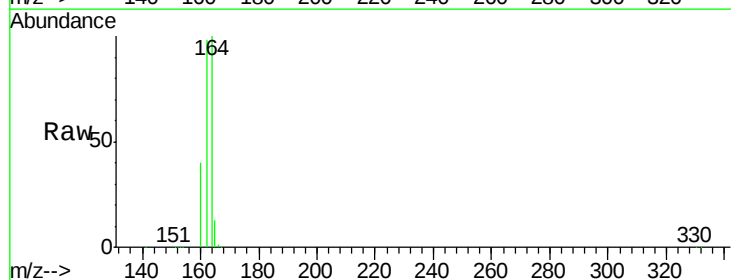
Tgt Ion: 164 Resp: 189932

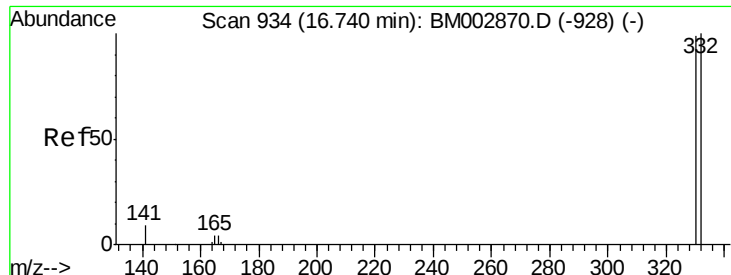
Ion Ratio Lower Upper

164 100

162 97.9 79.6 119.4

160 40.3 33.1 49.7

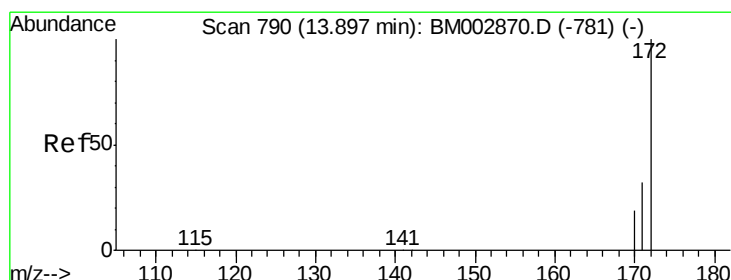
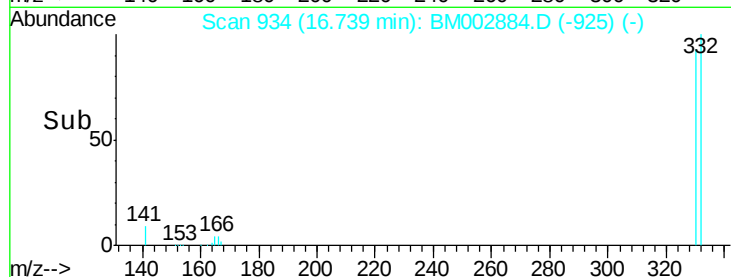
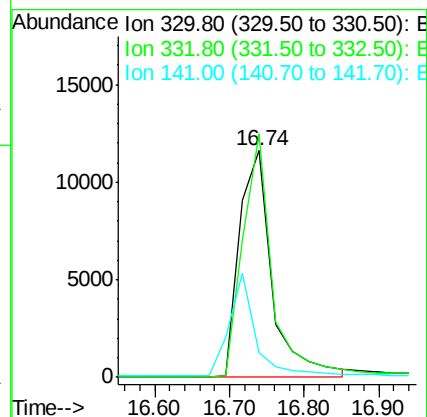
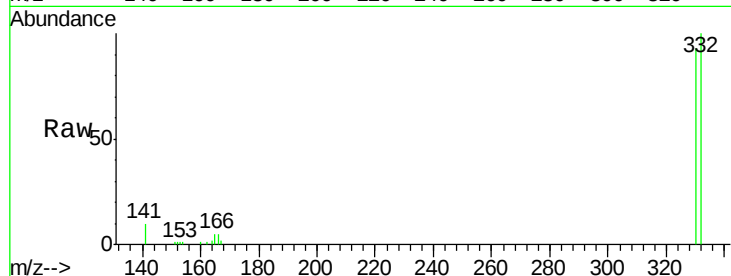




#14  
 2,4,6-Tribromophenol  
 Concen: 5.54 ng  
 RT: 16.74 min Scan# 934  
 Delta R.T. -0.00 min  
 Lab File: BM002884.D  
 Acq: 09 Oct 2015 14:45

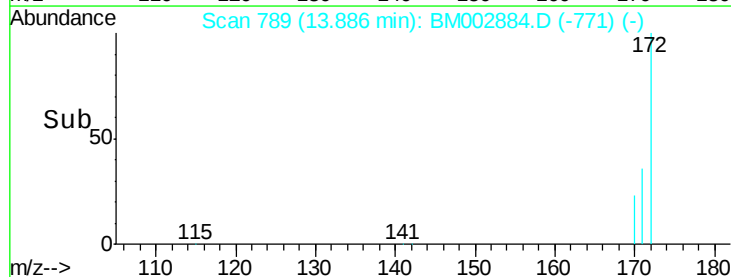
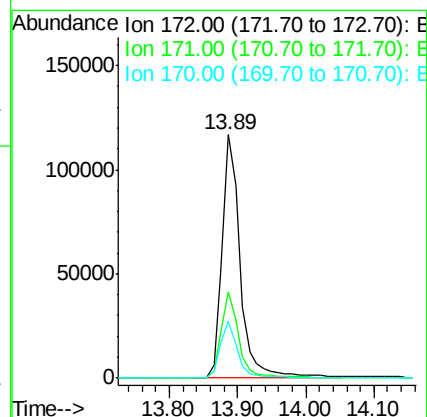
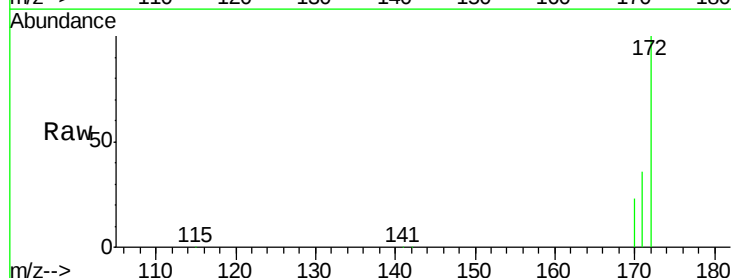
Instrument :  
 BNA\_M  
 ClientSampleId :

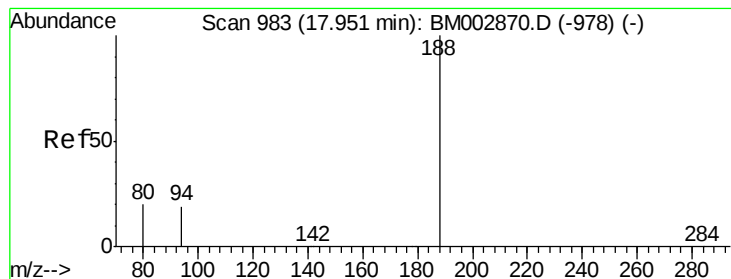
Tot Ion:330 Resp: 34866  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 76.6 115.0  
 141 0.0 0.0 0.0



#15  
 2-Fluorobiphenyl  
 Concen: 3.71 ng  
 RT: 13.89 min Scan# 789  
 Delta R.T. -0.01 min  
 Lab File: BM002884.D  
 Acq: 09 Oct 2015 14:45

Tgt Ion:172 Resp: 213670  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 26.1 39.1  
 170 23.4 15.7 23.5





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.95 min Scan# 983

Delta R.T. -0.00 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Instrument :

BNA\_M

ClientSampleId :

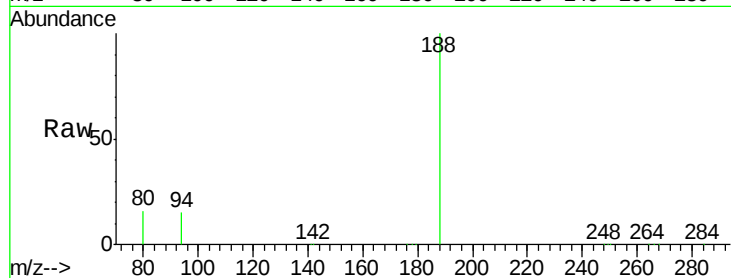
Tot Ion:188 Resp: 411292

Ion Ratio Lower Upper

188 100

94 15.5 15.2 22.8

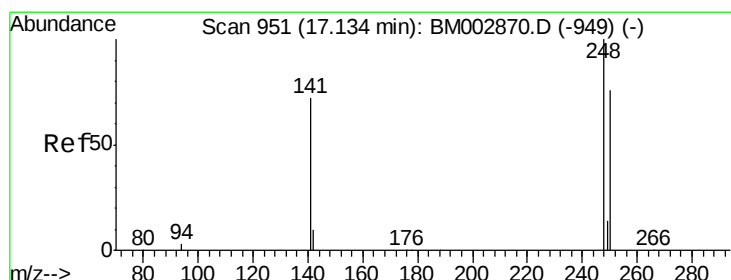
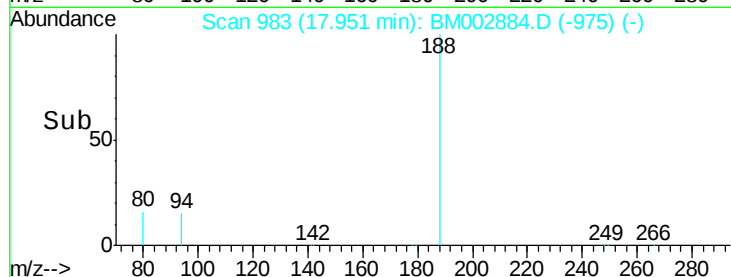
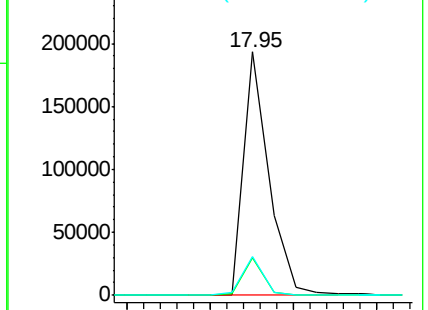
80 15.7 15.9 23.9#



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



#20

4-Bromophenyl-phenylether

Concen: 0.04 ng

RT: 17.01 min Scan# 946

Delta R.T. -0.13 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

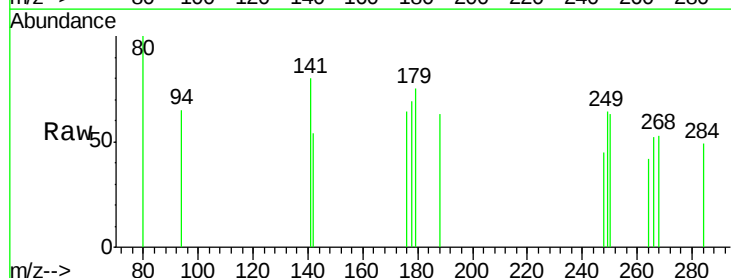
Tgt Ion:248 Resp: 801

Ion Ratio Lower Upper

248 100

250 117.4 71.4 107.2#

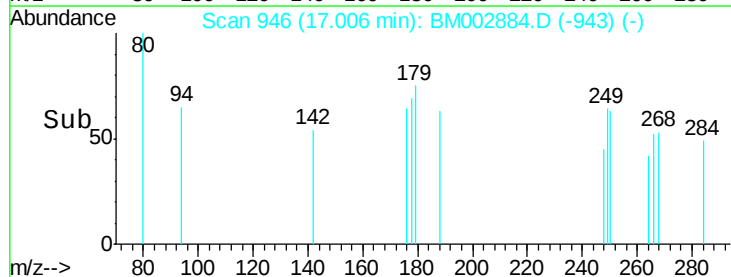
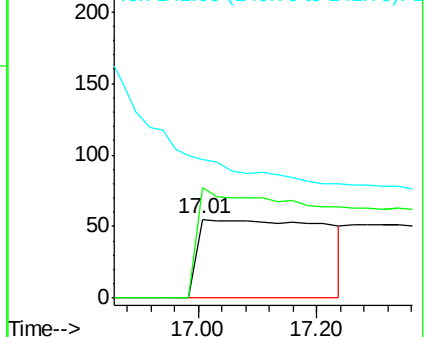
141 0.0 54.6 82.0#

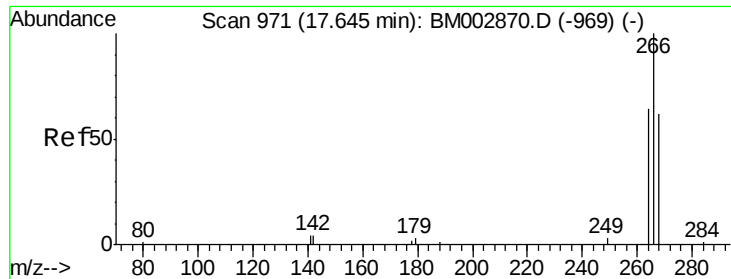


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#22

Pentachlorophenol

Concen: 0.03 ng

RT: 17.54 min Scan# 967

Delta R.T. -0.10 min

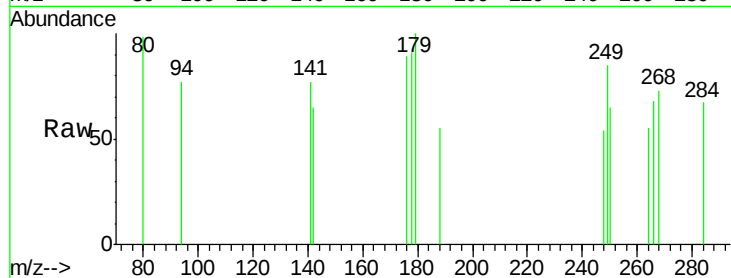
Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Instrument :

BNA\_M

ClientSampleId :



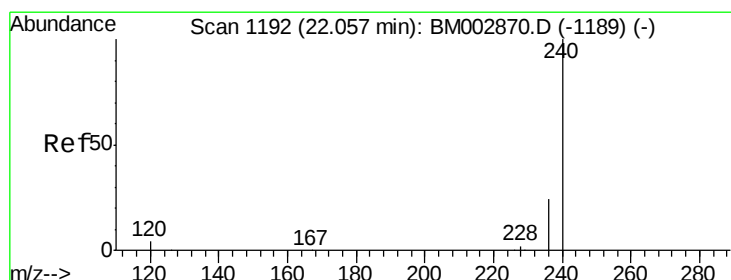
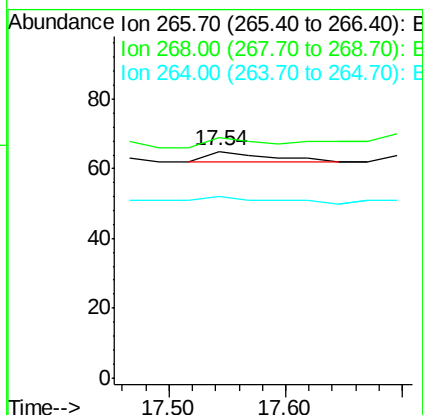
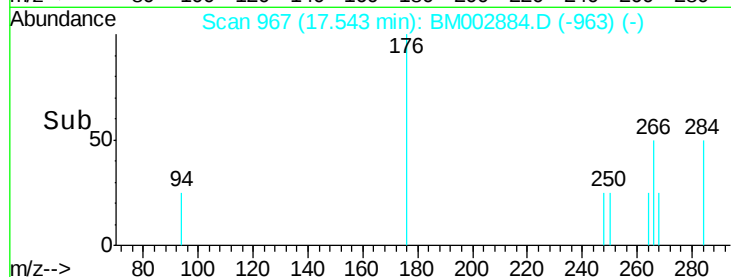
Tot Ion:266 Resp: 11

Ion Ratio Lower Upper

266 100

268 106.2 58.3 87.5#

264 80.0 54.2 81.2



#26

Chrysene-d12

Concen: 5.00 ng

RT: 22.06 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

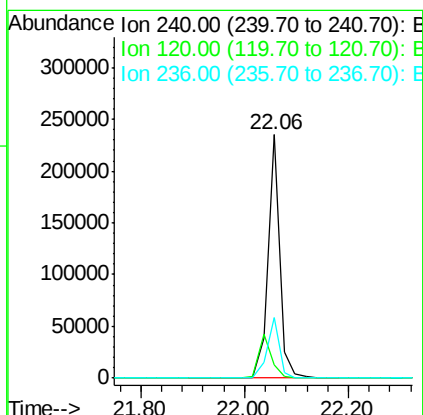
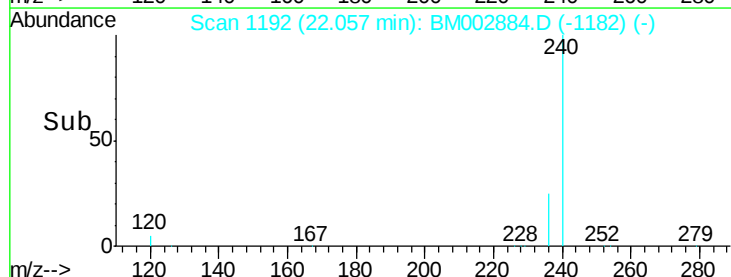
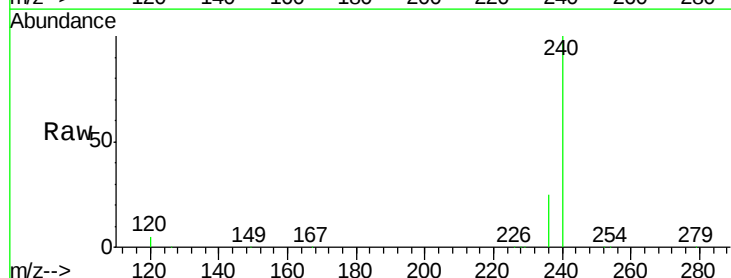
Tgt Ion:240 Resp: 375111

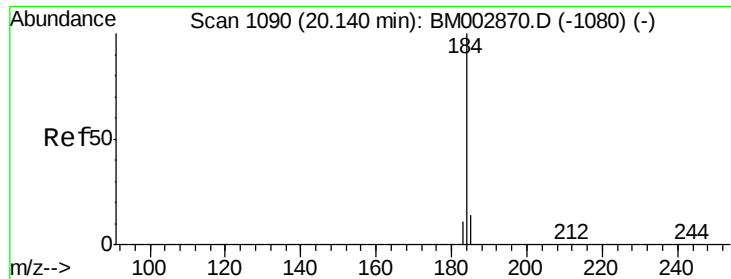
Ion Ratio Lower Upper

240 100

120 5.3 3.3 4.9#

236 25.0 19.5 29.3





#27

Benzidine

Concen: 0.18 ng

RT: 20.19 min Scan# 1093

Delta R.T. 0.05 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

Instrument :

BNA\_M

ClientSampleId :

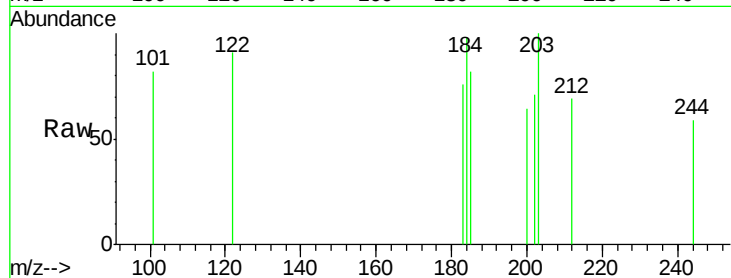
Tot Ion:184 Resp: 160

Ion Ratio Lower Upper

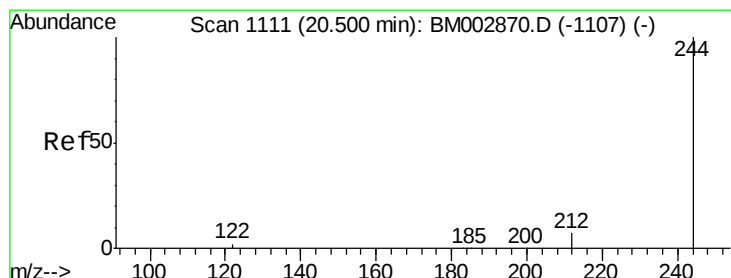
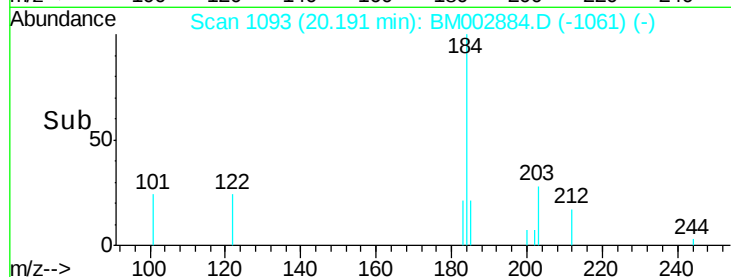
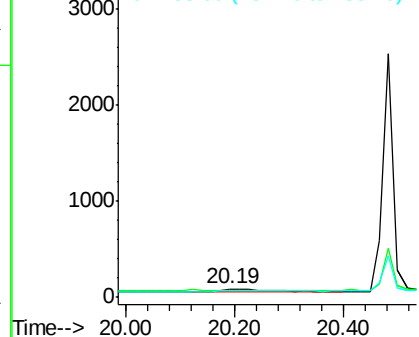
184 100

185 84.1 12.0 18.0#

183 77.3 8.9 13.3#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E



#29

Terphenyl-d14

Concen: 3.90 ng

RT: 20.48 min Scan# 1110

Delta R.T. -0.02 min

Lab File: BM002884.D

Acq: 09 Oct 2015 14:45

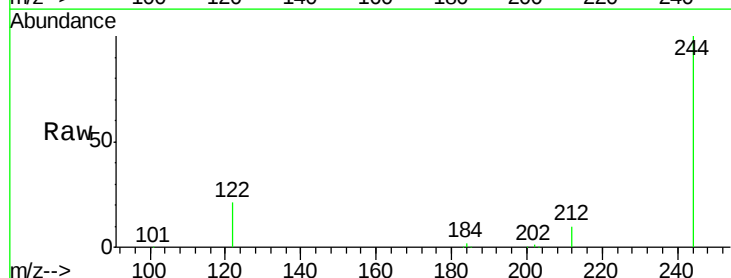
Tgt Ion:244 Resp: 195135

Ion Ratio Lower Upper

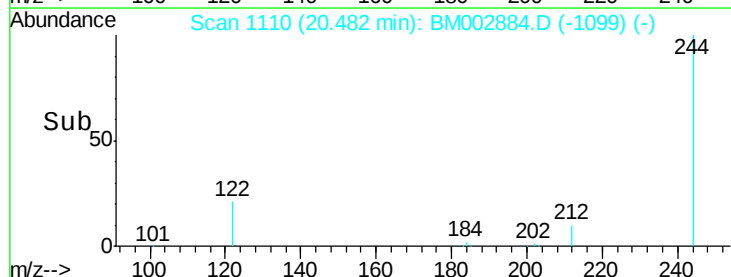
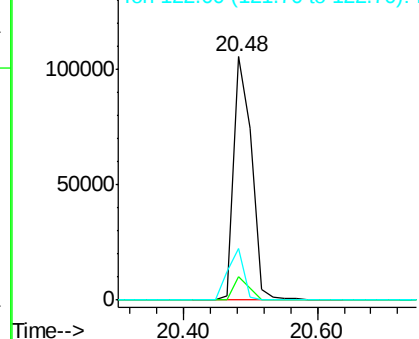
244 100

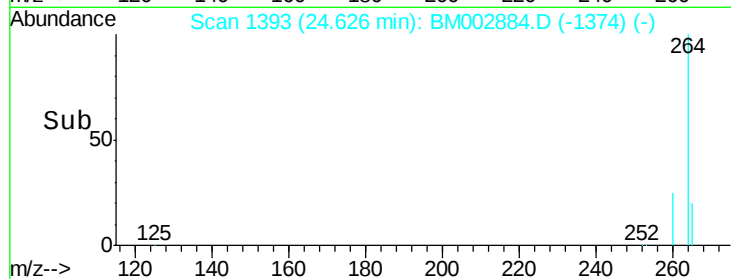
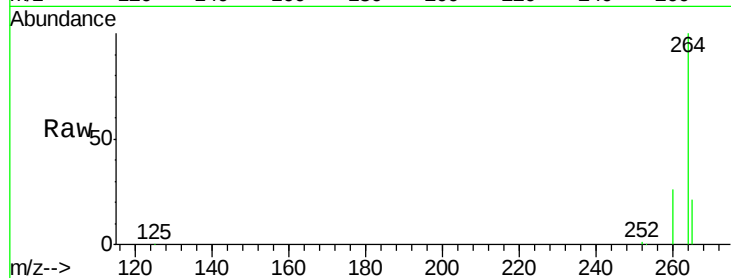
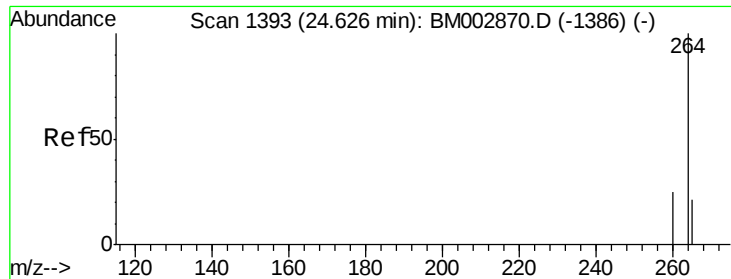
212 9.6 5.6 8.4#

122 21.1 2.2 3.2#



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#35  
 Pervlene-d12  
 Concen: 5.00 ng  
 RT: 24.63 min Scan# 1393  
 Delta R.T. -0.00 min  
 Lab File: BM002884.D  
 Acq: 09 Oct 2015 14:45

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion: 264 Resp: 305402  
 Ion Ratio Lower Upper  
 264 100  
 260 25.5 20.1 30.1  
 265 21.4 17.6 26.4

