

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM052815\  
 Data File : BM001433.D  
 Acq On : 28 May 2015 18:27  
 Operator : TP/IZ  
 Sample : PB83634BS  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB83634BS

Quant Time: May 29 03:38:41 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SIM-BM052815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 28 15:41:25 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 13063    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.16 | 136  | 46286    | 5.00 | ng    | 0.00     |
| 9) Acenaphthene-d10       | 14.07 | 164  | 29206    | 5.00 | ng    | 0.00     |
| 15) Phenanthrene-d10      | 16.81 | 188  | 67776    | 5.00 | ng    | 0.00     |
| 17) Chrysene-d12          | 21.03 | 240  | 59283    | 5.00 | ng    | 0.00     |
| 21) Perylene-d12          | 23.11 | 264  | 50697    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 2) 2-Fluorophenol           | 4.97  | 112  | 23360    | 11.65 | ng    | 0.00     |
| 3) Phenol-d6                | 6.57  | 99   | 29015    | 13.79 | ng    | -0.03    |
| 7) Nitrobenzene-d5          | 8.53  | 82   | 21345    | 8.62  | ng    | 0.00     |
| 10) 2,4,6-Tribromophenol    | 15.57 | 330  | 15644    | 12.80 | ng    | 0.00     |
| 11) 2-Fluorobiphenyl        | 12.68 | 172  | 62925    | 7.76  | ng    | 0.00     |
| 18) Terphenyl-d14           | 19.47 | 244  | 62636    | 8.50  | ng    | 0.00     |

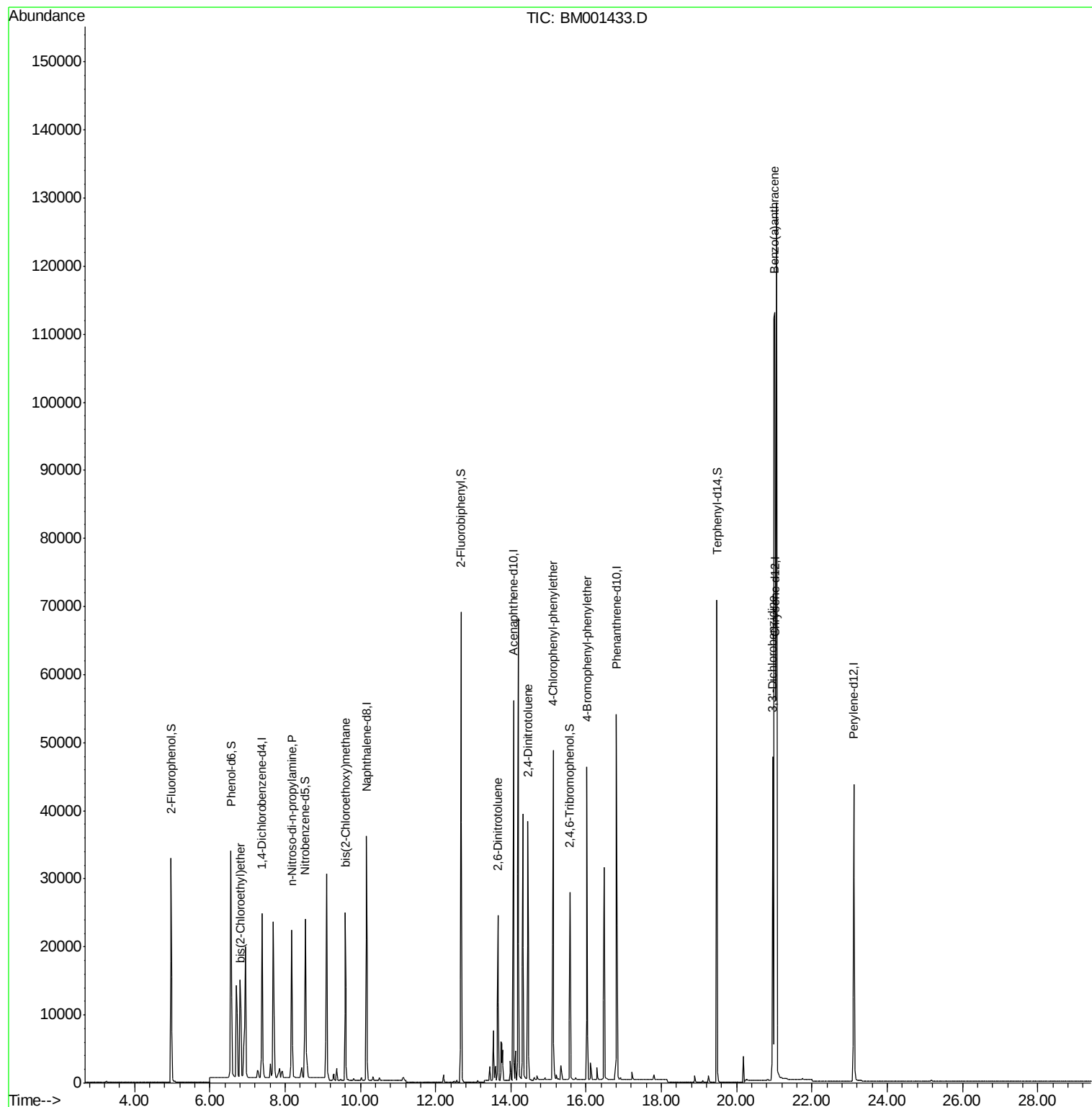
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 4) bis(2-Chloroethyl)ether     | 6.82  | 93   | 16364    | 7.43  | ng    | 78     |
| 5) n-Nitroso-di-n-propylamine  | 8.18  | 70   | 15757    | 11.02 | ng    | # 79   |
| 8) bis(2-Chloroethoxy)methane  | 9.60  | 93   | 26056    | 8.21  | ng    | 99     |
| 12) 2,6-Dinitrotoluene         | 13.65 | 165  | 15051    | 8.28  | ng    | # 44   |
| 13) 2,4-Dinitrotoluene         | 14.45 | 165  | 22334    | 10.48 | ng    | # 68   |
| 14) 4-Chlorophenyl-phenylether | 15.12 | 204  | 37716    | 8.42  | ng    | 97     |
| 16) 4-Bromophenyl-phenylether  | 16.02 | 248  | 23279    | 8.70  | ng    | 92     |
| 19) Benzo(a)anthracene         | 21.00 | 228  | 124055   | 8.37  | ng    | # 85   |
| 20) 3,3'-Dichlorobenzidine     | 20.95 | 252  | 43602    | 8.65  | ng    | # 74   |

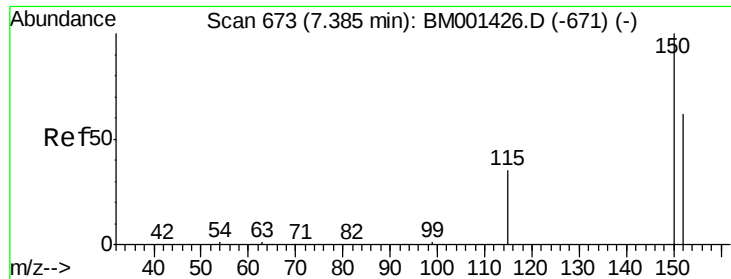
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.38 min Scan# 673

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

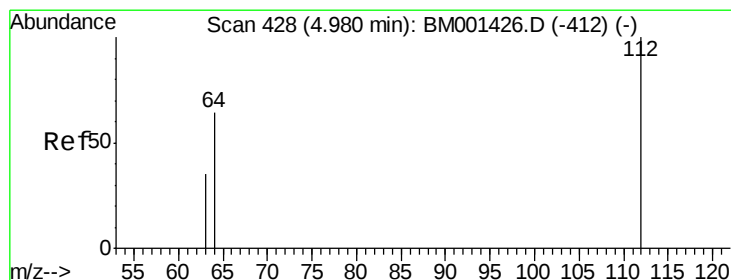
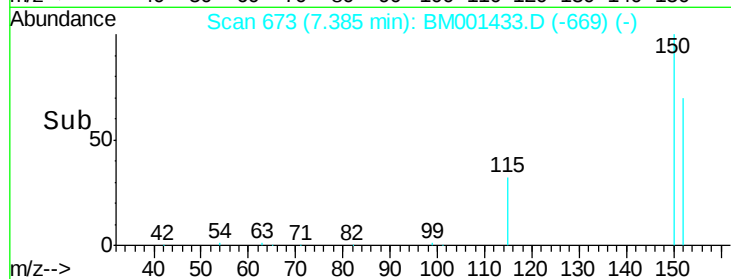
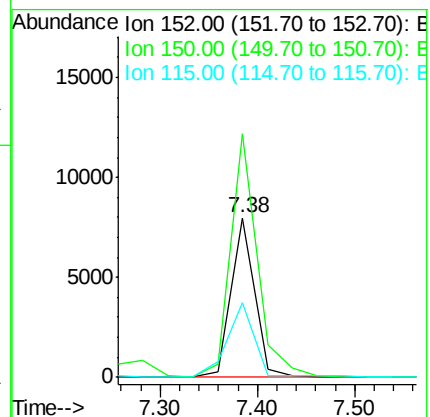
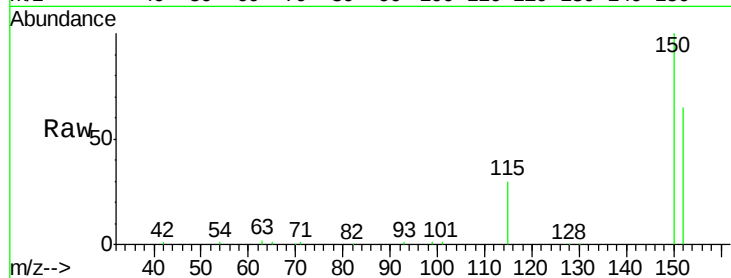
Tgt Ion:152 Resp: 13063

Ion Ratio Lower Upper

152 100

150 152.9 128.4 192.6

115 46.5 45.6 68.4



#2

2-Fluorophenol

Concen: 11.65 ng

RT: 4.97 min Scan# 427

Delta R.T. -0.01 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

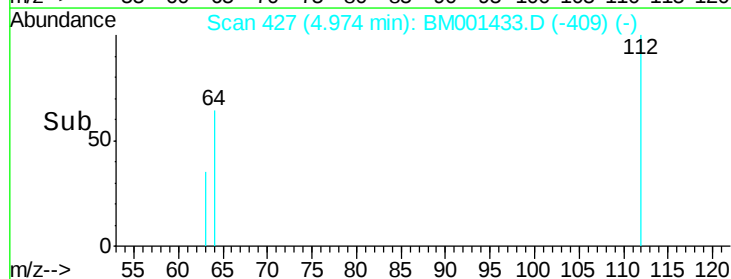
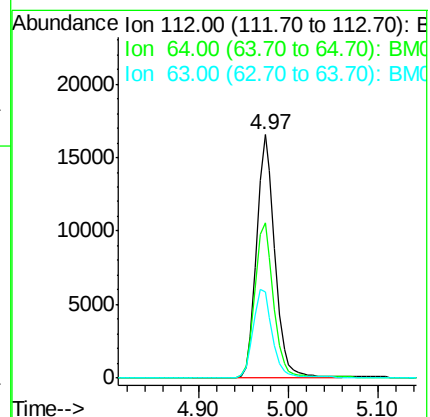
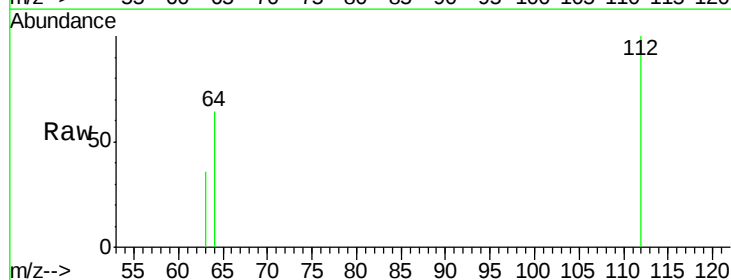
Tgt Ion:112 Resp: 23360

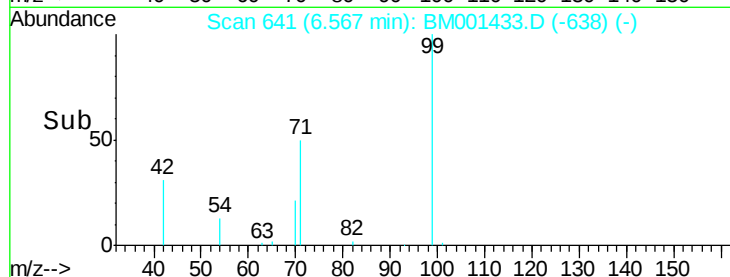
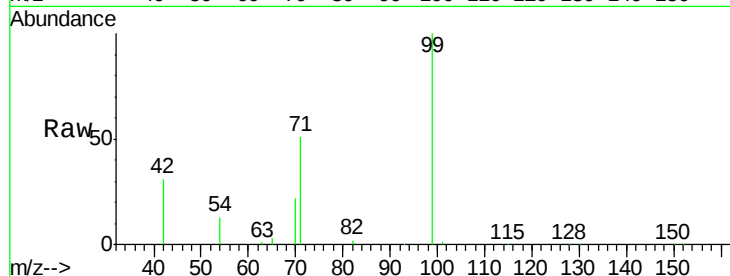
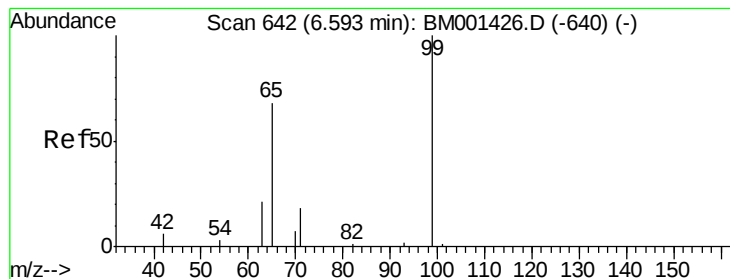
Ion Ratio Lower Upper

112 100

64 63.8 52.1 78.1

63 35.6 30.2 45.2





#3

Phenol-d6

Concen: 13.79 ng

RT: 6.57 min Scan# 641

Delta R.T. -0.03 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

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PB83634BS

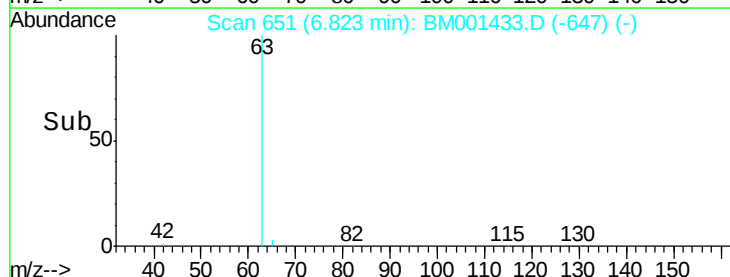
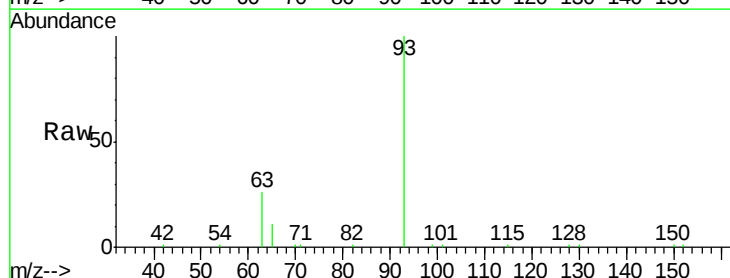
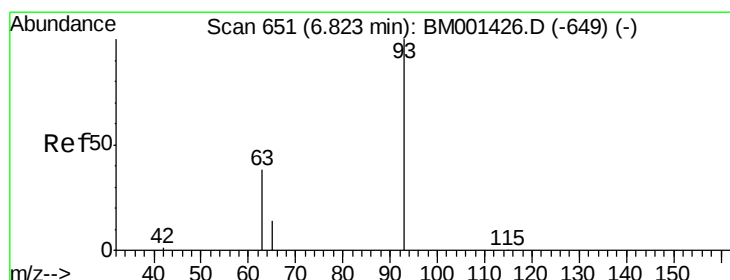
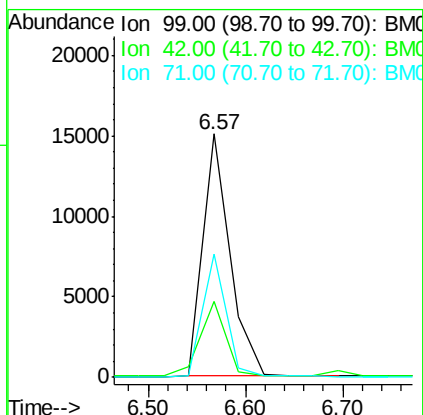
Tgt Ion: 99 Resp: 29015

Ion Ratio Lower Upper

99 100

42 31.0 13.7 20.5#

71 50.5 19.8 29.6#



#4

bis(2-Chloroethyl)ether

Concen: 7.43 ng

RT: 6.82 min Scan# 651

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

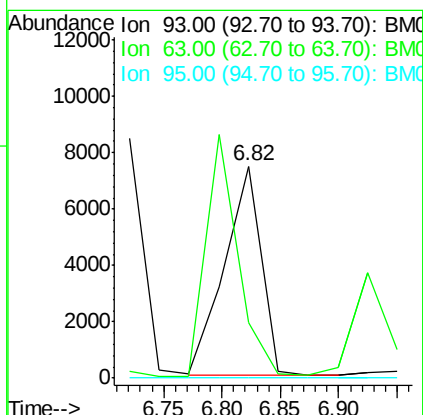
Tgt Ion: 93 Resp: 16364

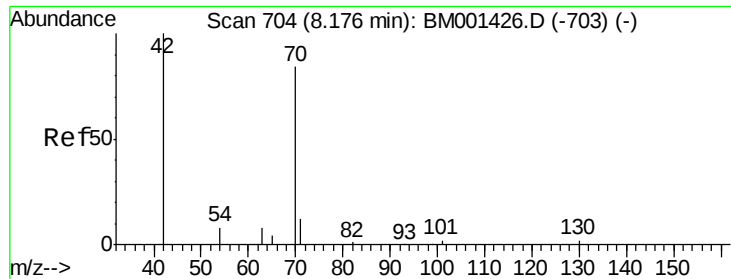
Ion Ratio Lower Upper

93 100

63 26.4 20.0 60.0

95 0.0 0.0 20.0





#5

n-Nitroso-di-n-propylamine

Concen: 11.02 ng

RT: 8.18 min Scan# 704

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

Tgt Ion: 70 Resp: 15757

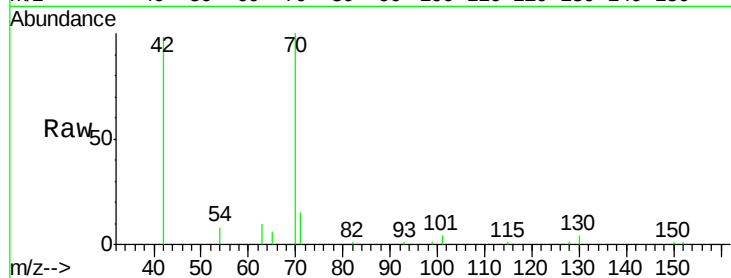
Ion Ratio Lower Upper

70 100

42 97.6 97.8 146.6#

101 4.5 8.2 12.2#

130 4.0 7.5 11.3#

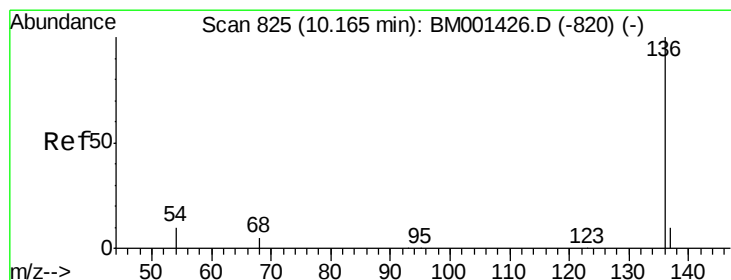
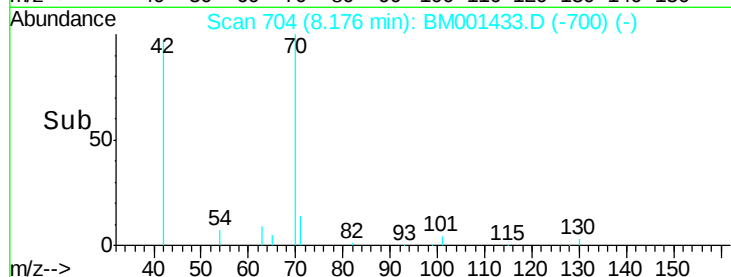
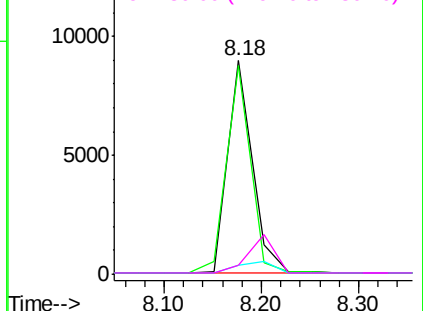


Abundance Ion 70.00 (69.70 to 70.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.16 min Scan# 825

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Tgt Ion: 136 Resp: 46286

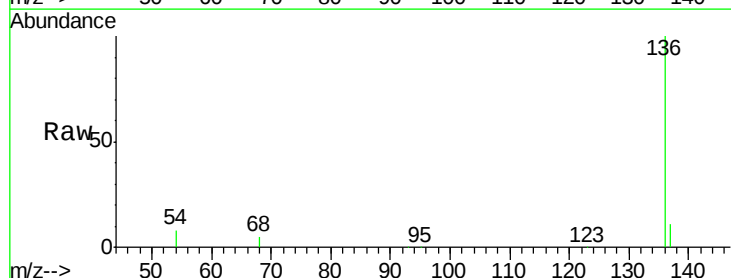
Ion Ratio Lower Upper

136 100

137 10.9 8.3 12.5

54 8.3 8.2 12.4

68 4.6 4.5 6.7

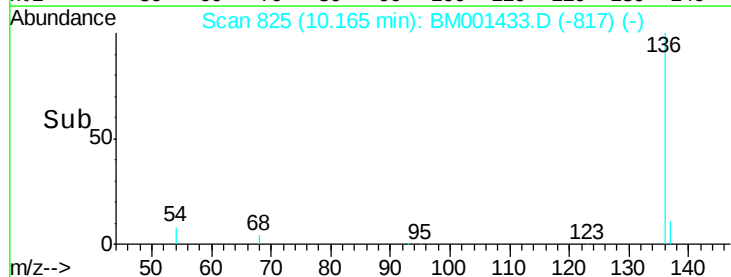
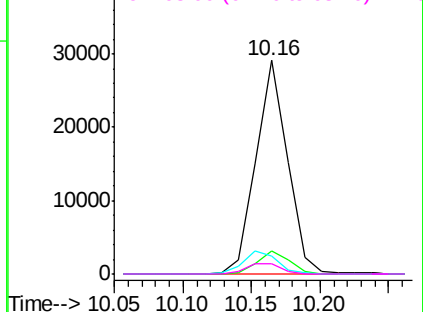


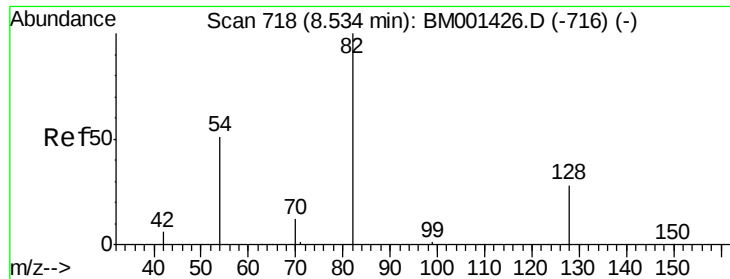
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM0

Ion 68.00 (67.70 to 68.70): BM0





#7

Nitrobenzene-d5

Concen: 8.62 ng

RT: 8.53 min Scan# 718

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

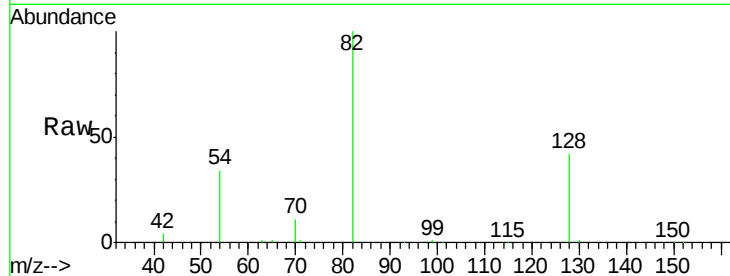
Tgt Ion: 82 Resp: 21345

Ion Ratio Lower Upper

82 100

128 42.2 24.4 36.6#

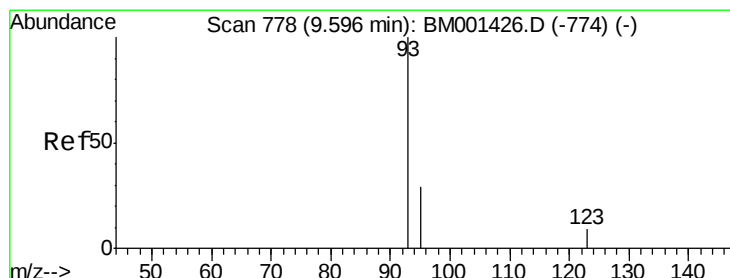
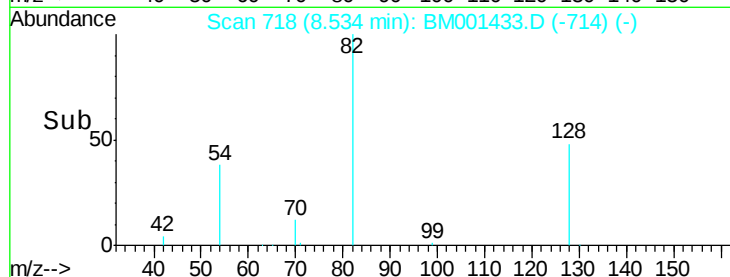
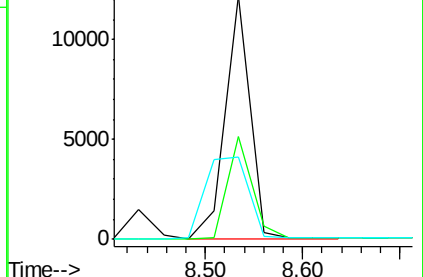
54 33.6 42.3 63.5#



Abundance Ion 82.00 (81.70 to 82.70): BM001426.D (-716) (-)

Ion 128.00 (127.70 to 128.70): BM001426.D (-716) (-)

Ion 54.00 (53.70 to 54.70): BM001426.D (-716) (-)



#8

bis(2-Chloroethoxy)methane

Concen: 8.21 ng

RT: 9.60 min Scan# 778

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

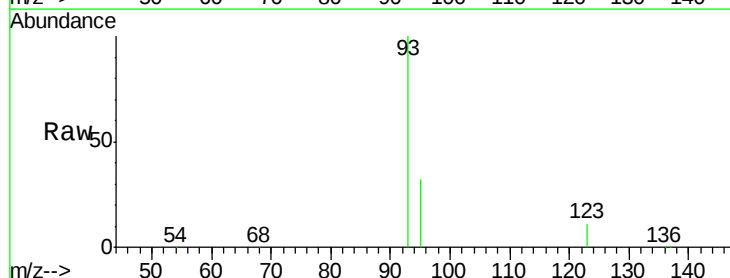
Tgt Ion: 93 Resp: 26056

Ion Ratio Lower Upper

93 100

95 31.7 25.3 37.9

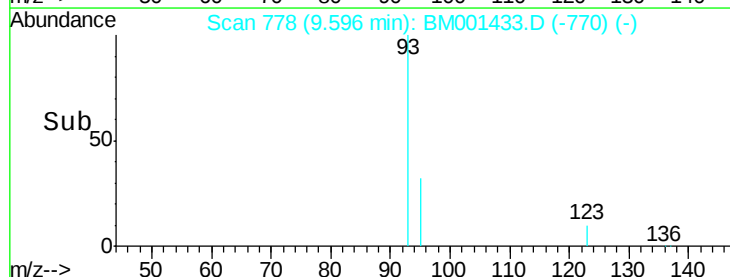
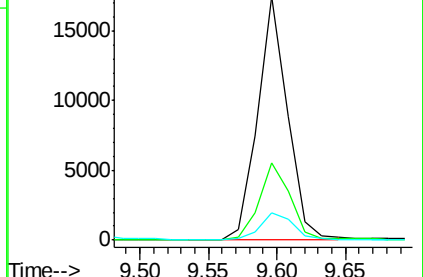
123 11.0 10.2 15.2

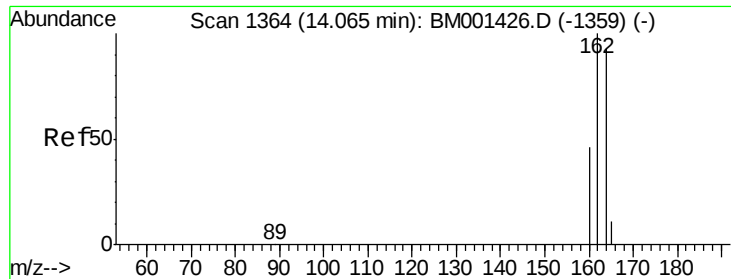


Abundance Ion 93.00 (92.70 to 93.70): BM001426.D (-774) (-)

Ion 95.00 (94.70 to 95.70): BM001426.D (-774) (-)

Ion 123.00 (122.70 to 123.70): BM001426.D (-774) (-)





#9

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.07 min Scan# 1364

Delta R.T. 0.00 min

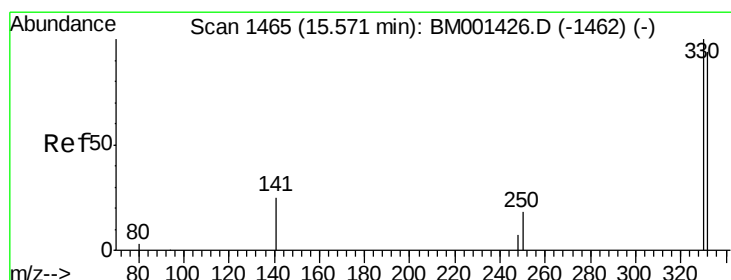
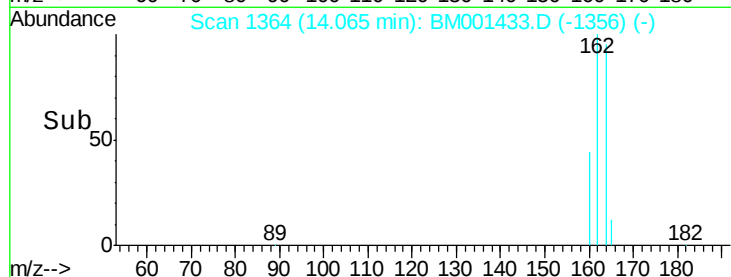
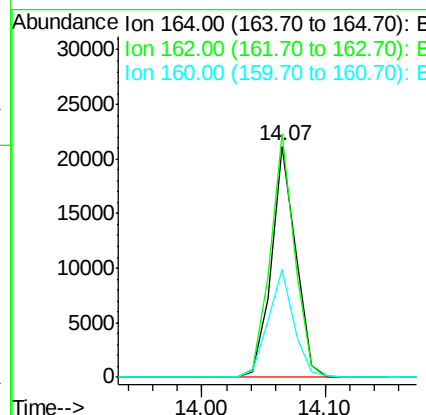
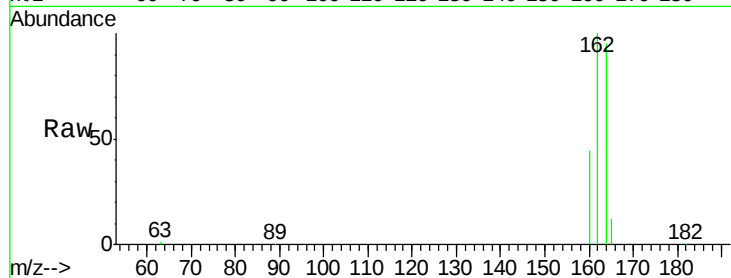
Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :  
BNA\_M  
ClientSampleId :  
PB83634BS

Tgt Ion:164 Resp: 29206

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 105.4 | 86.2  | 129.2 |
| 160 | 46.6  | 39.4  | 59.2  |



#10

2,4,6-Tribromophenol

Concen: 12.80 ng

RT: 15.57 min Scan# 1465

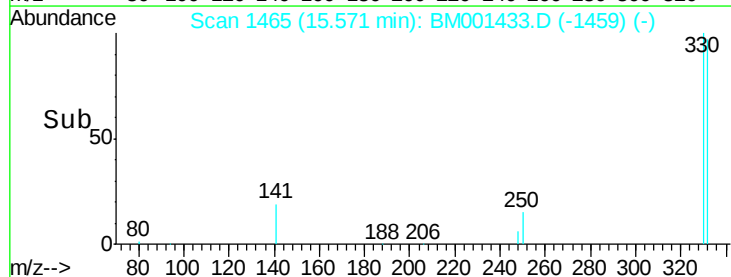
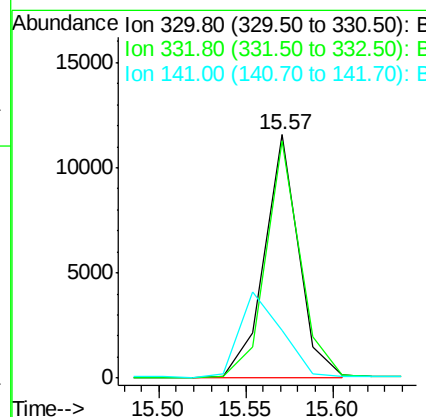
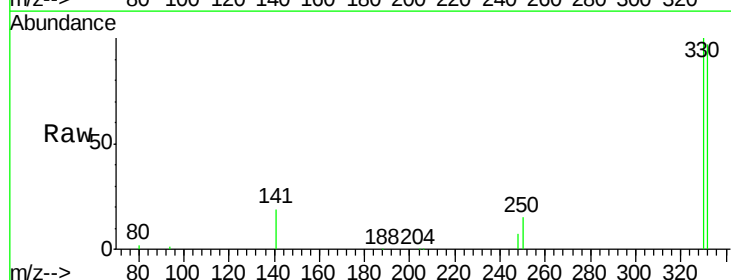
Delta R.T. 0.00 min

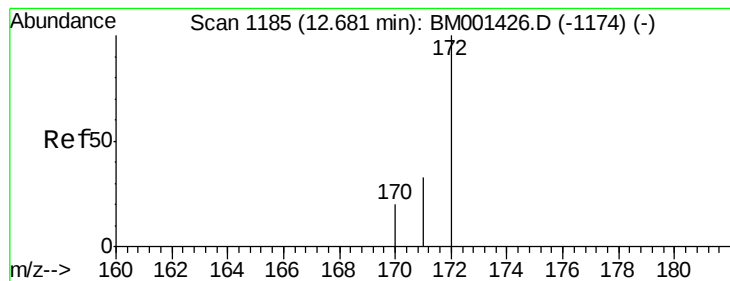
Lab File: BM001433.D

Acq: 28 May 2015 18:27

Tgt Ion:330 Resp: 15644

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.9  | 76.3  | 114.5 |
| 141 | 43.2  | 35.0  | 52.4  |

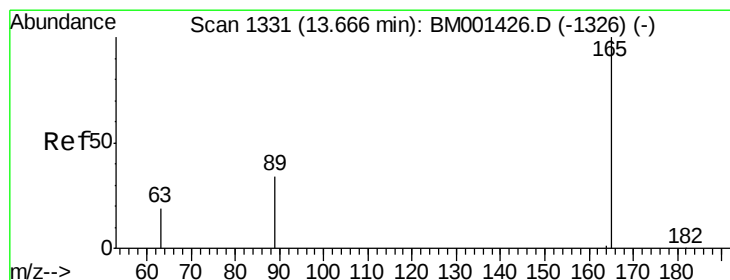
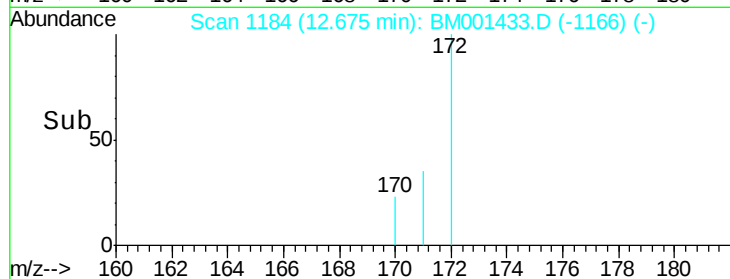
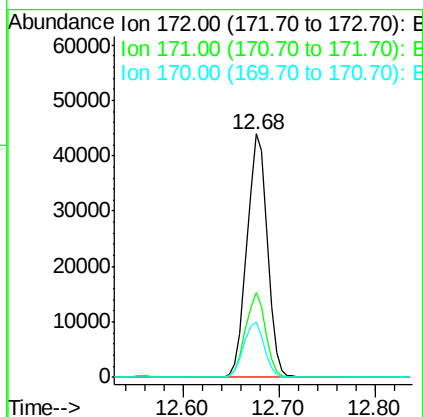
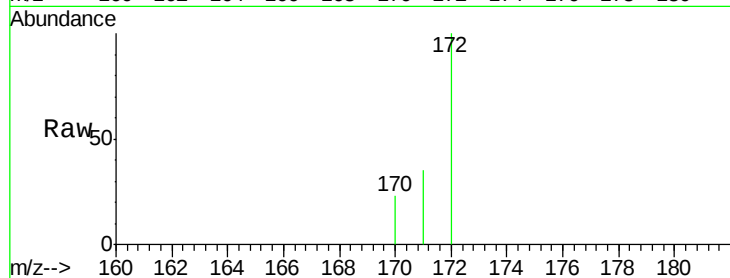




#11  
2-Fluorobiphenyl  
Concen: 7.76 ng  
RT: 12.68 min Scan# 1184  
Delta R.T. -0.01 min  
Lab File: BM001433.D  
Acq: 28 May 2015 18:27

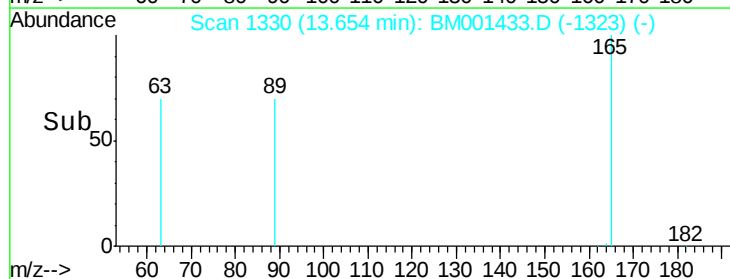
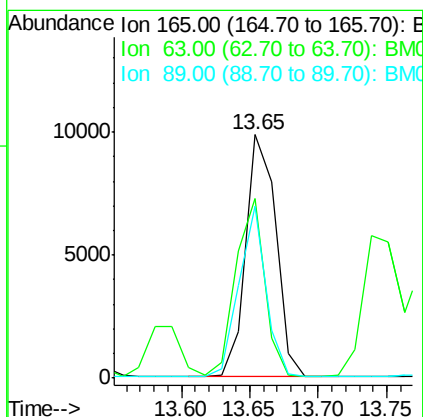
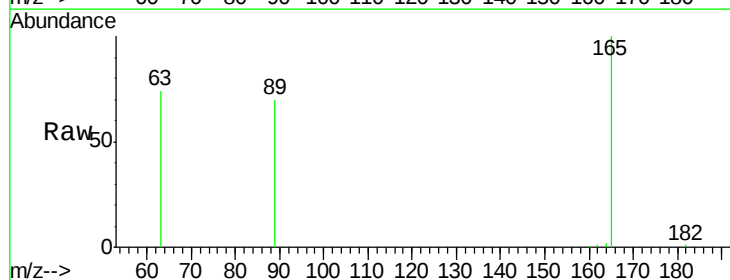
Instrument :  
BNA\_M  
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PB83634BS

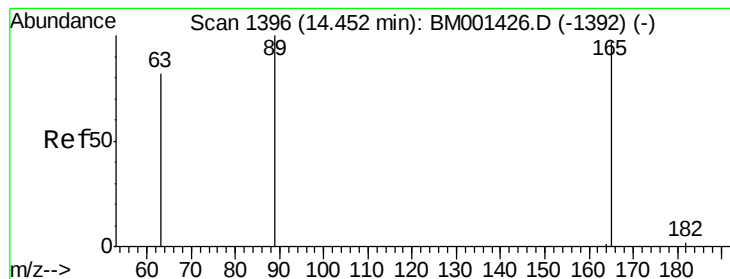
Tgt Ion:172 Resp: 62925  
Ion Ratio Lower Upper  
172 100  
171 34.7 26.9 40.3  
170 22.7 17.1 25.7



#12  
2,6-Dinitrotoluene  
Concen: 8.28 ng  
RT: 13.65 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BM001433.D  
Acq: 28 May 2015 18:27

Tgt Ion:165 Resp: 15051  
Ion Ratio Lower Upper  
165 100  
63 74.0 29.1 43.7#  
89 70.5 32.1 48.1#





#13

2,4-Dinitrotoluene

Concen: 10.48 ng

RT: 14.45 min Scan# 1396

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

Tgt Ion:165 Resp: 22334

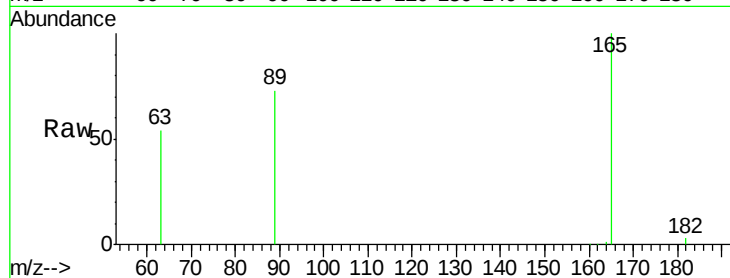
Ion Ratio Lower Upper

165 100

63 53.9 70.6 105.8#

89 72.8 82.4 123.6#

182 2.8 7.5 11.3#

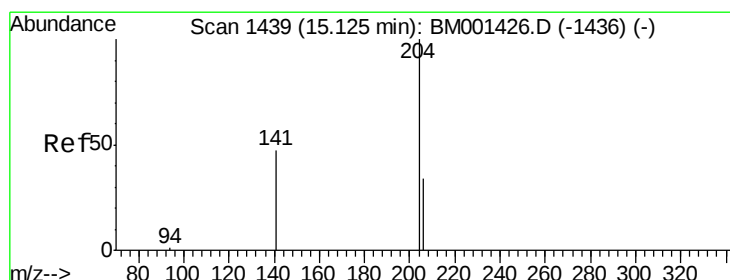
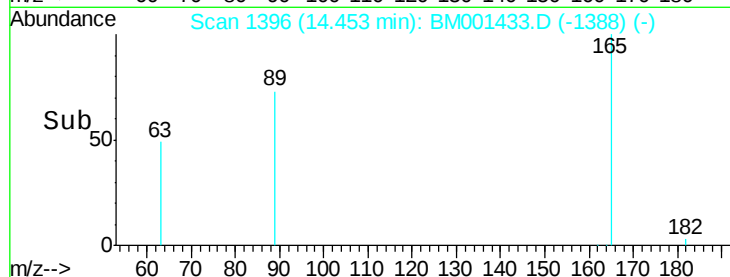
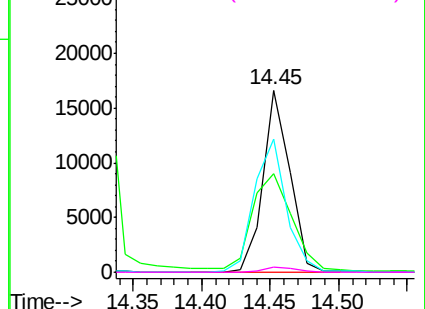


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 89.00 (88.70 to 89.70): BM0

Ion 182.00 (181.70 to 182.70): E



#14

4-Chlorophenyl-phenylether

Concen: 8.42 ng

RT: 15.12 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

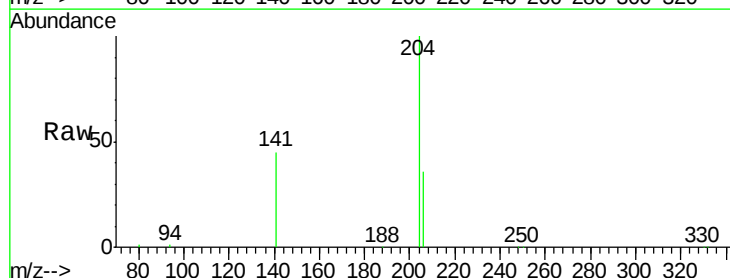
Tgt Ion:204 Resp: 37716

Ion Ratio Lower Upper

204 100

206 35.8 27.8 41.8

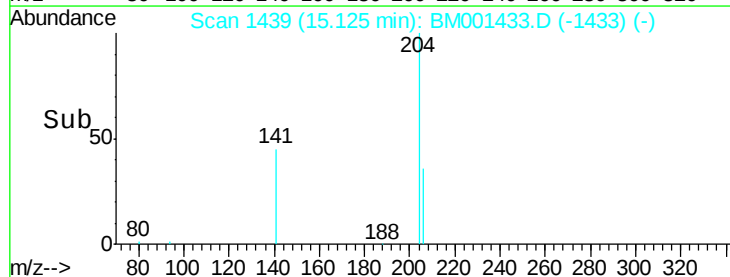
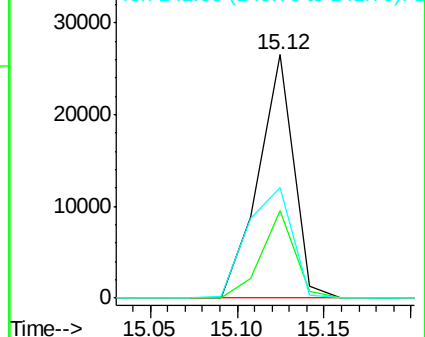
141 45.2 38.2 57.4

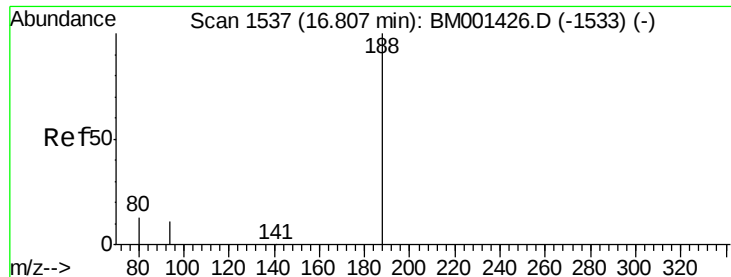


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#15

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.81 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

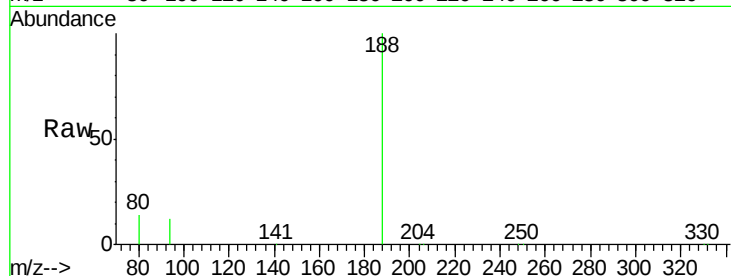
Tgt Ion:188 Resp: 67776

Ion Ratio Lower Upper

188 100

94 11.7 9.0 13.4

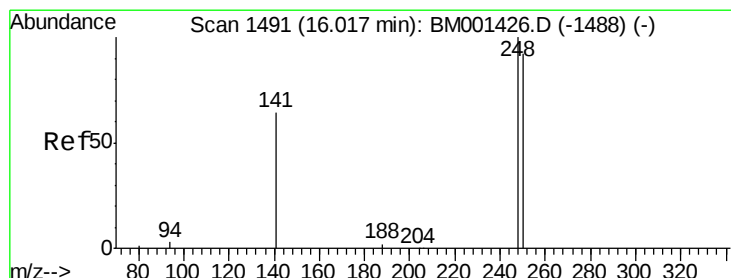
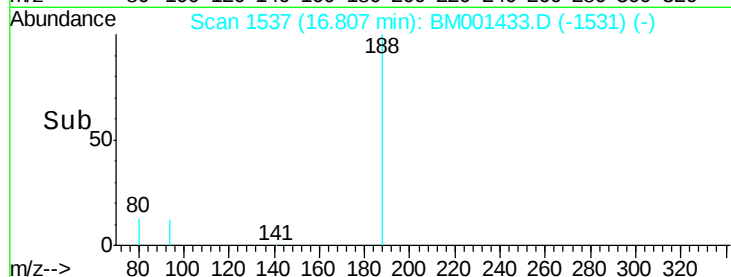
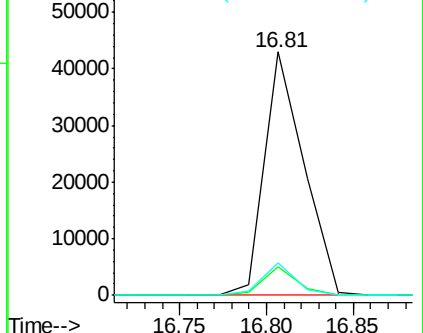
80 13.5 10.6 15.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#16

4-Bromophenyl-phenylether

Concen: 8.70 ng

RT: 16.02 min Scan# 1491

Delta R.T. 0.00 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

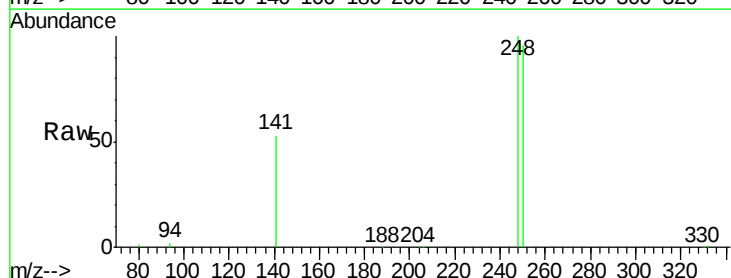
Tgt Ion:248 Resp: 23279

Ion Ratio Lower Upper

248 100

250 95.9 74.1 111.1

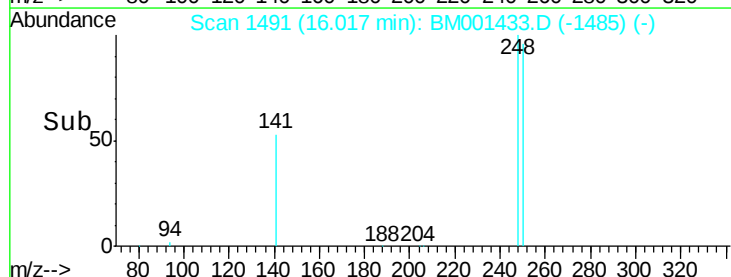
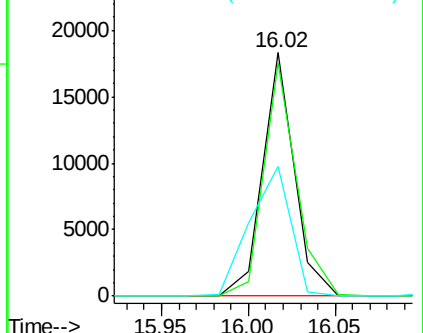
141 53.4 52.4 78.6

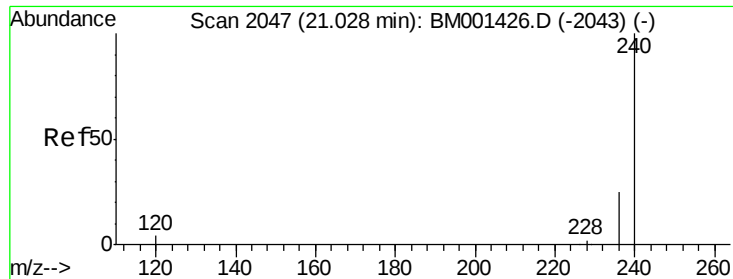


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

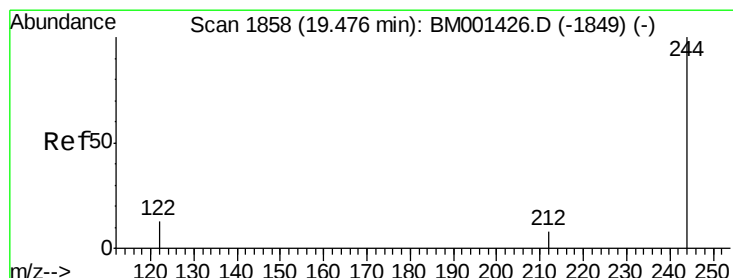
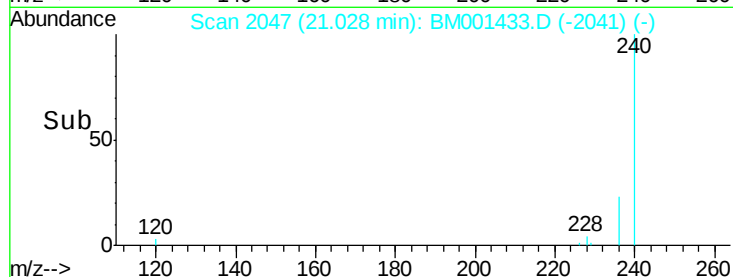
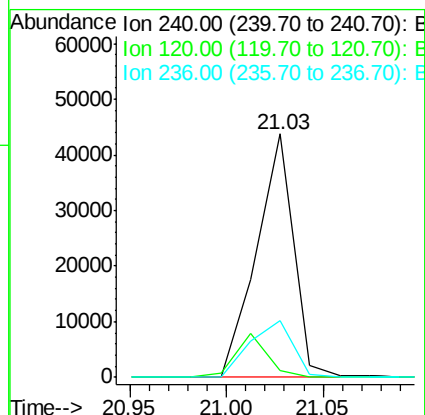
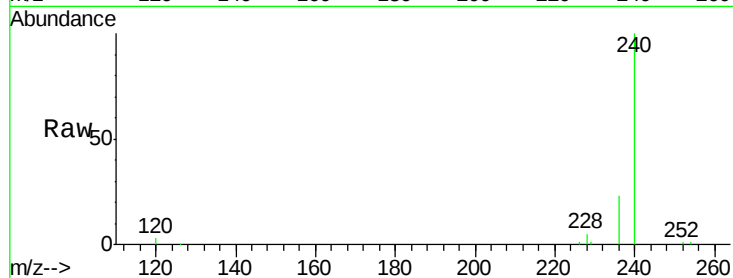




#17  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.03 min Scan# 2047  
 Delta R.T. 0.00 min  
 Lab File: BM001433.D  
 Acq: 28 May 2015 18:27

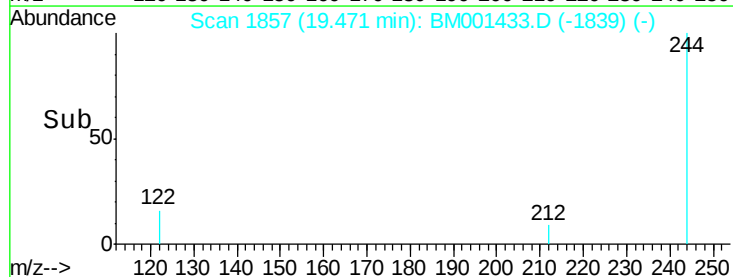
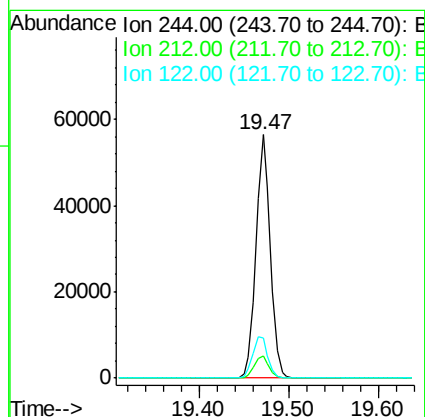
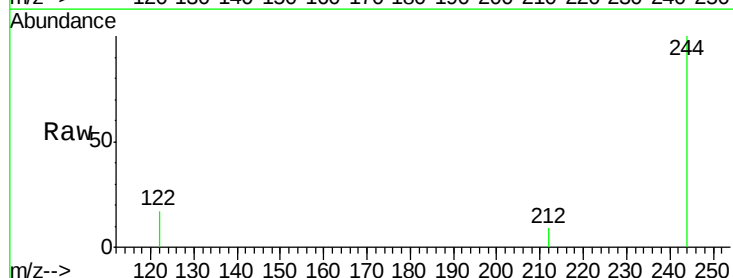
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB83634BS

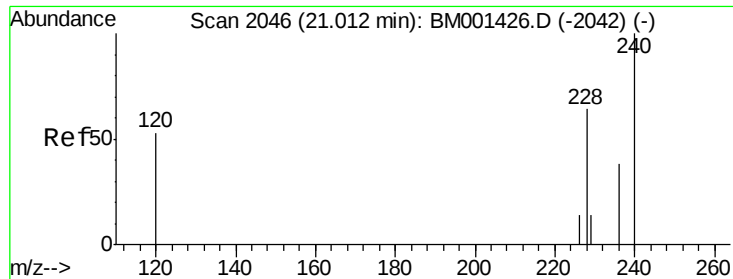
Tgt Ion:240 Resp: 59283  
 Ion Ratio Lower Upper  
 240 100  
 120 3.0 3.2 4.8#  
 236 23.2 19.8 29.6



#18  
 Terphenyl-d14  
 Concen: 8.50 ng  
 RT: 19.47 min Scan# 1857  
 Delta R.T. -0.01 min  
 Lab File: BM001433.D  
 Acq: 28 May 2015 18:27

Tgt Ion:244 Resp: 62636  
 Ion Ratio Lower Upper  
 244 100  
 212 9.3 7.4 11.2  
 122 16.5 11.4 17.0





#19

Benzo(a)anthracene

Concen: 8.37 ng

RT: 21.00 min Scan# 2045

Delta R.T. -0.02 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

Instrument :

BNA\_M

ClientSampleId :

PB83634BS

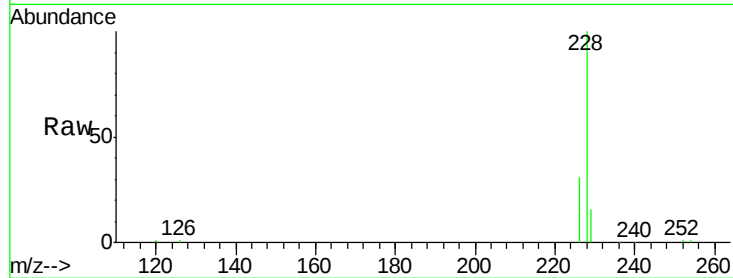
Tgt Ion:228 Resp: 124055

Ion Ratio Lower Upper

228 100

226 30.9 18.2 27.2#

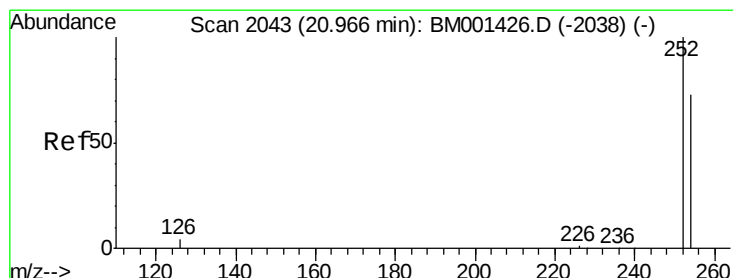
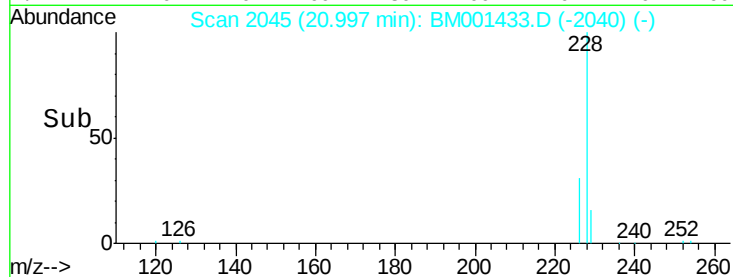
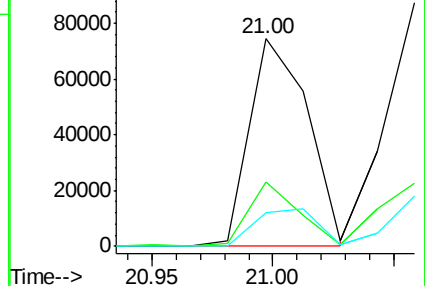
229 16.4 17.8 26.8#



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



#20

3,3'-Dichlorobenzidine

Concen: 8.65 ng

RT: 20.95 min Scan# 2042

Delta R.T. -0.01 min

Lab File: BM001433.D

Acq: 28 May 2015 18:27

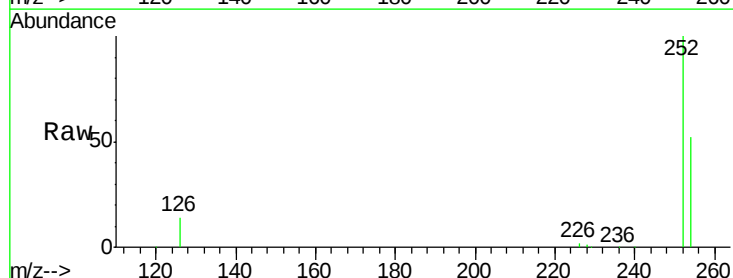
Tgt Ion:252 Resp: 43602

Ion Ratio Lower Upper

252 100

254 51.6 59.0 88.6#

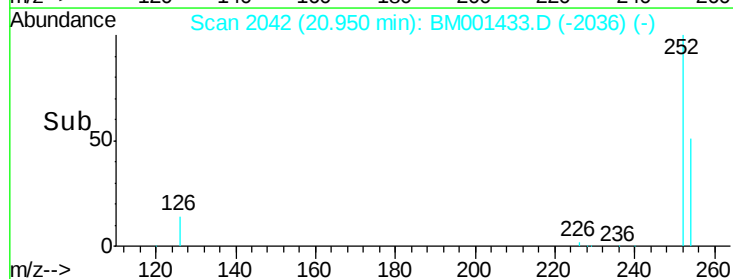
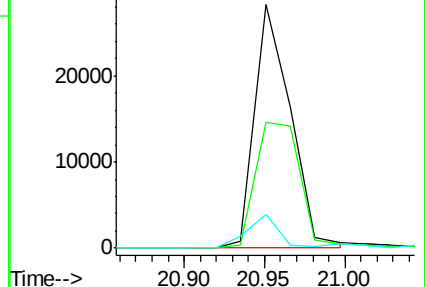
126 13.7 5.9 8.9#

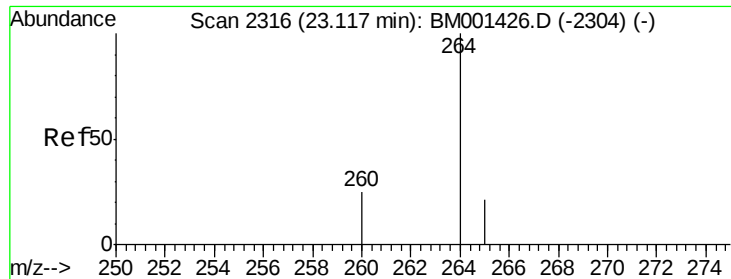


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#21  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.11 min Scan# 2315  
Delta R.T. -0.01 min  
Lab File: BM001433.D  
Acq: 28 May 2015 18:27

Instrument :  
BNA\_M  
ClientSampleId :  
PB83634BS

Tgt Ion: 264 Resp: 50697  
Ion Ratio Lower Upper  
264 100  
260 25.3 20.1 30.1  
265 21.0 17.3 25.9

