

Data Path : Z:\HPCHEM1\BNA M\DATA\BM120915\  
 Data File : BM003443.D  
 Acq On : 10 Dec 2015 09:29  
 Operator : UM/IZ  
 Sample : G4690-05  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Dec 10 11:26:35 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM120915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 09 18:52:47 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.72  | 152  | 72075    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.51 | 136  | 319943   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.37 | 164  | 188197   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.12 | 188  | 390895   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.32 | 240  | 350795   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.57 | 264  | 331515   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.30  | 112  | 296657   | 73.18  | ng    | 0.00     |
| 7) Phenol-d6                | 6.89  | 99   | 258635   | 45.94  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.88  | 82   | 513073   | 99.43  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.87 | 330  | 291379   | 155.03 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.99 | 172  | 1328100  | 96.15  | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.76 | 244  | 1352746  | 90.94  | ng    | 0.00     |

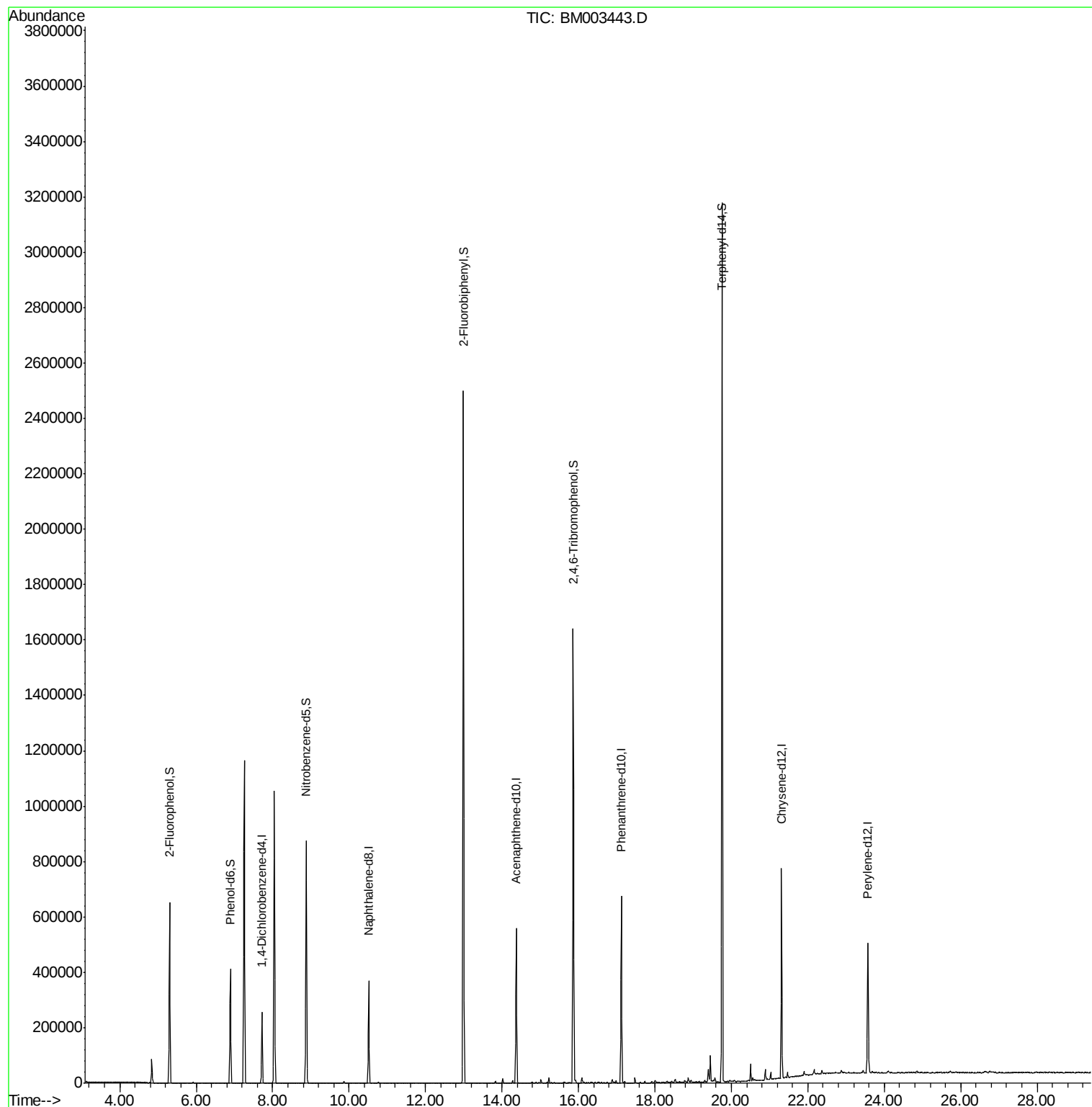
Target Compounds Qvalue

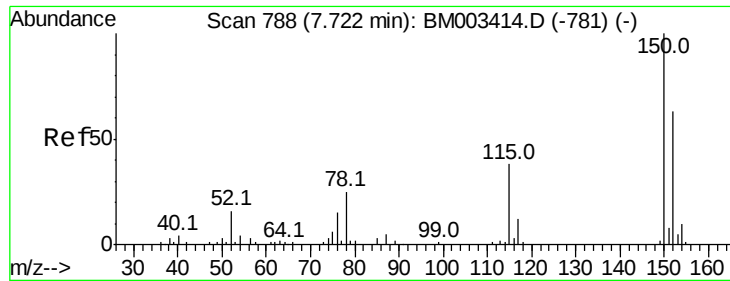
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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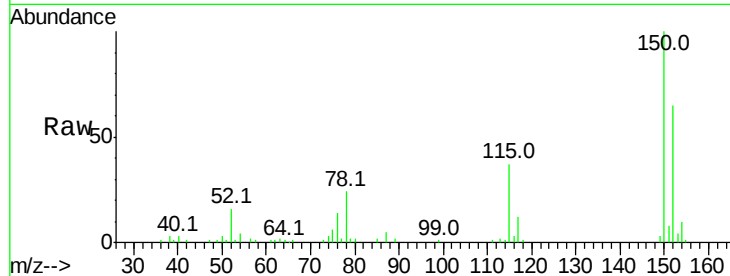


#1

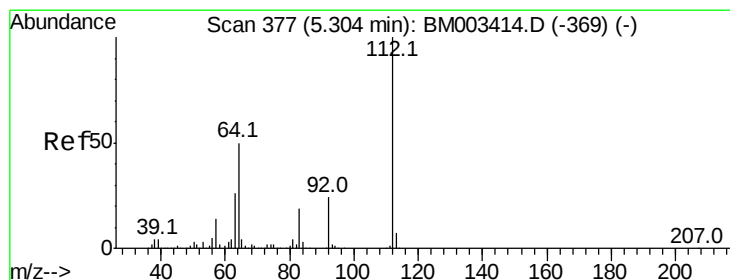
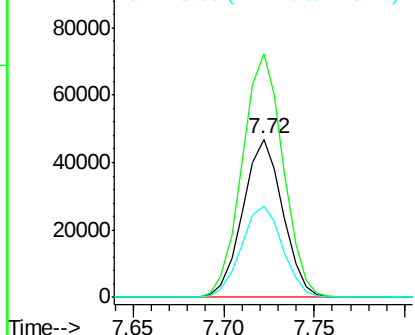
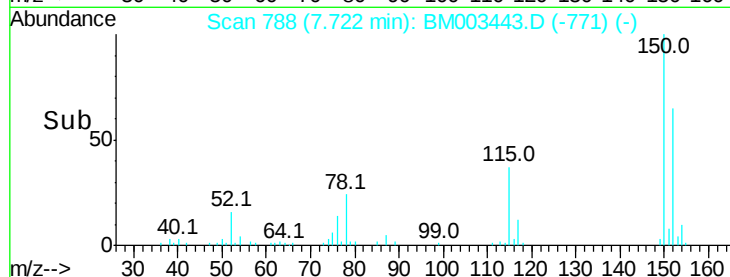
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.72 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: BM003443.D  
Acq: 10 Dec 2015 09:29

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:152 Resp: 72075  
Ion Ratio Lower Upper  
152 100  
150 153.9 119.5 179.3  
115 57.3 43.0 64.4



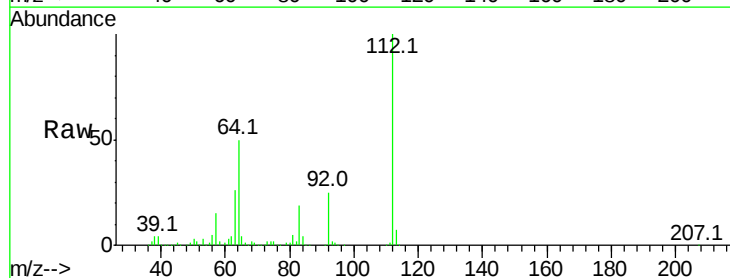
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



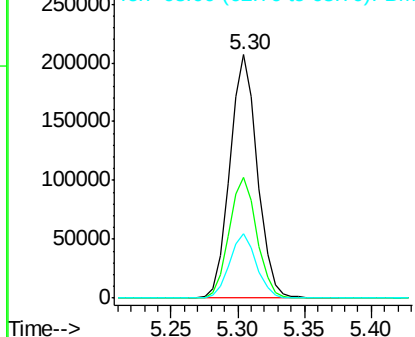
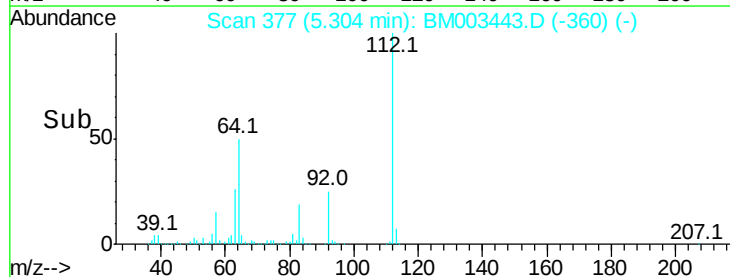
#5

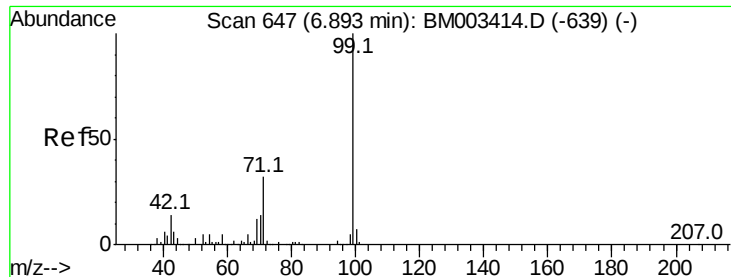
2-Fluorophenol  
Concen: 73.18 ng  
RT: 5.30 min Scan# 377  
Delta R.T. 0.00 min  
Lab File: BM003443.D  
Acq: 10 Dec 2015 09:29

Tgt Ion:112 Resp: 296657  
Ion Ratio Lower Upper  
112 100  
64 49.8 38.6 57.8  
63 26.2 19.3 28.9



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





#7

Phenol-d6

Concen: 45.94 ng

RT: 6.89 min Scan# 647

Delta R.T. 0.00 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

Instrument :

BNA\_M

ClientSampleId :

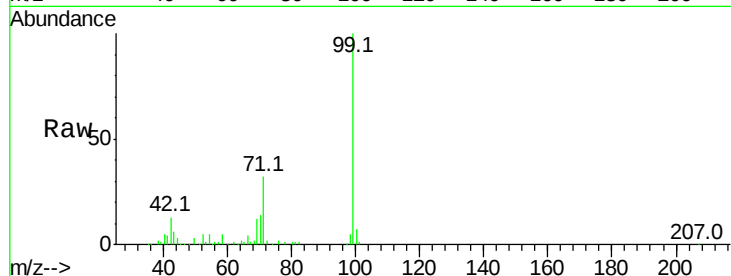
Tot Ion: 99 Resp: 258635

Ion Ratio Lower Upper

99 100

42 13.1 11.0 16.4

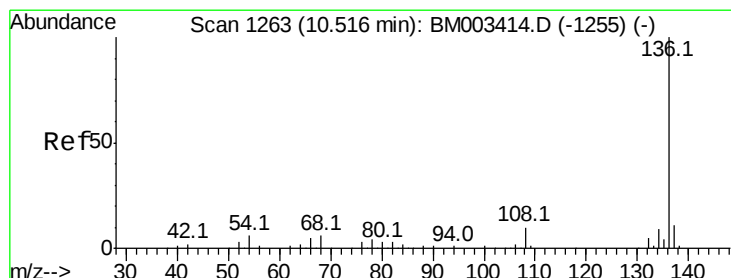
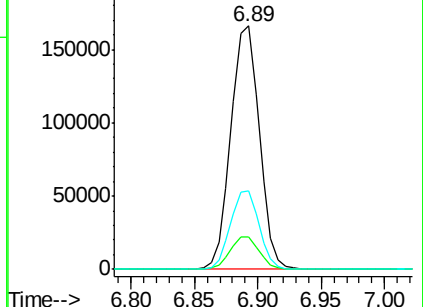
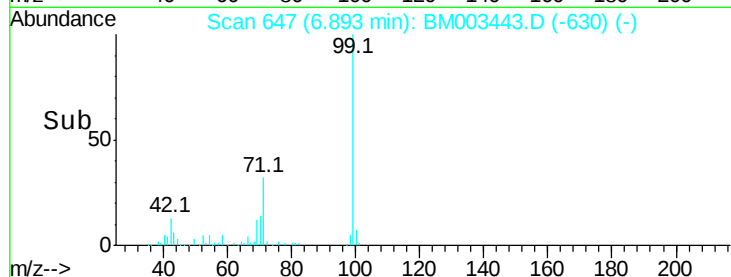
71 32.3 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BM003443.D (-639) (-)

Ion 42.00 (41.70 to 42.70): BM003443.D (-639) (-)

Ion 71.00 (70.70 to 71.70): BM003443.D (-639) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.51 min Scan# 1262

Delta R.T. -0.01 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

Tgt Ion: 136 Resp: 319943

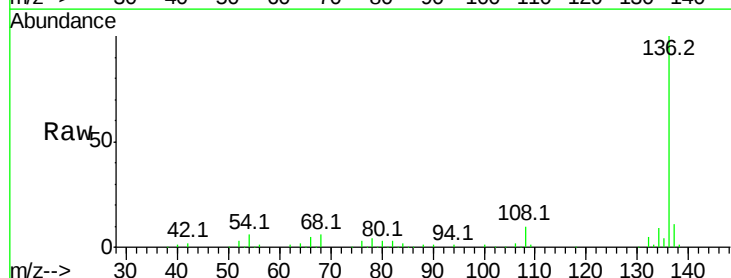
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 6.0 4.6 6.8

68 5.7 3.7 5.5#

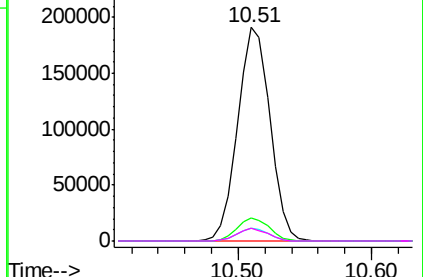
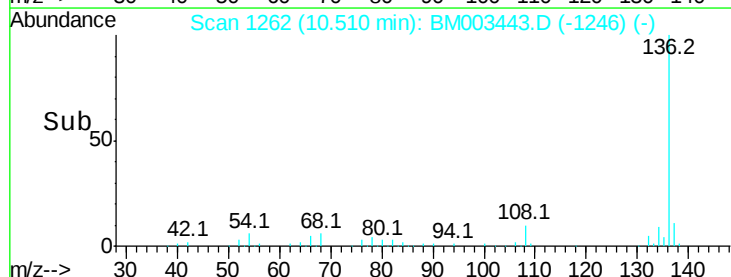


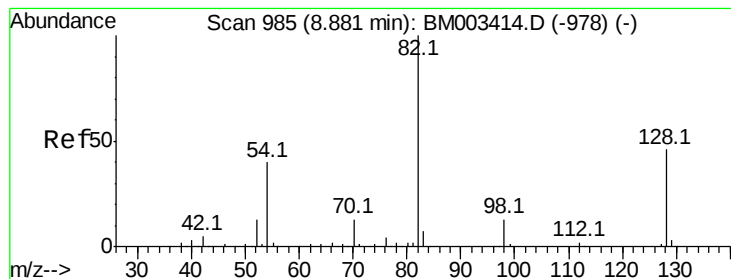
Abundance Ion 136.00 (135.70 to 136.70): BM003443.D (-1246) (-)

Ion 137.00 (136.70 to 137.70): BM003443.D (-1246) (-)

Ion 54.00 (53.70 to 54.70): BM003443.D (-1246) (-)

Ion 68.00 (67.70 to 68.70): BM003443.D (-1246) (-)





#23

Nitrobenzene-d5

Concen: 99.43 ng

RT: 8.88 min Scan# 985

Delta R.T. 0.00 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

Instrument :

BNA\_M

ClientSampled :

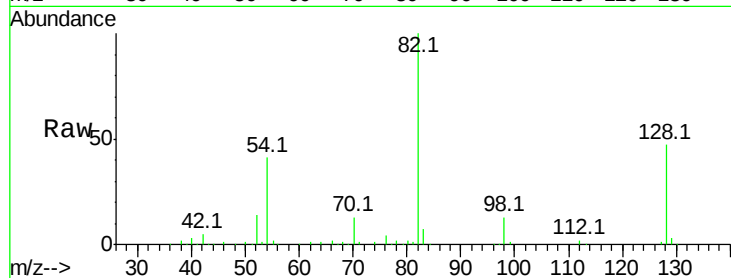
Tot Ion: 82 Resp: 513073

Ion Ratio Lower Upper

82 100

128 47.5 32.8 49.2

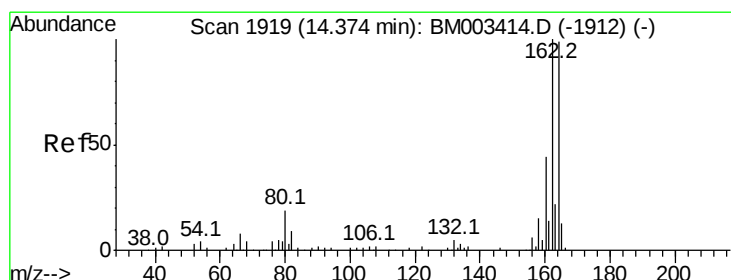
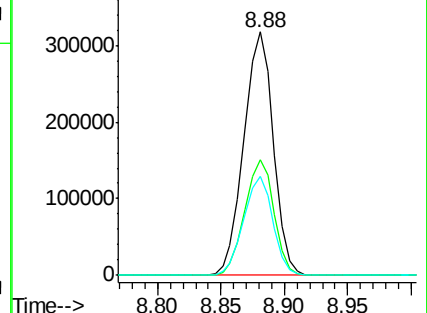
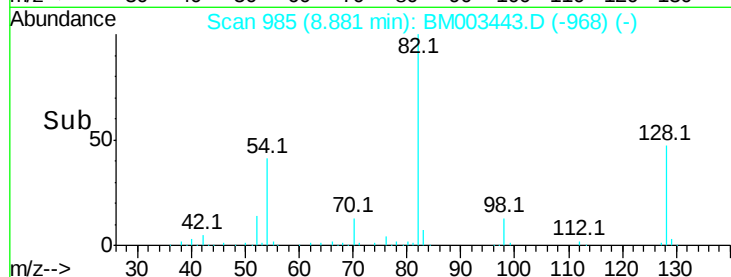
54 40.7 40.6 60.8



Abundance Ion 82.00 (81.70 to 82.70): BM003414.D (-978) (-)

Ion 128.00 (127.70 to 128.70): BM003414.D (-978) (-)

Ion 54.00 (53.70 to 54.70): BM003414.D (-978) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.37 min Scan# 1919

Delta R.T. 0.00 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

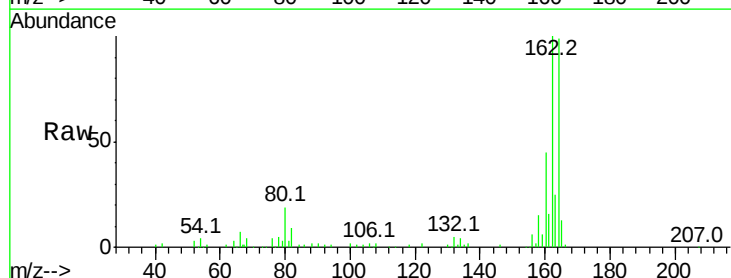
Tgt Ion:164 Resp: 188197

Ion Ratio Lower Upper

164 100

162 101.3 82.4 123.6

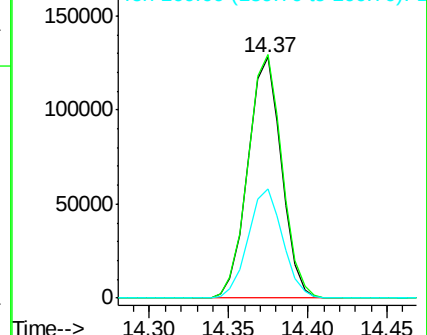
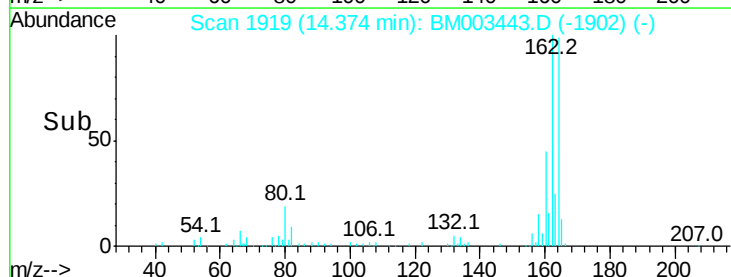
160 45.3 35.8 53.6

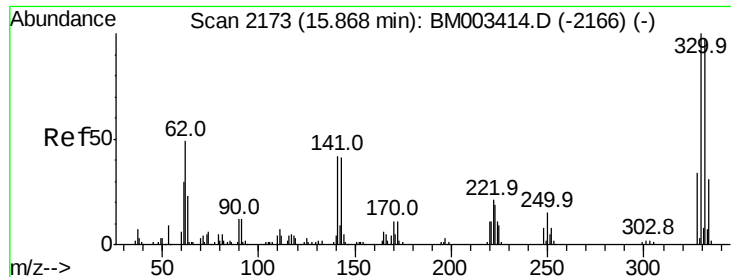


Abundance Ion 164.00 (163.70 to 164.70): BM003414.D (-1912) (-)

Ion 162.00 (161.70 to 162.70): BM003414.D (-1912) (-)

Ion 160.00 (159.70 to 160.70): BM003414.D (-1912) (-)

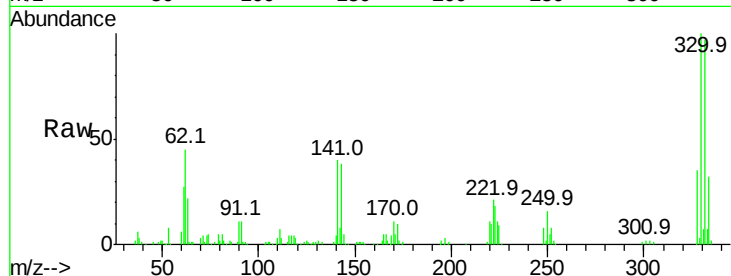




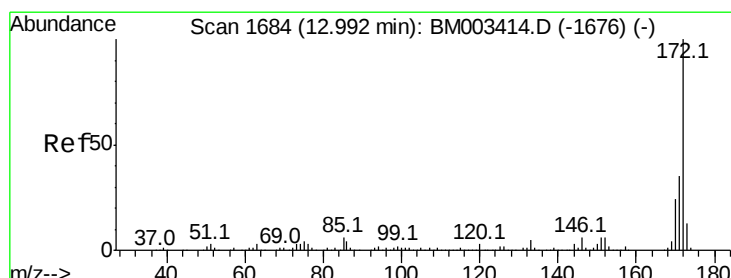
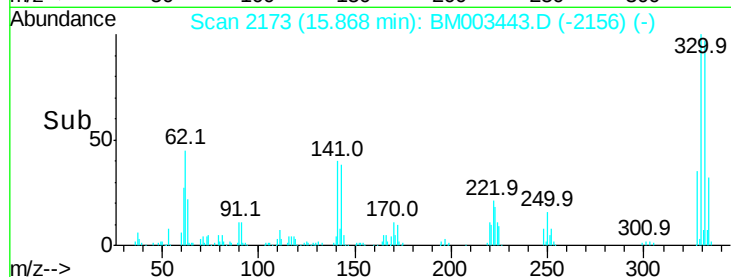
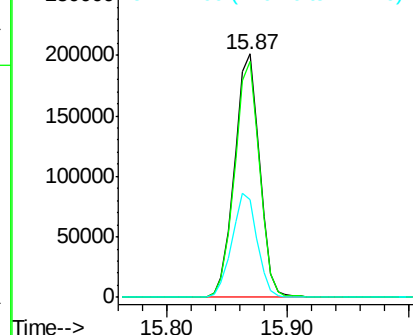
#41  
 2,4,6-Tribromophenol  
 Concen: 155.03 ng  
 RT: 15.87 min Scan# 2173  
 Delta R.T. 0.00 min  
 Lab File: BM003443.D  
 Acq: 10 Dec 2015 09:29

Instrument :  
 BNA\_M  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.3  | 0.0   | 0.0#  |
| 141     | 43.0  | 0.0   | 0.0#  |

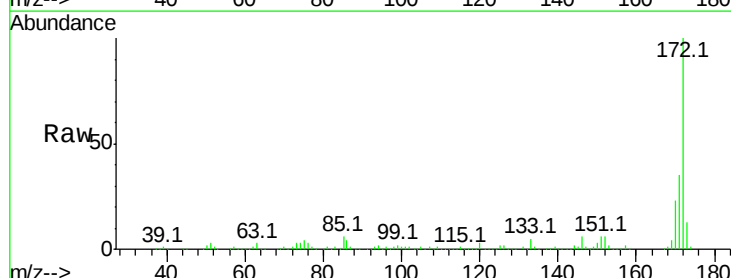


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

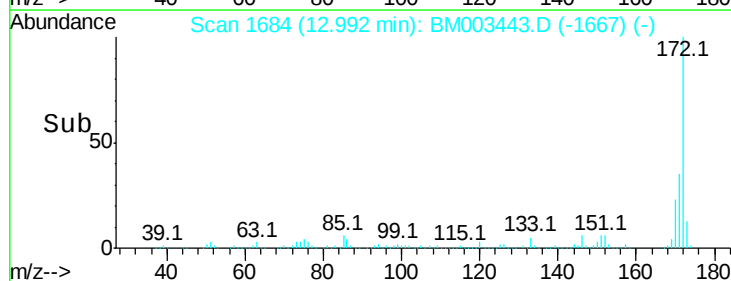
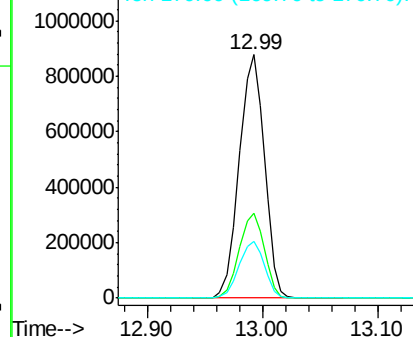


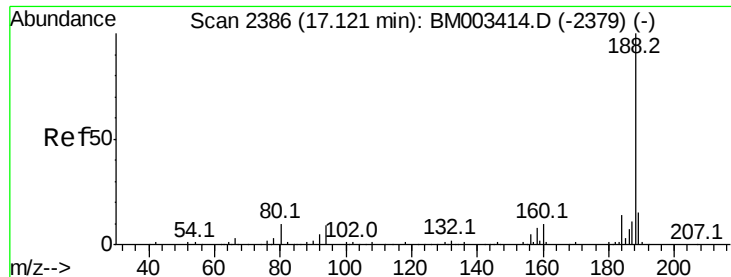
#44  
 2-Fluorobiphenyl  
 Concen: 96.15 ng  
 RT: 12.99 min Scan# 1684  
 Delta R.T. 0.00 min  
 Lab File: BM003443.D  
 Acq: 10 Dec 2015 09:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.8  | 28.5  | 42.7  |
| 170     | 23.2  | 18.8  | 28.2  |



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

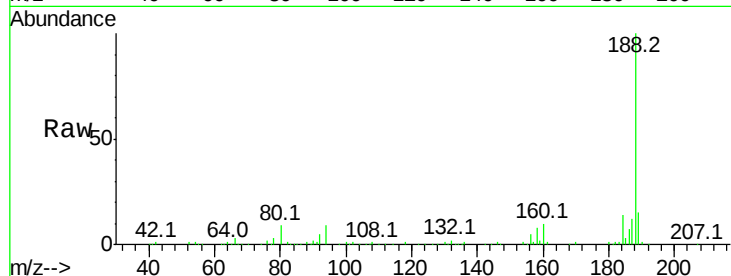




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.12 min Scan# 2386  
Delta R.T. 0.00 min  
Lab File: BM003443.D  
Acq: 10 Dec 2015 09:29

Instrument :  
BNA\_M  
ClientSampleId :

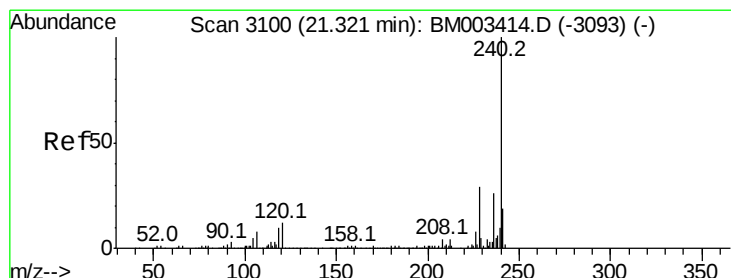
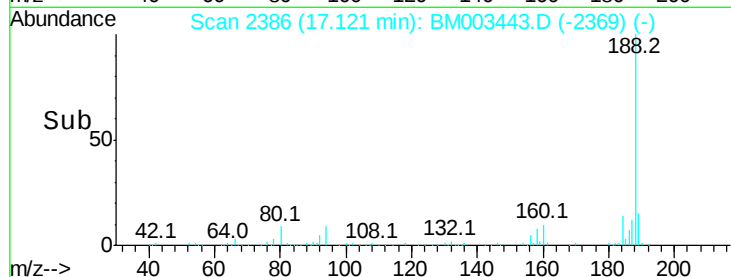
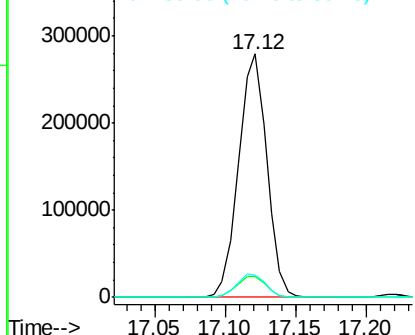
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.8   | 8.7   | 13.1  |
| 80      | 9.3   | 9.3   | 13.9  |



Abundance Ion 188.00 (187.70 to 188.70): E

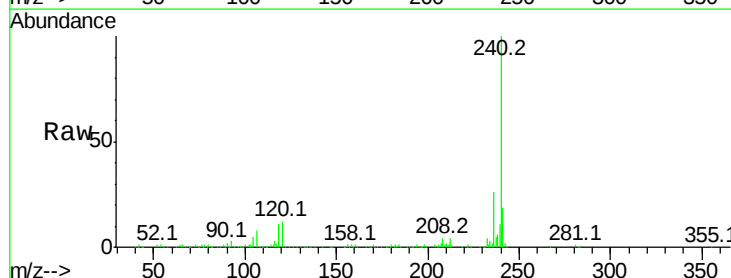
Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.32 min Scan# 3099  
Delta R.T. -0.01 min  
Lab File: BM003443.D  
Acq: 10 Dec 2015 09:29

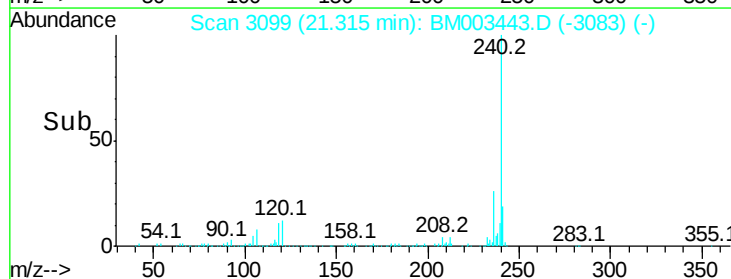
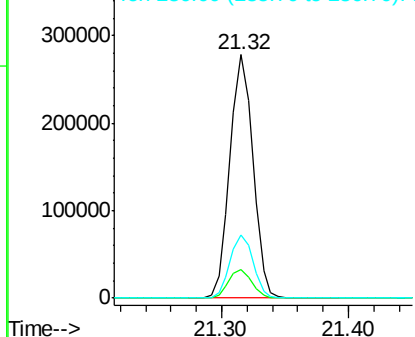
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 8.2   | 12.2  |
| 236     | 26.1  | 20.0  | 30.0  |

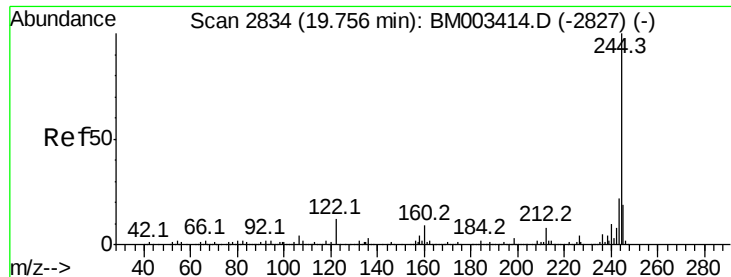


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 90.94 ng

RT: 19.76 min Scan# 2834

Delta R.T. 0.00 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

Instrument :

BNA\_M

ClientSampleId :

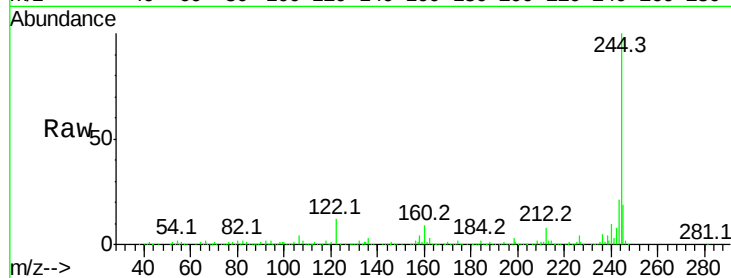
Tot Ion:244 Resp: 1352746

Ion Ratio Lower Upper

244 100

212 8.0 4.9 7.3#

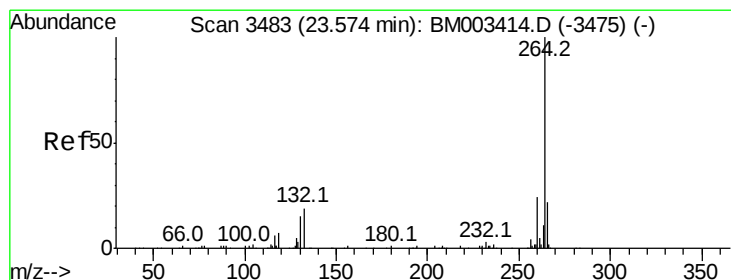
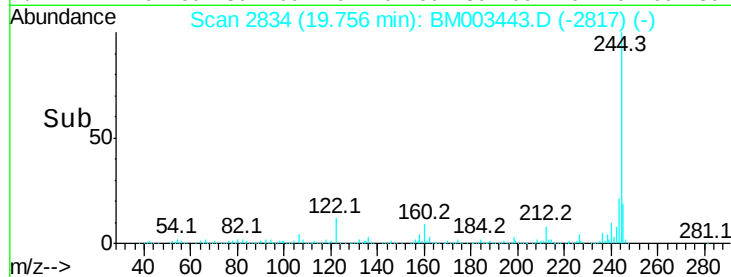
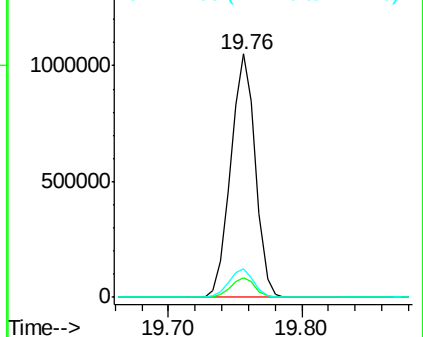
122 11.8 6.2 9.4#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.57 min Scan# 3483

Delta R.T. 0.00 min

Lab File: BM003443.D

Acq: 10 Dec 2015 09:29

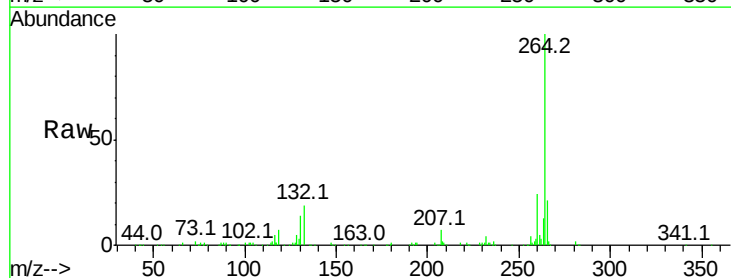
Tgt Ion:264 Resp: 331515

Ion Ratio Lower Upper

264 100

260 24.0 18.6 27.8

265 21.3 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

