

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060415\  
 Data File : BF079708.D  
 Acq On : 4 Jun 2015 18:09  
 Operator : TP/IZ  
 Sample : PB83779BL  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83779BL

Quant Time: Jun 06 01:49:16 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 05 19:33:57 2015  
 Response via : Initial Calibration

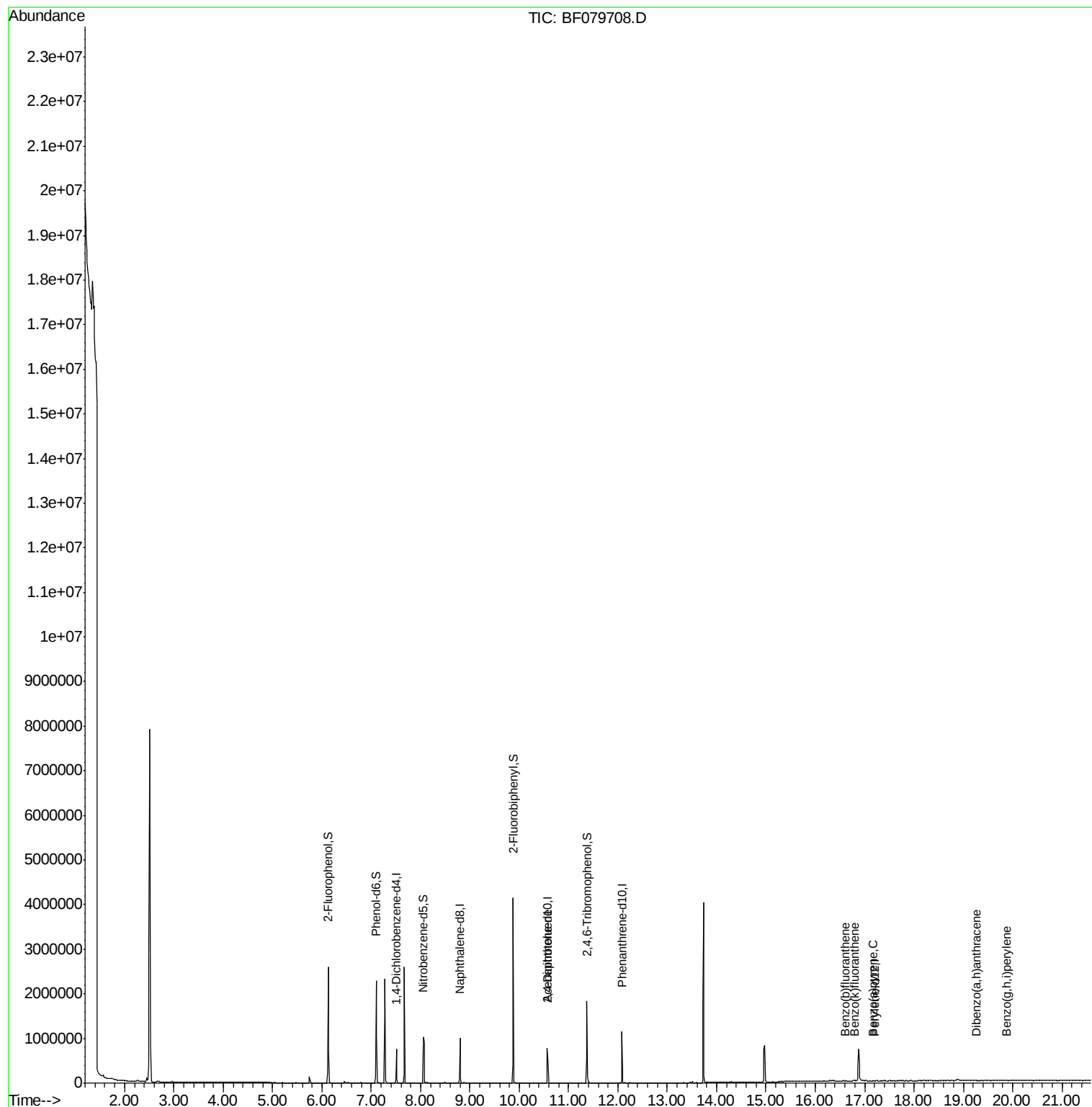
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.51  | 152  | 102604   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.80  | 136  | 398964   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.57 | 164  | 193302   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.08 | 188  | 414091   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 0.00  | 240  | 0        | 0.00   | ng    | -15.17   |
| 86) Perylene-d12            | 17.20 | 264  | 784      | 20.00  | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.12  | 112  | 689963   | 115.31 | ng    | 0.00     |
| 7) Phenol-d6                | 7.10  | 99   | 864054   | 110.92 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.06  | 82   | 457302   | 69.79  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.37 | 330  | 224531   | 129.35 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.87  | 172  | 1129417  | 84.59  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.74 | 244  | 1459803  | 0.00   | ng    | -0.09    |
| Target Compounds            |       |      |          |        |       |          |
| 56) 2,4-Dinitrotoluene      | 10.57 | 165  | 24232    | 7.68   | ng    | # 34     |
| 87) Benzo(b)fluoranthene    | 16.62 | 252  | 206      | 4.07   | ng    | # 60     |
| 88) Benzo(k)fluoranthene    | 16.79 | 252  | 7944     | 164.62 | ng    | # 94     |
| 89) Benzo(a)pyrene          | 17.17 | 252  | 211      | 4.57   | ng    | # 60     |
| 90) Dibenzo(a,h)anthracene  | 19.26 | 278  | 235      | 5.51   | ng    | # 56     |
| 91) Benzo(g,h,i)perylene    | 19.89 | 276  | 711      | 16.29  | ng    | # 52     |

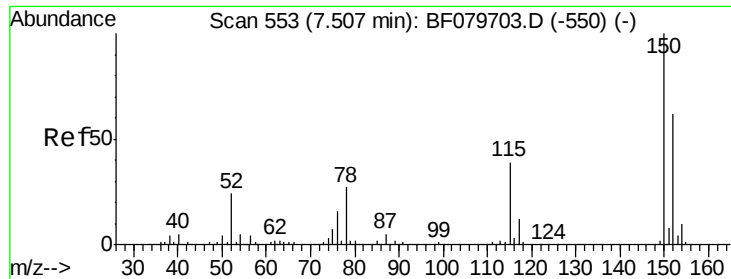
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 05 19:33:57 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

Instrument :

BNA\_F

ClientSampled :

PB83779BL

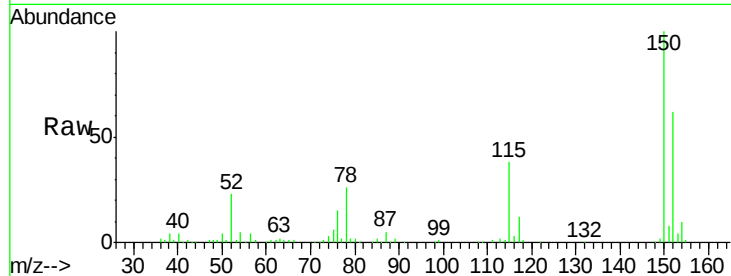
Tgt Ion:152 Resp: 102604

Ion Ratio Lower Upper

152 100

150 161.0 128.1 192.1

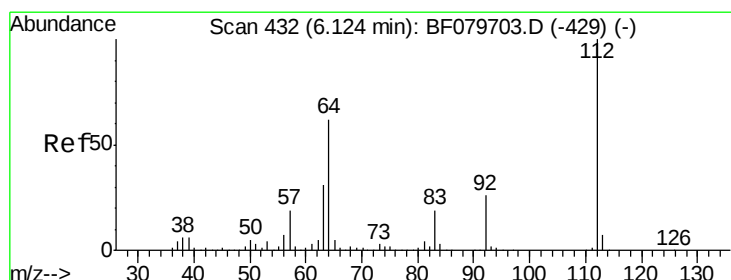
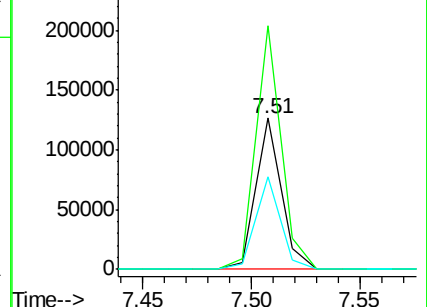
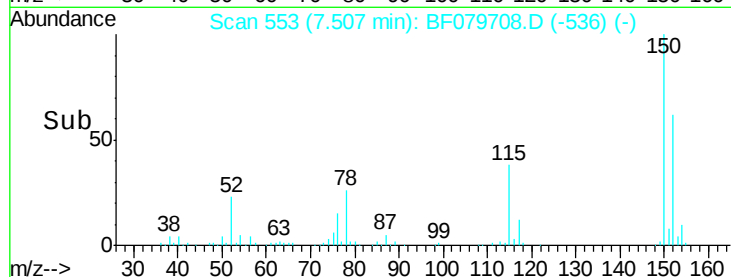
115 60.9 49.7 74.5



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: 115.31 ng

RT: 6.12 min Scan# 432

Delta R.T. -0.00 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

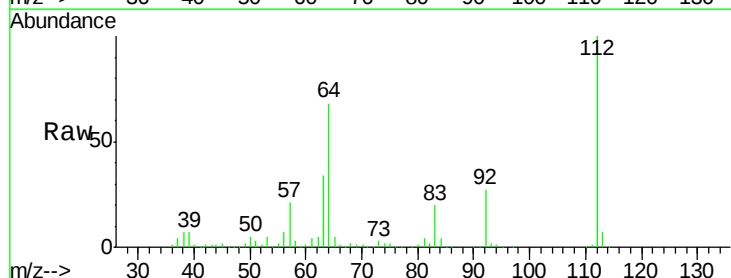
Tgt Ion:112 Resp: 689963

Ion Ratio Lower Upper

112 100

64 67.9 49.6 74.4

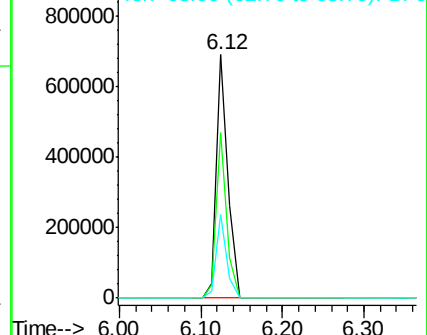
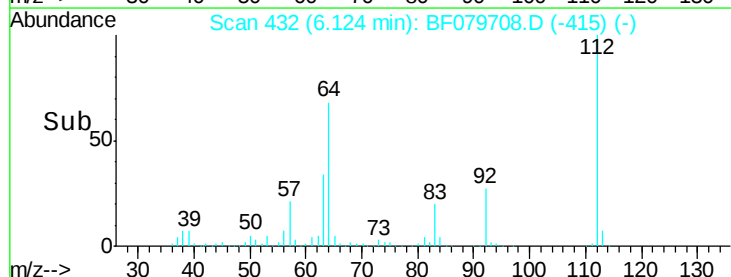
63 34.2 24.9 37.3

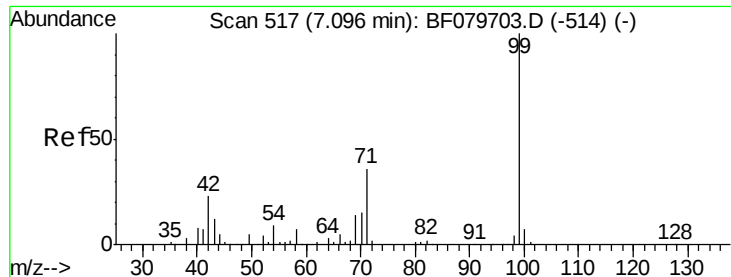


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 110.92 ng

RT: 7.10 min Scan# 517

Delta R.T. -0.00 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

Instrument :

BNA\_F

ClientSampled :

PB83779BL

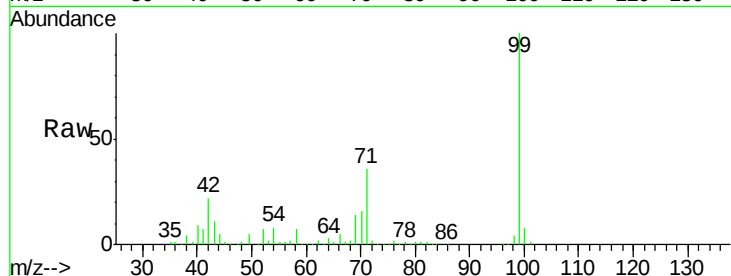
Tgt Ion: 99 Resp: 864054

Ion Ratio Lower Upper

99 100

42 21.9 18.0 27.0

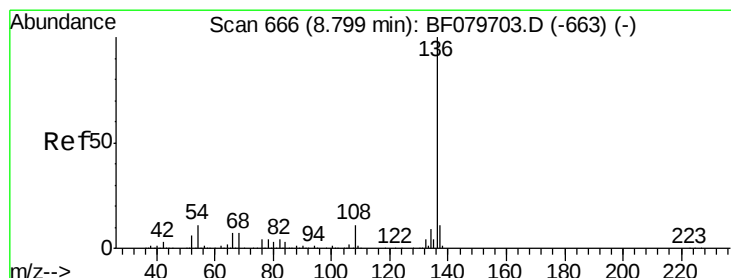
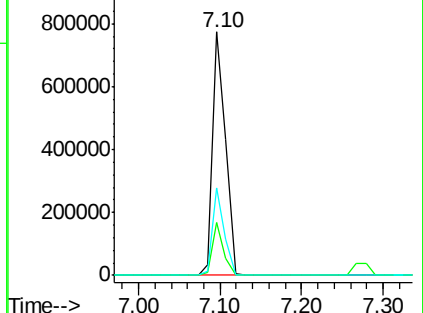
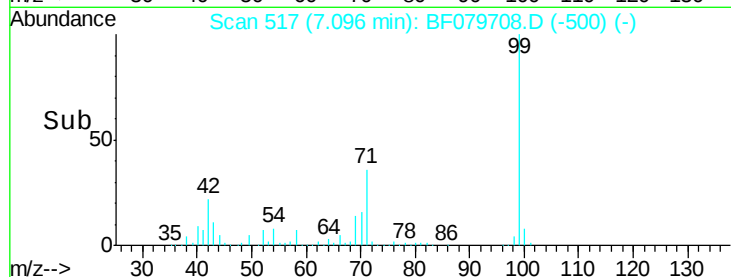
71 36.0 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.80 min Scan# 666

Delta R.T. -0.00 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

Tgt Ion: 136 Resp: 398964

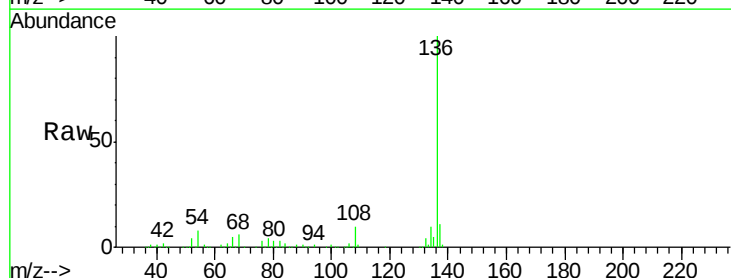
Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

54 8.4 8.7 13.1#

68 6.3 5.8 8.8

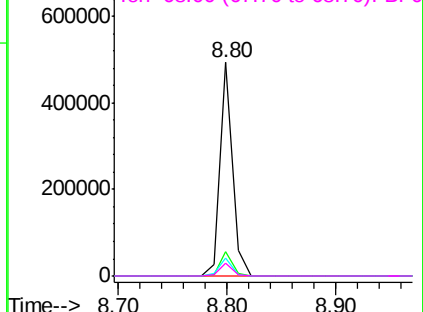
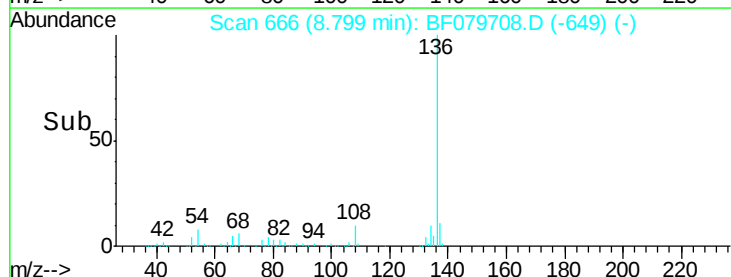


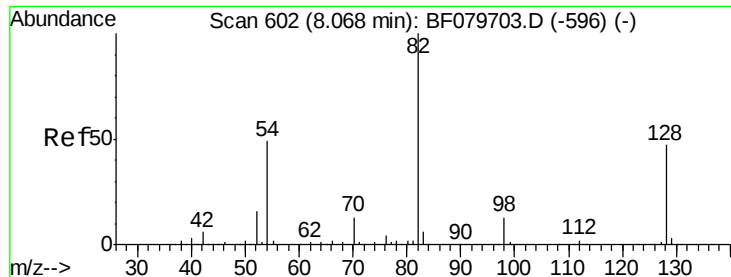
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

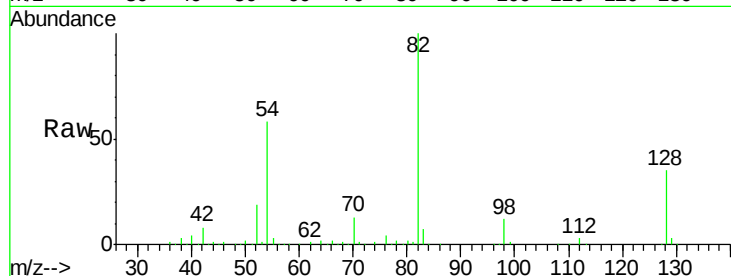




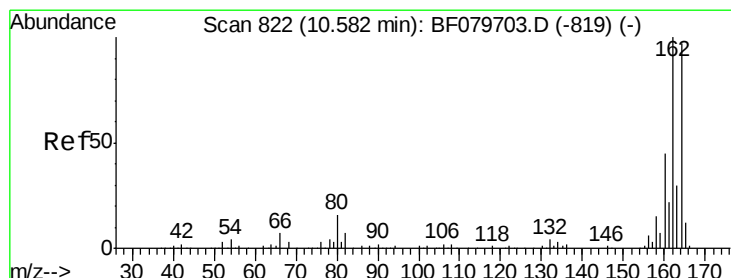
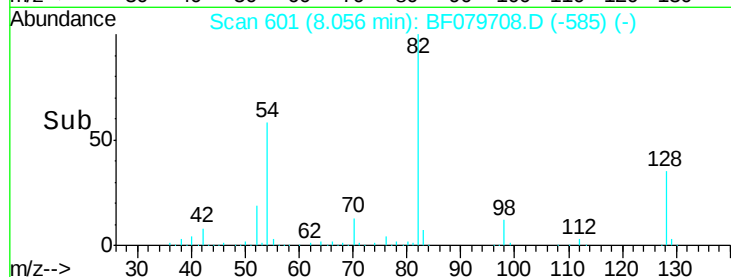
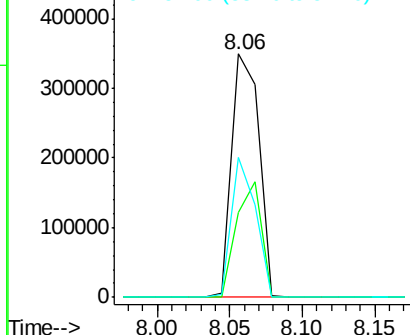
#23  
 Nitrobenzene-d5  
 Concen: 69.79 ng  
 RT: 8.06 min Scan# 601  
 Delta R.T. -0.01 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83779BL

Tgt Ion: 82 Resp: 457302  
 Ion Ratio Lower Upper  
 82 100  
 128 34.6 37.6 56.4#  
 54 57.5 39.4 59.2

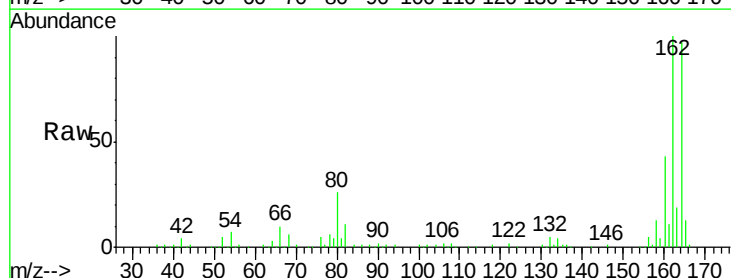


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

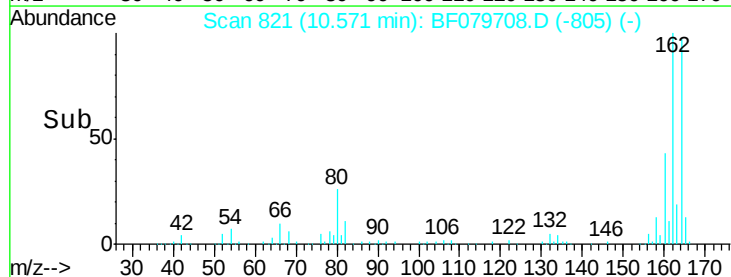
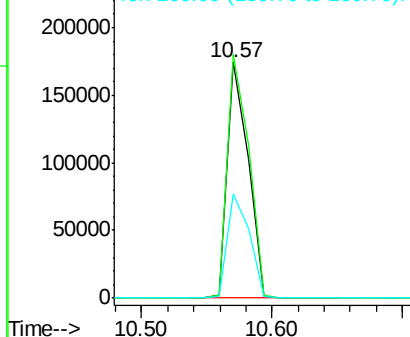


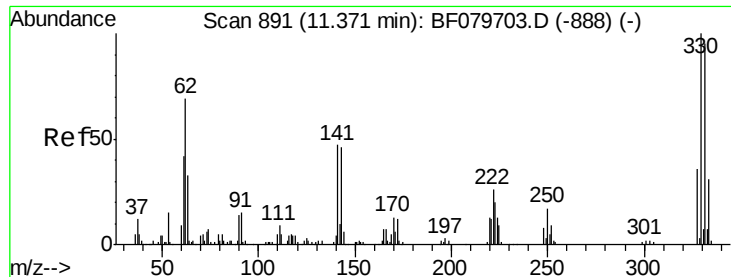
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.57 min Scan# 821  
 Delta R.T. -0.01 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

Tgt Ion: 164 Resp: 193302  
 Ion Ratio Lower Upper  
 164 100  
 162 103.3 82.6 123.8  
 160 44.3 36.8 55.2



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

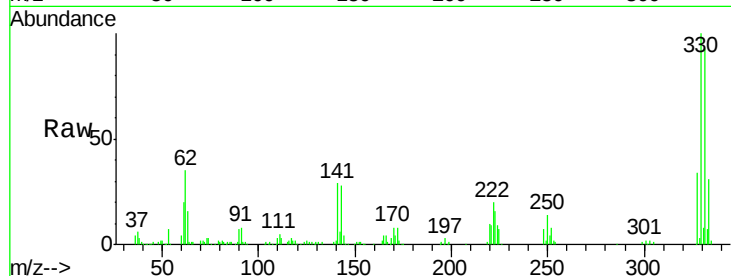




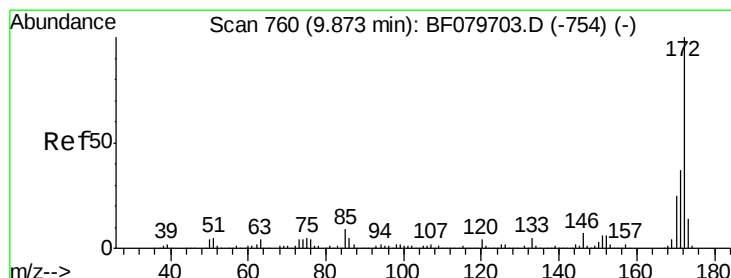
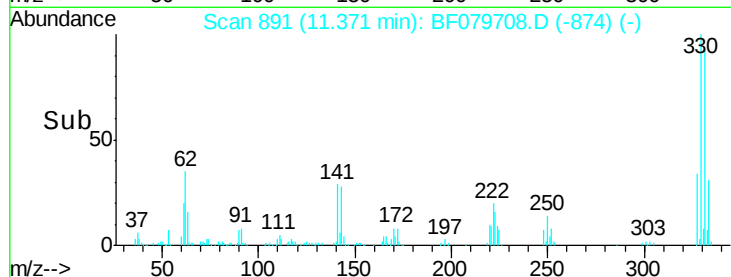
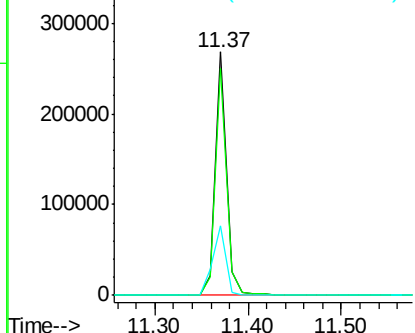
#41  
 2,4,6-Tribromophenol  
 Concen: 129.35 ng  
 RT: 11.37 min Scan# 891  
 Delta R.T. -0.00 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83779BL

Tgt Ion:330 Resp: 224531  
 Ion Ratio Lower Upper  
 330 100  
 332 93.9 77.4 116.0  
 141 33.9 30.2 45.2

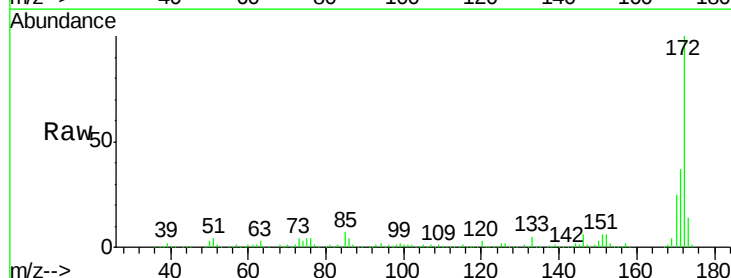


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

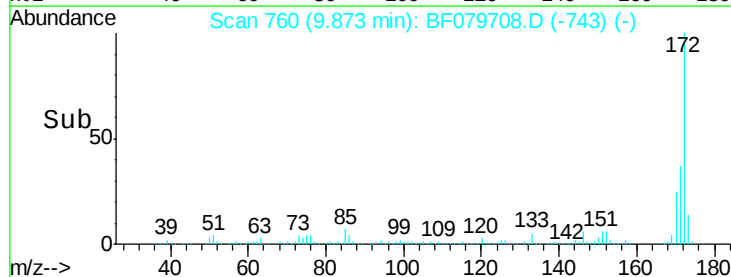
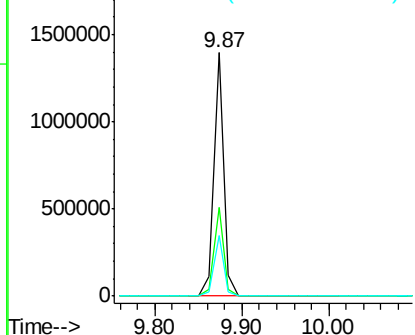


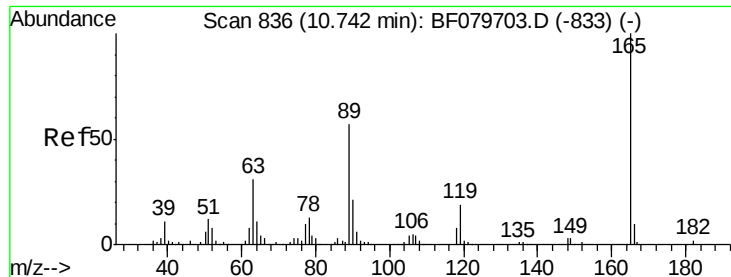
#44  
 2-Fluorobiphenyl  
 Concen: 84.59 ng  
 RT: 9.87 min Scan# 760  
 Delta R.T. -0.00 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

Tgt Ion:172 Resp: 1129417  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.4 44.0  
 170 24.8 19.7 29.5



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

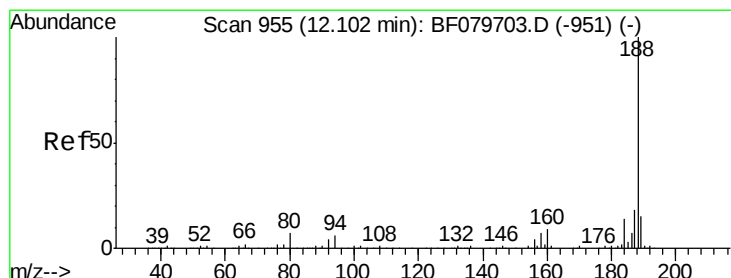
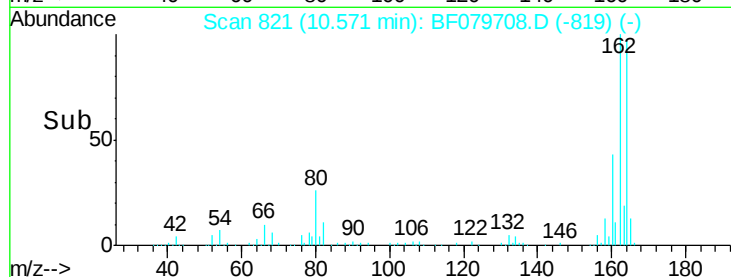
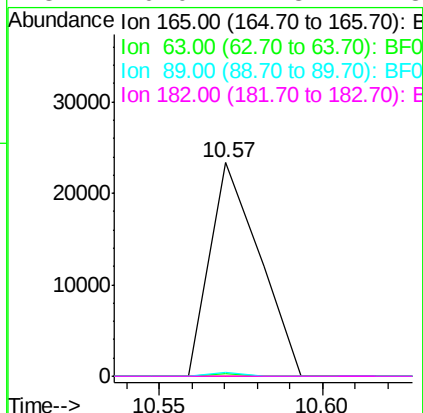
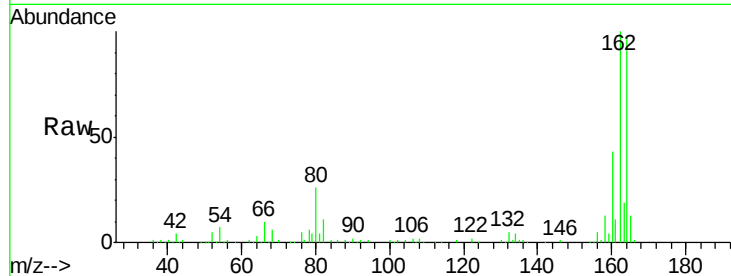




#56  
 2,4-Dinitrotoluene  
 Concen: 7.68 ng  
 RT: 10.57 min Scan# 821  
 Delta R.T. -0.17 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

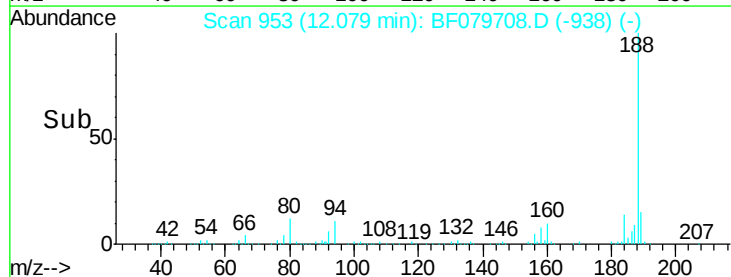
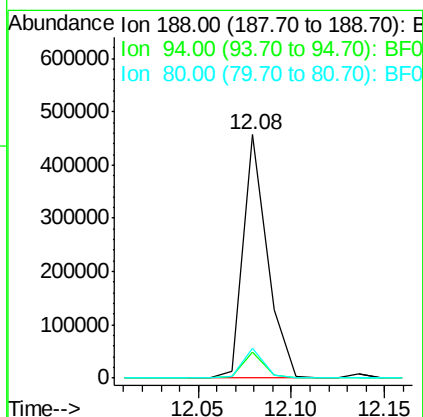
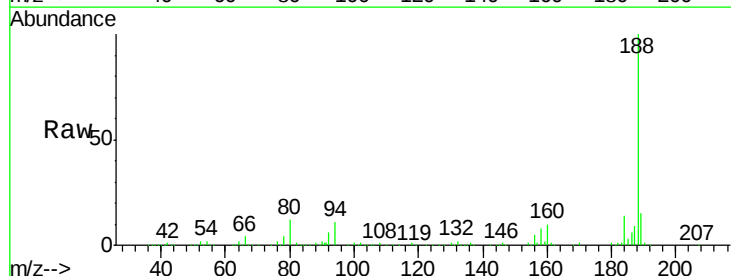
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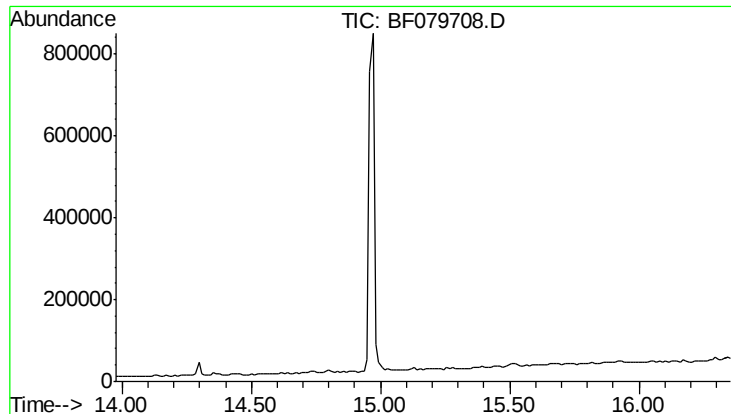
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 24.7  | 37.1# |
| 89      | 1.9   | 45.7  | 68.5# |
| 182     | 0.0   | 1.8   | 2.8#  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.08 min Scan# 953  
 Delta R.T. -0.02 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.9  | 5.0   | 7.4#  |
| 80      | 12.4  | 5.3   | 7.9#  |

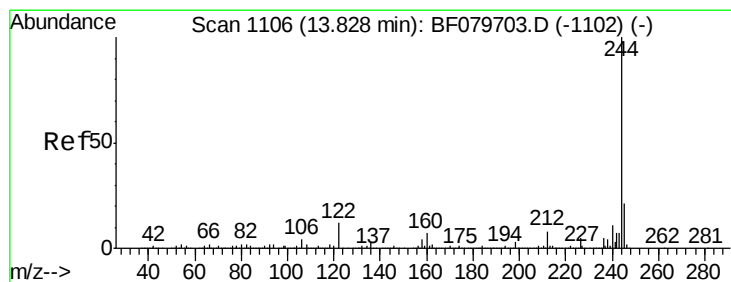
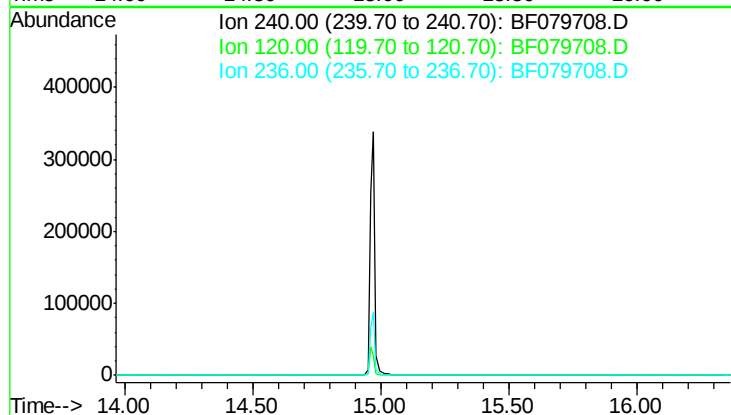




#75  
 Chrysene-d12  
 Concen: 0.00 ng  
 Expected RT: 15.17 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

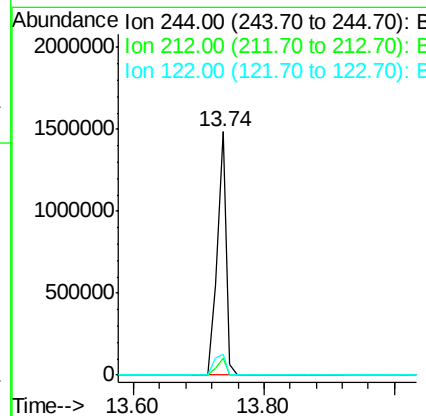
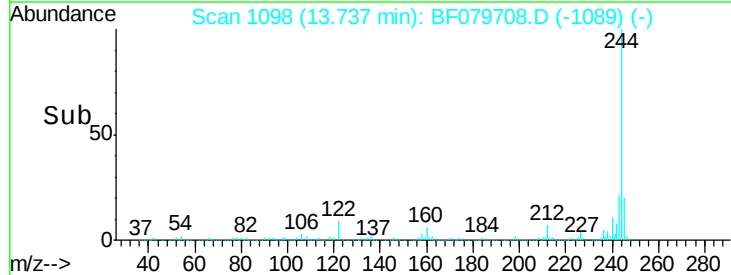
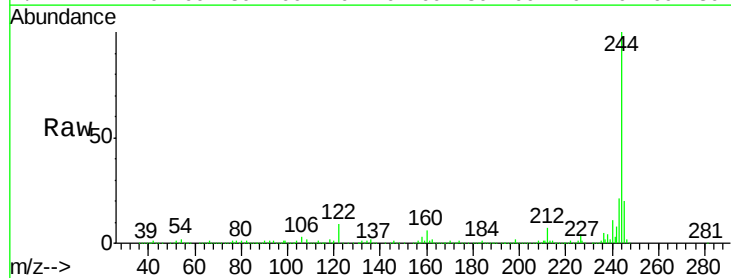
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB83779BL

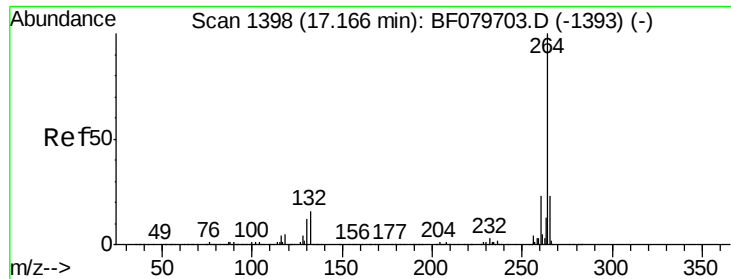
Tgt Ion: 240  
 Sig Exp Ratio  
 240 100  
 120 7.7  
 236 26.2



#78  
 Terphenyl-d14  
 Concen: 0.00 ng  
 RT: 13.74 min Scan# 1098  
 Delta R.T. -0.09 min  
 Lab File: BF079708.D  
 Acq: 4 Jun 2015 18:09

Tgt Ion: 244 Resp: 1459803  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.1 9.1  
 122 8.6 9.3 13.9#

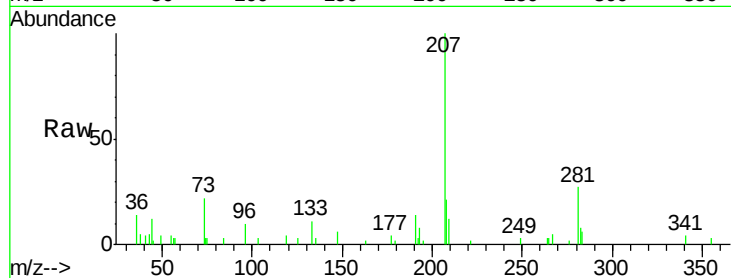




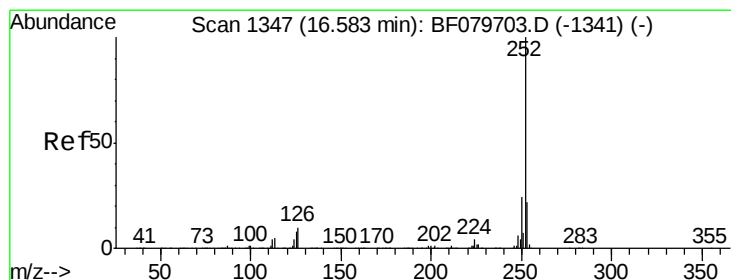
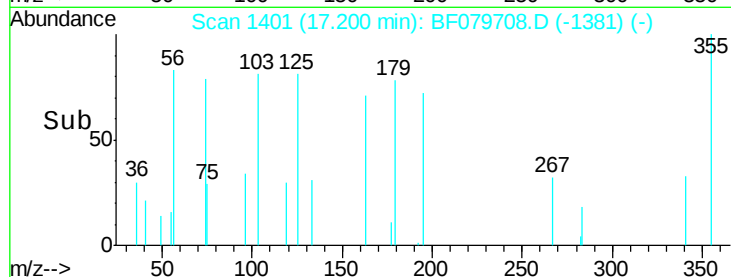
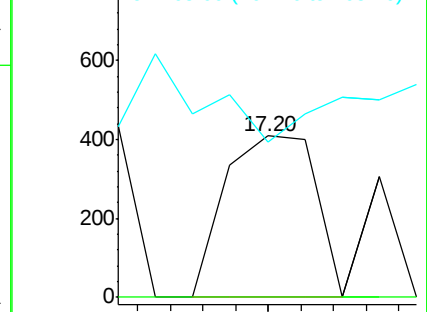
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 17.20 min Scan# 1401  
Delta R.T. 0.03 min  
Lab File: BF079708.D  
Acq: 4 Jun 2015 18:09

Instrument :  
BNA\_F  
ClientSampleId :  
PB83779BL

Tgt Ion: 264 Resp: 784  
Ion Ratio Lower Upper  
264 100  
260 0.0 18.6 27.8#  
265 96.8 18.2 27.4#

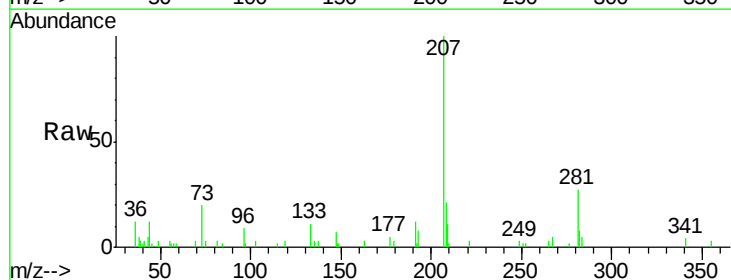


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

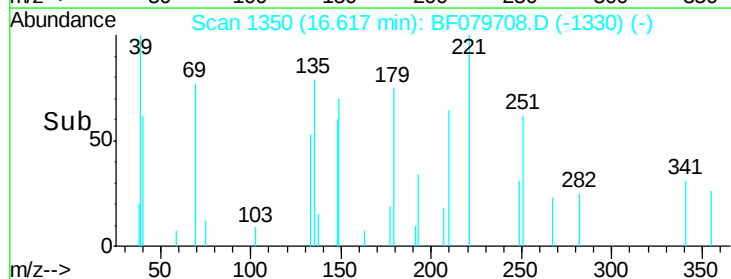
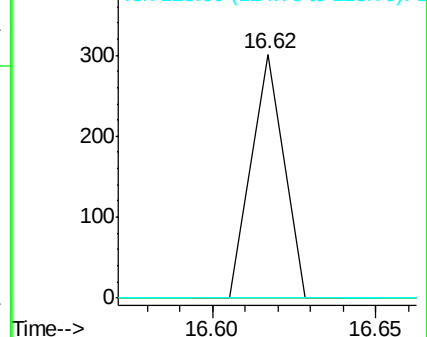


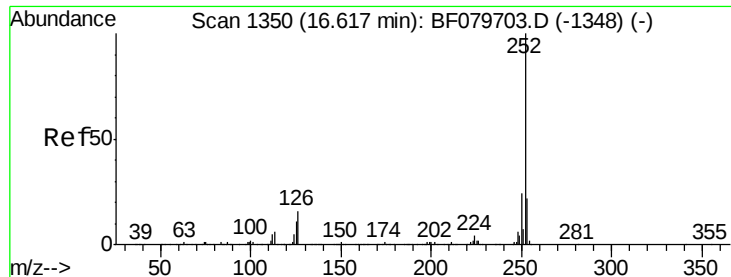
#87  
Benzo(b)fluoranthene  
Concen: 4.07 ng  
RT: 16.62 min Scan# 1350  
Delta R.T. 0.03 min  
Lab File: BF079708.D  
Acq: 4 Jun 2015 18:09

Tgt Ion: 252 Resp: 206  
Ion Ratio Lower Upper  
252 100  
253 0.0 17.4 26.2#  
125 0.0 6.5 9.7#



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

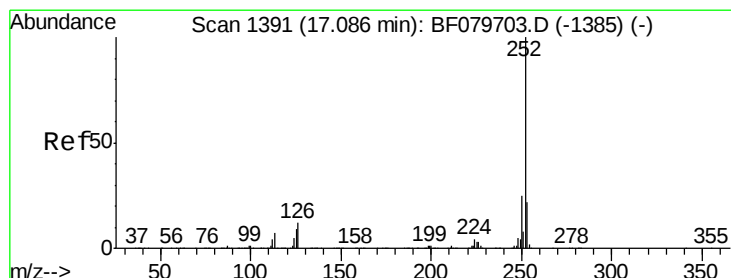
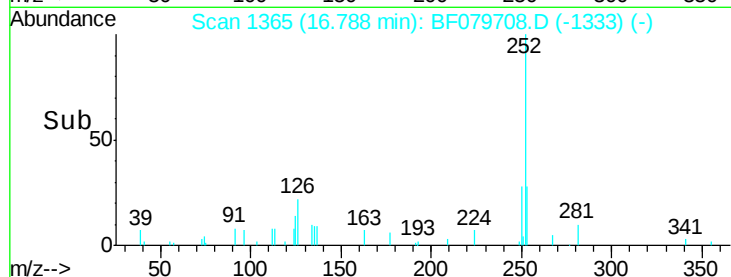
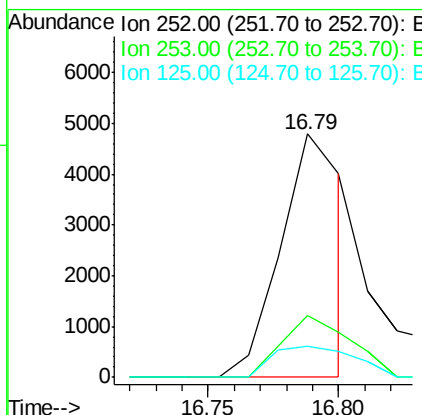
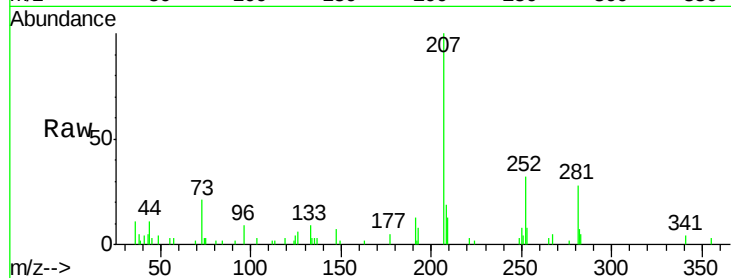




#88  
Benzo(k)fluoranthene  
Concen: 164.62 ng  
RT: 16.79 min Scan# 1365  
Delta R.T. 0.17 min  
Lab File: BF079708.D  
Acq: 4 Jun 2015 18:09

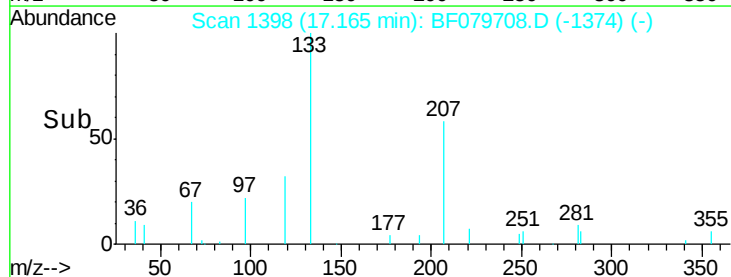
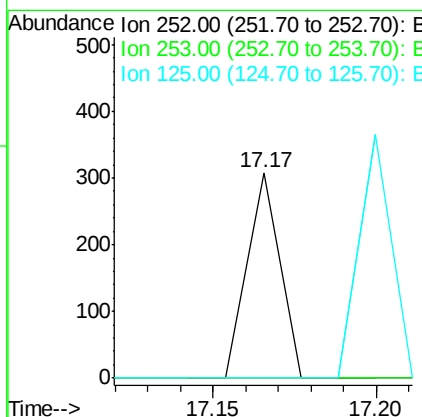
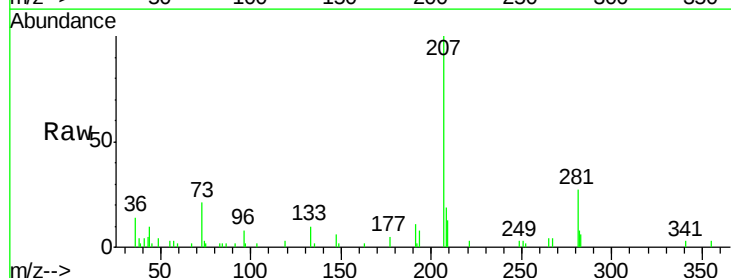
Instrument :  
BNA\_F  
ClientSampleId :  
PB83779BL

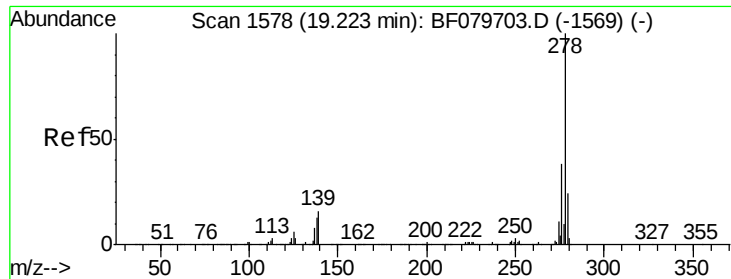
Tgt Ion: 252 Resp: 7944  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.8 26.8  
125 13.0 8.4 12.6#



#89  
Benzo(a)pyrene  
Concen: 4.57 ng  
RT: 17.17 min Scan# 1398  
Delta R.T. 0.08 min  
Lab File: BF079708.D  
Acq: 4 Jun 2015 18:09

Tgt Ion: 252 Resp: 211  
Ion Ratio Lower Upper  
252 100  
253 0.0 17.6 26.4#  
125 0.0 7.4 11.0#





#90

Dibenzo(a,h)anthracene

Concen: 5.51 ng

RT: 19.26 min Scan# 1581

Delta R.T. 0.03 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

Instrument :

BNA\_F

ClientSampleId :

PB83779BL

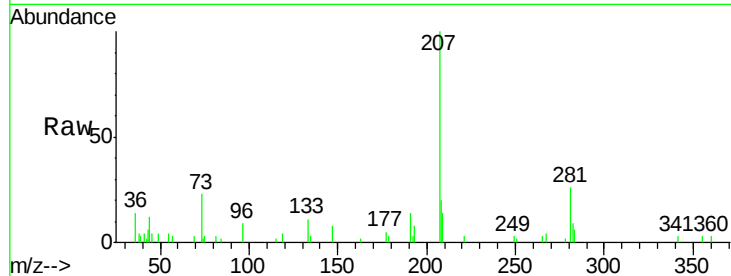
Tgt Ion: 278 Resp: 235

Ion Ratio Lower Upper

278 100

139 0.0 12.7 19.1#

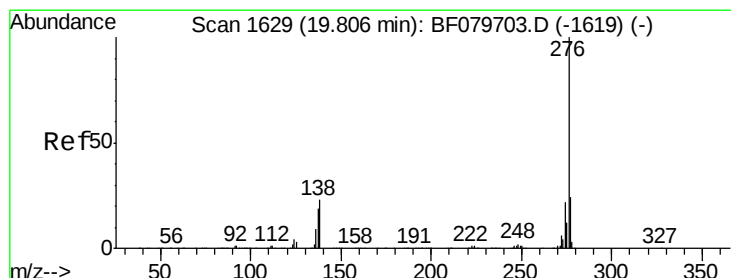
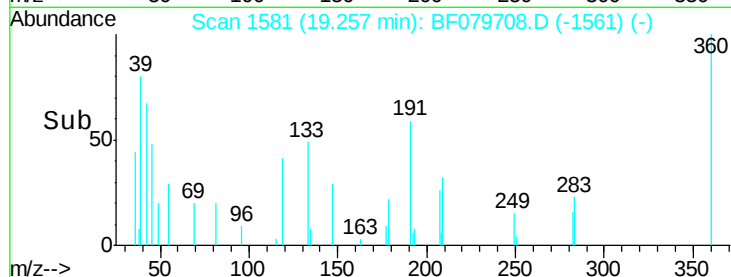
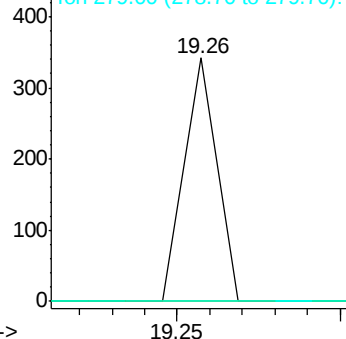
279 0.0 19.4 29.2#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 16.29 ng

RT: 19.89 min Scan# 1636

Delta R.T. 0.08 min

Lab File: BF079708.D

Acq: 4 Jun 2015 18:09

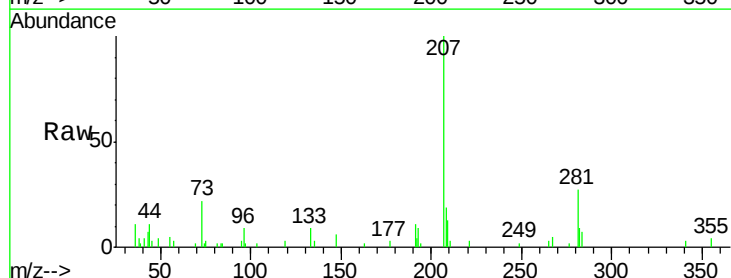
Tgt Ion: 276 Resp: 711

Ion Ratio Lower Upper

276 100

277 0.0 18.8 28.2#

138 0.0 18.2 27.2#



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

