

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF022415\  
 Data File : BF077418.D  
 Acq On : 24 Feb 2015 15:32  
 Operator : IZ / TP  
 Sample : PB81839BL  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB81839BL

Quant Time: Feb 25 01:09:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF021915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 25 00:25:01 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.30  | 152  | 46271    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.88  | 136  | 189480   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 11.05 | 164  | 96737    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.90 | 188  | 194337   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 16.20 | 240  | 216586   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 18.00 | 264  | 221890   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.60  | 112  | 328044   | 118.36 | ng    | 0.00     |
| 7) Phenol-d6                | 6.85  | 99   | 409411   | 114.89 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.98  | 82   | 227978   | 74.82  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 12.03 | 330  | 109971   | 118.06 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 10.22 | 172  | 521427   | 84.05  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.89 | 244  | 627933   | 67.78  | ng    | -0.01    |

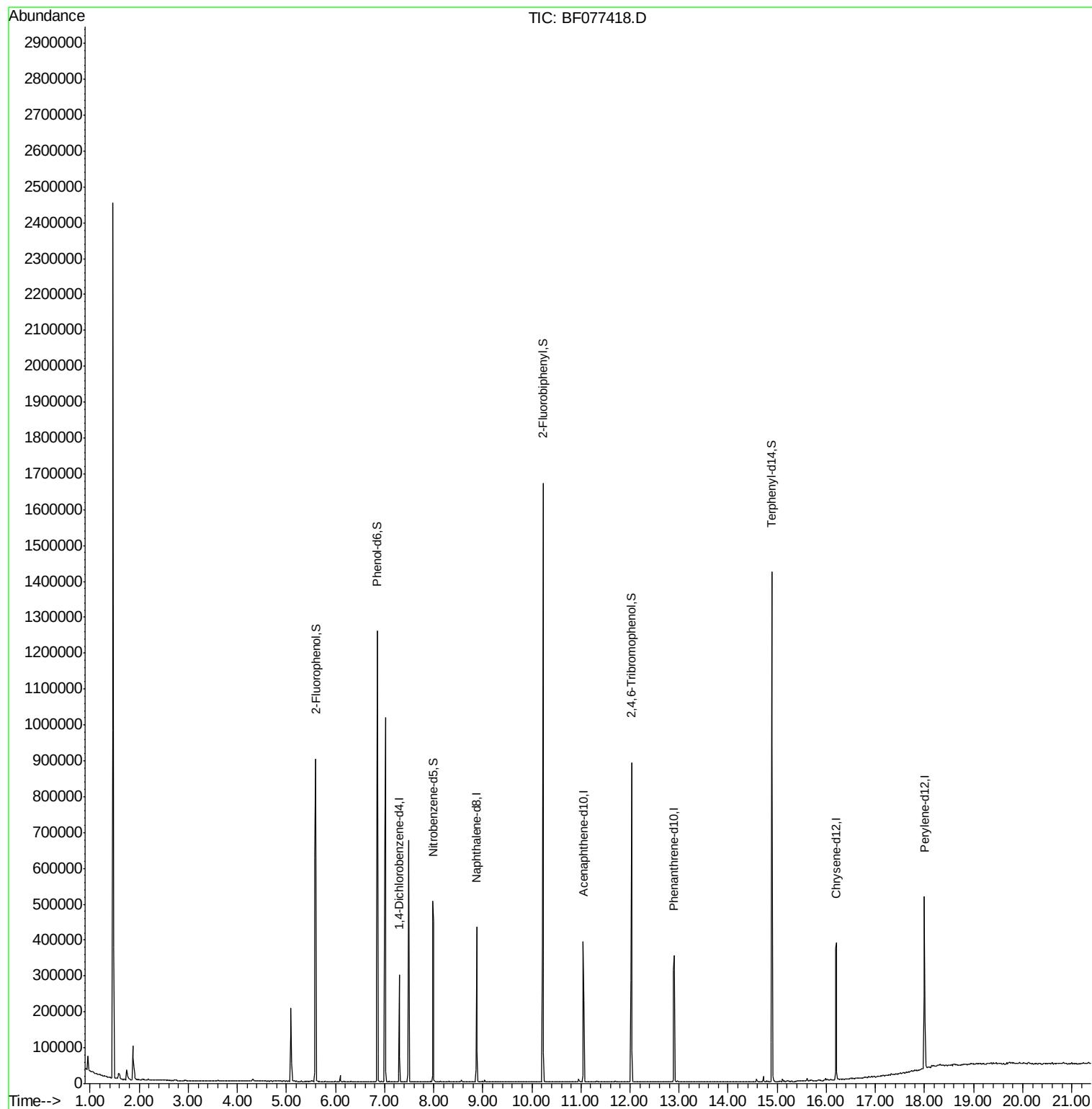
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

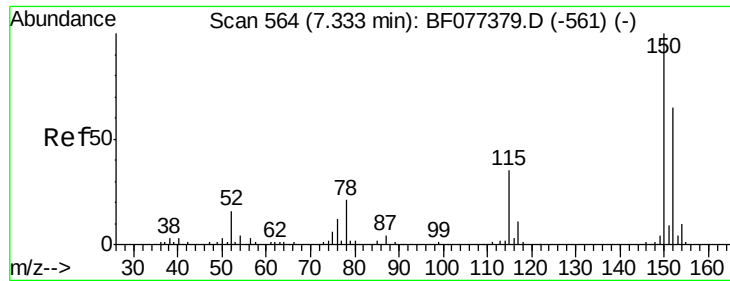
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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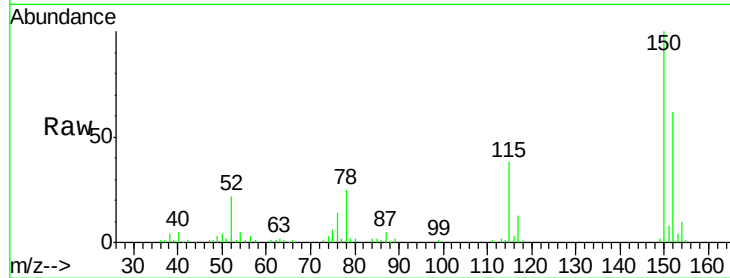


#1

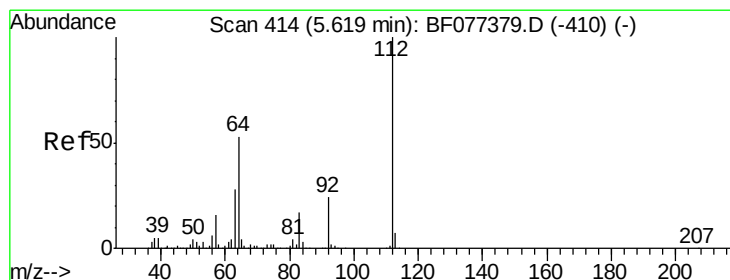
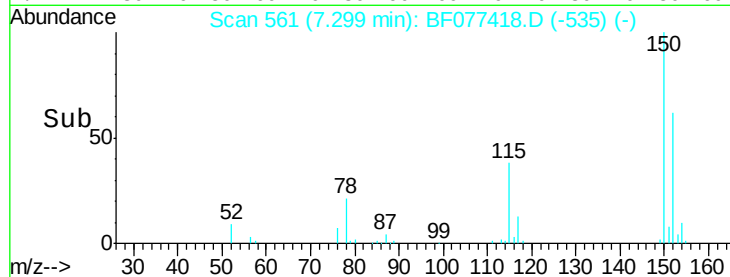
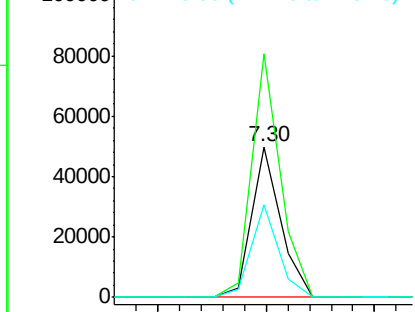
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.30 min Scan# 561  
 Delta R.T. -0.00 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Instrument :  
 BNA\_F  
 ClientSampled :  
 PB81839BL

Tgt Ion:152 Resp: 46271  
 Ion Ratio Lower Upper  
 152 100  
 150 161.5 124.0 186.0  
 115 61.7 49.4 74.2



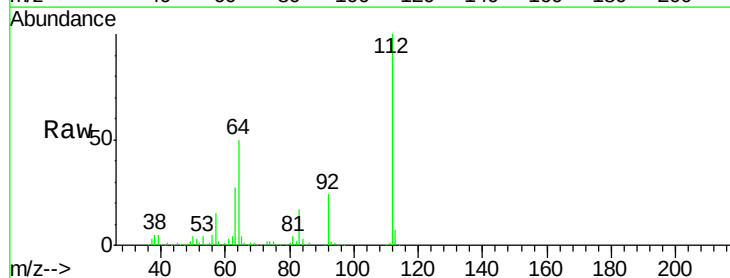
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



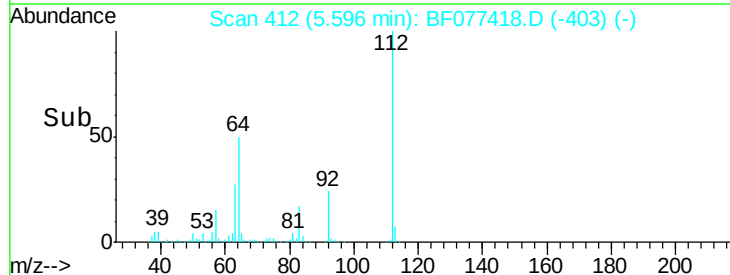
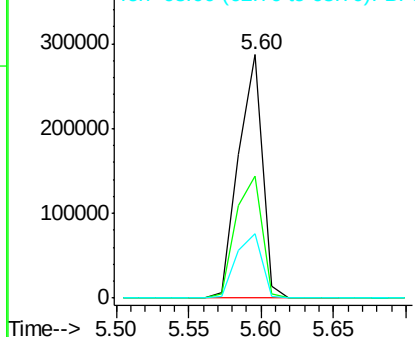
#5

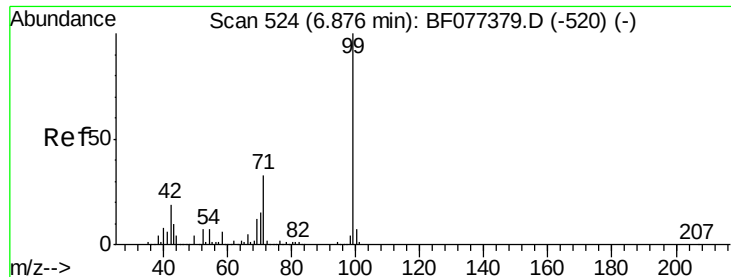
2-Fluorophenol  
 Concen: 118.36 ng  
 RT: 5.60 min Scan# 412  
 Delta R.T. -0.00 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Tgt Ion:112 Resp: 328044  
 Ion Ratio Lower Upper  
 112 100  
 64 50.3 48.5 72.7  
 63 26.6 25.0 37.4



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: 114.89 ng

RT: 6.85 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF077418.D

Acq: 24 Feb 2015 15:32

Instrument :

BNA\_F

ClientSampleId :

PB81839BL

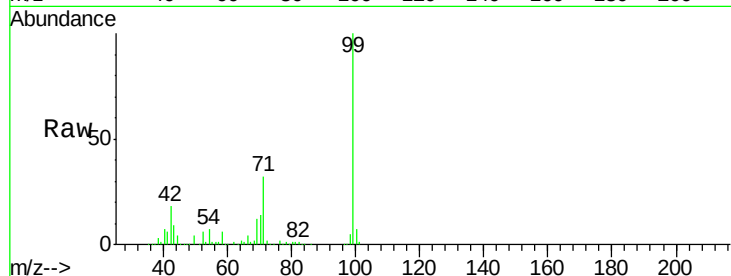
Tgt Ion: 99 Resp: 409411

Ion Ratio Lower Upper

99 100

42 17.8 16.2 24.4

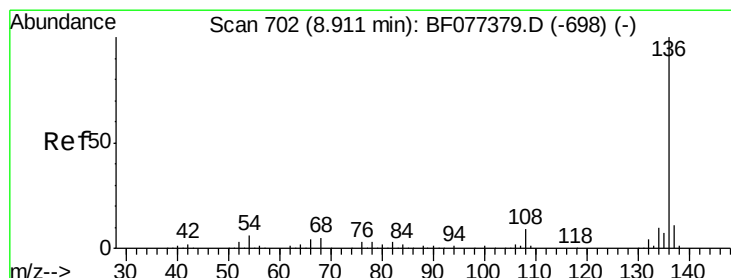
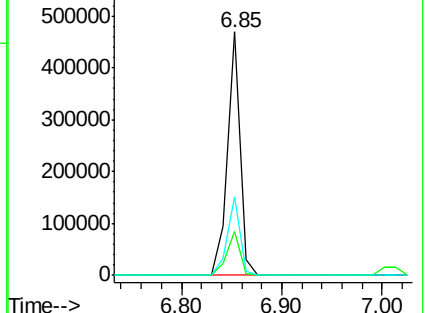
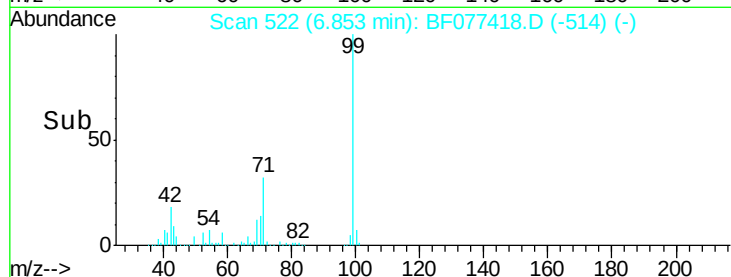
71 32.4 26.7 40.1



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: 8.88 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF077418.D

Acq: 24 Feb 2015 15:32

Tgt Ion: 136 Resp: 189480

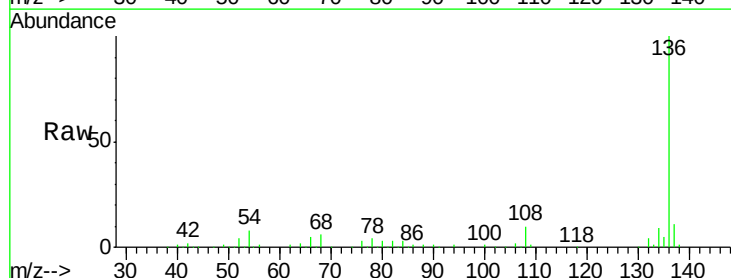
Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 7.7 6.2 9.4

68 6.1 5.0 7.6

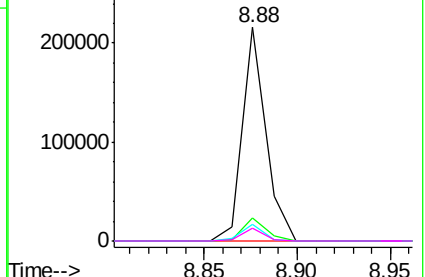
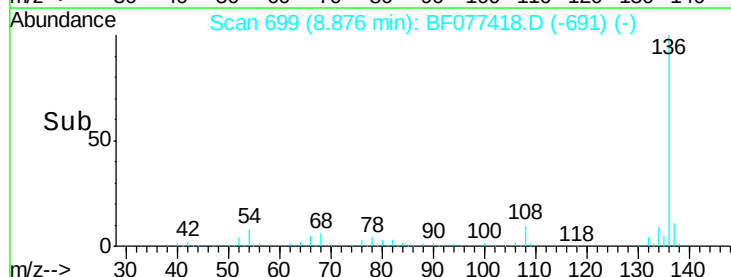


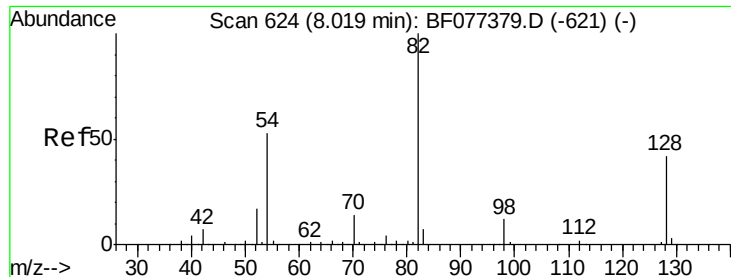
Abundance Ion 136.00 (135.70 to 136.70): E

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

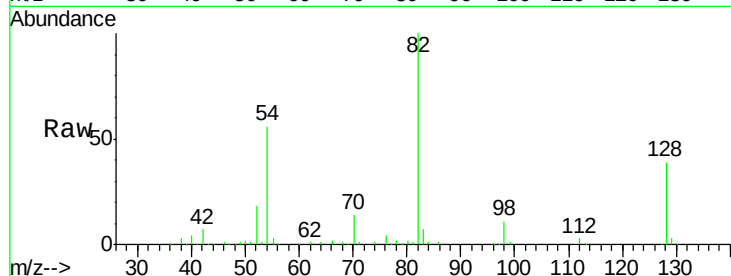




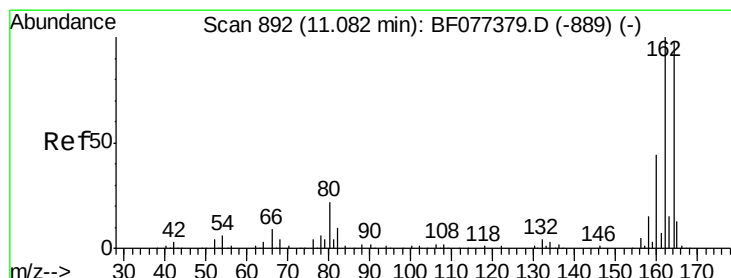
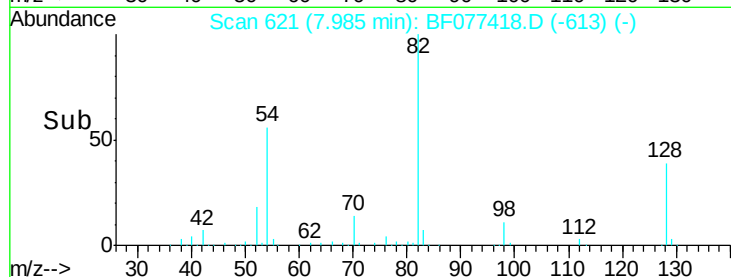
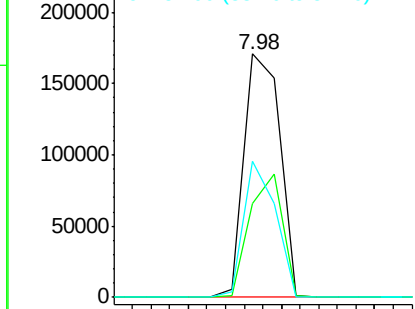
#23  
 Nitrobenzene-d5  
 Concen: 74.82 ng  
 RT: 7.98 min Scan# 621  
 Delta R.T. -0.01 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB81839BL

Tgt Ion: 82 Resp: 227978  
 Ion Ratio Lower Upper  
 82 100  
 128 38.8 43.8 65.8#  
 54 55.9 36.7 55.1#

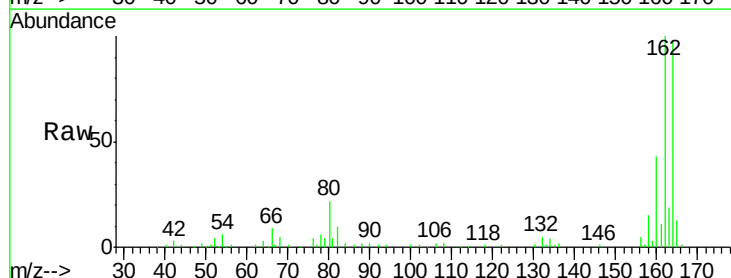


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

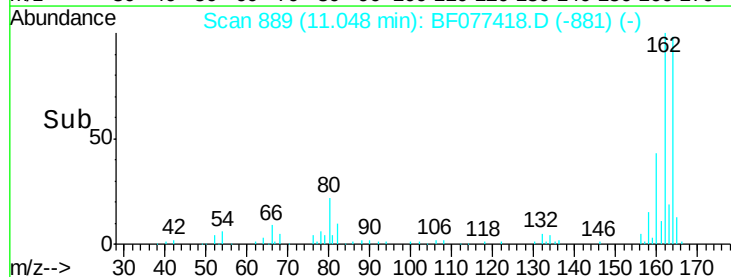
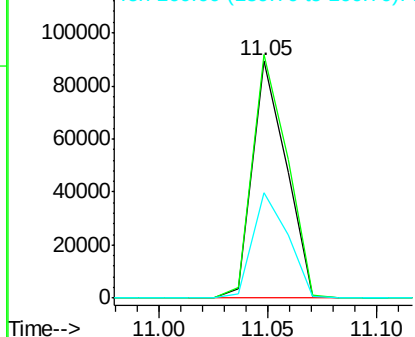


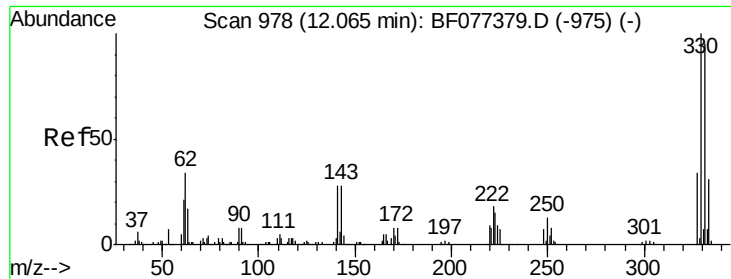
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.05 min Scan# 889  
 Delta R.T. -0.01 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Tgt Ion: 164 Resp: 96737  
 Ion Ratio Lower Upper  
 164 100  
 162 102.4 83.2 124.8  
 160 44.4 34.6 52.0



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

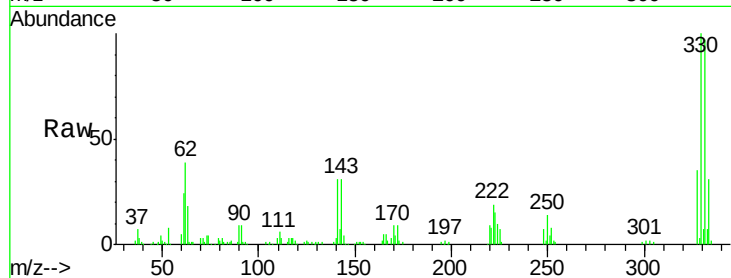




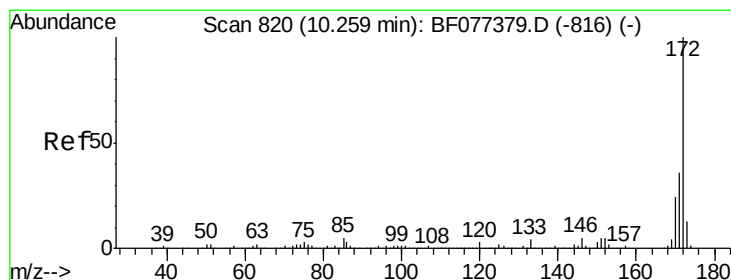
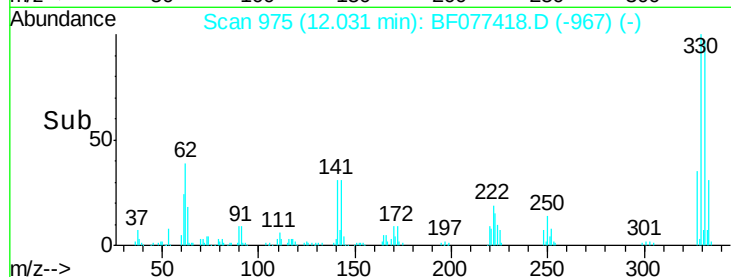
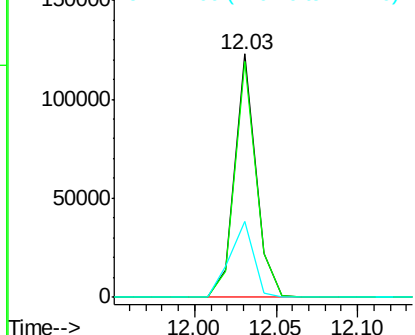
#41  
 2,4,6-Tribromophenol  
 Concen: 118.06 ng  
 RT: 12.03 min Scan# 975  
 Delta R.T. -0.01 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB81839BL

Tgt Ion:330 Resp: 109971  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.4 116.2  
 141 34.8 28.8 43.2

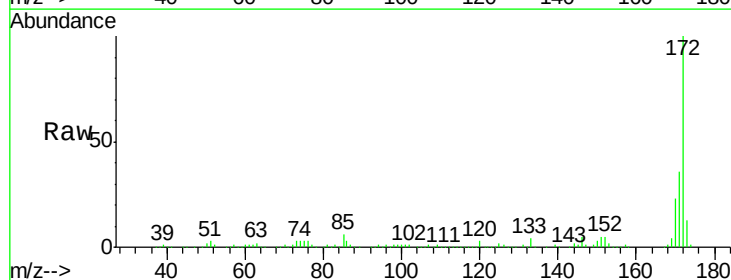


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

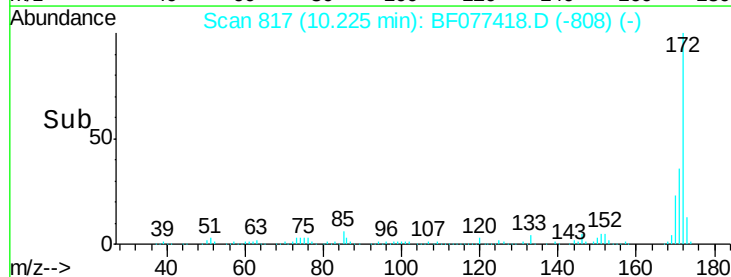
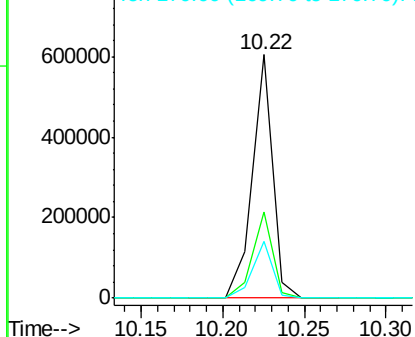


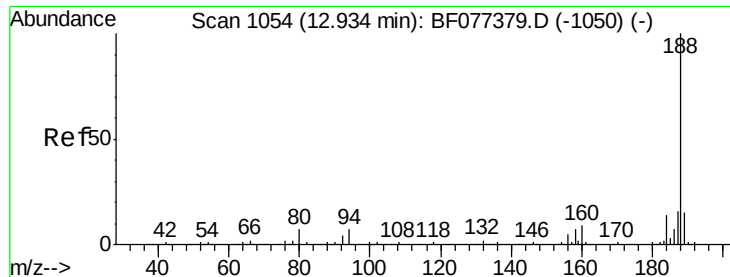
#44  
 2-Fluorobiphenyl  
 Concen: 84.05 ng  
 RT: 10.22 min Scan# 817  
 Delta R.T. -0.00 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Tgt Ion:172 Resp: 521427  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 28.9 43.3  
 170 23.3 19.4 29.2



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

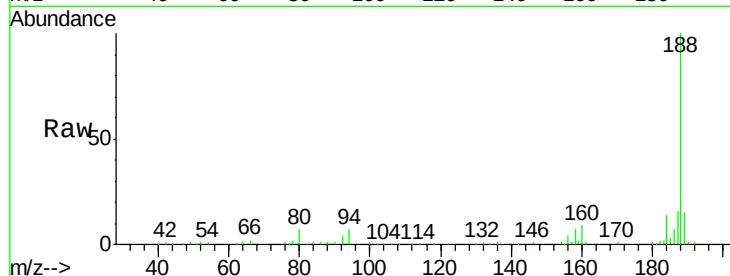




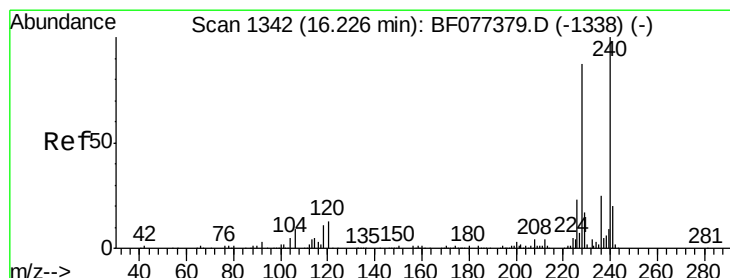
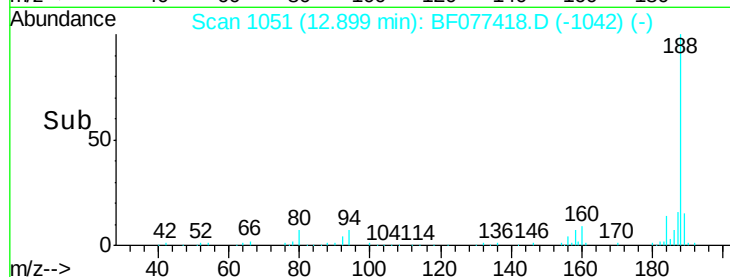
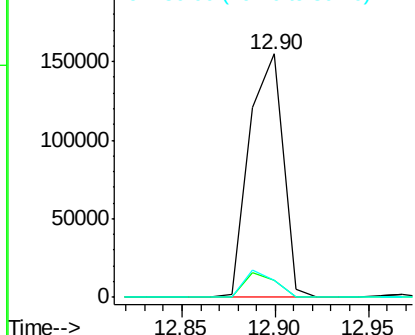
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.90 min Scan# 1051  
Delta R.T. -0.00 min  
Lab File: BF077418.D  
Acq: 24 Feb 2015 15:32

Instrument :  
BNA\_F  
ClientSampleId :  
PB81839BL

Tgt Ion:188 Resp: 194337  
Ion Ratio Lower Upper  
188 100  
94 6.8 7.4 11.2#  
80 7.0 8.0 12.0#

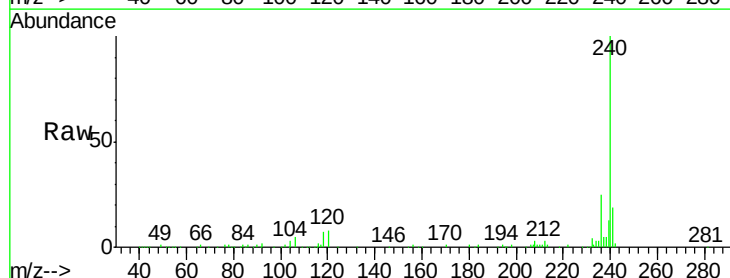


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

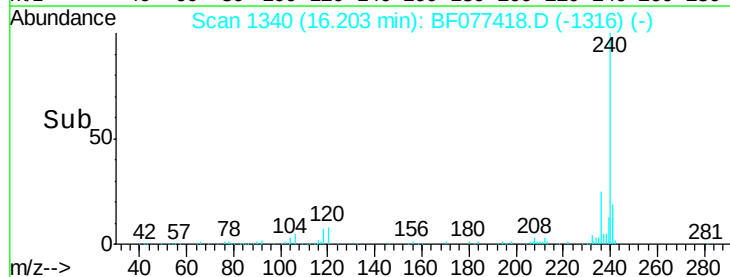
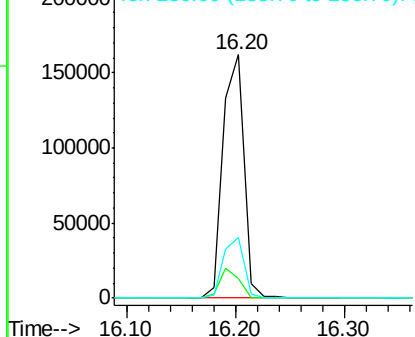


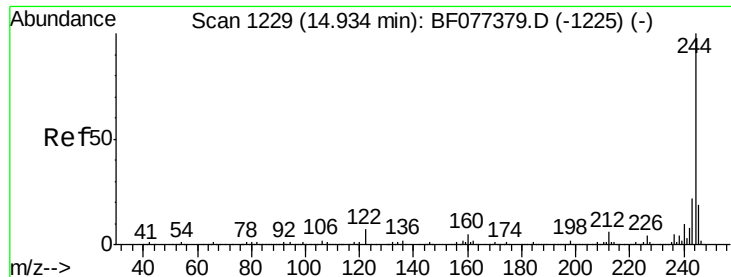
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 16.20 min Scan# 1340  
Delta R.T. -0.02 min  
Lab File: BF077418.D  
Acq: 24 Feb 2015 15:32

Tgt Ion:240 Resp: 216586  
Ion Ratio Lower Upper  
240 100  
120 7.9 8.8 13.2#  
236 24.7 20.7 31.1



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

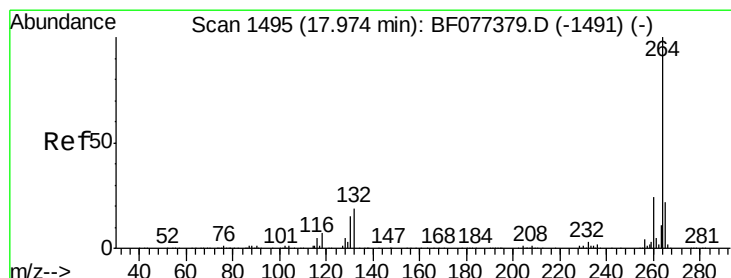
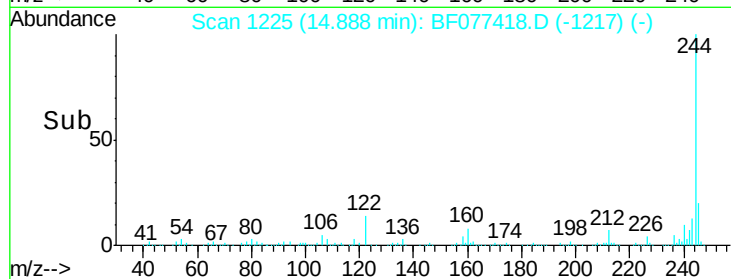
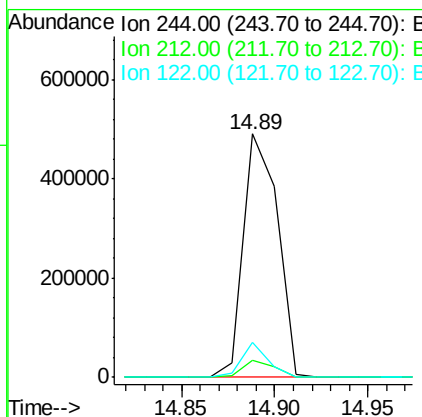
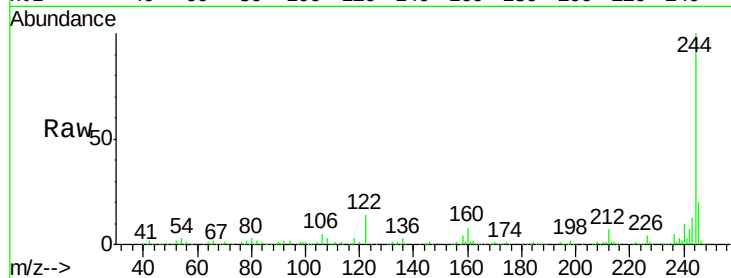




#78  
 Terphenyl-d14  
 Concen: 67.78 ng  
 RT: 14.89 min Scan# 1225  
 Delta R.T. -0.01 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

Instrument :  
 BNA\_F  
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 PB81839BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.2   | 7.8   |
| 122     | 14.1  | 7.8   | 11.8# |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 18.00 min Scan# 1497  
 Delta R.T. -0.06 min  
 Lab File: BF077418.D  
 Acq: 24 Feb 2015 15:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 19.3  | 28.9  |
| 265     | 21.5  | 16.8  | 25.2  |

