

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050415\  
 Data File : BF078915.D  
 Acq On : 4 May 2015 13:34  
 Operator : TP/IZ  
 Sample : G1999-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C7-GW

Quant Time: May 05 01:49:43 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 05 00:58:01 2015  
 Response via : Initial Calibration

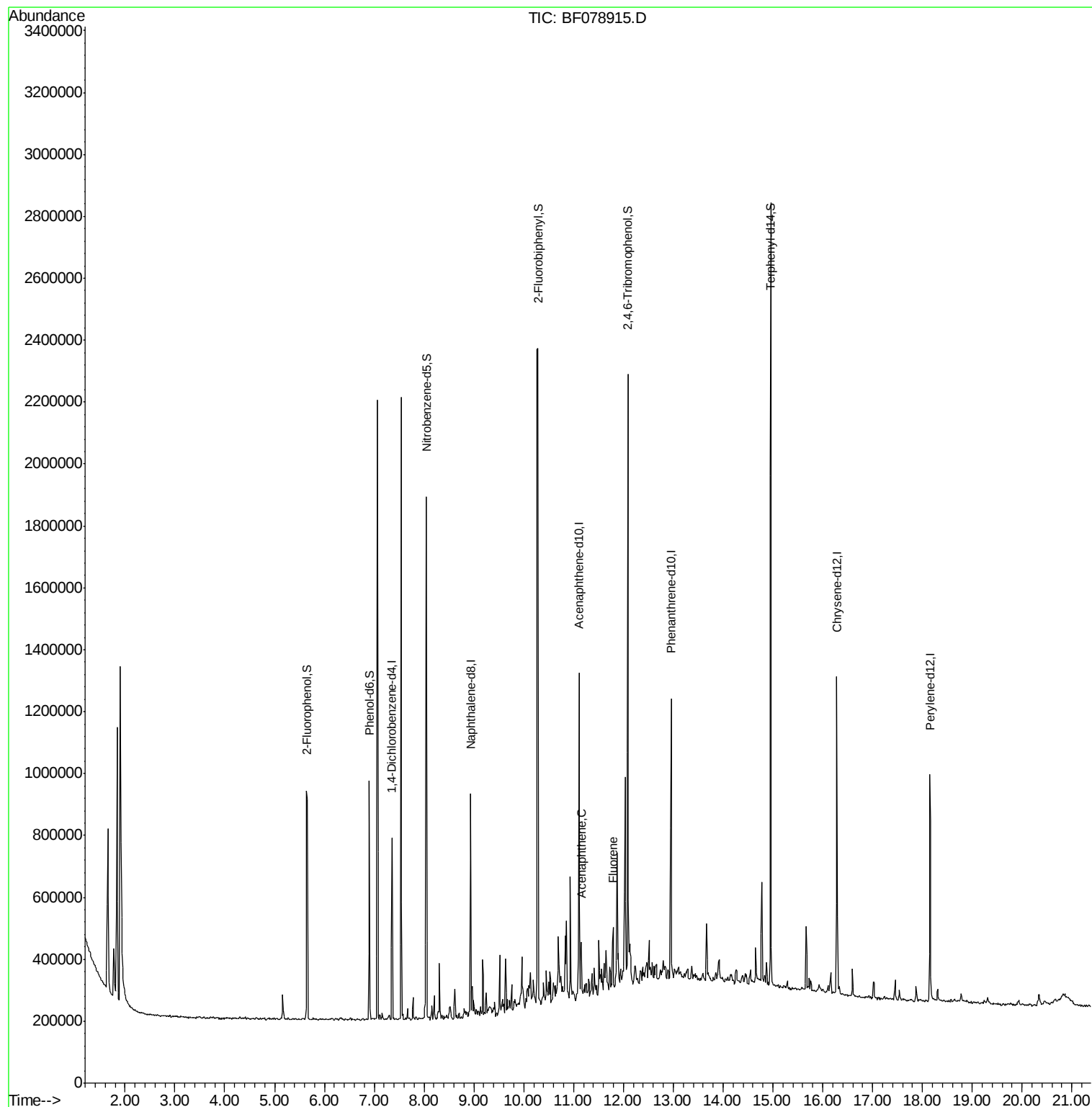
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.36  | 152  | 96460    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.94  | 136  | 407988   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 11.11 | 164  | 207166   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 12.96 | 188  | 398215   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 16.29 | 240  | 402674   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 18.15 | 264  | 407095   | 20.00  | ng    | -0.09    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 306648   | 54.72  | ng    | 0.01     |
| 7) Phenol-d6                | 6.90  | 99   | 267517   | 36.12  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.04  | 82   | 500583   | 70.52  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.09 | 330  | 258946   | 115.54 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.28 | 172  | 1034549  | 69.57  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.96 | 244  | 1064168  | 63.27  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 51) Acenaphthene            | 11.15 | 154  | 36917    | 2.93   | ng    | 99       |
| 57) Fluorene                | 11.79 | 166  | 43949    | 2.95   | ng    | # 99     |

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

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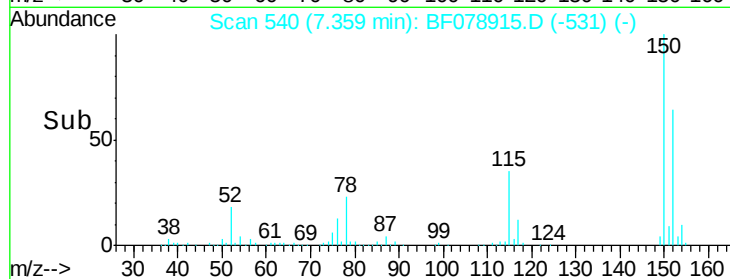
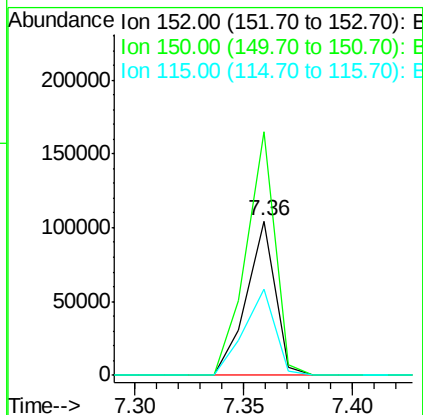
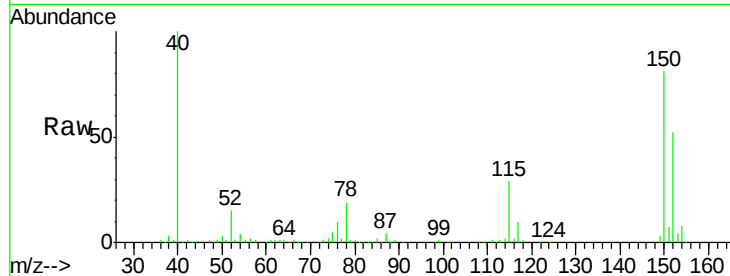


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.36 min Scan# 540  
Delta R.T. 0.00 min  
Lab File: BF078915.D  
Acq: 4 May 2015 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C7-GW

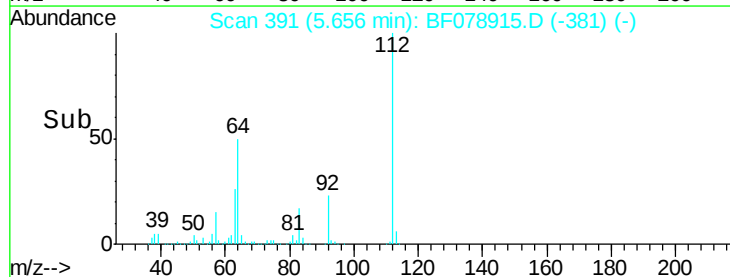
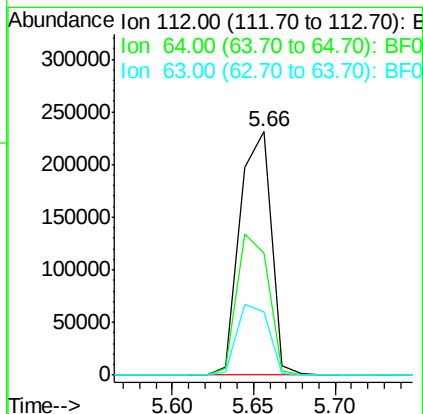
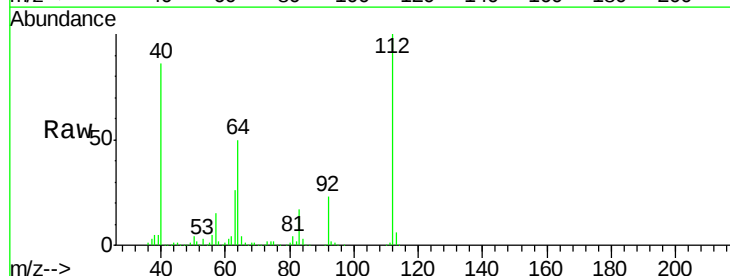
Tot Ion:152 Resp: 96460  
Ion Ratio Lower Upper  
152 100  
150 157.4 122.0 183.0  
115 55.4 46.3 69.5



#5

2-Fluorophenol  
Concen: 54.72 ng  
RT: 5.66 min Scan# 391  
Delta R.T. 0.01 min  
Lab File: BF078915.D  
Acq: 4 May 2015 13:34

Tgt Ion:112 Resp: 306648  
Ion Ratio Lower Upper  
112 100  
64 50.2 53.5 80.3#  
63 26.0 27.5 41.3#





#7

Phenol-d6

Concen: 36.12 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.00 min

Lab File: BF078915.D

Acq: 4 May 2015 13:34

Instrument :

BNA\_F

ClientSampleId :

OWL-C7-GW

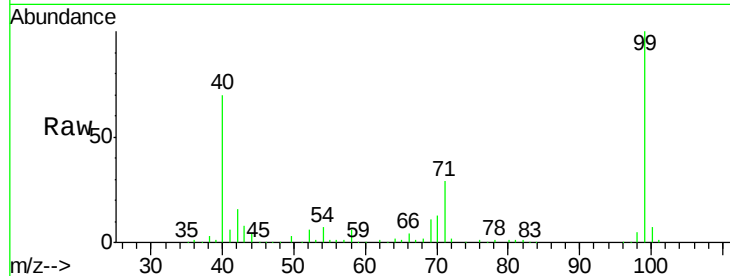
Tot Ion: 99 Resp: 267517

Ion Ratio Lower Upper

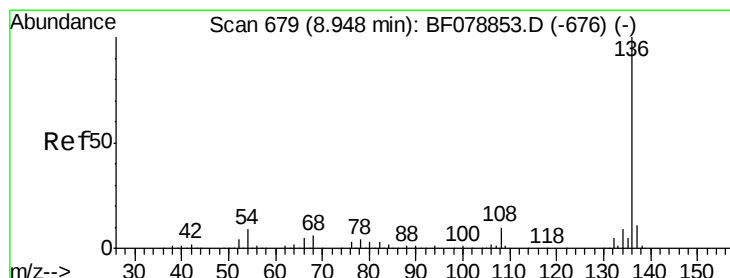
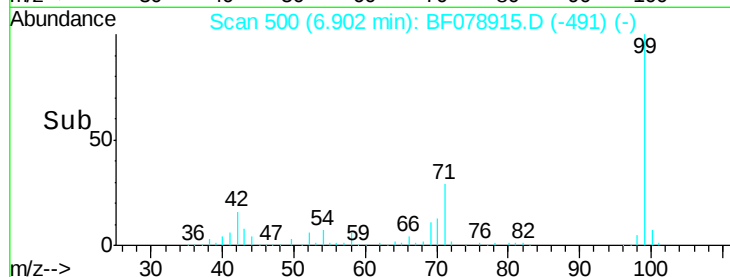
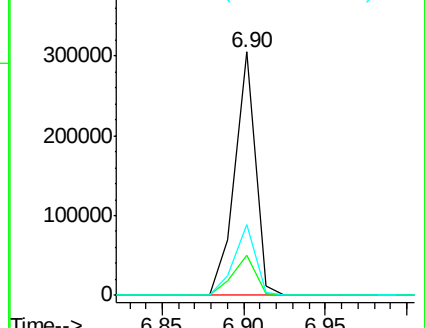
99 100

42 16.3 12.8 19.2

71 29.3 23.4 35.2



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: 8.94 min Scan# 678

Delta R.T. 0.00 min

Lab File: BF078915.D

Acq: 4 May 2015 13:34

Tgt Ion: 136 Resp: 407988

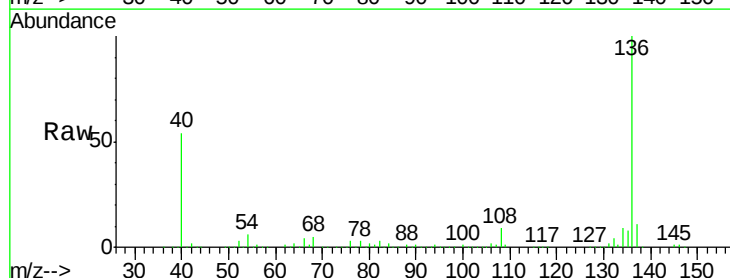
Ion Ratio Lower Upper

136 100

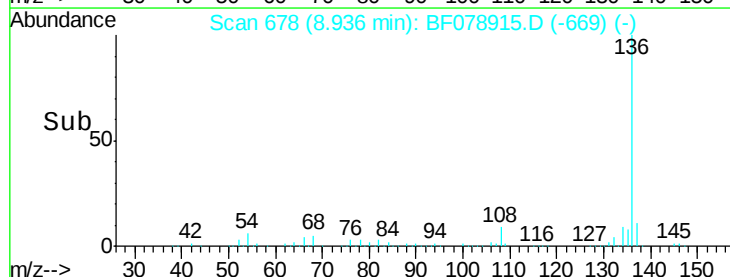
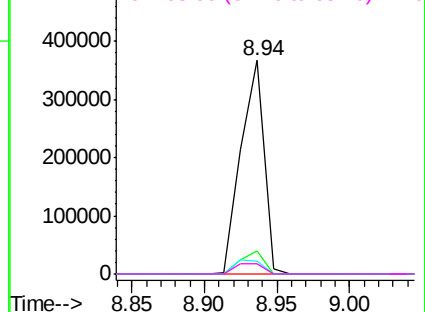
137 10.7 8.7 13.1

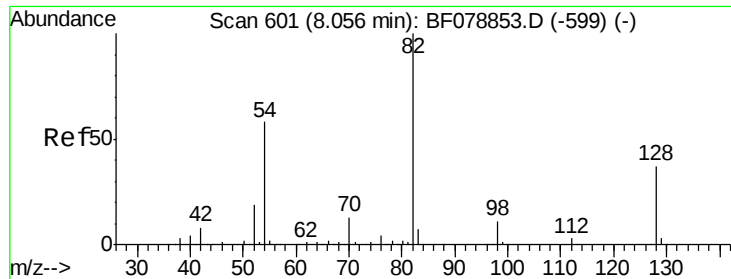
54 6.1 5.8 8.8

68 4.6 4.2 6.4



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

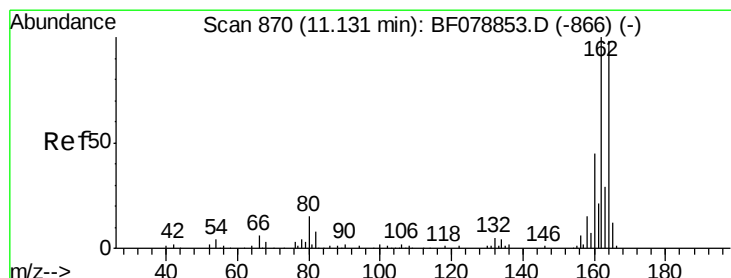
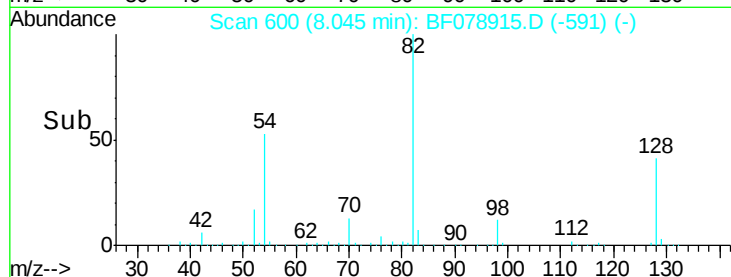
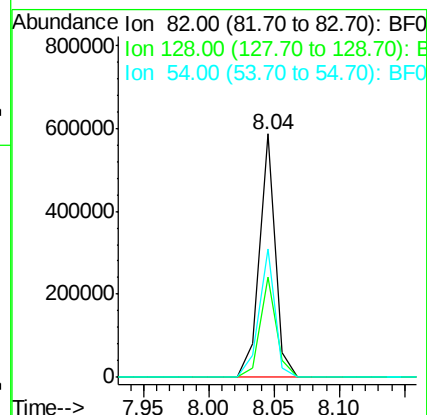
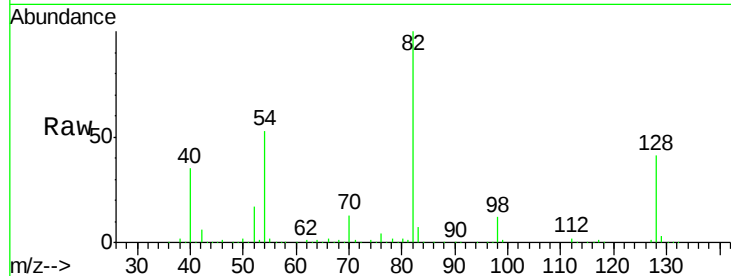




#23  
 Nitrobenzene-d5  
 Concen: 70.52 ng  
 RT: 8.04 min Scan# 600  
 Delta R.T. 0.00 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

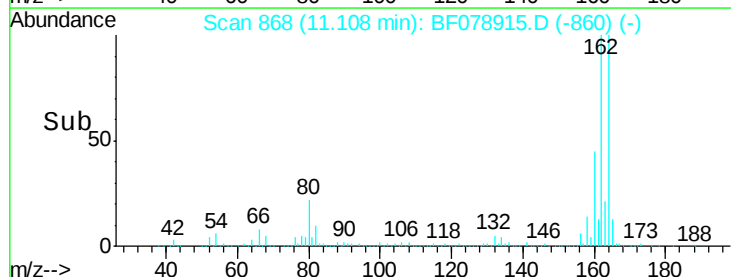
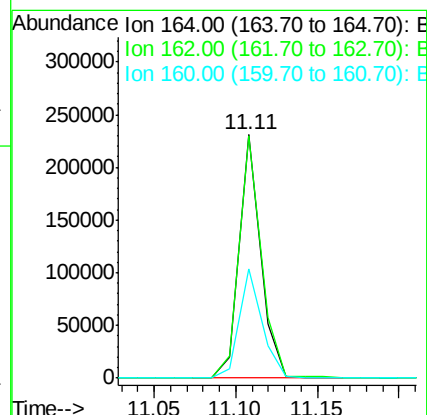
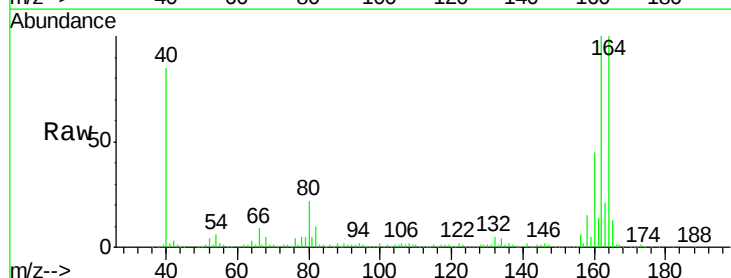
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C7-GW

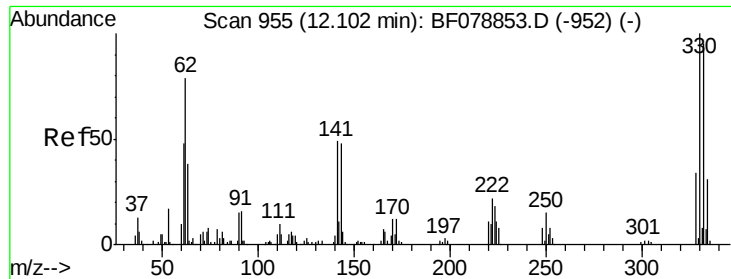
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 41.3  | 30.0  | 45.0  |
| 54      | 52.9  | 46.4  | 69.6  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.11 min Scan# 868  
 Delta R.T. -0.01 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.7  | 82.7  | 124.1 |
| 160     | 44.7  | 35.8  | 53.8  |

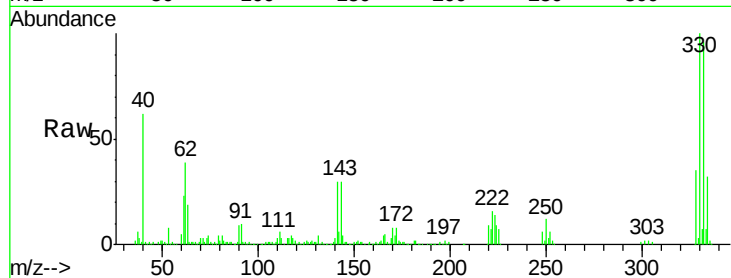




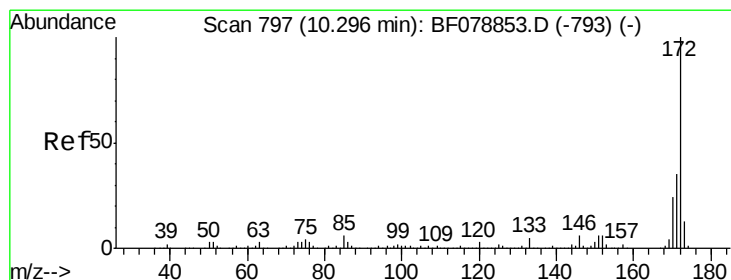
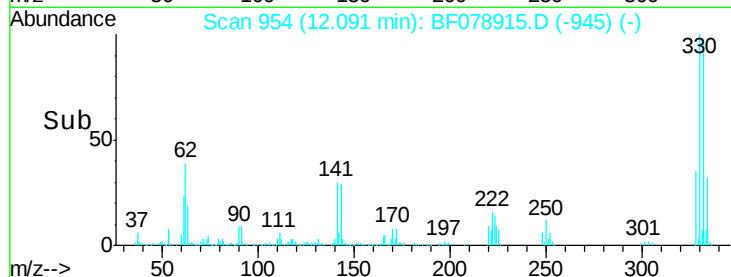
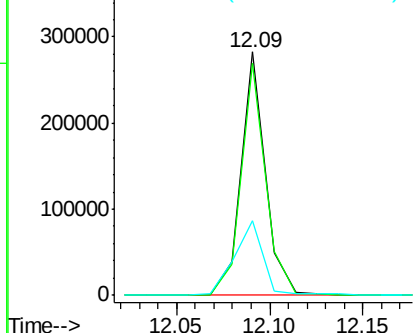
#41  
 2,4,6-Tribromophenol  
 Concen: 115.54 ng  
 RT: 12.09 min Scan# 954  
 Delta R.T. 0.00 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C7-GW

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 0.0   | 0.0#  |
| 141     | 34.8  | 0.0   | 0.0#  |

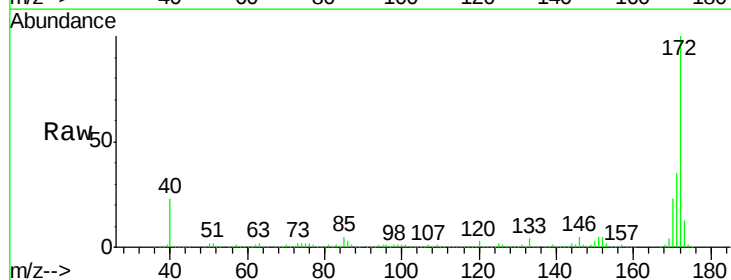


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

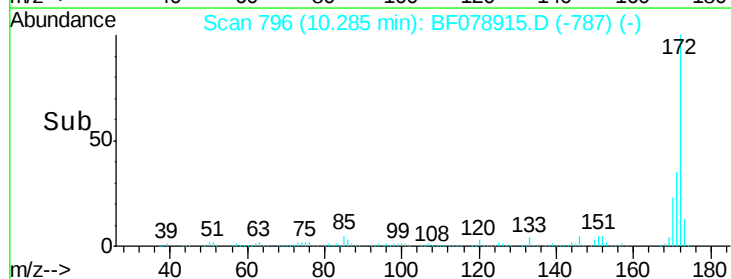
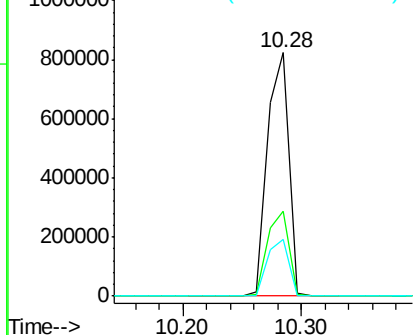


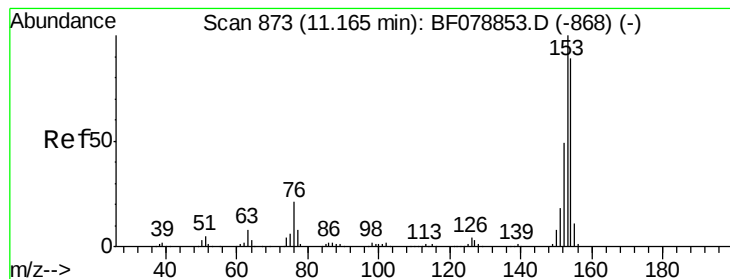
#44  
 2-Fluorobiphenyl  
 Concen: 69.57 ng  
 RT: 10.28 min Scan# 796  
 Delta R.T. 0.00 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.7  | 27.9  | 41.9  |
| 170     | 23.5  | 19.4  | 29.0  |



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





#51

Acenaphthene

Concen: 2.93 ng

RT: 11.15 min Scan# 872

Delta R.T. 0.00 min

Lab File: BF078915.D

Acq: 4 May 2015 13:34

Instrument :

BNA\_F

ClientSampleId :

OWL-C7-GW

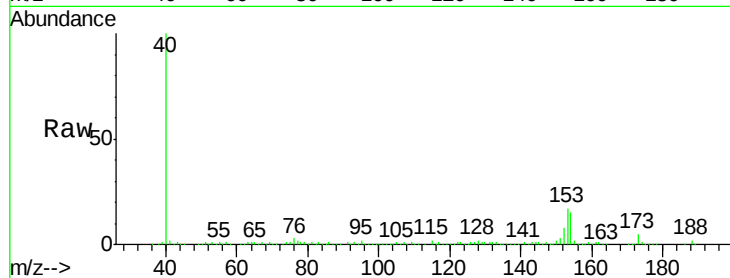
Tot Ion:154 Resp: 36917

Ion Ratio Lower Upper

154 100

153 112.9 91.5 137.3

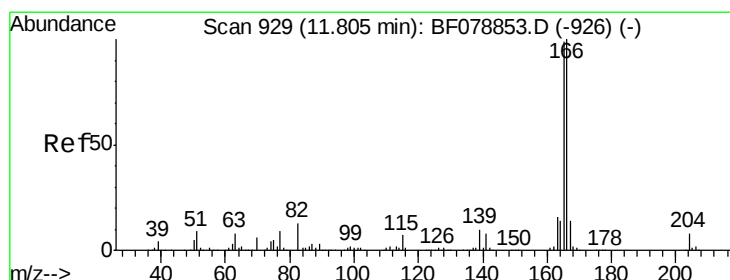
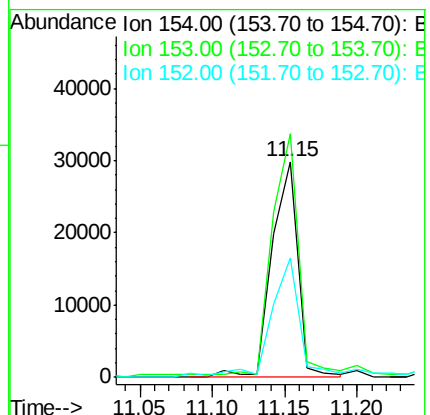
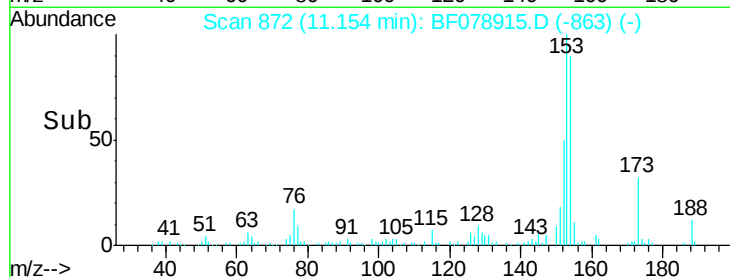
152 55.3 44.2 66.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 2.95 ng

RT: 11.79 min Scan# 928

Delta R.T. 0.00 min

Lab File: BF078915.D

Acq: 4 May 2015 13:34

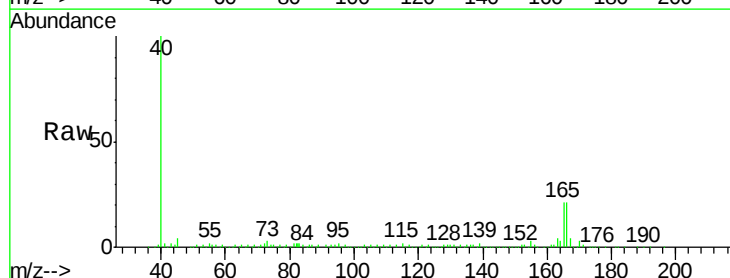
Tgt Ion:166 Resp: 43949

Ion Ratio Lower Upper

166 100

165 97.4 78.5 117.7

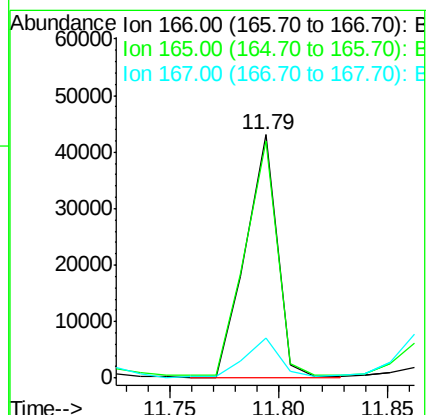
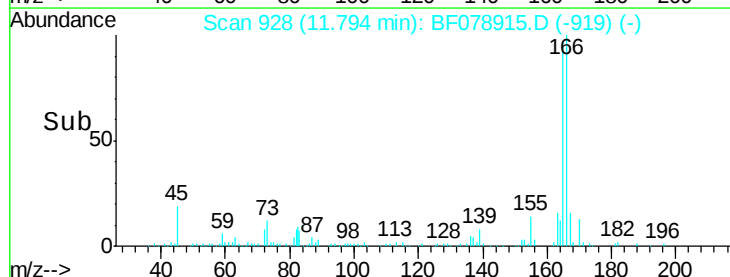
167 16.6 11.0 16.6#

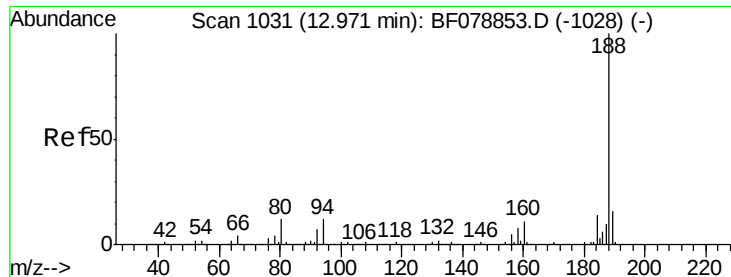


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

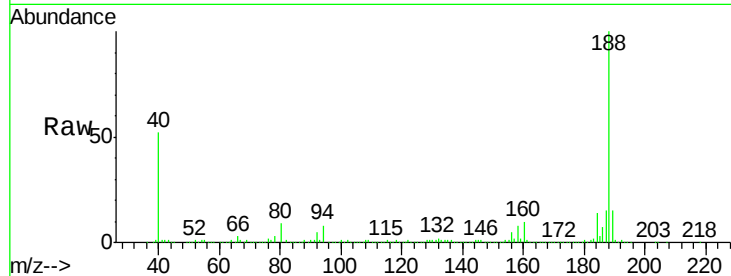




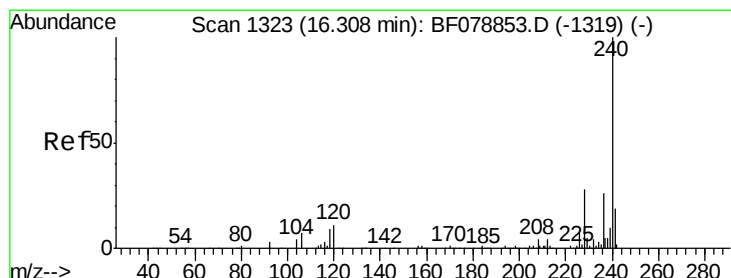
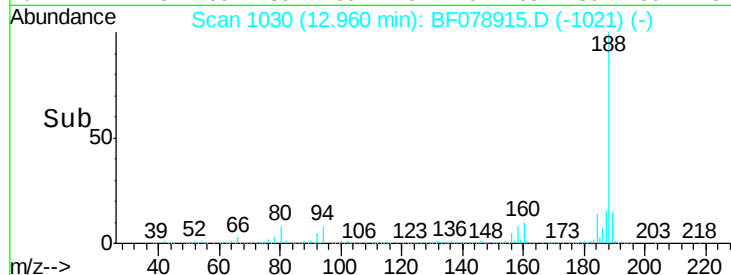
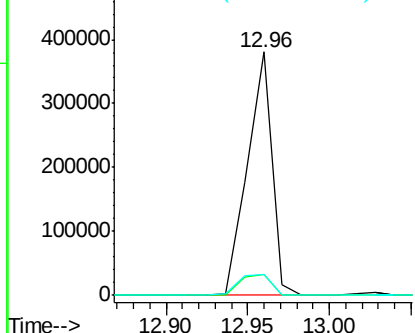
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.96 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: BF078915.D  
Acq: 4 May 2015 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
OWL-C7-GW

Tot Ion:188 Resp: 398215  
Ion Ratio Lower Upper  
188 100  
94 8.5 8.2 12.2  
80 8.5 8.9 13.3#

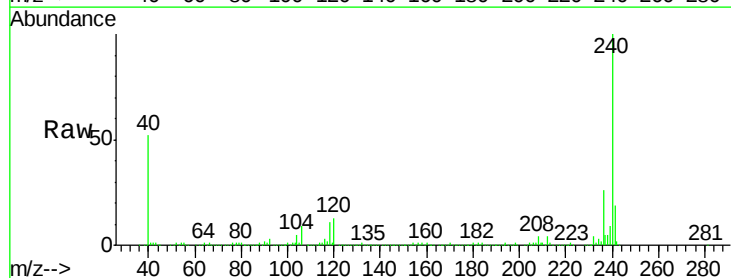


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

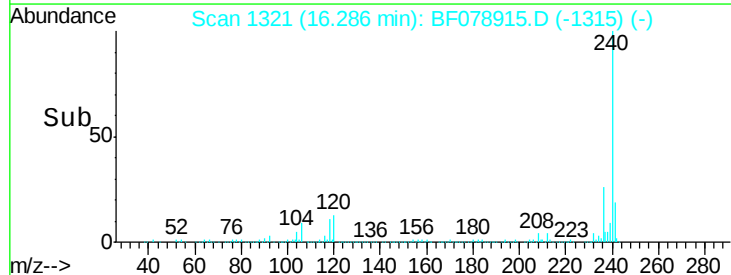
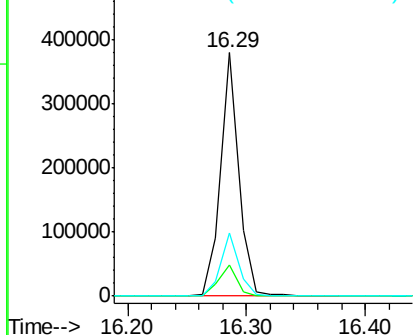


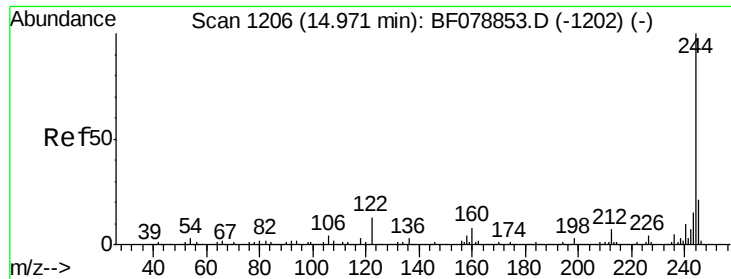
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 16.29 min Scan# 1321  
Delta R.T. -0.03 min  
Lab File: BF078915.D  
Acq: 4 May 2015 13:34

Tgt Ion:240 Resp: 402674  
Ion Ratio Lower Upper  
240 100  
120 13.0 9.7 14.5  
236 25.9 20.2 30.4



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

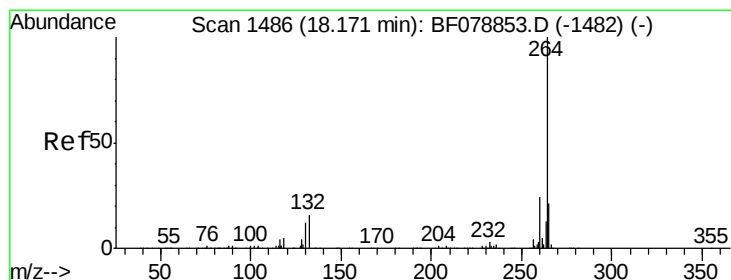
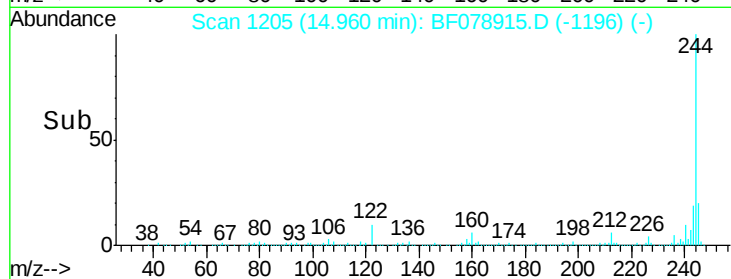
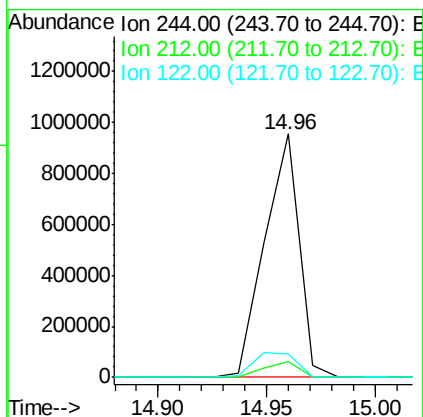
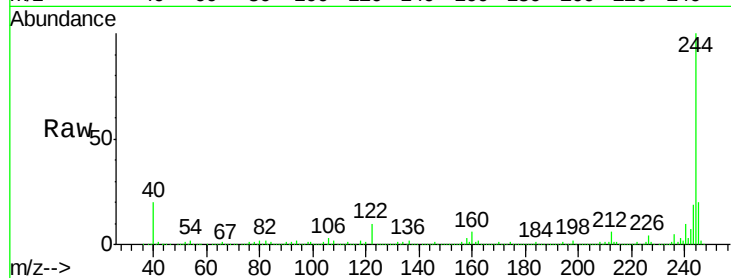




#78  
 Terphenyl-d14  
 Concen: 63.27 ng  
 RT: 14.96 min Scan# 1205  
 Delta R.T. 0.00 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OWL-C7-GW

Tot Ion:244 Resp: 1064168  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.6 8.4  
 122 9.6 10.3 15.5#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 18.15 min Scan# 1484  
 Delta R.T. -0.09 min  
 Lab File: BF078915.D  
 Acq: 4 May 2015 13:34

Tgt Ion:264 Resp: 407095  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 19.4 29.2  
 265 21.3 18.3 27.5

