

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032315\  
 Data File : BF077894.D  
 Acq On : 23 Mar 2015 15:05  
 Operator : TP/IZ  
 Sample : G1589-02DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-2DL

Quant Time: Mar 24 03:21:57 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 24 02:23:28 2015  
 Response via : Initial Calibration

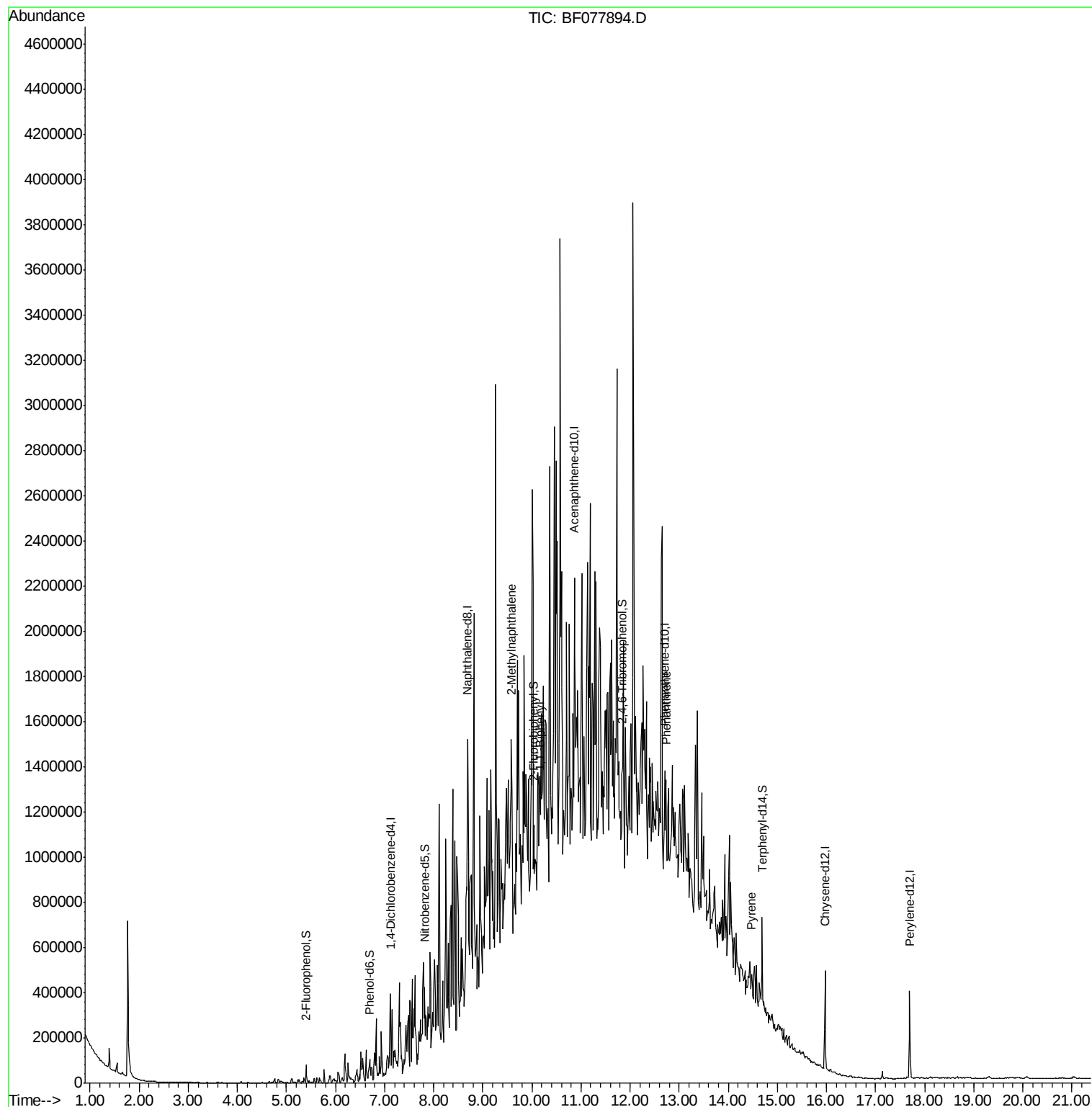
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.12  | 152  | 40548    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.69  | 136  | 148609   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.86 | 164  | 75287    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.70 | 188  | 148721   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 15.97 | 240  | 173152   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 17.70 | 264  | 175083   | 20.00 | ng    | -0.13    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.40  | 112  | 28182    | 12.13 | ng    | 0.00     |
| 7) Phenol-d6                | 6.69  | 99   | 21407    | 7.46  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.81  | 82   | 72716    | 32.07 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.85 | 330  | 19873    | 27.59 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.04 | 172  | 120269   | 23.48 | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.69 | 244  | 141184   | 19.92 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 37) 2-Methylnaphthalene     | 9.58  | 142  | 152285   | 29.70 | ng    | 98       |
| 45) 1,1'-Biphenyl           | 10.17 | 154  | 79098    | 13.14 | ng    | 98       |
| 70) Phenanthrene            | 12.74 | 178  | 284995   | 33.38 | ng    | 97       |
| 77) Pyrene                  | 14.48 | 202  | 30042m   | 2.76  | ng    |          |

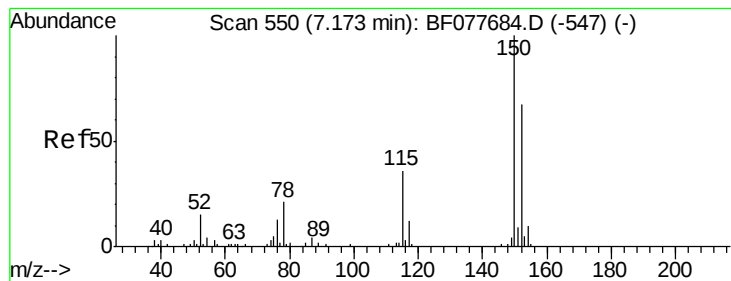
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032315\  
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ALS Vial : 4 Sample Multiplier: 1

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MW-2DL

Quant Time: Mar 24 03:21:57 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 24 02:23:28 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

Instrument :

BNA\_F

ClientSampleId :

MW-2DL

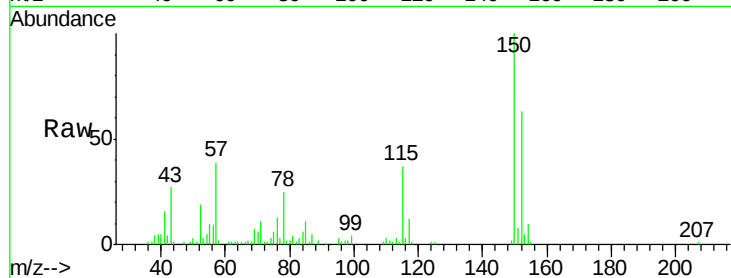
Tot Ion:152 Resp: 40548

Ion Ratio Lower Upper

152 100

150 159.5 119.5 179.3

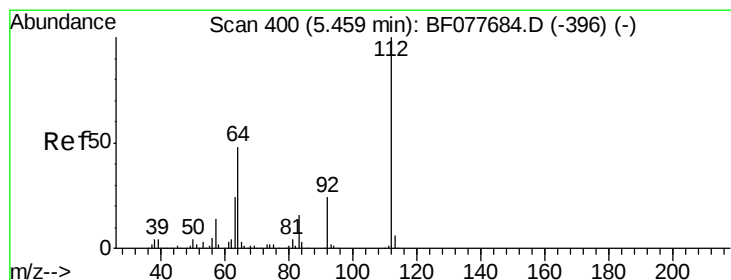
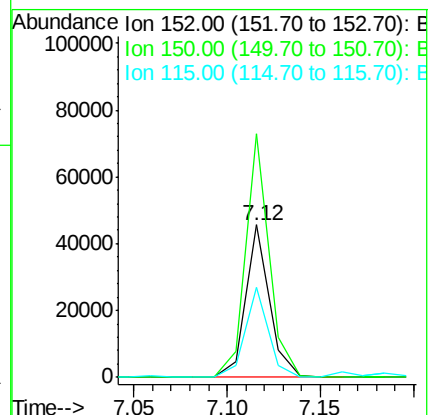
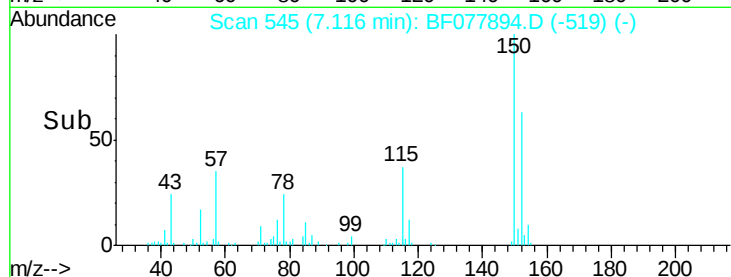
115 59.4 43.0 64.4



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: 12.13 ng

RT: 5.40 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

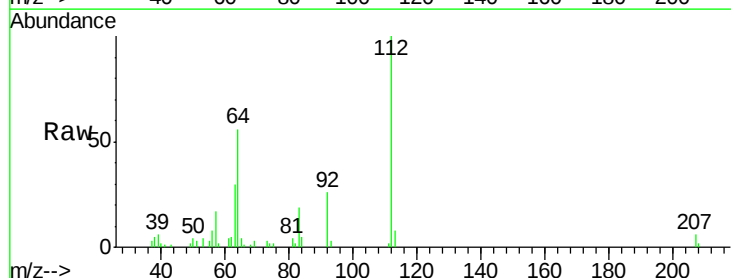
Tgt Ion:112 Resp: 28182

Ion Ratio Lower Upper

112 100

64 56.5 38.6 57.8

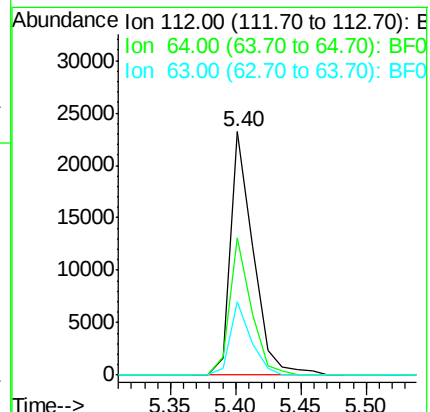
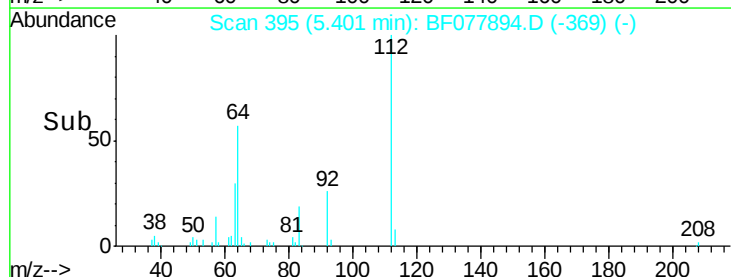
63 29.9 19.3 28.9#

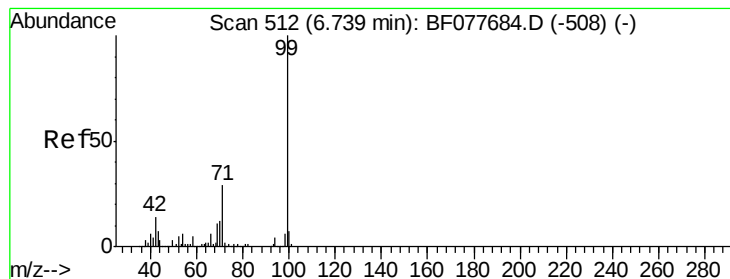


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 7.46 ng

RT: 6.69 min Scan# 508

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

Instrument :

BNA\_F

ClientSampleId :

MW-2DL

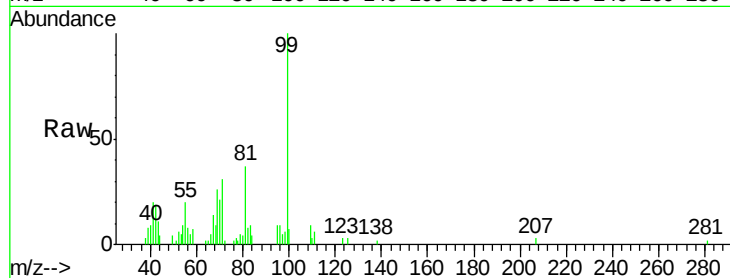
Tot Ion: 99 Resp: 21407

Ion Ratio Lower Upper

99 100

42 19.3 11.0 16.4#

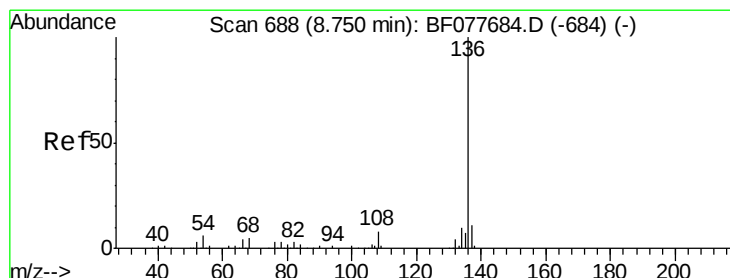
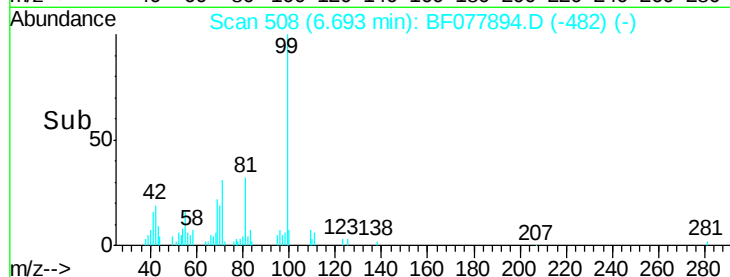
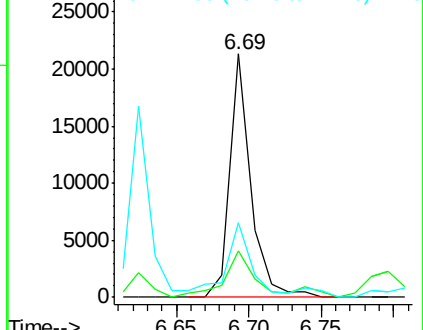
71 30.7 23.4 35.2



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: 8.69 min Scan# 683

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

Tgt Ion: 136 Resp: 148609

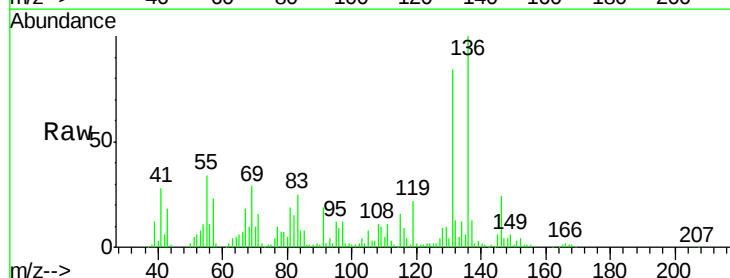
Ion Ratio Lower Upper

136 100

137 12.7 8.7 13.1

54 11.2 4.6 6.8#

68 10.2 3.7 5.5#

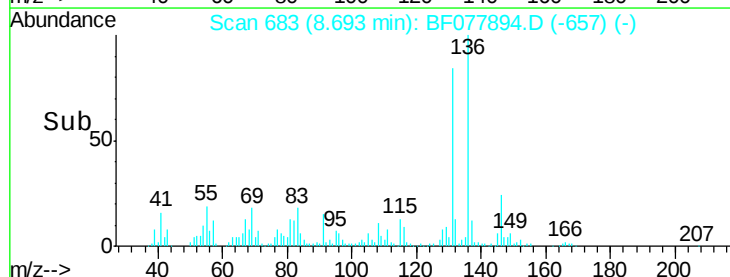
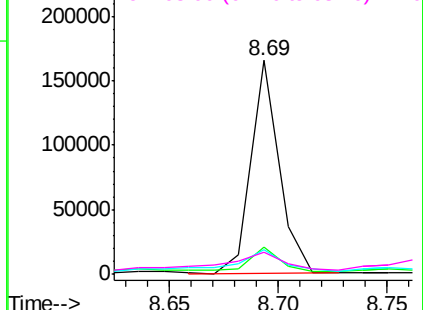


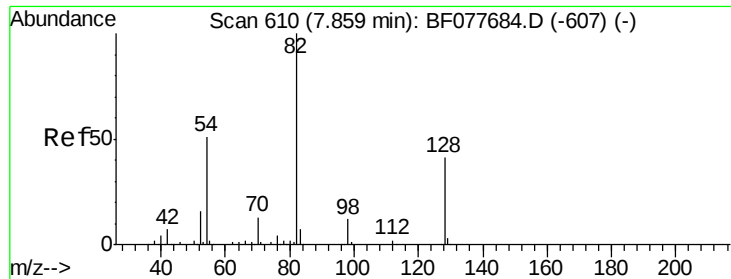
Abundance Ion 136.00 (135.70 to 136.70): E

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

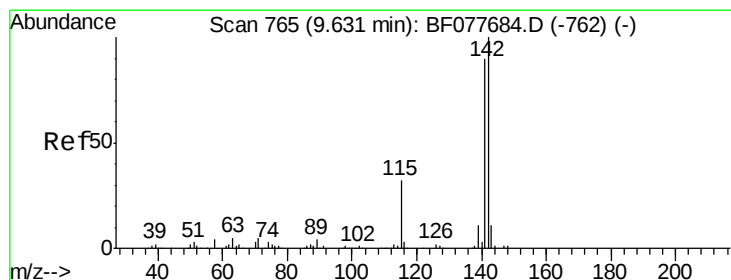
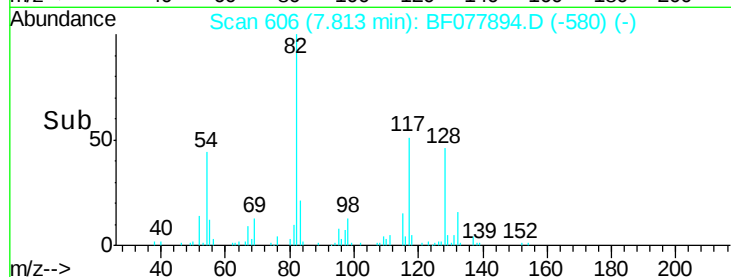
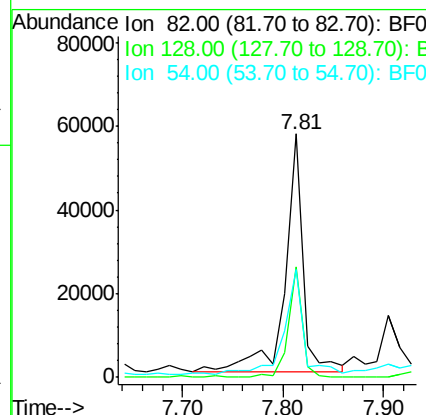
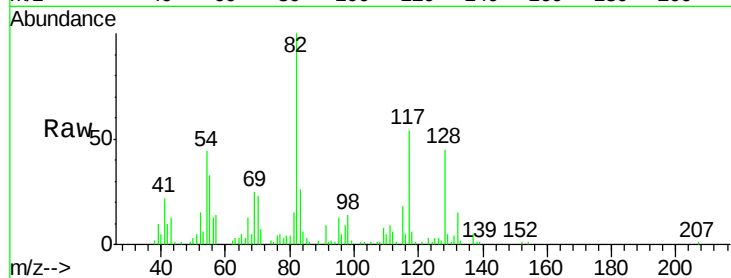




#23  
Nitrobenzene-d5  
Concen: 32.07 ng  
RT: 7.81 min Scan# 606  
Delta R.T. -0.00 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

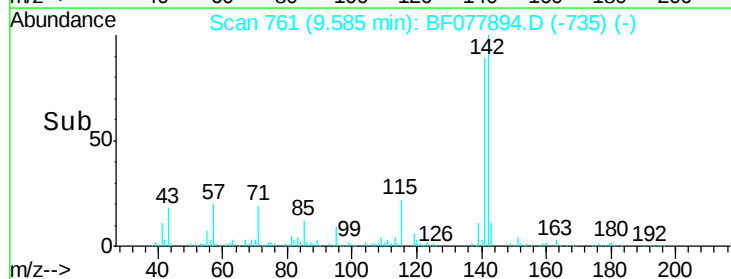
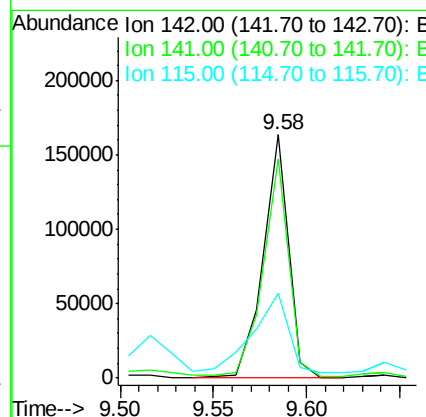
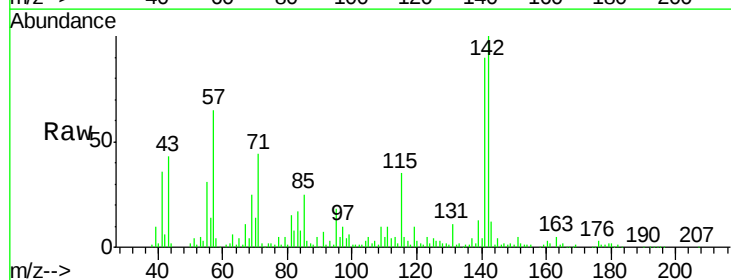
Instrument :  
BNA\_F  
ClientSampled :  
MW-2DL

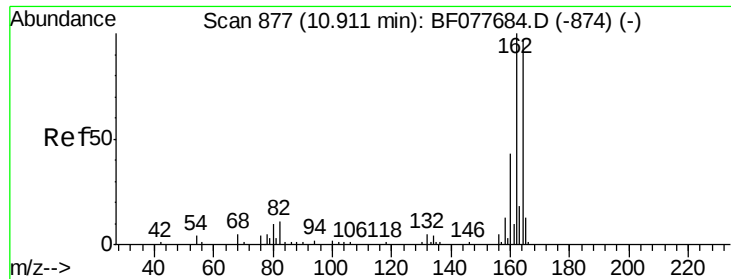
| Tot Ion   | 82   | Resp  | 72716 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 128       | 45.2 | 32.8  | 49.2  |
| 54        | 44.5 | 40.6  | 60.8  |



#37  
2-Methylnaphthalene  
Concen: 29.70 ng  
RT: 9.58 min Scan# 761  
Delta R.T. -0.00 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

| Tgt Ion   | 142  | Resp  | 152285 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 141       | 90.2 | 71.9  | 107.9  |
| 115       | 34.8 | 25.4  | 38.0   |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.86 min Scan# 873

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

Instrument :

BNA\_F

ClientSampleId :

MW-2DL

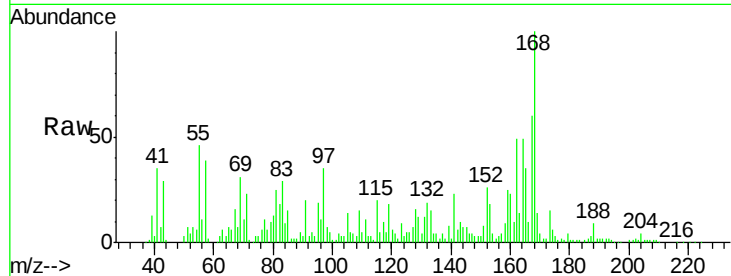
Tot Ion:164 Resp: 75287

Ion Ratio Lower Upper

164 100

162 99.9 82.4 123.6

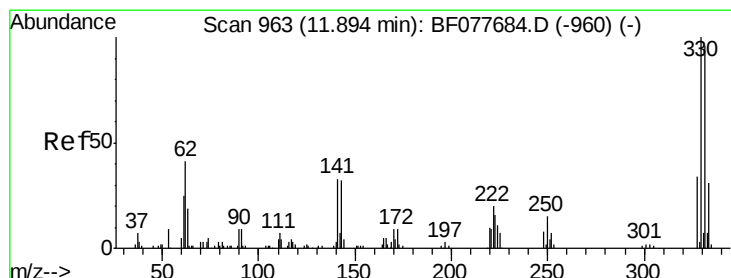
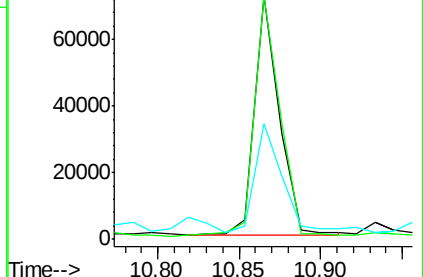
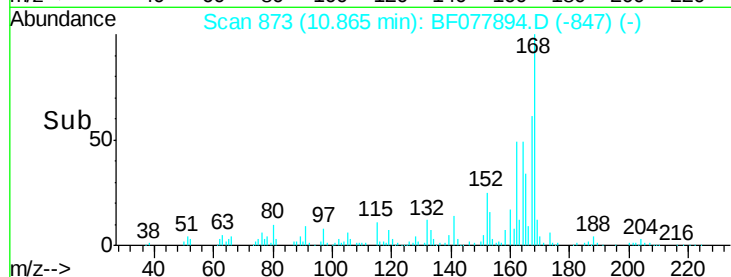
160 47.3 35.8 53.6



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: 27.59 ng

RT: 11.85 min Scan# 959

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

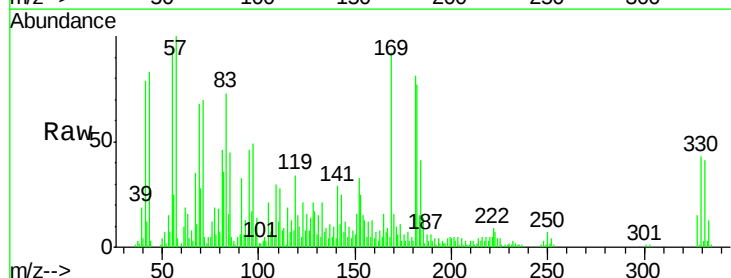
Tgt Ion:330 Resp: 19873

Ion Ratio Lower Upper

330 100

332 96.2 0.0 0.0#

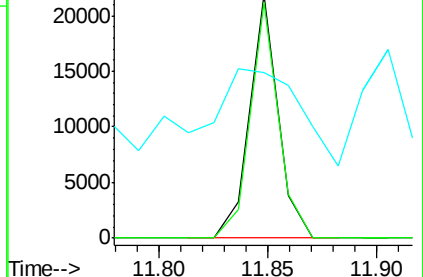
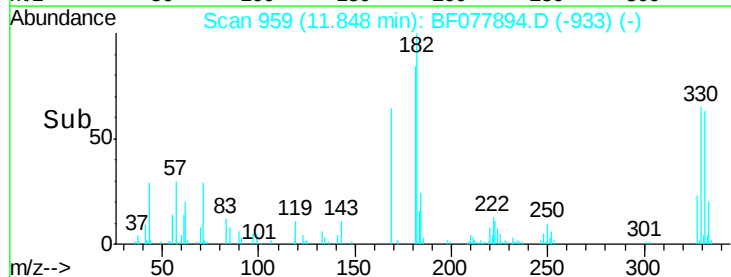
141 135.5 0.0 0.0#

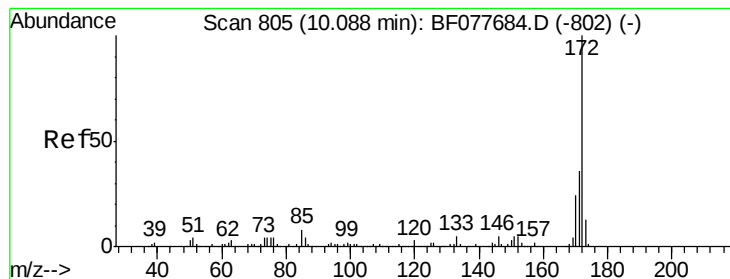


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

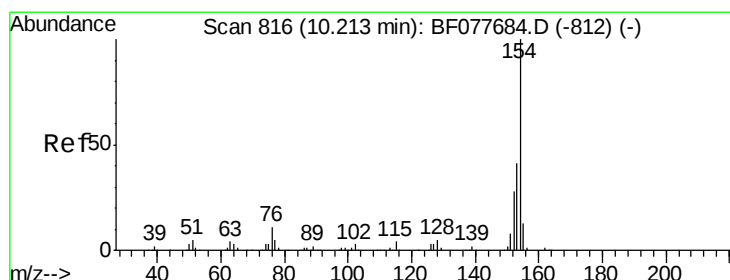
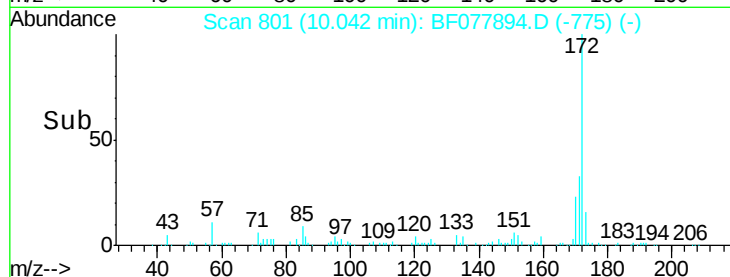
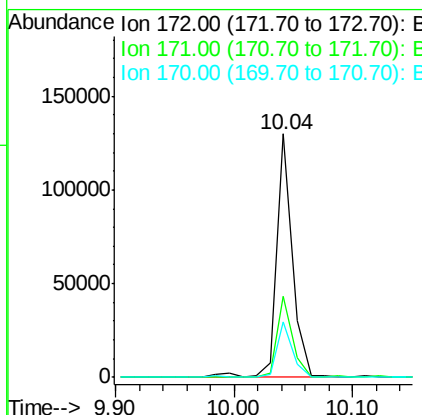
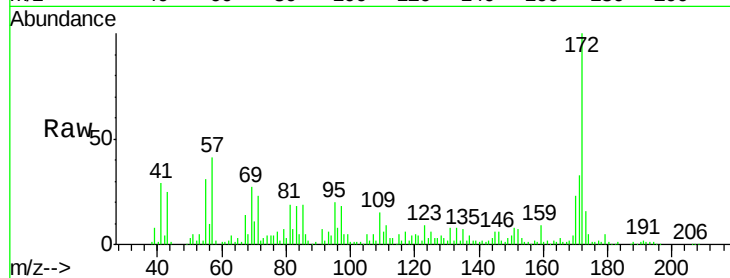




#44  
2-Fluorobiphenyl  
Concen: 23.48 ng  
RT: 10.04 min Scan# 801  
Delta R.T. -0.00 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

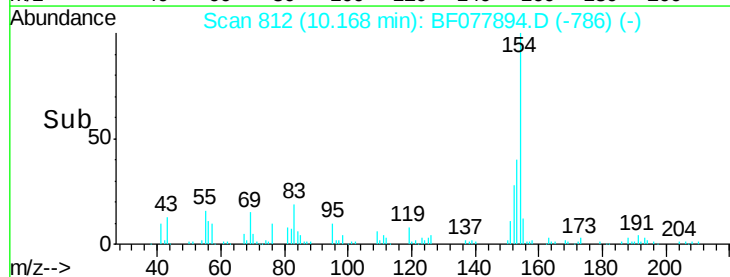
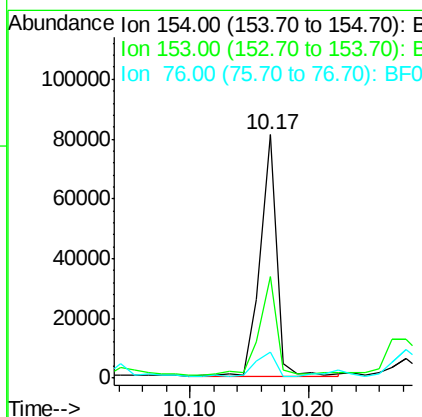
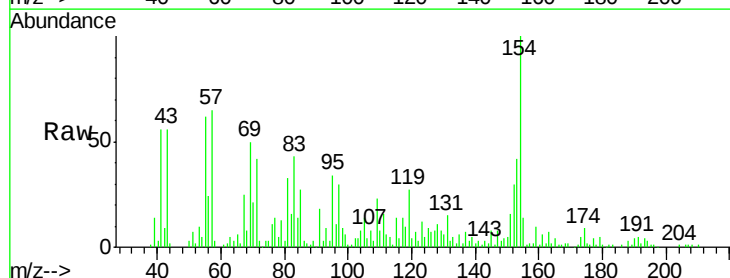
Instrument :  
BNA\_F  
ClientSampleId :  
MW-2DL

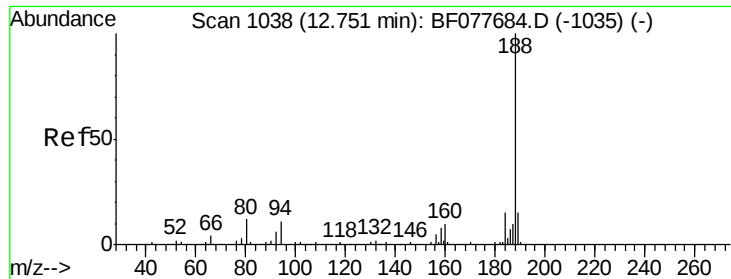
Tot Ion:172 Resp: 120269  
Ion Ratio Lower Upper  
172 100  
171 33.5 28.5 42.7  
170 22.8 18.8 28.2



#45  
1,1'-Biphenyl  
Concen: 13.14 ng  
RT: 10.17 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

Tgt Ion:154 Resp: 79098  
Ion Ratio Lower Upper  
154 100  
153 42.0 20.7 60.7  
76 10.8 0.0 30.9

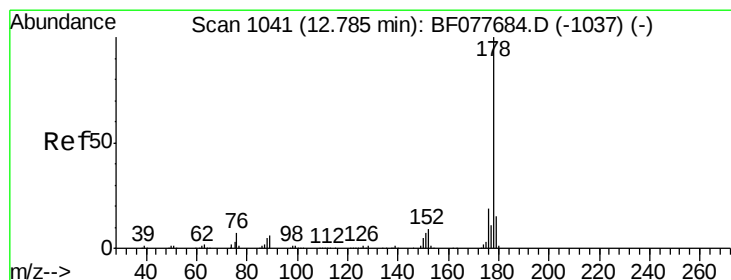
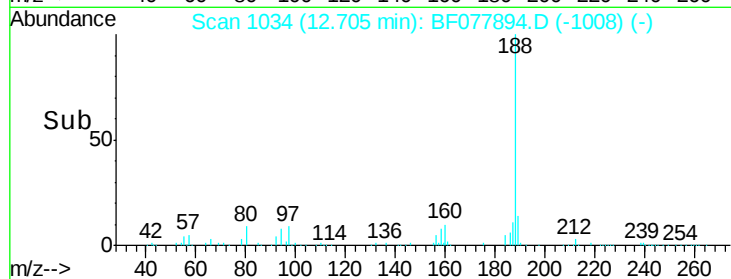
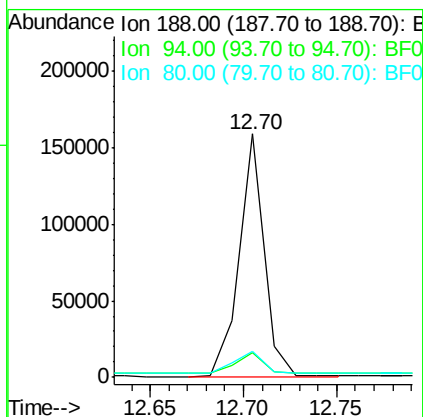
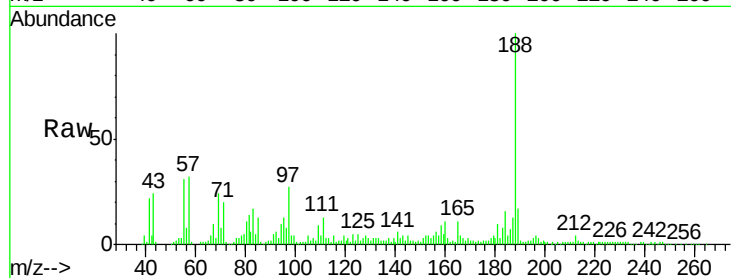




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.70 min Scan# 1034  
Delta R.T. -0.00 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

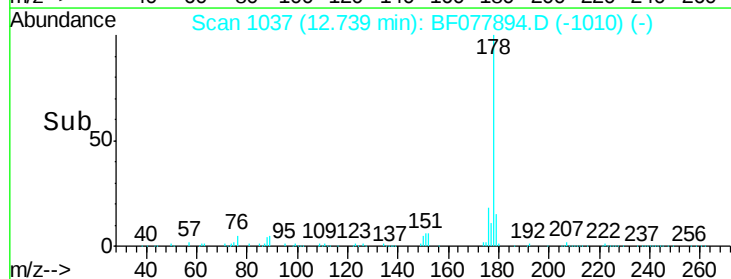
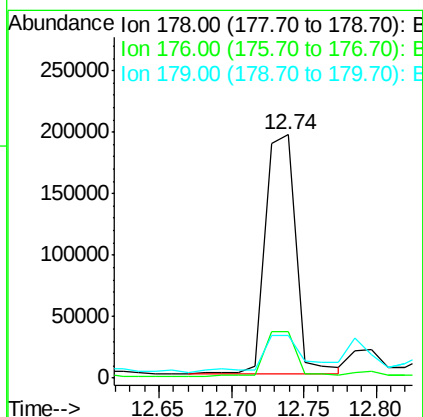
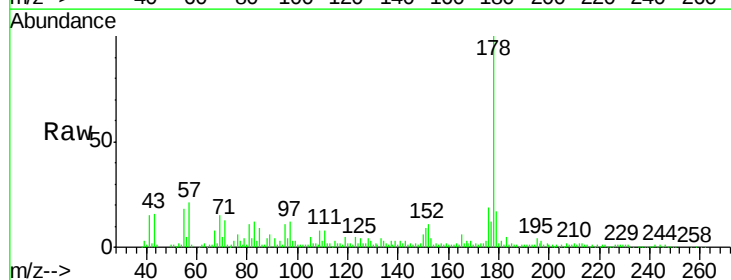
Instrument :  
BNA\_F  
ClientSampleId :  
MW-2DL

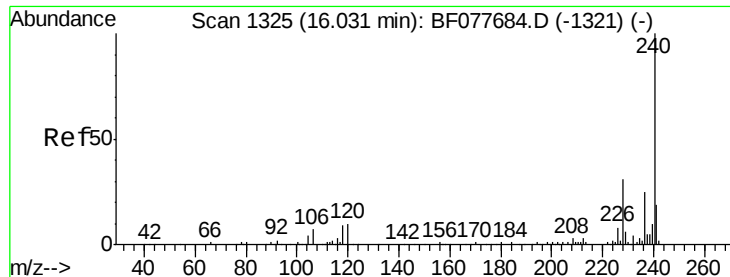
Tot Ion:188 Resp: 148721  
Ion Ratio Lower Upper  
188 100  
94 10.2 8.7 13.1  
80 10.7 9.3 13.9



#70  
Phenanthrene  
Concen: 33.38 ng  
RT: 12.74 min Scan# 1037  
Delta R.T. 0.01 min  
Lab File: BF077894.D  
Acq: 23 Mar 2015 15:05

Tgt Ion:178 Resp: 284995  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.2 22.8  
179 17.4 12.1 18.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.97 min Scan# 1320

Delta R.T. -0.03 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

Instrument :

BNA\_F

ClientSampleId :

MW-2DL

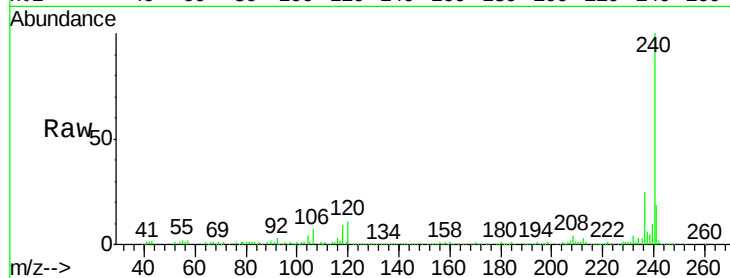
Tot Ion:240 Resp: 173152

Ion Ratio Lower Upper

240 100

120 11.2 8.2 12.2

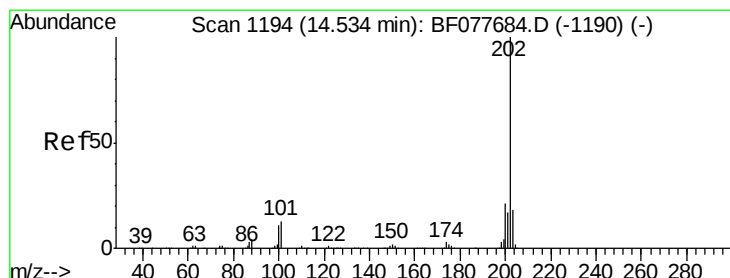
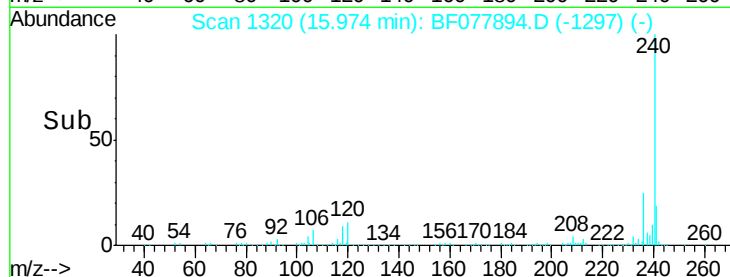
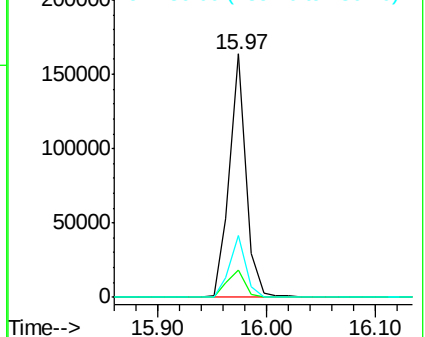
236 25.4 20.0 30.0



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



#77

Pyrene

Concen: 2.76 ng m

RT: 14.48 min Scan# 1189

Delta R.T. -0.00 min

Lab File: BF077894.D

Acq: 23 Mar 2015 15:05

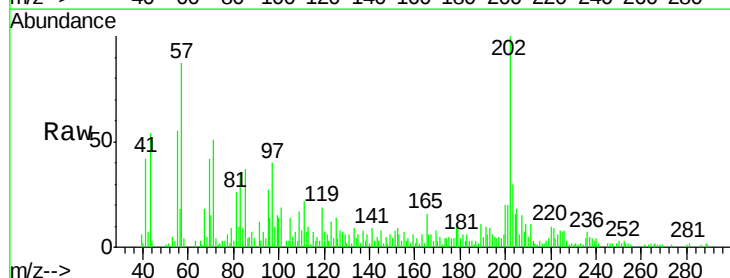
Tgt Ion:202 Resp: 30042

Ion Ratio Lower Upper

202 100

200 20.3 16.9 25.3

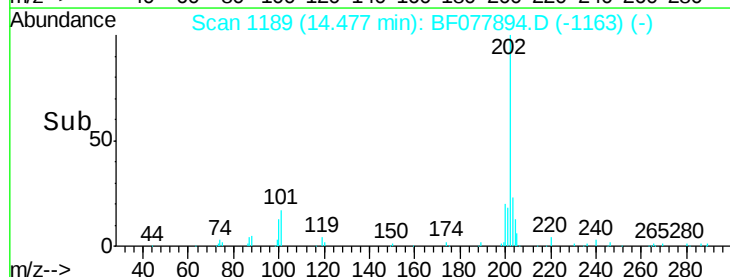
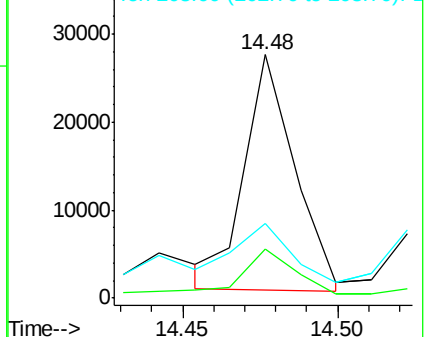
203 30.4 14.1 21.1#

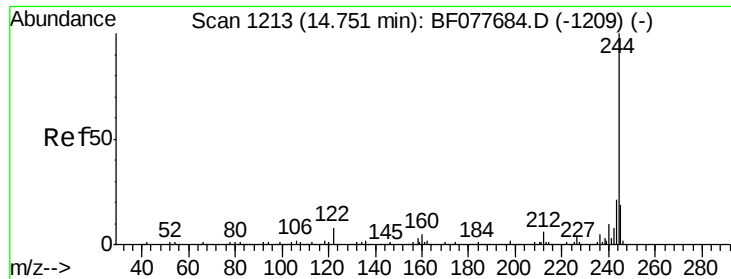


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

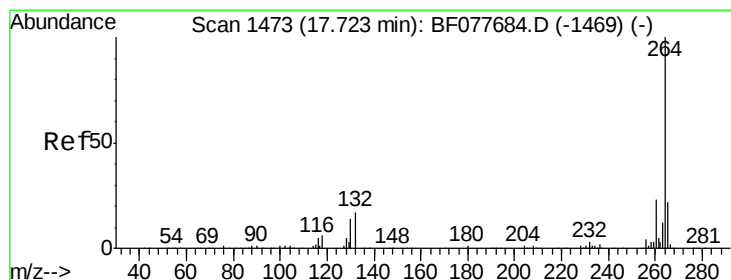
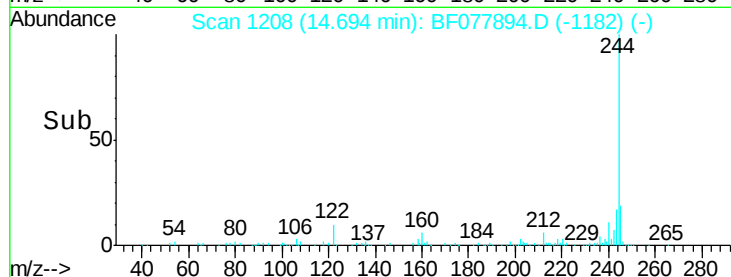
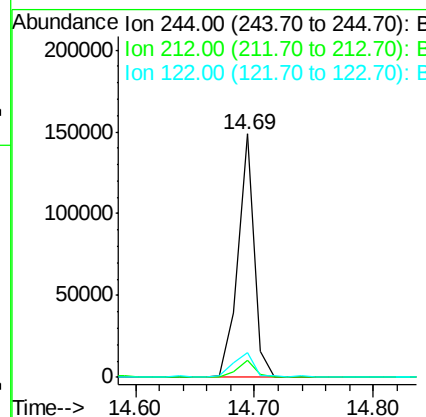
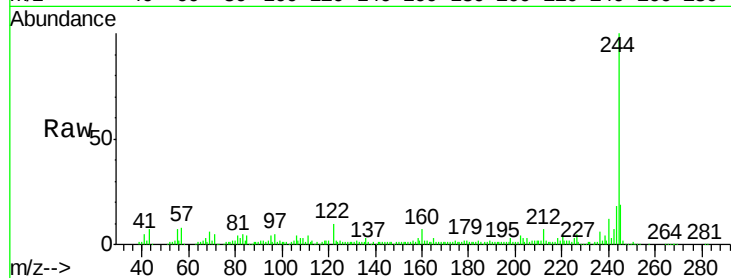




#78  
 Terphenyl-d14  
 Concen: 19.92 ng  
 RT: 14.69 min Scan# 1208  
 Delta R.T. -0.00 min  
 Lab File: BF077894.D  
 Acq: 23 Mar 2015 15:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-2DL

Tot Ion:244 Resp: 141184  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 4.9 7.3  
 122 10.3 6.2 9.4#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 17.70 min Scan# 1471  
 Delta R.T. -0.13 min  
 Lab File: BF077894.D  
 Acq: 23 Mar 2015 15:05

Tgt Ion:264 Resp: 175083  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 18.6 27.8  
 265 21.5 17.3 25.9

