

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF043015\  
 Data File : BF078874.D  
 Acq On : 1 May 2015 3:58  
 Operator : TP/IZ  
 Sample : G2032-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 B1(0-2)

Quant Time: May 01 04:48:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 01 00:31:00 2015  
 Response via : Initial Calibration

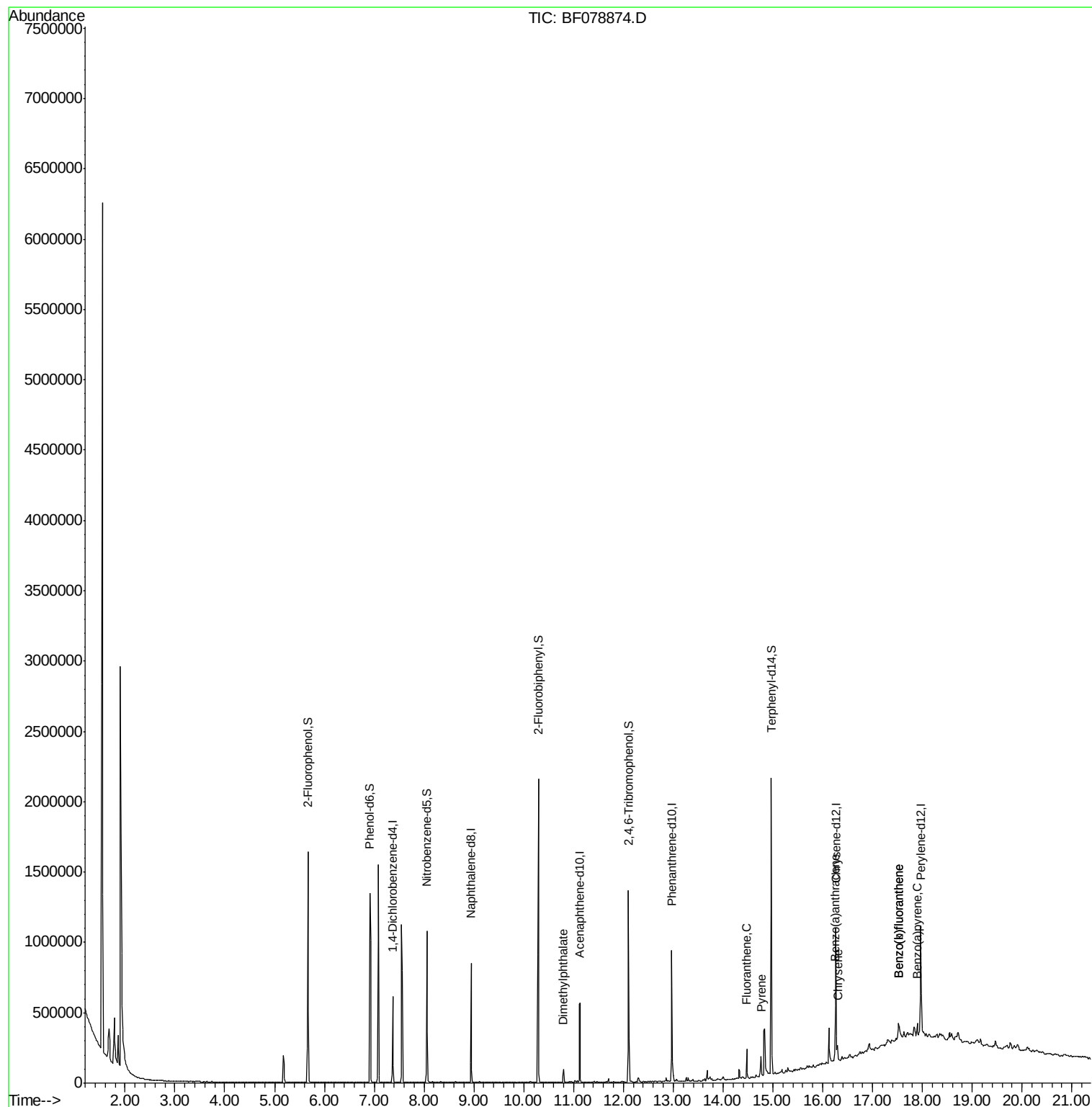
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.37  | 152  | 88038    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.95  | 136  | 360257   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 11.13 | 164  | 170907   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.97 | 188  | 333059   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 16.26 | 240  | 340555   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 17.97 | 264  | 366448   | 20.00 | ng    | -0.07    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.67  | 112  | 477620   | 93.39 | ng    | 0.00     |
| 7) Phenol-d6                | 6.91  | 99   | 622008   | 92.01 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.06  | 82   | 348011   | 55.52 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.10 | 330  | 166310   | 89.95 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.30 | 172  | 745964   | 60.81 | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.97 | 244  | 823478   | 57.89 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate       | 10.80 | 163  | 41234    | 3.29  | ng    | 99       |
| 74) Fluoranthene            | 14.48 | 202  | 84087    | 4.33  | ng    | 97       |
| 77) Pyrene                  | 14.77 | 202  | 79902    | 4.07  | ng    | 98       |
| 80) Benzo(a)anthracene      | 16.25 | 228  | 57345    | 3.07  | ng    | 98       |
| 82) Chrysene                | 16.30 | 228  | 41845    | 2.33  | ng    | 96       |
| 87) Benzo(b)fluoranthene    | 17.52 | 252  | 96562    | 4.81  | ng    | 95       |
| 88) Benzo(k)fluoranthene    | 17.52 | 252  | 97542    | 5.02  | ng    | 96       |
| 89) Benzo(a)pyrene          | 17.90 | 252  | 52357    | 2.83  | ng    | # 91     |

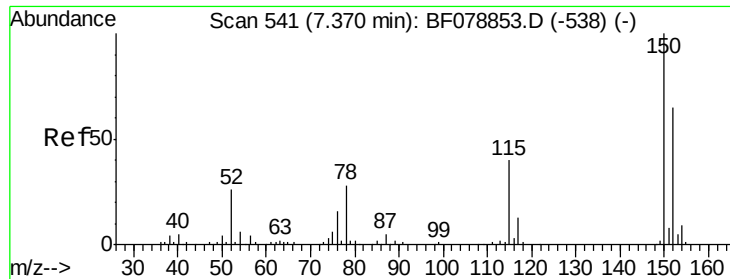
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF043015\  
Data File : BF078874.D  
Acq On : 1 May 2015 3:58  
Operator : TP/IZ  
Sample : G2032-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
B1(0-2)

Quant Time: May 01 04:48:24 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 01 00:31:00 2015  
Response via : Initial Calibration



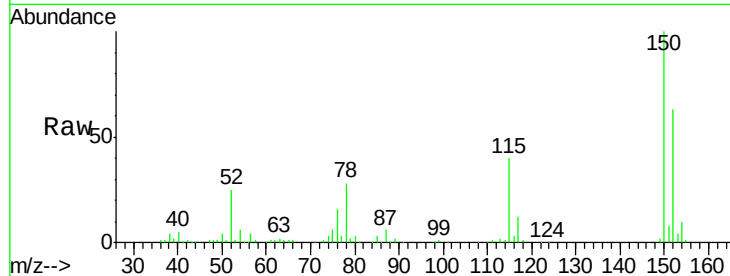


#1

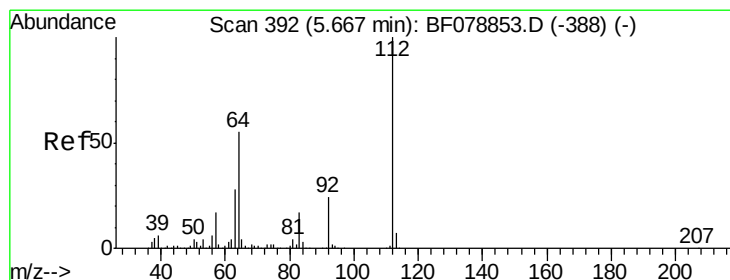
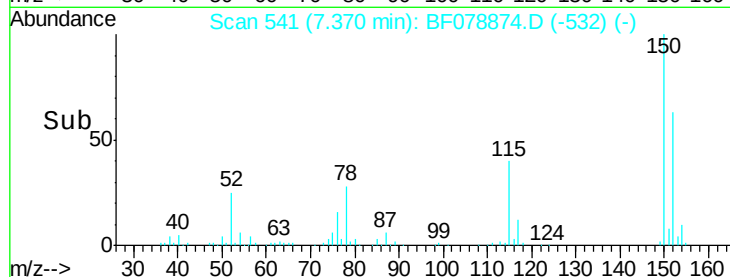
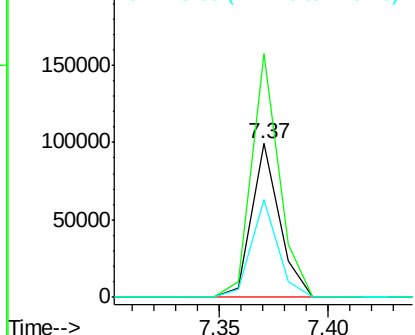
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.37 min Scan# 541  
Delta R.T. -0.00 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

Instrument :  
BNA\_F  
ClientSampleId :  
B1(0-2)

Tgt Ion:152 Resp: 88038  
Ion Ratio Lower Upper  
152 100  
150 158.5 122.0 183.0  
115 63.2 46.3 69.5



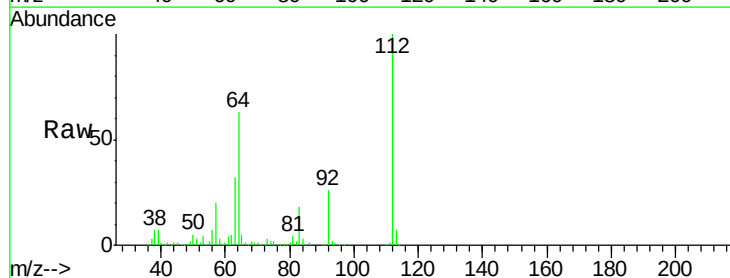
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



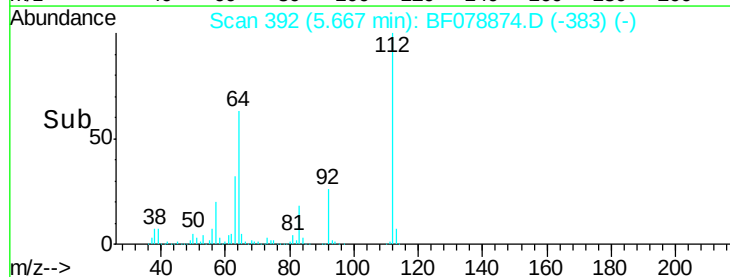
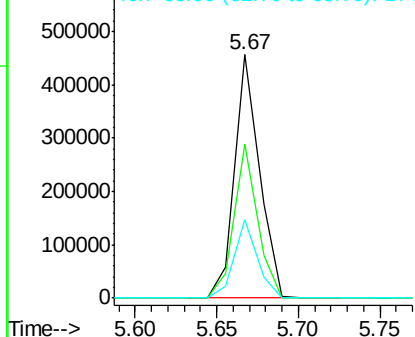
#5

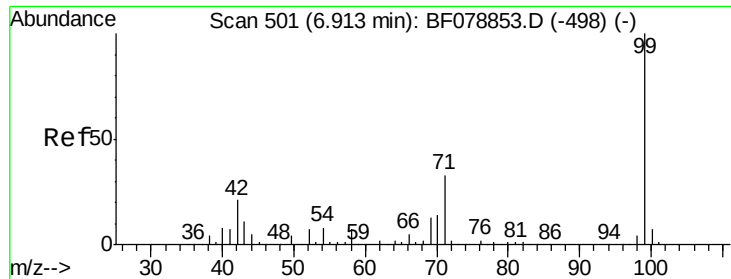
2-Fluorophenol  
Concen: 93.39 ng  
RT: 5.67 min Scan# 392  
Delta R.T. -0.00 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

Tgt Ion:112 Resp: 477620  
Ion Ratio Lower Upper  
112 100  
64 63.3 53.5 80.3  
63 32.3 27.5 41.3



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: 92.01 ng

RT: 6.91 min Scan# 501

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

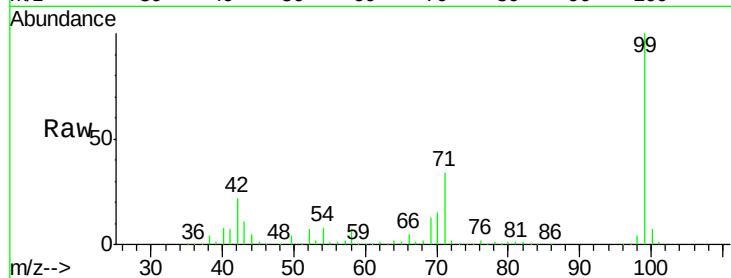
Tgt Ion: 99 Resp: 622008

Ion Ratio Lower Upper

99 100

42 21.9 12.8 19.2#

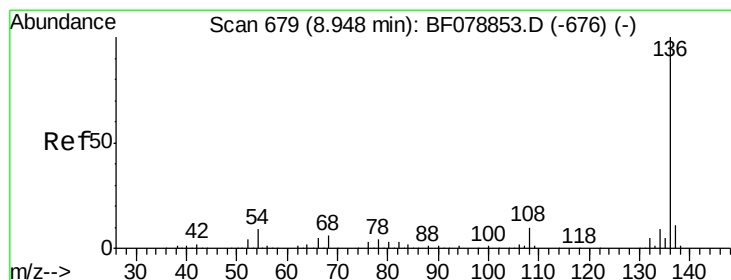
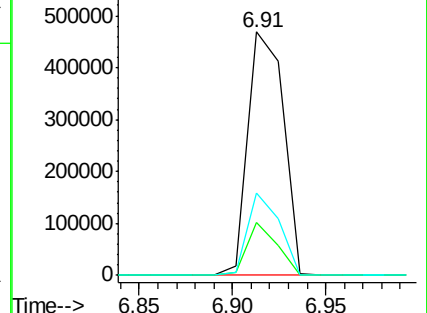
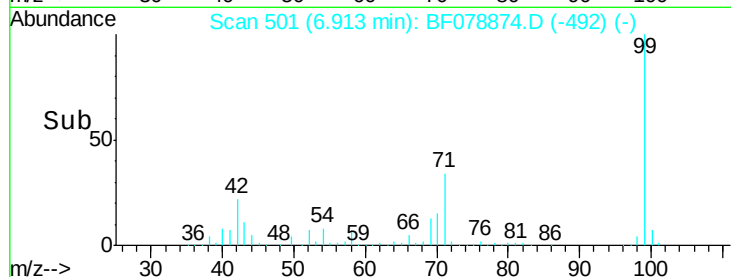
71 33.8 23.4 35.2



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: 8.95 min Scan# 679

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Tgt Ion: 136 Resp: 360257

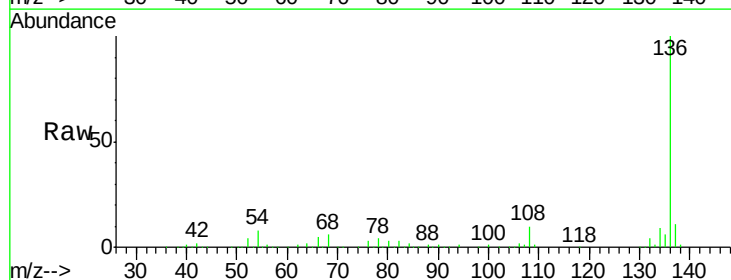
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 8.0 5.8 8.8

68 5.9 4.2 6.4

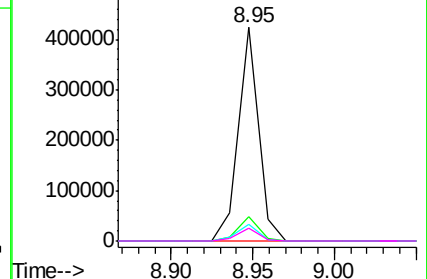
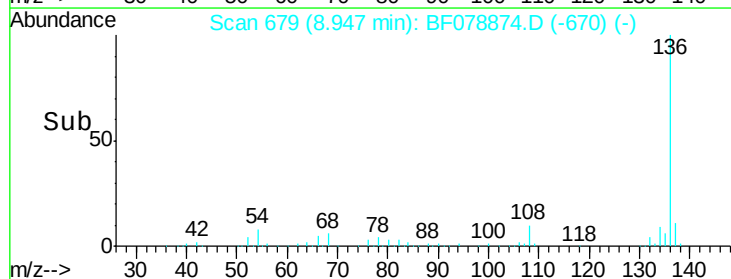


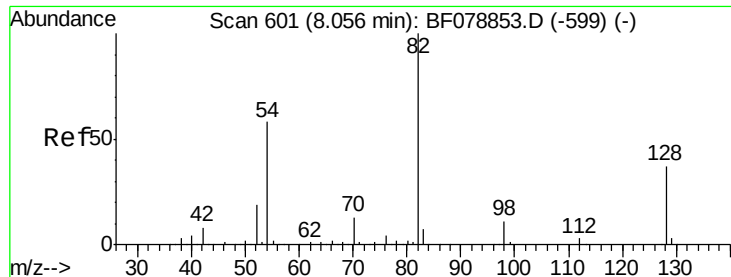
Abundance Ion 136.00 (135.70 to 136.70): E

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

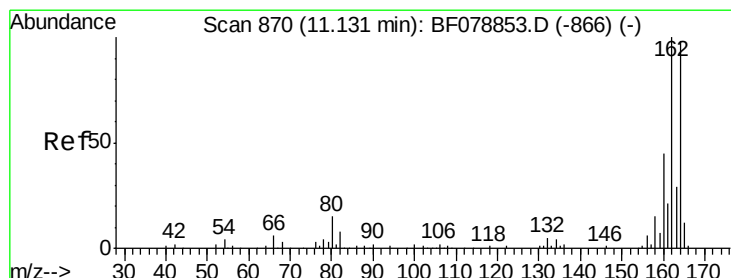
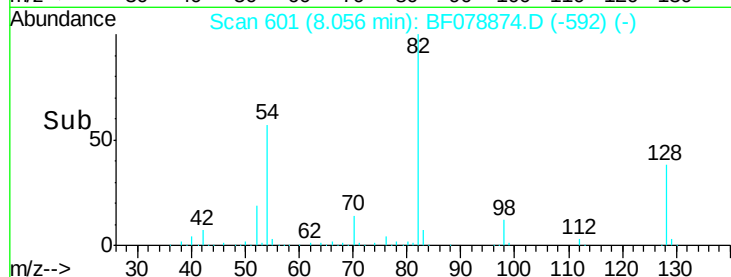
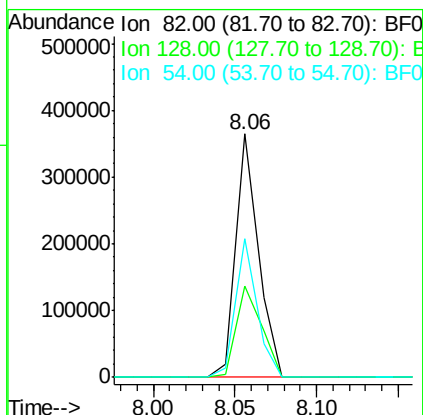
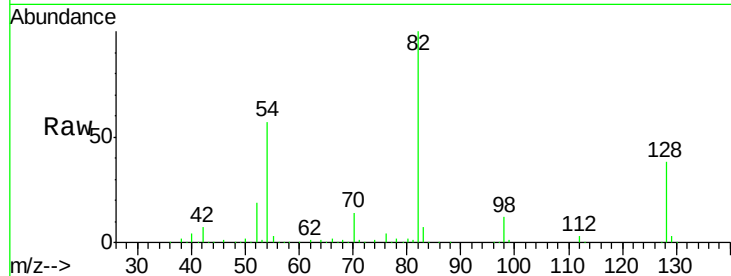




#23  
 Nitrobenzene-d5  
 Concen: 55.52 ng  
 RT: 8.06 min Scan# 601  
 Delta R.T. -0.00 min  
 Lab File: BF078874.D  
 Acq: 1 May 2015 3:58

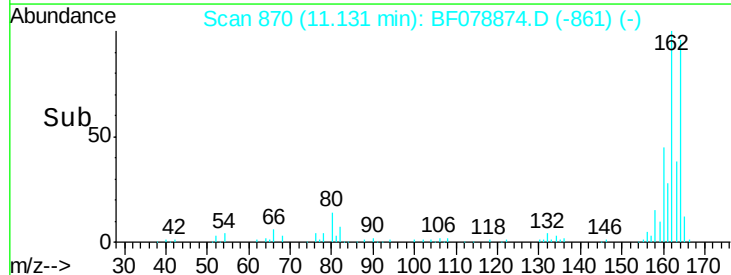
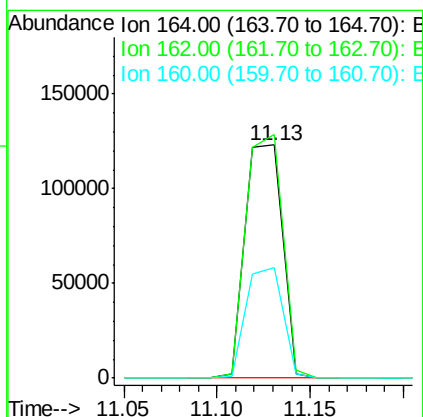
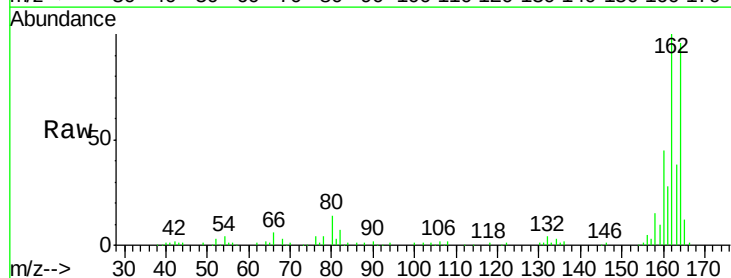
Instrument :  
 BNA\_F  
 ClientSampleId :  
 B1(0-2)

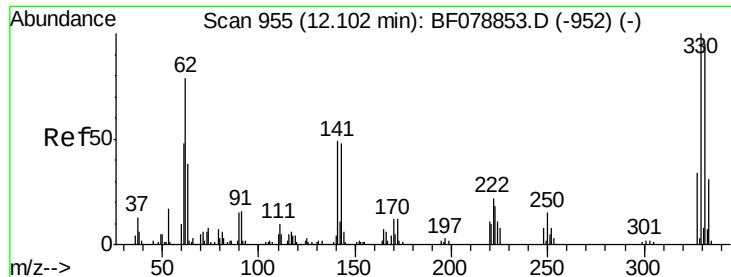
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.6  | 30.0  | 45.0  |
| 54      | 57.2  | 46.4  | 69.6  |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.13 min Scan# 870  
 Delta R.T. -0.00 min  
 Lab File: BF078874.D  
 Acq: 1 May 2015 3:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.5 | 82.7  | 124.1 |
| 160     | 47.4  | 35.8  | 53.8  |





#41

2,4,6-Tribromophenol

Concen: 89.95 ng

RT: 12.10 min Scan# 955

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

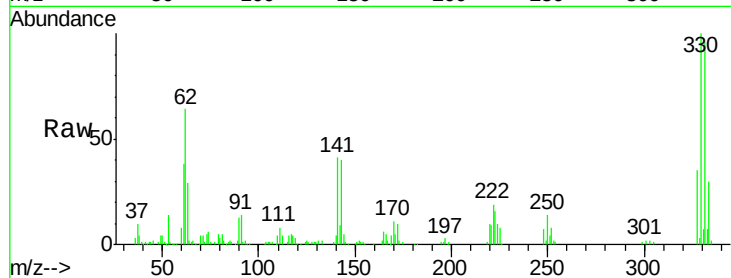
Tgt Ion:330 Resp: 166310

Ion Ratio Lower Upper

330 100

332 96.4 0.0 0.0#

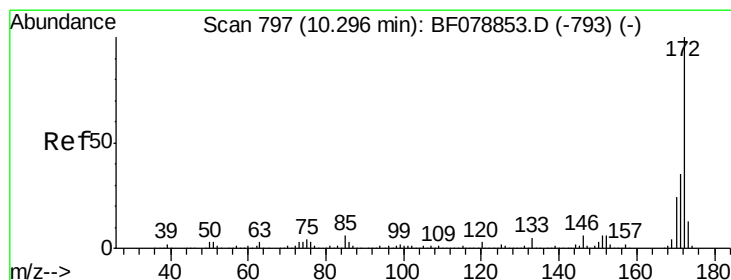
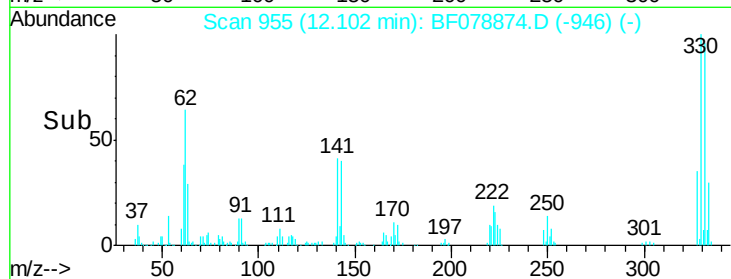
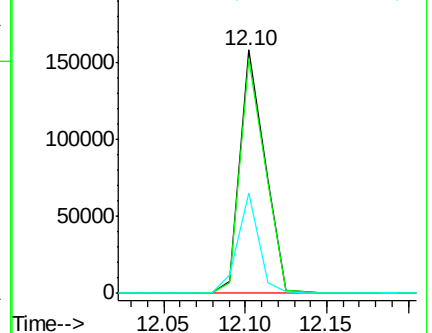
141 35.1 0.0 0.0#



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: 60.81 ng

RT: 10.30 min Scan# 797

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

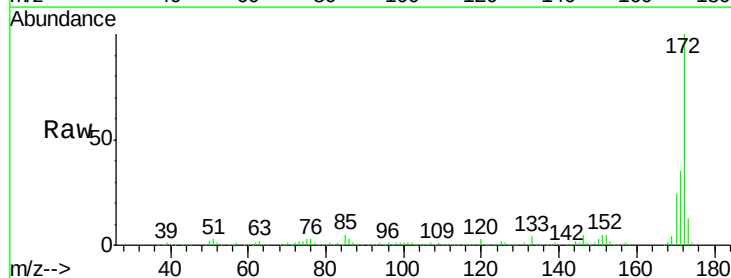
Tgt Ion:172 Resp: 745964

Ion Ratio Lower Upper

172 100

171 34.8 27.9 41.9

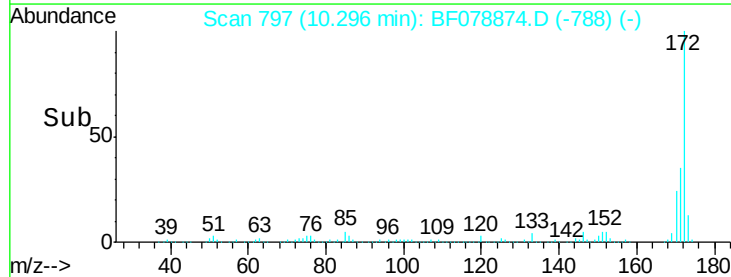
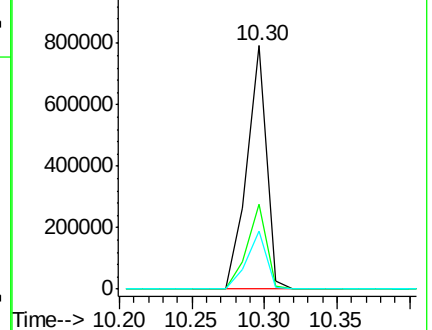
170 24.1 19.4 29.0

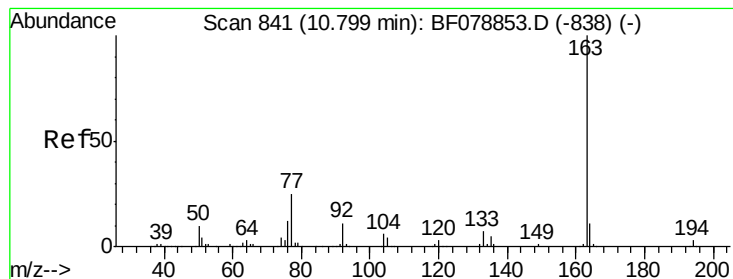


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 3.29 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

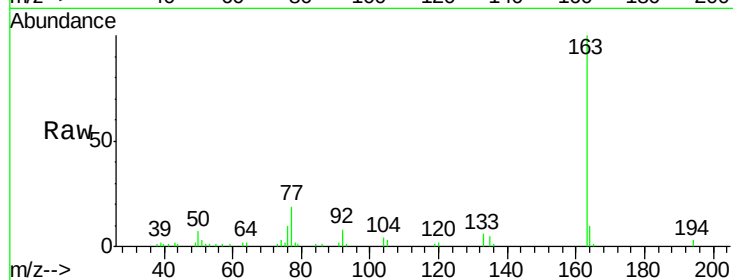
Tgt Ion:163 Resp: 41234

Ion Ratio Lower Upper

163 100

194 3.2 2.6 4.0

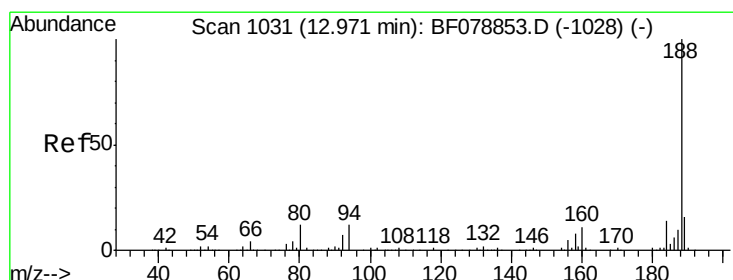
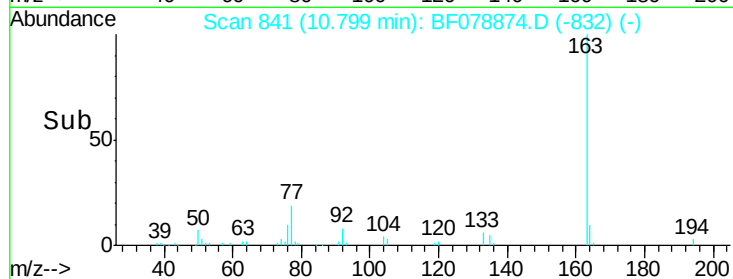
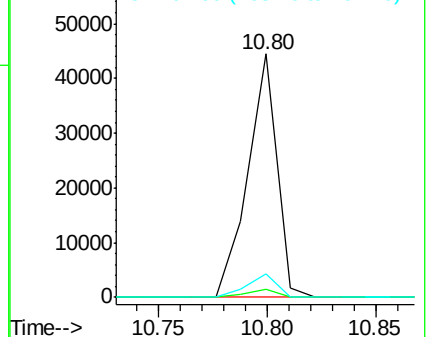
164 9.7 8.1 12.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.97 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

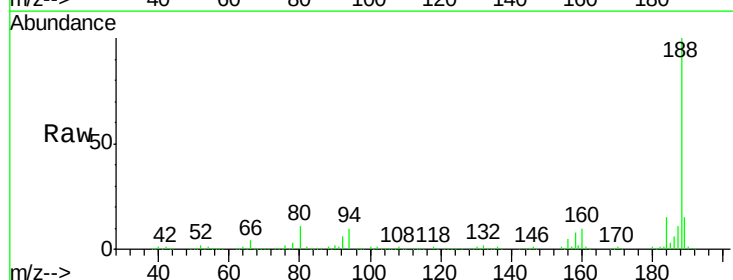
Tgt Ion:188 Resp: 333059

Ion Ratio Lower Upper

188 100

94 10.1 8.2 12.2

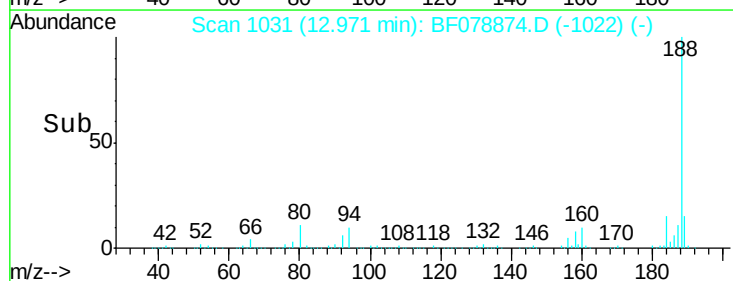
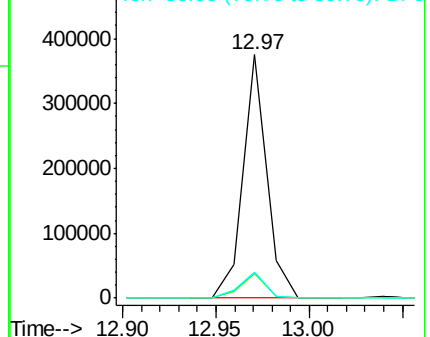
80 10.7 8.9 13.3

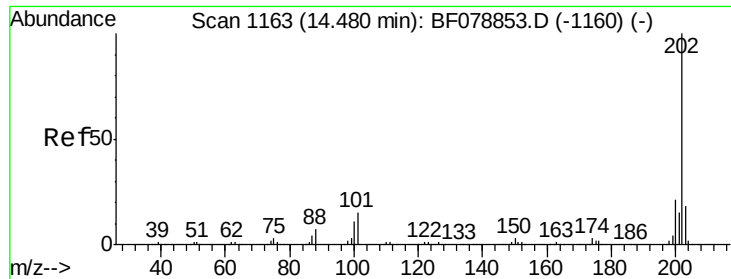


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

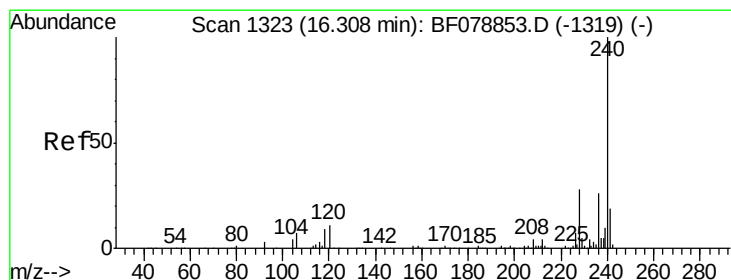
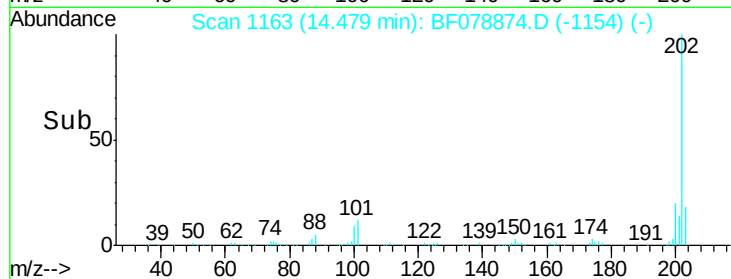
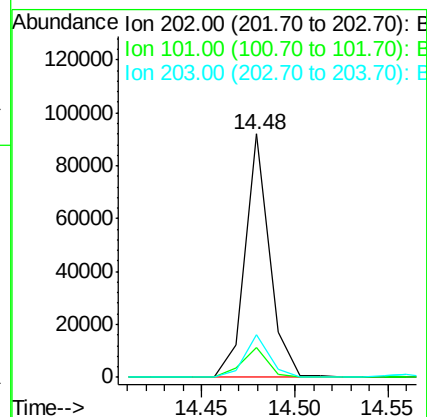
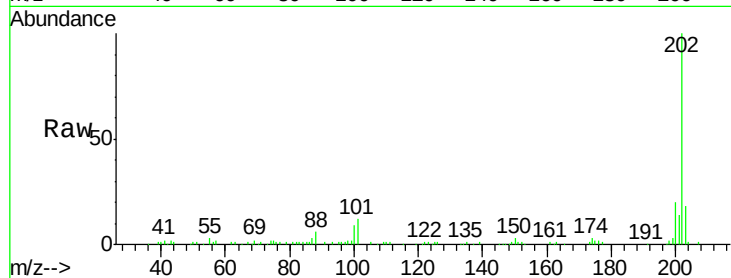




#74  
Fluoranthene  
Concen: 4.33 ng  
RT: 14.48 min Scan# 1163  
Delta R.T. -0.00 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

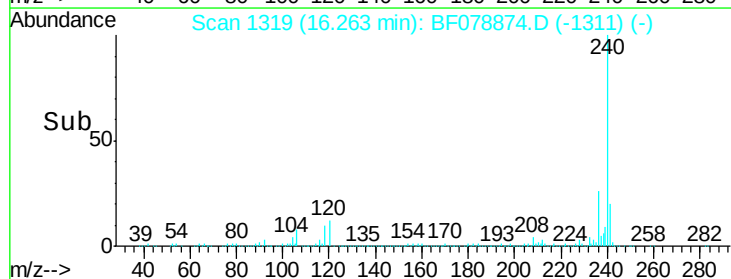
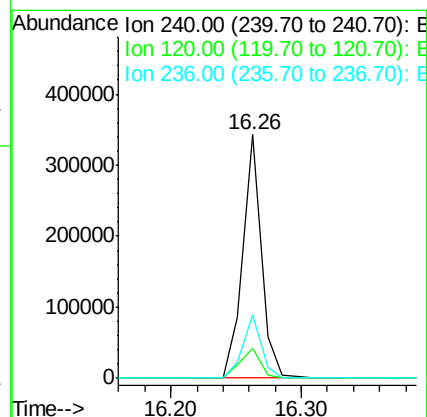
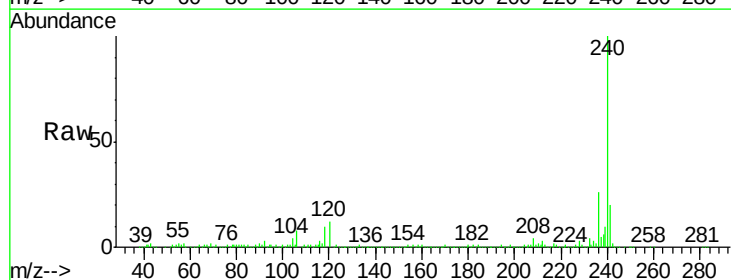
Instrument :  
BNA\_F  
ClientSampleId :  
B1(0-2)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.4  | 0.0   | 34.6  |
| 203     | 17.8  | 0.0   | 38.4  |

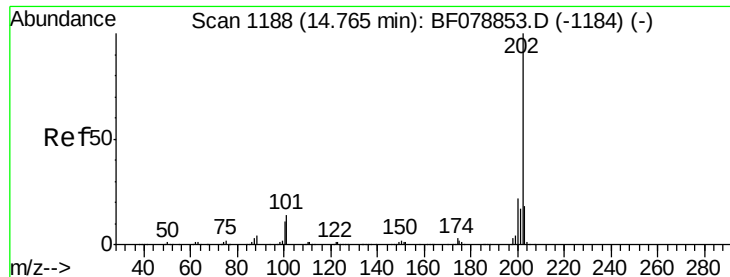


#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 16.26 min Scan# 1319  
Delta R.T. -0.01 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.3  | 9.7   | 14.5  |
| 236     | 26.2  | 20.2  | 30.4  |







#77

Pyrene

Concen: 4.07 ng

RT: 14.77 min Scan# 1188

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

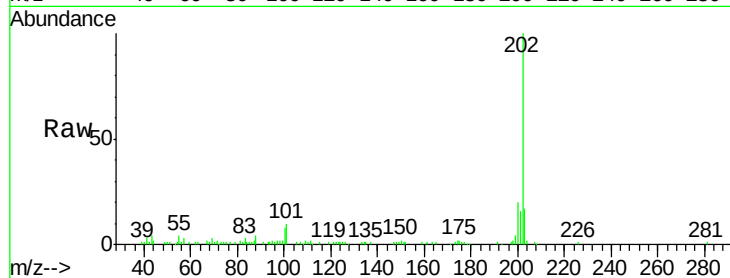
Tgt Ion:202 Resp: 79902

Ion Ratio Lower Upper

202 100

200 20.5 17.5 26.3

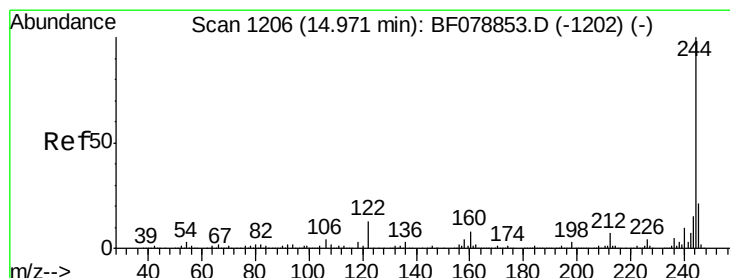
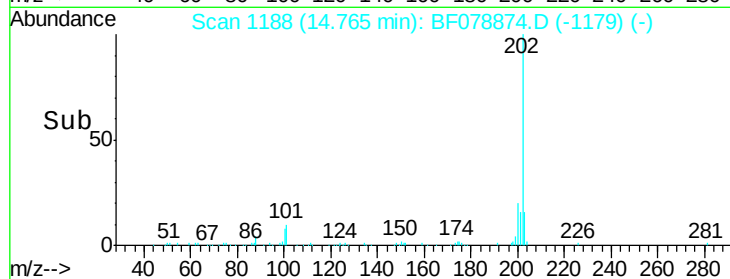
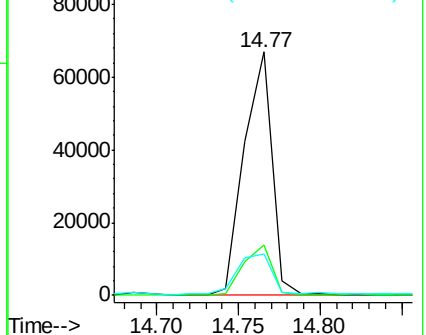
203 17.1 13.9 20.9



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: 57.89 ng

RT: 14.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

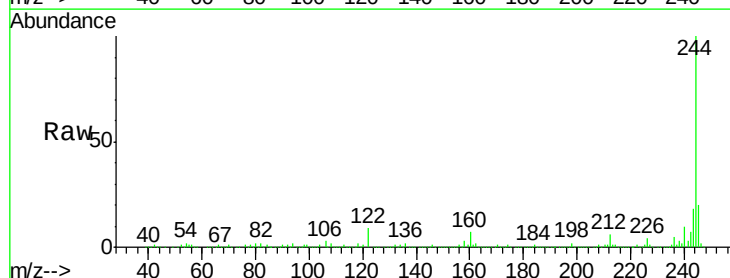
Tgt Ion:244 Resp: 823478

Ion Ratio Lower Upper

244 100

212 6.5 5.6 8.4

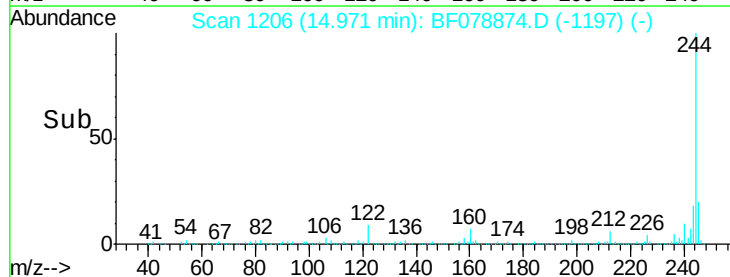
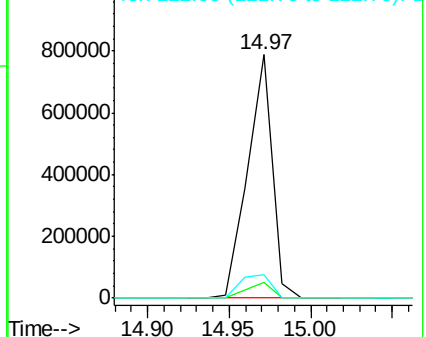
122 9.4 10.3 15.5#

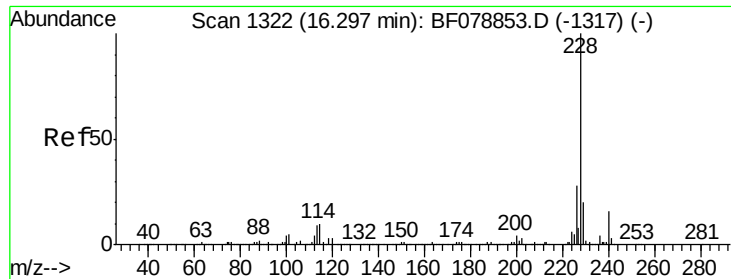


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 3.07 ng

RT: 16.25 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

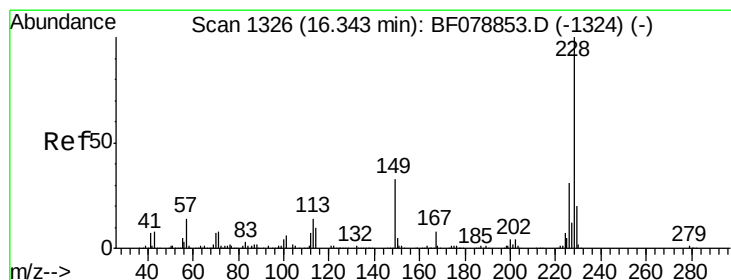
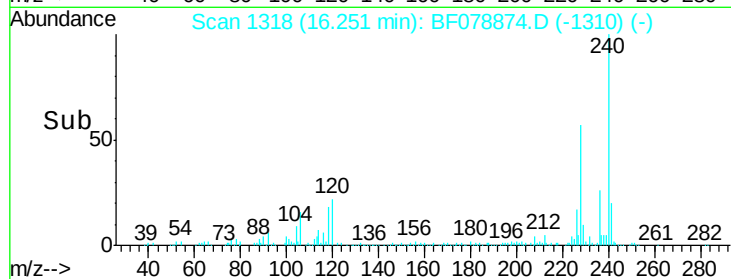
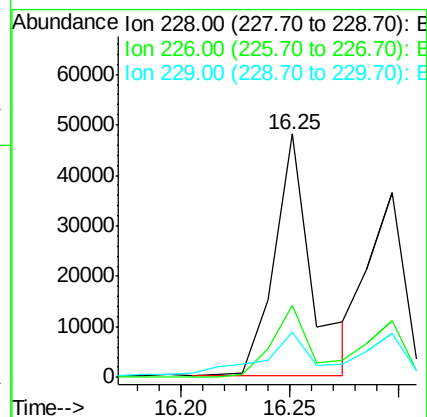
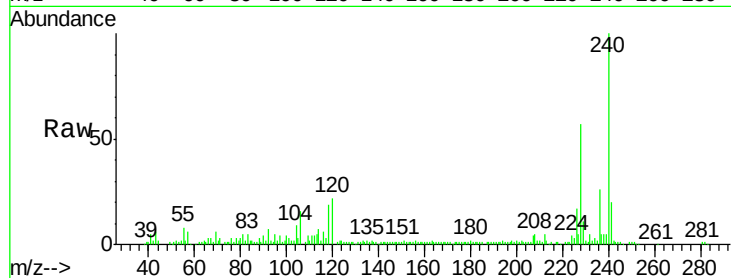
Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 57345 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 29.4  | 22.6  | 33.8  |
| 229      | 18.6  | 15.9  | 23.9  |



#82

Chrysene

Concen: 2.33 ng

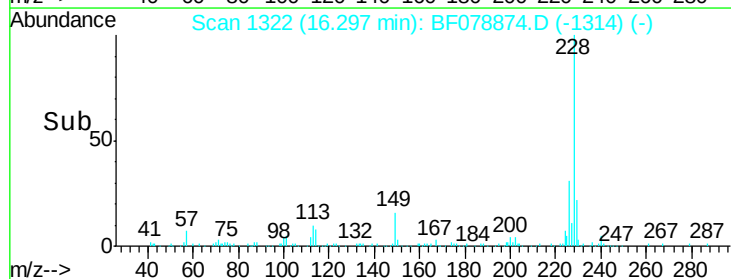
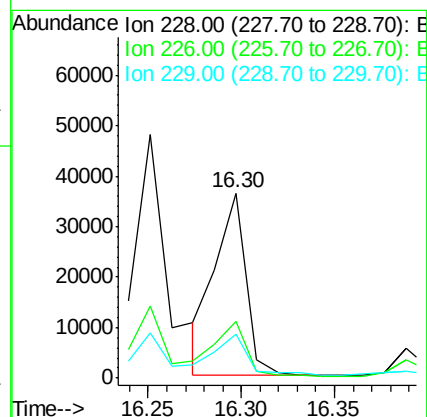
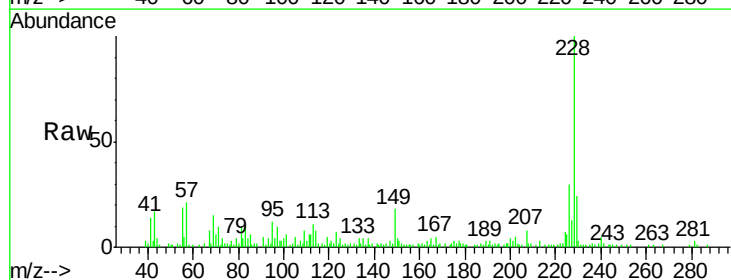
RT: 16.30 min Scan# 1322

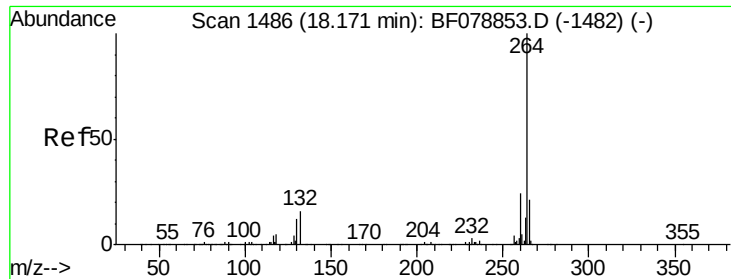
Delta R.T. -0.01 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 41845 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.5  | 24.9  | 37.3  |
| 229      | 23.8  | 16.0  | 24.0  |





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.97 min Scan# 1468

Delta R.T. -0.07 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

Instrument :

BNA\_F

ClientSampleId :

B1(0-2)

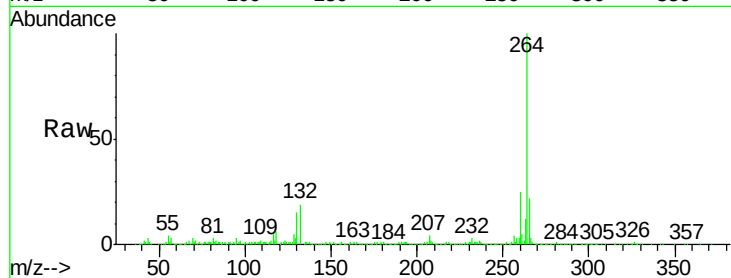
Tgt Ion:264 Resp: 366448

Ion Ratio Lower Upper

264 100

260 24.6 19.4 29.2

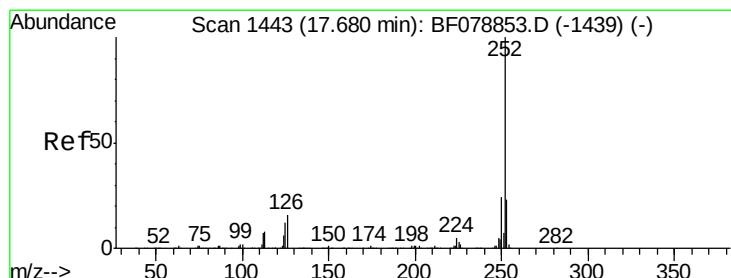
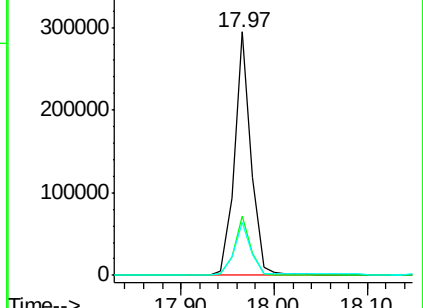
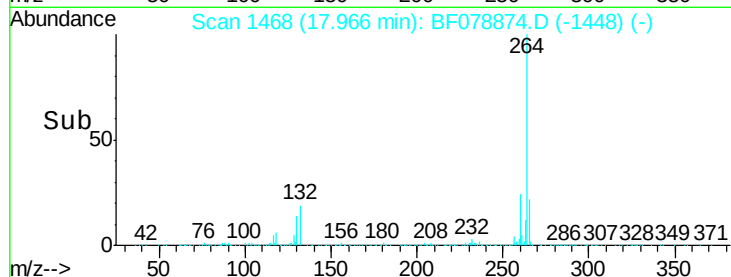
265 21.8 18.3 27.5



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: 4.81 ng

RT: 17.52 min Scan# 1429

Delta R.T. -0.06 min

Lab File: BF078874.D

Acq: 1 May 2015 3:58

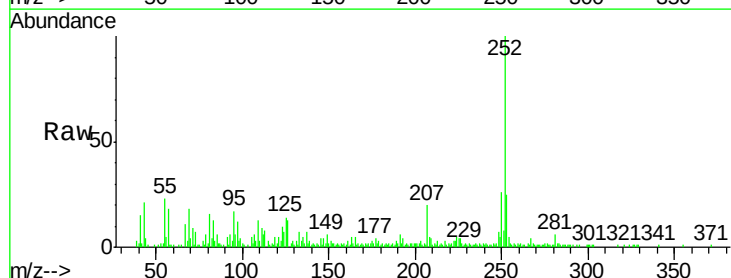
Tgt Ion:252 Resp: 96562

Ion Ratio Lower Upper

252 100

253 24.5 17.7 26.5

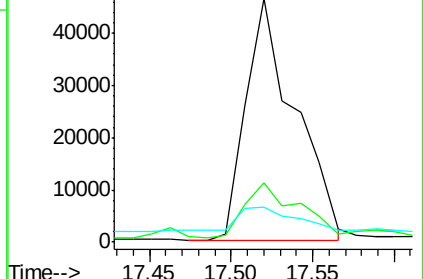
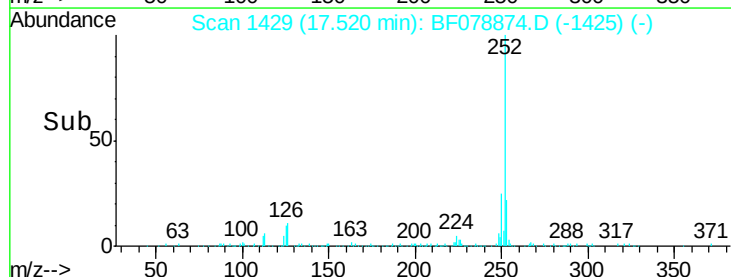
125 14.2 9.5 14.3

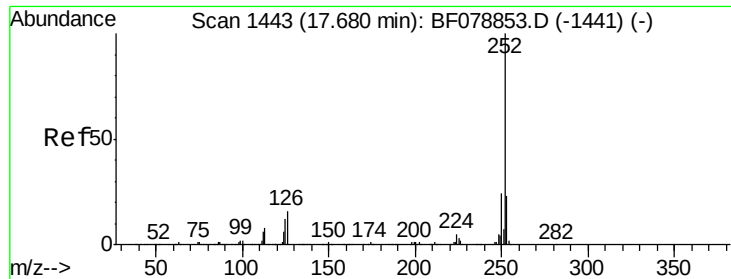


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

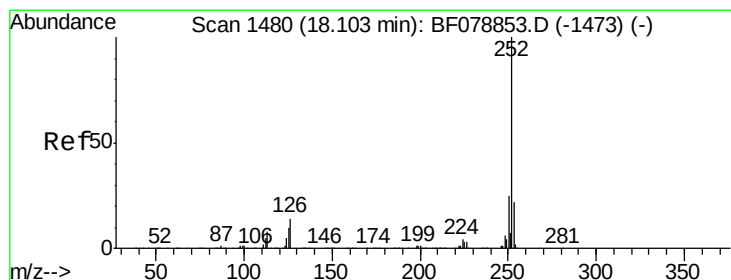
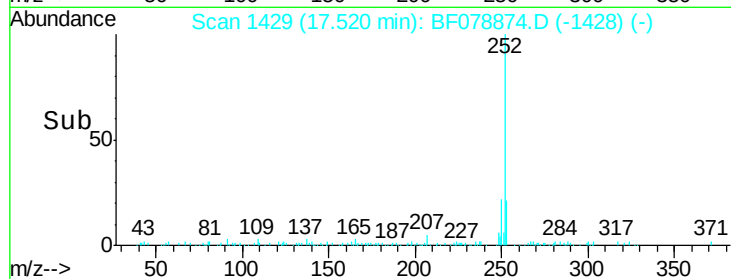
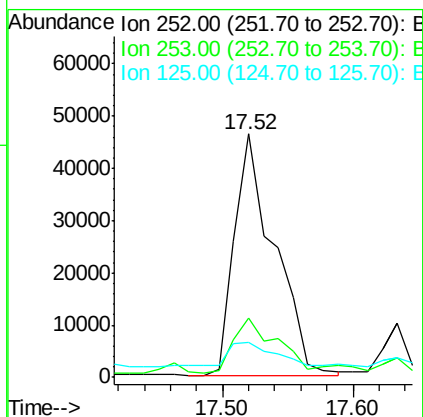
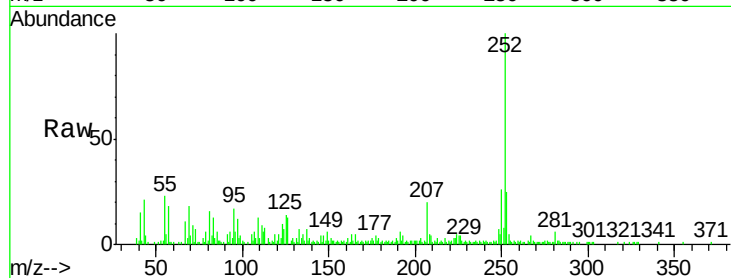




#88  
Benzo(k)fluoranthene  
Concen: 5.02 ng  
RT: 17.52 min Scan# 1429  
Delta R.T. -0.09 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

Instrument :  
BNA\_F  
ClientSampleId :  
B1(0-2)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 18.1  | 27.1  |
| 125     | 14.2  | 10.0  | 15.0  |



#89  
Benzo(a)pyrene  
Concen: 2.83 ng  
RT: 17.90 min Scan# 1462  
Delta R.T. -0.07 min  
Lab File: BF078874.D  
Acq: 1 May 2015 3:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 17.3  | 25.9  |
| 125     | 15.3  | 7.0   | 10.6  |

