

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120115\  
 Data File : BF083382.D  
 Acq On : 1 Dec 2015 19:56  
 Operator : UM/IZ  
 Sample : G4593-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S22-15

Quant Time: Dec 02 03:40:32 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 01 01:17:16 2015  
 Response via : Initial Calibration

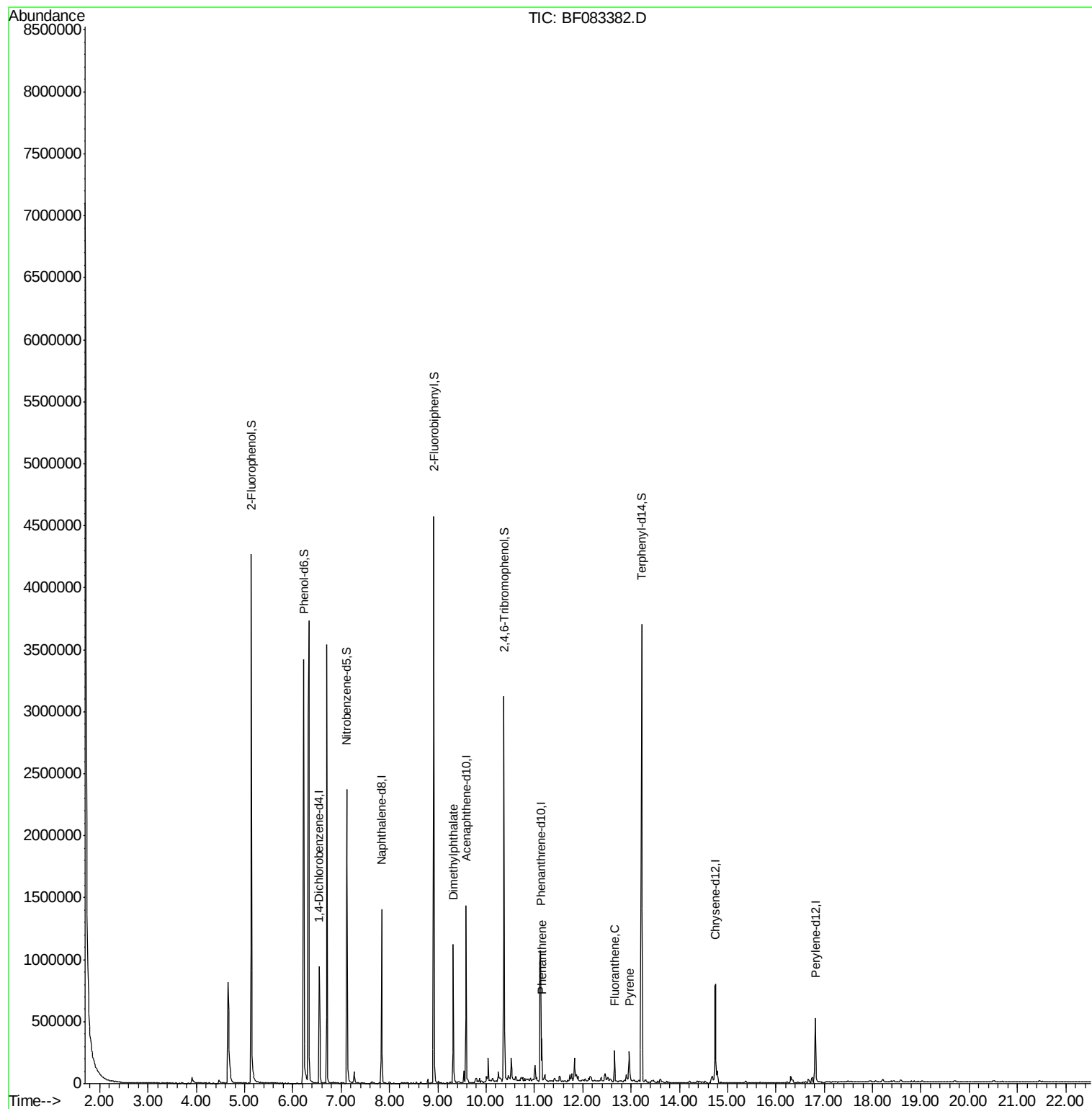
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.54  | 152  | 152787   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.84  | 136  | 599257   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.58  | 164  | 299945   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.13 | 188  | 575320   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.75 | 240  | 455534   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 16.82 | 264  | 329017   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.14  | 112  | 1248624  | 122.63 | ng    | 0.01     |
| 7) Phenol-d6                | 6.22  | 99   | 1832991  | 131.52 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.12  | 82   | 1087844  | 79.80  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.37 | 330  | 343167   | 113.97 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 8.92  | 172  | 1778048  | 84.48  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.22 | 244  | 1603100  | 83.93  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 9.32  | 163  | 451500   | 18.52  | ng    | 98       |
| 70) Phenanthrene            | 11.15 | 178  | 149221   | 4.38   | ng    | 98       |
| 74) Fluoranthene            | 12.66 | 202  | 137700   | 3.90   | ng    | 94       |
| 77) Pyrene                  | 12.97 | 202  | 121131   | 3.81   | ng    | 98       |

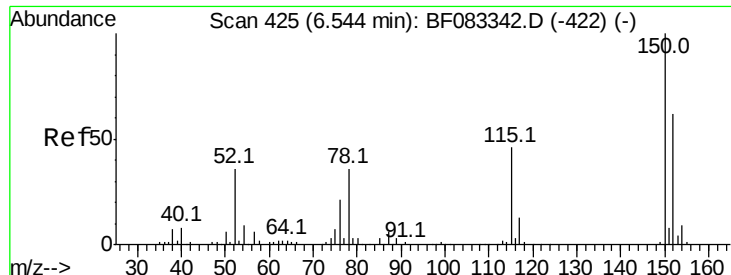
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120115\  
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Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S22-15

Quant Time: Dec 02 03:40:32 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 01 01:17:16 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.54 min Scan# 425

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

Instrument :

BNA\_F

ClientSampleID :

S22-15

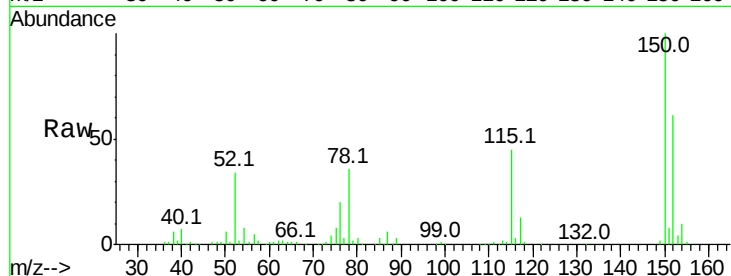
Tot Ion:152 Resp: 152787

Ion Ratio Lower Upper

152 100

150 163.8 129.8 194.8

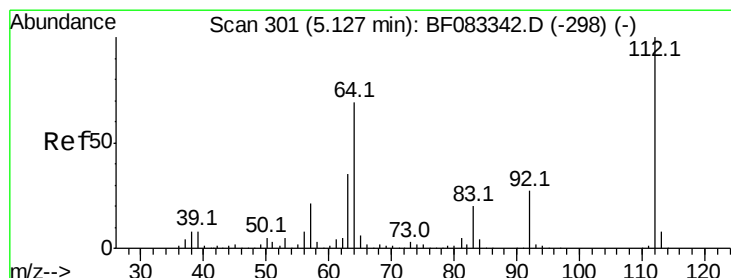
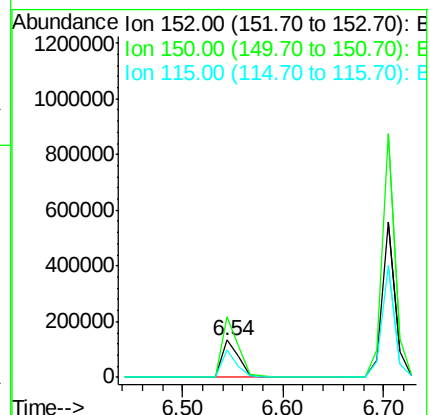
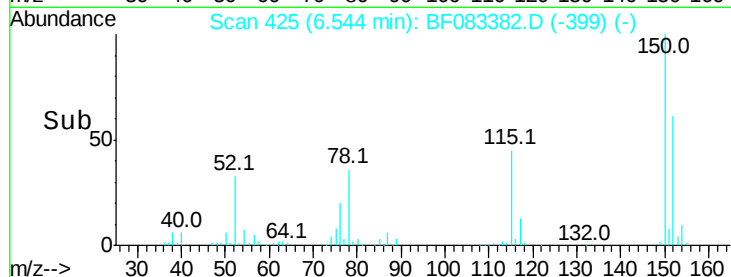
115 74.3 59.2 88.8



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: 122.63 ng

RT: 5.14 min Scan# 302

Delta R.T. 0.01 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

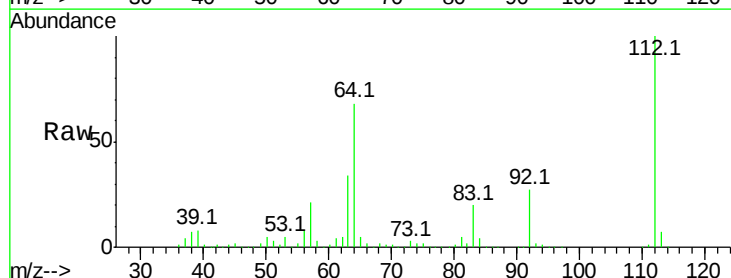
Tgt Ion:112 Resp: 1248624

Ion Ratio Lower Upper

112 100

64 68.2 55.6 83.4

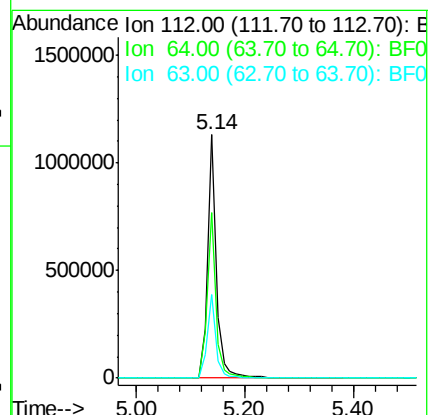
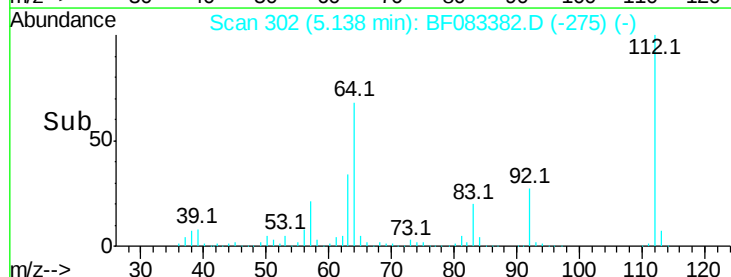
63 34.5 28.2 42.2

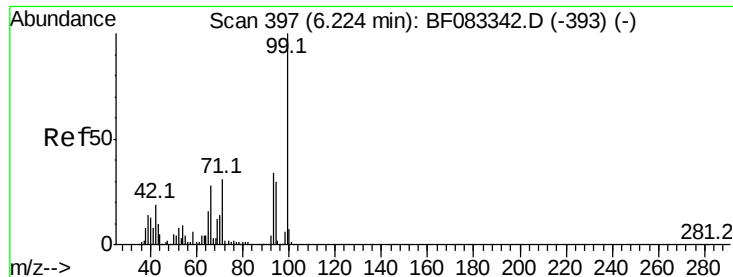


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 131.52 ng

RT: 6.22 min Scan# 397

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

Instrument :

BNA\_F

ClientSampleId :

S22-15

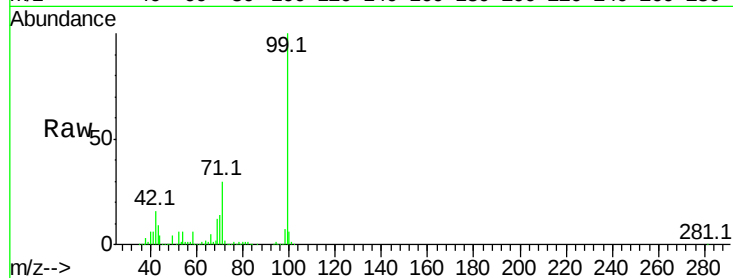
Tot Ion: 99 Resp: 1832991

Ion Ratio Lower Upper

99 100

42 16.4 14.9 22.3

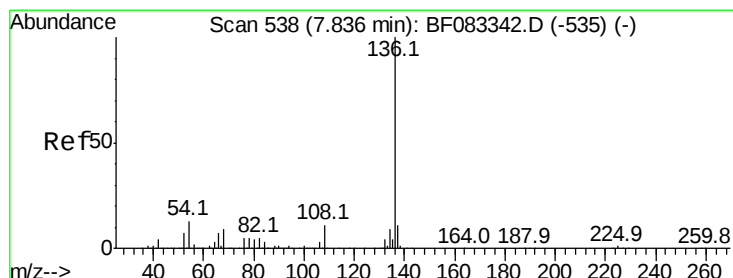
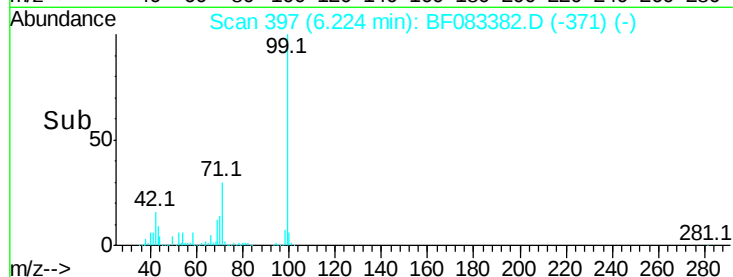
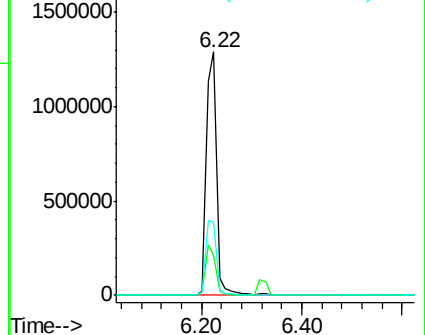
71 29.9 24.7 37.1



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: 7.84 min Scan# 538

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

Tgt Ion: 136 Resp: 599257

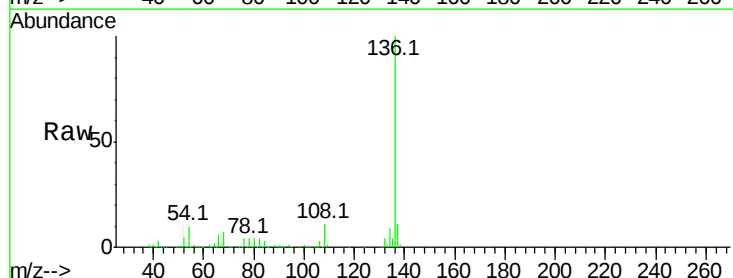
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 10.5 10.1 15.1

68 7.2 7.1 10.7

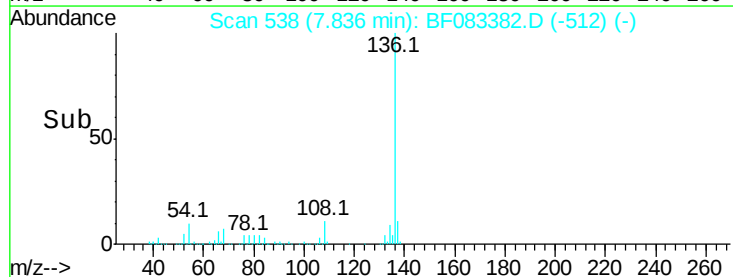
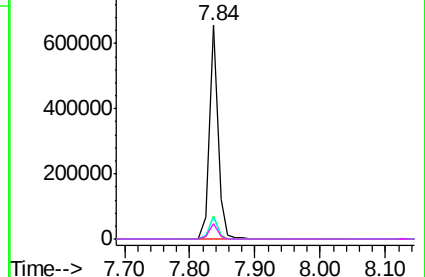


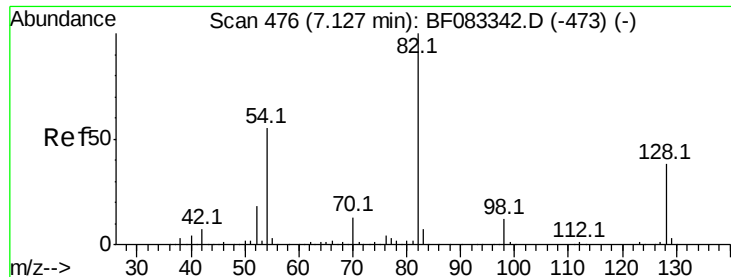
Abundance Ion 136.00 (135.70 to 136.70): E

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



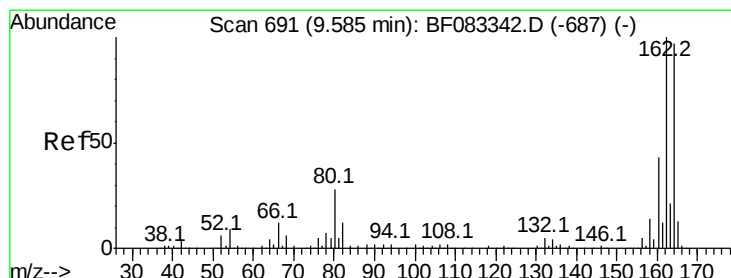
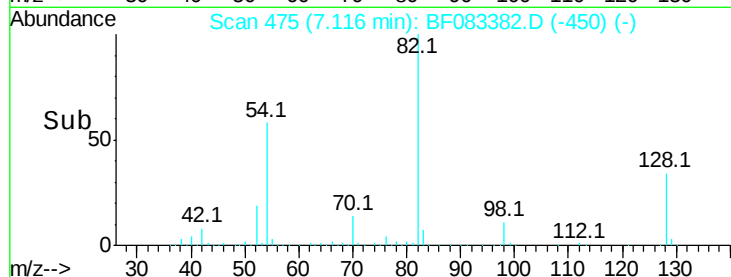
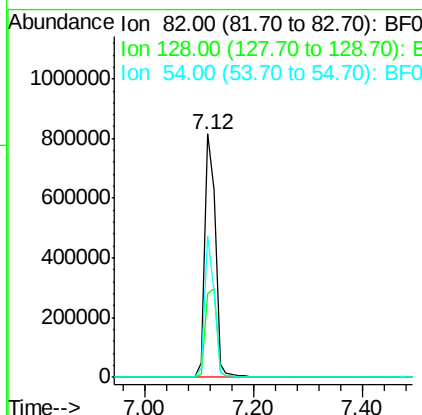
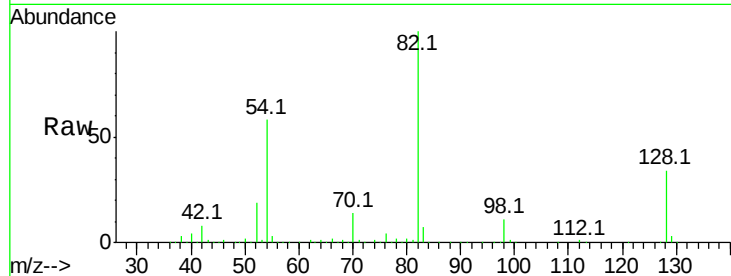


#23  
 Nitrobenzene-d5  
 Concen: 79.80 ng  
 RT: 7.12 min Scan# 475  
 Delta R.T. -0.01 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S22-15

Tot Ion: 82 Resp: 1087844  

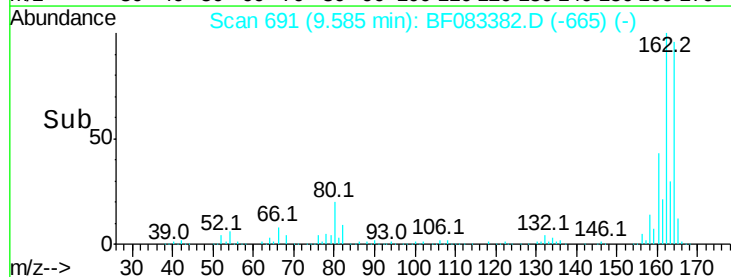
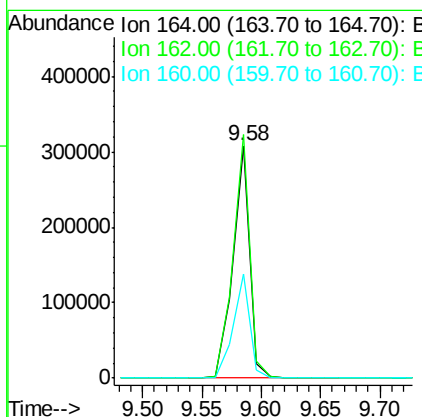
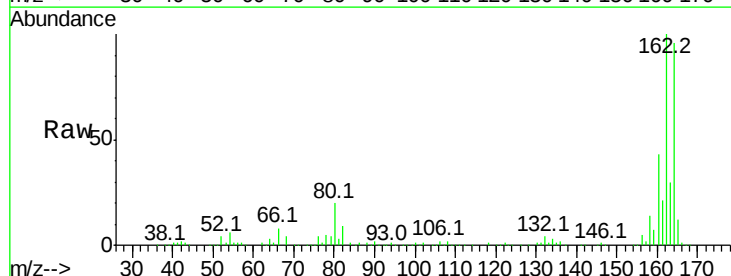
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 34.5  | 30.6  | 46.0  |
| 54  | 58.2  | 43.8  | 65.6  |

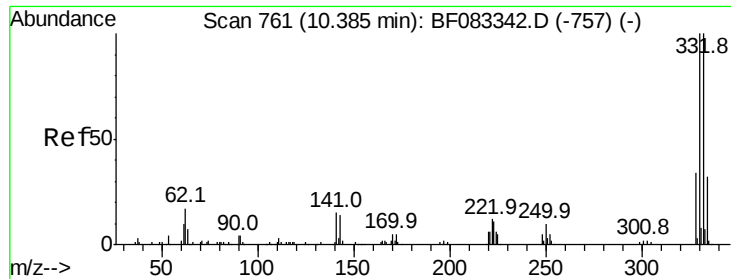


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.58 min Scan# 691  
 Delta R.T. -0.00 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

Tgt Ion: 164 Resp: 299945  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 104.7 | 82.6  | 123.8 |
| 160 | 44.5  | 35.3  | 52.9  |

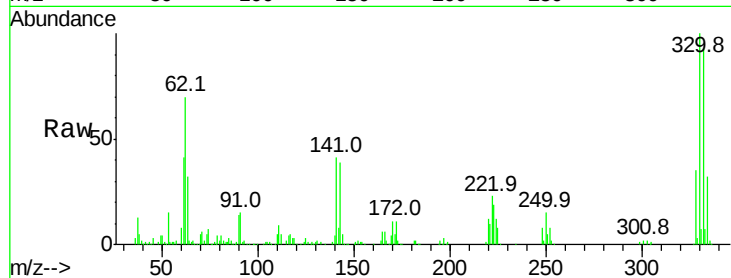




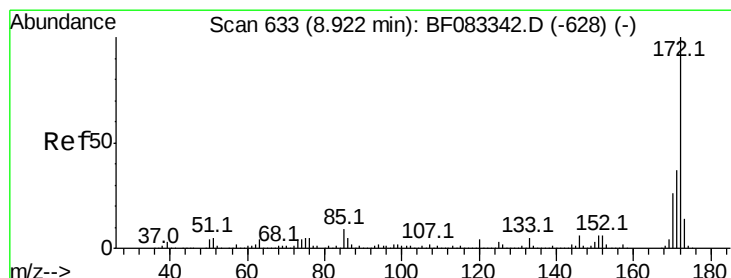
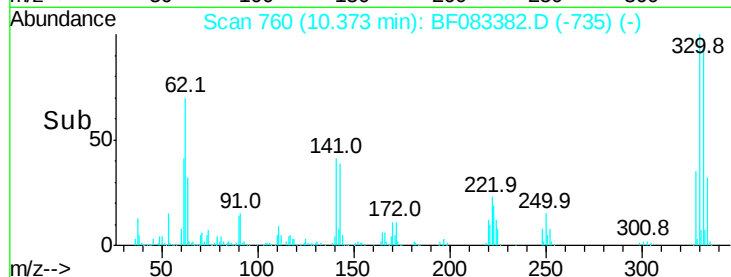
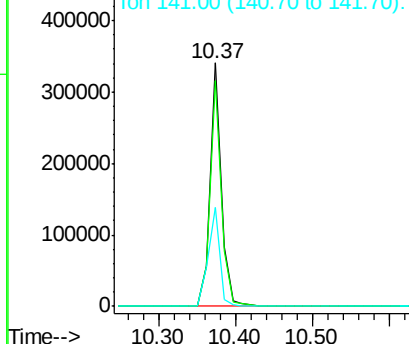
#41  
 2,4,6-Tribromophenol  
 Concen: 113.97 ng  
 RT: 10.37 min Scan# 760  
 Delta R.T. -0.01 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S22-15

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.7  | 77.8  | 116.6 |
| 141     | 42.1  | 29.4  | 44.0  |

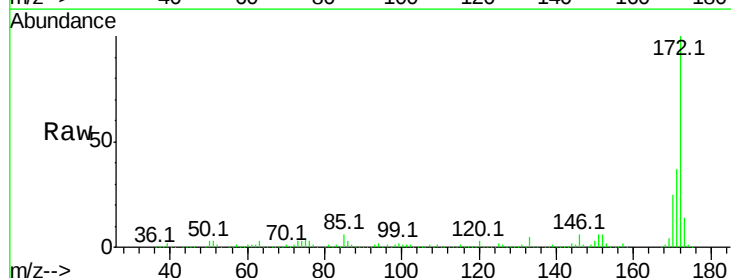


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

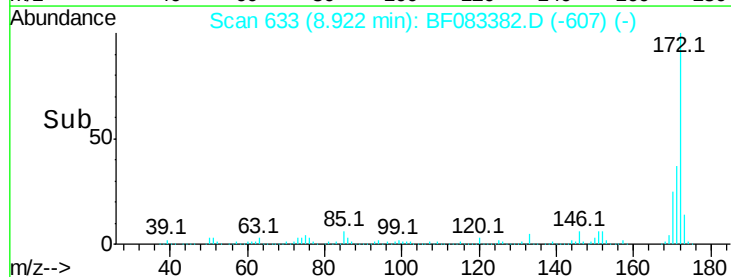
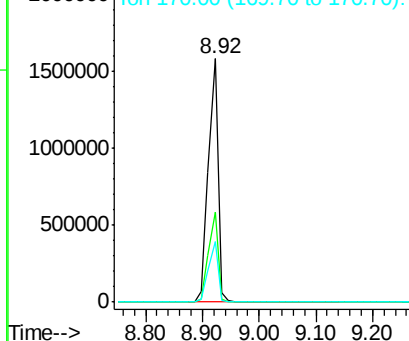


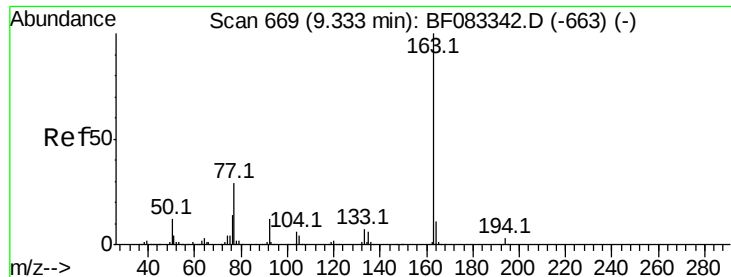
#44  
 2-Fluorobiphenyl  
 Concen: 84.48 ng  
 RT: 8.92 min Scan# 633  
 Delta R.T. -0.00 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.0  | 29.4  | 44.0  |
| 170     | 25.0  | 20.4  | 30.6  |



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

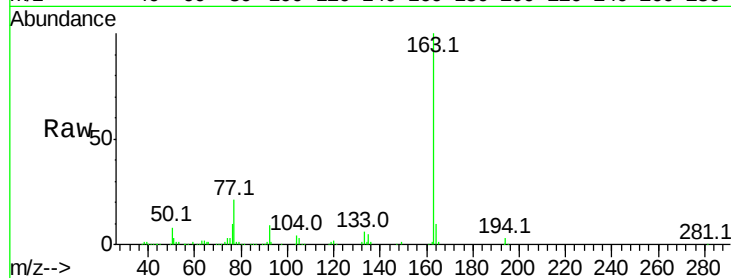




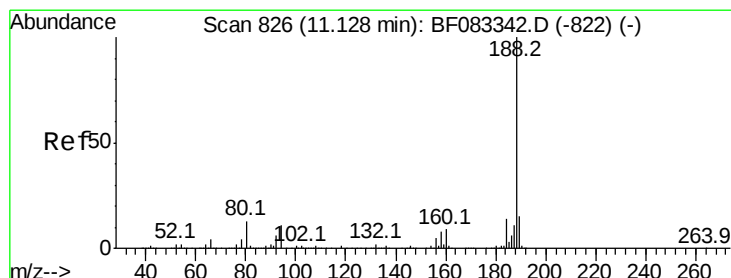
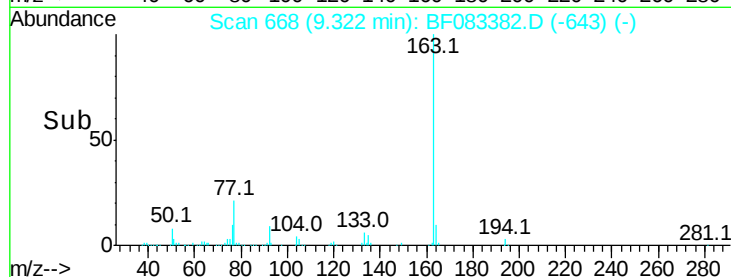
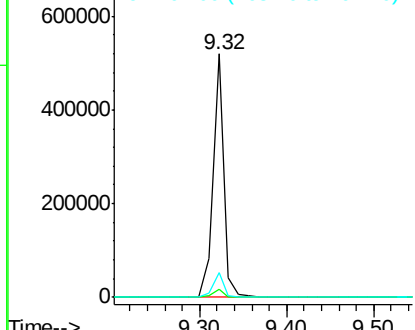
#49  
Dimethylphthalate  
Concen: 18.52 ng  
RT: 9.32 min Scan# 668  
Delta R.T. -0.01 min  
Lab File: BF083382.D  
Acq: 1 Dec 2015 19:56

Instrument :  
BNA\_F  
ClientSampleId :  
S22-15

Tot Ion:163 Resp: 451500  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.7 4.1  
164 10.2 8.8 13.2

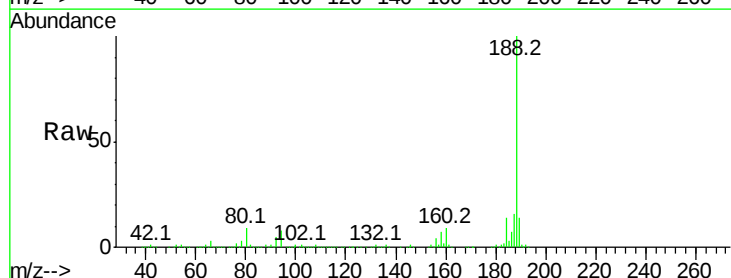


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

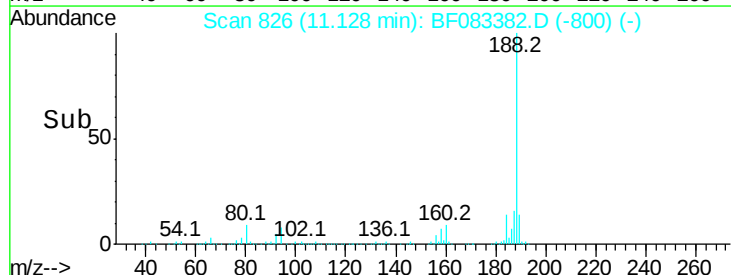
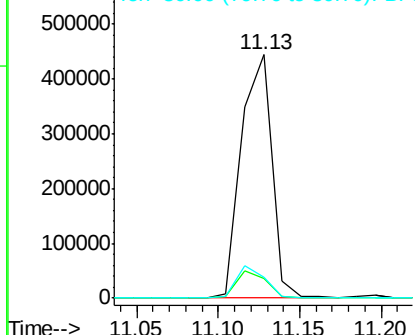


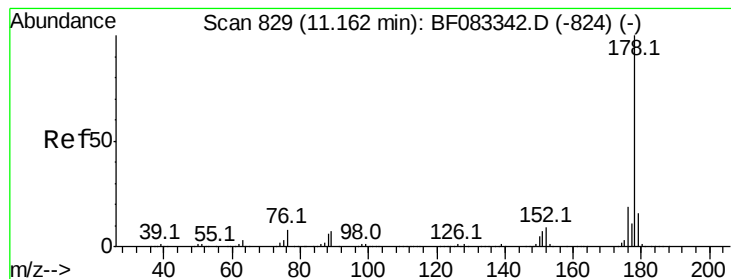
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 826  
Delta R.T. -0.00 min  
Lab File: BF083382.D  
Acq: 1 Dec 2015 19:56

Tgt Ion:188 Resp: 575320  
Ion Ratio Lower Upper  
188 100  
94 7.9 8.7 13.1#  
80 8.7 10.3 15.5#



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





#70

Phenanthrene

Concen: 4.38 ng

RT: 11.15 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

Instrument :

BNA\_F

ClientSampleId :

S22-15

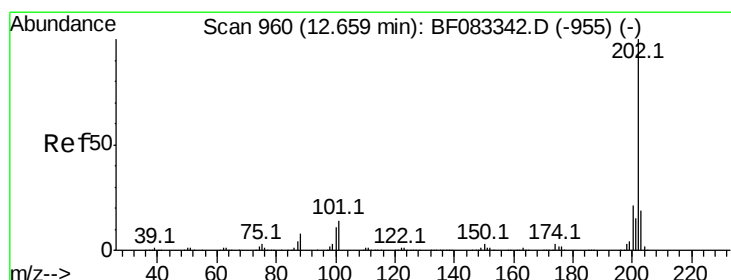
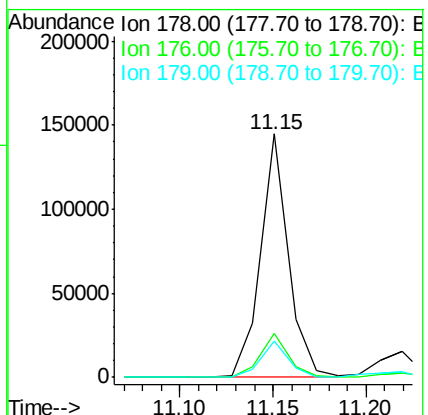
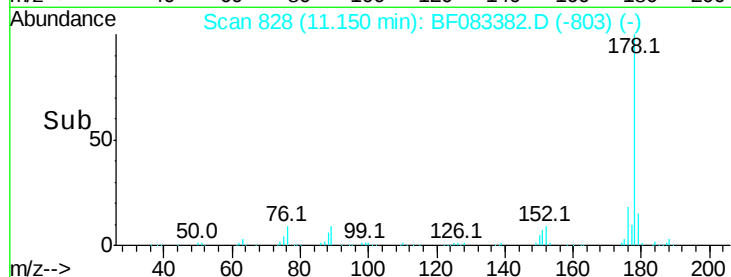
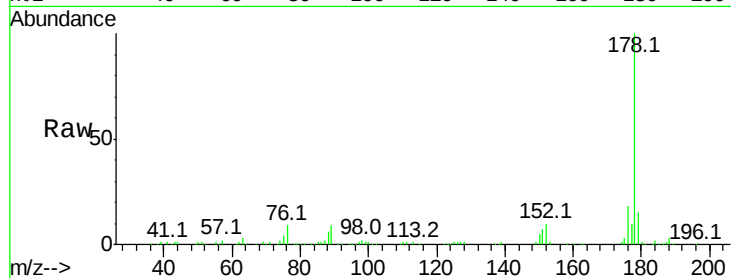
Tot Ion:178 Resp: 149221

Ion Ratio Lower Upper

178 100

176 18.2 15.3 22.9

179 14.9 12.4 18.6



#74

Fluoranthene

Concen: 3.90 ng

RT: 12.66 min Scan# 960

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

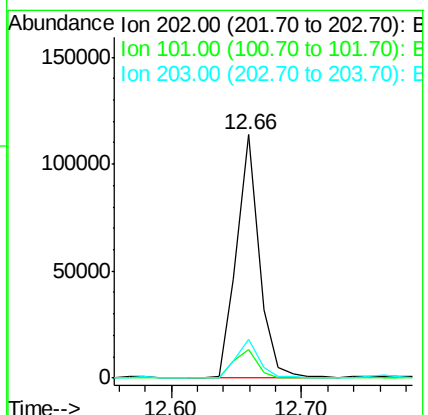
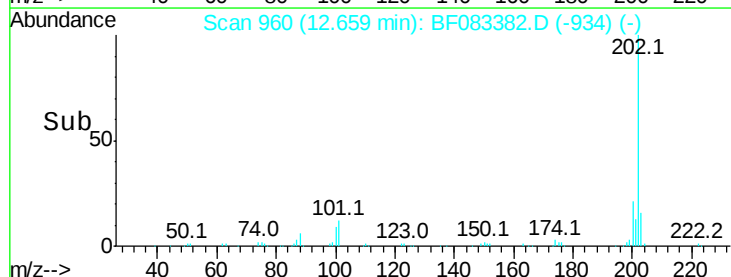
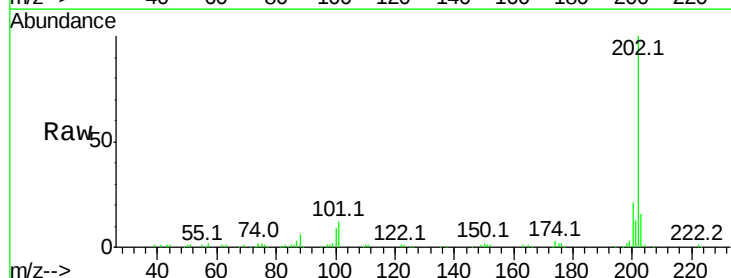
Tgt Ion:202 Resp: 137700

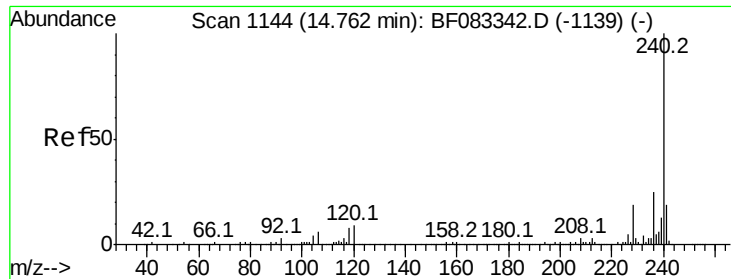
Ion Ratio Lower Upper

202 100

101 11.7 0.0 34.5

203 16.2 0.0 38.7

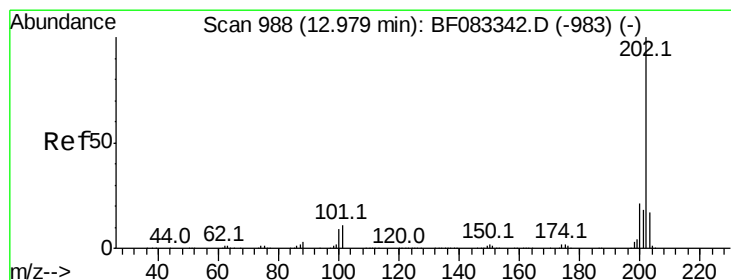
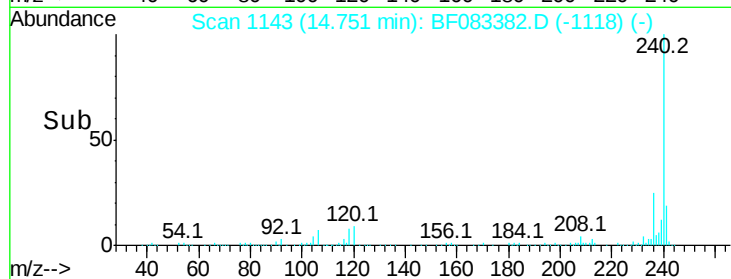
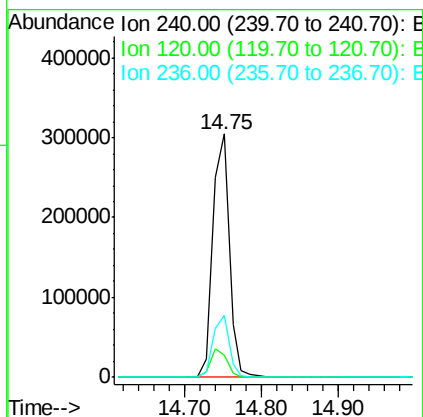
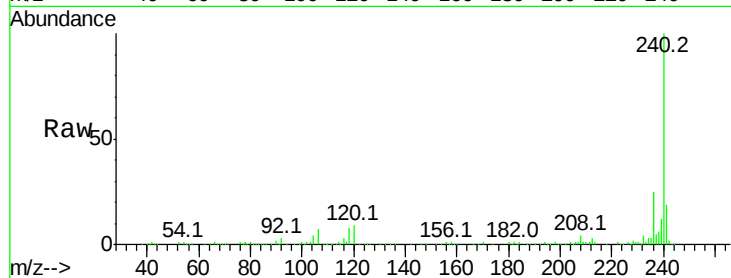




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.75 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

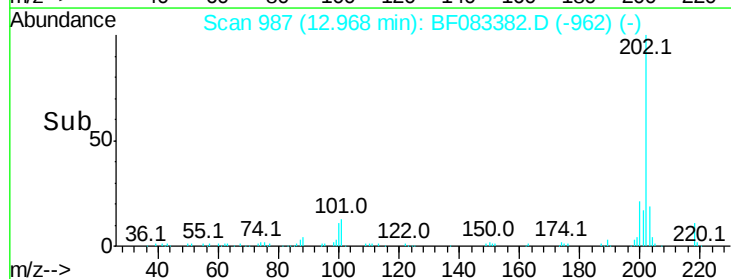
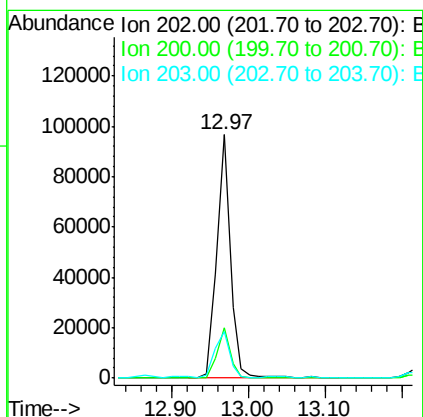
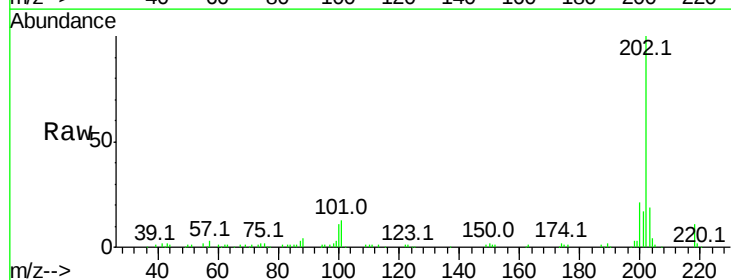
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S22-15

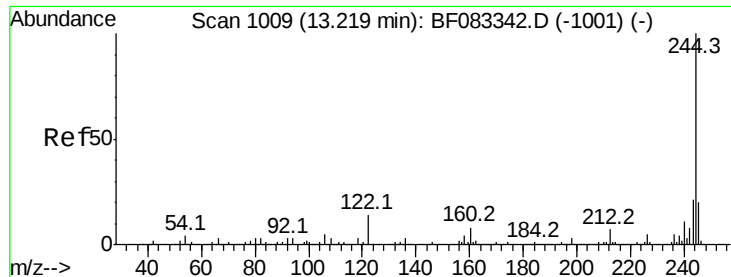
Tot Ion:240 Resp: 455534  
 Ion Ratio Lower Upper  
 240 100  
 120 9.2 6.9 10.3  
 236 25.3 19.8 29.6



#77  
 Pyrene  
 Concen: 3.81 ng  
 RT: 12.97 min Scan# 987  
 Delta R.T. -0.01 min  
 Lab File: BF083382.D  
 Acq: 1 Dec 2015 19:56

Tgt Ion:202 Resp: 121131  
 Ion Ratio Lower Upper  
 202 100  
 200 20.9 16.9 25.3  
 203 19.2 13.9 20.9





#78

Terphenyl-d14

Concen: 83.93 ng

RT: 13.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

Instrument :

BNA\_F

ClientSampleId :

S22-15

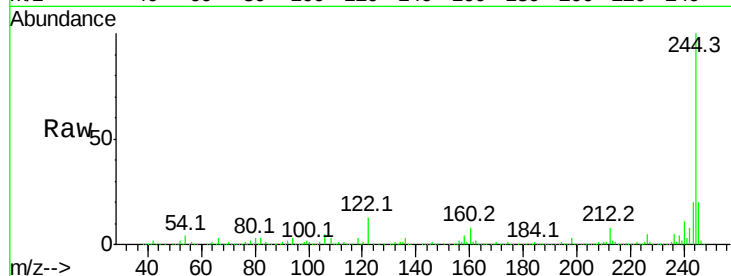
Tot Ion:244 Resp: 1603100

Ion Ratio Lower Upper

244 100

212 7.7 5.8 8.8

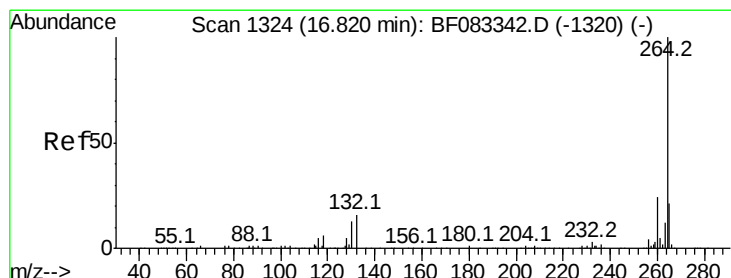
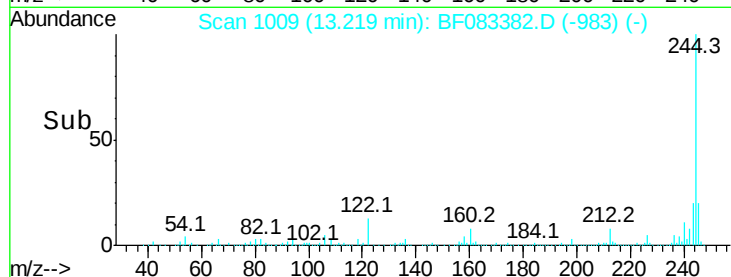
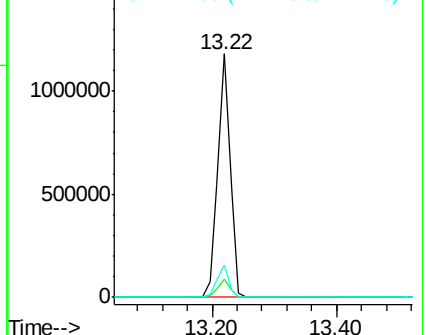
122 13.4 11.0 16.4



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 16.82 min Scan# 1324

Delta R.T. -0.00 min

Lab File: BF083382.D

Acq: 1 Dec 2015 19:56

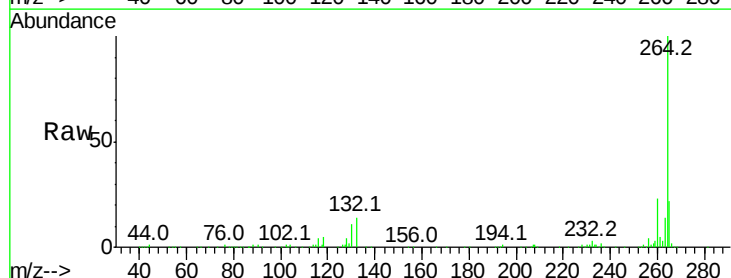
Tgt Ion:264 Resp: 329017

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.4

265 21.8 16.8 25.2



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

