

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112415\  
 Data File : BF083233.D  
 Acq On : 24 Nov 2015 13:24  
 Operator : UM/IZ  
 Sample : G4503-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 24 15:13:23 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 09:22:46 2015  
 Response via : Initial Calibration

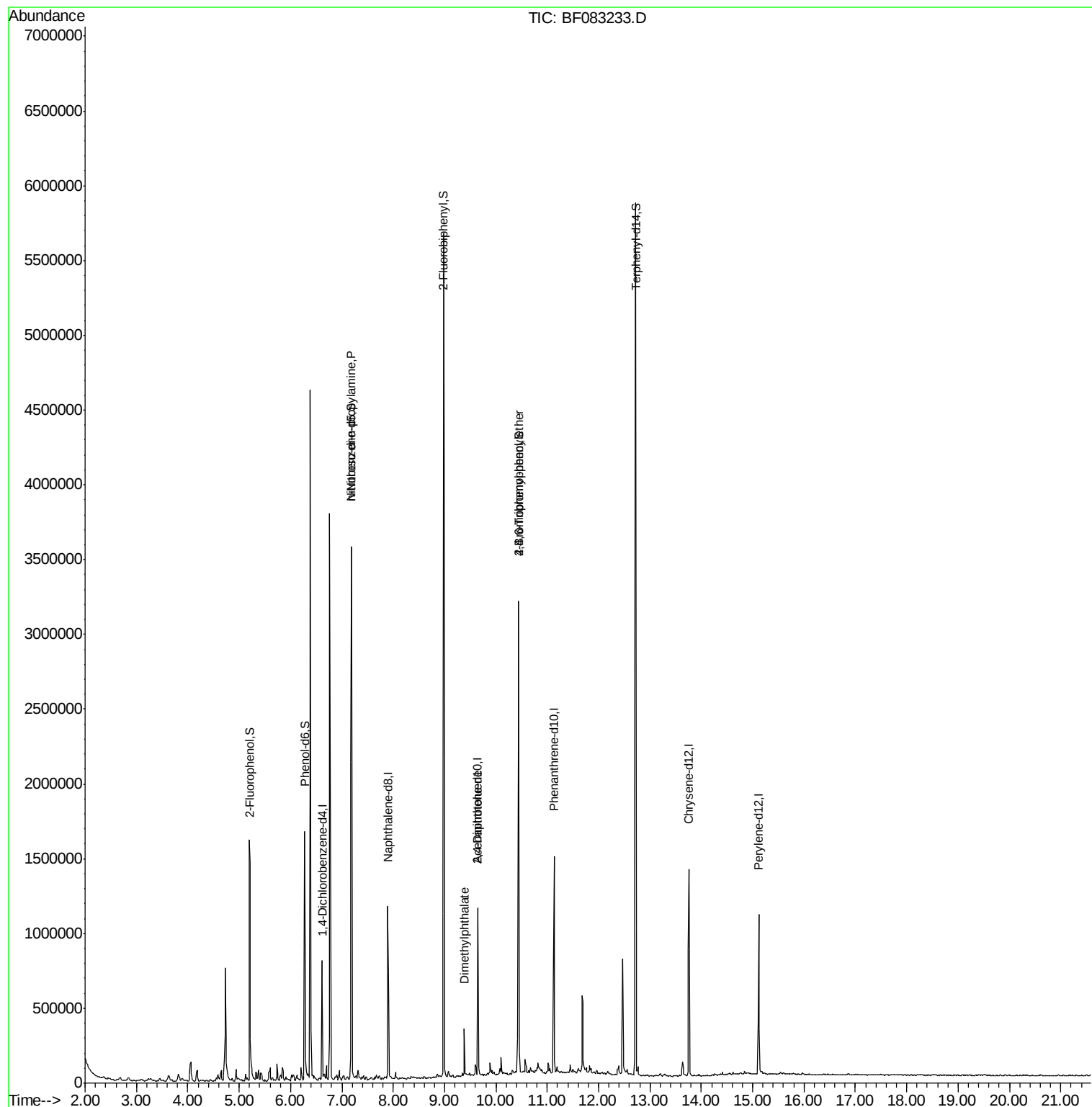
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.62  | 152  | 168258   | 20.00     | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.90  | 136  | 631498   | 20.00     | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.64  | 164  | 319481   | 20.00     | ng    | -0.06    |
| 63) Phenanthrene-d10           | 11.13 | 188  | 621085   | 20.00     | ng    | -0.05    |
| 75) Chrysene-d12               | 13.76 | 240  | 589383   | 20.00     | ng    | -0.05    |
| 86) Perylene-d12               | 15.12 | 264  | 444169   | 20.00     | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 668789   | 60.09     | ng    | -0.07    |
| 7) Phenol-d6                   | 6.27  | 99   | 569994   | 39.58     | ng    | -0.07    |
| 23) Nitrobenzene-d5            | 7.19  | 82   | 1438845  | 104.11    | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.44 | 330  | 469092   | 143.52    | ng    | -0.05    |
| 44) 2-Fluorobiphenyl           | 8.98  | 172  | 2007584  | 87.63     | ng    | -0.05    |
| 78) Terphenyl-d14              | 12.72 | 244  | 1903610  | 76.06     | ng    | -0.05    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.20  | 77   | 3734     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.19  | 70   | 201258   | 20.08     | ng    | # 75     |
| 49) Dimethylphthalate          | 9.38  | 163  | 114491   | 4.65      | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.64  | 165  | 43290    | 6.19      | ng    | # 11     |
| 66) 4-Bromophenyl-phenylether  | 10.44 | 248  | 33142    | 4.81      | ng    | # 1      |

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112415\  
Data File : BF083233.D  
Acq On : 24 Nov 2015 13:24  
Operator : UM/IZ  
Sample : G4503-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 24 15:13:23 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF112115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 09:22:46 2015  
Response via : Initial Calibration

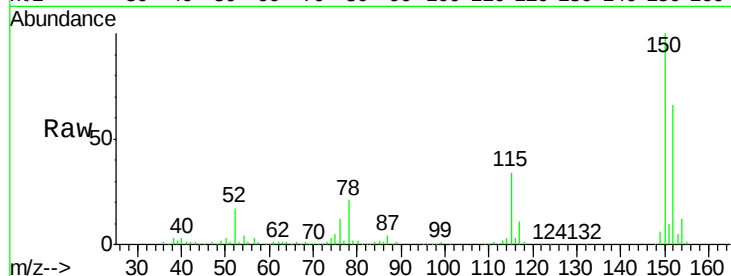




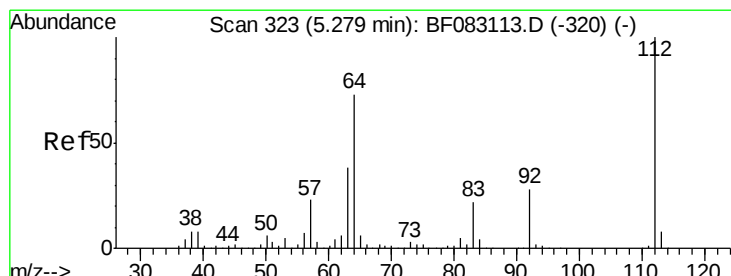
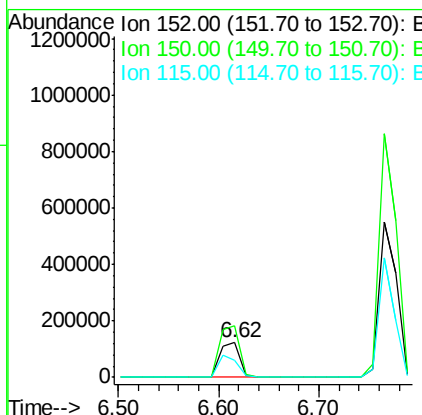
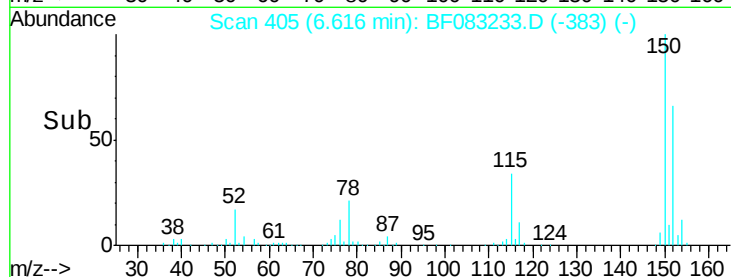
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.62 min Scan# 405  
 Delta R.T. -0.05 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 168258  
 Ion Ratio Lower Upper  
 152 100  
 150 151.2 125.8 188.8  
 115 51.4 46.9 70.3

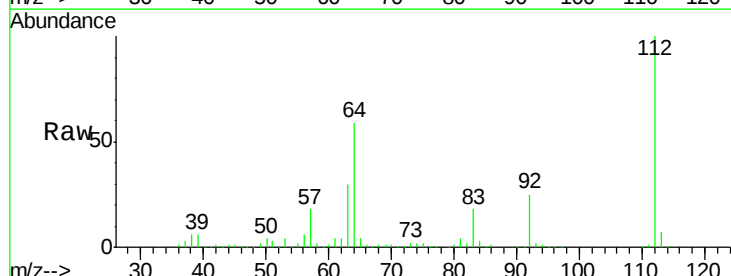


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

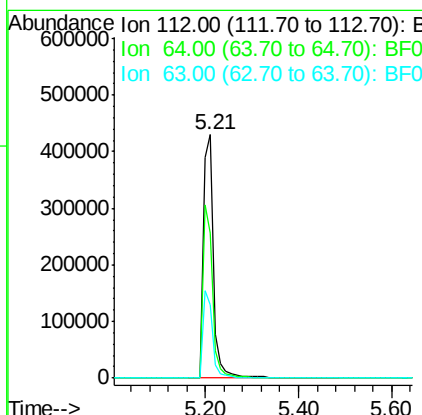
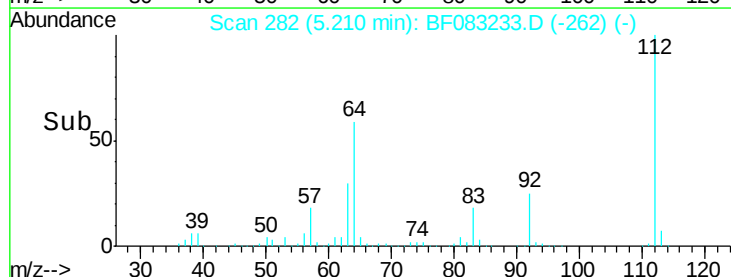


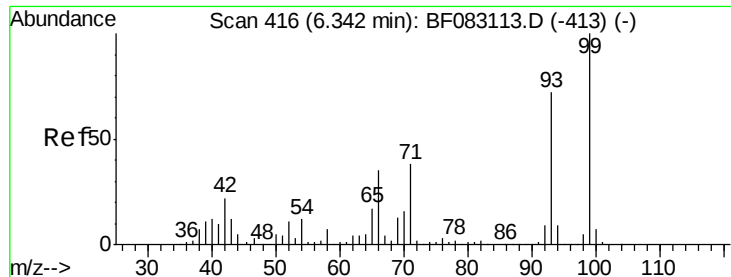
#5  
 2-Fluorophenol  
 Concen: 60.09 ng  
 RT: 5.21 min Scan# 282  
 Delta R.T. -0.07 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Tgt Ion:112 Resp: 668789  
 Ion Ratio Lower Upper  
 112 100  
 64 59.4 58.4 87.6  
 63 30.1 30.0 45.0



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: 39.58 ng

RT: 6.27 min Scan# 375

Delta R.T. -0.07 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

Instrument :

BNA\_F

ClientSampleId :

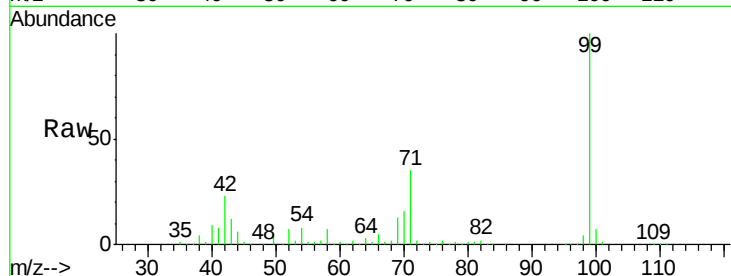
Tot Ion: 99 Resp: 569994

Ion Ratio Lower Upper

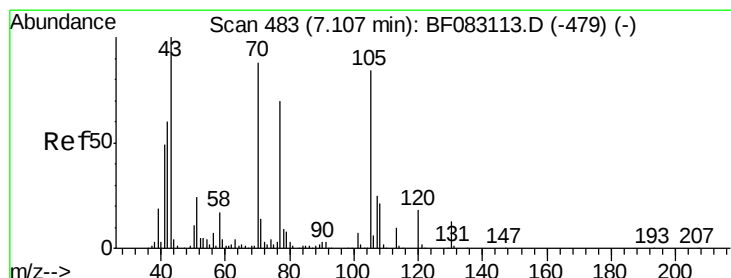
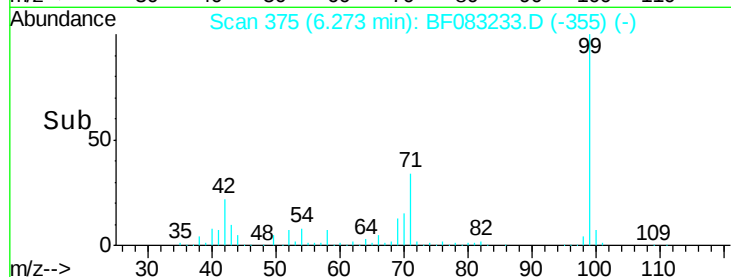
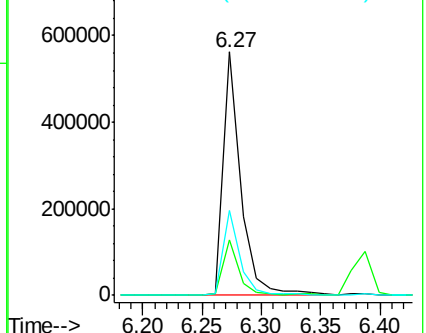
99 100

42 22.5 17.7 26.5

71 34.7 30.2 45.4



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



#19

n-Nitroso-di-n-propylamine

Concen: 20.08 ng

RT: 7.19 min Scan# 455

Delta R.T. 0.08 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

Tgt Ion: 70 Resp: 201258

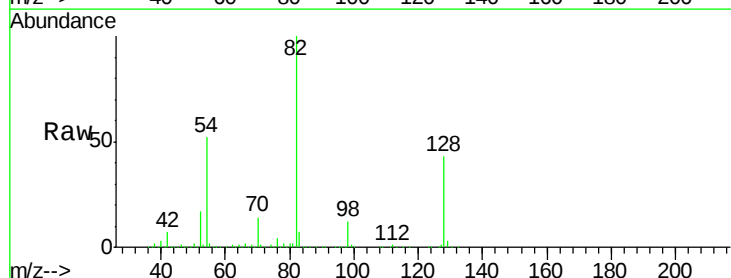
Ion Ratio Lower Upper

70 100

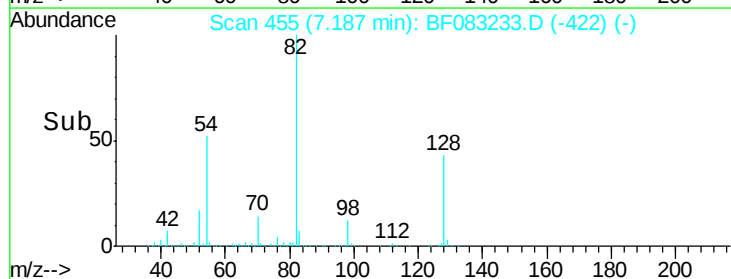
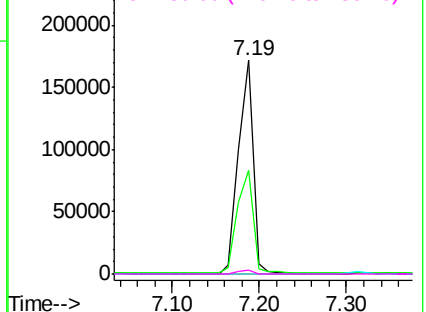
42 48.7 54.5 81.7#

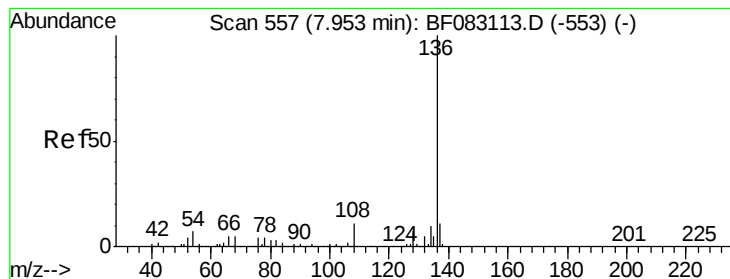
101 0.0 6.6 9.8#

130 1.9 11.5 17.3#



Abundance Ion 70.00 (69.70 to 70.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 101.00 (100.70 to 101.70): BF0  
Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 517

Delta R.T. -0.06 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 631498

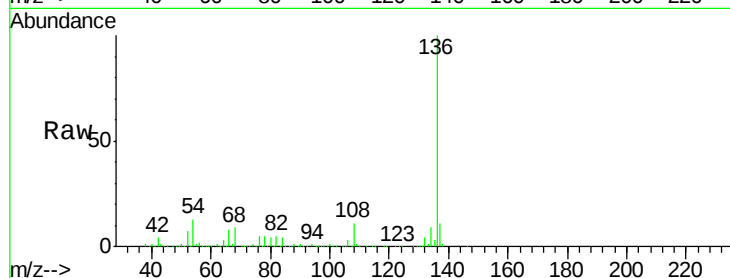
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 13.4 5.8 8.6#

68 8.9 3.8 5.8#

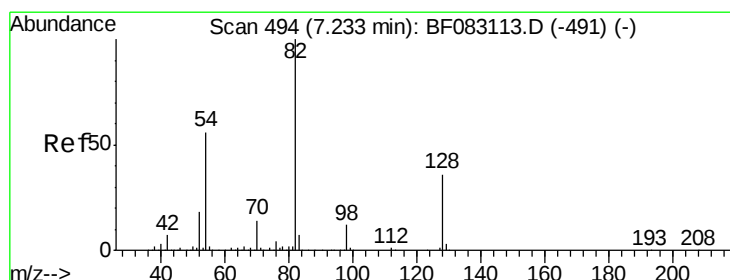
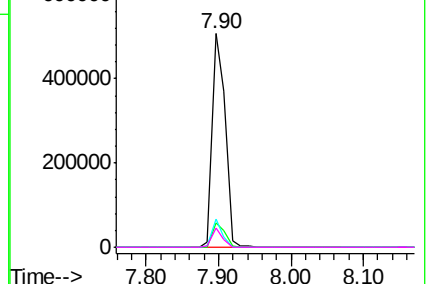
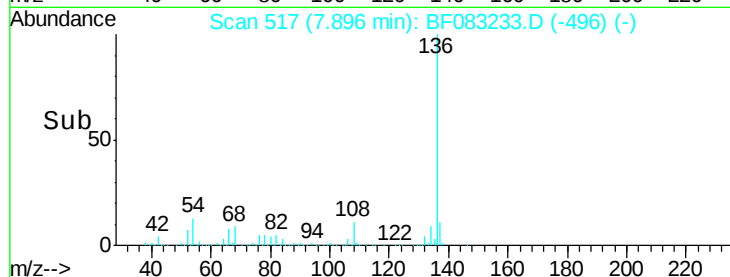


Abundance Ion 136.00 (135.70 to 136.70): E

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: 104.11 ng

RT: 7.19 min Scan# 455

Delta R.T. -0.05 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

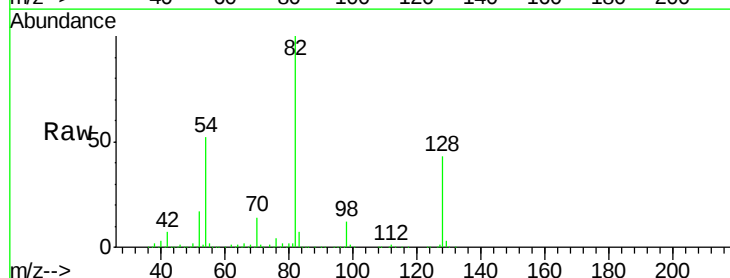
Tgt Ion: 82 Resp: 1438845

Ion Ratio Lower Upper

82 100

128 42.6 28.5 42.7

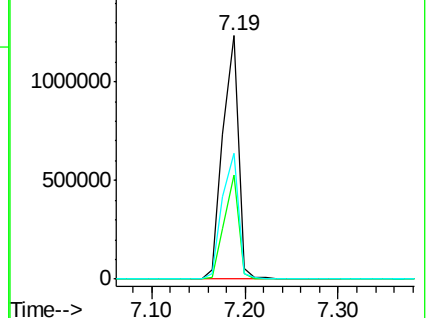
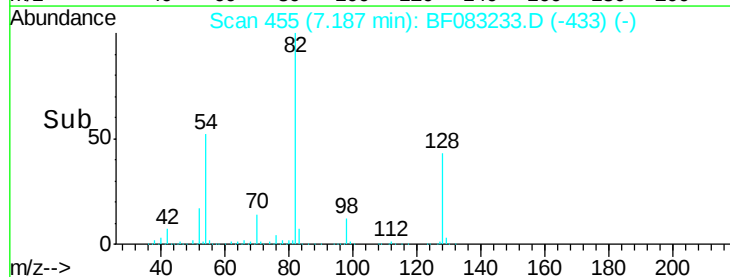
54 51.8 44.6 67.0

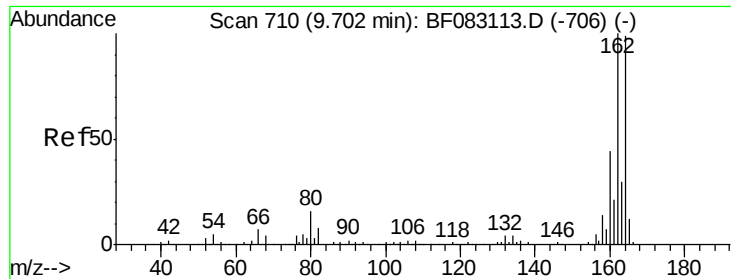


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

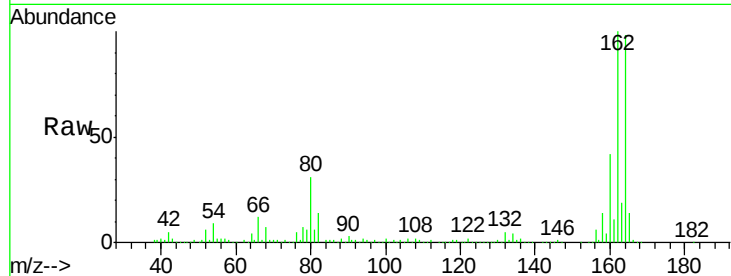




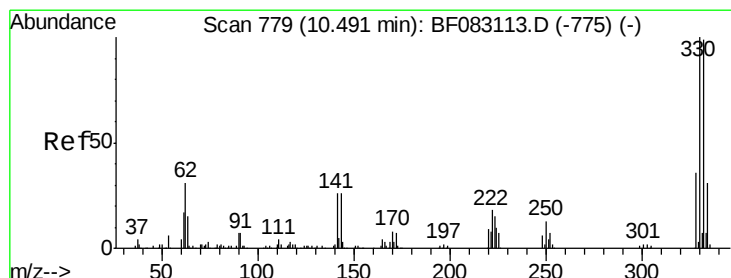
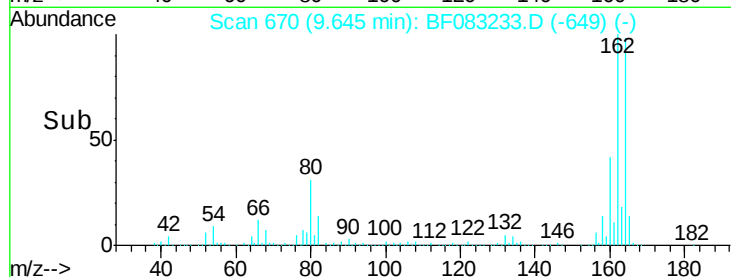
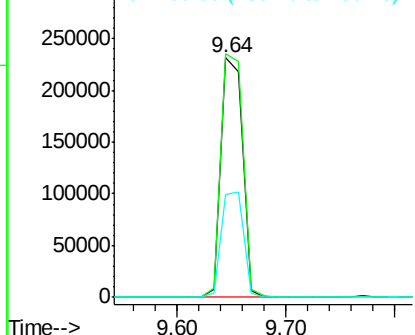
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.64 min Scan# 670  
 Delta R.T. -0.06 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 319481  
 Ion Ratio Lower Upper  
 164 100  
 162 101.7 81.2 121.8  
 160 43.0 35.6 53.4

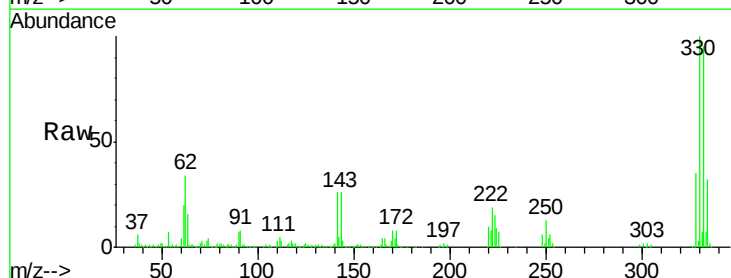


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

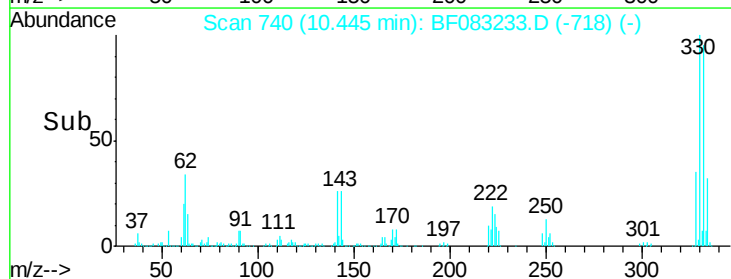
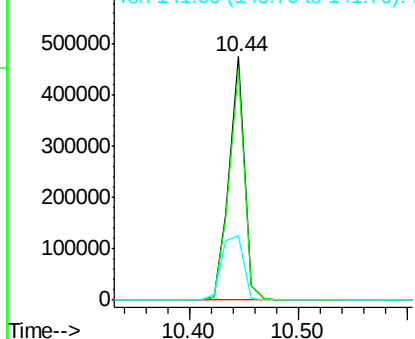


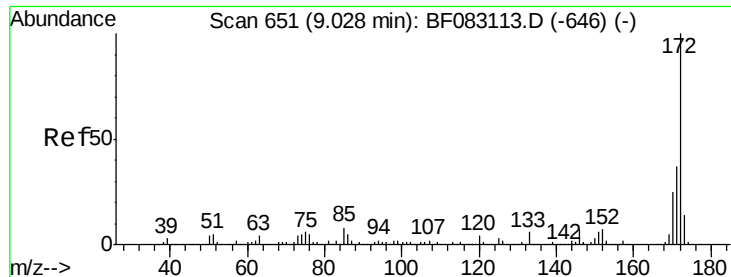
#41  
 2,4,6-Tribromophenol  
 Concen: 143.52 ng  
 RT: 10.44 min Scan# 740  
 Delta R.T. -0.05 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Tgt Ion:330 Resp: 469092  
 Ion Ratio Lower Upper  
 330 100  
 332 94.9 77.7 116.5  
 141 37.3 29.7 44.5



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

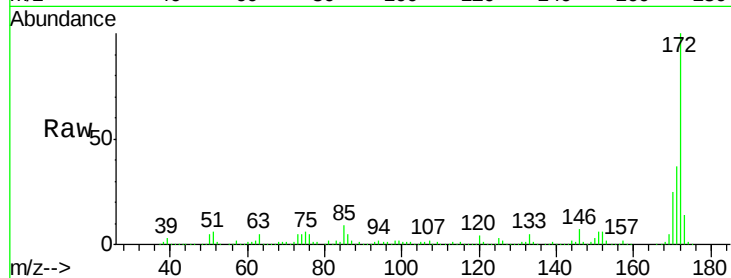




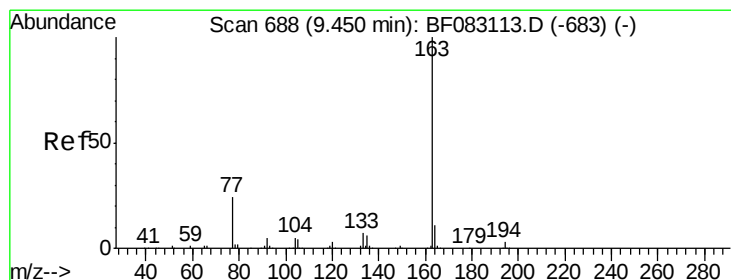
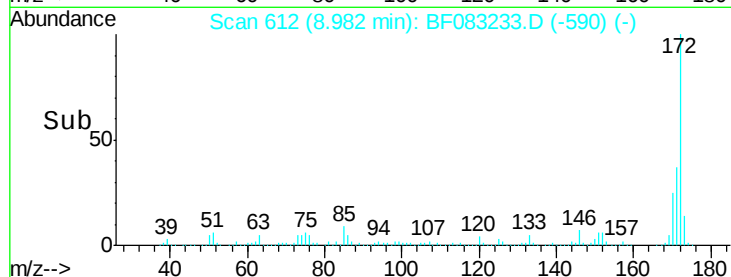
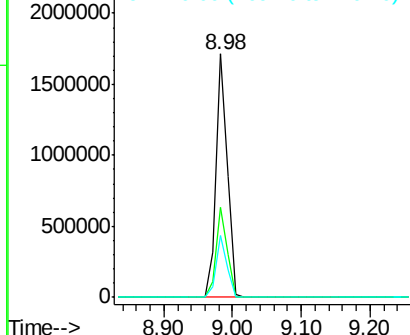
#44  
 2-Fluorobiphenyl  
 Concen: 87.63 ng  
 RT: 8.98 min Scan# 612  
 Delta R.T. -0.05 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:172 Resp: 2007584  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.5 44.3  
 170 25.5 19.9 29.9

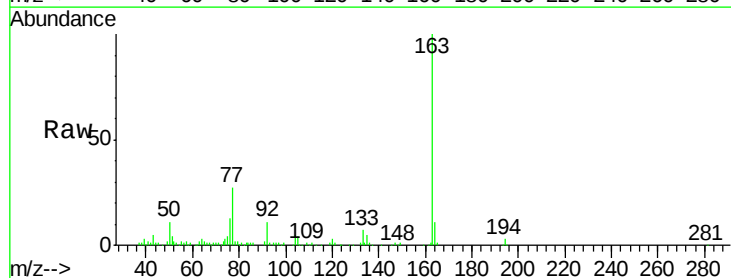


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

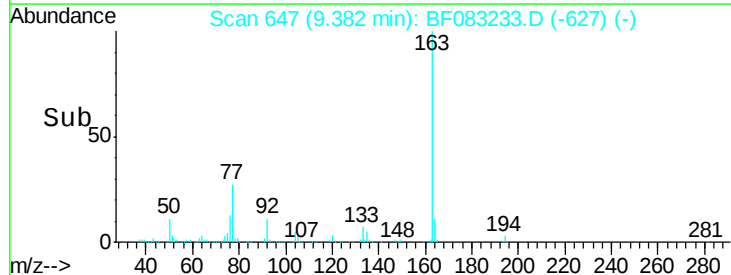
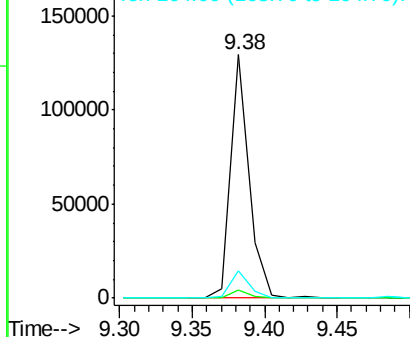


#49  
 Dimethylphthalate  
 Concen: 4.65 ng  
 RT: 9.38 min Scan# 647  
 Delta R.T. -0.07 min  
 Lab File: BF083233.D  
 Acq: 24 Nov 2015 13:24

Tgt Ion:163 Resp: 114491  
 Ion Ratio Lower Upper  
 163 100  
 194 3.3 2.6 4.0  
 164 11.2 8.6 12.8



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

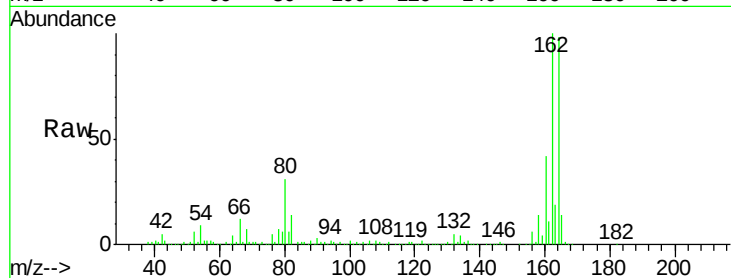




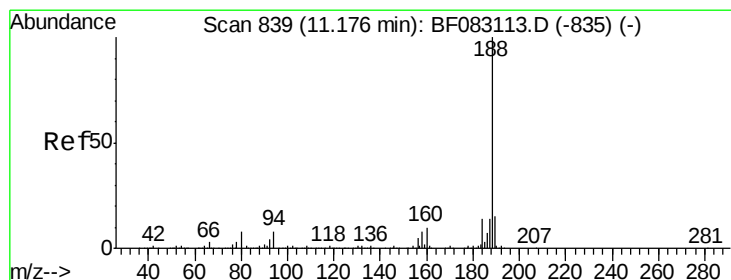
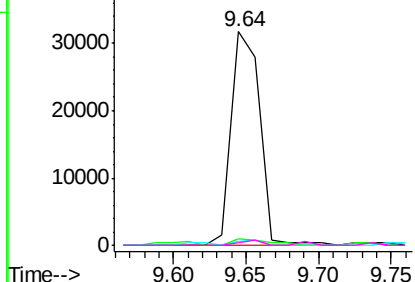
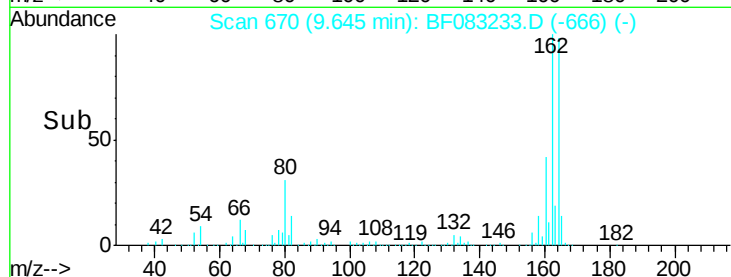
#56  
2,4-Dinitrotoluene  
Concen: 6.19 ng  
RT: 9.64 min Scan# 670  
Delta R.T. -0.25 min  
Lab File: BF083233.D  
Acq: 24 Nov 2015 13:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 43290  
Ion Ratio Lower Upper  
165 100  
63 3.0 54.5 81.7#  
89 2.1 77.3 115.9#  
182 1.3 1.8 2.6#

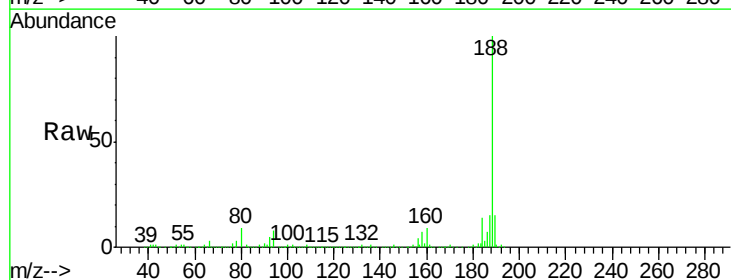


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E

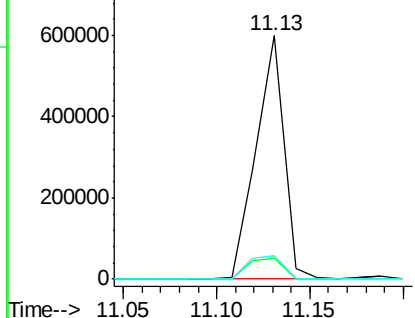
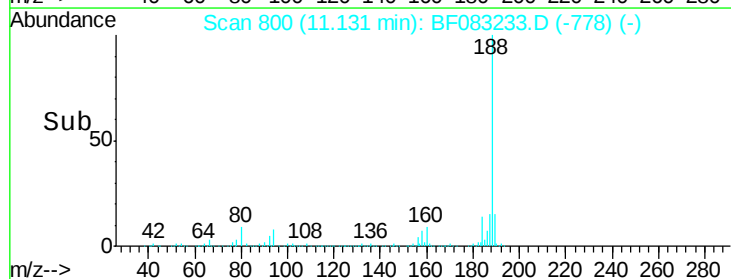


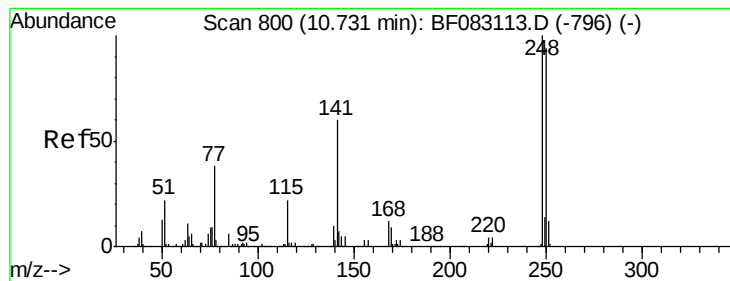
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.13 min Scan# 800  
Delta R.T. -0.05 min  
Lab File: BF083233.D  
Acq: 24 Nov 2015 13:24

Tgt Ion:188 Resp: 621085  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.0 9.0  
80 9.4 6.7 10.1



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





#66

4-Bromophenyl-phenylether

Concen: 4.81 ng

RT: 10.44 min Scan# 740

Delta R.T. -0.29 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

Instrument :

BNA\_F

ClientSampleId :

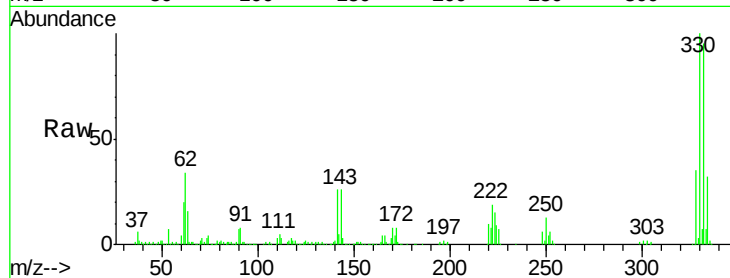
Tot Ion:248 Resp: 33142

Ion Ratio Lower Upper

248 100

250 208.0 75.4 113.2#

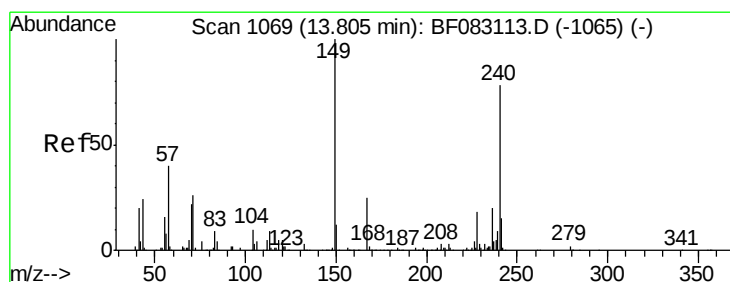
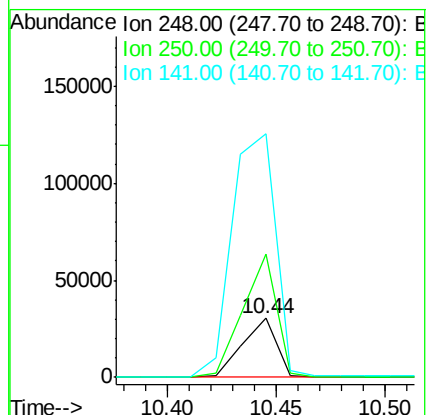
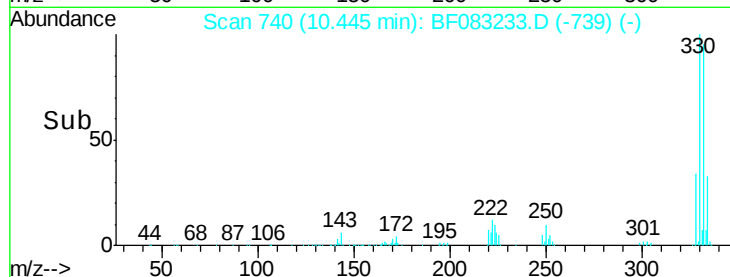
141 411.2 48.1 72.1#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1030

Delta R.T. -0.05 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

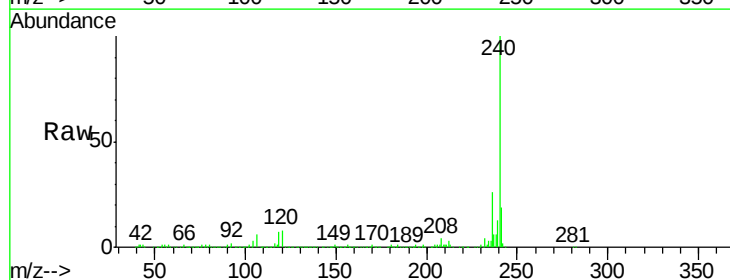
Tgt Ion:240 Resp: 589383

Ion Ratio Lower Upper

240 100

120 7.9 5.4 8.2

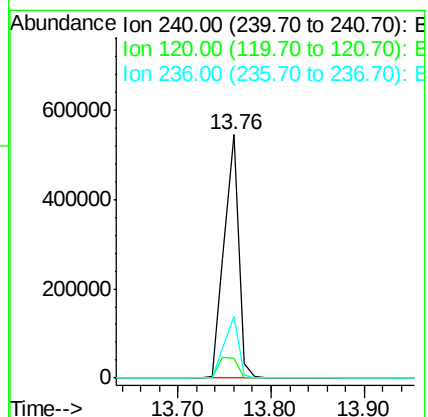
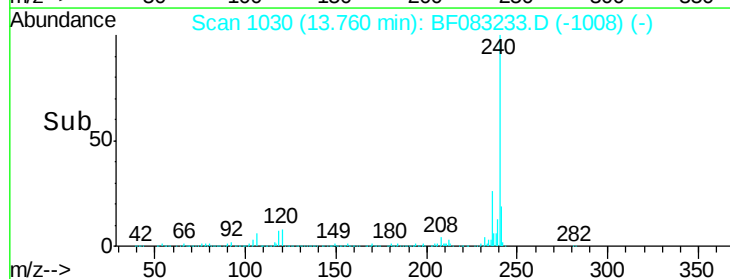
236 25.6 20.6 31.0

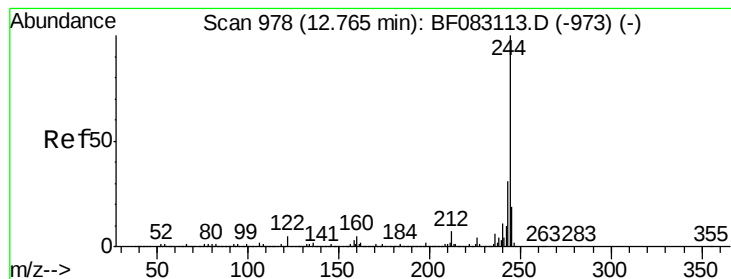


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 76.06 ng

RT: 12.72 min Scan# 939

Delta R.T. -0.05 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

Instrument :

BNA\_F

ClientSampled :

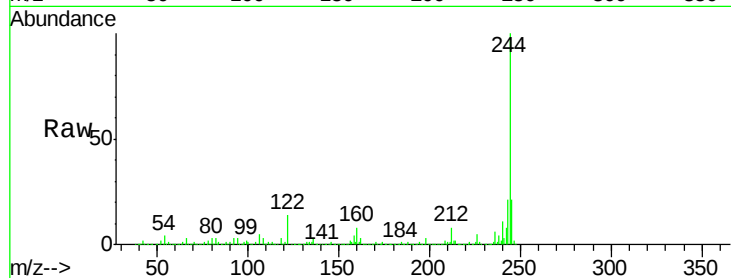
Tot Ion:244 Resp: 1903610

Ion Ratio Lower Upper

244 100

212 8.1 5.4 8.2

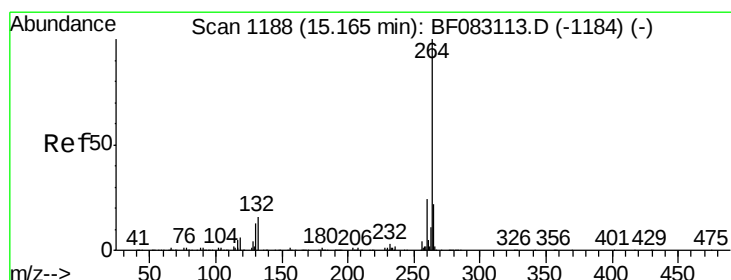
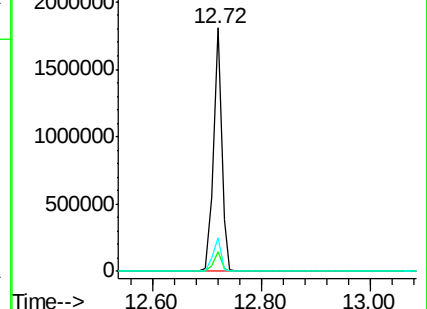
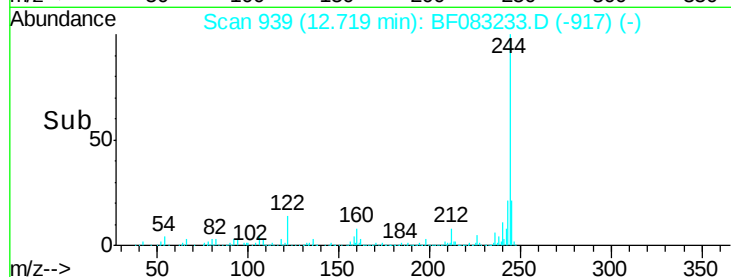
122 13.8 4.3 6.5#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.12 min Scan# 1149

Delta R.T. -0.05 min

Lab File: BF083233.D

Acq: 24 Nov 2015 13:24

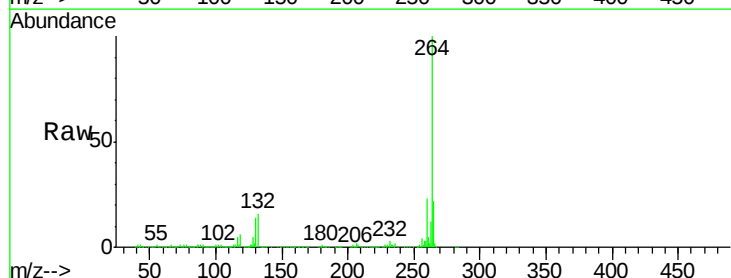
Tgt Ion:264 Resp: 444169

Ion Ratio Lower Upper

264 100

260 23.4 19.1 28.7

265 22.1 18.2 27.4



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

