

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020316\  
 Data File : BF084788.D  
 Acq On : 3 Feb 2016 16:53  
 Operator : SJ/IZ  
 Sample : PB88159BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88159BL

Quant Time: Feb 04 00:26:21 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

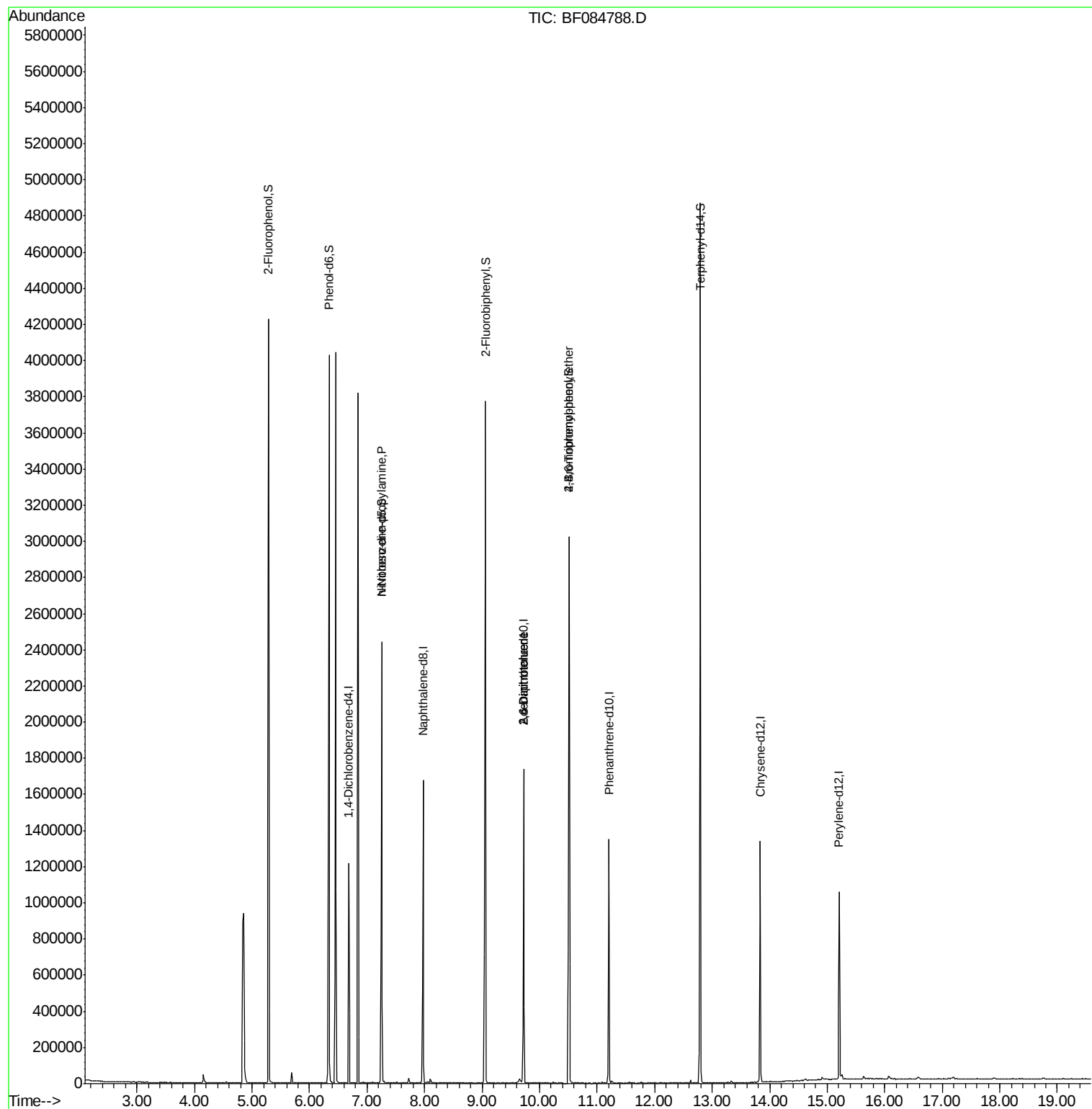
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.68  | 152  | 182984   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.97  | 136  | 783415   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.72  | 164  | 359314   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.21 | 188  | 686563   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.84 | 240  | 600603   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.21 | 264  | 434669   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 1145228  | 97.48  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.34  | 99   | 1426586  | 97.95  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.25  | 82   | 845361   | 60.79  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.51 | 330  | 375175   | 100.10 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.06  | 172  | 1741819  | 80.04  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.80 | 244  | 1724718  | 65.07  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.25  | 70   | 116300   | 12.74  | ng    | # 72     |
| 50) 2,6-Dinitrotoluene         | 9.72  | 165  | 45768    | 7.66   | ng    | # 38     |
| 56) 2,4-Dinitrotoluene         | 9.72  | 165  | 45768    | 6.00   | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.51 | 248  | 21982    | 2.90   | ng    | # 1      |

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

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
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QLast Update : Wed Feb 03 14:16:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. -0.00 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB88159BL

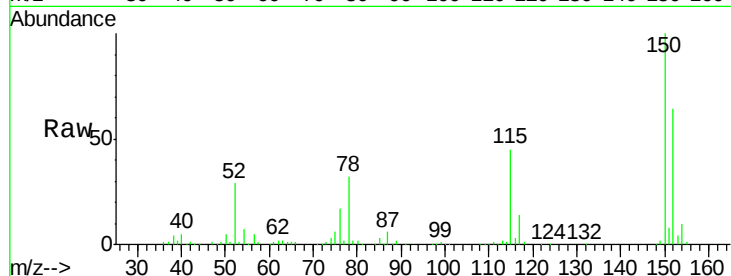
Tgt Ion:152 Resp: 182984

Ion Ratio Lower Upper

152 100

150 155.8 123.0 184.4

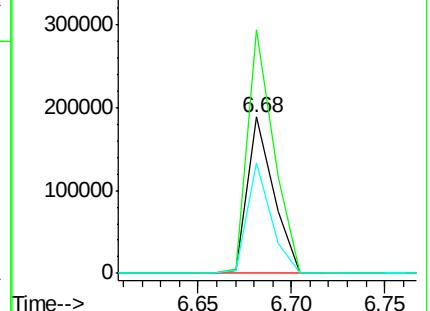
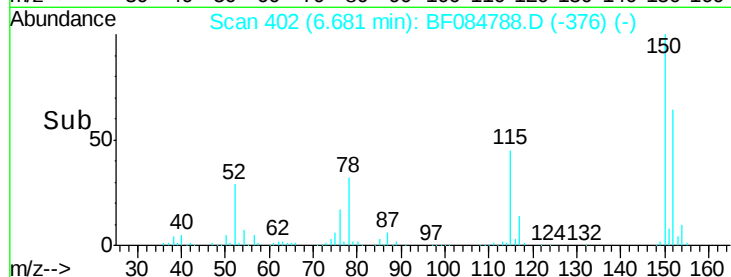
115 70.8 51.4 77.2



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: 97.48 ng

RT: 5.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

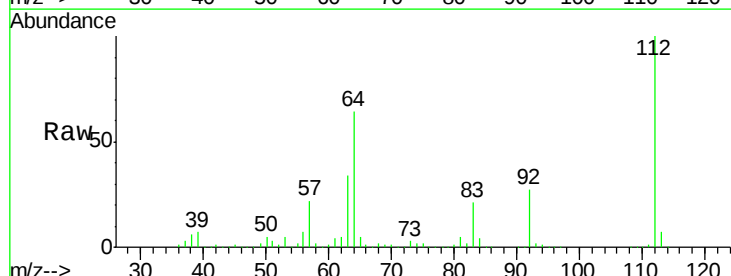
Tgt Ion:112 Resp: 1145228

Ion Ratio Lower Upper

112 100

64 64.3 36.6 55.0#

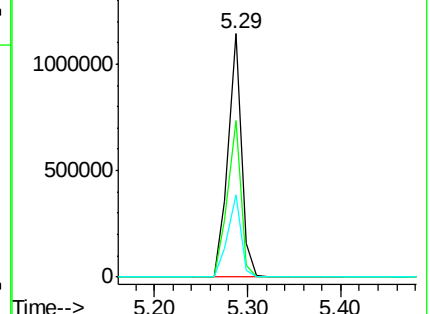
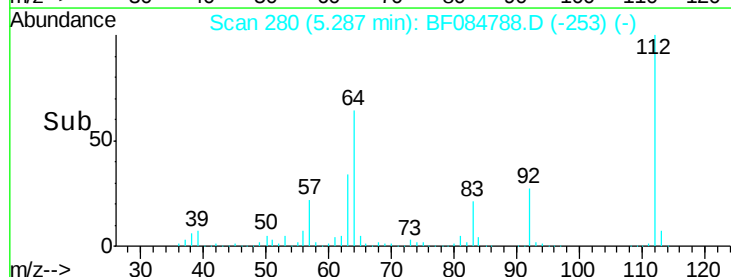
63 33.7 19.4 29.0#



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: 97.95 ng

RT: 6.34 min Scan# 372

Delta R.T. -0.00 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB88159BL

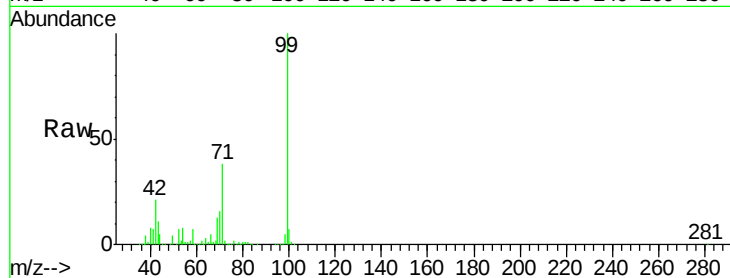
Tgt Ion: 99 Resp: 1426586

Ion Ratio Lower Upper

99 100

42 20.6 12.8 19.2#

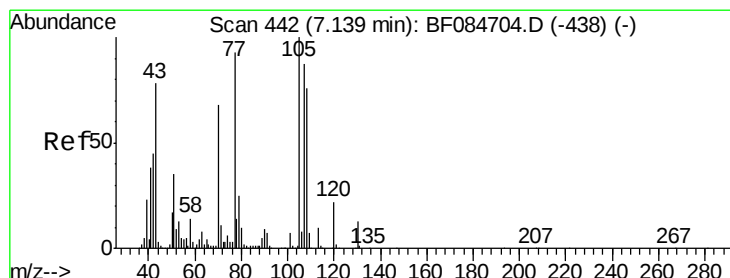
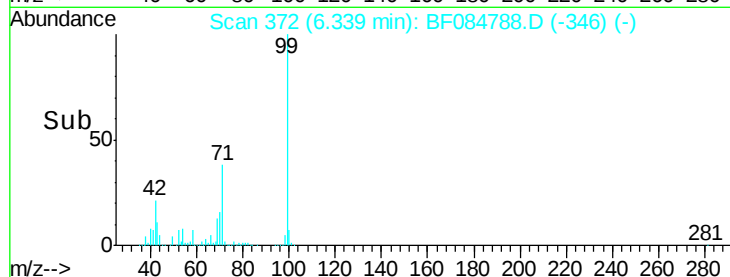
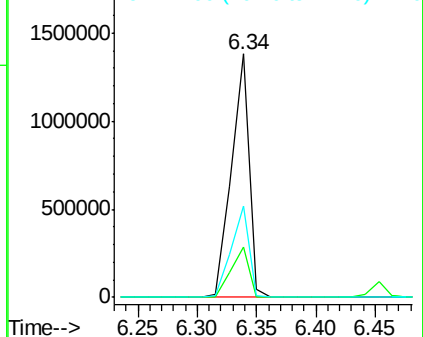
71 37.6 30.9 46.3



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: 12.74 ng

RT: 7.25 min Scan# 452

Delta R.T. 0.14 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

Tgt Ion: 70 Resp: 116300

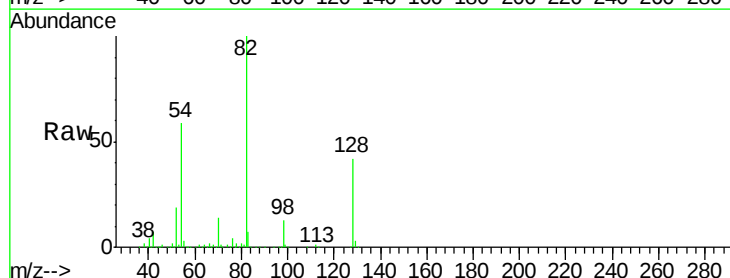
Ion Ratio Lower Upper

70 100

42 49.3 33.3 49.9

101 0.0 9.3 13.9#

130 2.0 23.4 35.0#

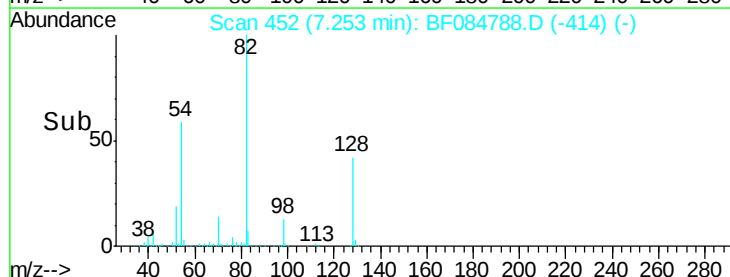
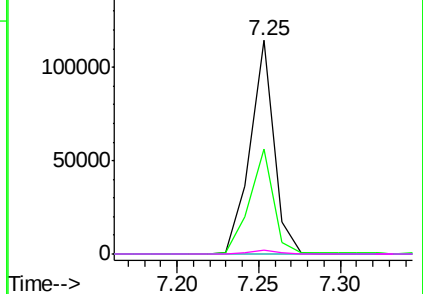


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.97 min Scan# 515

Delta R.T. -0.00 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB88159BL

Tgt Ion: 136 Resp: 783415

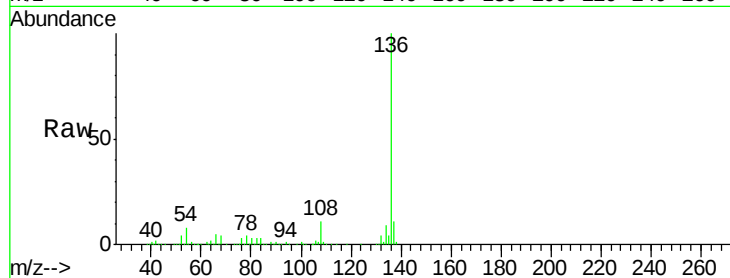
Ion Ratio Lower Upper

136 100

137 11.3 8.7 13.1

54 8.0 5.8 8.8

68 4.5 4.2 6.2

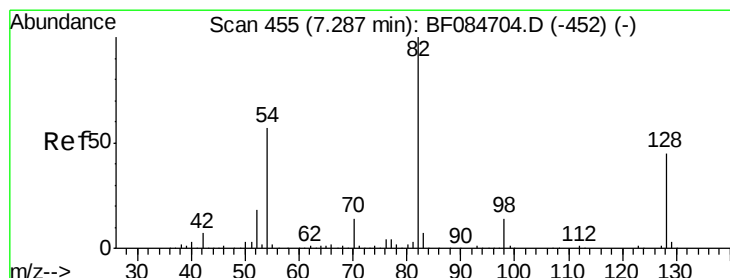
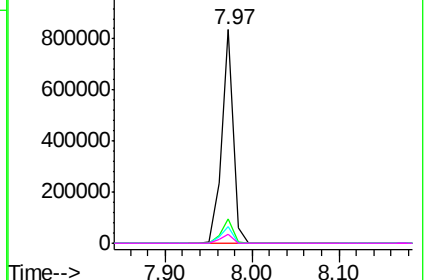
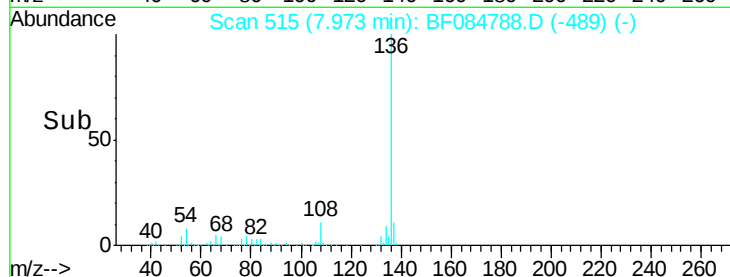


Abundance Ion 136.00 (135.70 to 136.70): E

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: 60.79 ng

RT: 7.25 min Scan# 452

Delta R.T. -0.01 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

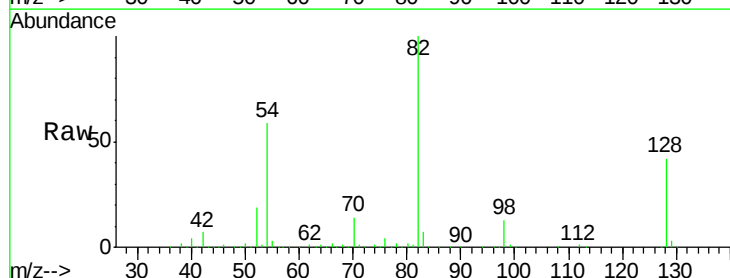
Tgt Ion: 82 Resp: 845361

Ion Ratio Lower Upper

82 100

128 42.5 34.6 51.8

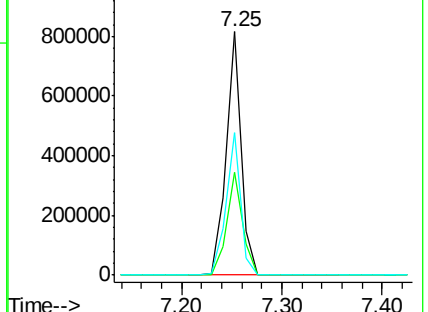
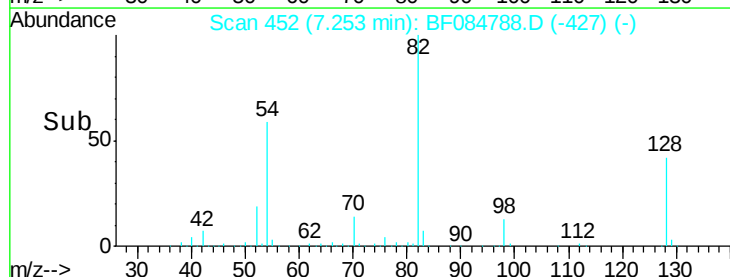
54 58.6 38.4 57.6#

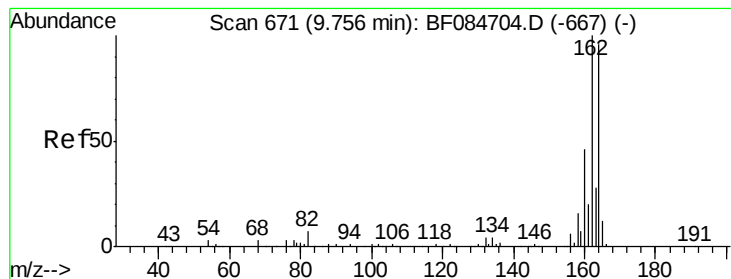


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 9.72 min Scan# 668

Delta R.T. -0.01 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

Instrument :

BNA\_F

ClientSampleId :

PB88159BL

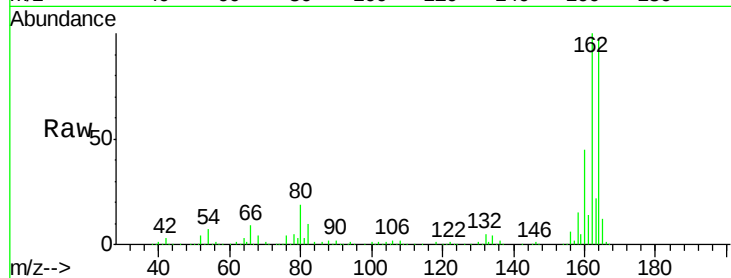
Tgt Ion:164 Resp: 359314

Ion Ratio Lower Upper

164 100

162 103.6 85.1 127.7

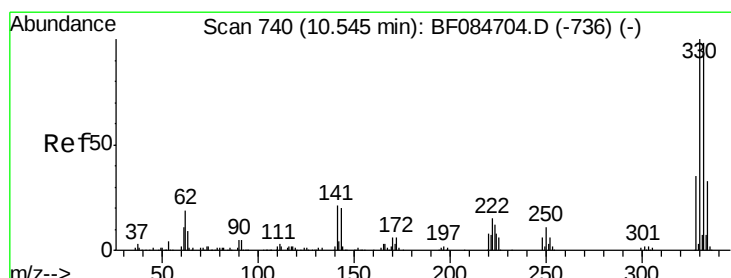
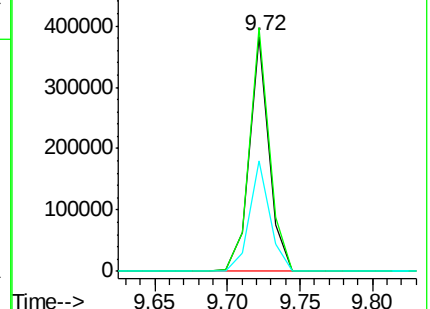
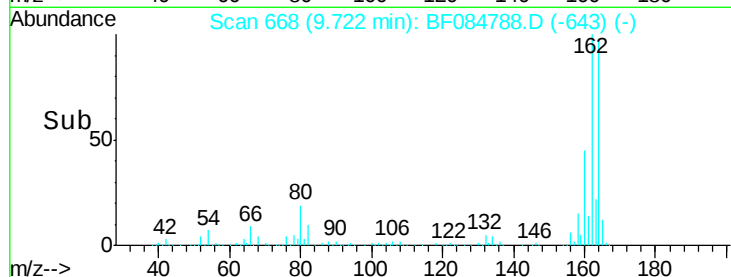
160 46.9 37.5 56.3



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: 100.10 ng

RT: 10.51 min Scan# 737

Delta R.T. -0.01 min

Lab File: BF084788.D

Acq: 3 Feb 2016 16:53

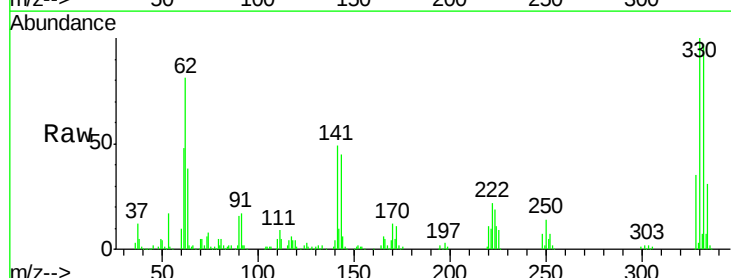
Tgt Ion:330 Resp: 375175

Ion Ratio Lower Upper

330 100

332 97.5 76.6 114.8

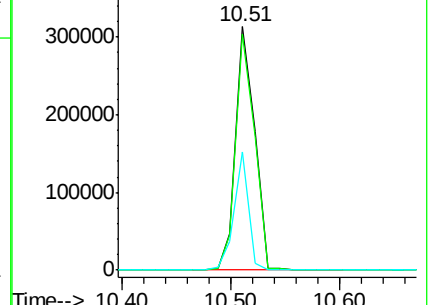
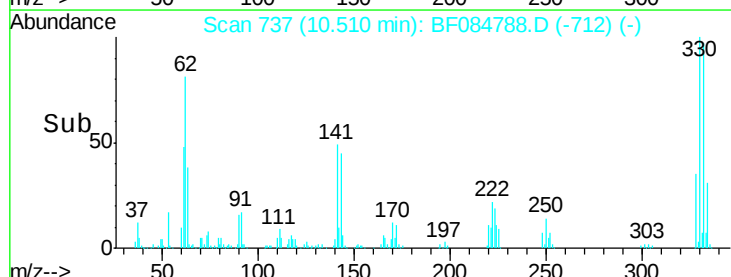
141 37.3 27.8 41.6

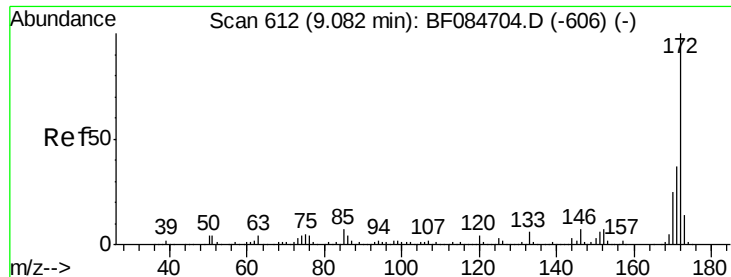


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

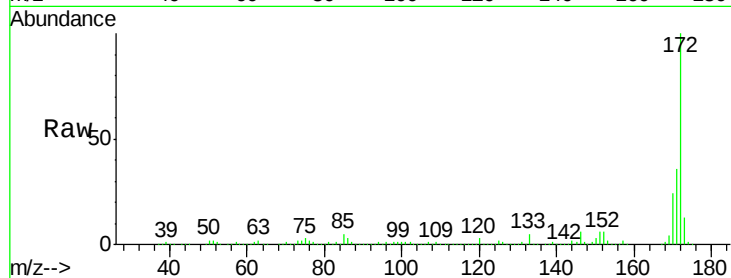




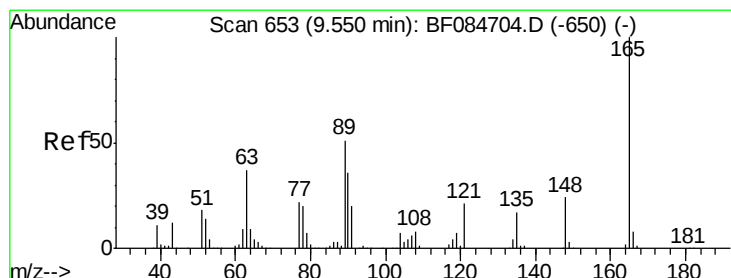
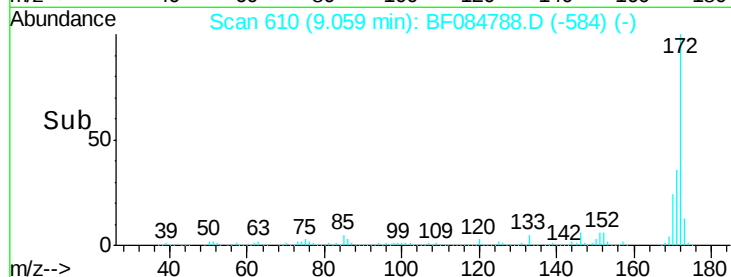
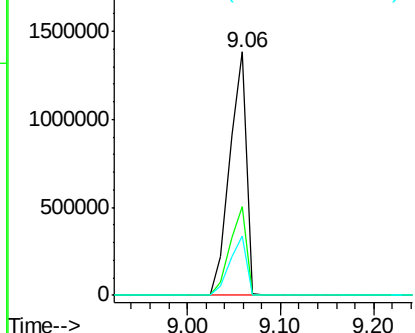
#44  
 2-Fluorobiphenyl  
 Concen: 80.04 ng  
 RT: 9.06 min Scan# 610  
 Delta R.T. -0.00 min  
 Lab File: BF084788.D  
 Acq: 3 Feb 2016 16:53

Instrument :  
 BNA\_F  
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Tgt Ion:172 Resp: 1741819  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 28.9 43.3  
 170 24.5 18.6 27.8

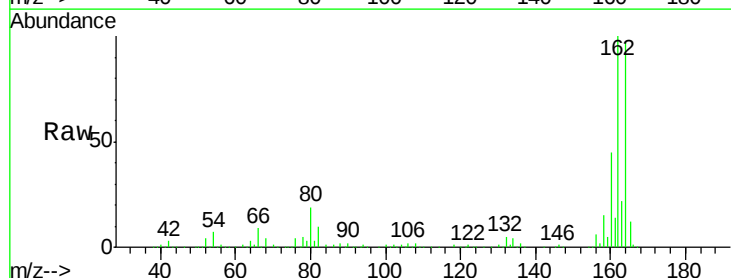


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

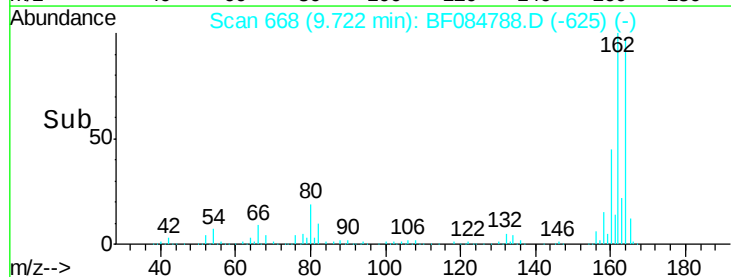
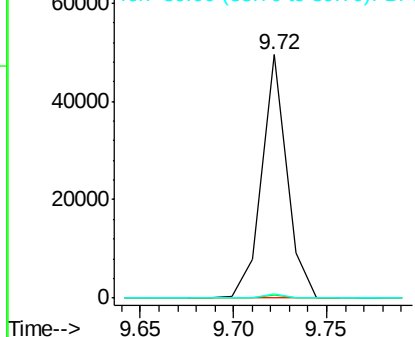


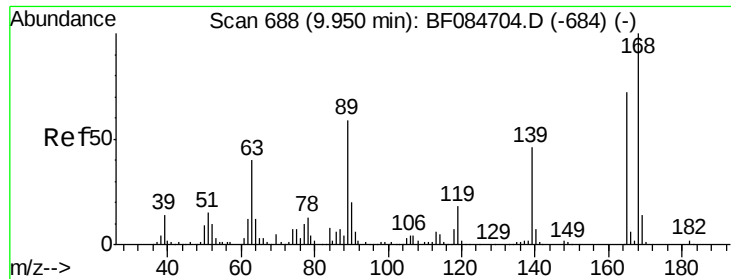
#50  
 2,6-Dinitrotoluene  
 Concen: 7.66 ng  
 RT: 9.72 min Scan# 668  
 Delta R.T. 0.19 min  
 Lab File: BF084788.D  
 Acq: 3 Feb 2016 16:53

Tgt Ion:165 Resp: 45768  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 28.8 43.2#  
 89 1.8 35.1 52.7#



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

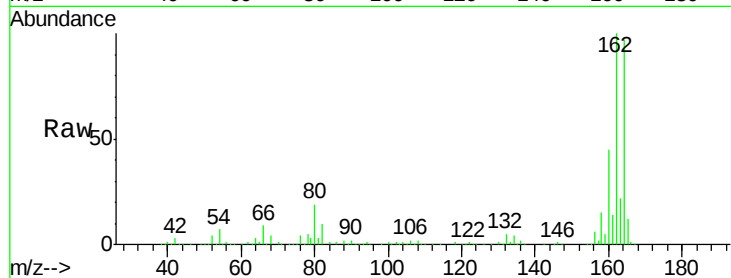




#56  
2,4-Dinitrotoluene  
Concen: 6.00 ng  
RT: 9.72 min Scan# 668  
Delta R.T. -0.21 min  
Lab File: BF084788.D  
Acq: 3 Feb 2016 16:53

Instrument :  
BNA\_F  
ClientSampleId :  
PB88159BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.7  | 55.1# |
| 89      | 1.8   | 61.9  | 92.9# |
| 182     | 0.0   | 2.0   | 3.0#  |

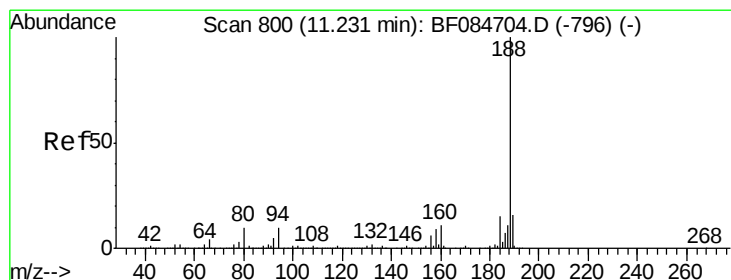
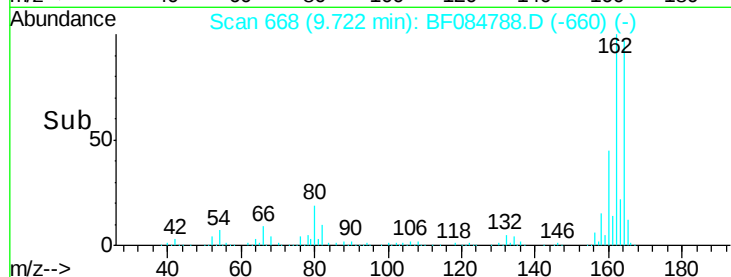
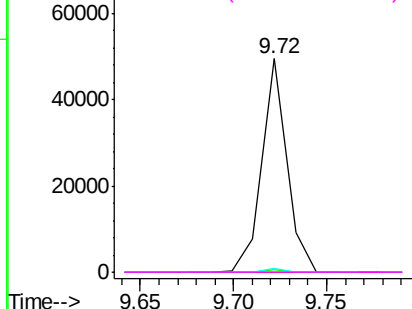


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

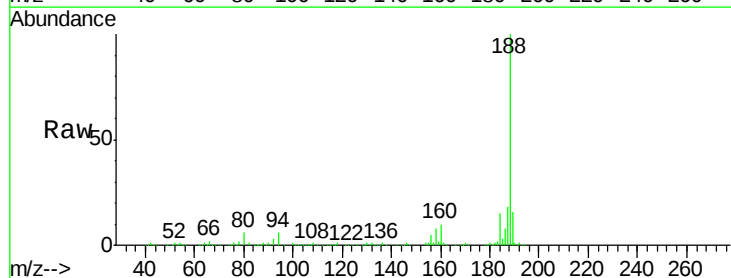
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.21 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BF084788.D  
Acq: 3 Feb 2016 16:53

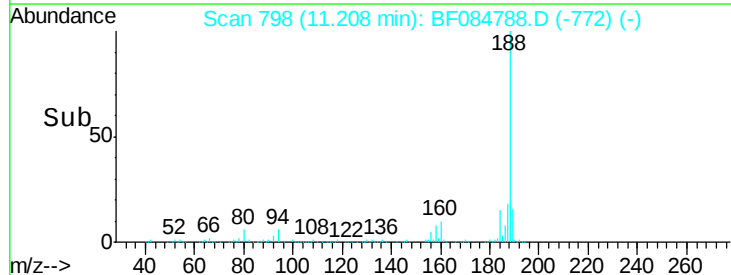
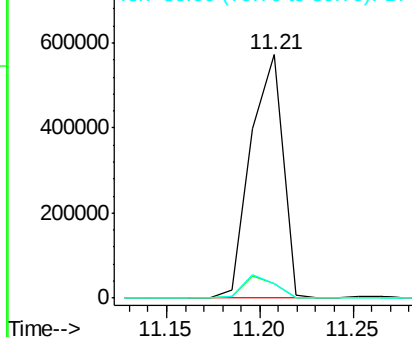
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.1   | 9.0   | 13.4# |
| 80      | 6.2   | 9.6   | 14.4# |

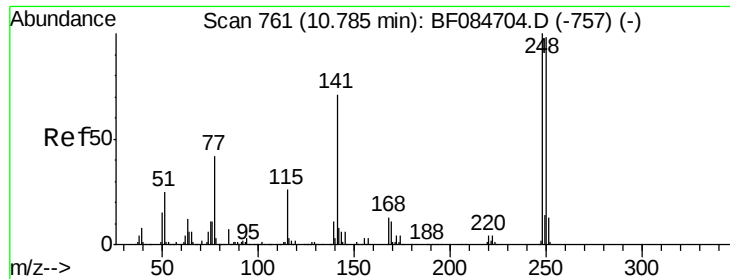


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

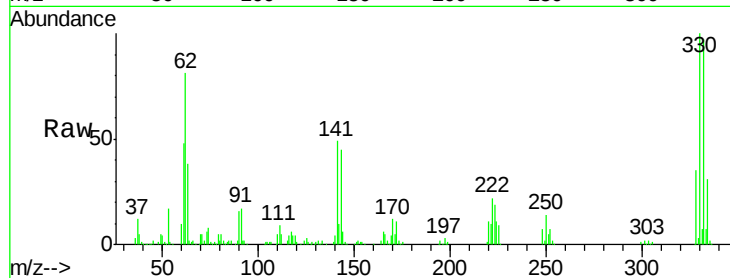




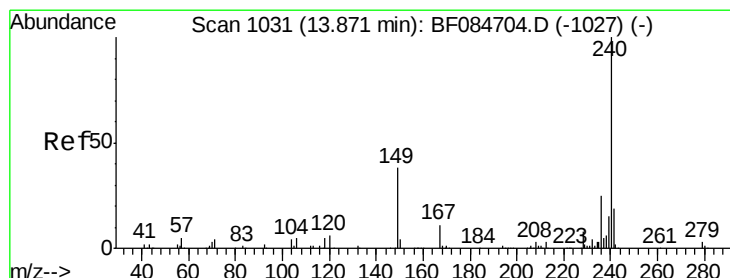
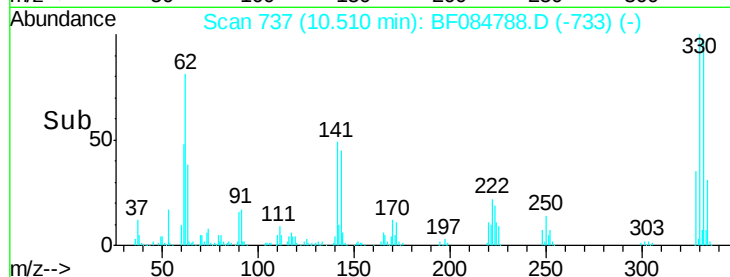
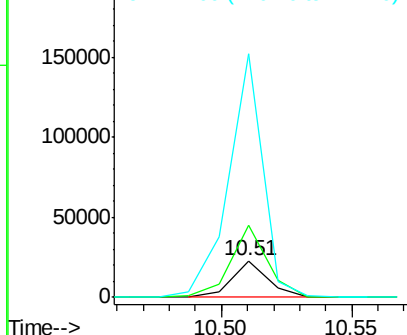
#66  
4-Bromophenyl-phenylether  
Concen: 2.90 ng  
RT: 10.51 min Scan# 737  
Delta R.T. -0.25 min  
Lab File: BF084788.D  
Acq: 3 Feb 2016 16:53

Instrument :  
BNA\_F  
ClientSampleId :  
PB88159BL

Tgt Ion:248 Resp: 21982  
Ion Ratio Lower Upper  
248 100  
250 197.1 78.4 117.6#  
141 670.9 44.0 66.0#

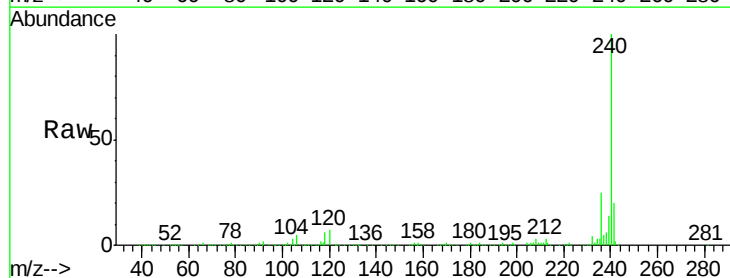


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

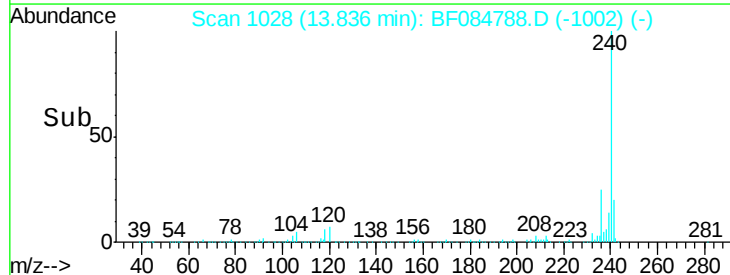
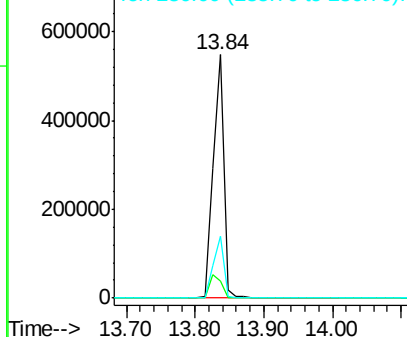


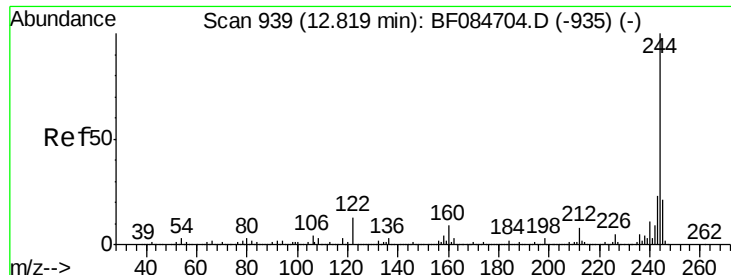
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.84 min Scan# 1028  
Delta R.T. -0.00 min  
Lab File: BF084788.D  
Acq: 3 Feb 2016 16:53

Tgt Ion:240 Resp: 600603  
Ion Ratio Lower Upper  
240 100  
120 6.9 9.5 14.3#  
236 25.4 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

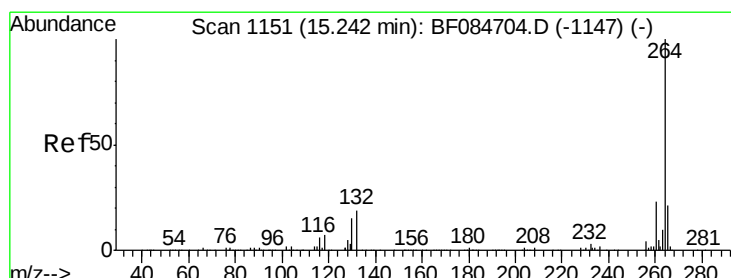
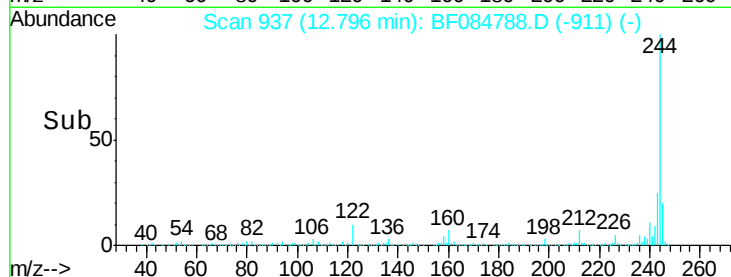
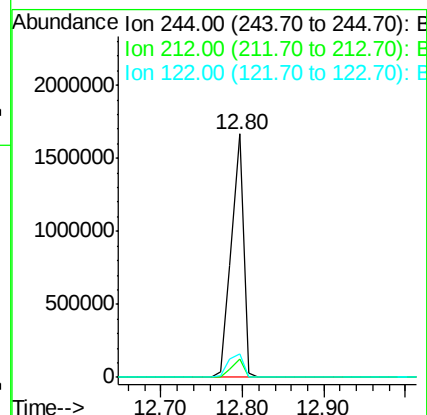
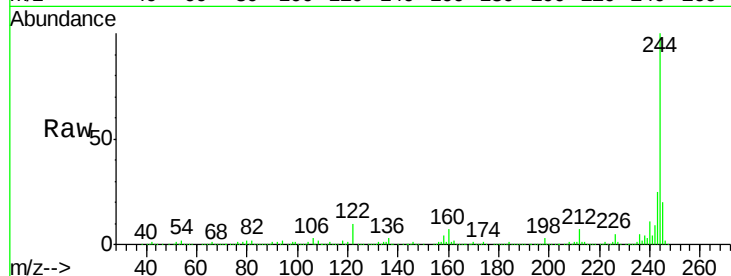




#78  
 Terphenyl-d14  
 Concen: 65.07 ng  
 RT: 12.80 min Scan# 937  
 Delta R.T. -0.00 min  
 Lab File: BF084788.D  
 Acq: 3 Feb 2016 16:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB88159BL

Tgt Ion:244 Resp: 1724718  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.7 8.5  
 122 9.5 7.4 11.0



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.21 min Scan# 1148  
 Delta R.T. -0.00 min  
 Lab File: BF084788.D  
 Acq: 3 Feb 2016 16:53

Tgt Ion:264 Resp: 434669  
 Ion Ratio Lower Upper  
 264 100  
 260 23.4 19.4 29.2  
 265 21.4 17.8 26.6

