

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080615\  
 Data File : BF080907.D  
 Acq On : 7 Aug 2015 1:40  
 Operator : TP/UM  
 Sample : G3196-05  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 07 05:08:53 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF080615.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 07 03:17:12 2015  
 Response via : Initial Calibration

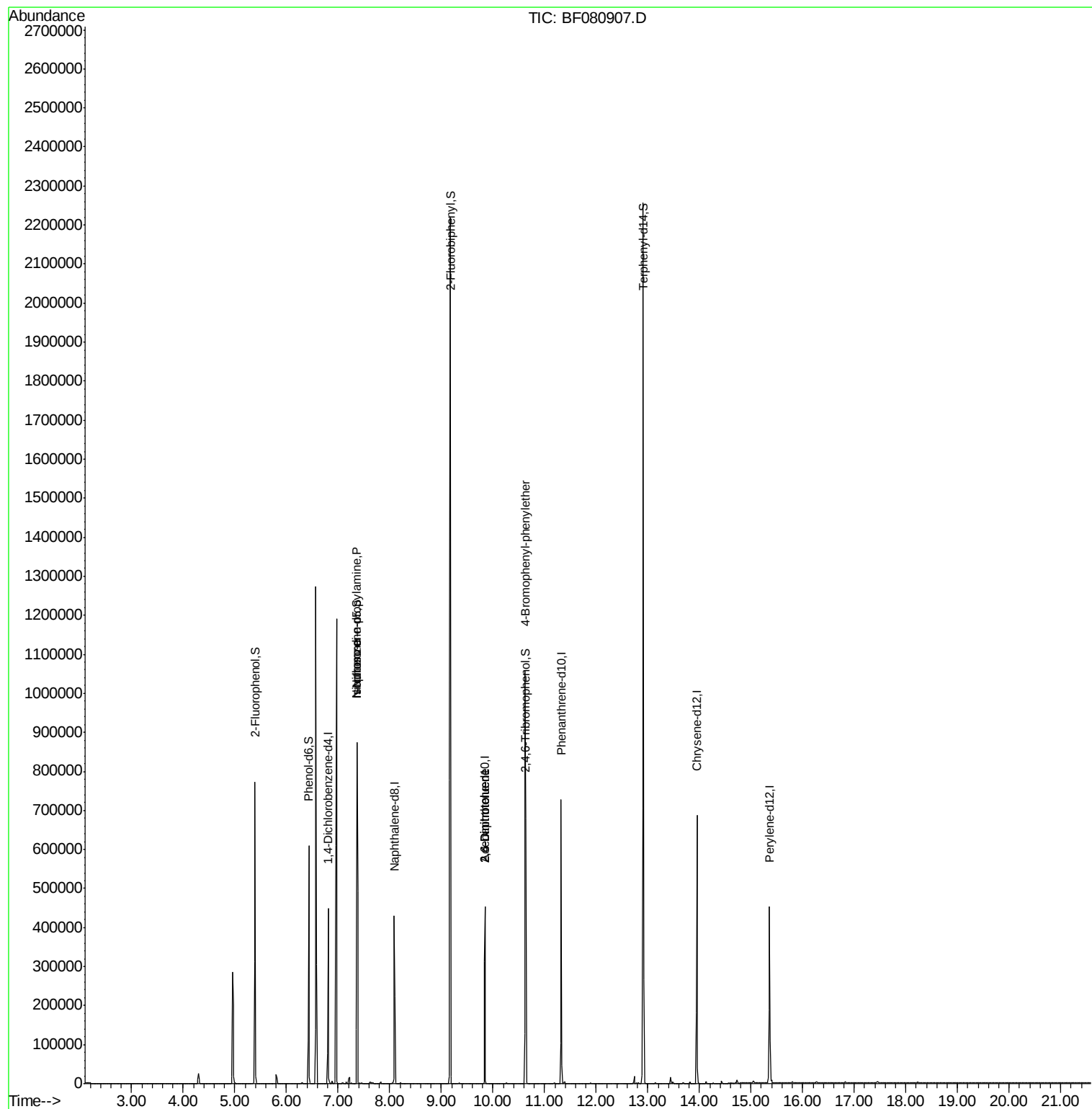
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 59462    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 215950   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.85  | 164  | 111603   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 243345   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.95 | 240  | 229034   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.36 | 264  | 200130   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.39  | 112  | 198610   | 53.25  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.43  | 99   | 177574   | 34.58  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 347466   | 75.80  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 165563   | 138.11 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 682011   | 87.10  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.91 | 244  | 729800   | 67.18  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 45541    | 12.46  | ng    | # 77     |
| 25) Isophorone                 | 7.37  | 82   | 315933   | 35.96  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 14101    | 7.42   | ng    | # 5      |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 14101    | 5.52   | ng    | # 6      |
| 66) 4-Bromophenyl-phenylether  | 10.62 | 248  | 10563    | 3.99   | ng    | # 1      |

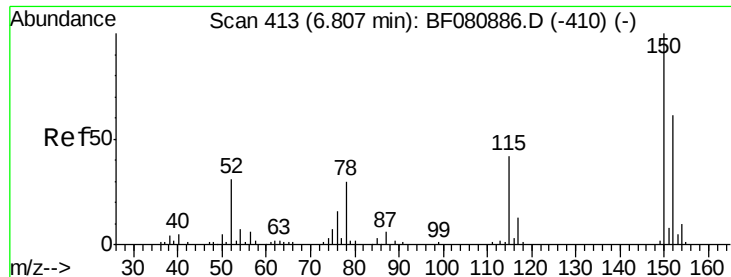
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 22 Sample Multiplier: 1

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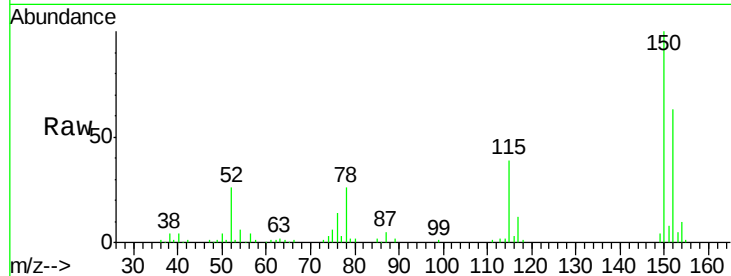


#1

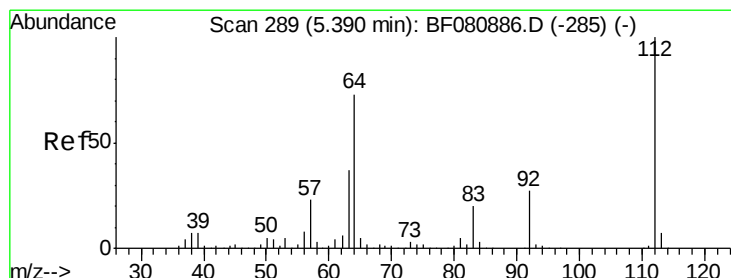
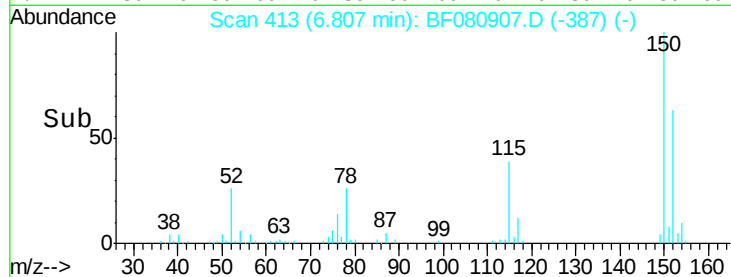
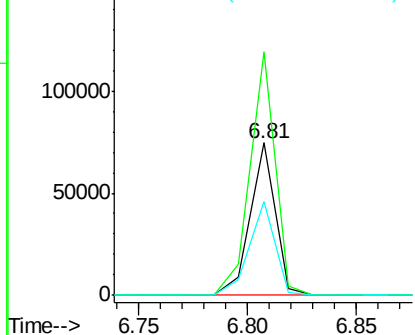
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.81 min Scan# 413  
Delta R.T. -0.00 min  
Lab File: BF080907.D  
Acq: 7 Aug 2015 1:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 59462  
Ion Ratio Lower Upper  
152 100  
150 159.7 132.2 198.2  
115 61.8 54.9 82.3



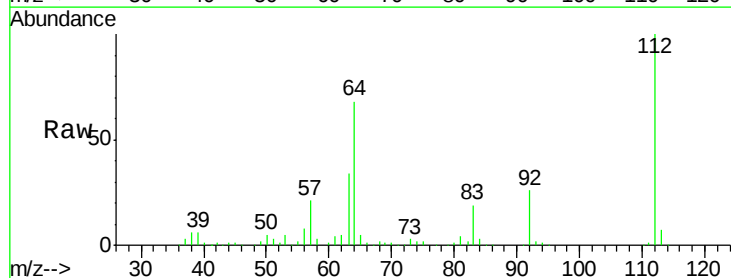
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



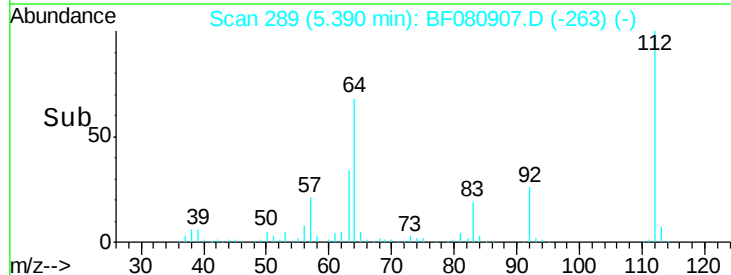
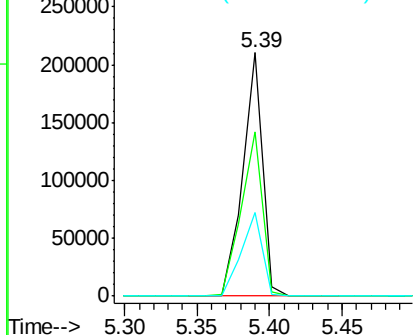
#5

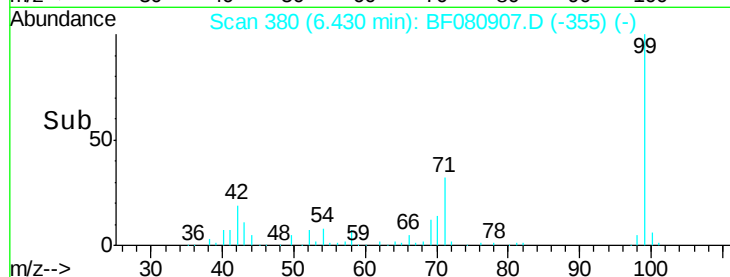
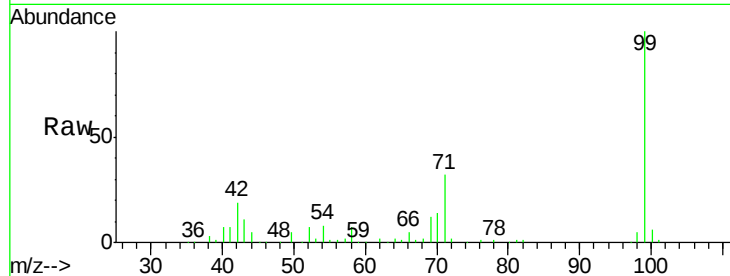
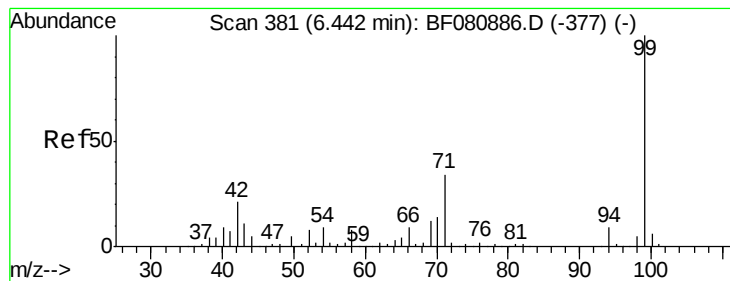
2-Fluorophenol  
Concen: 53.25 ng  
RT: 5.39 min Scan# 289  
Delta R.T. -0.00 min  
Lab File: BF080907.D  
Acq: 7 Aug 2015 1:40

Tgt Ion:112 Resp: 198610  
Ion Ratio Lower Upper  
112 100  
64 67.6 58.0 87.0  
63 34.4 29.8 44.8



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: 34.58 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

Instrument :

BNA\_F

ClientSampleId :

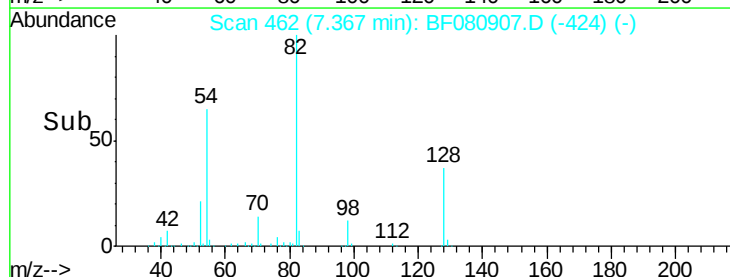
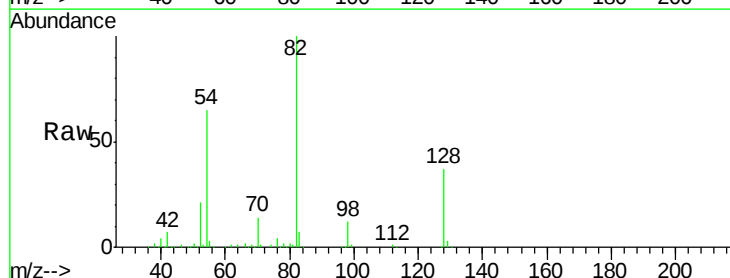
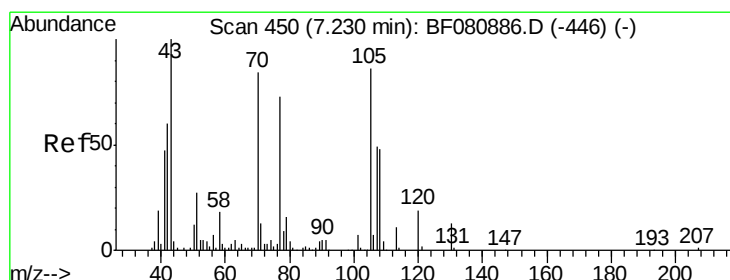
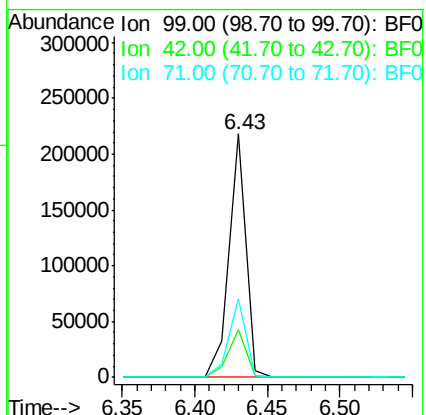
Tot Ion: 99 Resp: 177574

Ion Ratio Lower Upper

99 100

42 19.4 16.8 25.2

71 32.4 27.4 41.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.46 ng

RT: 7.37 min Scan# 462

Delta R.T. 0.14 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

Tgt Ion: 70 Resp: 45541

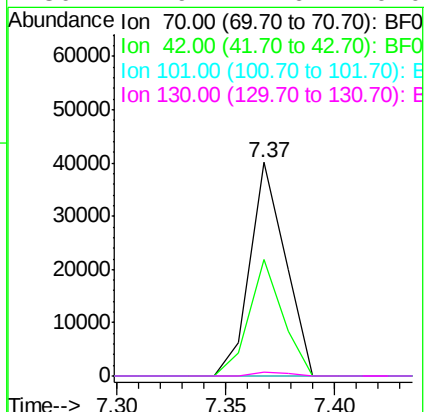
Ion Ratio Lower Upper

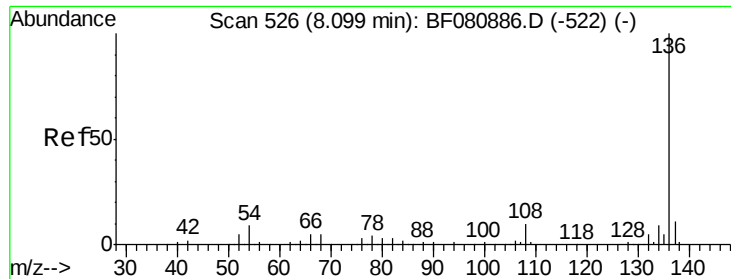
70 100

42 54.4 57.2 85.8#

101 0.0 6.6 9.8#

130 1.9 12.6 19.0#

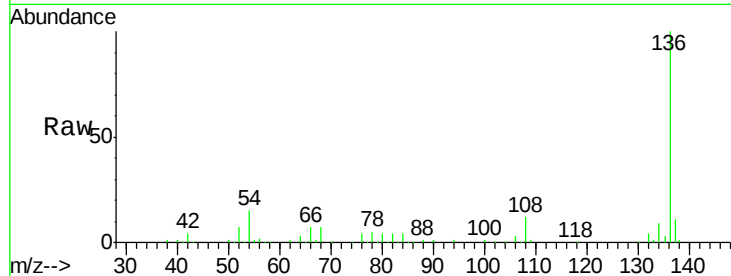




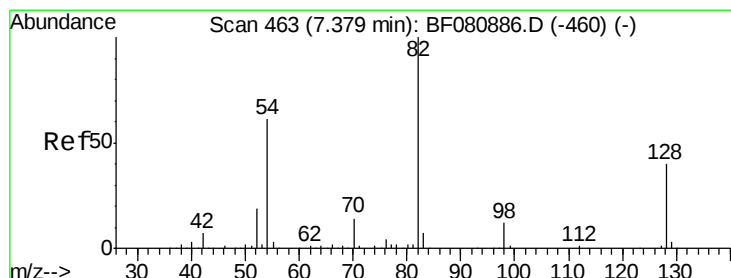
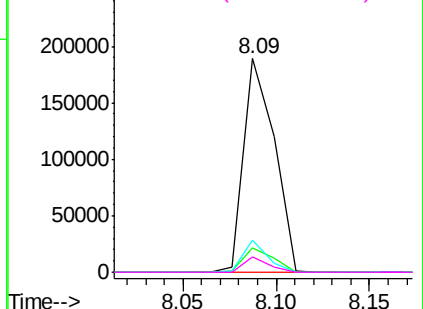
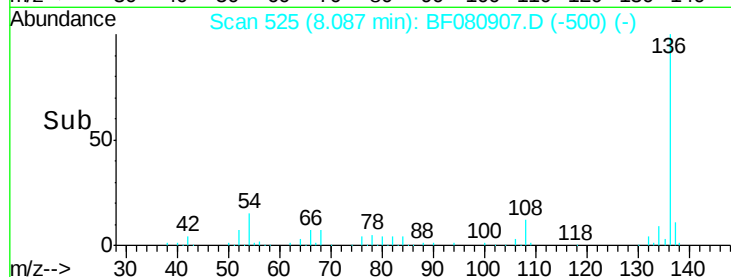
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.09 min Scan# 525  
Delta R.T. -0.01 min  
Lab File: BF080907.D  
Acq: 7 Aug 2015 1:40

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:136 | Resp: | 215950    |
| Ion Ratio   | Lower | Upper     |
| 136         | 100   |           |
| 137         | 11.3  | 8.6 12.8  |
| 54          | 14.9  | 7.5 11.3# |
| 68          | 7.5   | 4.2 6.2#  |

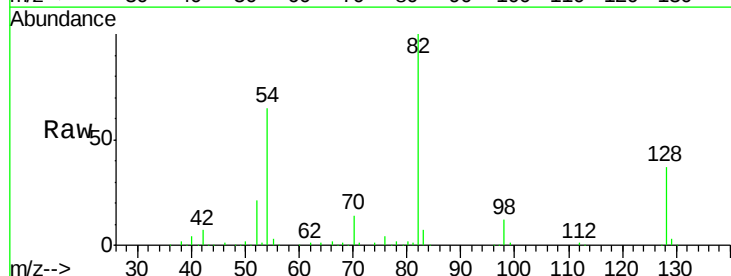


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

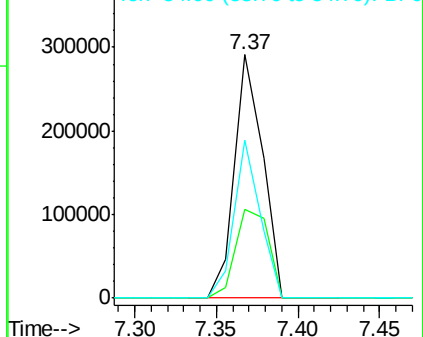
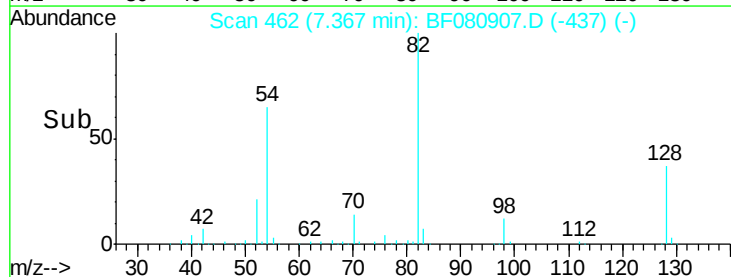


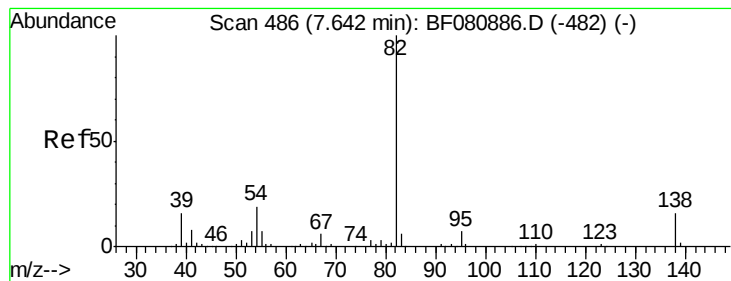
#23  
Nitrobenzene-d5  
Concen: 75.80 ng  
RT: 7.37 min Scan# 462  
Delta R.T. -0.01 min  
Lab File: BF080907.D  
Acq: 7 Aug 2015 1:40

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 347466    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 36.5  | 31.8 47.6 |
| 54          | 64.9  | 48.6 72.8 |



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





#25

Isophorone

Concen: 35.96 ng

RT: 7.37 min Scan# 462

Delta R.T. -0.27 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

Instrument :

BNA\_F

ClientSampled :

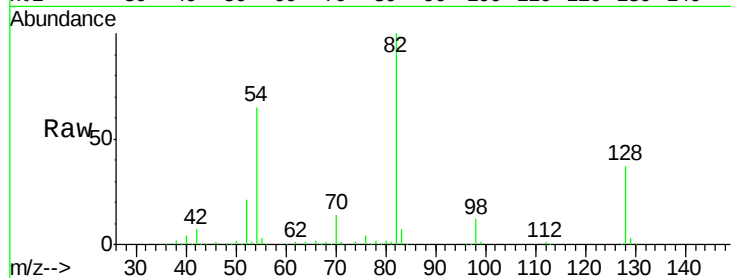
Tot Ion: 82 Resp: 315933

Ion Ratio Lower Upper

82 100

95 0.0 5.7 8.5#

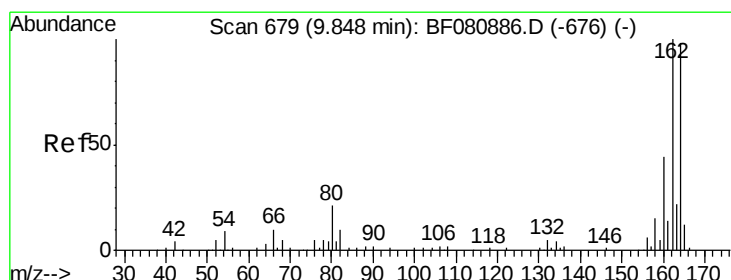
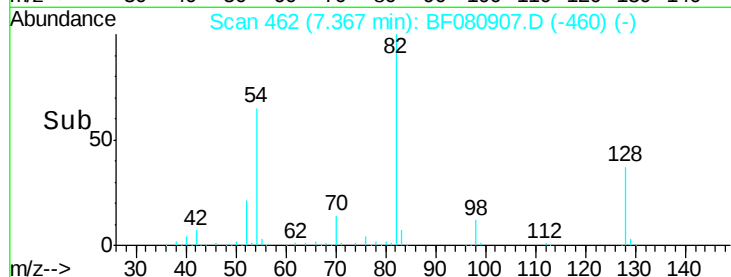
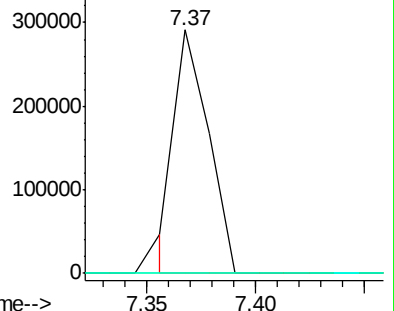
138 0.0 13.0 19.6#



Abundance Ion 82.00 (81.70 to 82.70): BF080907.D (-460) (-)

Ion 95.00 (94.70 to 95.70): BF080907.D (-460) (-)

Ion 138.00 (137.70 to 138.70): BF080907.D (-460) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 679

Delta R.T. -0.00 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

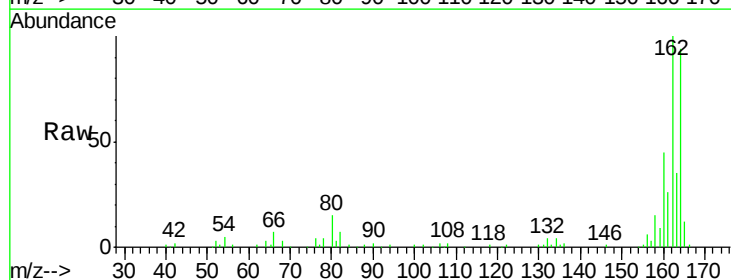
Tgt Ion: 164 Resp: 111603

Ion Ratio Lower Upper

164 100

162 106.3 81.5 122.3

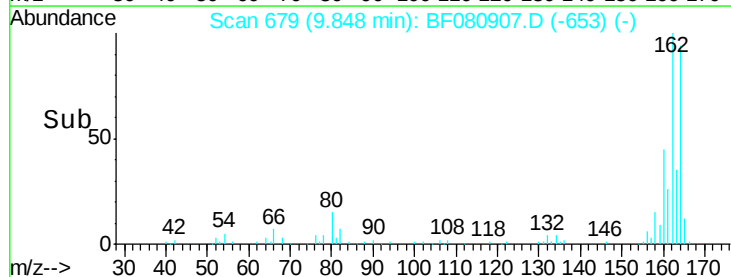
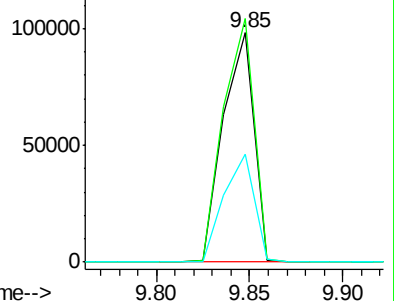
160 47.4 35.9 53.9

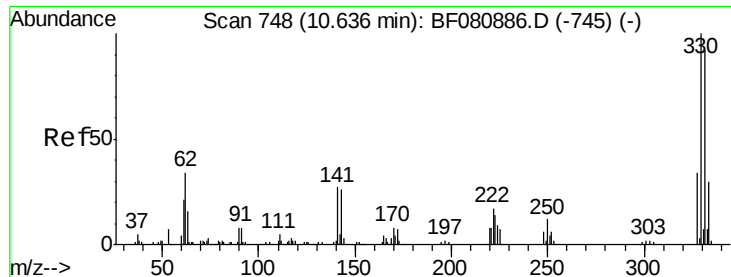


Abundance Ion 164.00 (163.70 to 164.70): BF080907.D (-653) (-)

Ion 162.00 (161.70 to 162.70): BF080907.D (-653) (-)

Ion 160.00 (159.70 to 160.70): BF080907.D (-653) (-)

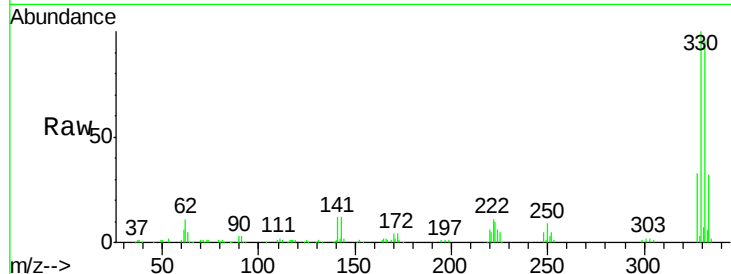




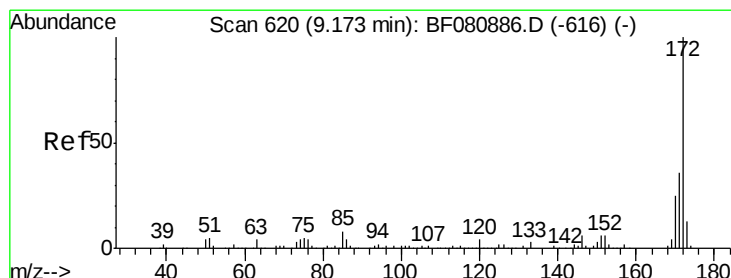
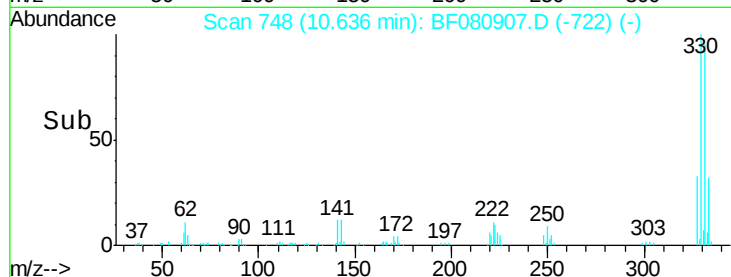
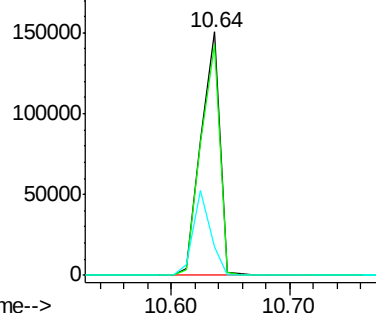
#41  
 2,4,6-Tribromophenol  
 Concen: 138.11 ng  
 RT: 10.64 min Scan# 748  
 Delta R.T. -0.00 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 74.1  | 111.1 |
| 141     | 32.2  | 30.1  | 45.1  |

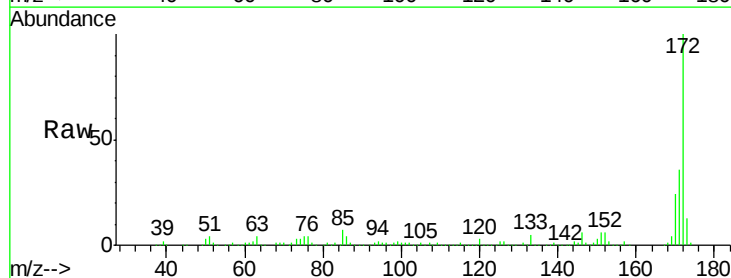


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

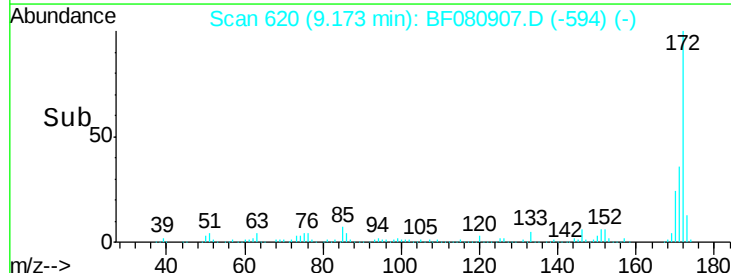
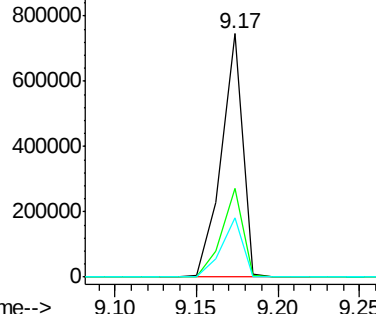


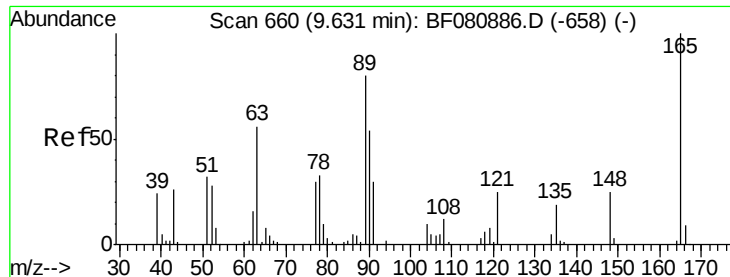
#44  
 2-Fluorobiphenyl  
 Concen: 87.10 ng  
 RT: 9.17 min Scan# 620  
 Delta R.T. -0.00 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.0  | 43.4  |
| 170     | 24.3  | 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

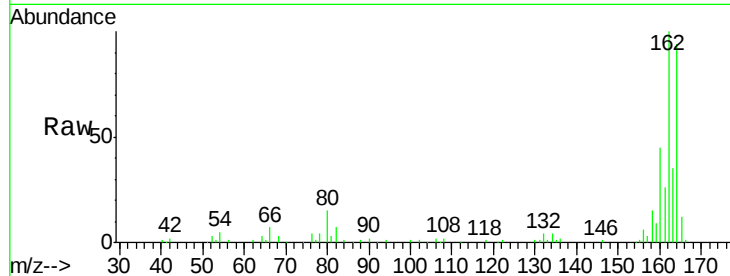




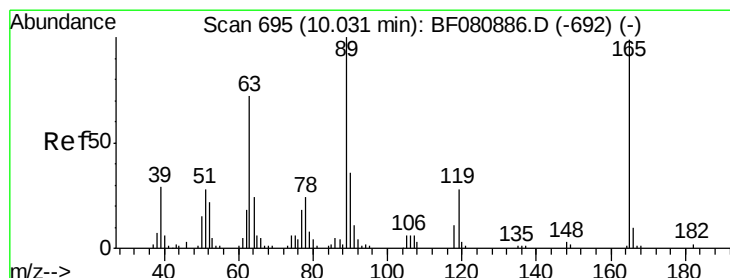
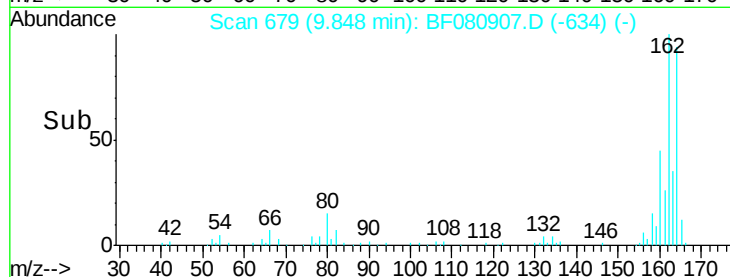
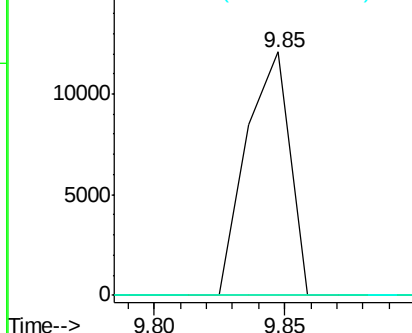
#50  
 2,6-Dinitrotoluene  
 Concen: 7.42 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. 0.22 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 14101  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 77.6 116.4#  
 89 0.0 63.7 95.5#

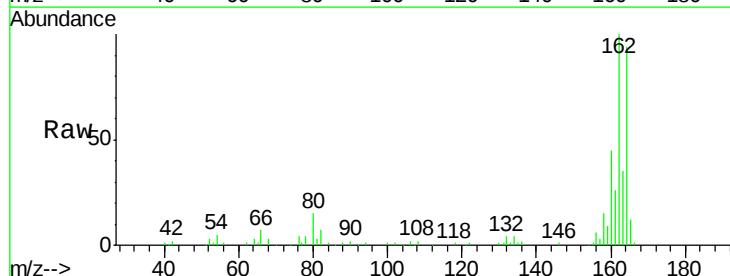


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

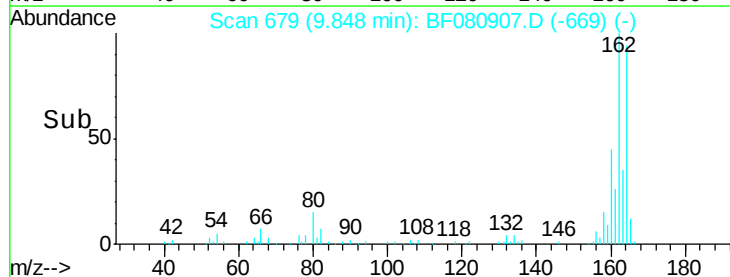
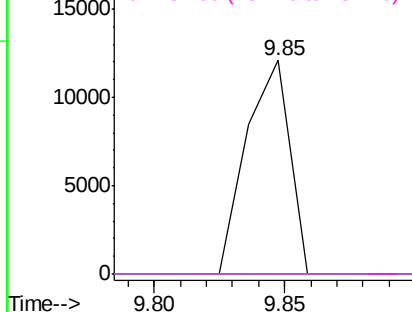


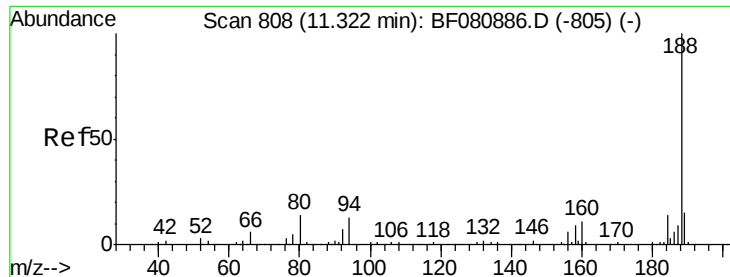
#56  
 2,4-Dinitrotoluene  
 Concen: 5.52 ng  
 RT: 9.85 min Scan# 679  
 Delta R.T. -0.18 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

Tgt Ion:165 Resp: 14101  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 58.6 87.8#  
 89 0.0 80.7 121.1#  
 182 0.0 1.8 2.8#



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

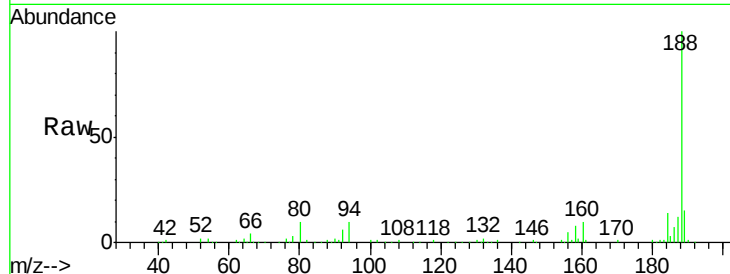




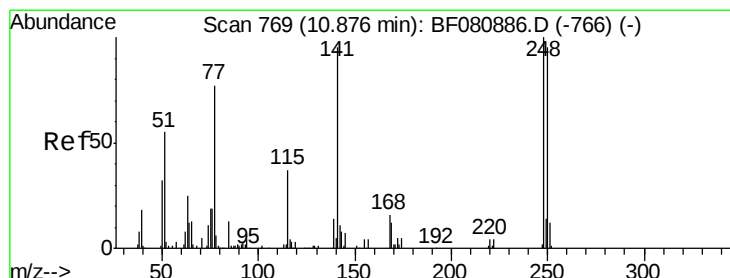
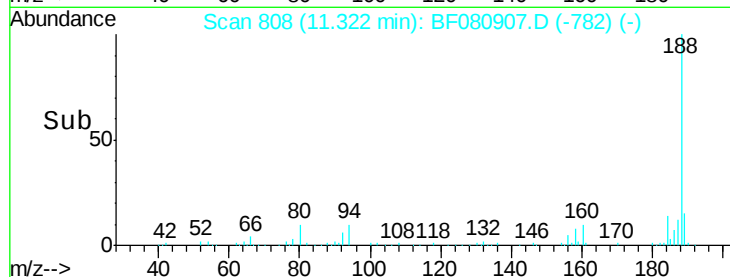
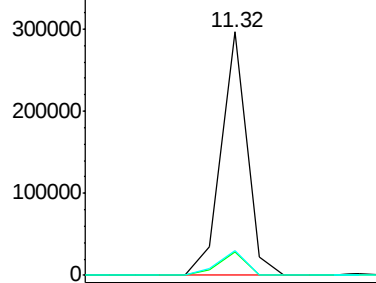
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.32 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 10.2  | 15.2# |
| 80      | 10.4  | 11.4  | 17.2# |

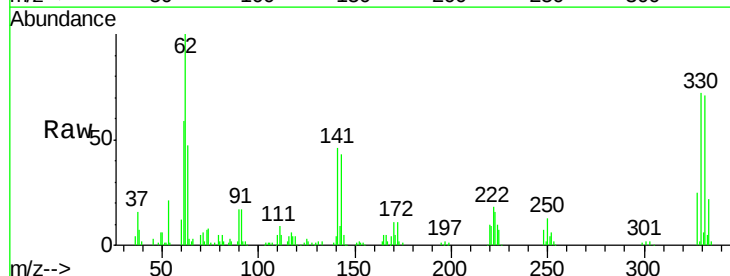


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

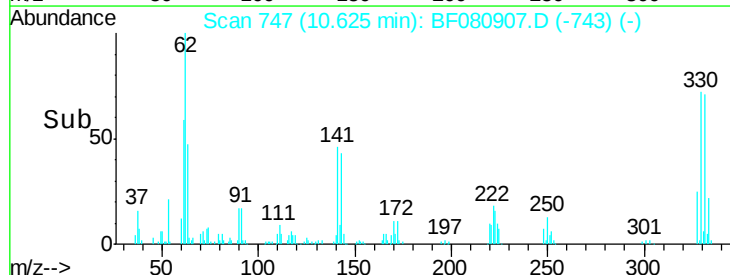
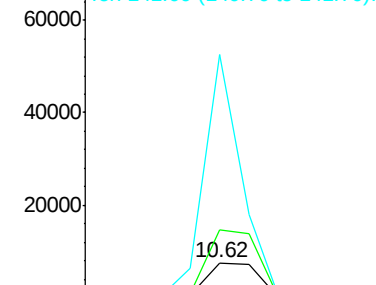


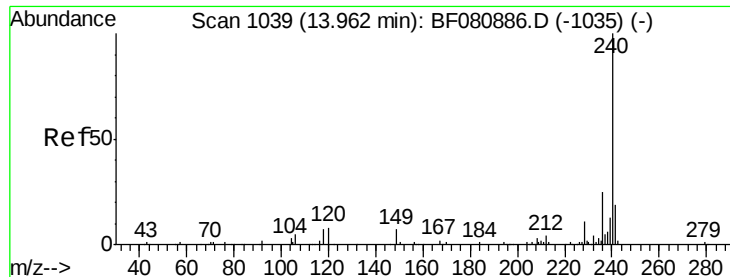
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.99 ng  
 RT: 10.62 min Scan# 747  
 Delta R.T. -0.25 min  
 Lab File: BF080907.D  
 Acq: 7 Aug 2015 1:40

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 193.9 | 75.9  | 113.9# |
| 141     | 691.2 | 75.8  | 113.6# |



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: 13.95 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

Instrument :

BNA\_F

ClientSampleId :

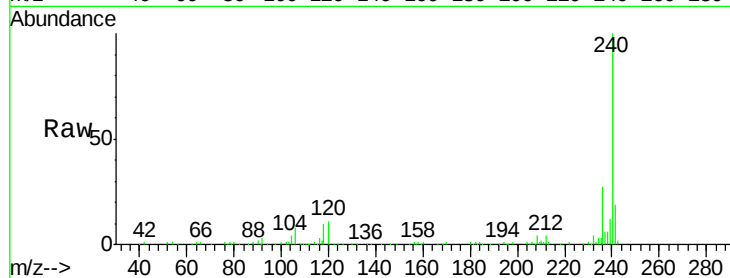
Tot Ion:240 Resp: 229034

Ion Ratio Lower Upper

240 100

120 11.0 6.4 9.6#

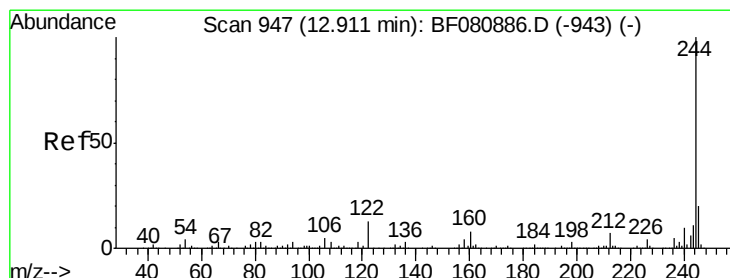
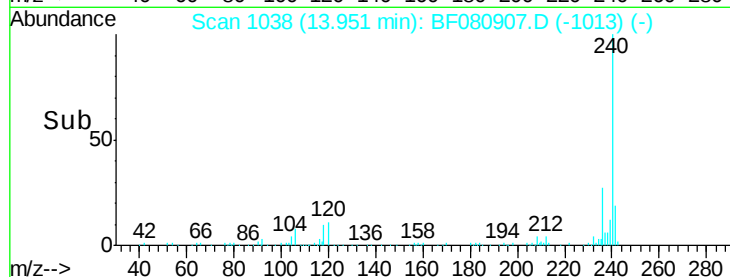
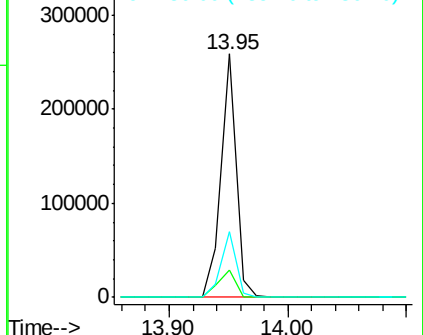
236 26.8 20.2 30.4



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: 67.18 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.00 min

Lab File: BF080907.D

Acq: 7 Aug 2015 1:40

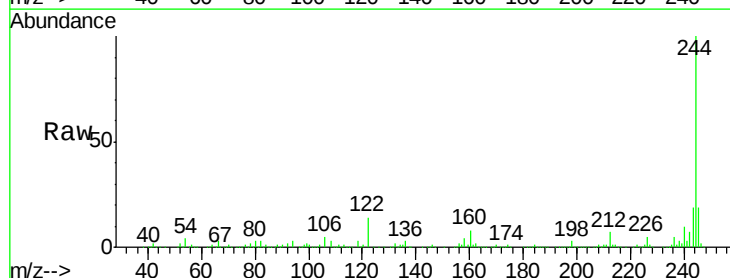
Tgt Ion:244 Resp: 729800

Ion Ratio Lower Upper

244 100

212 7.4 5.9 8.9

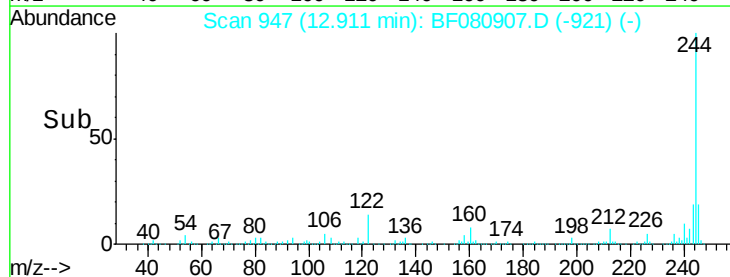
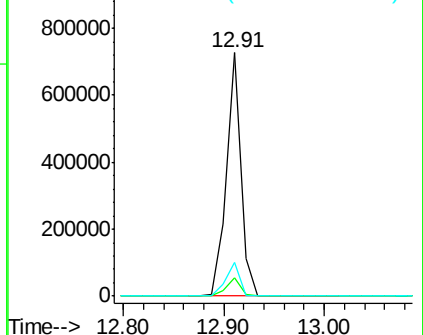
122 13.9 10.6 16.0

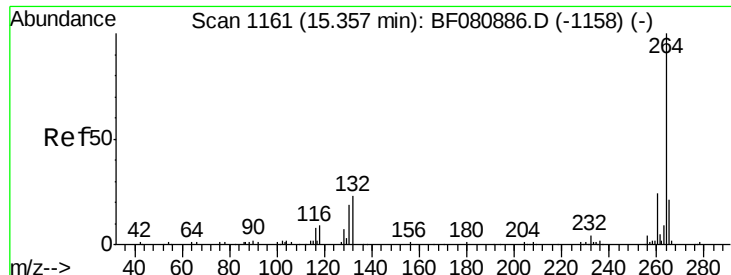


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

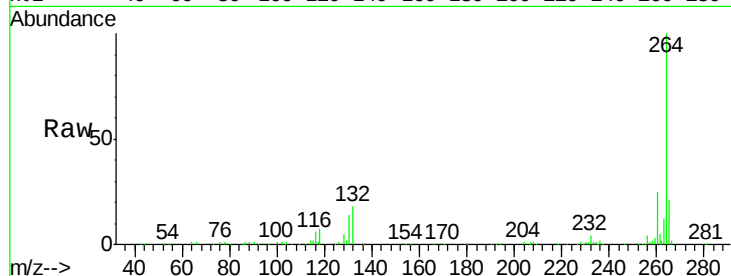




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.36 min Scan# 1161  
Delta R.T. -0.00 min  
Lab File: BF080907.D  
Acq: 7 Aug 2015 1:40

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 19.0  | 28.4  |
| 265     | 21.3  | 17.0  | 25.6  |



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

