

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF061516\  
 Data File : BF088052.D  
 Acq On : 16 Jun 2016 00:02  
 Operator : UM/SJ  
 Sample : PB91188TB  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91188TB

Quant Time: Jun 16 03:11:01 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 13 14:10:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.74  | 152  | 115109   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.03  | 136  | 447643   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.78  | 164  | 196101   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.26 | 188  | 293910   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 13.89 | 240  | 227630   | 20.00 | ng    | -0.07    |
| 86) Perylene-d12          | 15.29 | 264  | 224831   | 20.00 | ng    | -0.07    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 787527   | 116.96 | ng    | -0.03    |
| 7) Phenol-d6                | 6.39  | 99   | 850780   | 104.26 | ng    | -0.05    |
| 23) Nitrobenzene-d5         | 7.31  | 82   | 594292   | 77.52  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.57 | 330  | 169452   | 81.84  | ng    | -0.06    |
| 44) 2-Fluorobiphenyl        | 9.11  | 172  | 903103   | 71.46  | ng    | -0.06    |
| 78) Terphenyl-d14           | 12.85 | 244  | 632585   | 63.24  | ng    | -0.06    |

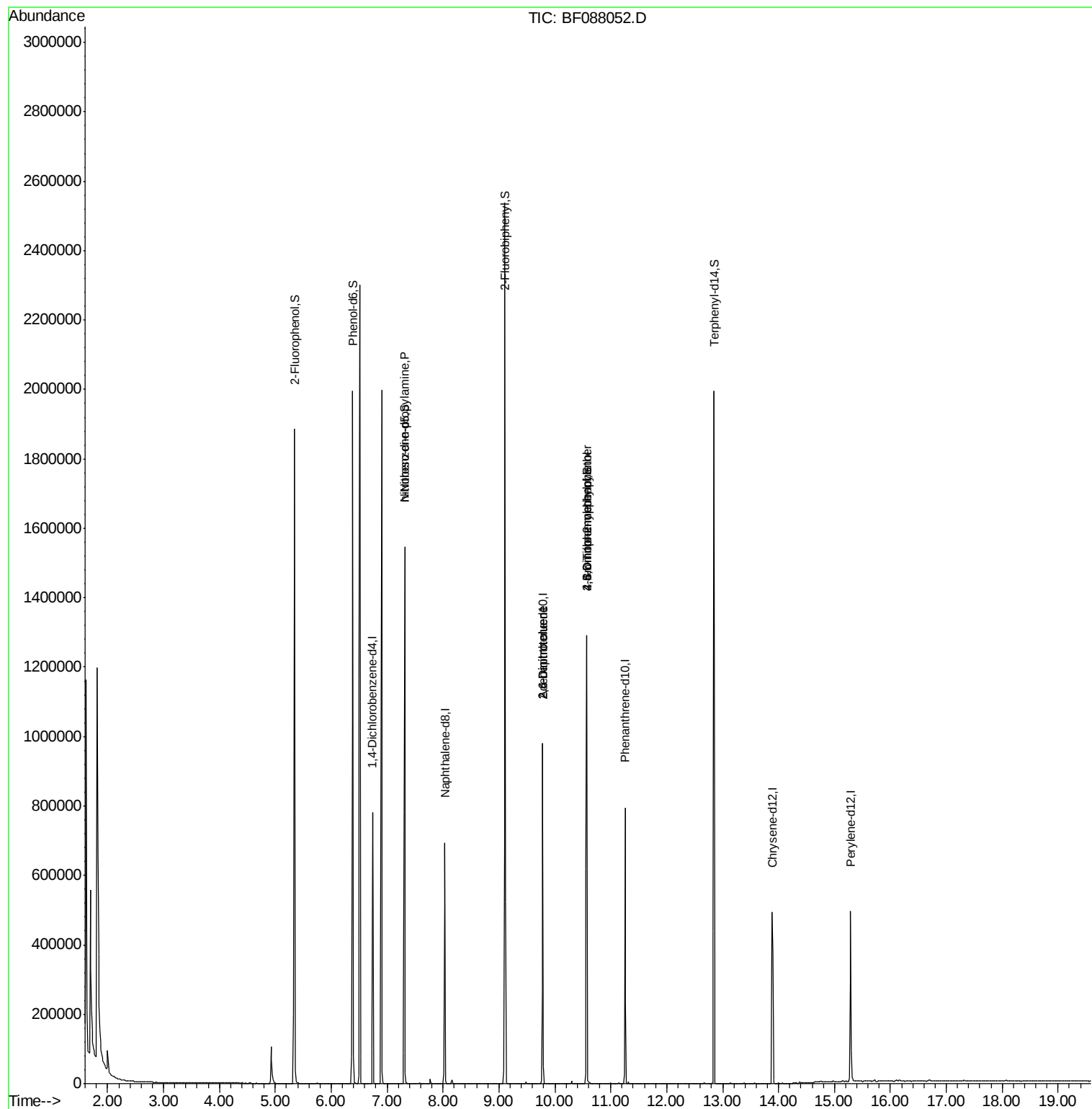
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 10) Phenol                     | 6.51  | 94   | 1381     | Below Cal | #     | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 77973    | 14.94     | ng    | 69     |
| 45) 1,1'-Biphenyl              | 9.11  | 154  | 1715     | Below Cal | #     | 1      |
| 50) 2,6-Dinitrotoluene         | 9.78  | 165  | 25041    | 7.70      | ng    | 39     |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 25042    | 5.99      | ng    | 38     |
| 57) Fluorene                   | 10.57 | 166  | 9212     | Below Cal | #     | 89     |
| 64) 4,6-Dinitro-2-methylphenol | 10.57 | 198  | 313      | 2.33      | ng    | 9      |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 11556    | 3.66      | ng    | 1      |

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.74 min Scan# 451

Delta R.T. -0.05 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

Instrument :

BNA\_F

ClientSampleId :

PB91188TB

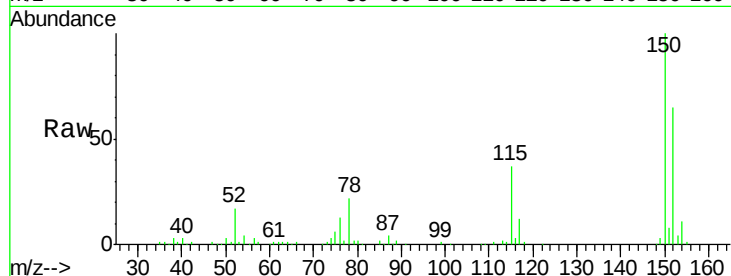
Tgt Ion:152 Resp: 115109

Ion Ratio Lower Upper

152 100

150 153.9 123.8 185.6

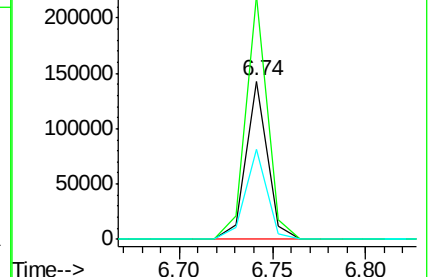
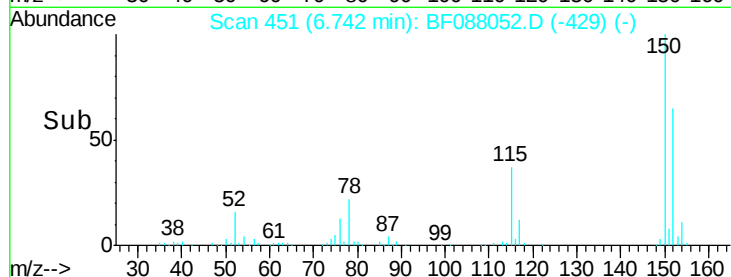
115 57.2 39.6 59.4



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: 116.96 ng

RT: 5.35 min Scan# 329

Delta R.T. -0.03 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

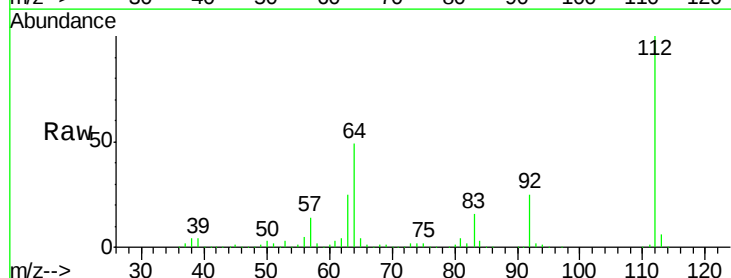
Tgt Ion:112 Resp: 787527

Ion Ratio Lower Upper

112 100

64 48.9 42.2 63.2

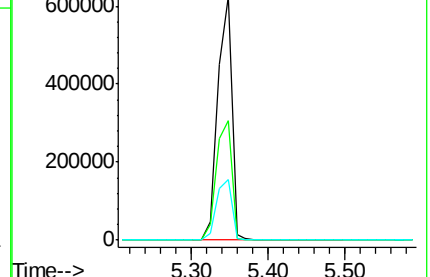
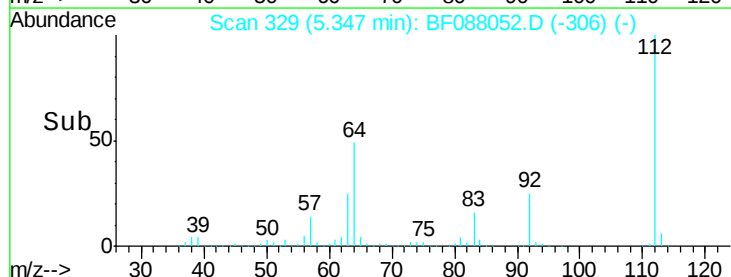
63 24.9 21.8 32.8



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: 104.26 ng

RT: 6.39 min Scan# 420

Delta R.T. -0.05 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

Instrument :

BNA\_F

ClientSampleId :

PB91188TB

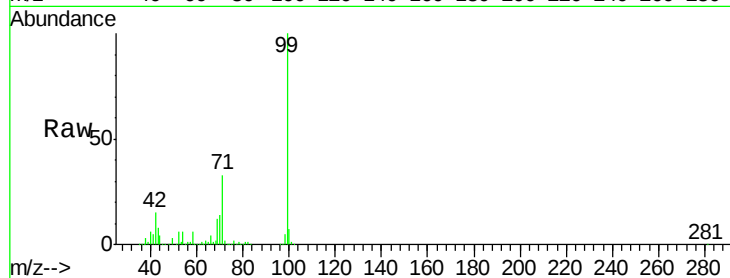
Tgt Ion: 99 Resp: 850780

Ion Ratio Lower Upper

99 100

42 15.4 12.2 18.2

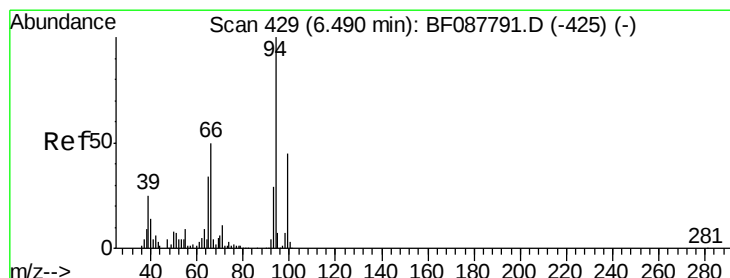
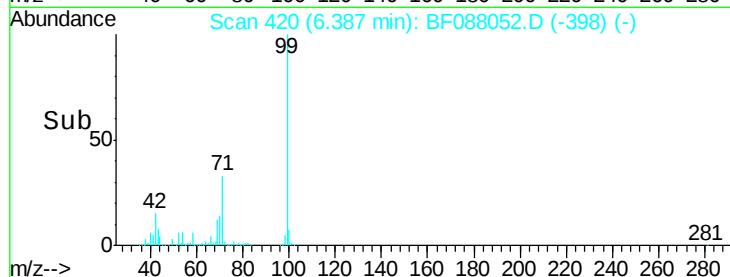
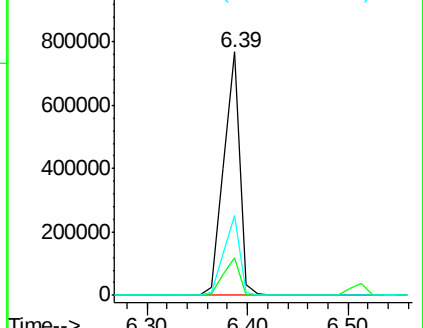
71 32.9 23.4 35.0



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



#10

Phenol

Concen: Below Cal

RT: 6.51 min Scan# 431

Delta R.T. 0.07 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

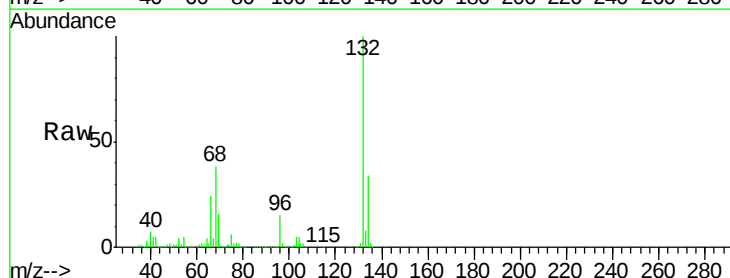
Tgt Ion: 94 Resp: 1381

Ion Ratio Lower Upper

94 100

65 1060.9 5.9 45.9#

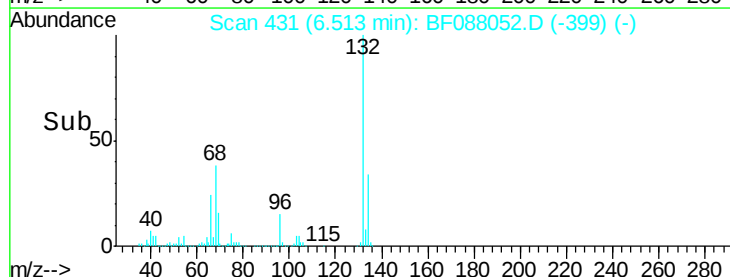
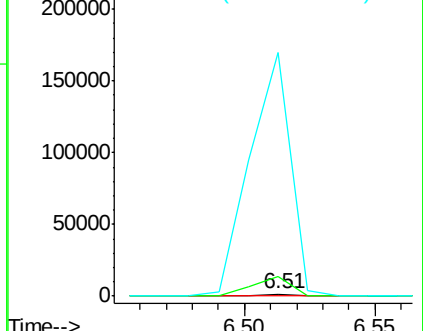
66 12921.8 14.0 54.0#

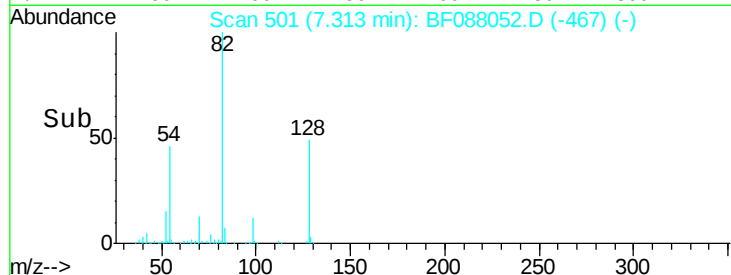
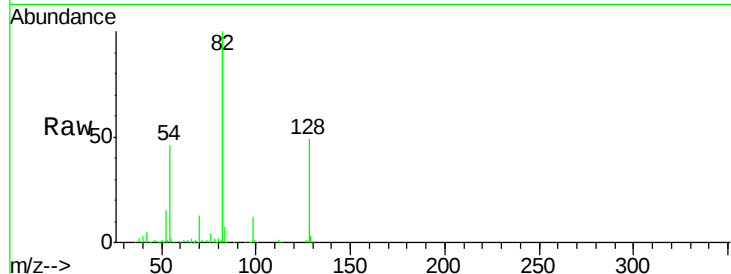


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

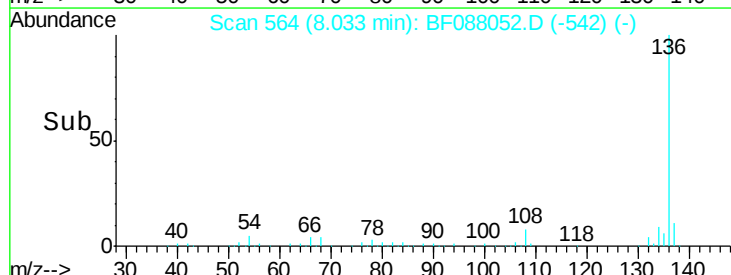
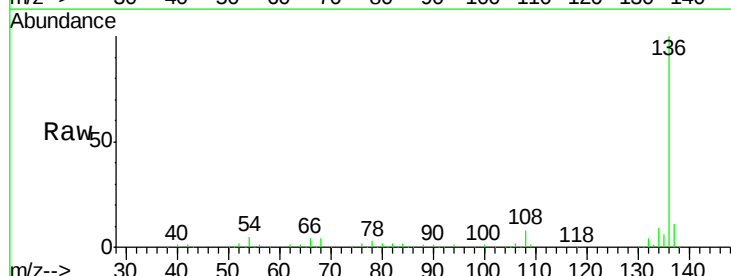
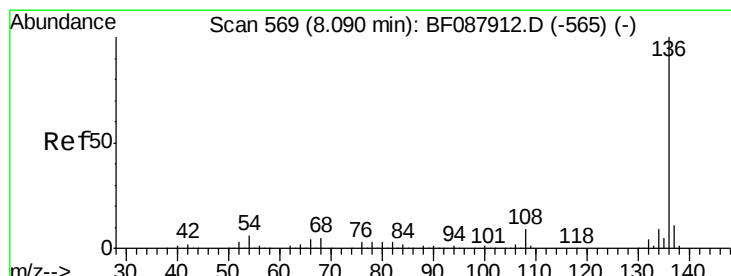
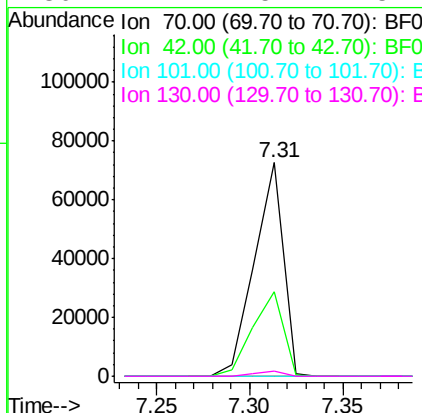




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.94 ng  
RT: 7.31 min Scan# 501  
Delta R.T. 0.09 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

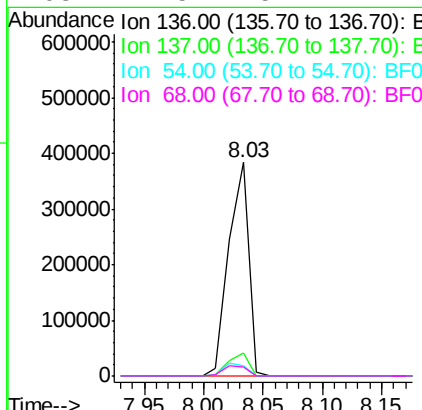
Instrument :  
BNA\_F  
ClientSampled :  
PB91188TB

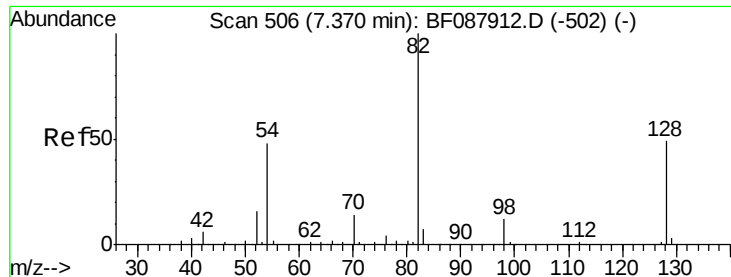
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 77973 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 39.6  | 49.6  | 74.4# |
| 101      | 0.0   | 7.1   | 10.7# |
| 130      | 2.2   | 15.4  | 23.2# |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 564  
Delta R.T. -0.05 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 447643 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 9.1   | 13.7   |
| 54       | 4.9   | 6.6   | 10.0#  |
| 68       | 4.5   | 5.1   | 7.7#   |

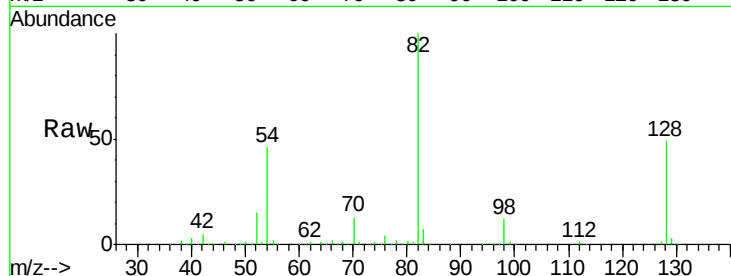




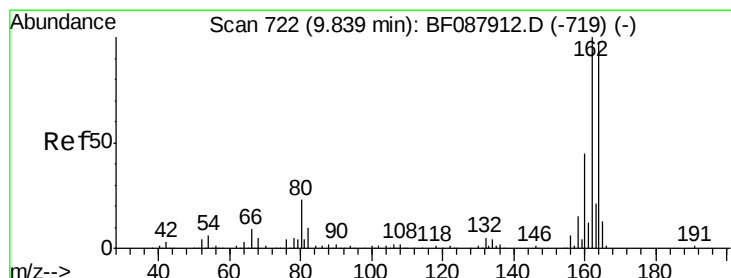
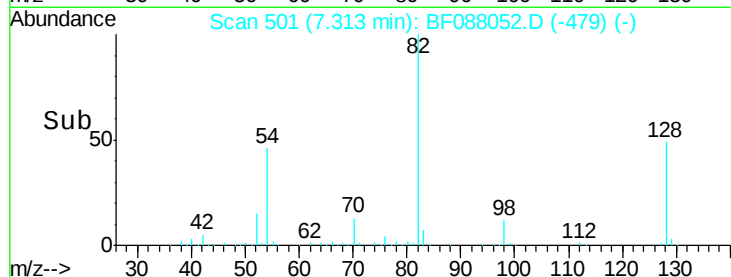
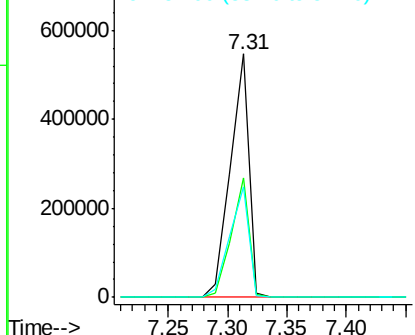
#23  
 Nitrobenzene-d5  
 Concen: 77.52 ng  
 RT: 7.31 min Scan# 501  
 Delta R.T. -0.05 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91188TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.0  | 35.9  | 53.9  |
| 54      | 45.5  | 40.9  | 61.3  |

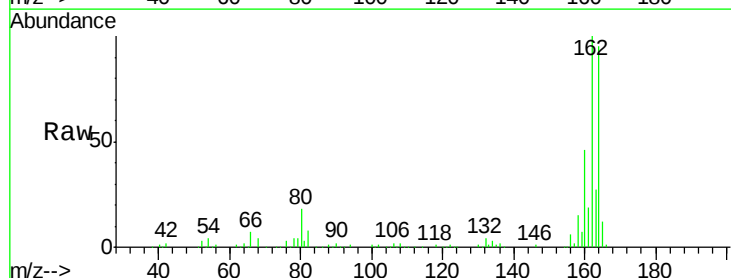


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

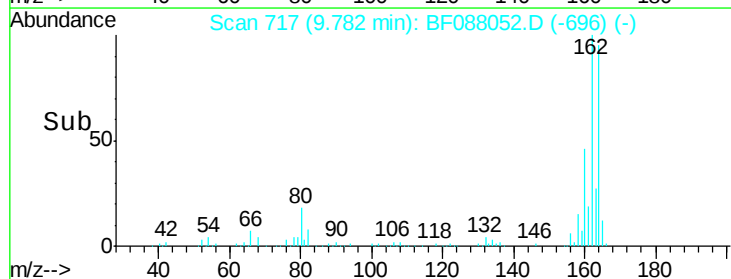
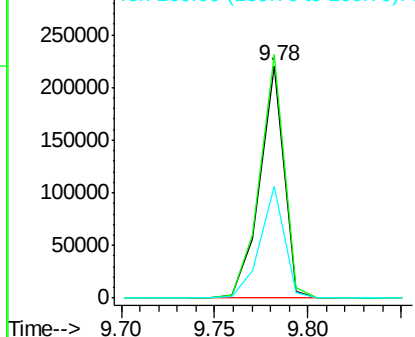


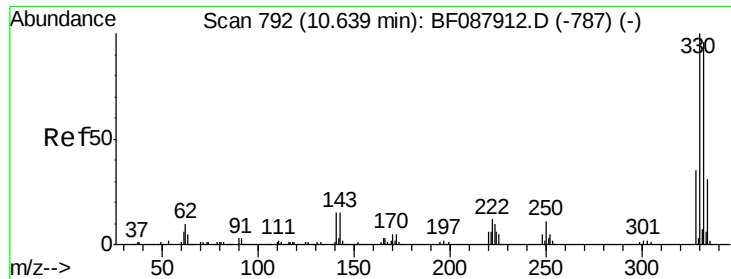
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.78 min Scan# 717  
 Delta R.T. -0.06 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.9 | 85.4  | 128.2 |
| 160     | 47.9  | 39.5  | 59.3  |



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

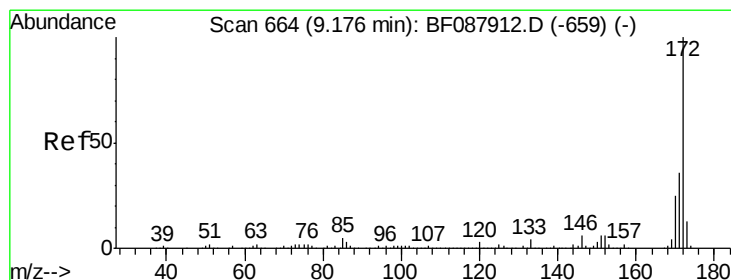
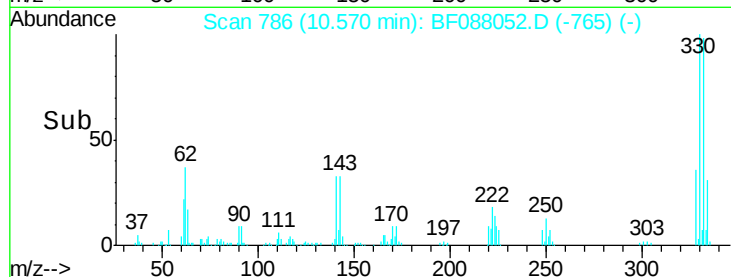
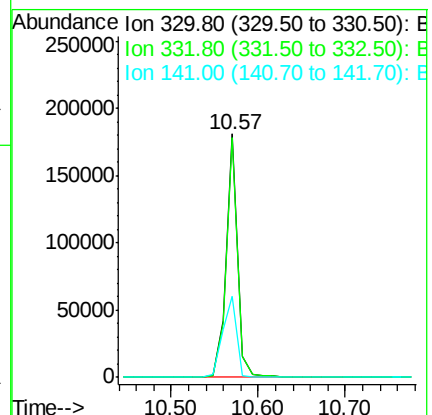
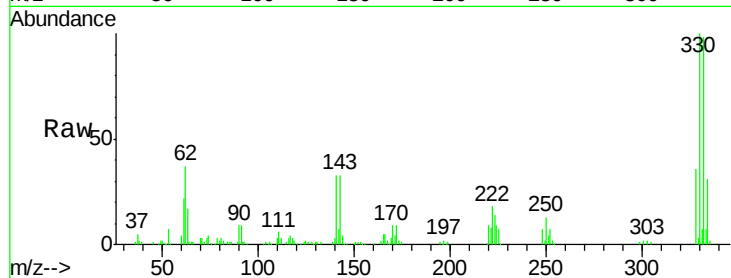




#41  
 2,4,6-Tribromophenol  
 Concen: 81.84 ng  
 RT: 10.57 min Scan# 786  
 Delta R.T. -0.06 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

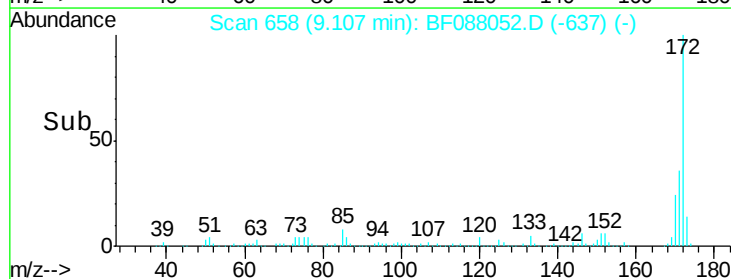
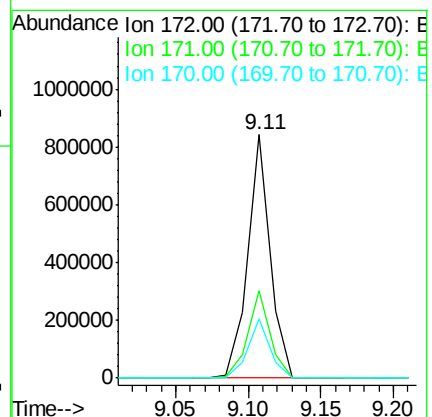
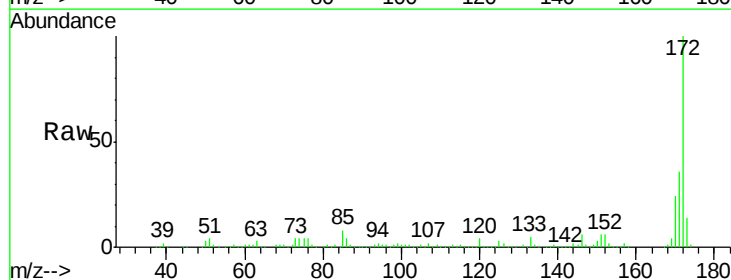
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91188TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 0.0   | 0.0#  |
| 141     | 40.8  | 0.0   | 0.0#  |



#44  
 2-Fluorobiphenyl  
 Concen: 71.46 ng  
 RT: 9.11 min Scan# 658  
 Delta R.T. -0.06 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.6  | 43.0  |
| 170     | 24.2  | 19.2  | 28.8  |





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 9.11 min Scan# 658

Delta R.T. -0.16 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

Instrument :

BNA\_F

ClientSampleId :

PB91188TB

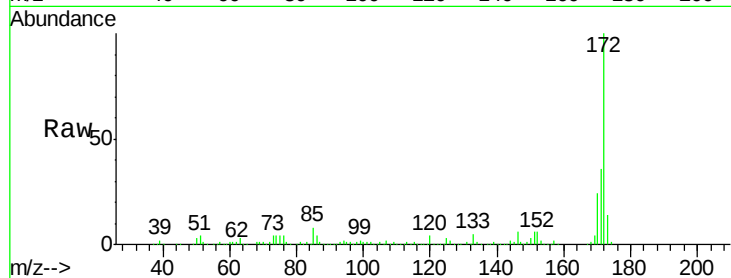
Tgt Ion:154 Resp: 1715

Ion Ratio Lower Upper

154 100

153 945.2 20.6 60.6#

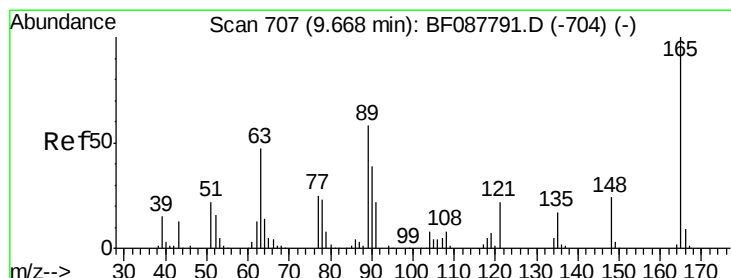
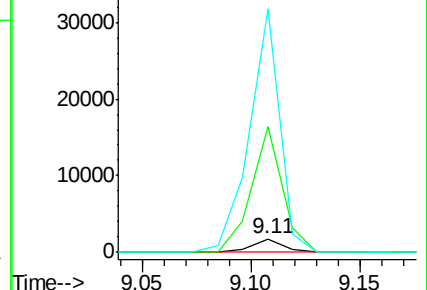
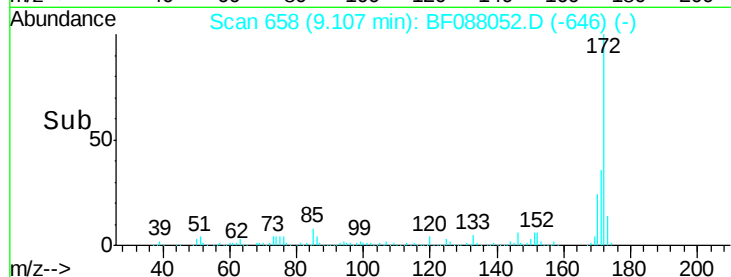
76 1836.9 0.0 35.1#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#50

2,6-Dinitrotoluene

Concen: 7.70 ng

RT: 9.78 min Scan# 717

Delta R.T. 0.16 min

Lab File: BF088052.D

Acq: 16 Jun 2016 00:02

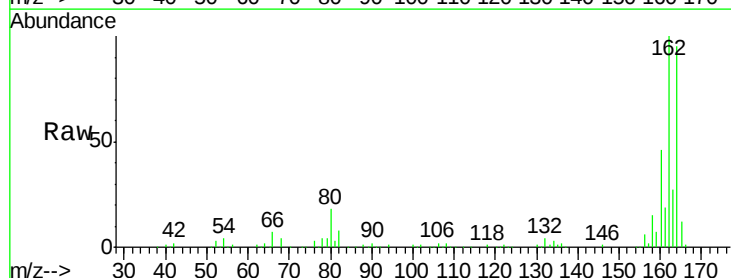
Tgt Ion:165 Resp: 25041

Ion Ratio Lower Upper

165 100

63 1.2 28.1 42.1#

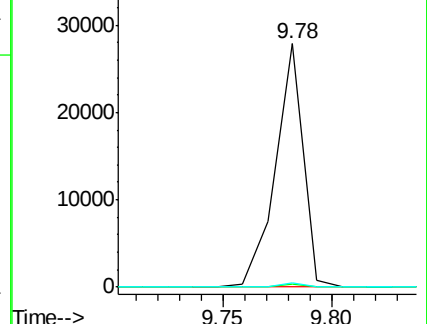
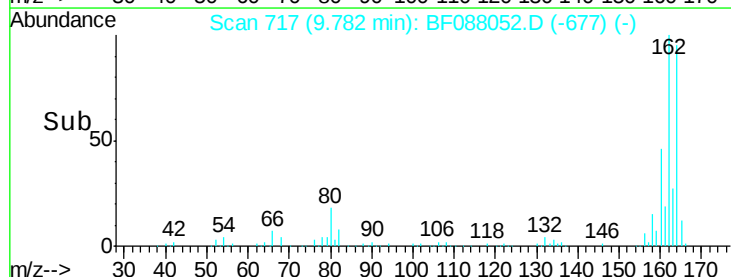
89 1.5 32.2 48.2#



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

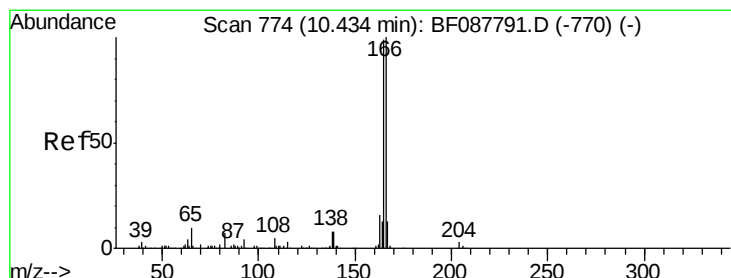
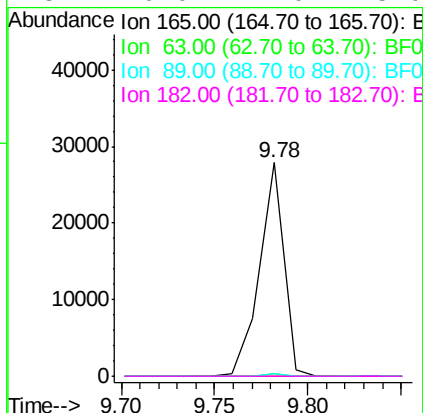
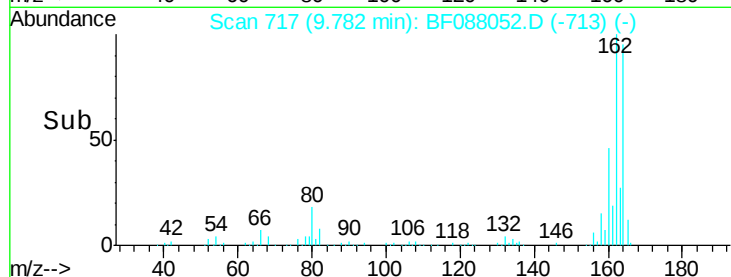
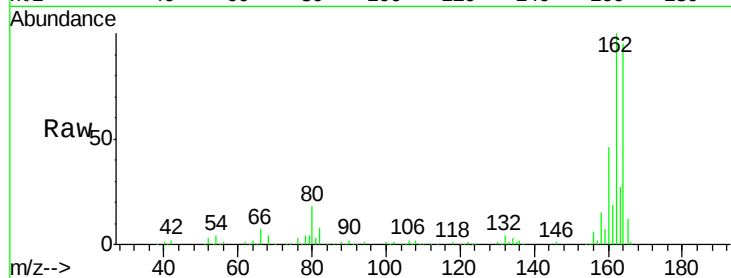




#56  
2,4-Dinitrotoluene  
Concen: 5.99 ng  
RT: 9.78 min Scan# 717  
Delta R.T. -0.25 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

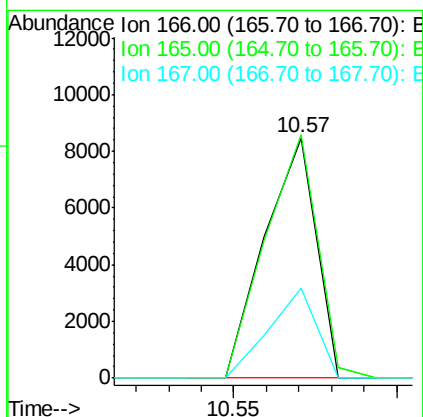
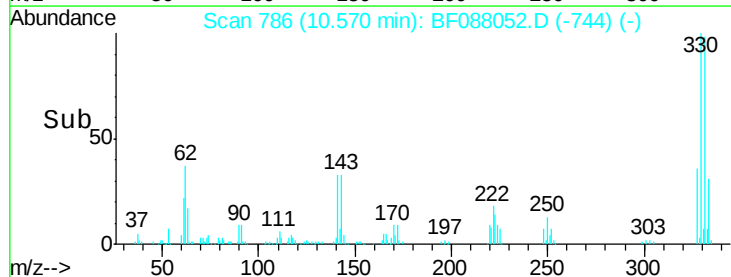
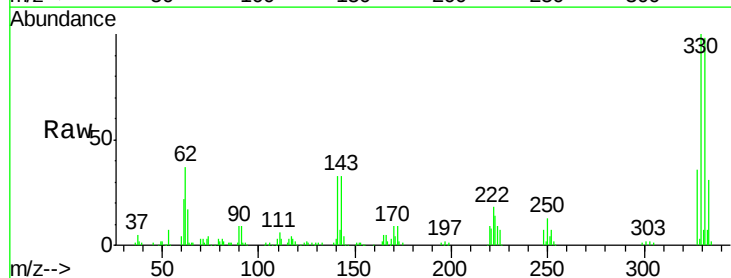
Instrument :  
BNA\_F  
ClientSampleId :  
PB91188TB

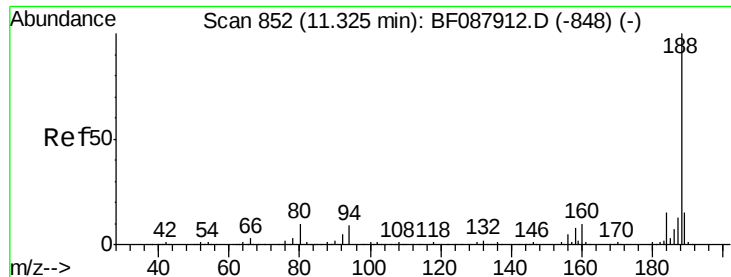
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 22.0  | 33.0# |
| 89      | 1.5   | 41.1  | 61.7# |
| 182     | 0.0   | 2.0   | 3.0#  |



#57  
Fluorene  
Concen: Below Cal  
RT: 10.57 min Scan# 786  
Delta R.T. 0.18 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.5 | 77.8  | 116.8 |
| 167     | 37.6  | 11.2  | 16.8# |

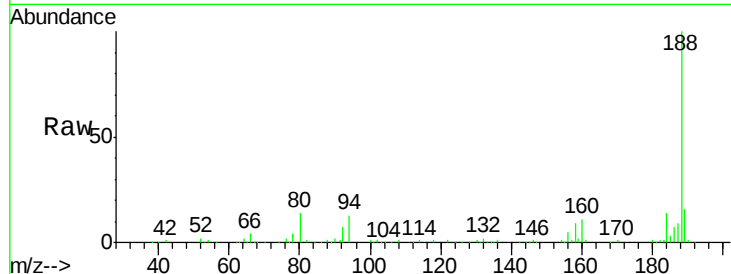




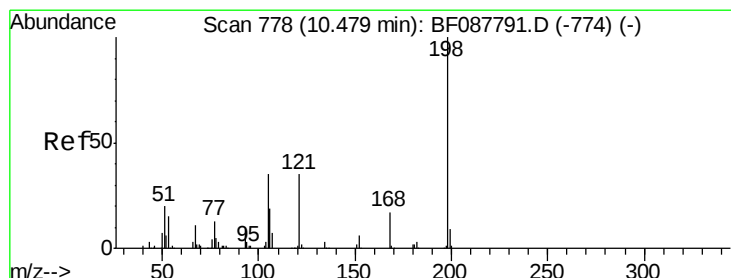
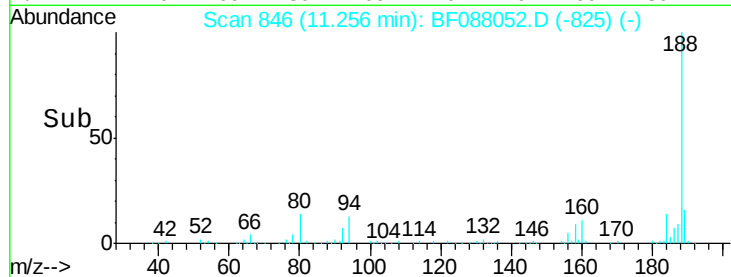
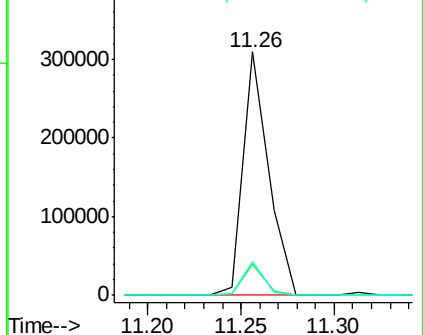
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.26 min Scan# 846  
Delta R.T. -0.06 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

Instrument :  
BNA\_F  
ClientSampleId :  
PB91188TB

Tgt Ion:188 Resp: 293910  
Ion Ratio Lower Upper  
188 100  
94 12.9 9.0 13.6  
80 13.6 10.0 15.0

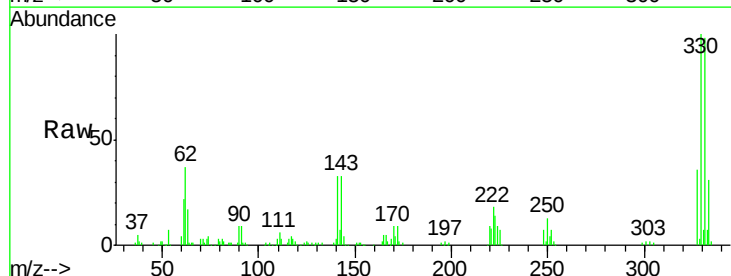


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

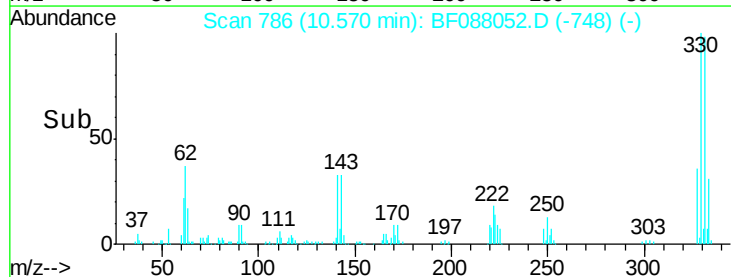
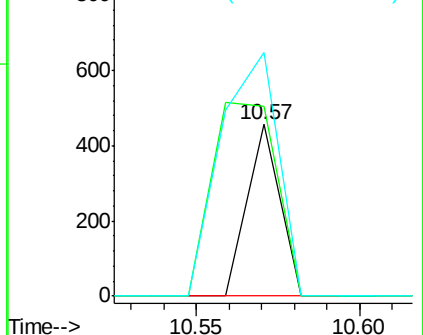


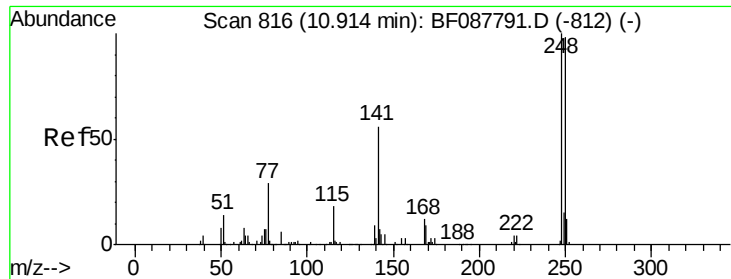
#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.33 ng  
RT: 10.57 min Scan# 786  
Delta R.T. 0.14 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

Tgt Ion:198 Resp: 313  
Ion Ratio Lower Upper  
198 100  
51 110.5 39.6 79.6#  
105 141.6 36.6 76.6#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E

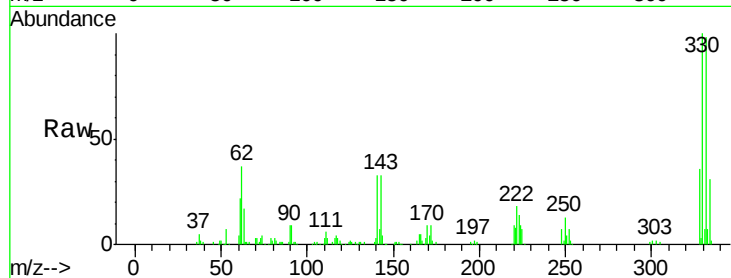




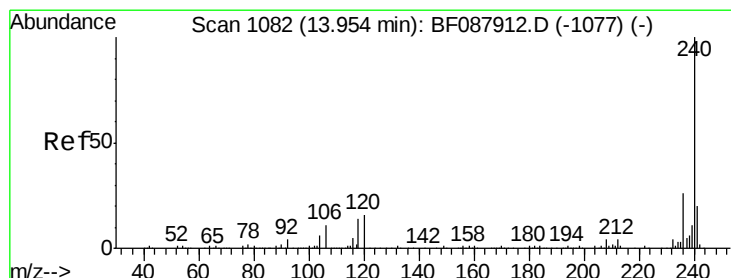
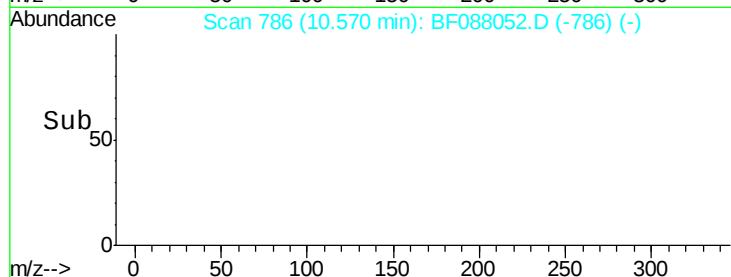
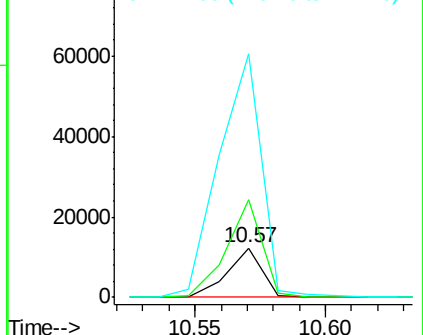
#66  
4-Bromophenyl-phenylether  
Concen: 3.66 ng  
RT: 10.57 min Scan# 786  
Delta R.T. -0.30 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

Instrument :  
BNA\_F  
ClientSampleId :  
PB91188TB

Tgt Ion:248 Resp: 11556  
Ion Ratio Lower Upper  
248 100  
250 196.9 77.1 115.7#  
141 493.1 50.6 76.0#

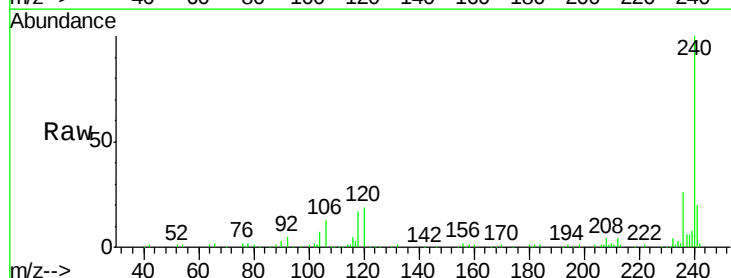


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

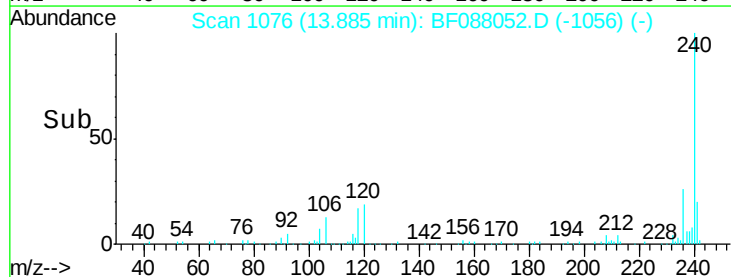
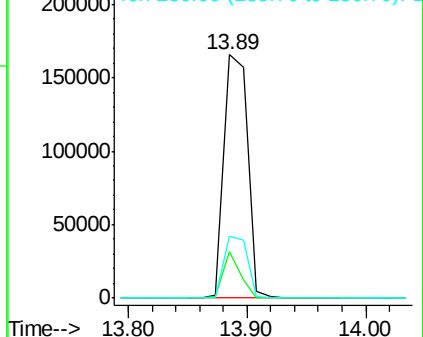


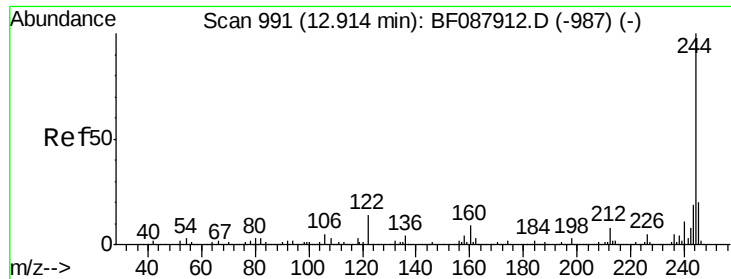
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.89 min Scan# 1076  
Delta R.T. -0.07 min  
Lab File: BF088052.D  
Acq: 16 Jun 2016 00:02

Tgt Ion:240 Resp: 227630  
Ion Ratio Lower Upper  
240 100  
120 19.2 6.8 10.2#  
236 25.7 20.2 30.2



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

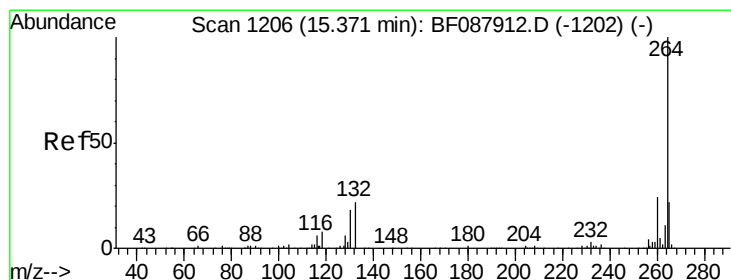
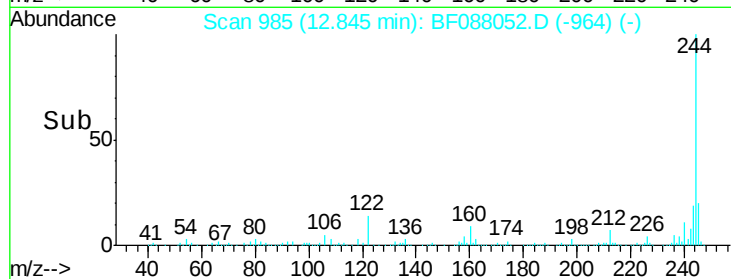
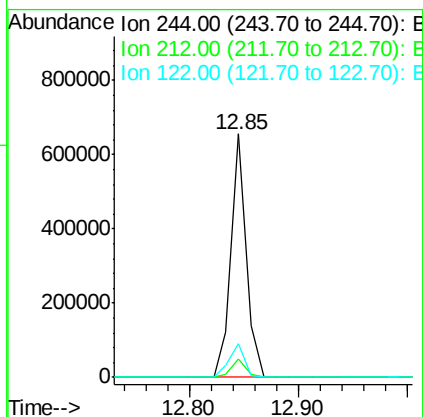
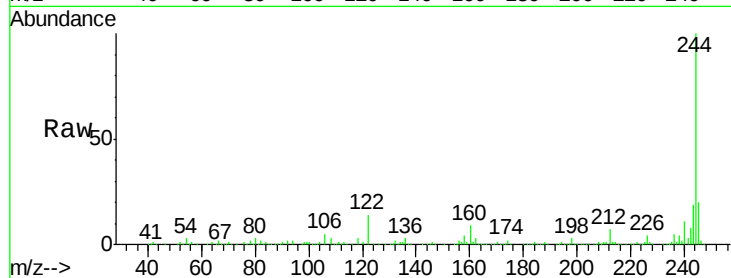




#78  
 Terphenyl-d14  
 Concen: 63.24 ng  
 RT: 12.85 min Scan# 985  
 Delta R.T. -0.06 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB91188TB

Tgt Ion:244 Resp: 632585  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.0 9.0  
 122 14.0 11.2 16.8



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.29 min Scan# 1199  
 Delta R.T. -0.07 min  
 Lab File: BF088052.D  
 Acq: 16 Jun 2016 00:02

Tgt Ion:264 Resp: 224831  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.2 28.8  
 265 22.0 16.9 25.3

