

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052015\  
 Data File : BF079392.D  
 Acq On : 20 May 2015 21:52  
 Operator : TP/IZ  
 Sample : G2227-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 809B1

Quant Time: May 21 01:18:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 21 00:52:28 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.10  | 152  | 70858    | 20.00 | ng    | 0.01     |
| 21) Naphthalene-d8        | 8.67  | 136  | 268023   | 20.00 | ng    | 0.01     |
| 38) Acenaphthene-d10      | 10.84 | 164  | 128299   | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10      | 12.69 | 188  | 252588   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 15.97 | 240  | 289099   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 17.74 | 264  | 295725   | 20.00 | ng    | -0.08    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.37  | 112  | 443963   | 107.85 | ng    | 0.00     |
| 7) Phenol-d6                | 6.67  | 99   | 614597   | 112.95 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.78  | 82   | 305081   | 65.42  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.83 | 330  | 161760   | 116.55 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 10.02 | 172  | 650690   | 70.66  | ng    | 0.01     |
| 78) Terphenyl-d14           | 14.67 | 244  | 739030   | 61.20  | ng    | 0.00     |

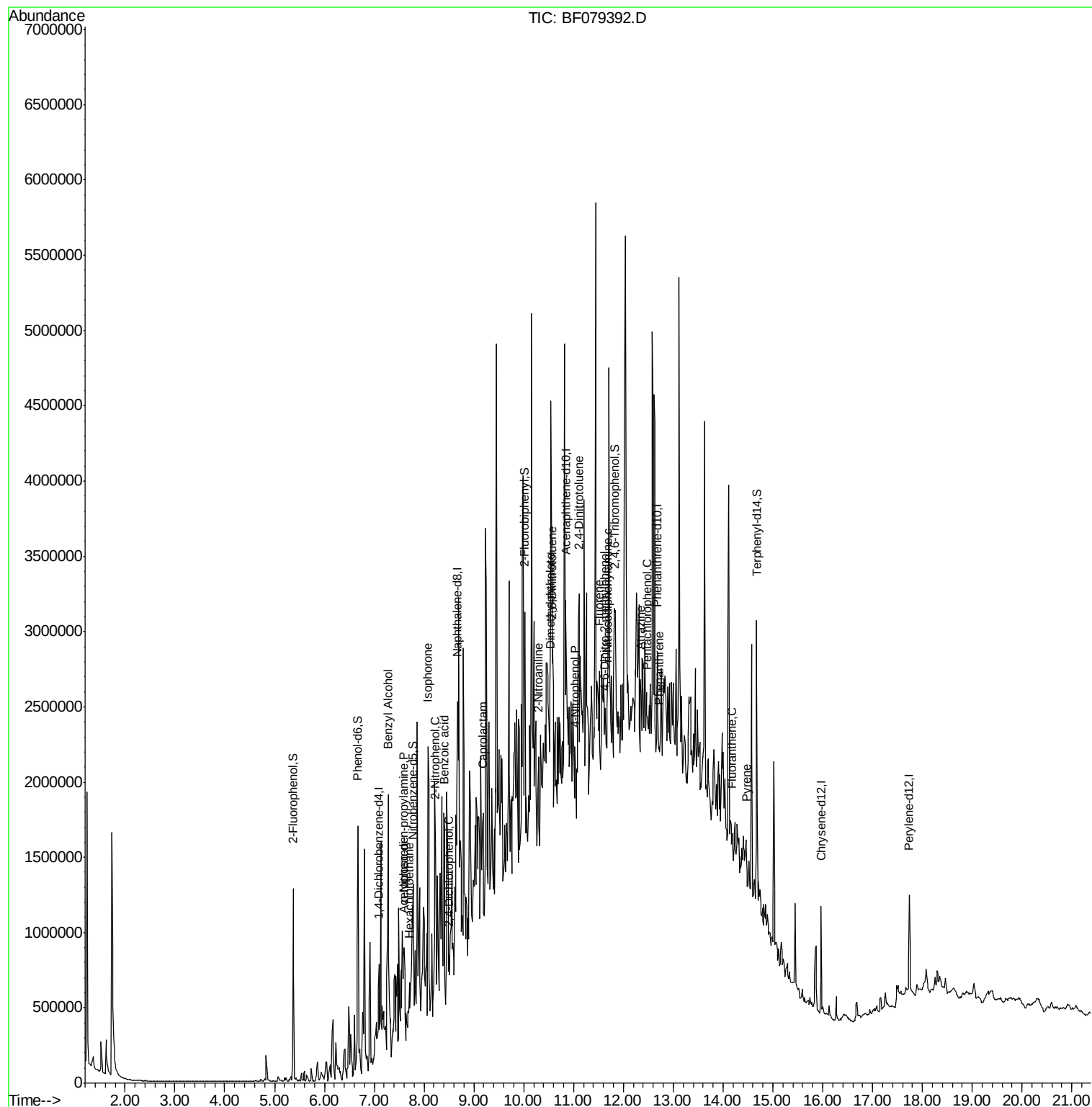
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 15) Benzyl Alcohol             | 7.28  | 79   | 12140    | 3.01  | ng    | # 54   |
| 18) Hexachloroethane           | 7.70  | 117  | 12756    | 6.86  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.60  | 70   | 19776    | 5.38  | ng    | # 77   |
| 22) Acetophenone               | 7.59  | 105  | 143945   | 23.77 | ng    | # 46   |
| 25) Isophorone                 | 8.08  | 82   | 63635    | 7.36  | ng    | # 1    |
| 26) 2-Nitrophenol              | 8.23  | 139  | 9652     | 5.04  | ng    | # 1    |
| 29) 2,4-Dichlorophenol         | 8.49  | 162  | 7256     | 2.13  | ng    | # 1    |
| 32) Benzoic acid               | 8.41  | 122  | 5805     | 8.41  | ng    | # 1    |
| 35) Caprolactam                | 9.19  | 113  | 7603     | 6.91  | ng    | # 1    |
| 47) 2-Nitroaniline             | 10.30 | 65   | 7945     | 3.45  | ng    | # 22   |
| 49) Dimethylphthalate          | 10.52 | 163  | 55961    | 5.94  | ng    | # 92   |
| 50) 2,6-Dinitrotoluene         | 10.57 | 165  | 8752     | 4.71  | ng    | # 73   |
| 55) 4-Nitrophenol              | 11.04 | 139  | 3991     | 2.17  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 11.11 | 165  | 13428    | 5.47  | ng    | # 61   |
| 57) Fluorene                   | 11.52 | 166  | 49591    | 5.37  | ng    | # 73   |
| 64) 4,6-Dinitro-2-methylphenol | 11.62 | 198  | 1465     | 2.87  | ng    | # 1    |
| 65) n-Nitrosodiphenylamine     | 11.68 | 169  | 113645   | 13.51 | ng    | # 39   |
| 68) Atrazine                   | 12.35 | 200  | 22495    | 9.20  | ng    | # 73   |
| 69) Pentachlorophenol          | 12.47 | 266  | 1133     | 7.43  | ng    | # 1    |
| 70) Phenanthrene               | 12.71 | 178  | 63954    | 4.53  | ng    | # 81   |
| 74) Fluoranthene               | 14.18 | 202  | 32173    | 2.19  | ng    | # 78   |
| 77) Pyrene                     | 14.47 | 202  | 94347    | 5.66  | ng    | # 95   |

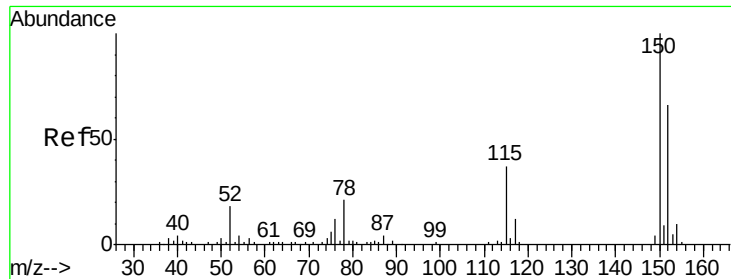
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF052015\  
Data File : BF079392.D  
Acq On : 20 May 2015 21:52  
Operator : TP/IZ  
Sample : G2227-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
809B1

Quant Time: May 21 01:18:25 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 21 00:52:28 2015  
Response via : Initial Calibration

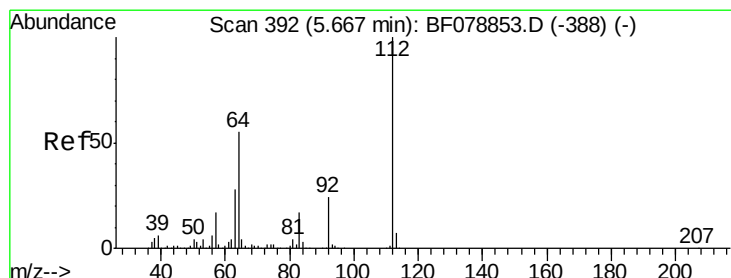
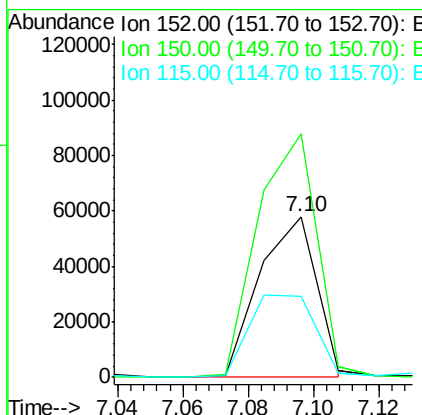
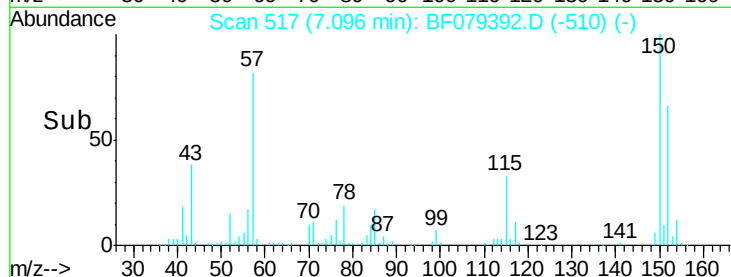
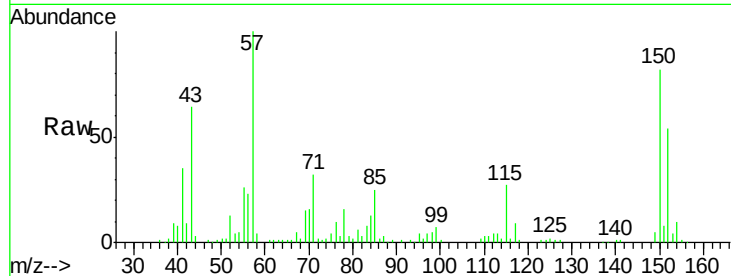




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.10 min Scan# 517  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

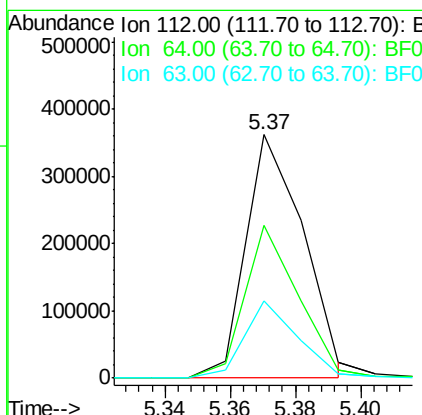
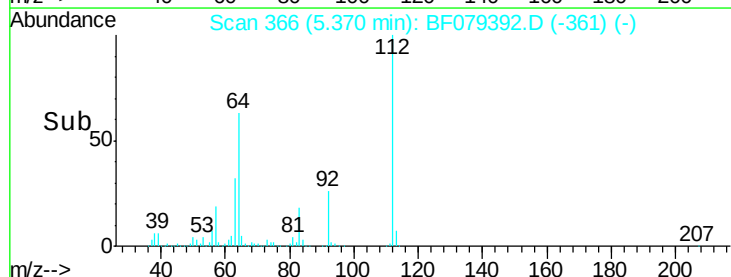
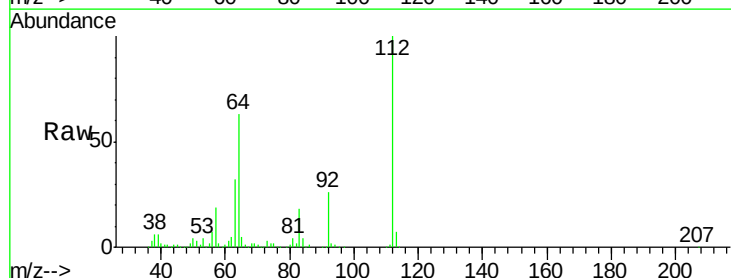
Instrument :  
 BNA\_F  
 ClientSampleId :  
 809B1

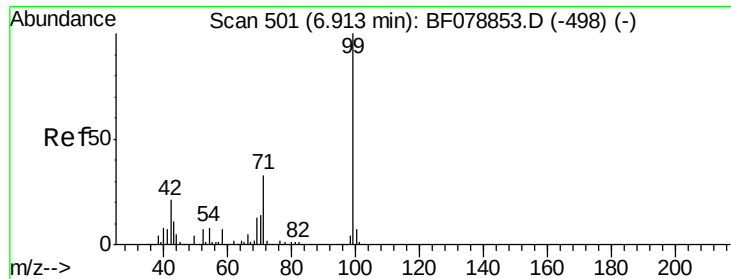
Tgt Ion:152 Resp: 70858  
 Ion Ratio Lower Upper  
 152 100  
 150 151.8 123.8 185.8  
 115 50.3 49.4 74.0



#5  
 2-Fluorophenol  
 Concen: 107.85 ng  
 RT: 5.37 min Scan# 366  
 Delta R.T. -0.00 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Tgt Ion:112 Resp: 443963  
 Ion Ratio Lower Upper  
 112 100  
 64 62.5 44.2 66.2  
 63 31.5 22.7 34.1





#7

Phenol-d6

Concen: 112.95 ng

RT: 6.67 min Scan# 480

Delta R.T. 0.01 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

Instrument :

BNA\_F

ClientSampleId :

809B1

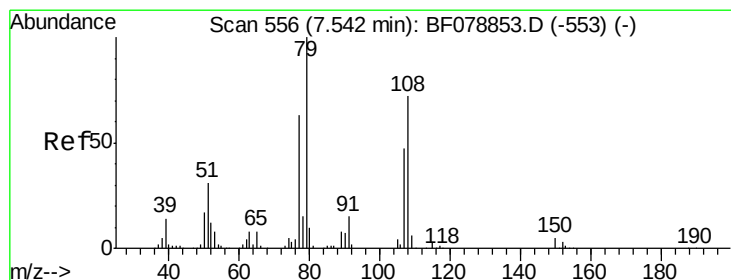
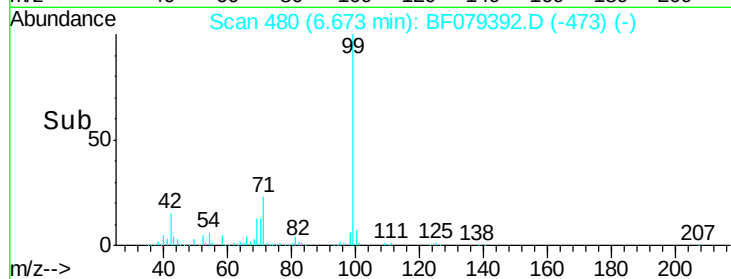
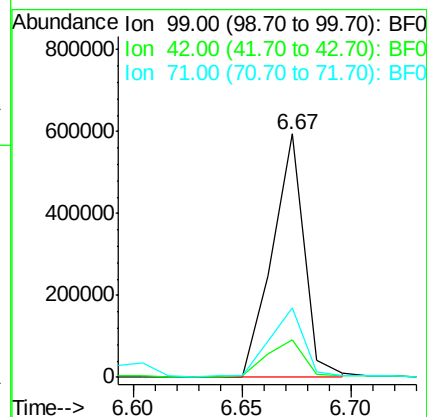
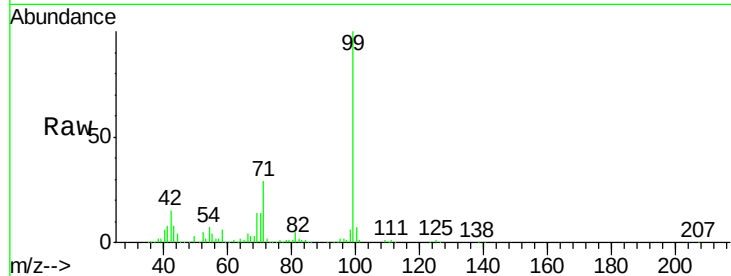
Tgt Ion: 99 Resp: 614597

Ion Ratio Lower Upper

99 100

42 15.3 17.1 25.7#

71 28.5 26.3 39.5



#15

Benzyl Alcohol

Concen: 3.01 ng

RT: 7.28 min Scan# 533

Delta R.T. -0.00 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

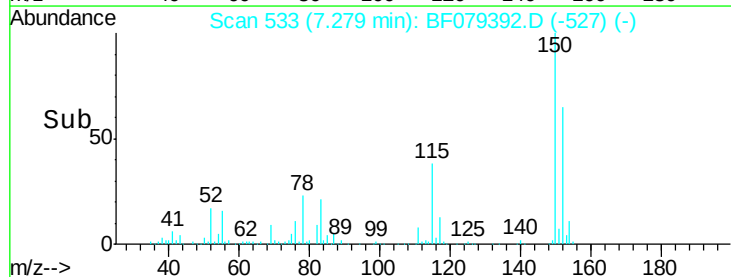
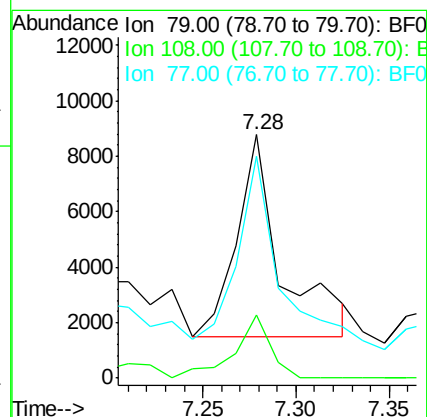
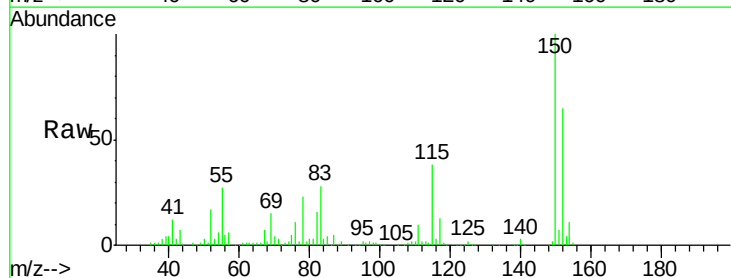
Tgt Ion: 79 Resp: 12140

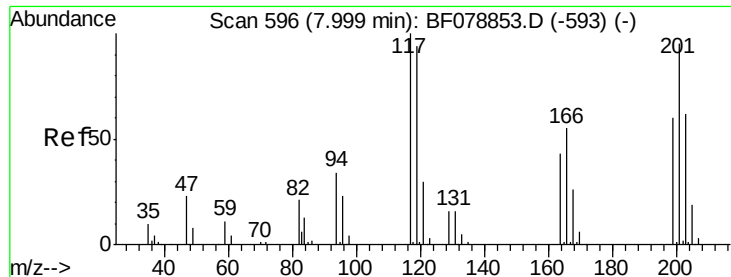
Ion Ratio Lower Upper

79 100

108 26.2 57.4 86.2#

77 90.9 50.2 75.4#

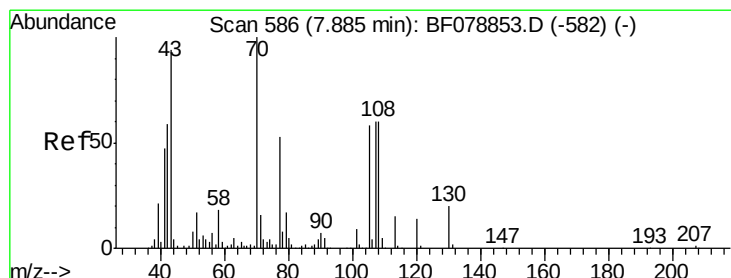
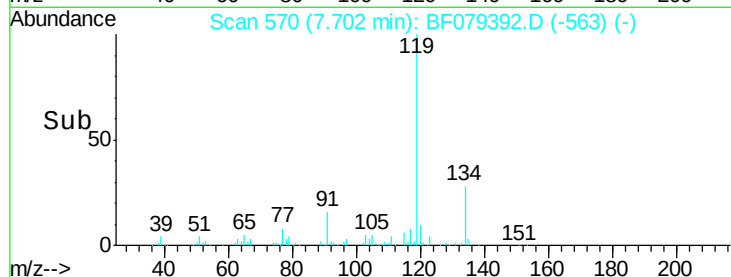
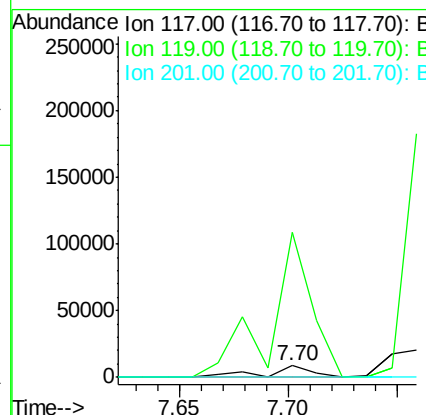
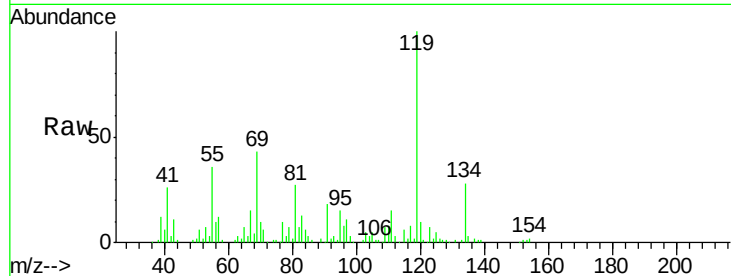




#18  
Hexachloroethane  
Concen: 6.86 ng  
RT: 7.70 min Scan# 570  
Delta R.T. -0.00 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

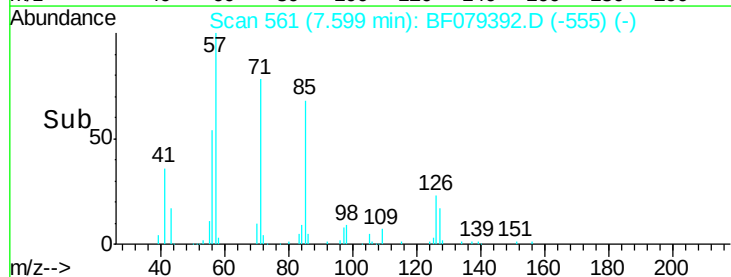
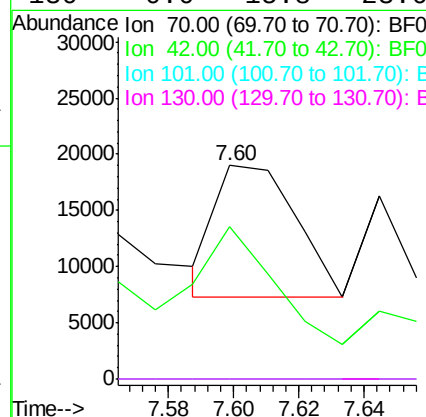
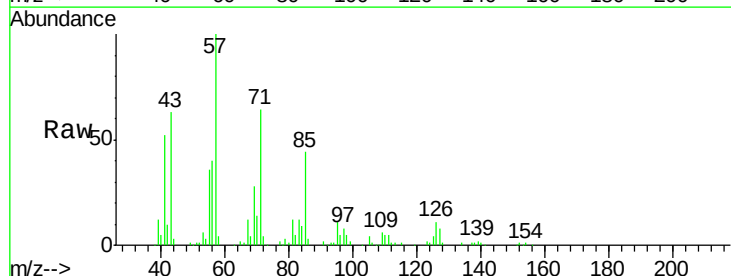
Instrument :  
BNA\_F  
ClientSampled :  
809B1

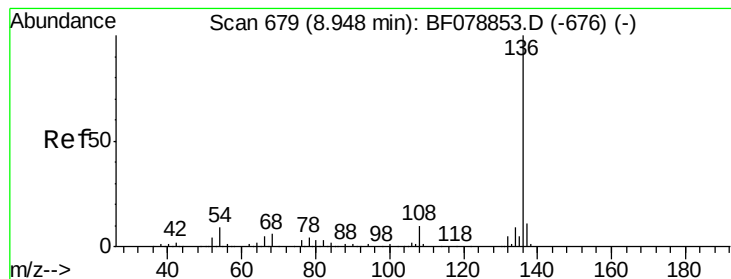
Tgt Ion: 117 Resp: 12756  
Ion Ratio Lower Upper  
117 100  
119 1268.8 75.2 112.8#  
201 0.0 75.8 113.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.38 ng  
RT: 7.60 min Scan# 561  
Delta R.T. -0.01 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

Tgt Ion: 70 Resp: 19776  
Ion Ratio Lower Upper  
70 100  
42 71.5 47.3 70.9#  
101 0.0 7.5 11.3#  
130 0.0 15.8 23.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.67 min Scan# 655

Delta R.T. 0.01 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

Instrument :

BNA\_F

ClientSampleId :

809B1

Tgt Ion:136 Resp: 268023

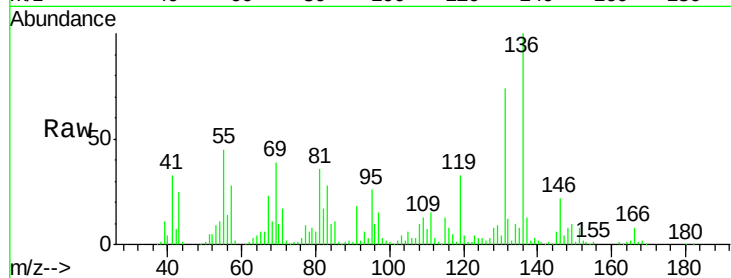
Ion Ratio Lower Upper

136 100

137 12.8 8.8 13.2

54 11.0 6.9 10.3#

68 11.4 4.9 7.3#

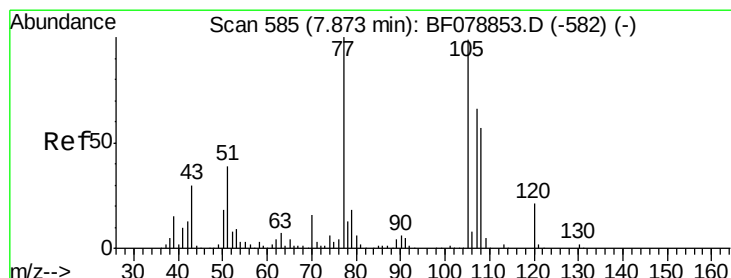
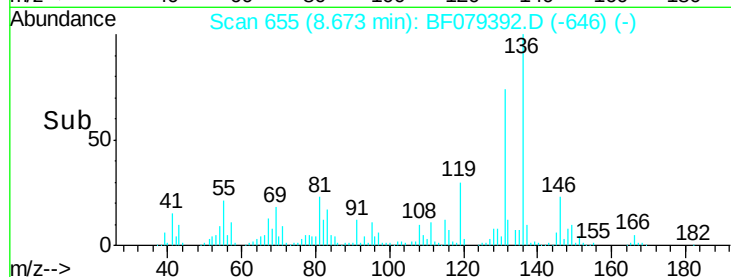
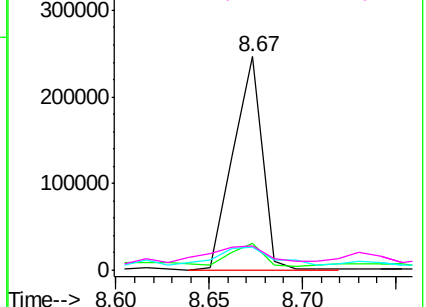


Abundance Ion 136.00 (135.70 to 136.70): E

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



#22

Acetophenone

Concen: 23.77 ng

RT: 7.59 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

Tgt Ion:105 Resp: 143945

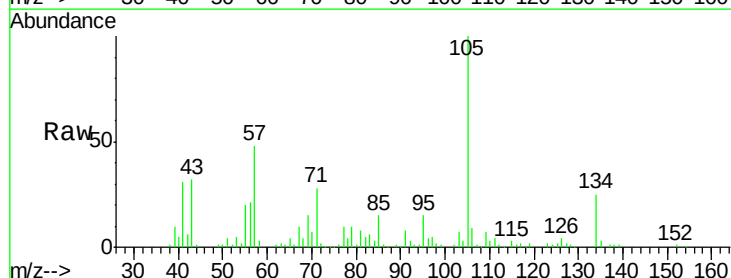
Ion Ratio Lower Upper

105 100

71 27.5 2.2 3.4#

51 3.7 31.1 46.7#

120 0.0 16.7 25.1#

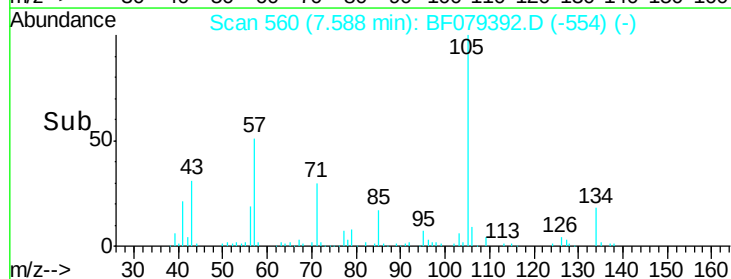
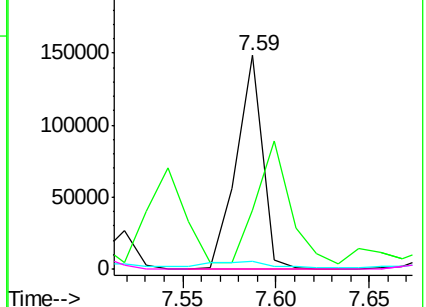


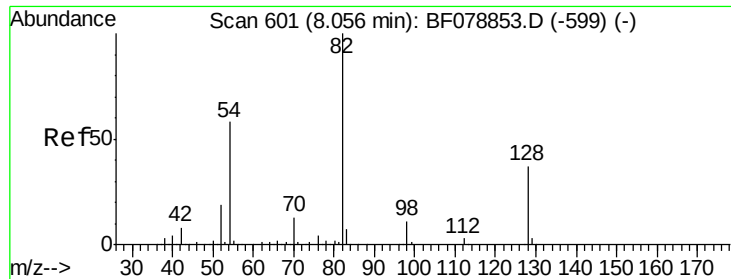
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF0

Ion 51.00 (50.70 to 51.70): BF0

Ion 120.00 (119.70 to 120.70): E

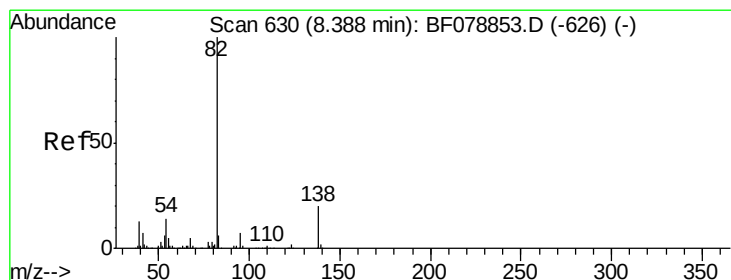
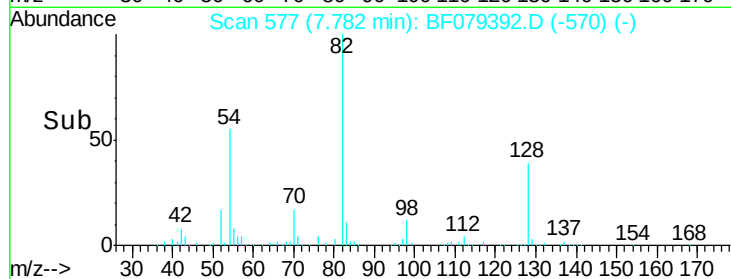
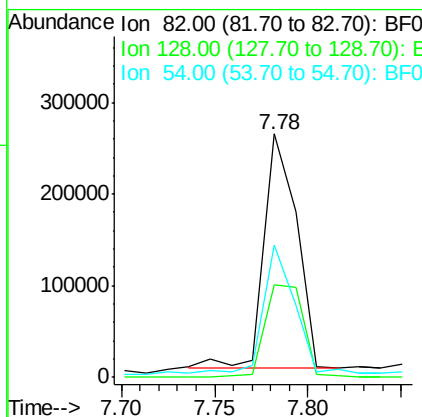
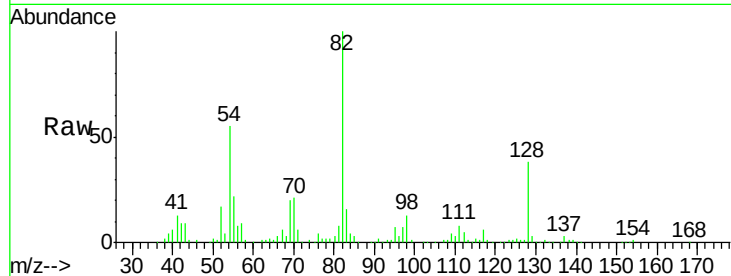




#23  
 Nitrobenzene-d5  
 Concen: 65.42 ng  
 RT: 7.78 min Scan# 577  
 Delta R.T. -0.00 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

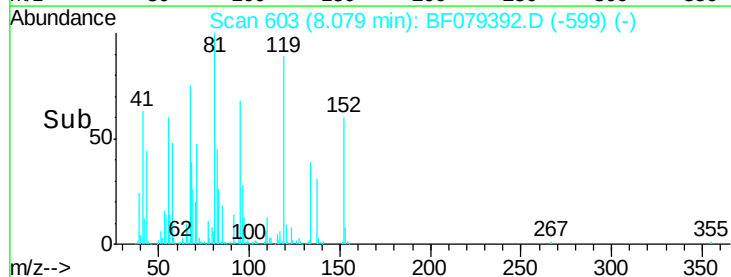
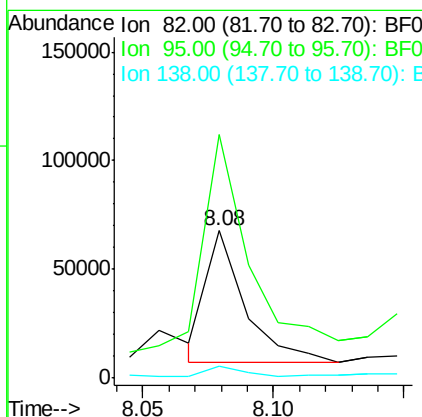
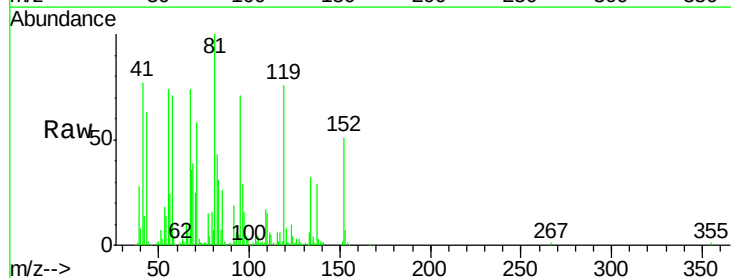
Instrument :  
 BNA\_F  
 ClientSampled :  
 809B1

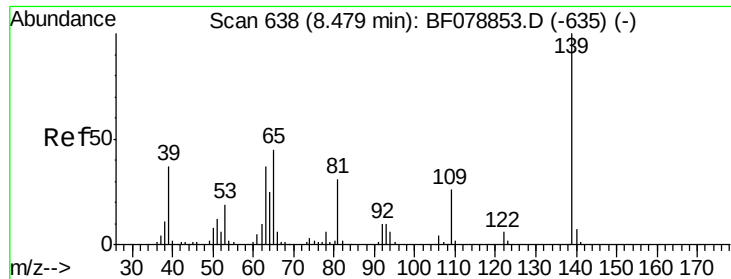
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.8  | 29.7  | 44.5  |
| 54      | 54.6  | 46.2  | 69.4  |



#25  
 Isophorone  
 Concen: 7.36 ng  
 RT: 8.08 min Scan# 603  
 Delta R.T. -0.03 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 165.3 | 5.4   | 8.2#  |
| 138     | 7.8   | 16.1  | 24.1# |

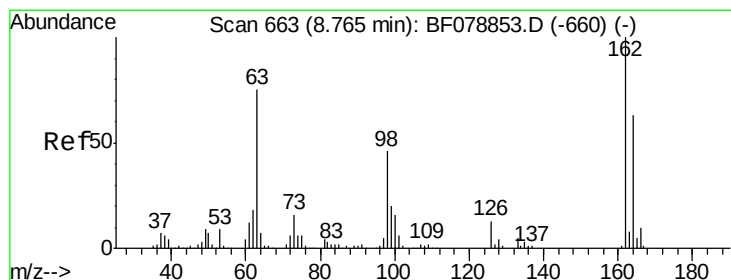
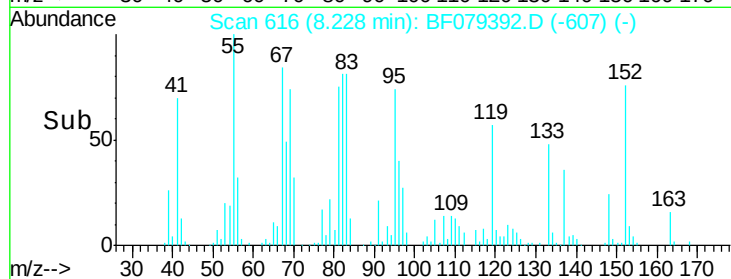
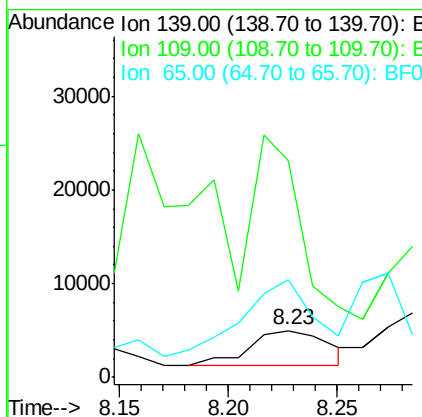
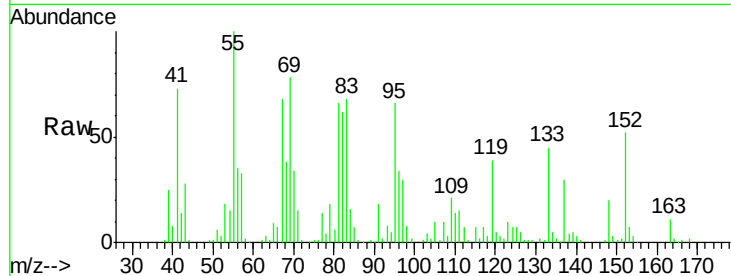




#26  
2-Nitrophenol  
Concen: 5.04 ng  
RT: 8.23 min Scan# 616  
Delta R.T. 0.02 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

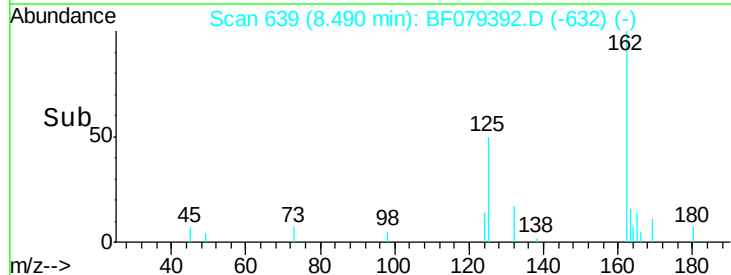
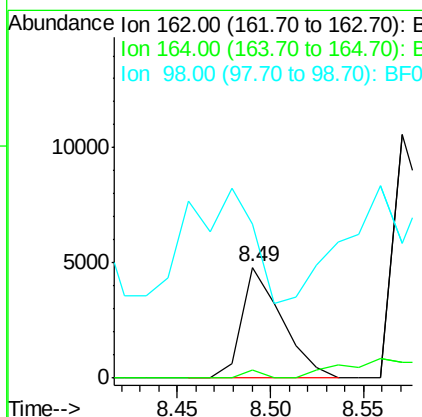
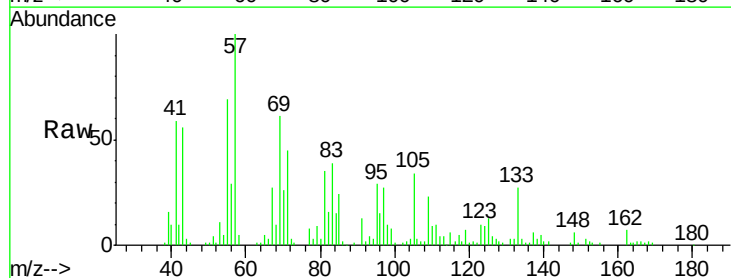
Instrument :  
BNA\_F  
ClientSampled :  
809B1

Tgt Ion:139 Resp: 9652  
Ion Ratio Lower Upper  
139 100  
109 461.7 20.9 31.3#  
65 206.6 35.8 53.8#

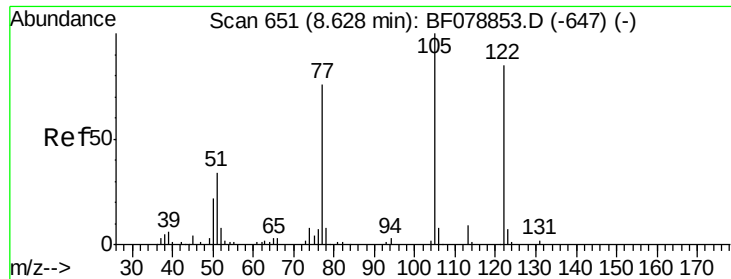


#29  
2,4-Dichlorophenol  
Concen: 2.13 ng  
RT: 8.49 min Scan# 639  
Delta R.T. -0.01 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

Tgt Ion:162 Resp: 7256  
Ion Ratio Lower Upper  
162 100  
164 7.2 42.7 82.7#  
98 139.5 26.3 66.3#



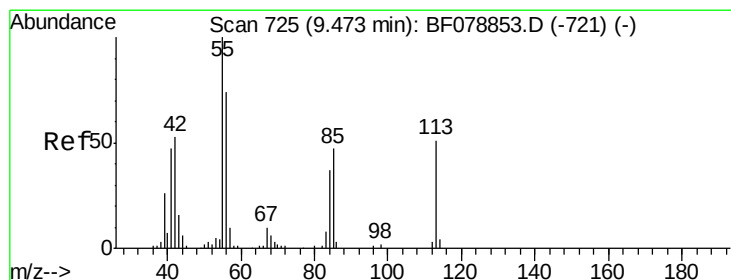
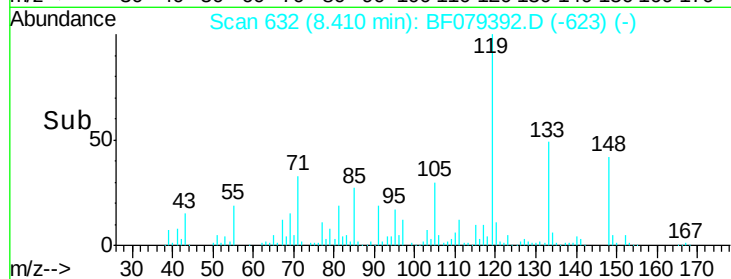
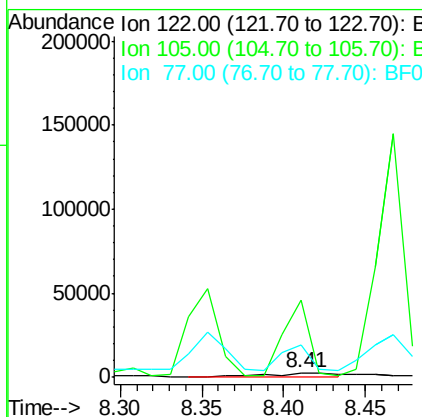
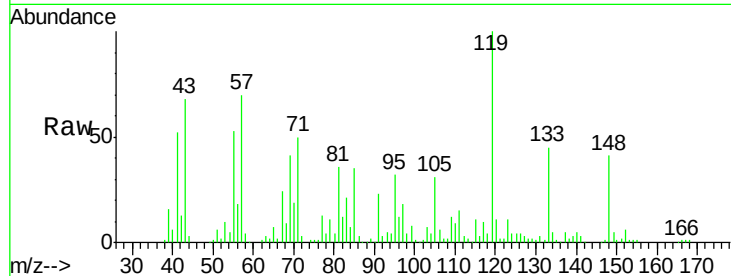




#32  
Benzoic acid  
Concen: 8.41 ng  
RT: 8.41 min Scan# 632  
Delta R.T. 0.02 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

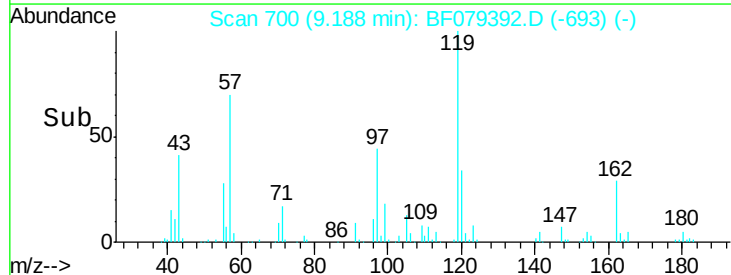
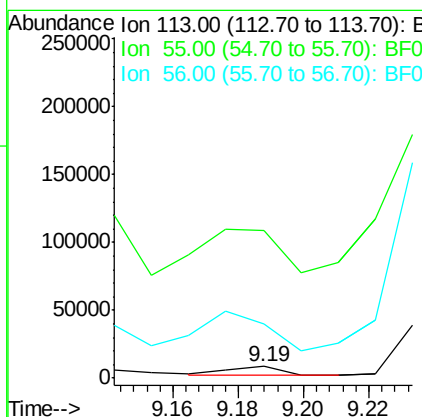
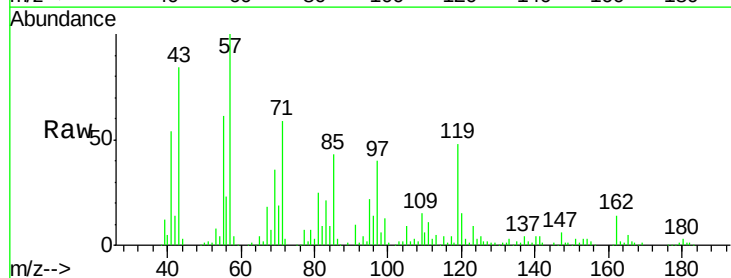
Instrument :  
BNA\_F  
ClientSampleId :  
809B1

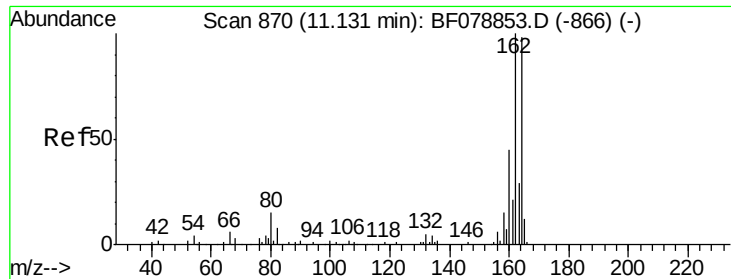
Tgt Ion:122 Resp: 5805  
Ion Ratio Lower Upper  
122 100  
105 1749.8 100.7 140.7#  
77 748.3 72.0 112.0#



#35  
Caprolactam  
Concen: 6.91 ng  
RT: 9.19 min Scan# 700  
Delta R.T. -0.01 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

Tgt Ion:113 Resp: 7603  
Ion Ratio Lower Upper  
113 100  
55 1261.4 176.0 216.0#  
56 468.6 123.8 163.8#

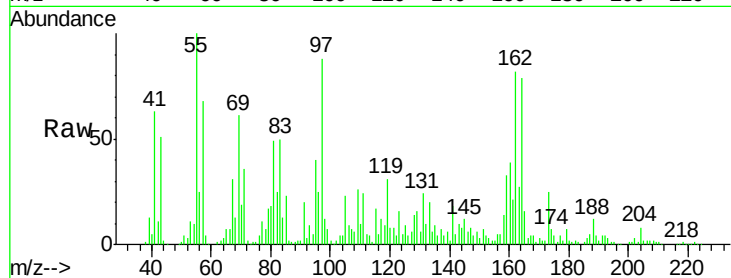




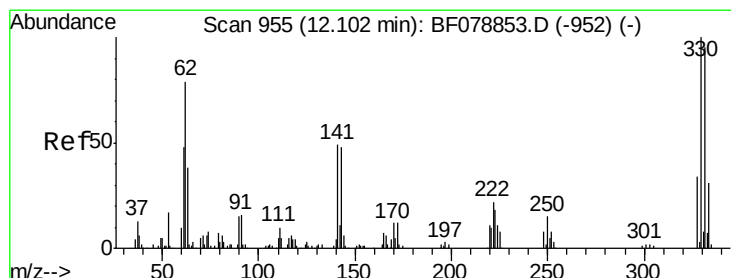
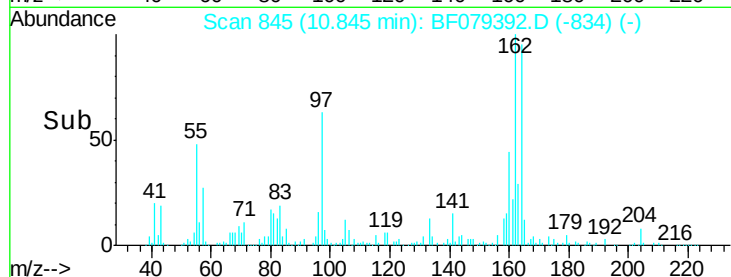
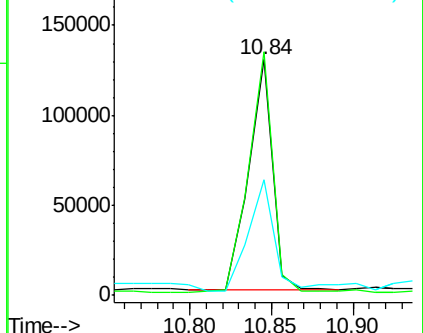
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.84 min Scan# 845  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 809B1

Tgt Ion:164 Resp: 128299  
 Ion Ratio Lower Upper  
 164 100  
 162 103.4 81.4 122.0  
 160 49.1 36.6 54.8

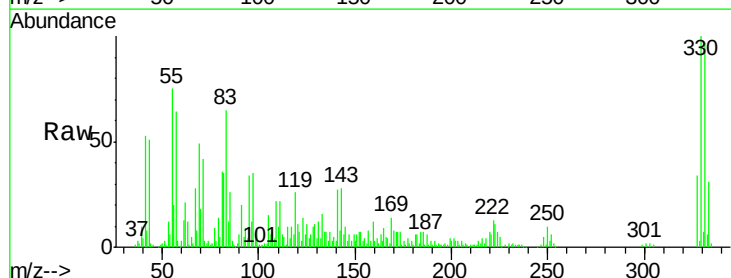


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

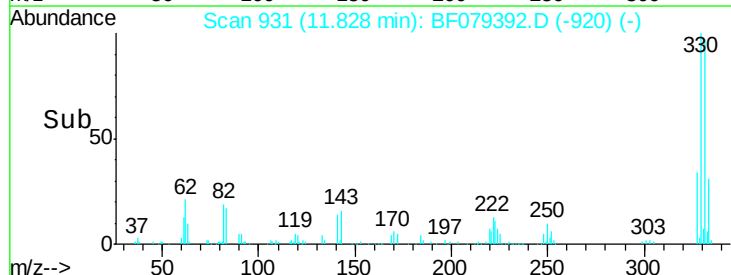
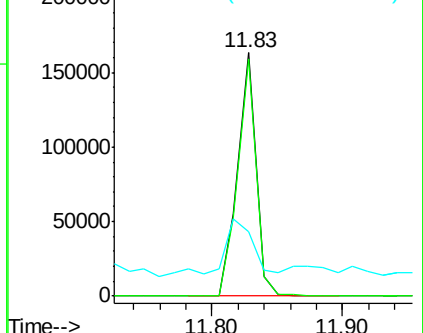


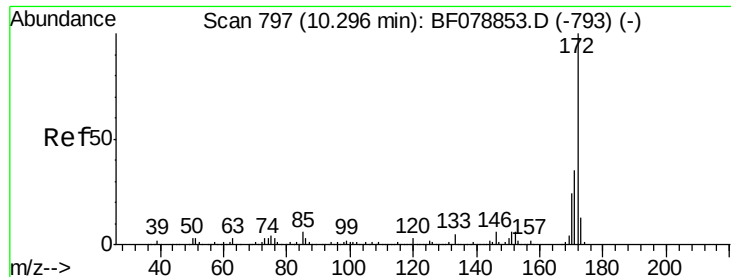
#41  
 2,4,6-Tribromophenol  
 Concen: 116.55 ng  
 RT: 11.83 min Scan# 931  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Tgt Ion:330 Resp: 161760  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 76.9 115.3  
 141 37.8 27.8 41.8



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

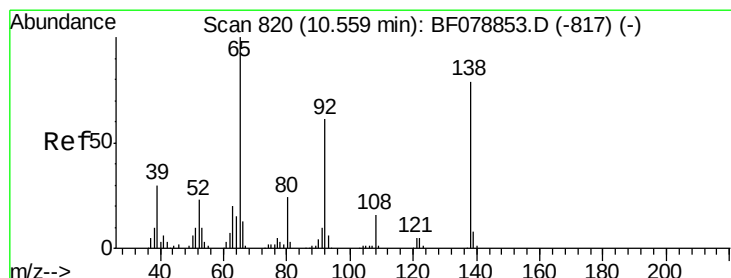
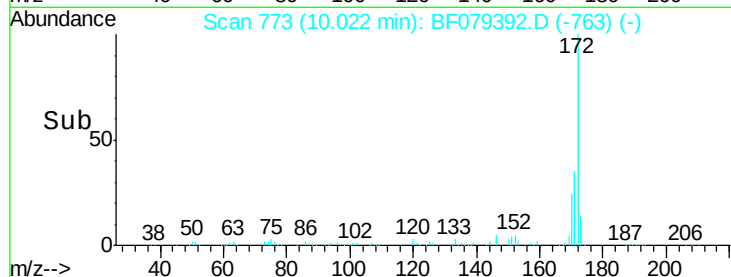
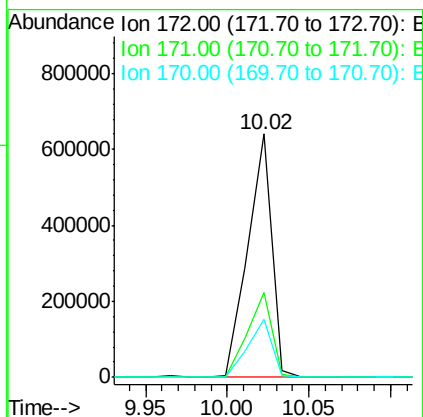
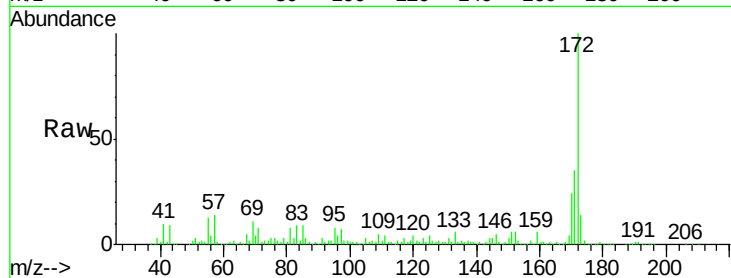




#44  
 2-Fluorobiphenyl  
 Concen: 70.66 ng  
 RT: 10.02 min Scan# 773  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

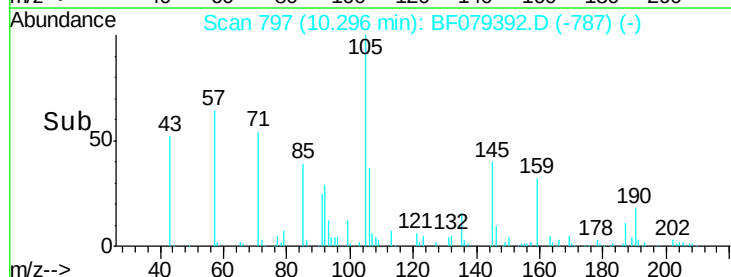
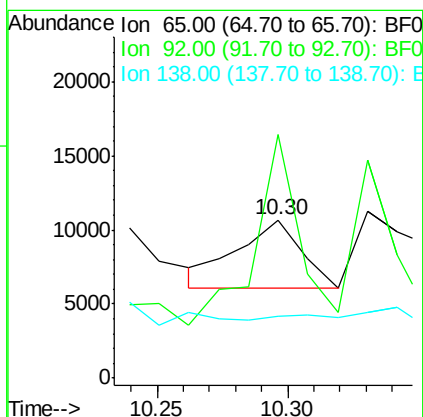
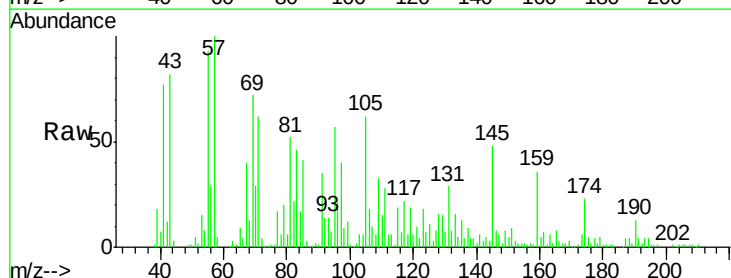
Instrument :  
 BNA\_F  
 ClientSampleId :  
 809B1

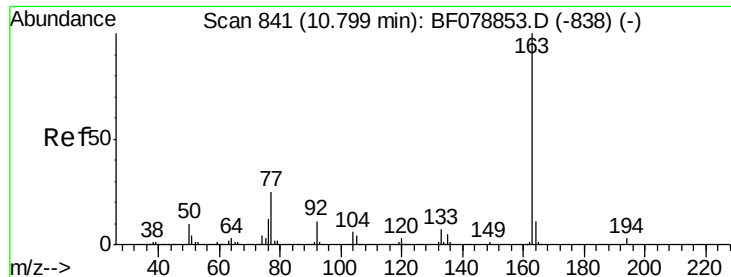
Tgt Ion: 172 Resp: 650690  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 28.3 42.5  
 170 24.0 19.4 29.2



#47  
 2-Nitroaniline  
 Concen: 3.45 ng  
 RT: 10.30 min Scan# 797  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Tgt Ion: 65 Resp: 7945  
 Ion Ratio Lower Upper  
 65 100  
 92 154.3 49.1 73.7#  
 138 39.5 63.2 94.8#

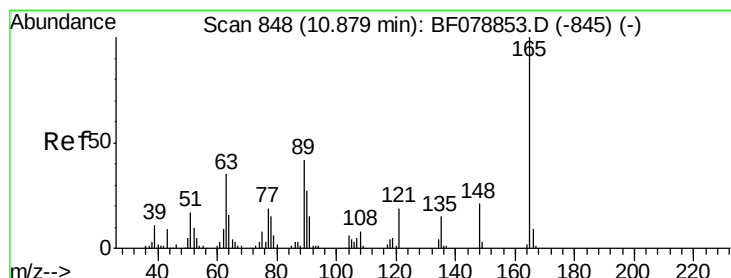
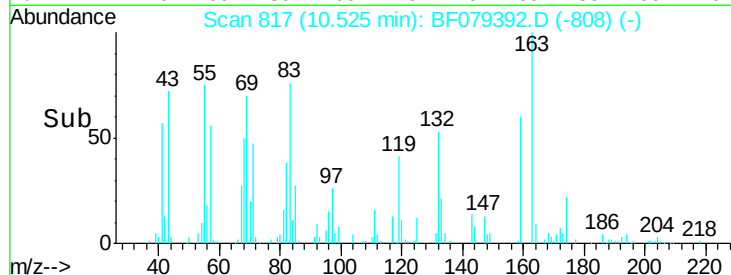
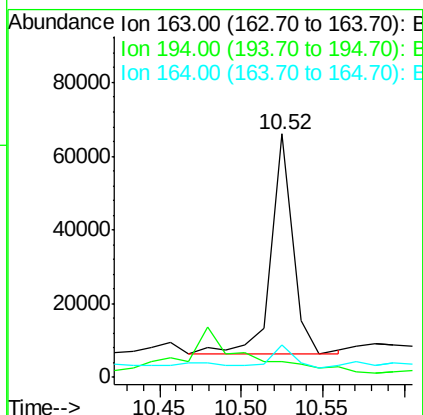
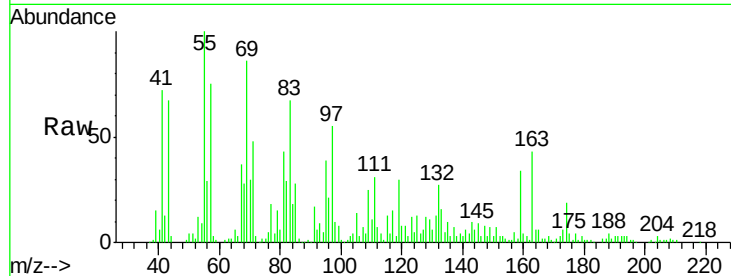




#49  
Dimethylphthalate  
Concen: 5.94 ng  
RT: 10.52 min Scan# 817  
Delta R.T. -0.00 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

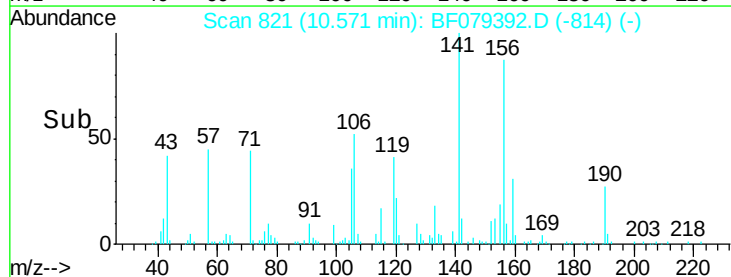
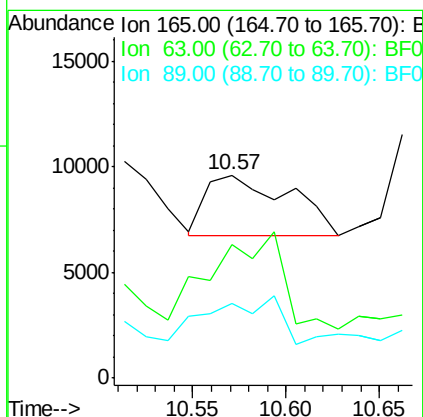
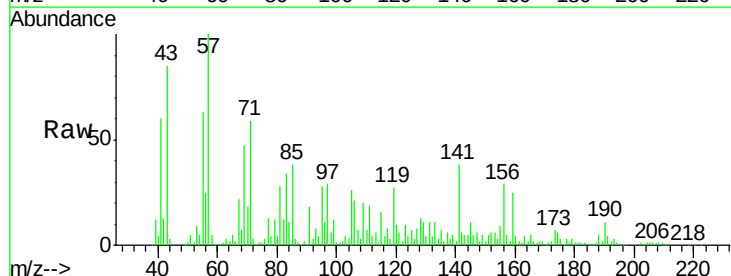
Instrument :  
BNA\_F  
ClientSampled :  
809B1

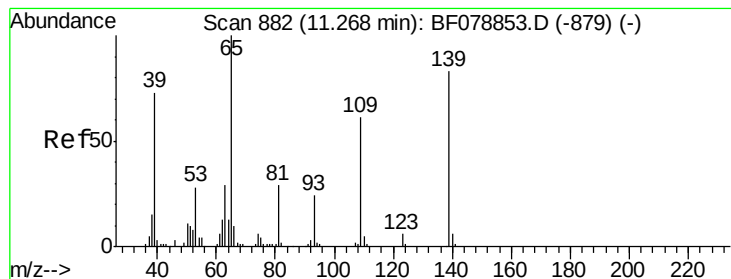
Tgt Ion:163 Resp: 55961  
Ion Ratio Lower Upper  
163 100  
194 6.6 2.4 3.6#  
164 13.5 8.6 12.8#



#50  
2,6-Dinitrotoluene  
Concen: 4.71 ng  
RT: 10.57 min Scan# 821  
Delta R.T. -0.02 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

Tgt Ion:165 Resp: 8752  
Ion Ratio Lower Upper  
165 100  
63 65.5 29.2 43.8#  
89 36.7 33.3 49.9





#55

4-Nitrophenol

Concen: 2.17 ng

RT: 11.04 min Scan# 862

Delta R.T. 0.01 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

Instrument :

BNA\_F

ClientSampled :

809B1

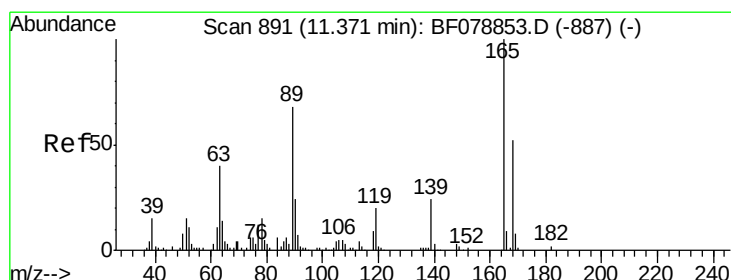
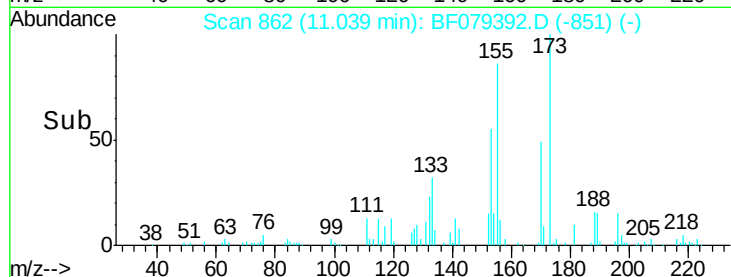
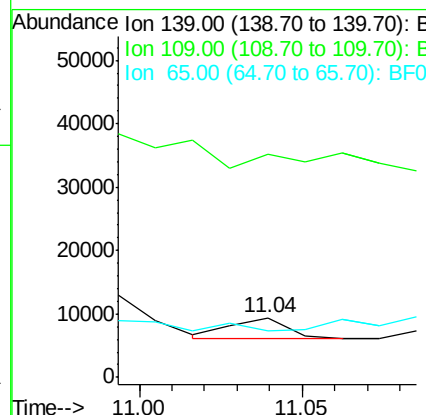
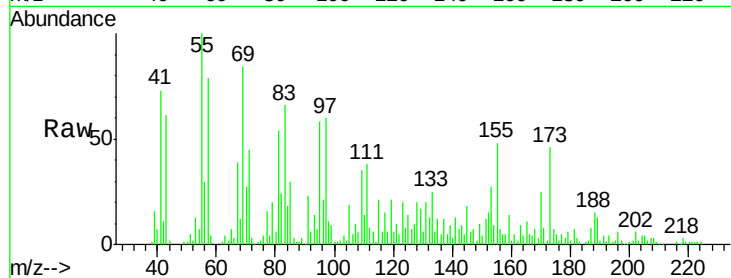
Tgt Ion:139 Resp: 3991

Ion Ratio Lower Upper

139 100

109 373.1 54.4 94.4#

65 78.1 101.0 141.0#



#56

2,4-Dinitrotoluene

Concen: 5.47 ng

RT: 11.11 min Scan# 868

Delta R.T. 0.01 min

Lab File: BF079392.D

Acq: 20 May 2015 21:52

Tgt Ion:165 Resp: 13428

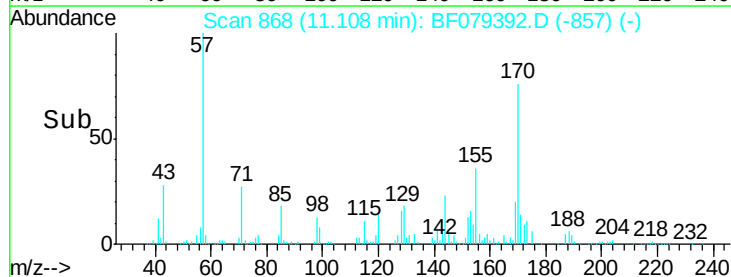
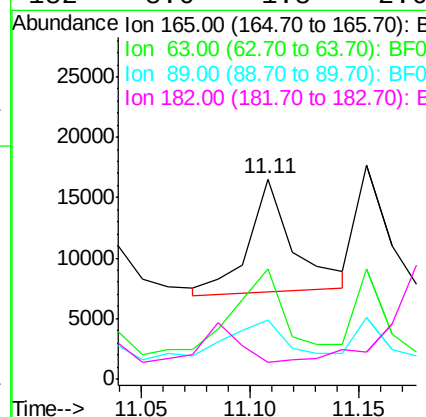
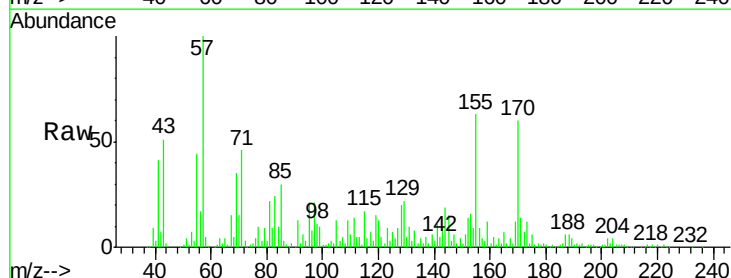
Ion Ratio Lower Upper

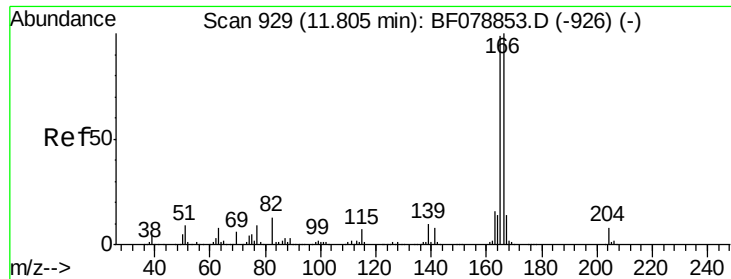
165 100

63 55.2 32.3 48.5#

89 29.5 54.6 81.8#

182 8.6 1.8 2.6#

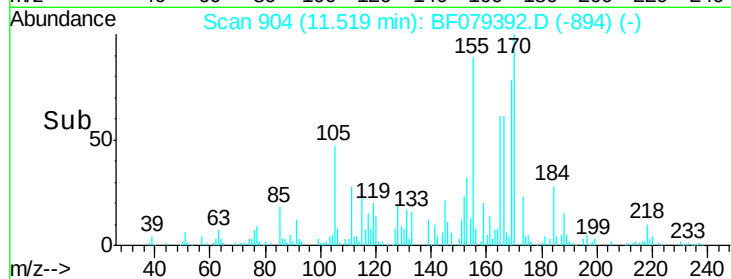
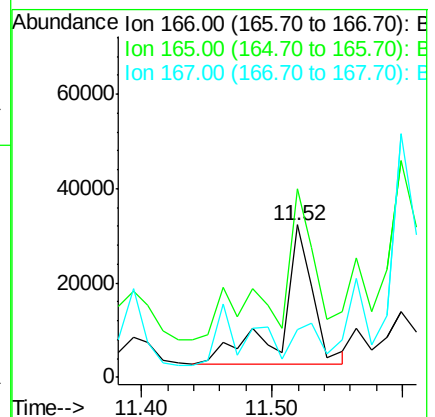
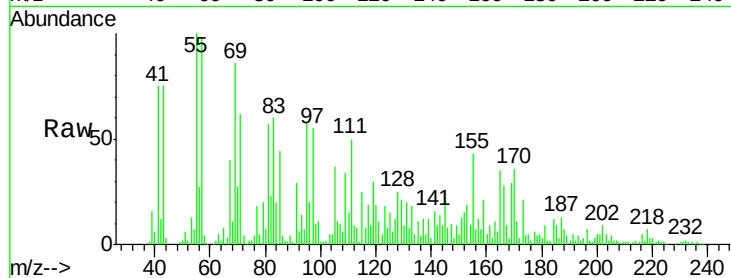




#57  
 Fluorene  
 Concen: 5.37 ng  
 RT: 11.52 min Scan# 904  
 Delta R.T. -0.00 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Instrument :  
 BNA\_F  
 ClientSampleId :  
 809B1

Tgt Ion:166 Resp: 49591  
 Ion Ratio Lower Upper  
 166 100  
 165 124.0 79.5 119.3#  
 167 31.1 11.0 16.6#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.69 min Scan# 1006  
 Delta R.T. 0.01 min  
 Lab File: BF079392.D  
 Acq: 20 May 2015 21:52

Tgt Ion:188 Resp: 252588  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 9.4 14.0  
 80 11.1 9.8 14.6

Ref

Raw

Sub

Ref

#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.87 ng  
RT: 11.62 min Scan# 913  
Delta R.T. 0.02 min  
Lab File: BF079392.D  
Acq: 20 May 2015 21:52

Instrument :  
BNA\_F  
ClientSampleId :  
809B1

Raw

Tgt Ion:198 Resp: 1465  
Ion Ratio Lower Upper  
198 100  
51 616.1 7.0 47.0#  
105 3877.4 13.7 53.7#

Sub