

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF051415\  
 Data File : BF079248.D  
 Acq On : 14 May 2015 23:12  
 Operator : TP/IZ  
 Sample : G2201-03DL 25X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUMP1DL

Quant Time: May 15 01:15:56 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 15 00:55:32 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.22  | 152  | 50888    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.80  | 136  | 202393   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.97 | 164  | 98047    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.82 | 188  | 199733   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 0.00  | 240  | 0        | 0.00  | ng    | -16.50   |
| 86) Perylene-d12          | 0.00  | 264  | 0        | 0.00  | ng    | -18.88   |

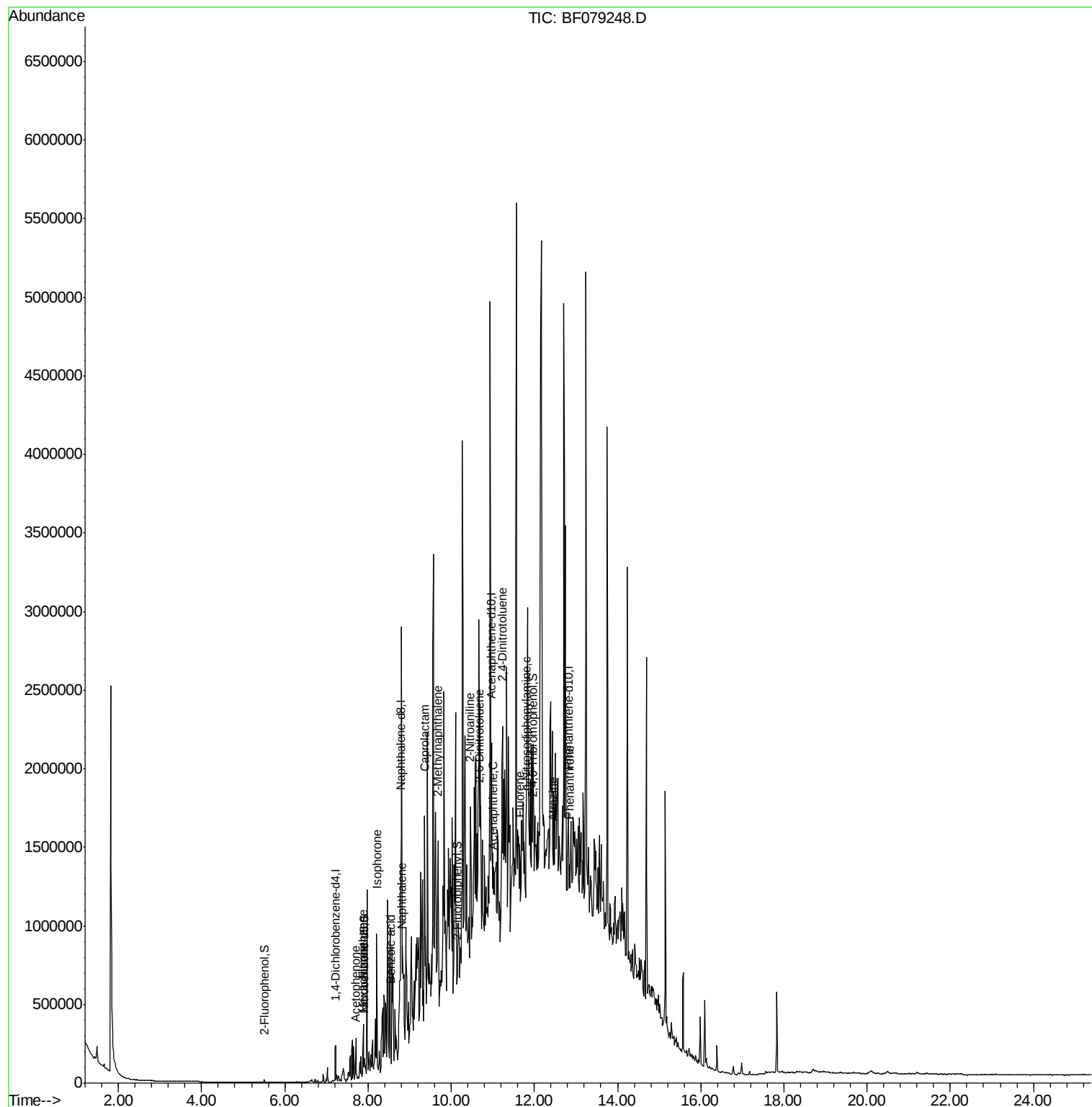
| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 5) 2-Fluorophenol           | 5.51  | 112  | 7502     | 2.54 | ng    | 0.00     |
| 7) Phenol-d6                | 6.79  | 99   | 6477     | 1.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.91  | 82   | 17565    | 4.99 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 11.95 | 330  | 5725     | 5.40 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.14 | 172  | 27939    | 3.97 | ng    | -0.01    |
| 78) Terphenyl-d14           | 0.00  | 244  | 0        | 0.00 | ng    |          |

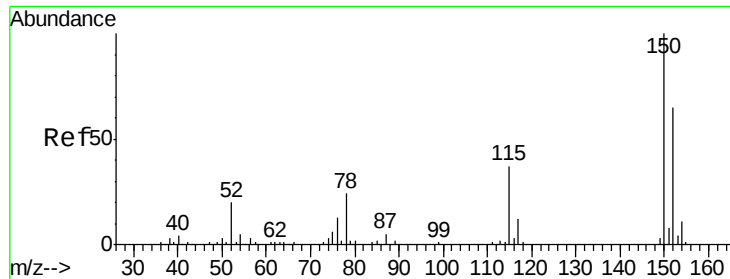
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 18) Hexachloroethane       | 7.87  | 117  | 17385    | 13.01 | ng    | # 12   |
| 22) Acetophenone           | 7.70  | 105  | 20522    | 4.49  | ng    | # 52   |
| 24) Nitrobenzene           | 7.88  | 77   | 8543     | 2.45  | ng    | # 23   |
| 25) Isophorone             | 8.20  | 82   | 15323    | 2.35  | ng    | # 1    |
| 31) Naphthalene            | 8.82  | 128  | 72670    | 7.54  | ng    | # 77   |
| 32) Benzoic acid           | 8.54  | 122  | 830      | 6.71  | ng    | # 1    |
| 35) Caprolactam            | 9.36  | 113  | 27065    | 32.56 | ng    | # 27   |
| 37) 2-Methylnaphthalene    | 9.68  | 142  | 245298   | 36.71 | ng    | # 99   |
| 47) 2-Nitroaniline         | 10.46 | 65   | 7791     | 4.42  | ng    | # 6    |
| 50) 2,6-Dinitrotoluene     | 10.68 | 165  | 5467     | 3.85  | ng    | # 78   |
| 51) Acenaphthene           | 11.02 | 154  | 15958    | 2.68  | ng    | # 88   |
| 56) 2,4-Dinitrotoluene     | 11.23 | 165  | 11447    | 6.10  | ng    | # 53   |
| 57) Fluorene               | 11.66 | 166  | 49010    | 6.94  | ng    | # 82   |
| 65) n-Nitrosodiphenylamine | 11.81 | 169  | 87985    | 13.23 | ng    | # 42   |
| 68) Atrazine               | 12.46 | 200  | 13517    | 6.99  | ng    | # 75   |
| 70) Phenanthrene           | 12.85 | 178  | 84687    | 7.58  | ng    | # 94   |

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

**Instrument :**  
BNA\_F  
**ClientSampleId :**  
SUMP1DL

Quant Time: May 15 01:15:56 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 15 00:55:32 2015  
Response via : Initial Calibration

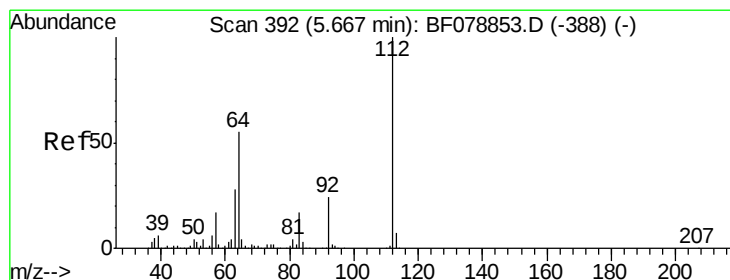
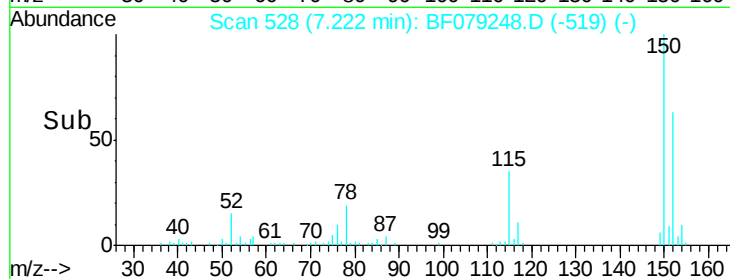
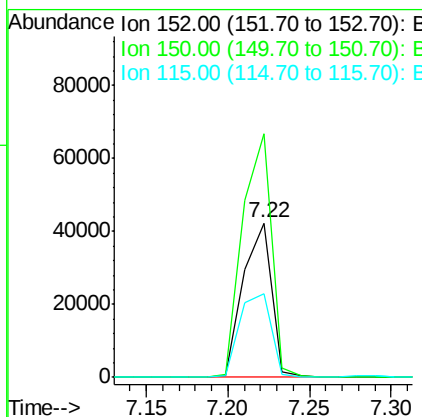
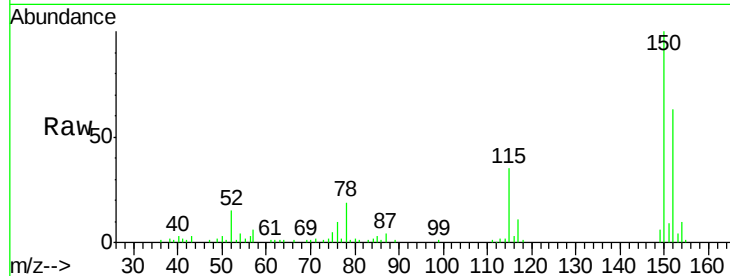




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.22 min Scan# 528  
 Delta R.T. -0.00 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

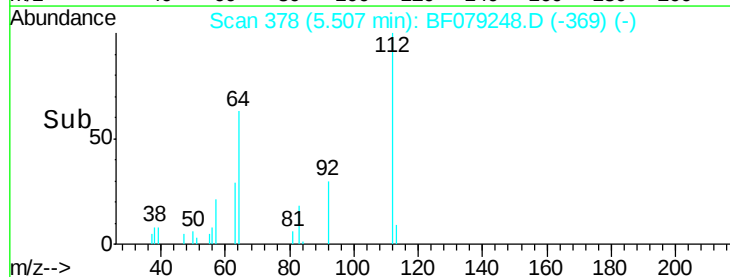
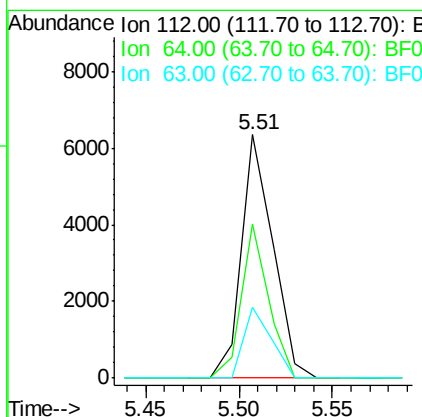
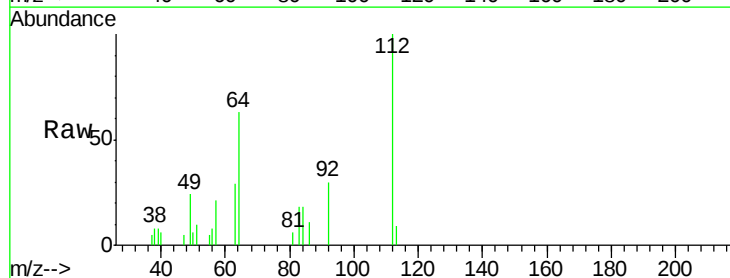
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUMP1DL

Tgt Ion:152 Resp: 50888  
 Ion Ratio Lower Upper  
 152 100  
 150 157.5 122.0 183.0  
 115 54.5 46.3 69.5



#5  
 2-Fluorophenol  
 Concen: 2.54 ng  
 RT: 5.51 min Scan# 378  
 Delta R.T. -0.00 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

Tgt Ion:112 Resp: 7502  
 Ion Ratio Lower Upper  
 112 100  
 64 63.0 53.5 80.3  
 63 29.2 27.5 41.3





#7

Phenol-d6

Concen: 1.66 ng

RT: 6.79 min Scan# 490

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

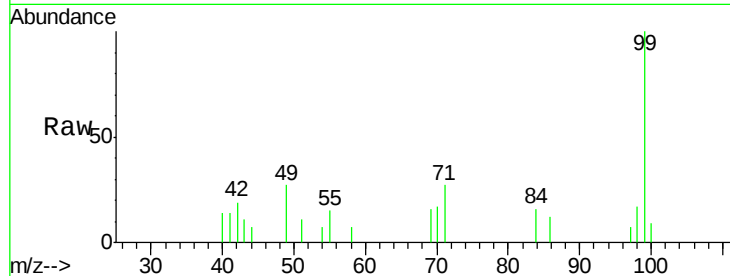
Tgt Ion: 99 Resp: 6477

Ion Ratio Lower Upper

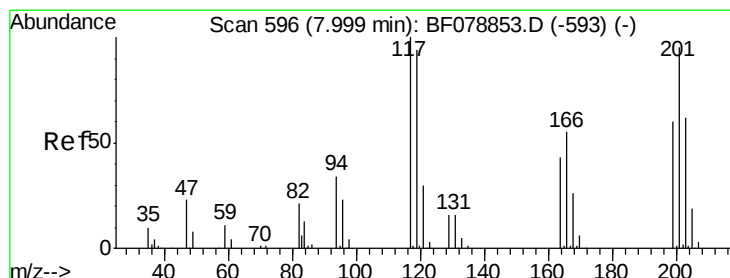
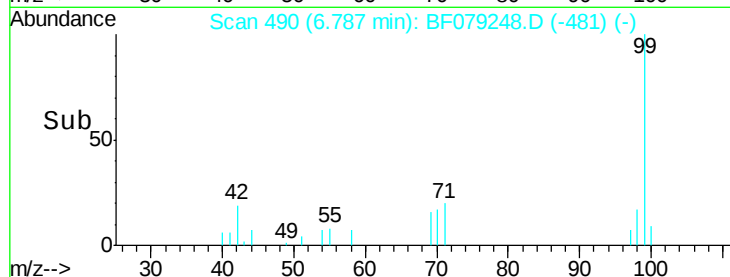
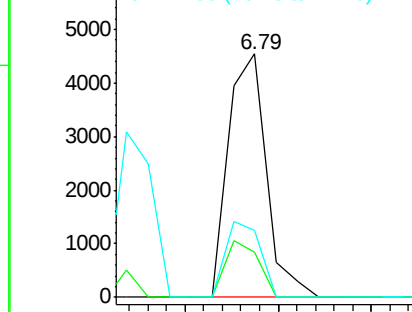
99 100

42 18.6 12.8 19.2

71 27.3 23.4 35.2



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



#18

Hexachloroethane

Concen: 13.01 ng

RT: 7.87 min Scan# 585

Delta R.T. 0.03 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

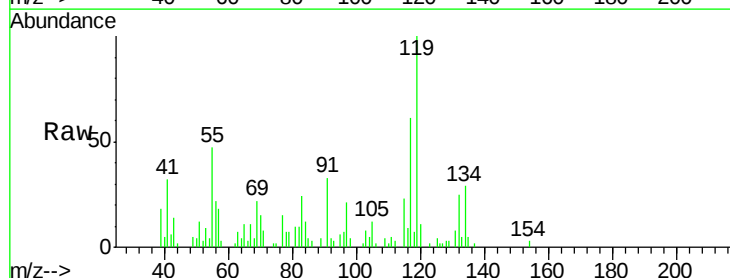
Tgt Ion: 117 Resp: 17385

Ion Ratio Lower Upper

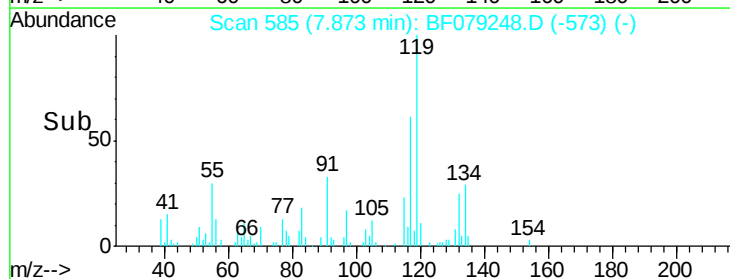
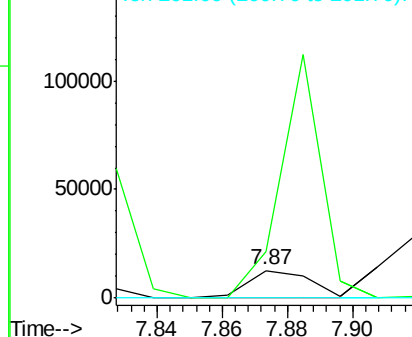
117 100

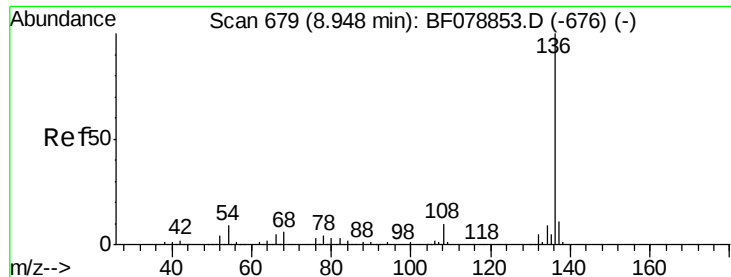
119 164.6 75.4 113.0#

201 0.0 83.2 124.8#



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

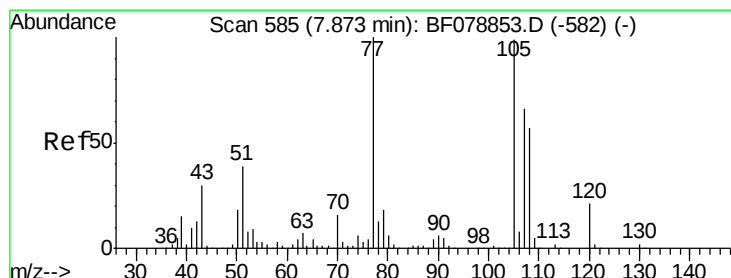
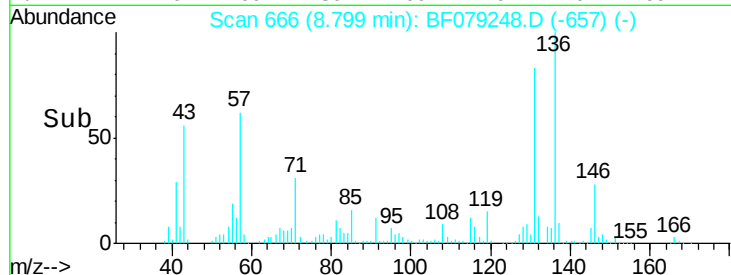
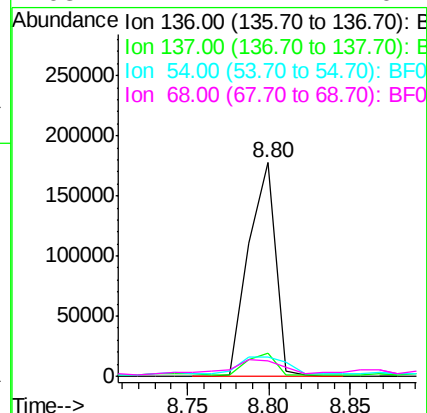
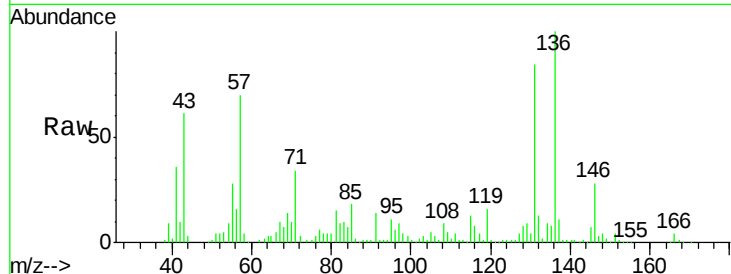




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.80 min Scan# 666  
Delta R.T. -0.00 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

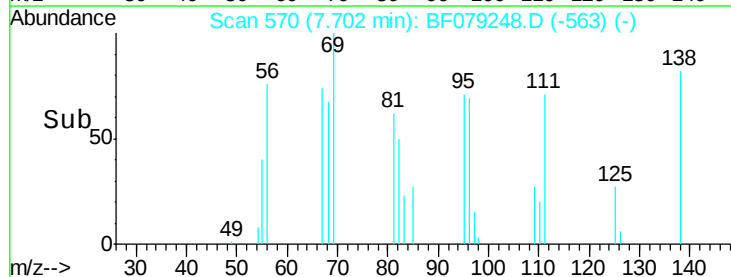
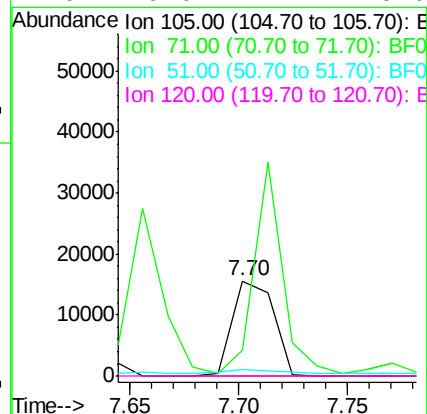
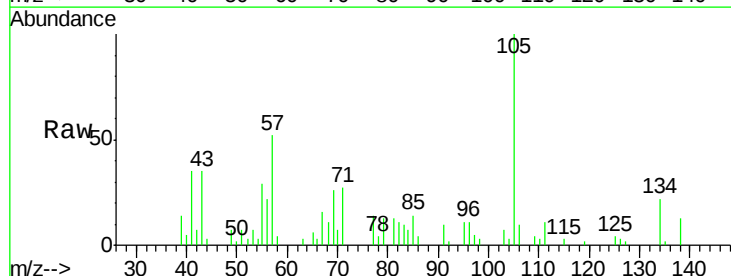
Instrument :  
BNA\_F  
ClientSampleId :  
SUMP1DL

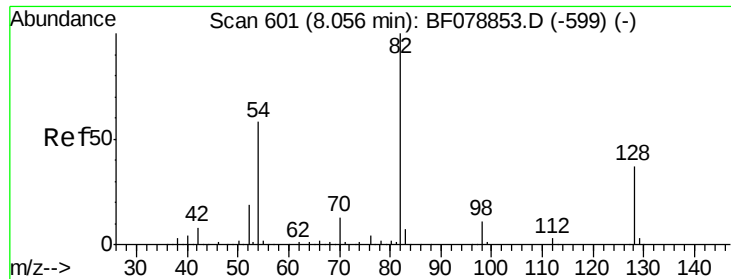
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 202393 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.7   | 13.1   |
| 54       | 9.0   | 5.8   | 8.8#   |
| 68       | 7.4   | 4.2   | 6.4#   |



#22  
Acetophenone  
Concen: 4.49 ng  
RT: 7.70 min Scan# 570  
Delta R.T. -0.02 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 20522 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 26.6  | 4.6   | 6.8#  |
| 51       | 6.7   | 26.7  | 40.1# |
| 120      | 0.0   | 17.4  | 26.0# |

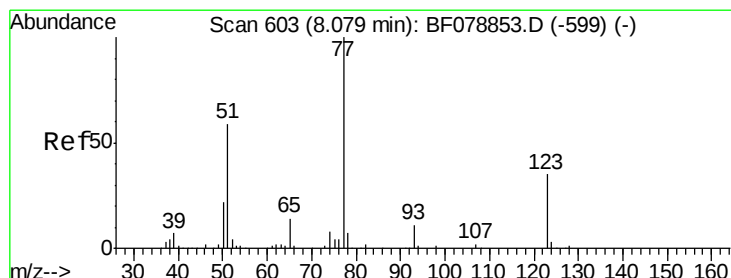
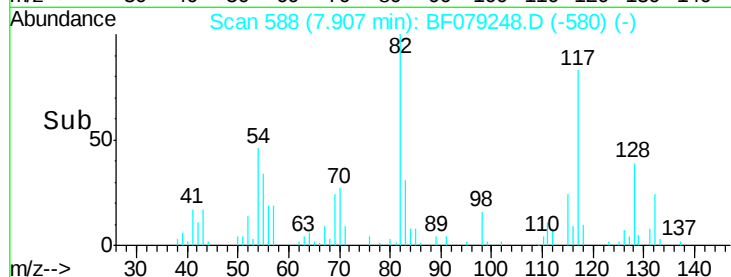
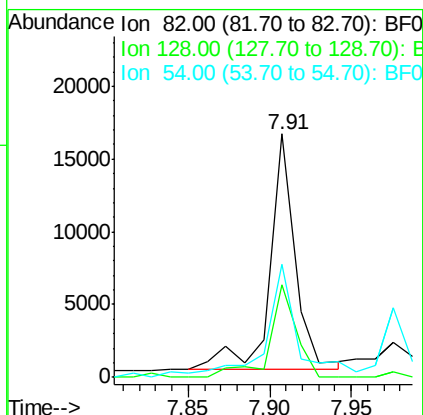
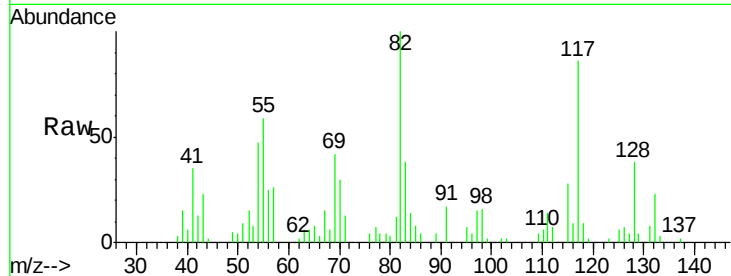




#23  
Nitrobenzene-d5  
Concen: 4.99 ng  
RT: 7.91 min Scan# 588  
Delta R.T. -0.01 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

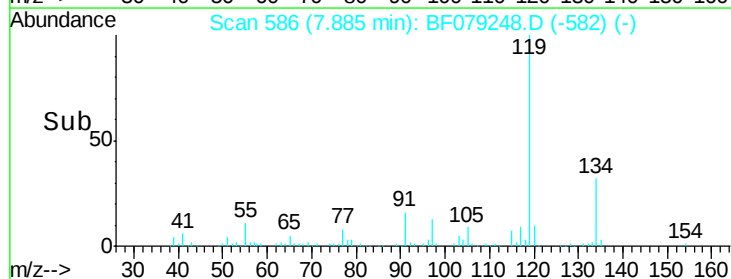
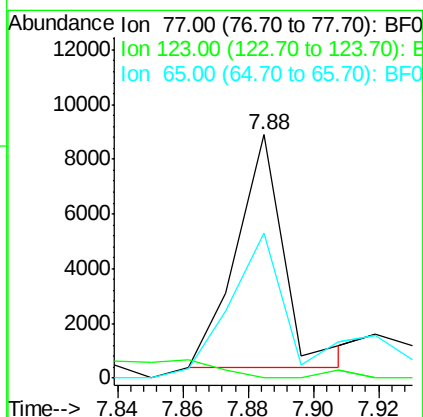
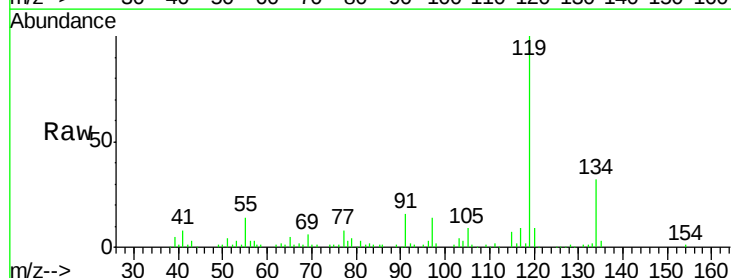
Instrument :  
BNA\_F  
ClientSampleId :  
SUMP1DL

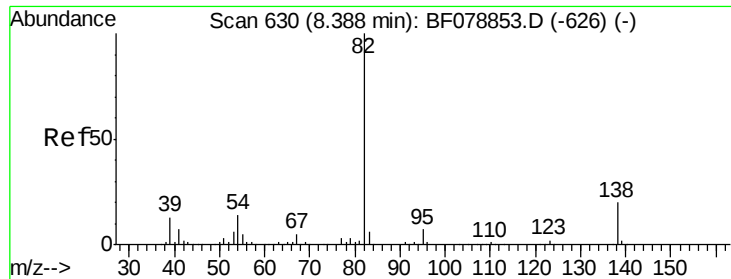
Tgt Ion: 82 Resp: 17565  
Ion Ratio Lower Upper  
82 100  
128 38.1 30.0 45.0  
54 46.6 46.4 69.6



#24  
Nitrobenzene  
Concen: 2.45 ng  
RT: 7.88 min Scan# 586  
Delta R.T. -0.06 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

Tgt Ion: 77 Resp: 8543  
Ion Ratio Lower Upper  
77 100  
123 0.0 31.8 47.8#  
65 59.4 10.6 15.8#





#25

Isophorone

Concen: 2.35 ng

RT: 8.20 min Scan# 614

Delta R.T. -0.03 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

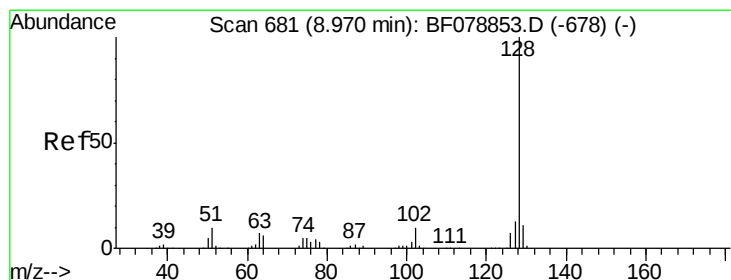
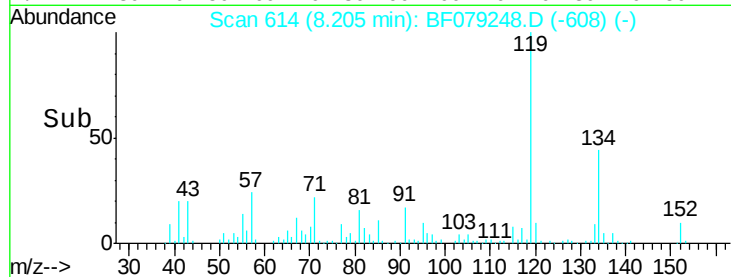
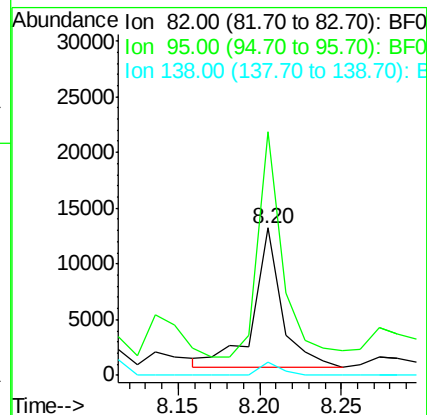
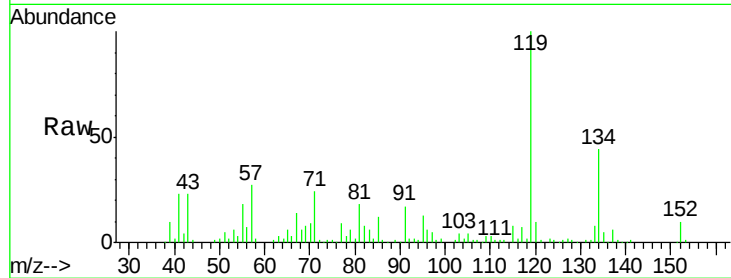
Tgt Ion: 82 Resp: 15323

Ion Ratio Lower Upper

82 100

95 165.2 5.3 7.9#

138 8.6 12.0 18.0#



#31

Naphthalene

Concen: 7.54 ng

RT: 8.82 min Scan# 668

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

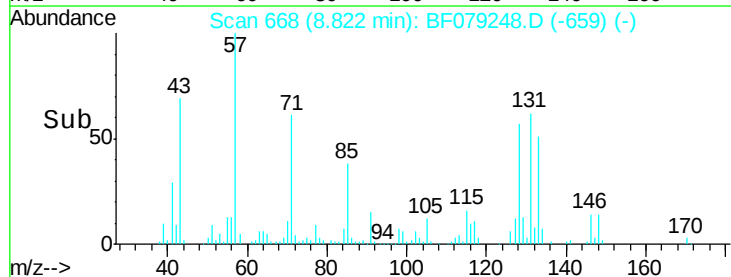
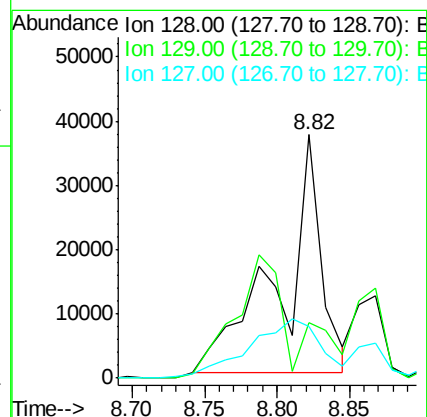
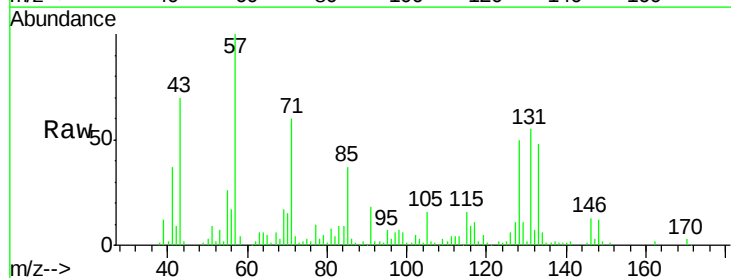
Tgt Ion: 128 Resp: 72670

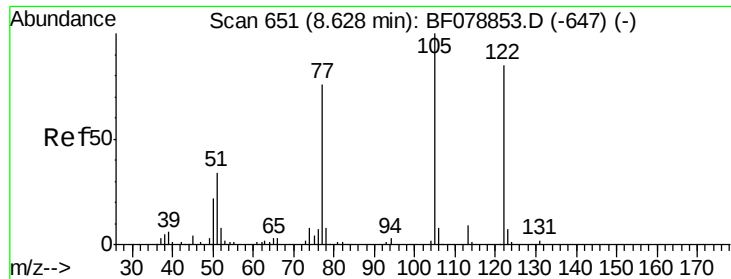
Ion Ratio Lower Upper

128 100

129 22.6 9.3 13.9#

127 21.0 10.7 16.1#

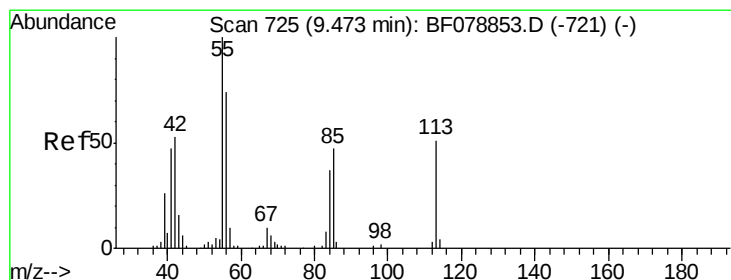
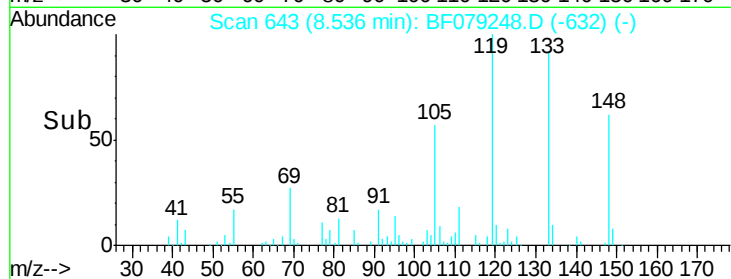
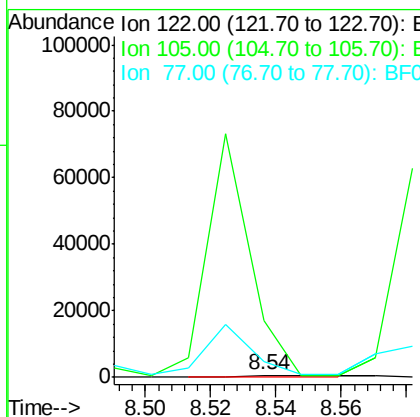
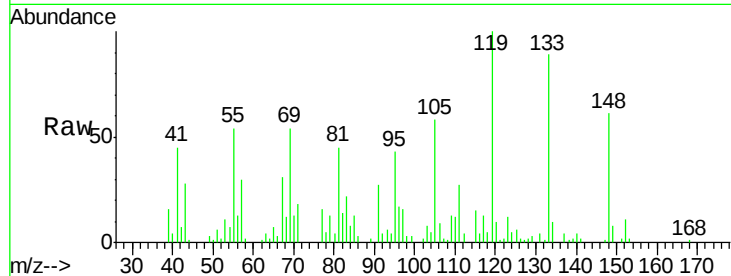




#32  
Benzoic acid  
Concen: 6.71 ng  
RT: 8.54 min Scan# 643  
Delta R.T. 0.02 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

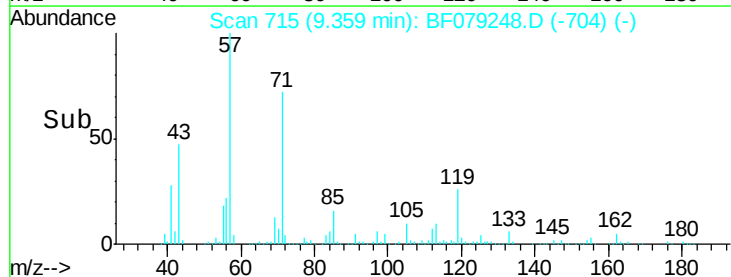
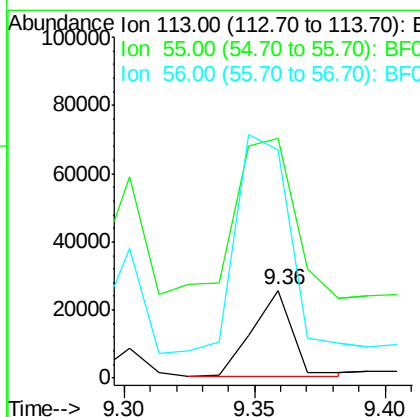
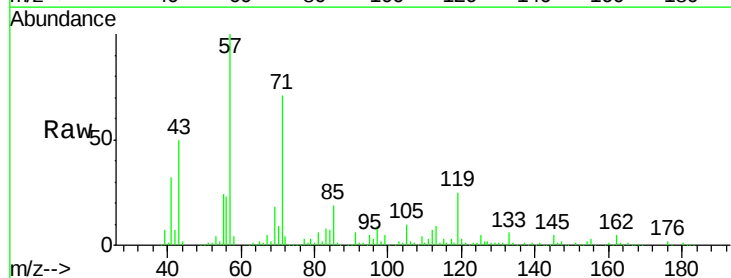
Instrument :  
BNA\_F  
ClientSampleId :  
SUMP1DL

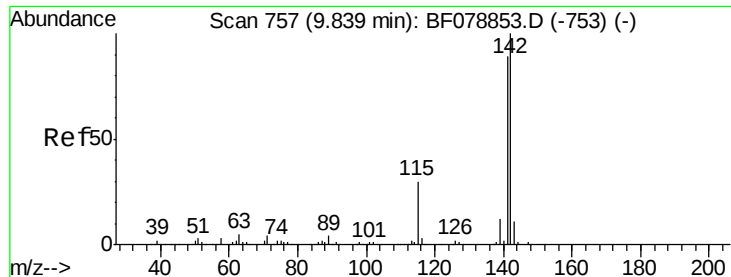
Tgt Ion:122 Resp: 830  
Ion Ratio Lower Upper  
122 100  
105 3423.1 107.1 147.1#  
77 974.5 73.9 113.9#



#35  
Caprolactam  
Concen: 32.56 ng  
RT: 9.36 min Scan# 715  
Delta R.T. 0.02 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

Tgt Ion:113 Resp: 27065  
Ion Ratio Lower Upper  
113 100  
55 272.7 169.7 209.7#  
56 259.8 122.5 162.5#

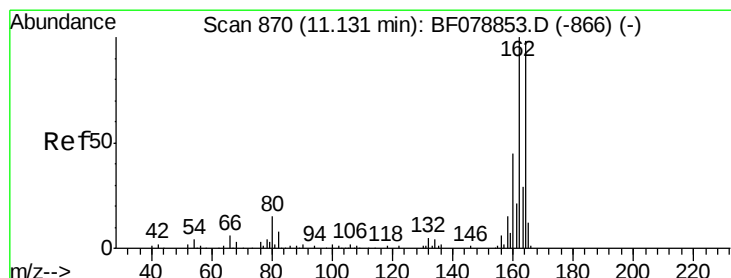
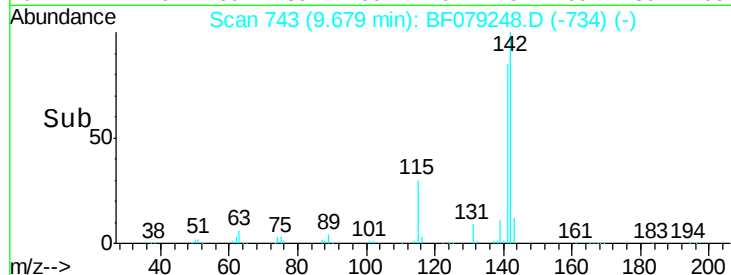
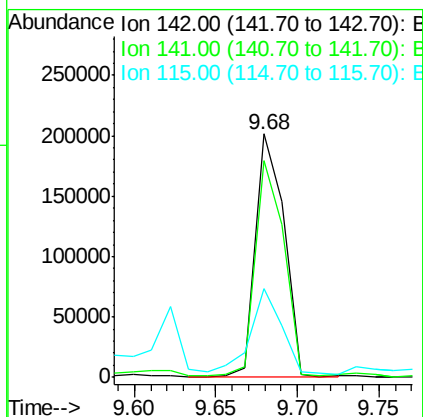
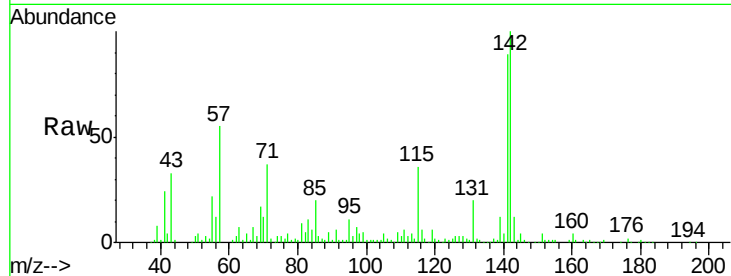




#37  
 2-Methylnaphthalene  
 Concen: 36.71 ng  
 RT: 9.68 min Scan# 743  
 Delta R.T. -0.00 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

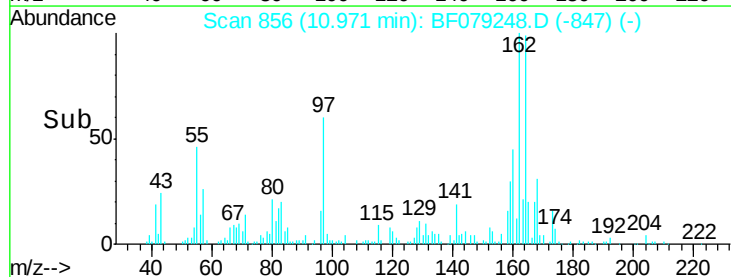
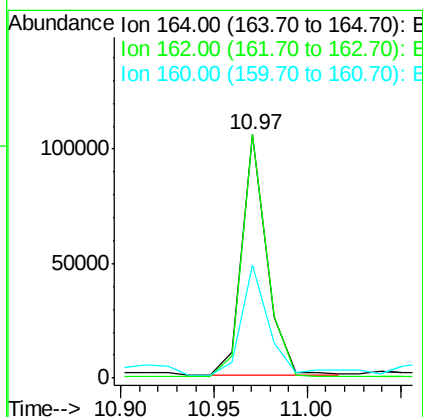
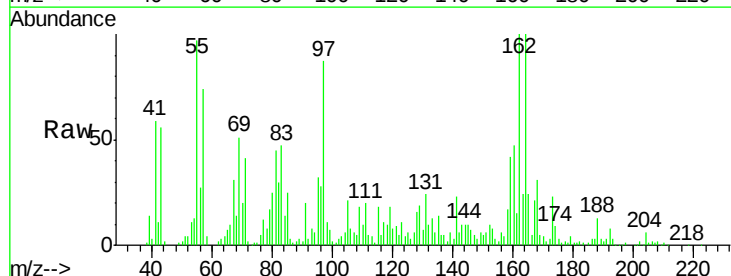
Instrument :  
 BNA\_F  
 ClientSampleID :  
 SUMP1DL

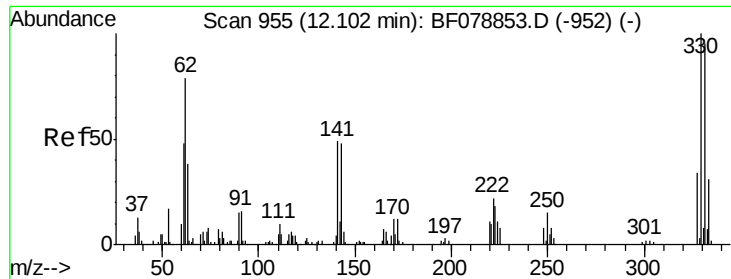
Tgt Ion:142 Resp: 245298  
 Ion Ratio Lower Upper  
 142 100  
 141 89.0 70.9 106.3  
 115 36.3 28.5 42.7



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.97 min Scan# 856  
 Delta R.T. -0.00 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

Tgt Ion:164 Resp: 98047  
 Ion Ratio Lower Upper  
 164 100  
 162 100.0 82.7 124.1  
 160 46.7 35.8 53.8

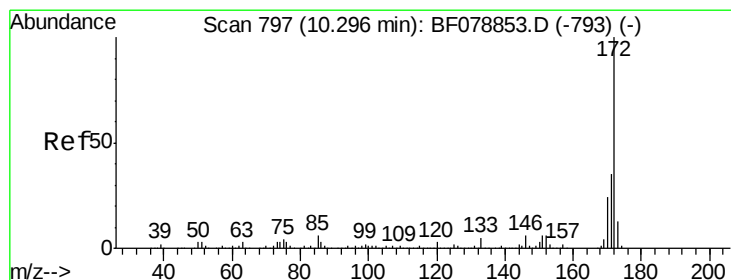
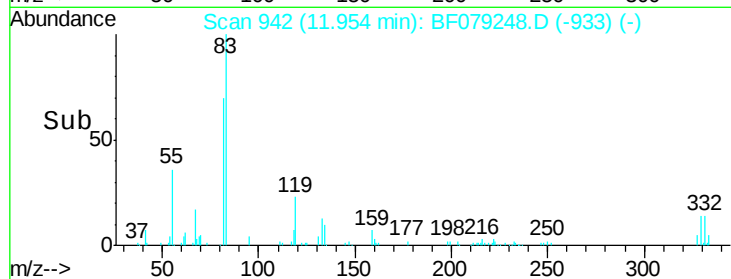
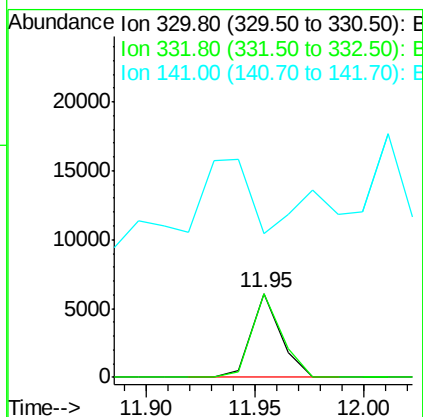
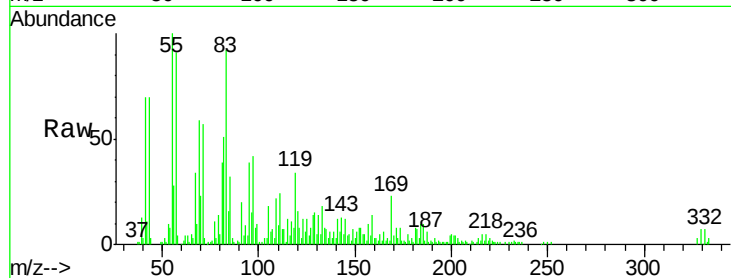




#41  
 2,4,6-Tribromophenol  
 Concen: 5.40 ng  
 RT: 11.95 min Scan# 942  
 Delta R.T. -0.00 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

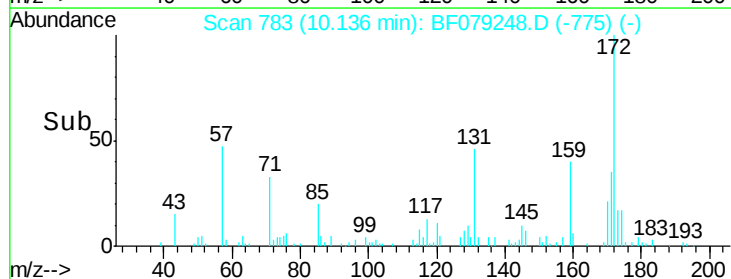
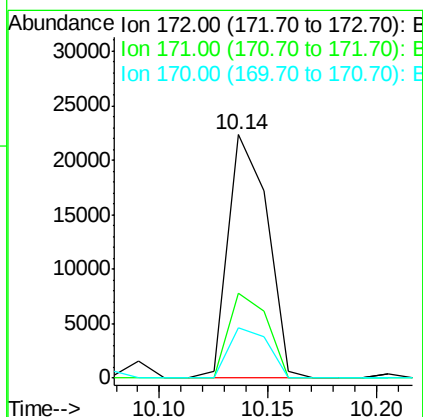
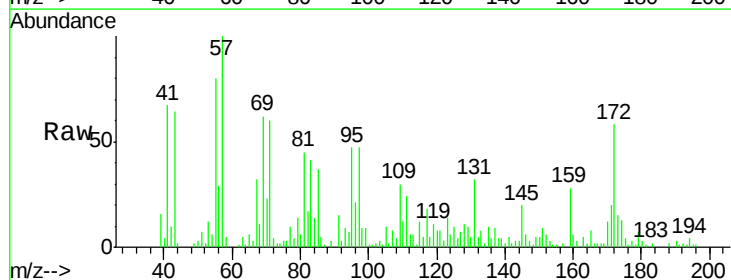
Instrument :  
 BNA\_F  
 ClientSampled :  
 SUMP1DL

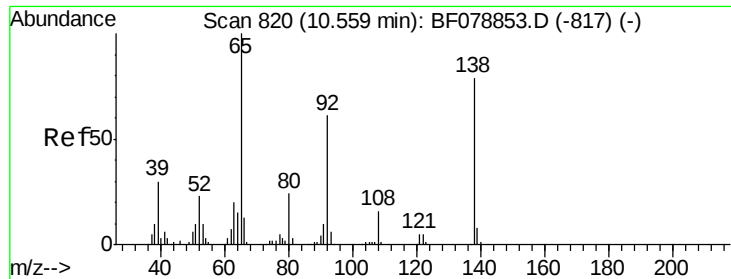
Tgt Ion:330 Resp: 5725  
 Ion Ratio Lower Upper  
 330 100  
 332 102.0 0.0 0.0#  
 141 110.4 0.0 0.0#



#44  
 2-Fluorobiphenyl  
 Concen: 3.97 ng  
 RT: 10.14 min Scan# 783  
 Delta R.T. -0.01 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

Tgt Ion:172 Resp: 27939  
 Ion Ratio Lower Upper  
 172 100  
 171 35.0 27.9 41.9  
 170 20.8 19.4 29.0

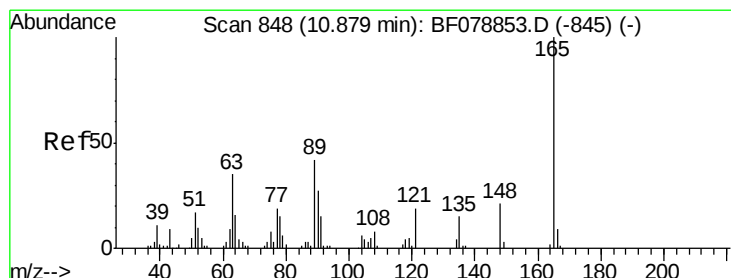
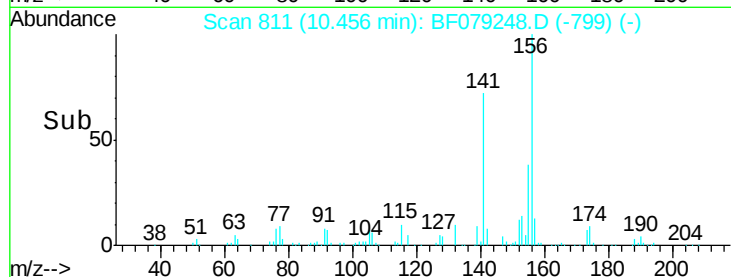
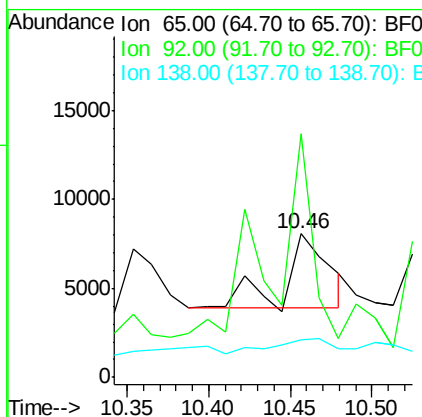
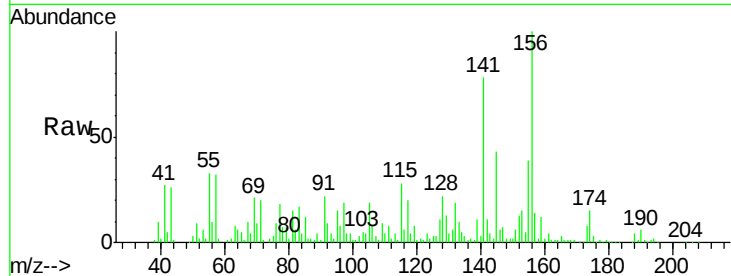




#47  
2-Nitroaniline  
Concen: 4.42 ng  
RT: 10.46 min Scan# 811  
Delta R.T. 0.03 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

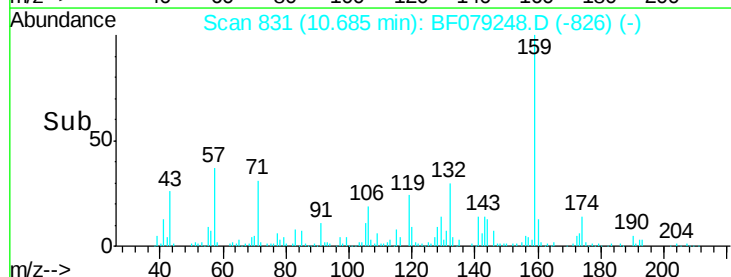
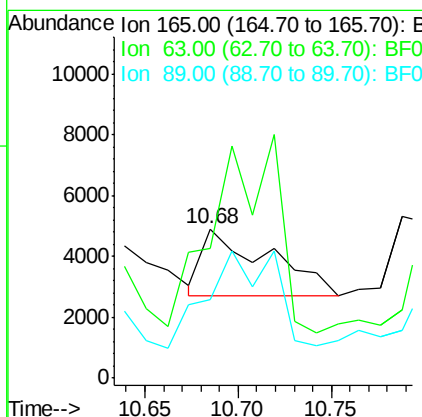
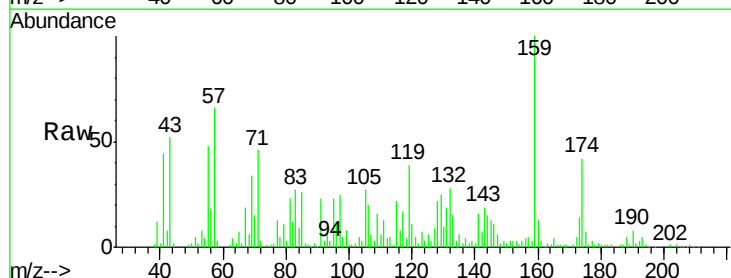
Instrument :  
BNA\_F  
ClientSampleId :  
SUMP1DL

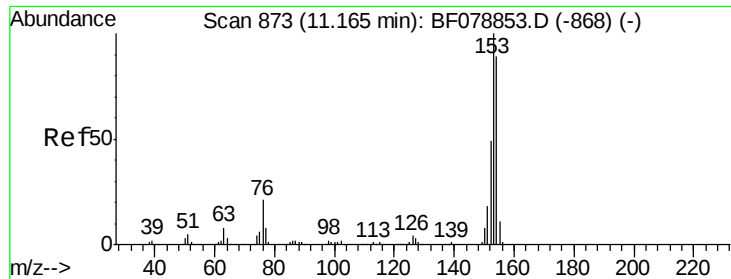
Tgt Ion: 65 Resp: 7791  
Ion Ratio Lower Upper  
65 100  
92 169.8 54.0 81.0#  
138 26.1 75.0 112.6#



#50  
2,6-Dinitrotoluene  
Concen: 3.85 ng  
RT: 10.68 min Scan# 831  
Delta R.T. -0.05 min  
Lab File: BF079248.D  
Acq: 14 May 2015 23:12

Tgt Ion: 165 Resp: 5467  
Ion Ratio Lower Upper  
165 100  
63 86.8 54.4 81.6#  
89 52.4 55.7 83.5#





#51

Acenaphthene

Concen: 2.68 ng

RT: 11.02 min Scan# 860

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

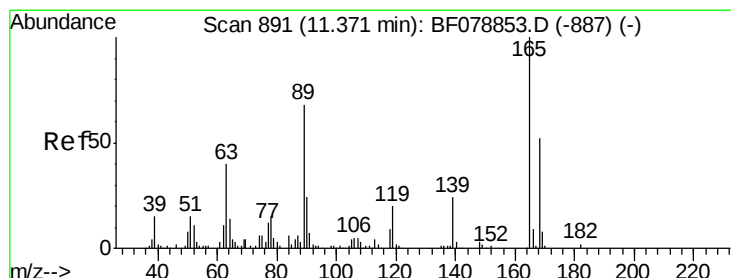
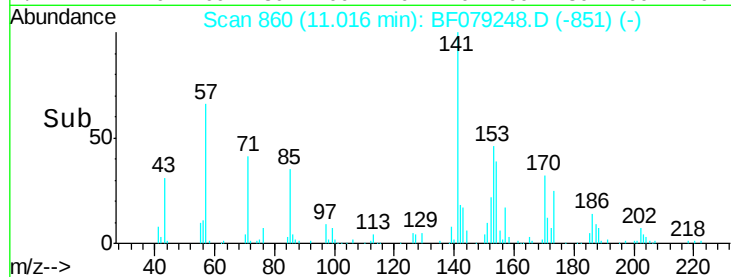
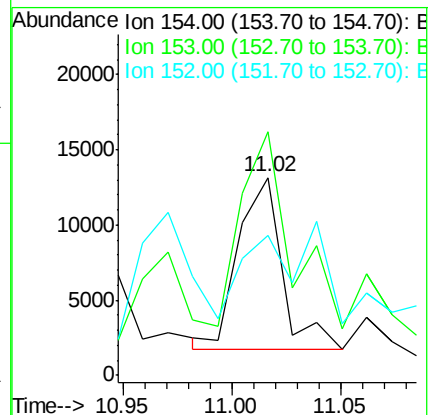
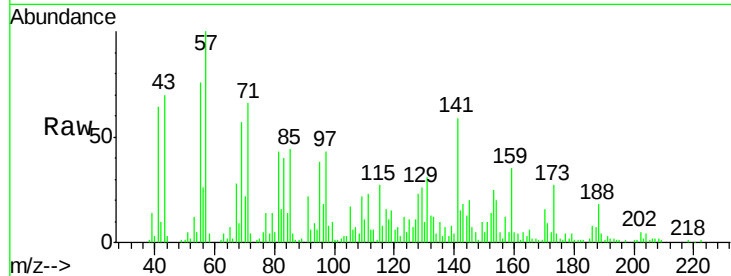
Tgt Ion:154 Resp: 15958

Ion Ratio Lower Upper

154 100

153 123.2 91.5 137.3

152 70.7 44.2 66.4#



#56

2,4-Dinitrotoluene

Concen: 6.10 ng

RT: 11.23 min Scan# 879

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Tgt Ion:165 Resp: 11447

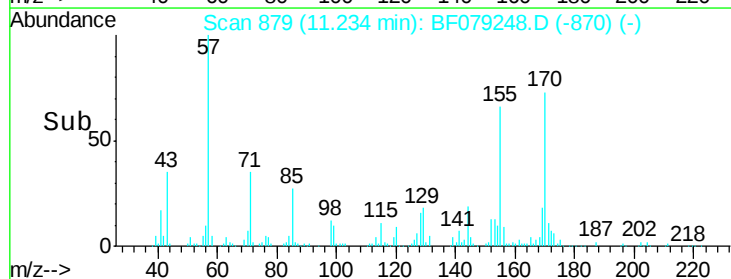
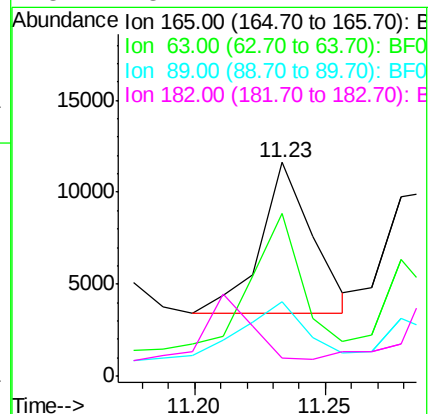
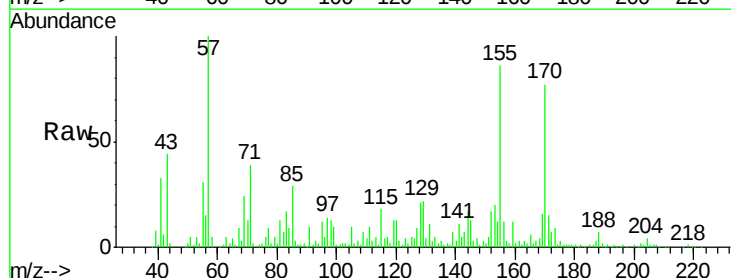
Ion Ratio Lower Upper

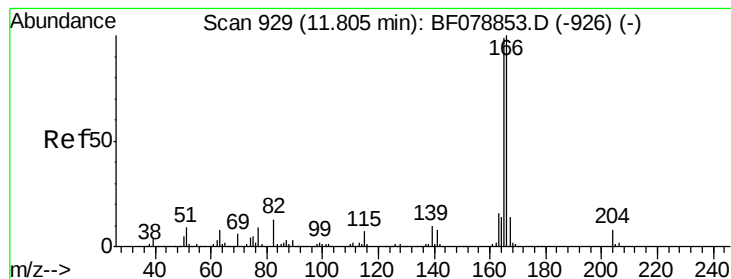
165 100

63 76.3 51.2 76.8

89 34.7 82.7 124.1#

182 8.7 1.4 2.2#





#57

Fluorene

Concen: 6.94 ng

RT: 11.66 min Scan# 916

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

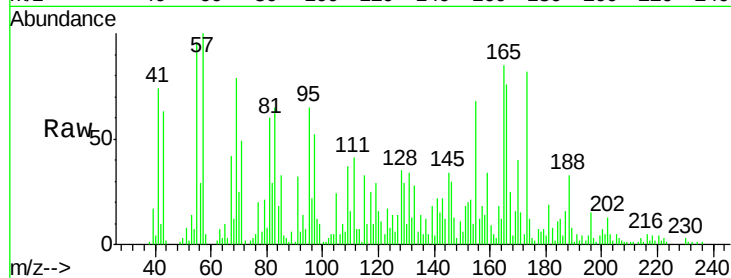
Tgt Ion:166 Resp: 49010

Ion Ratio Lower Upper

166 100

165 111.7 78.5 117.7

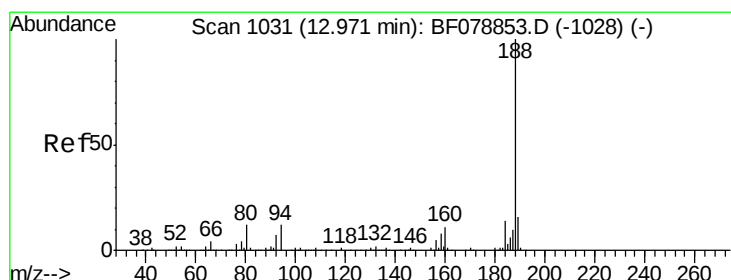
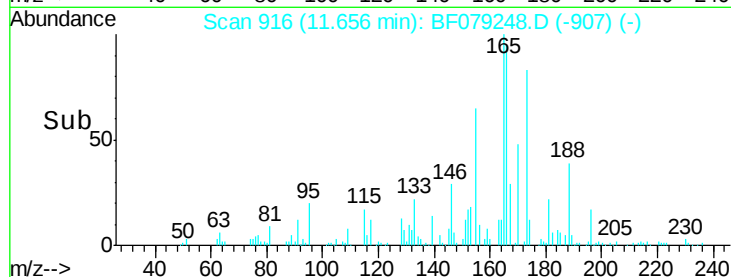
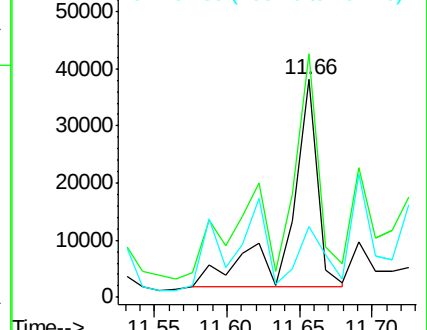
167 32.3 11.0 16.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.82 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

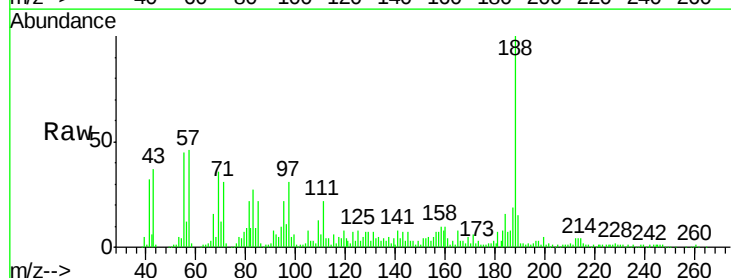
Tgt Ion:188 Resp: 199733

Ion Ratio Lower Upper

188 100

94 9.6 8.2 12.2

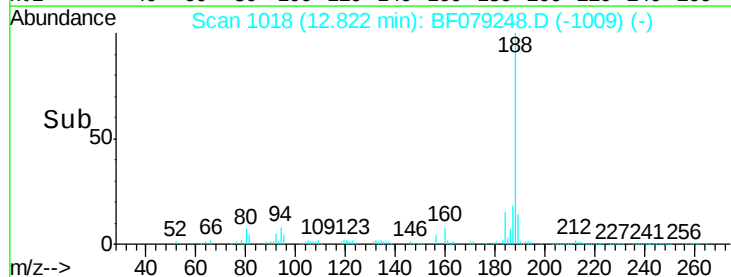
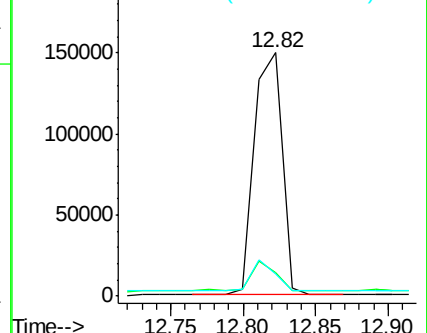
80 9.2 8.9 13.3

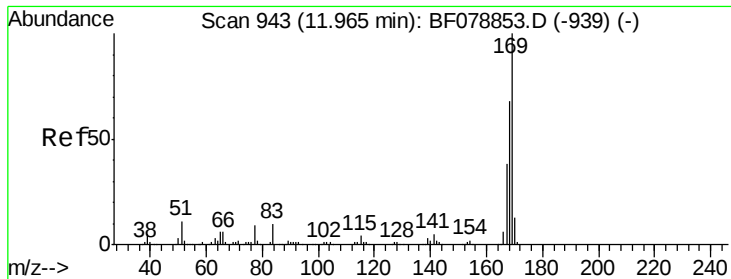


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#65

n-Nitrosodiphenylamine

Concen: 13.23 ng

RT: 11.81 min Scan# 929

Delta R.T. -0.01 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

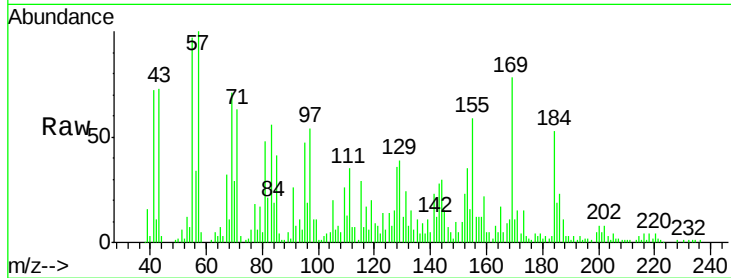
Tgt Ion:169 Resp: 87985

Ion Ratio Lower Upper

169 100

168 14.0 54.6 82.0#

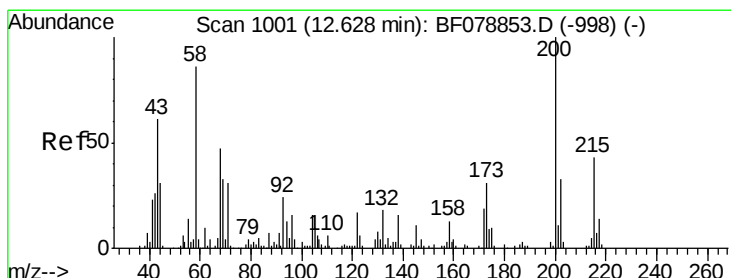
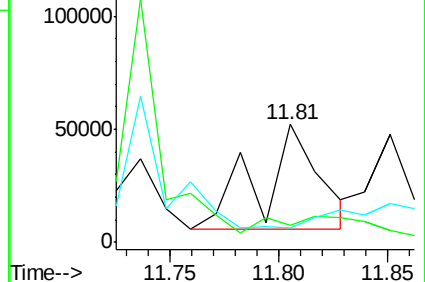
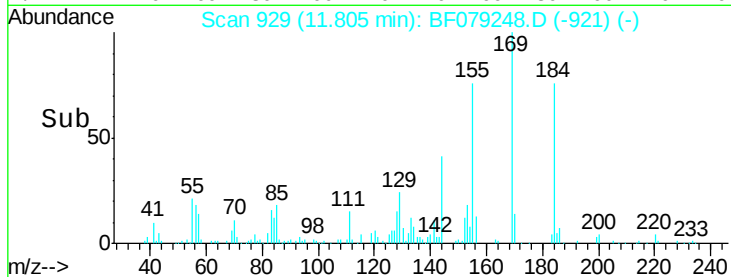
167 12.1 30.6 45.8#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#68

Atrazine

Concen: 6.99 ng

RT: 12.46 min Scan# 986

Delta R.T. -0.03 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

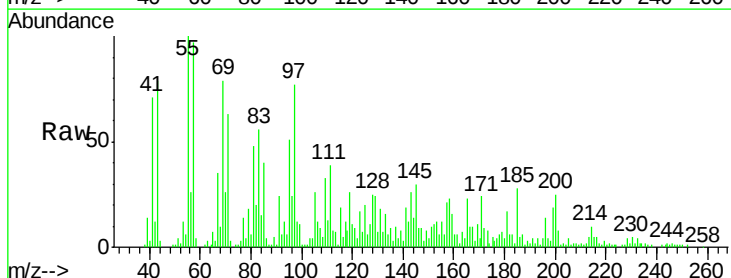
Tgt Ion:200 Resp: 13517

Ion Ratio Lower Upper

200 100

173 32.3 8.1 48.1

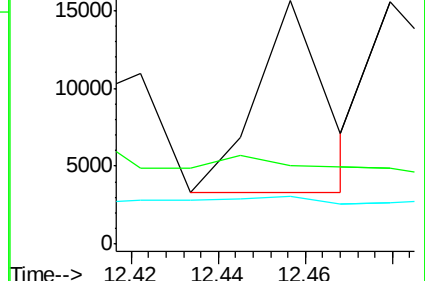
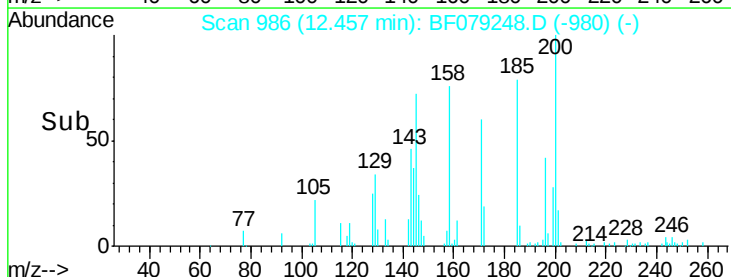
215 19.4 22.9 62.9#

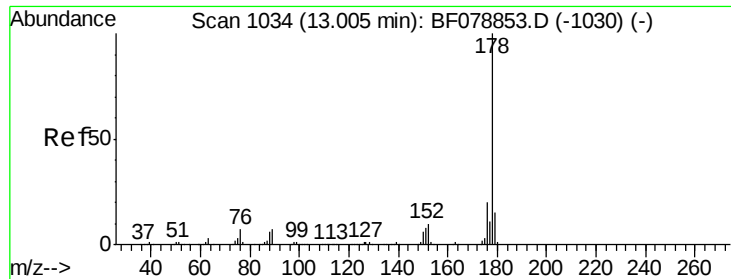


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#70

Phenanthrene

Concen: 7.58 ng

RT: 12.85 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

Instrument :

BNA\_F

ClientSampleId :

SUMP1DL

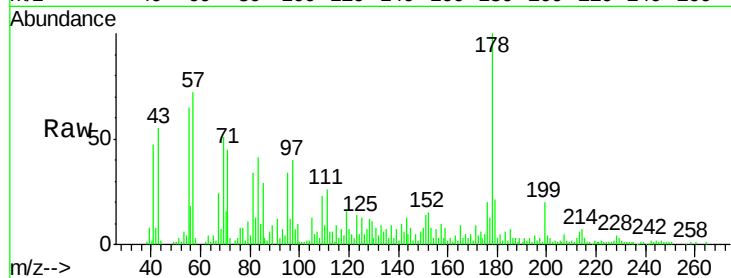
Tgt Ion:178 Resp: 84687

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

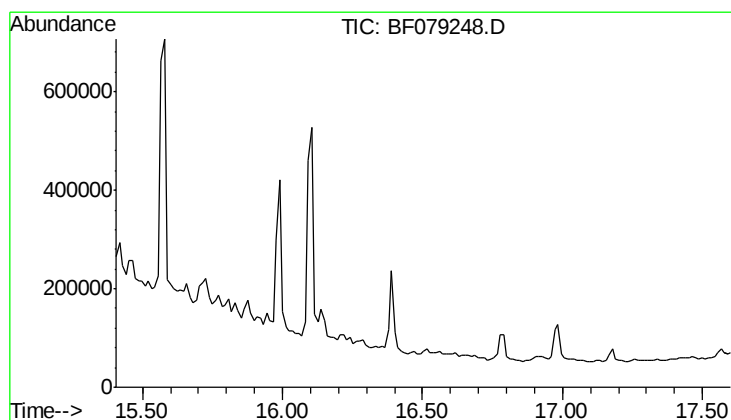
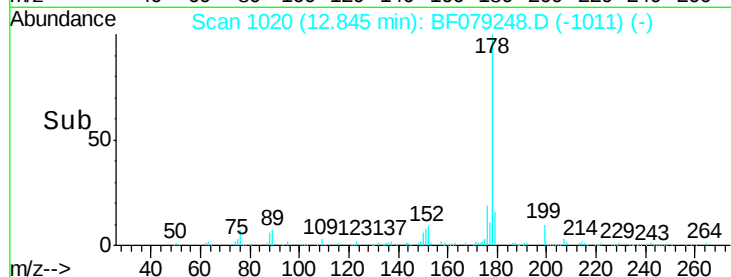
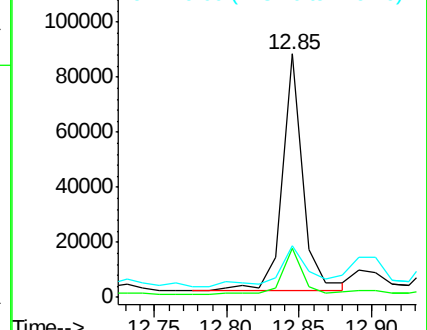
179 21.0 12.5 18.7#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Chrysene-d12

Concen: 0.00 ng

Expected RT: 16.50 min

Lab File: BF079248.D

Acq: 14 May 2015 23:12

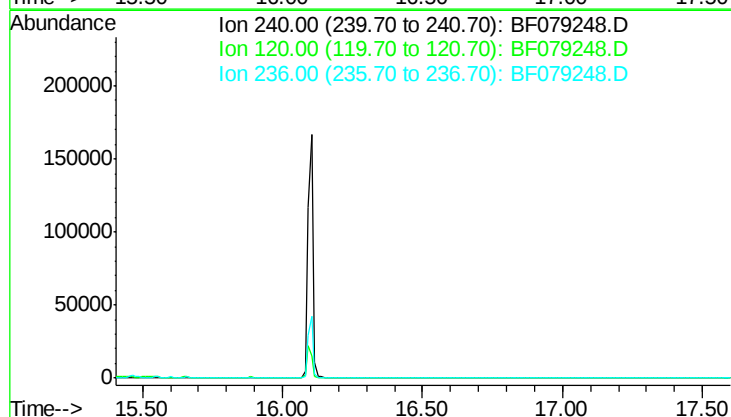
Tgt Ion: 240

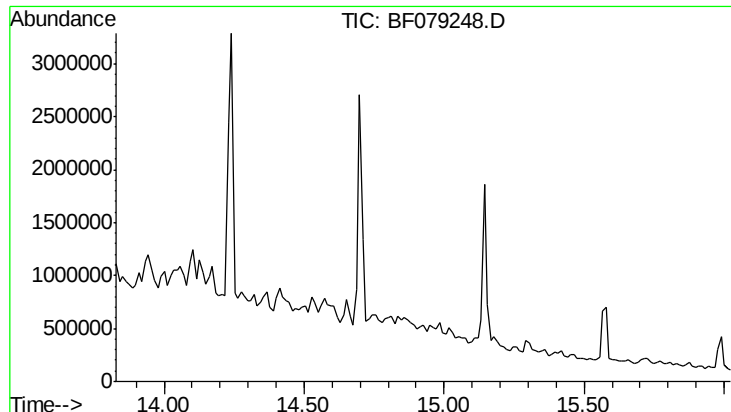
Sig Exp Ratio

240 100

120 12.1

236 25.3

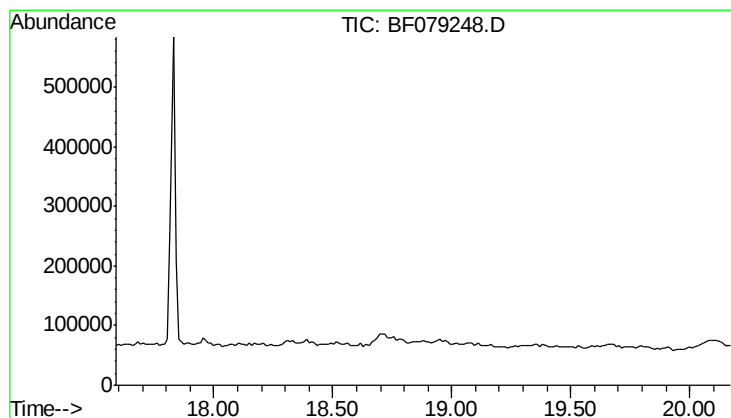
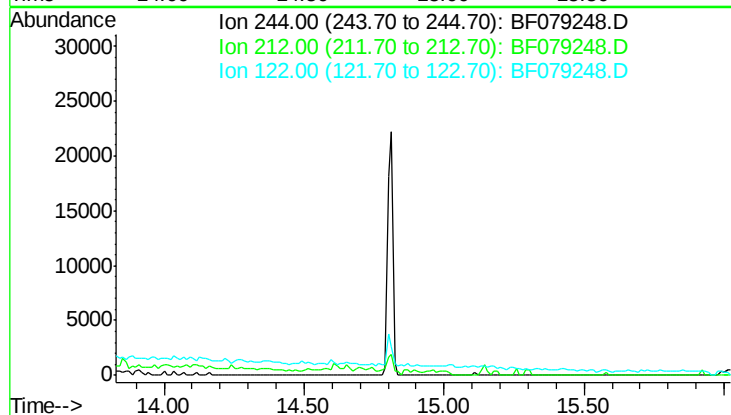




#78  
 Terphenyl-d14  
 Concen: 0.00 ng  
 Expected RT: 14.93 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SUMP1DL

Tgt Ion: 244  
 Sig Exp Ratio  
 244 100  
 212 7.0  
 122 12.9



#86  
 Perylene-d12  
 Concen: 0.00 ng  
 Expected RT: 18.88 min  
 Lab File: BF079248.D  
 Acq: 14 May 2015 23:12

Tgt Ion: 264  
 Sig Exp Ratio  
 264 100  
 260 24.3  
 265 22.9

