

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF042915\  
 Data File : BF078811.D  
 Acq On : 29 Apr 2015 14:12  
 Operator : TP/IZ  
 Sample : G2018-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0433

Quant Time: Apr 30 01:12:40 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF042815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 30 00:55:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 77905    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.96  | 136  | 321536   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.14 | 164  | 195763   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.99 | 188  | 284690   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 16.29 | 240  | 294291   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 18.07 | 264  | 310357   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.68  | 112  | 267576   | 63.08  | ng    | 0.00     |
| 7) Phenol-d6                | 6.92  | 99   | 218401   | 38.55  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.07  | 82   | 452196   | 101.26 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.12 | 330  | 226907   | 117.13 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.31 | 172  | 906249   | 63.40  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.98 | 244  | 833760   | 67.47  | ng    | 0.00     |

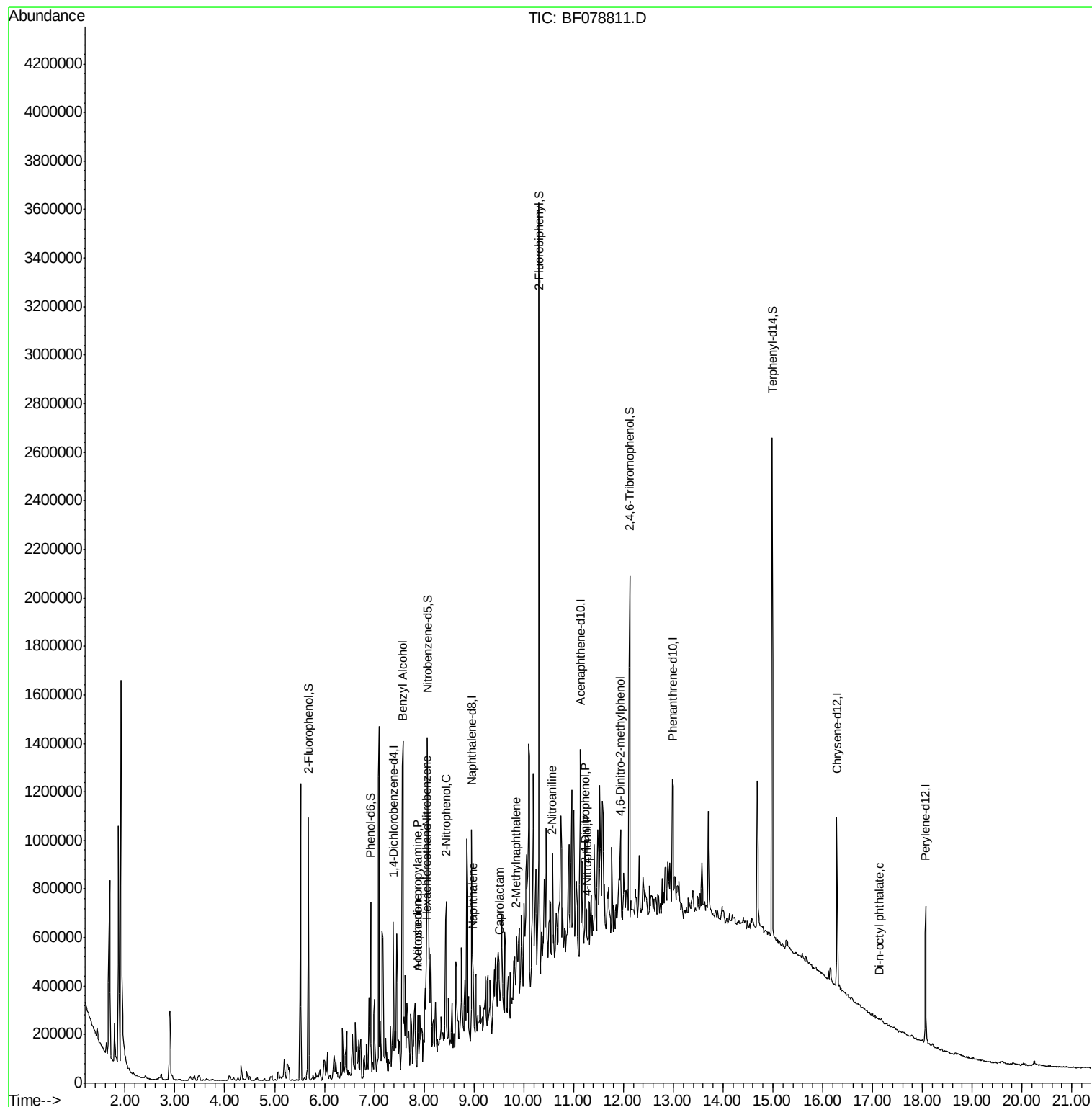
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 15) Benzyl Alcohol             | 7.56  | 79   | 10823    | 2.56      | ng    | # 55   |
| 18) Hexachloroethane           | 8.04  | 117  | 21031    | 10.99     | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.87  | 70   | 19812    | 5.01      | ng    | # 91   |
| 22) Acetophenone               | 7.87  | 105  | 27027    | 3.79      | ng    | # 60   |
| 24) Nitrobenzene               | 8.06  | 77   | 31938    | 6.68      | ng    | # 55   |
| 26) 2-Nitrophenol              | 8.44  | 139  | 2687     | 8.23      | ng    | # 1    |
| 31) Naphthalene                | 8.98  | 128  | 125318   | 8.21      | ng    | # 99   |
| 35) Caprolactam                | 9.51  | 113  | 5133     | 4.21      | ng    | # 1    |
| 37) 2-Methylnaphthalene        | 9.85  | 142  | 30076    | 2.93      | ng    | # 95   |
| 47) 2-Nitroaniline             | 10.57 | 65   | 12217    | 4.56      | ng    | # 32   |
| 53) 2,4-Dinitrophenol          | 11.24 | 184  | 631      | 6.17      | ng    | # 1    |
| 55) 4-Nitrophenol              | 11.28 | 139  | 418      | 6.71      | ng    | # 1    |
| 61) 4-Nitroaniline             | 11.85 | 138  | 592      | Below Cal |       | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 11.93 | 198  | 538      | 2.09      | ng    | # 1    |
| 69) Pentachlorophenol          | 12.75 | 266  | 579      | Below Cal |       | # 18   |
| 84) Di-n-octyl phthalate       | 17.14 | 149  | 1318     | 7.01      | ng    | # 100  |

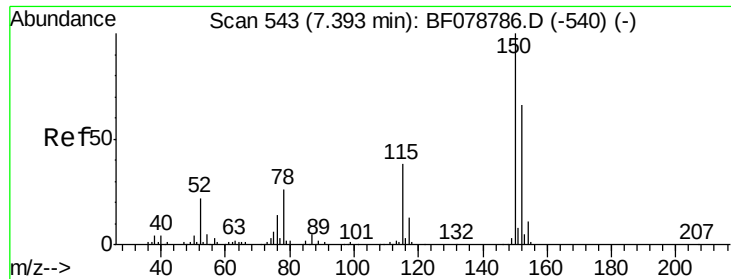
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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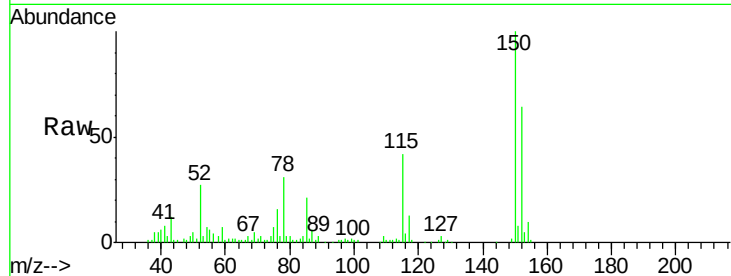


#1

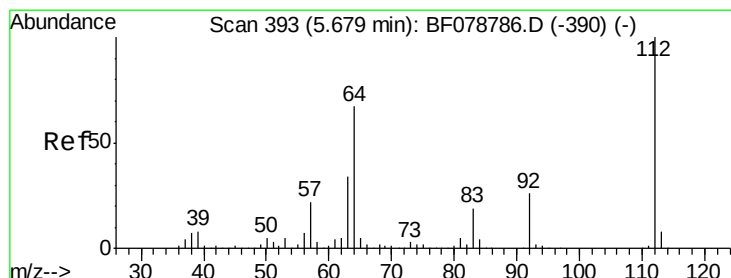
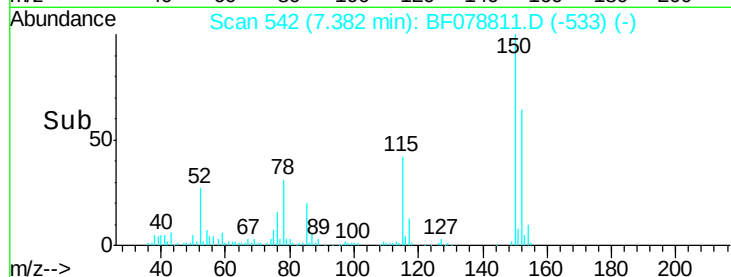
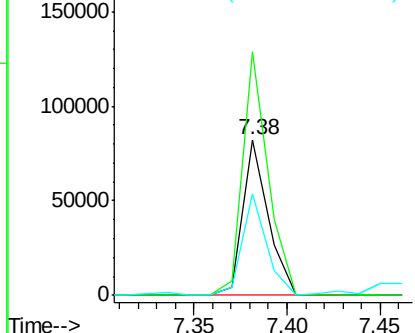
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.38 min Scan# 542  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

Tgt Ion:152 Resp: 77905  
Ion Ratio Lower Upper  
152 100  
150 156.7 122.0 183.0  
115 65.8 46.3 69.5



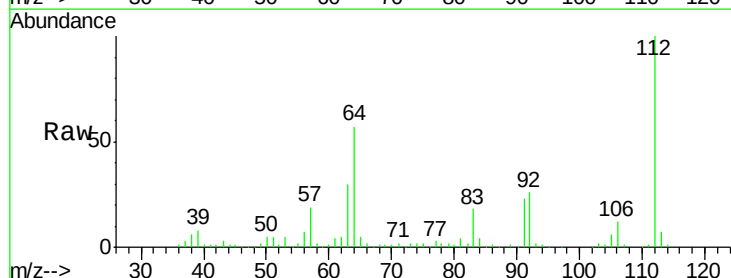
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



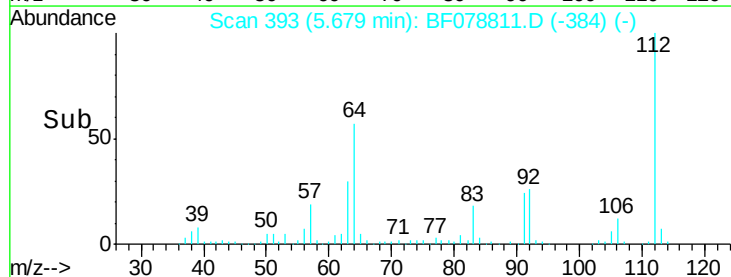
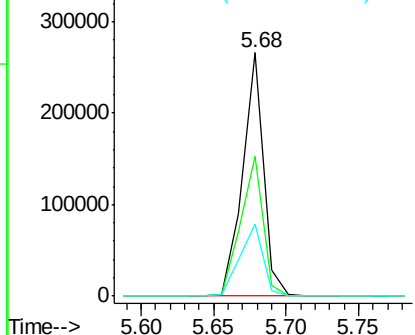
#5

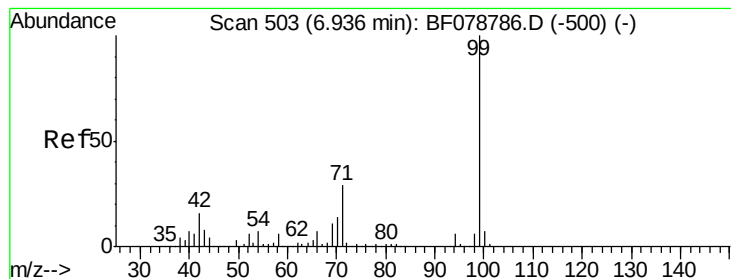
2-Fluorophenol  
Concen: 63.08 ng  
RT: 5.68 min Scan# 393  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Tgt Ion:112 Resp: 267576  
Ion Ratio Lower Upper  
112 100  
64 57.3 53.5 80.3  
63 29.7 27.5 41.3



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: 38.55 ng

RT: 6.92 min Scan# 502

Delta R.T. -0.00 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

Instrument :

BNA\_F

ClientSampleId :

S8-0433

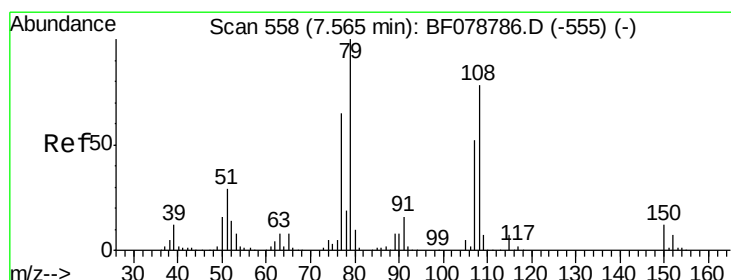
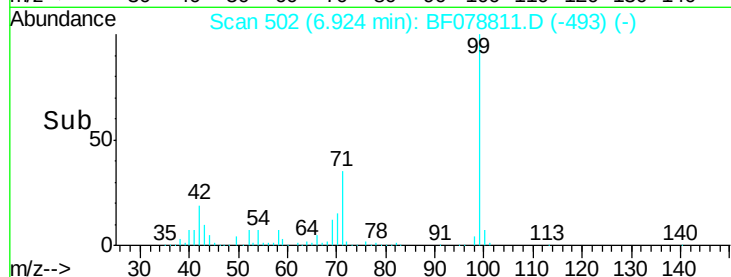
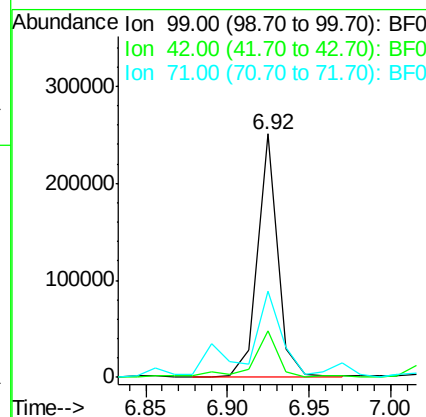
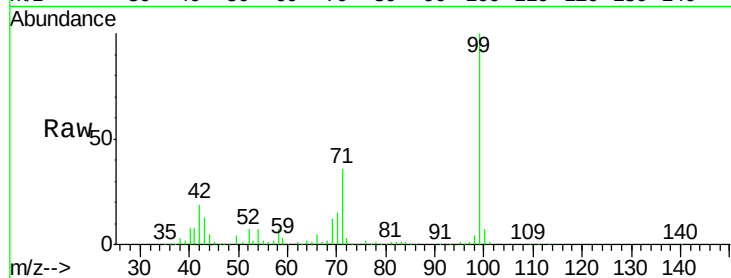
Tgt Ion: 99 Resp: 218401

Ion Ratio Lower Upper

99 100

42 19.0 12.8 19.2

71 35.6 23.4 35.2#



#15

Benzyl Alcohol

Concen: 2.56 ng

RT: 7.56 min Scan# 558

Delta R.T. 0.01 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

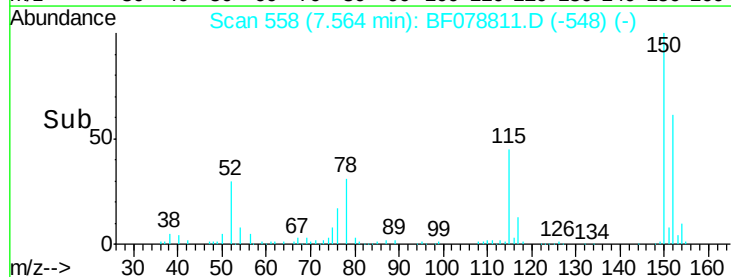
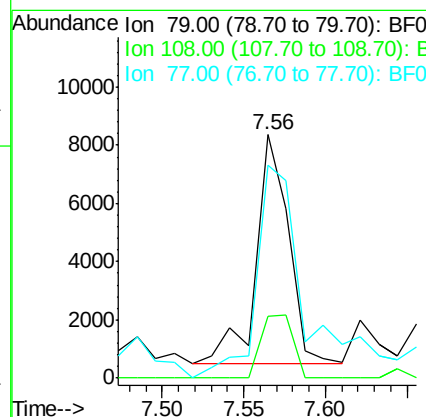
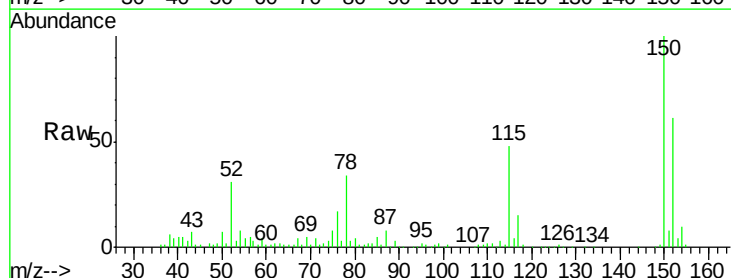
Tgt Ion: 79 Resp: 10823

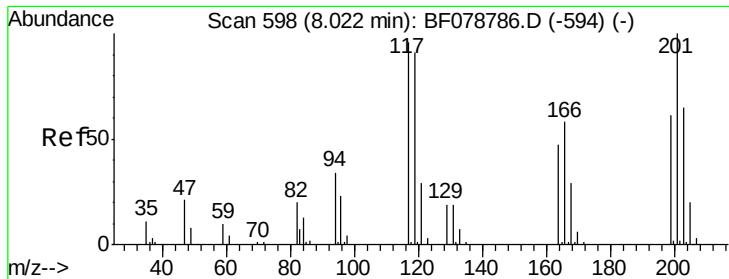
Ion Ratio Lower Upper

79 100

108 25.6 62.5 93.7#

77 87.2 52.2 78.4#

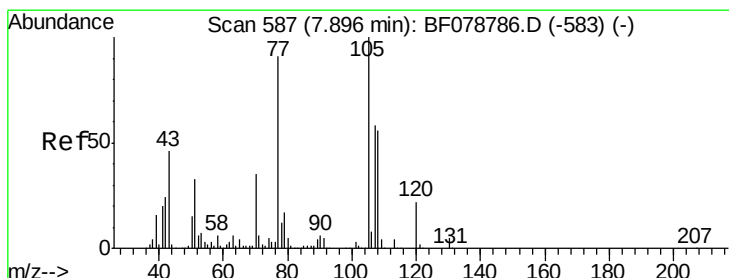
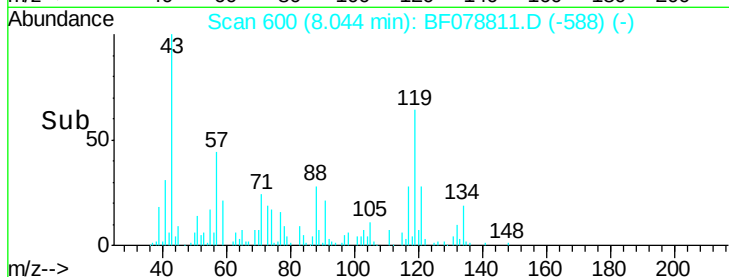
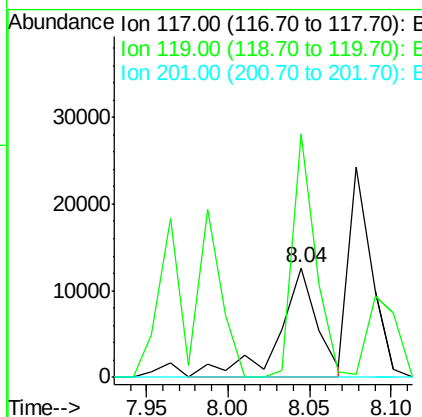
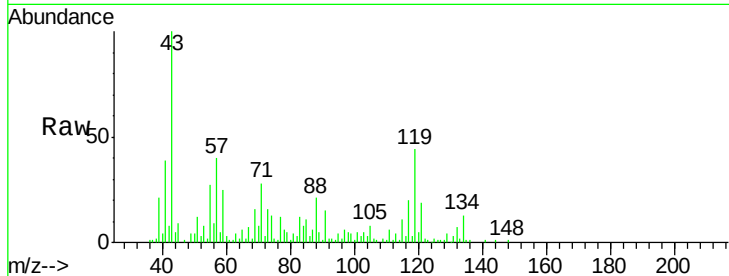




#18  
Hexachloroethane  
Concen: 10.99 ng  
RT: 8.04 min Scan# 600  
Delta R.T. 0.03 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

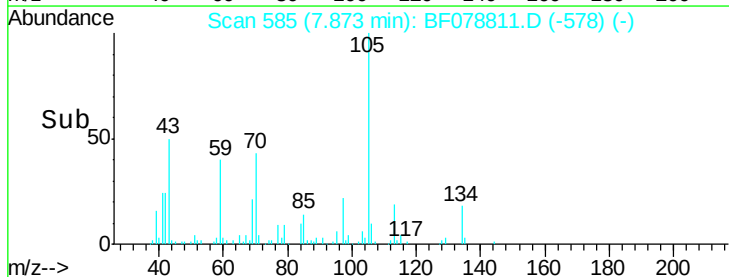
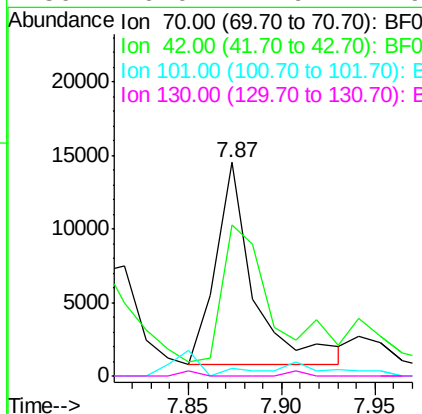
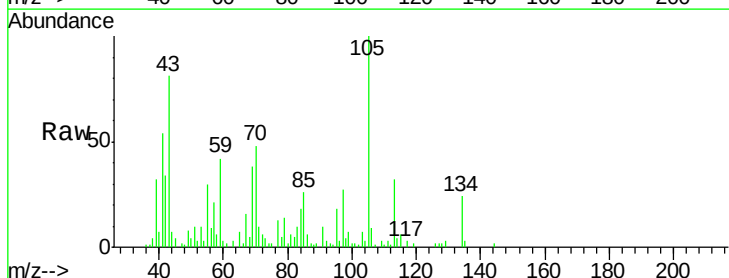
Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

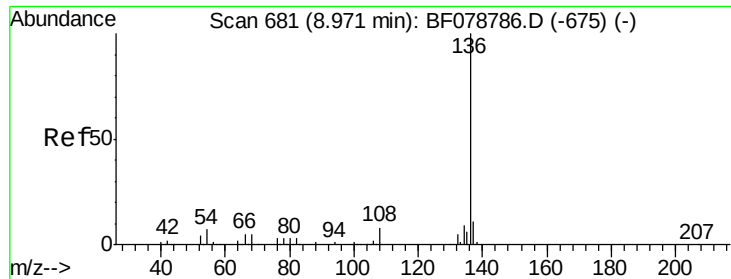
Tgt Ion: 117 Resp: 21031  
Ion Ratio Lower Upper  
117 100  
119 222.4 75.4 113.0#  
201 0.0 83.2 124.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 5.01 ng  
RT: 7.87 min Scan# 585  
Delta R.T. -0.02 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Tgt Ion: 70 Resp: 19812  
Ion Ratio Lower Upper  
70 100  
42 71.0 55.4 83.0  
101 3.5 6.6 10.0#  
130 0.0 11.9 17.9#

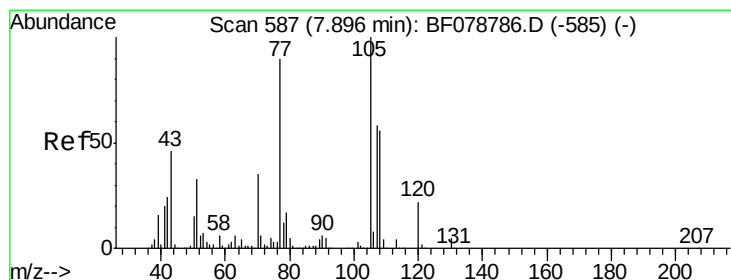
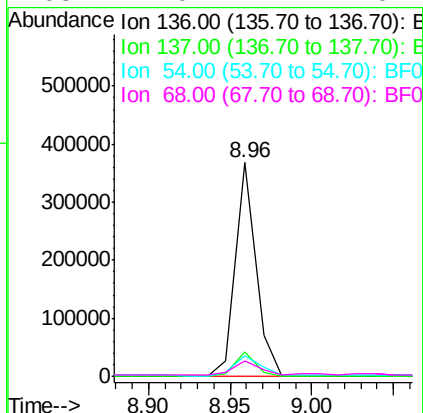
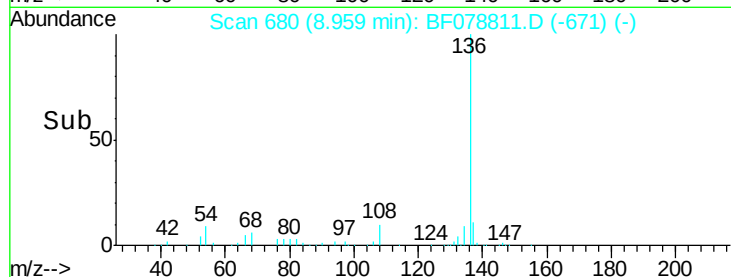
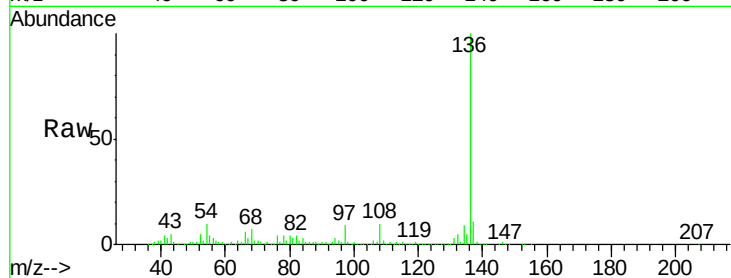




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.96 min Scan# 680  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

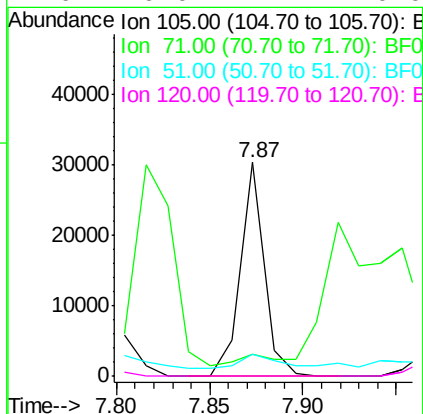
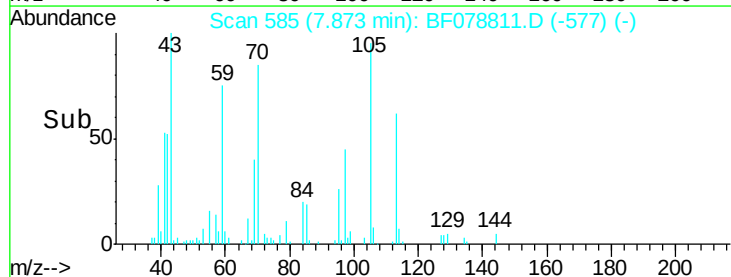
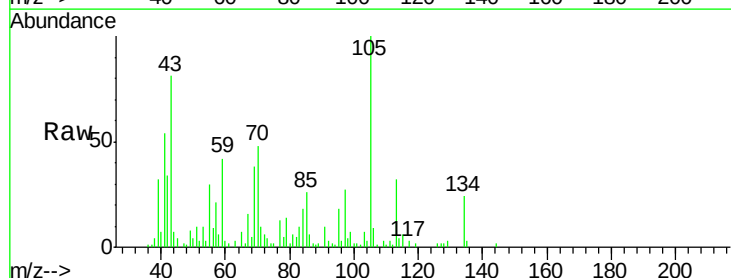
Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

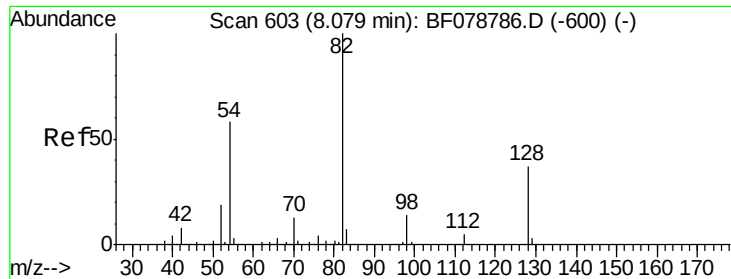
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 321536 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.7   | 13.1   |
| 54       | 9.6   | 5.8   | 8.8#   |
| 68       | 7.0   | 4.2   | 6.4#   |



#22  
Acetophenone  
Concen: 3.79 ng  
RT: 7.87 min Scan# 585  
Delta R.T. -0.01 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 27027 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 10.4  | 4.6   | 6.8#  |
| 51       | 10.3  | 26.7  | 40.1# |
| 120      | 0.0   | 17.4  | 26.0# |

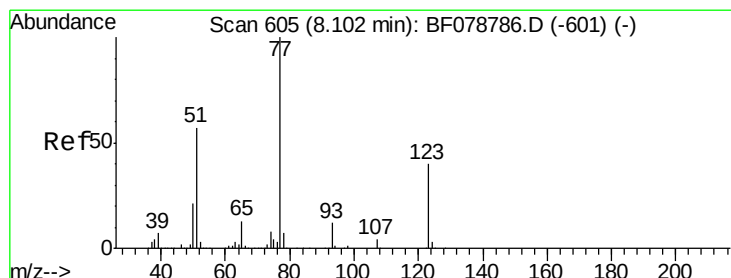
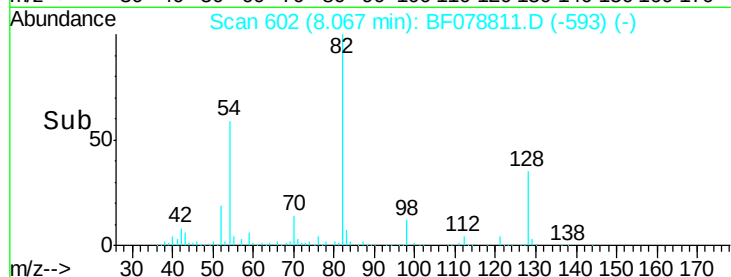
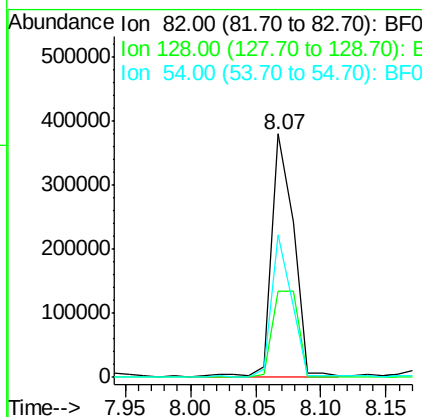
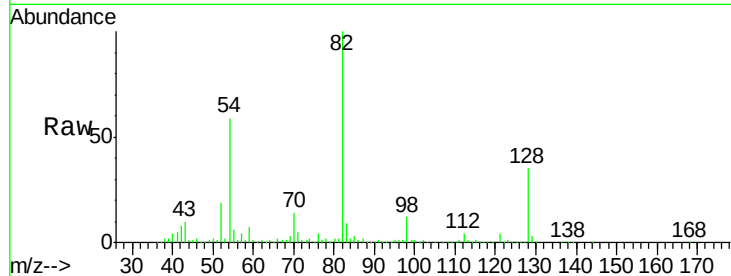




#23  
 Nitrobenzene-d5  
 Concen: 101.26 ng  
 RT: 8.07 min Scan# 602  
 Delta R.T. -0.00 min  
 Lab File: BF078811.D  
 Acq: 29 Apr 2015 14:12

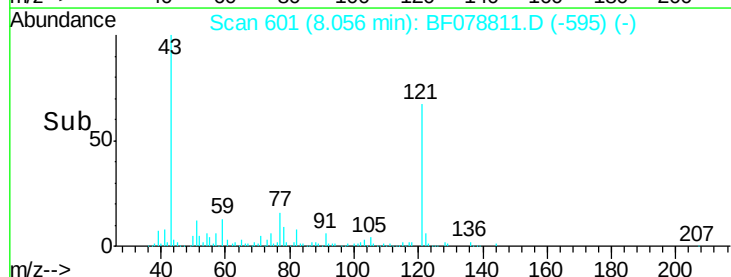
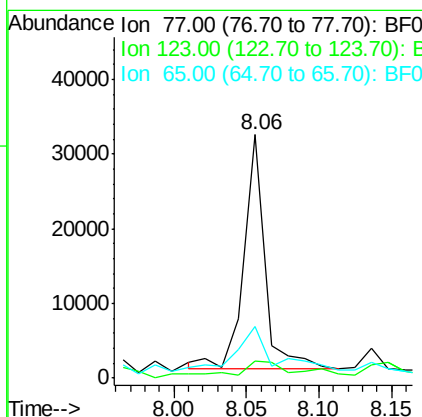
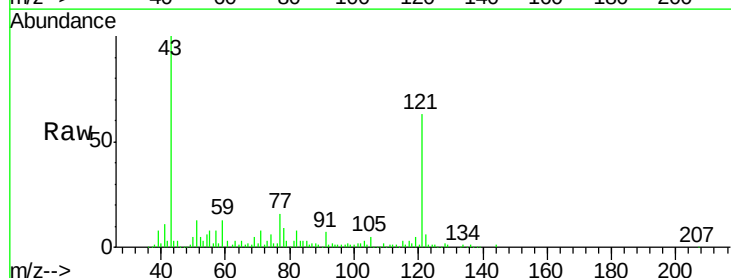
Instrument :  
 BNA\_F  
 ClientSampled :  
 S8-0433

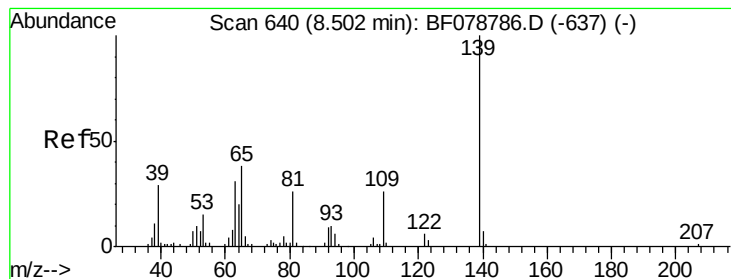
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 35.1  | 30.0  | 45.0  |
| 54      | 58.7  | 46.4  | 69.6  |



#24  
 Nitrobenzene  
 Concen: 6.68 ng  
 RT: 8.06 min Scan# 601  
 Delta R.T. -0.03 min  
 Lab File: BF078811.D  
 Acq: 29 Apr 2015 14:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 6.7   | 31.8  | 47.8# |
| 65      | 21.3  | 10.6  | 15.8# |





#26

2-Nitrophenol

Concen: 8.23 ng

RT: 8.44 min Scan# 635

Delta R.T. -0.05 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

Instrument :

BNA\_F

ClientSampleId :

S8-0433

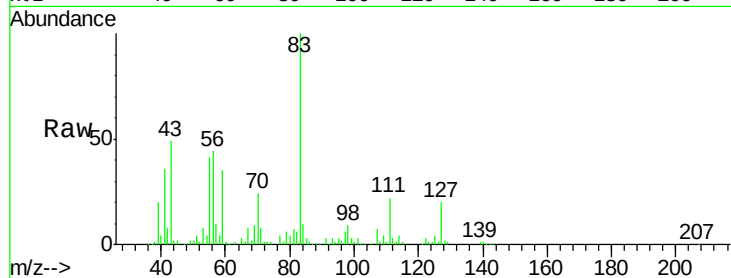
Tgt Ion:139 Resp: 2687

Ion Ratio Lower Upper

139 100

109 596.4 21.0 31.4#

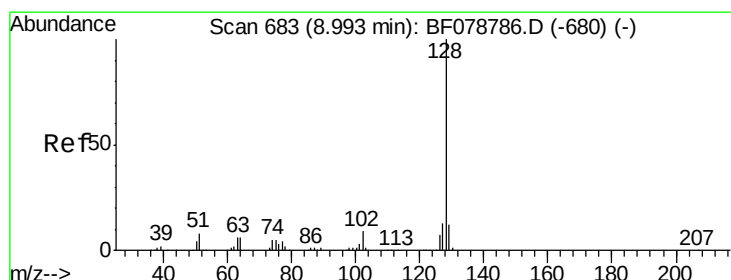
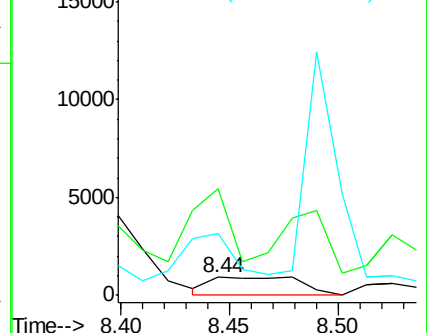
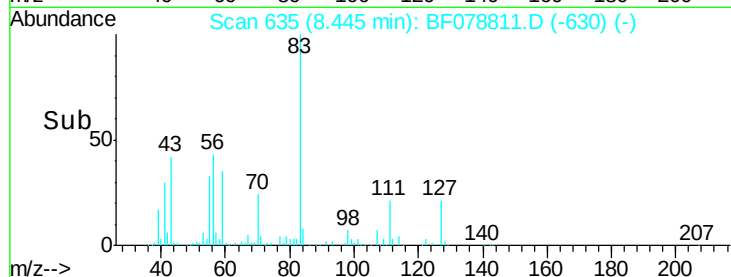
65 344.7 30.5 45.7#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0



#31

Naphthalene

Concen: 8.21 ng

RT: 8.98 min Scan# 682

Delta R.T. -0.01 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

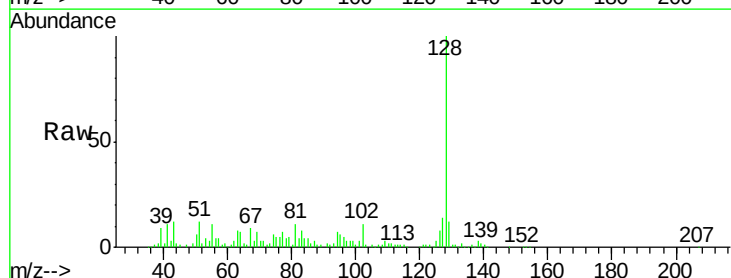
Tgt Ion:128 Resp: 125318

Ion Ratio Lower Upper

128 100

129 12.1 9.3 13.9

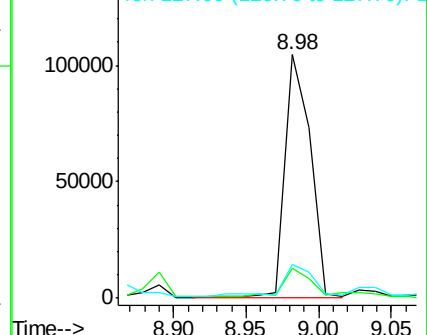
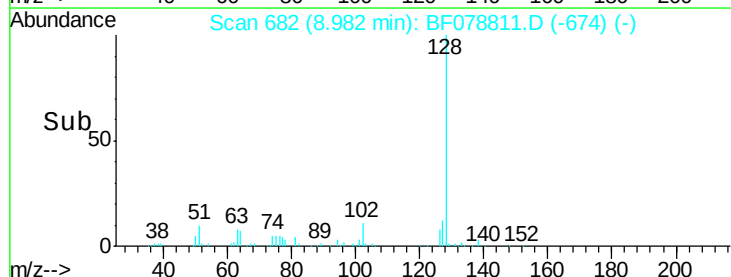
127 14.1 10.7 16.1



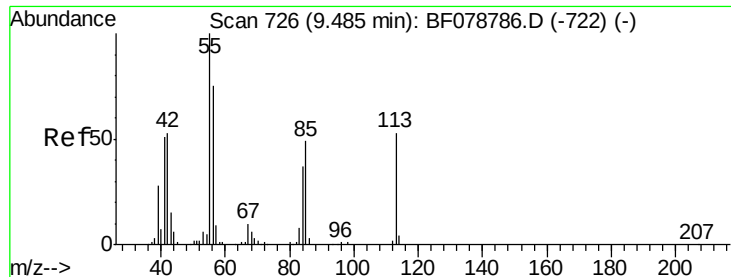
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



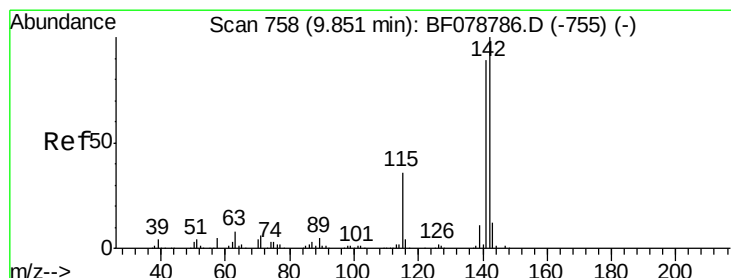
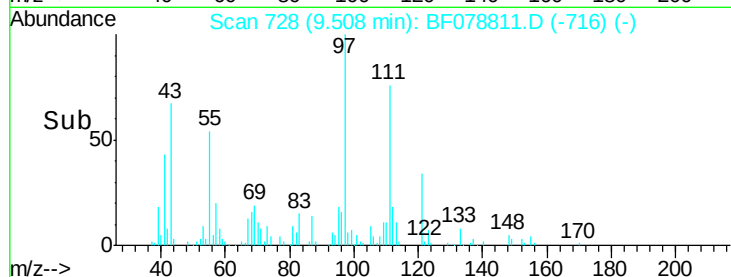
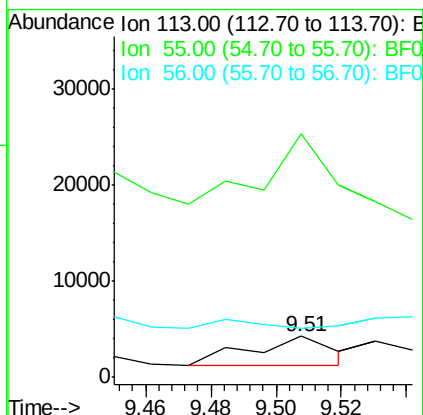
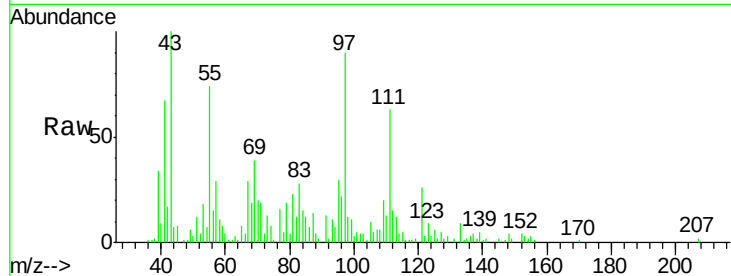




#35  
 Caprolactam  
 Concen: 4.21 ng  
 RT: 9.51 min Scan# 728  
 Delta R.T. 0.03 min  
 Lab File: BF078811.D  
 Acq: 29 Apr 2015 14:12

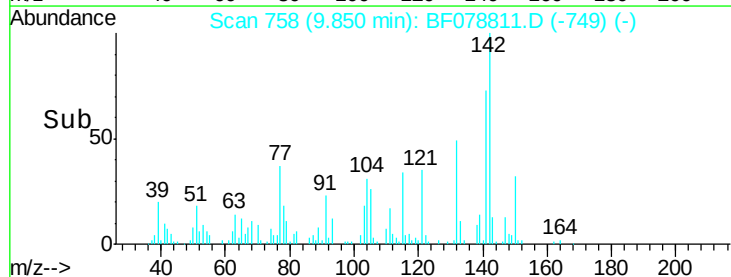
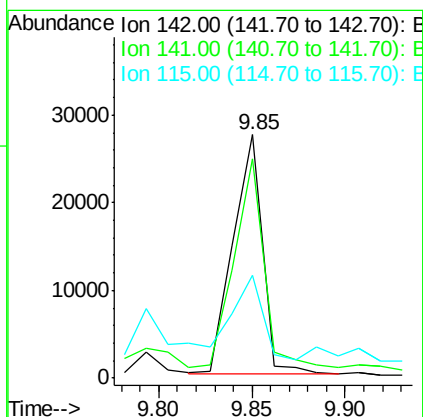
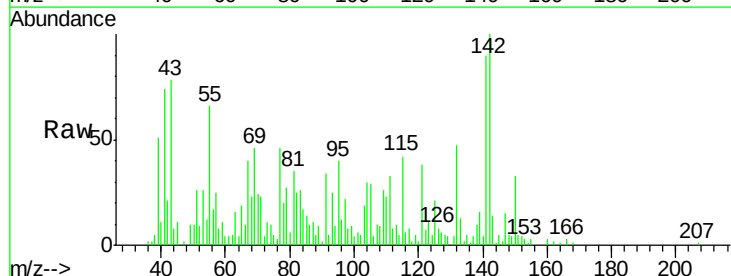
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S8-0433

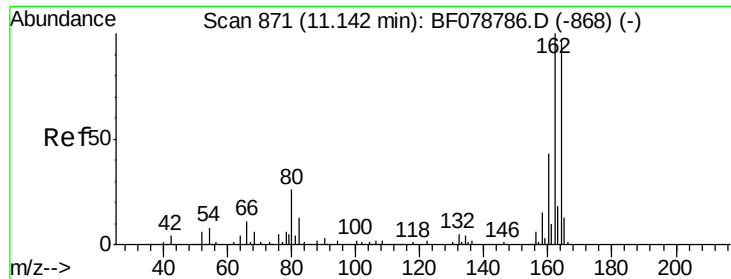
Tgt Ion:113 Resp: 5133  
 Ion Ratio Lower Upper  
 113 100  
 55 597.1 169.7 209.7#  
 56 120.1 122.5 162.5#



#37  
 2-Methylnaphthalene  
 Concen: 2.93 ng  
 RT: 9.85 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF078811.D  
 Acq: 29 Apr 2015 14:12

Tgt Ion:142 Resp: 30076  
 Ion Ratio Lower Upper  
 142 100  
 141 90.3 70.9 106.3  
 115 42.3 28.5 42.7

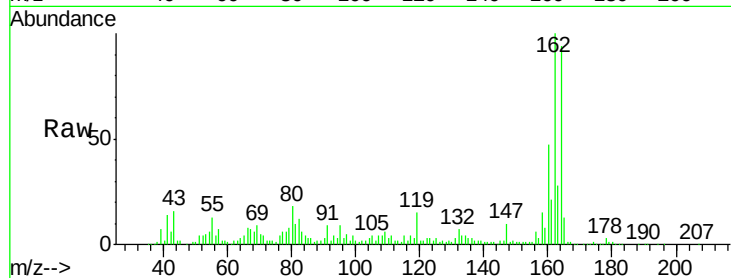




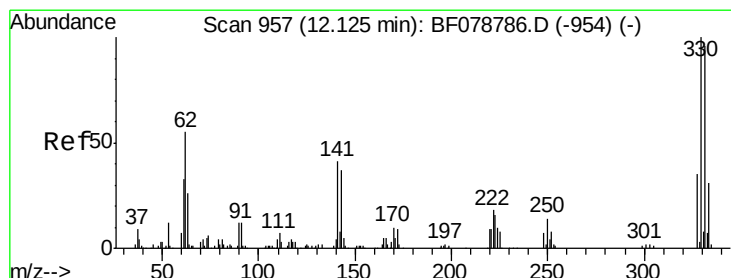
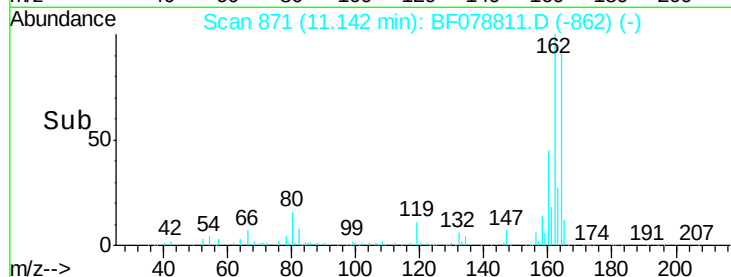
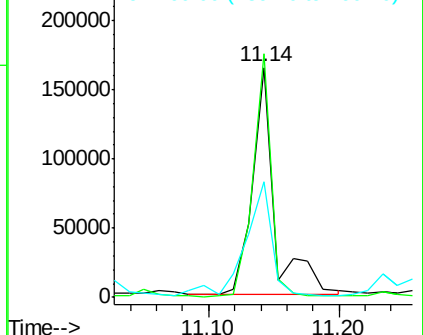
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 11.14 min Scan# 871  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

Tgt Ion:164 Resp: 195763  
Ion Ratio Lower Upper  
164 100  
162 105.9 82.7 124.1  
160 50.1 35.8 53.8

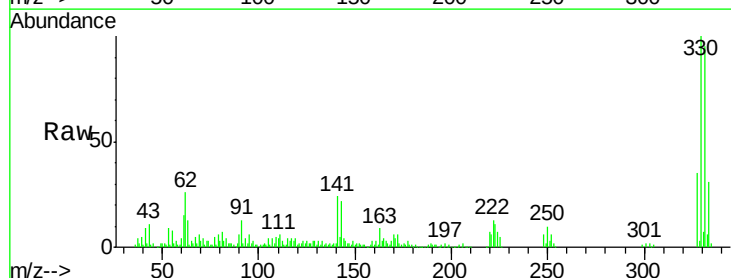


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

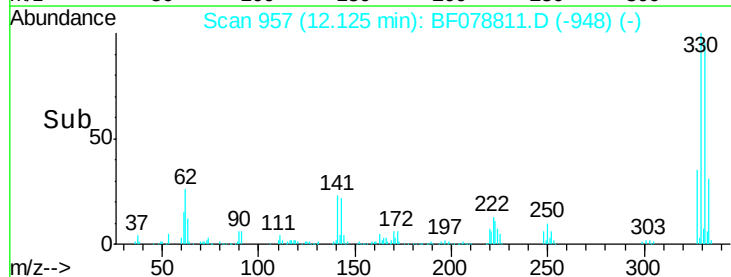
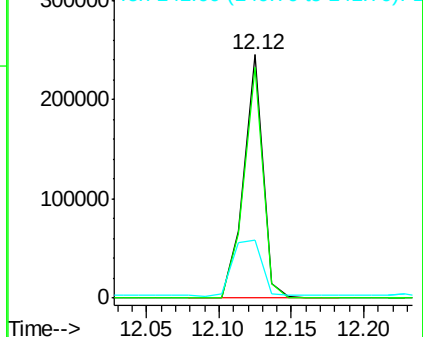


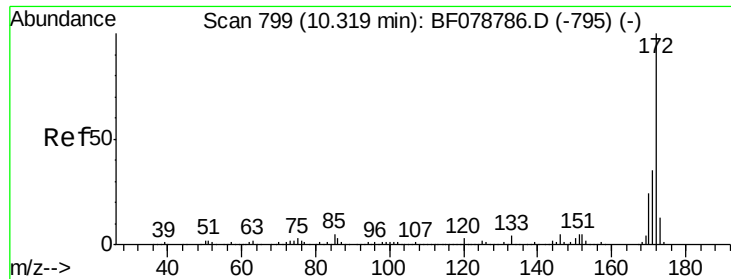
#41  
2,4,6-Tribromophenol  
Concen: 117.13 ng  
RT: 12.12 min Scan# 957  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Tgt Ion:330 Resp: 226907  
Ion Ratio Lower Upper  
330 100  
332 95.0 0.0 0.0#  
141 34.6 0.0 0.0#



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

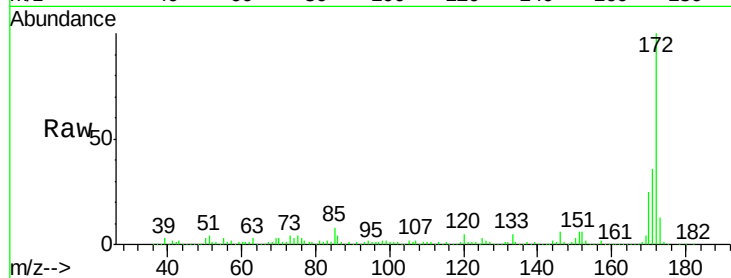




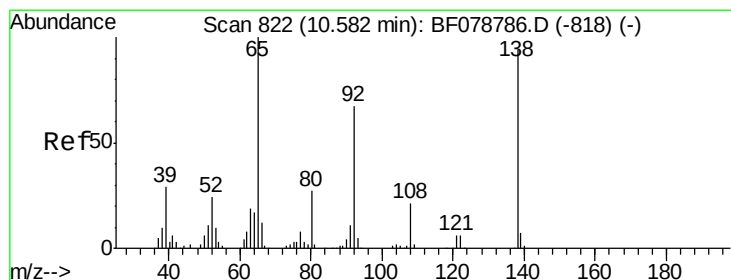
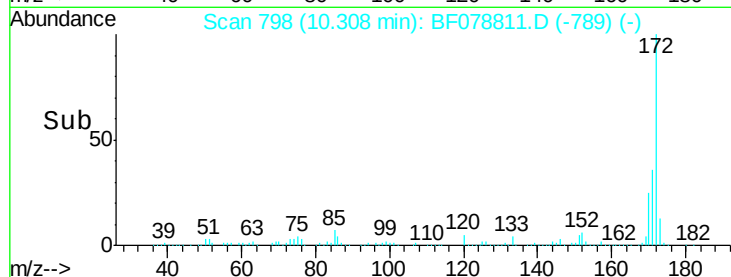
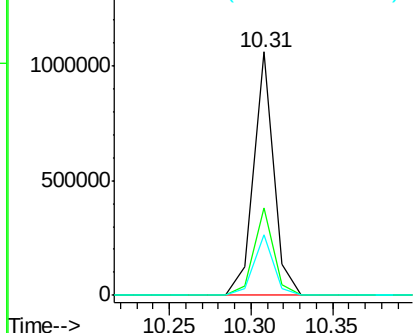
#44  
2-Fluorobiphenyl  
Concen: 63.40 ng  
RT: 10.31 min Scan# 798  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

Tgt Ion: 172 Resp: 906249  
Ion Ratio Lower Upper  
172 100  
171 35.8 27.9 41.9  
170 24.7 19.4 29.0

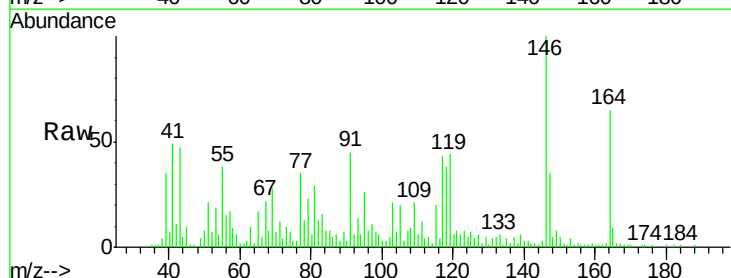


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

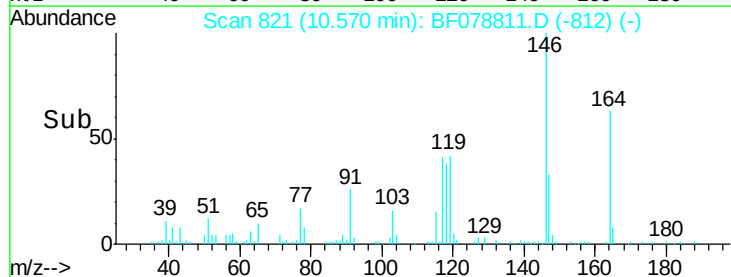
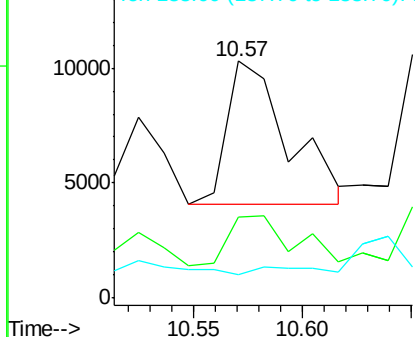


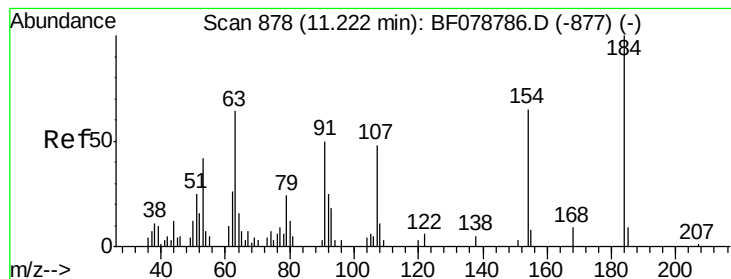
#47  
2-Nitroaniline  
Concen: 4.56 ng  
RT: 10.57 min Scan# 821  
Delta R.T. -0.00 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Tgt Ion: 65 Resp: 12217  
Ion Ratio Lower Upper  
65 100  
92 34.0 54.0 81.0#  
138 9.9 75.0 112.6#



Abundance Ion 65.00 (64.70 to 65.70): BF0  
Ion 92.00 (91.70 to 92.70): BF0  
Ion 138.00 (137.70 to 138.70): E





#53

2,4-Dinitrophenol

Concen: 6.17 ng

RT: 11.24 min Scan# 880

Delta R.T. 0.03 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

Instrument :

BNA\_F

ClientSampleId :

S8-0433

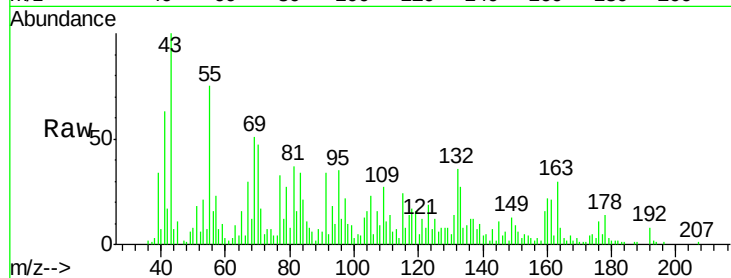
Tgt Ion:184 Resp: 631

Ion Ratio Lower Upper

184 100

63 689.0 63.3 94.9#

154 312.4 53.8 80.6#

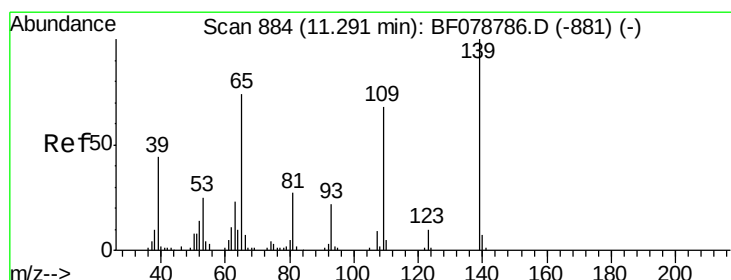
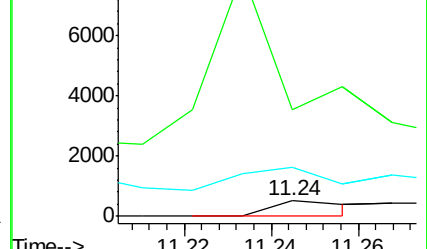
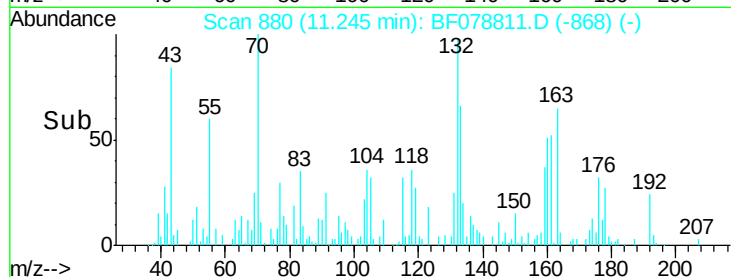


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 154.00 (153.70 to 154.70): E

Time-->



#55

4-Nitrophenol

Concen: 6.71 ng

RT: 11.28 min Scan# 883

Delta R.T. -0.00 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

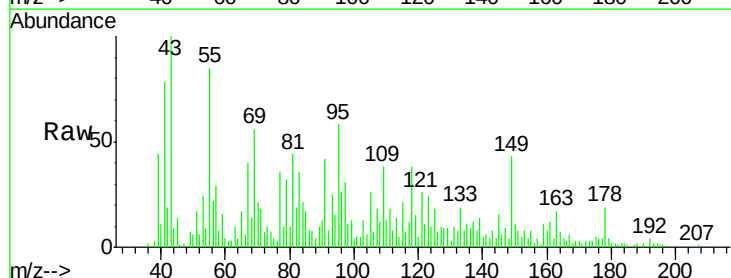
Tgt Ion:139 Resp: 418

Ion Ratio Lower Upper

139 100

109 266.1 47.6 87.6#

65 117.7 54.3 94.3#

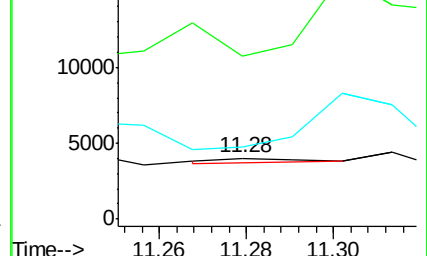
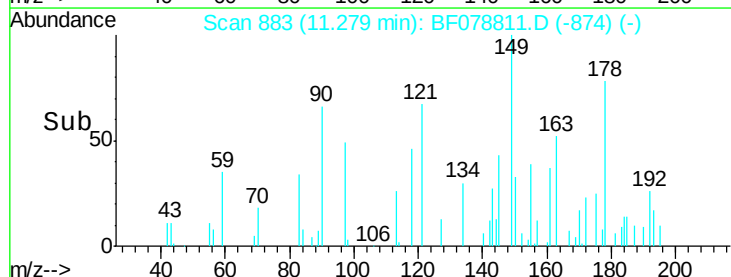


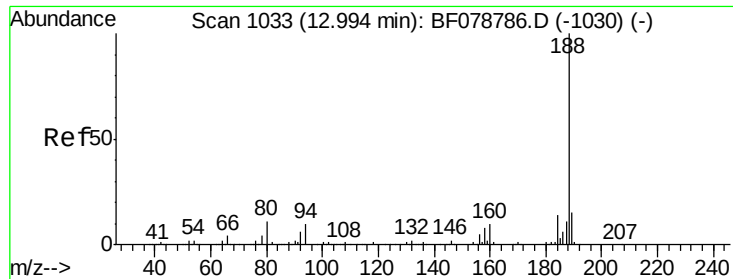
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

Time-->

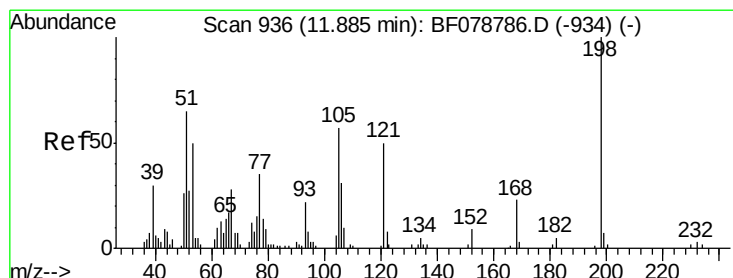
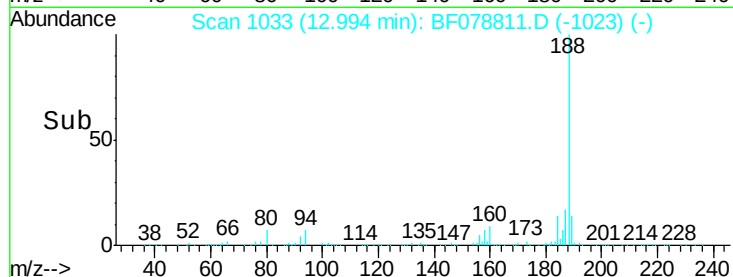
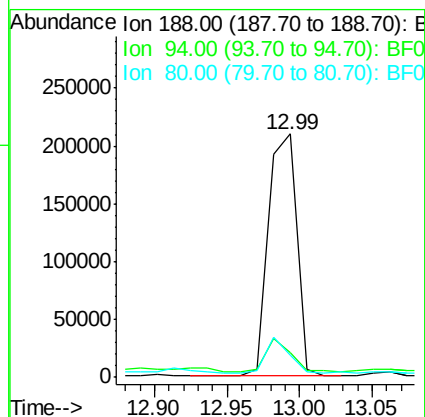
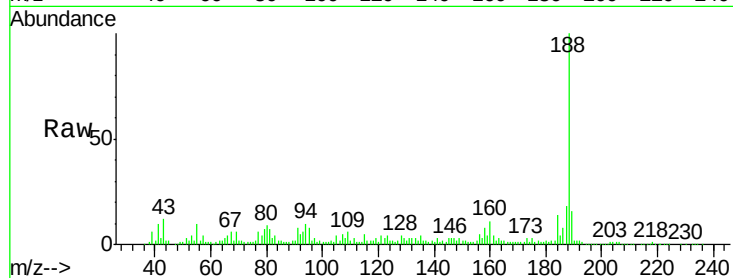




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.99 min Scan# 1033  
Delta R.T. 0.01 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

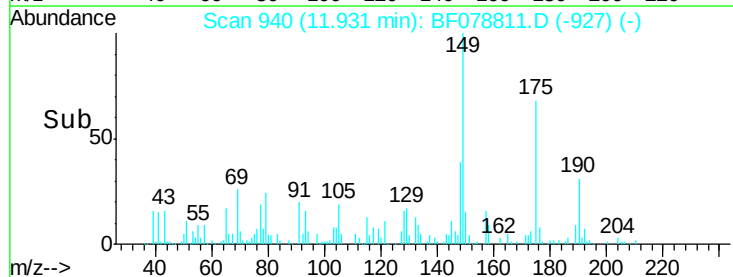
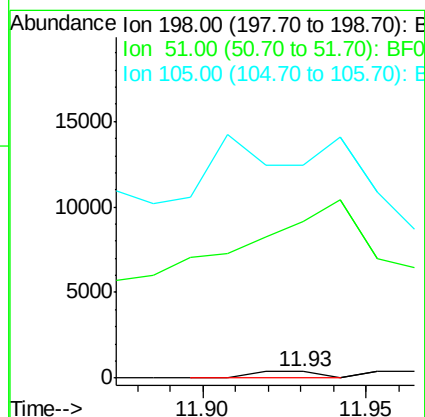
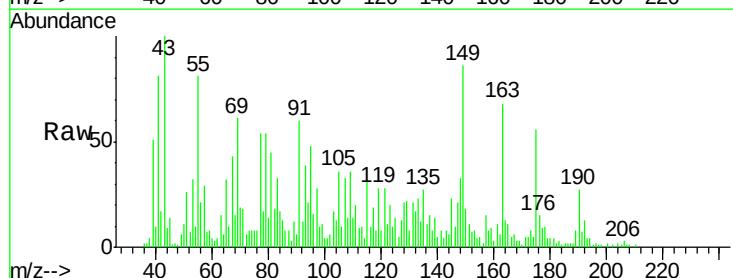
Instrument :  
BNA\_F  
ClientSampleId :  
S8-0433

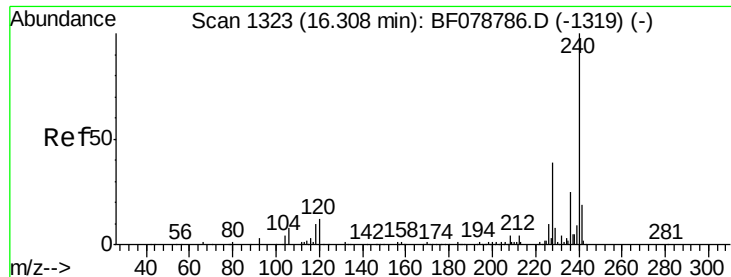
Tgt Ion:188 Resp: 284690  
Ion Ratio Lower Upper  
188 100  
94 10.1 8.2 12.2  
80 9.4 8.9 13.3



#64  
4,6-Dinitro-2-methylphenol  
Concen: 2.09 ng  
RT: 11.93 min Scan# 940  
Delta R.T. 0.05 min  
Lab File: BF078811.D  
Acq: 29 Apr 2015 14:12

Tgt Ion:198 Resp: 538  
Ion Ratio Lower Upper  
198 100  
51 2324.1 47.3 87.3#  
105 3141.5 38.8 78.8#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.29 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

Instrument :

BNA\_F

ClientSampleId :

S8-0433

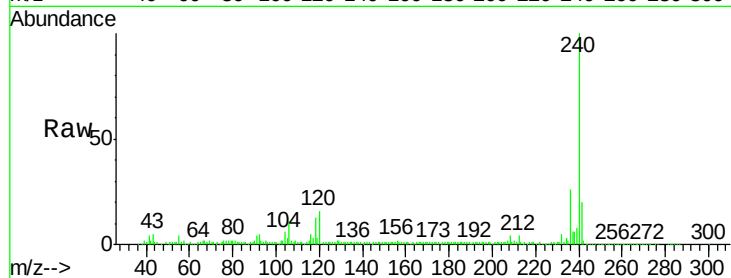
Tgt Ion:240 Resp: 294291

Ion Ratio Lower Upper

240 100

120 15.8 9.7 14.5#

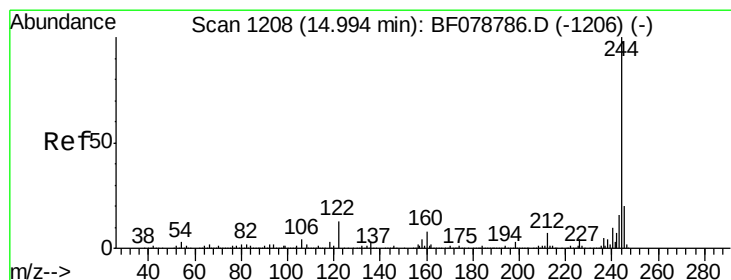
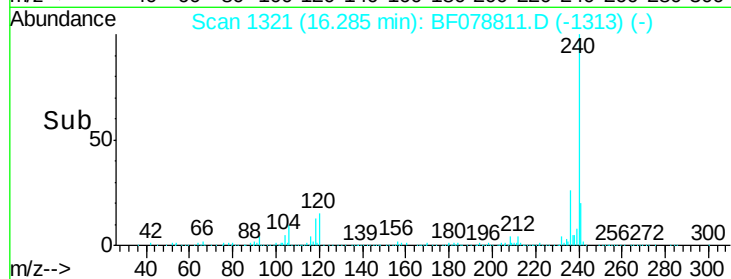
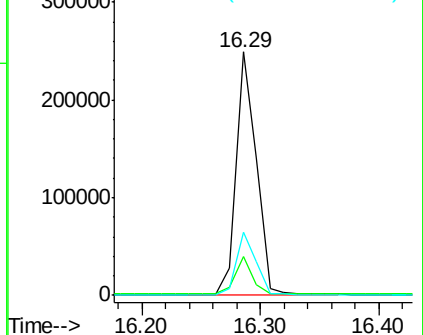
236 25.7 20.2 30.4



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: 67.47 ng

RT: 14.98 min Scan# 1207

Delta R.T. -0.00 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

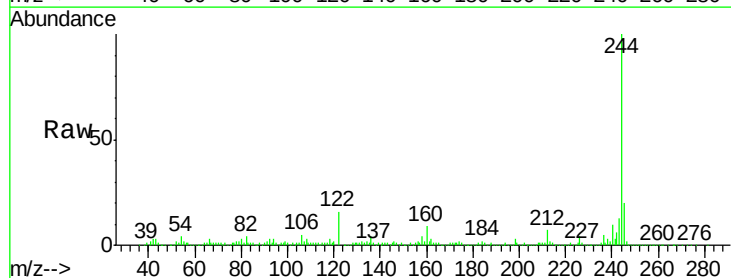
Tgt Ion:244 Resp: 833760

Ion Ratio Lower Upper

244 100

212 7.1 5.6 8.4

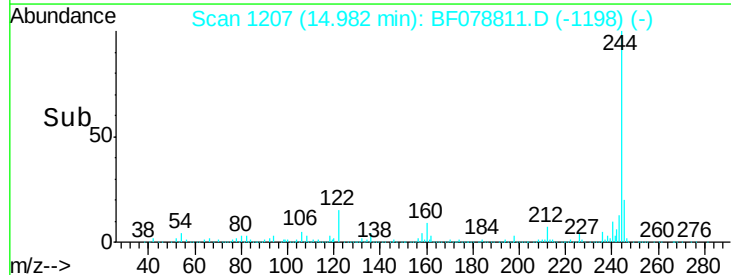
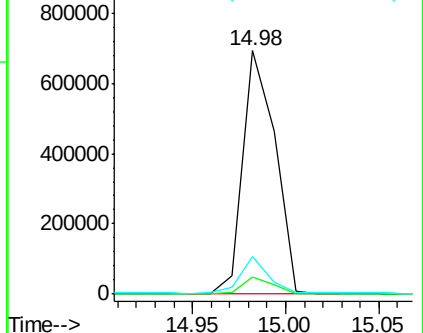
122 15.7 10.3 15.5#

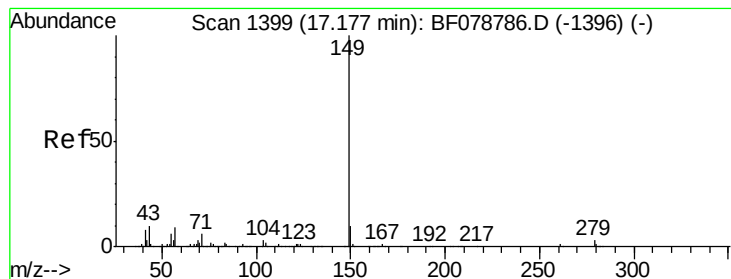


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#84

Di-n-octyl phthalate

Concen: 7.01 ng

RT: 17.14 min Scan# 1396

Delta R.T. -0.01 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

Instrument :

BNA\_F

ClientSampleId :

S8-0433

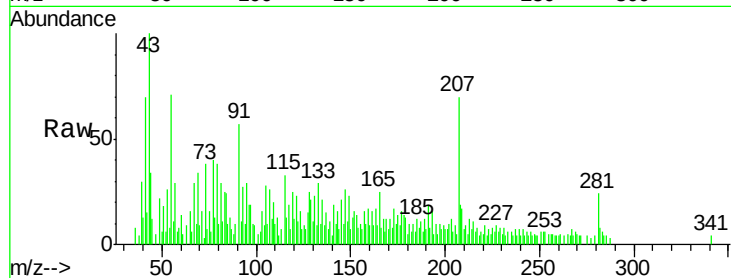
Tgt Ion:149 Resp: 1318

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

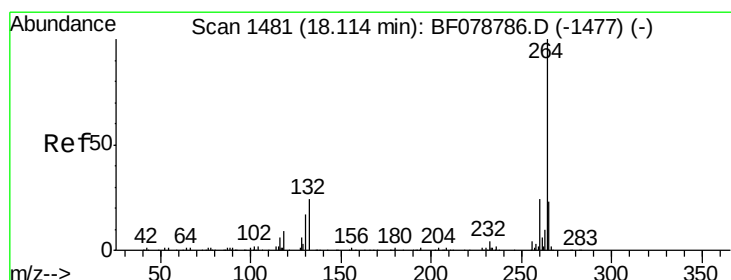
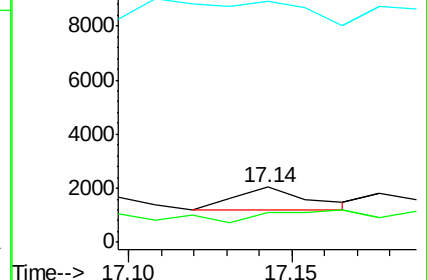
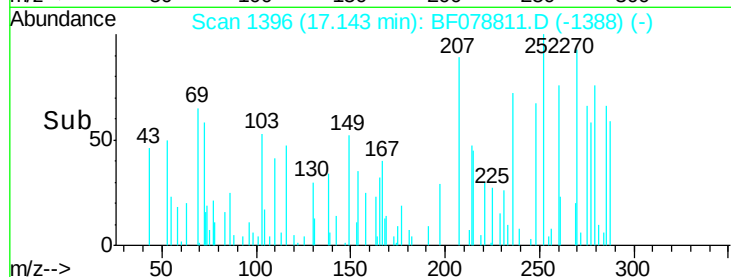
43 0.0 0.0 0.0



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF0



#86

Perylene-d12

Concen: 20.00 ng

RT: 18.07 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF078811.D

Acq: 29 Apr 2015 14:12

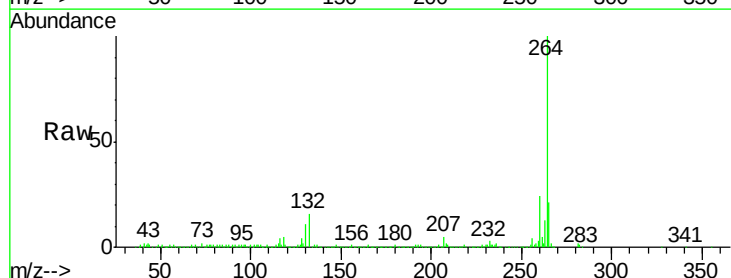
Tgt Ion:264 Resp: 310357

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.2

265 21.3 18.3 27.5



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

