

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112117\  
 Data File : BF100810.D  
 Acq On : 22 Nov 2017 5:33  
 Operator : SJ/JU  
 Sample : I6542-03  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 22 07:37:22 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 17 15:22:08 2017  
 Response via : Initial Calibration

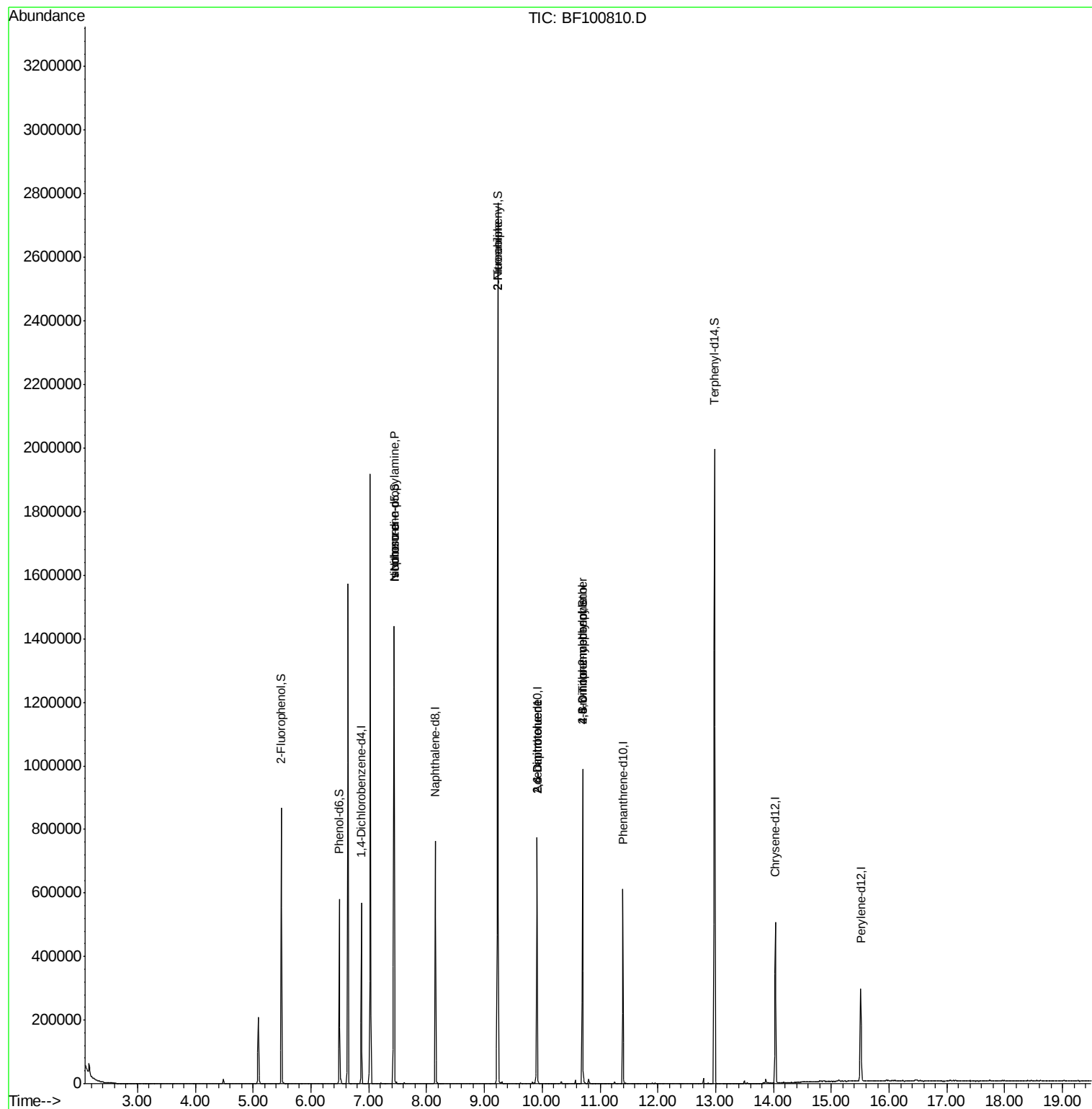
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 86271    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.15  | 136  | 328820   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.91  | 164  | 145497   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.39 | 188  | 232194   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.03 | 240  | 171870   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.51 | 264  | 151982   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 225934   | 41.98  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 170021   | 25.62  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 519525   | 104.46 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 122974   | 82.94  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.23  | 172  | 991405   | 103.76 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.98 | 244  | 633078   | 84.64  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 67174    | 14.60  | ng    | # 79     |
| 25) Isophorone                 | 7.44  | 82   | 519520   | 49.71  | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.23  | 65   | 1358     | 3.26   | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.91  | 165  | 18125    | 8.24   | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.91  | 165  | 18125    | 6.53   | ng    | # 24     |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 301      | 8.78   | ng    | # 31     |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 7729     | 3.11   | ng    | # 1      |

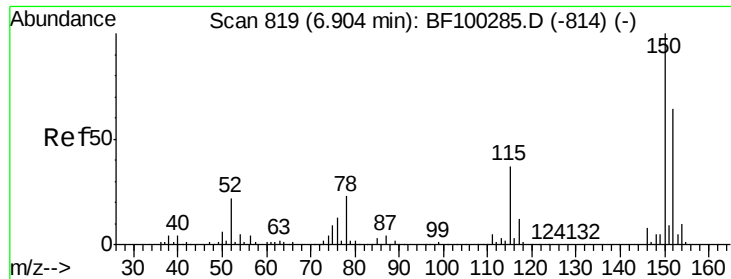
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.87 min Scan# 813

Delta R.T. -0.01 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

Instrument :

BNA\_F

ClientSampleId :

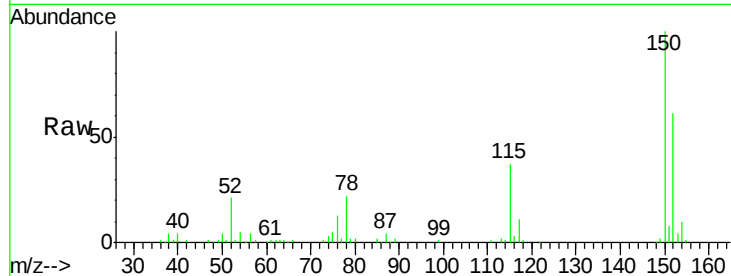
Tot Ion:152 Resp: 86271

Ion Ratio Lower Upper

152 100

150 163.1 124.6 186.8

115 60.3 50.1 75.1



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

200000

150000

100000

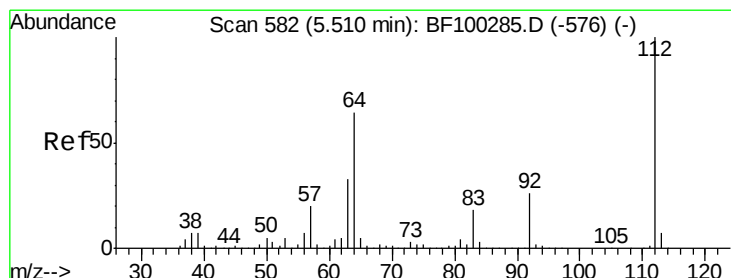
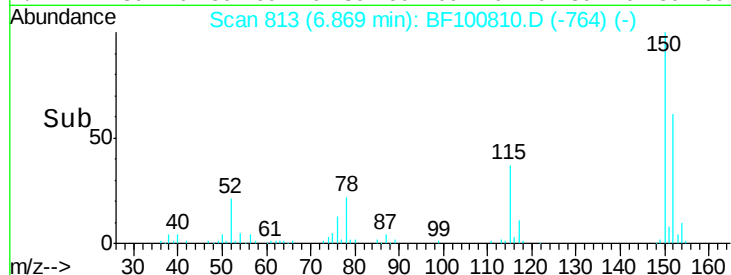
50000

0

6.87

6.82 6.84 6.86 6.88 6.90

Time-->



#5

2-Fluorophenol

Concen: 41.98 ng

RT: 5.49 min Scan# 578

Delta R.T. -0.01 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

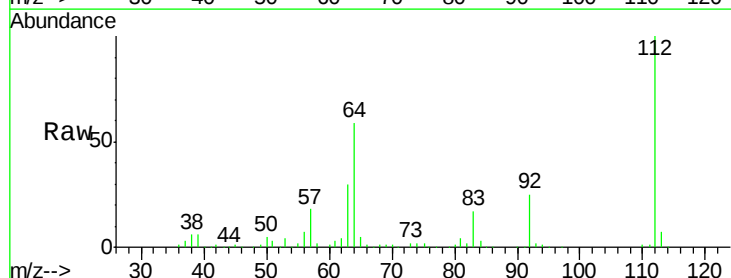
Tgt Ion:112 Resp: 225934

Ion Ratio Lower Upper

112 100

64 59.1 47.9 71.9

63 30.1 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

300000

200000

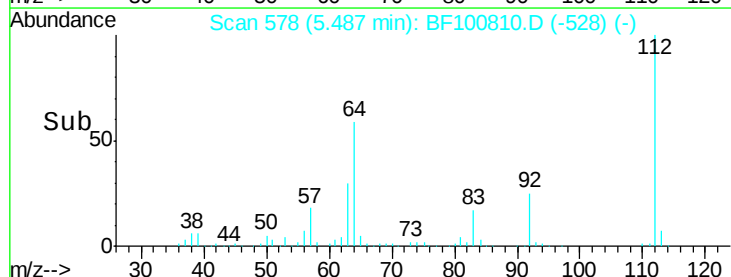
100000

0

5.49

5.40 5.45 5.50 5.55 5.60

Time-->





#7

Phenol-d6

Concen: 25.62 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.02 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

Instrument :

BNA\_F

ClientSampled :

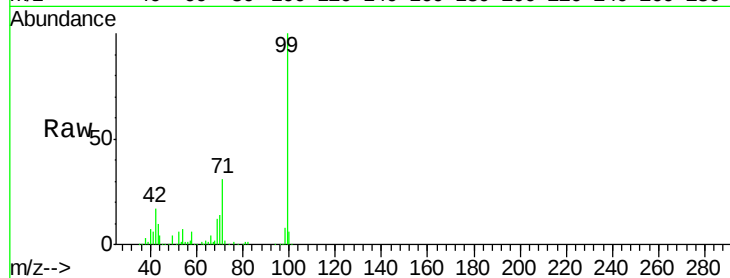
Tot Ion: 99 Resp: 170021

Ion Ratio Lower Upper

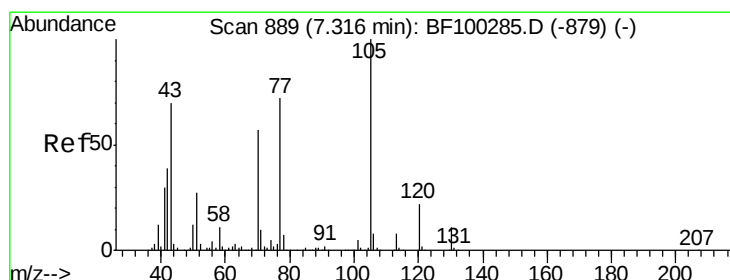
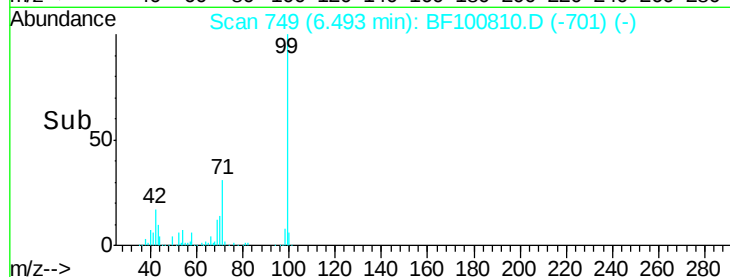
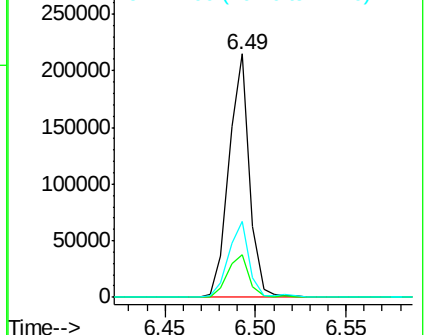
99 100

42 17.3 14.5 21.7

71 31.1 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.60 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.14 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

Tgt Ion: 70 Resp: 67174

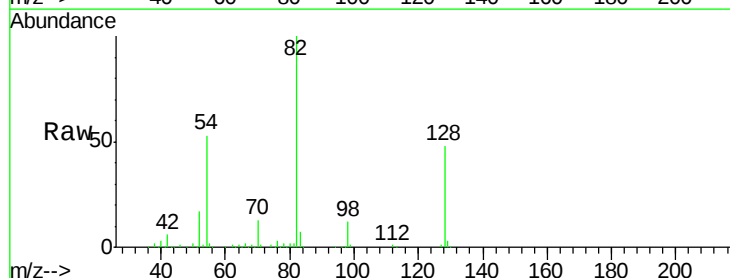
Ion Ratio Lower Upper

70 100

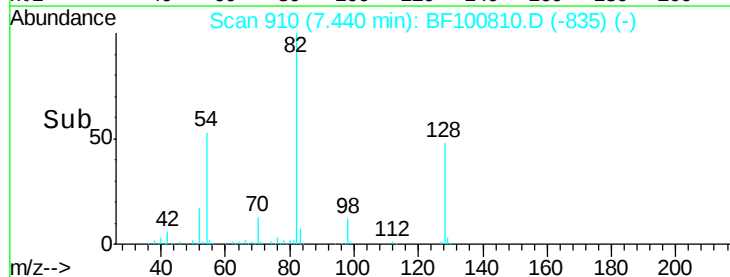
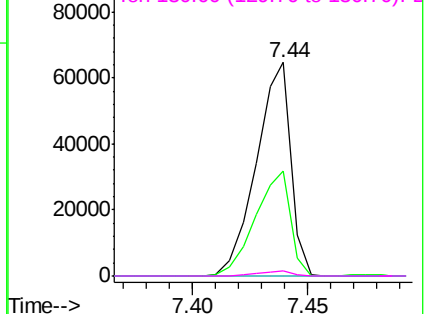
42 49.0 47.5 71.3

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1

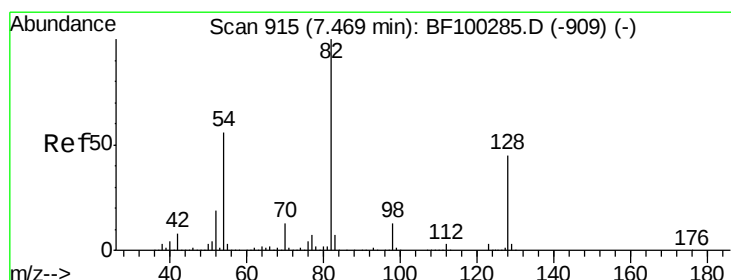
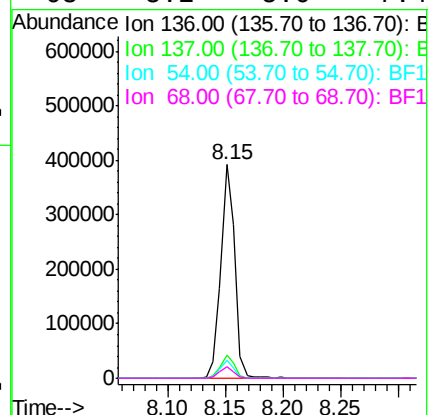
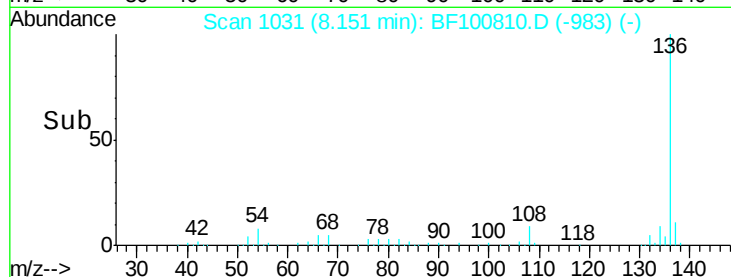
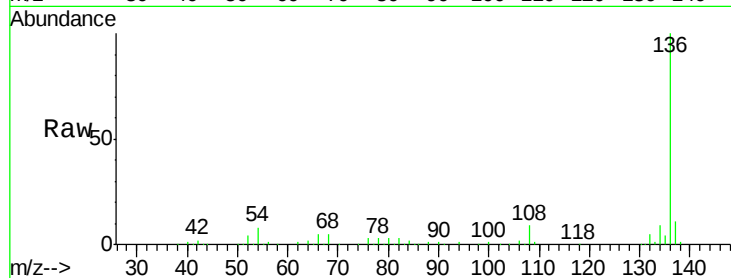




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.02 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

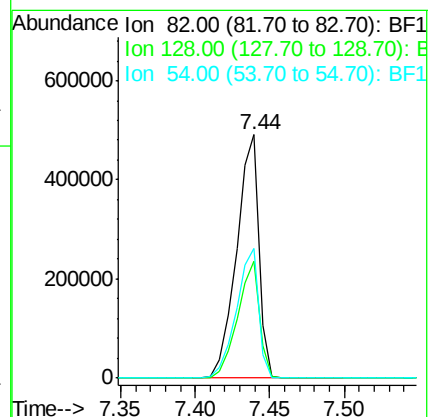
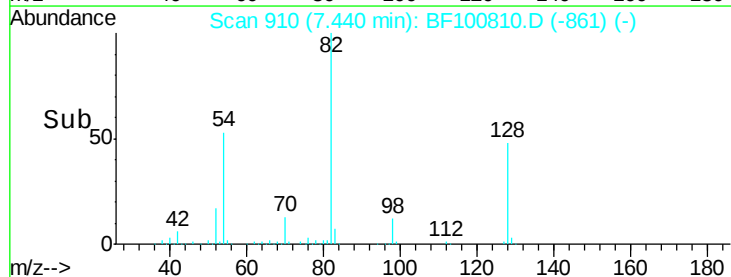
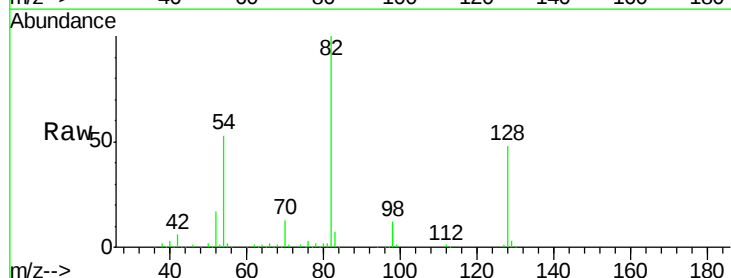
Instrument :  
BNA\_F  
ClientSampleId :

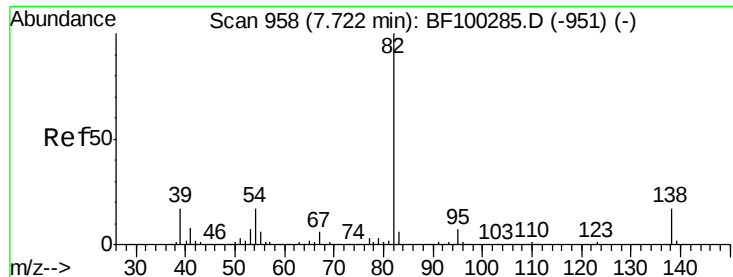
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 328820   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.8  | 8.9 13.3 |
| 54          | 8.4   | 6.6 9.8  |
| 68          | 5.2   | 5.0 7.4  |



#23  
Nitrobenzene-d5  
Concen: 104.46 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 519525    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.9  | 36.1 54.1 |
| 54          | 53.1  | 41.4 62.2 |





#25

Isophorone

Concen: 49.71 ng

RT: 7.44 min Scan# 910

Delta R.T. -0.26 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

Instrument :

BNA\_F

ClientSampleId :

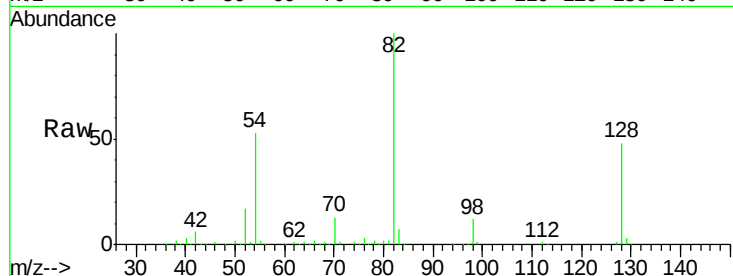
Tot Ion: 82 Resp: 519520

Ion Ratio Lower Upper

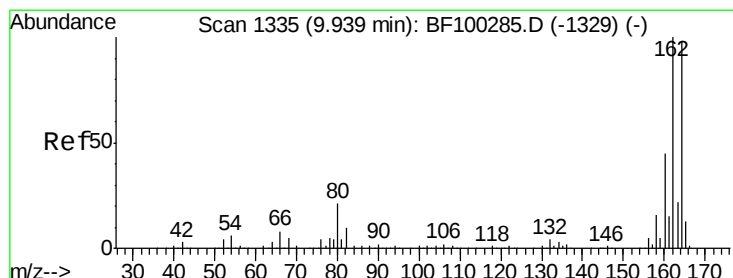
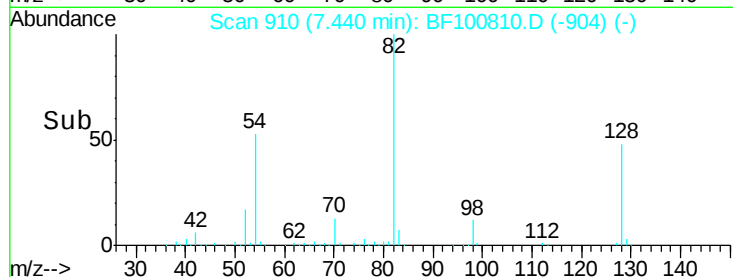
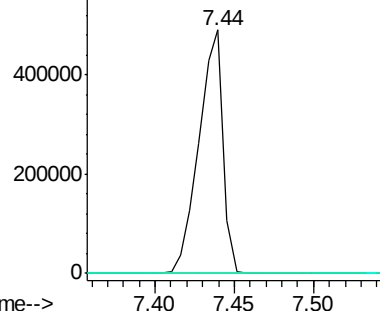
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

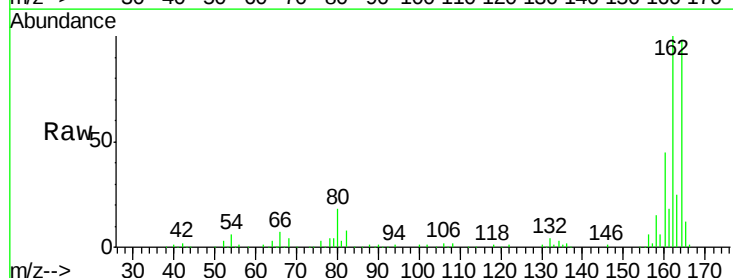
Tgt Ion: 164 Resp: 145497

Ion Ratio Lower Upper

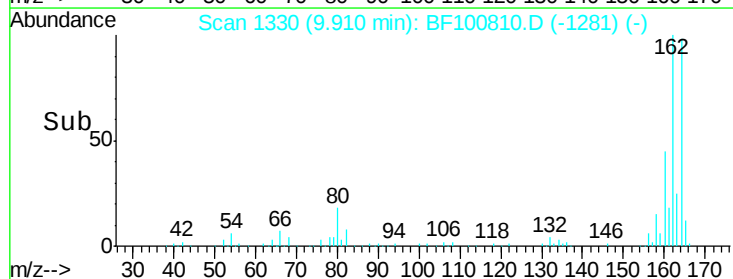
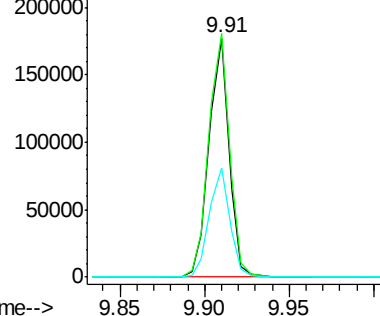
164 100

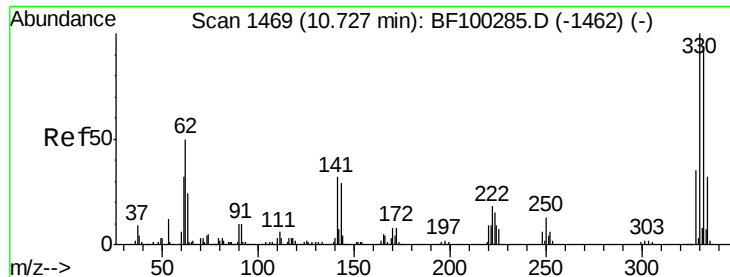
162 102.0 86.1 129.1

160 46.0 38.3 57.5



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

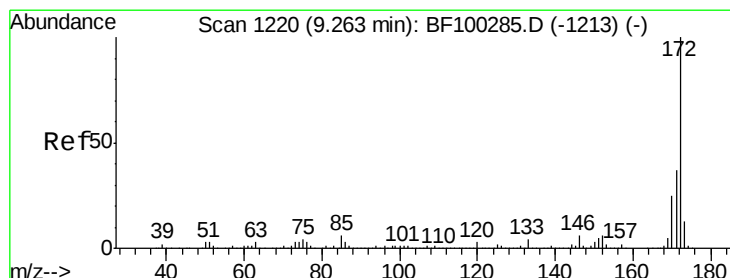
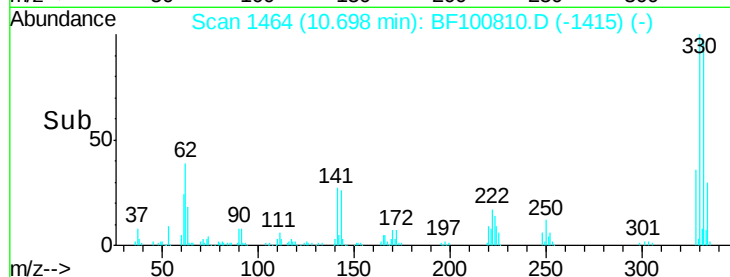
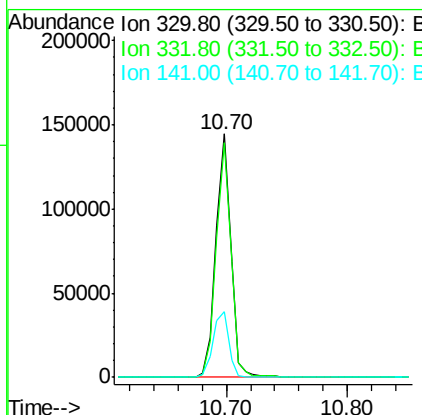
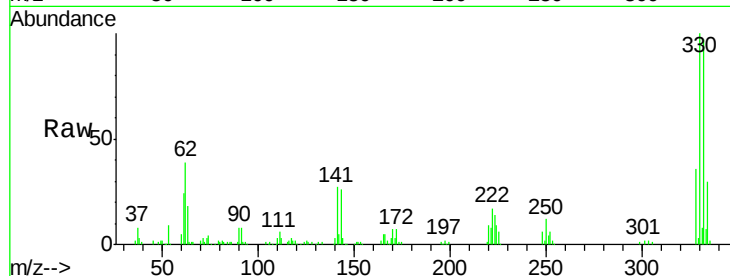




#41  
 2,4,6-Tribromophenol  
 Concen: 82.94 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.01 min  
 Lab File: BF100810.D  
 Acq: 22 Nov 2017 5:33

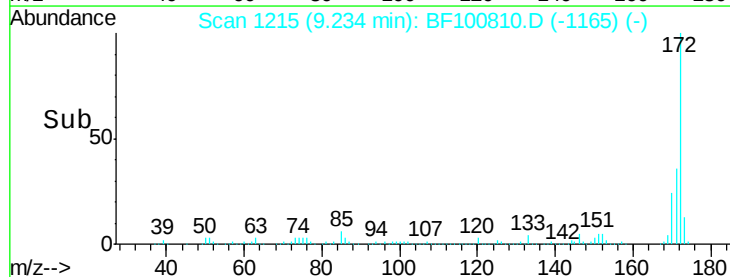
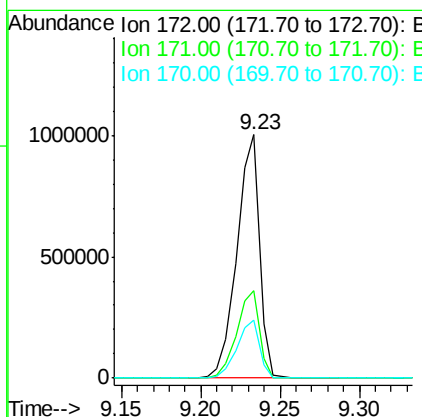
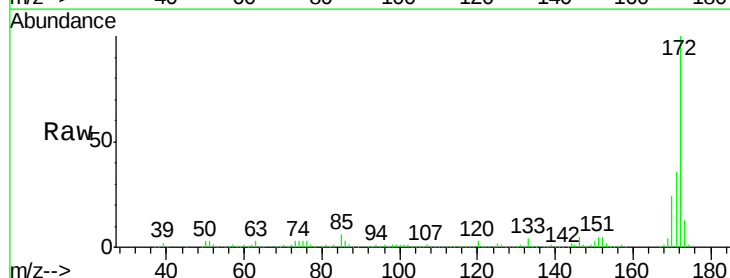
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 77.0  | 115.6 |
| 141     | 28.7  | 29.9  | 44.9# |



#44  
 2-Fluorobiphenyl  
 Concen: 103.76 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.01 min  
 Lab File: BF100810.D  
 Acq: 22 Nov 2017 5:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.7  | 44.5  |
| 170     | 23.7  | 19.6  | 29.4  |

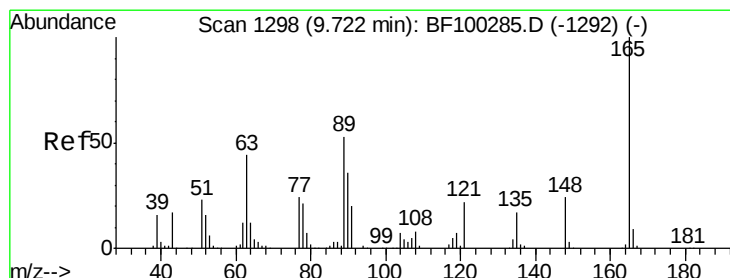
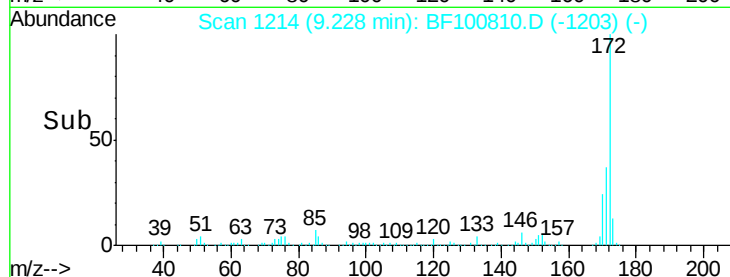
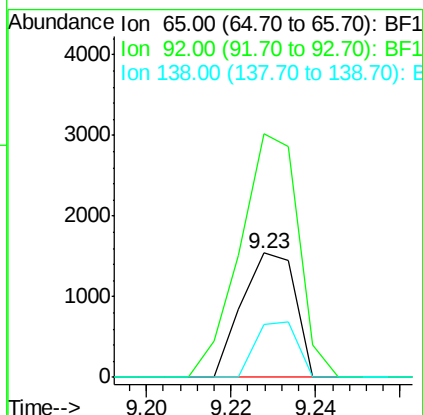
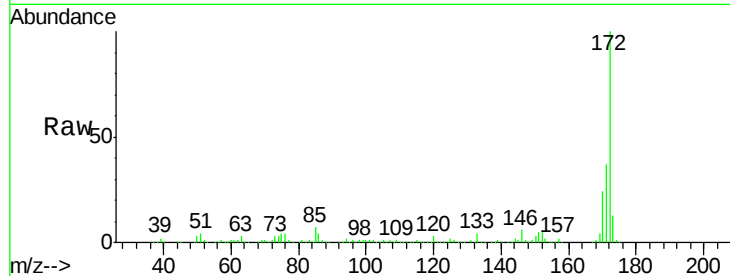




#47  
2-Nitroaniline  
Concen: 3.26 ng  
RT: 9.23 min Scan# 1214  
Delta R.T. -0.24 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

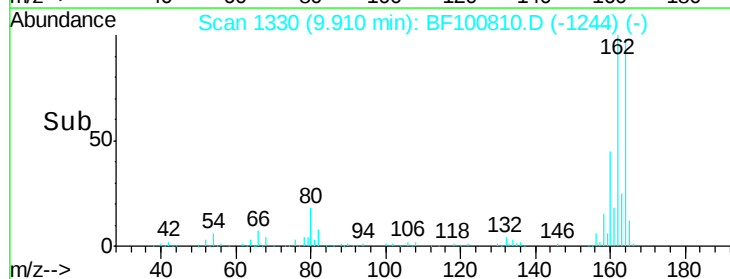
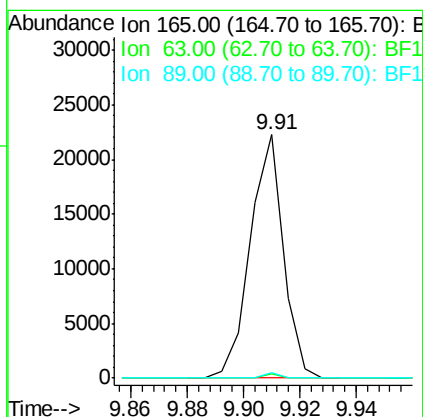
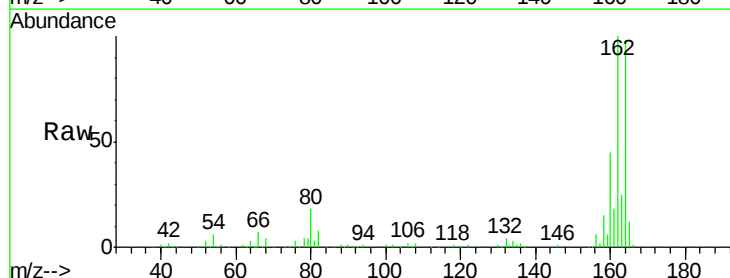
Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion   | 65  | 92    | 138    | Resp  | 1358  |
|-----------|-----|-------|--------|-------|-------|
| Ion Ratio | 100 | 195.7 | 42.8   | Lower | Upper |
|           |     | 55.8  | 91.2   |       |       |
|           |     | 83.6# | 136.8# |       |       |



#50  
2,6-Dinitrotoluene  
Concen: 8.24 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. 0.21 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

| Tgt Ion   | 165 | 63    | 89    | Resp  | 18125 |
|-----------|-----|-------|-------|-------|-------|
| Ion Ratio | 100 | 1.5   | 2.0   | Lower | Upper |
|           |     | 44.7  | 44.0  |       |       |
|           |     | 67.1# | 66.0# |       |       |

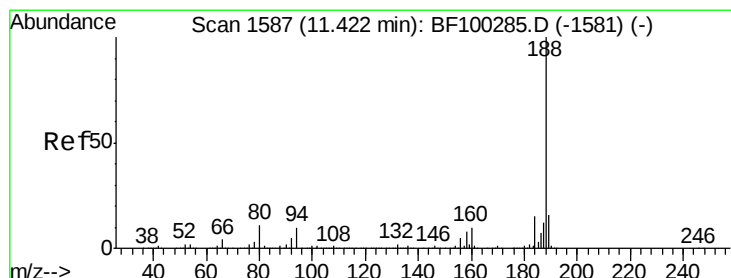
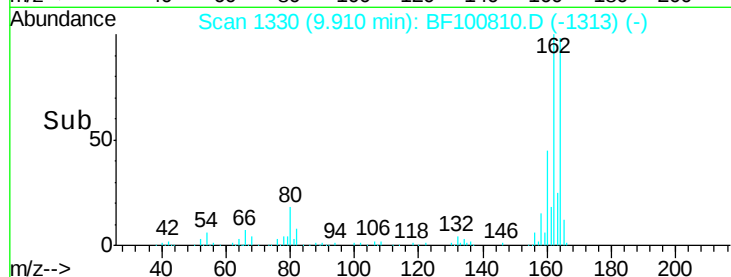
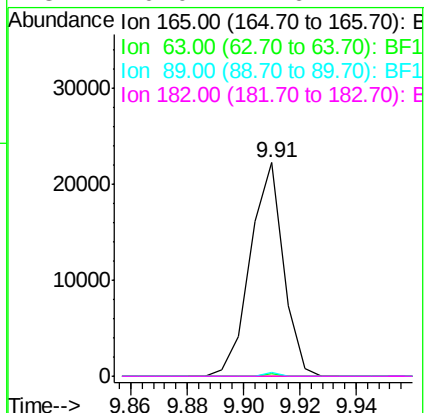
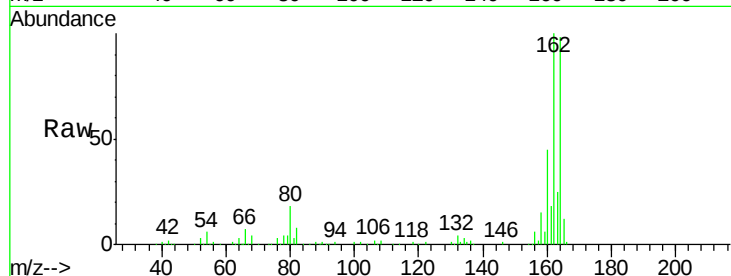




#56  
2,4-Dinitrotoluene  
Concen: 6.53 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.20 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

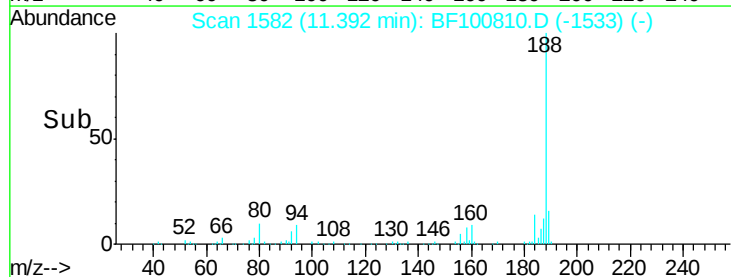
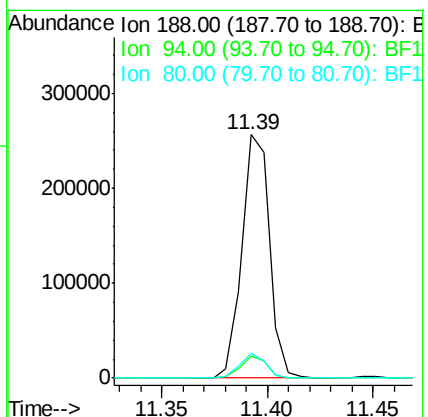
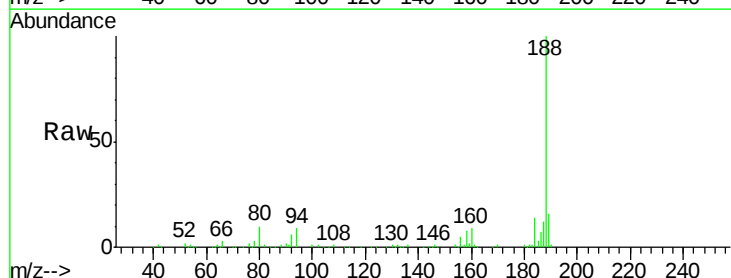
Instrument :  
BNA\_F  
ClientSampleId :

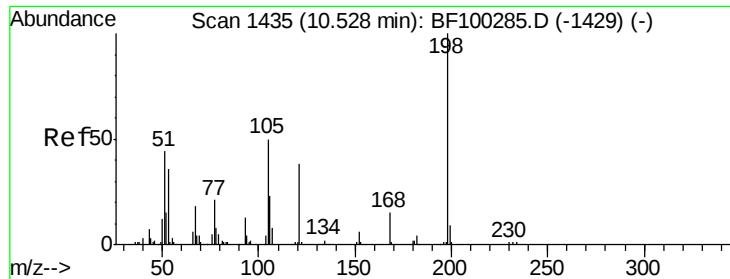
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 36.4  | 54.6# |
| 89      | 2.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.01 min  
Lab File: BF100810.D  
Acq: 22 Nov 2017 5:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 8.5   | 12.7  |
| 80      | 10.2  | 9.2   | 13.8  |

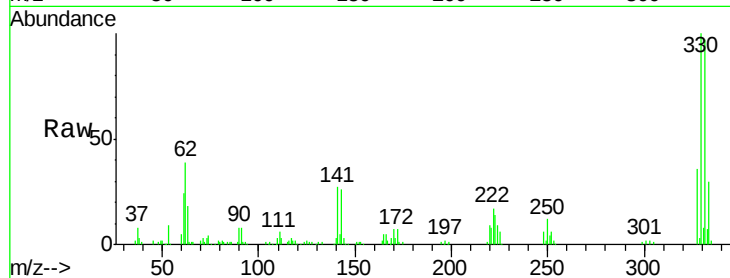




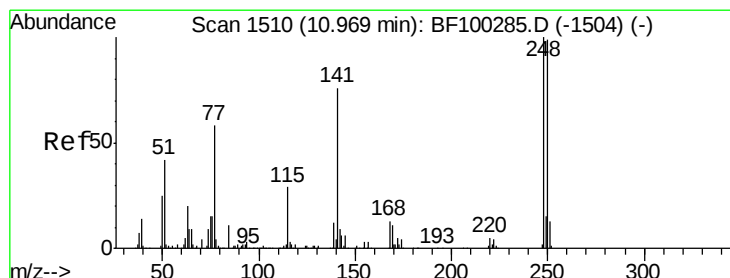
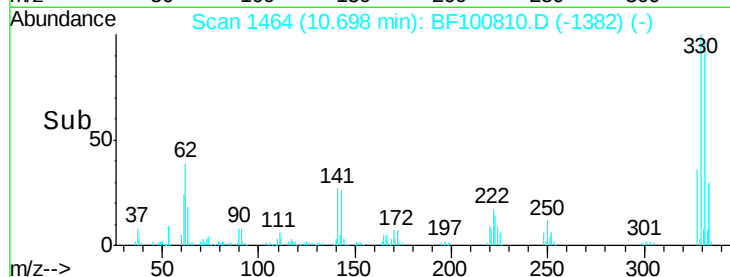
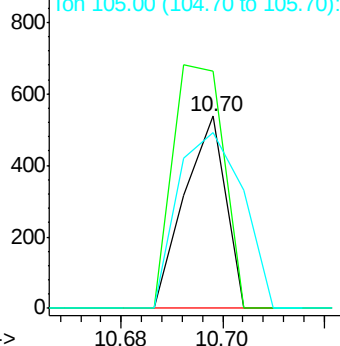
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.78 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. 0.18 min  
 Lab File: BF100810.D  
 Acq: 22 Nov 2017 5:33

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 301  
 Ion Ratio Lower Upper  
 198 100  
 51 123.5 37.7 77.7#  
 105 91.4 36.3 76.3#

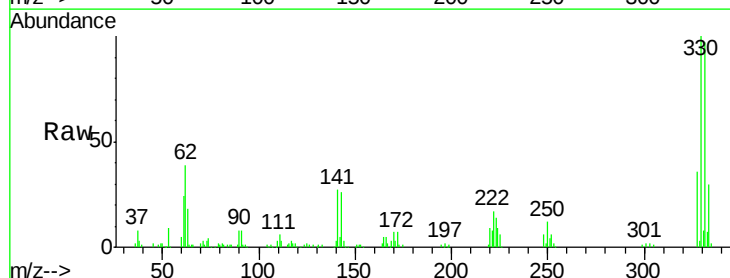


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

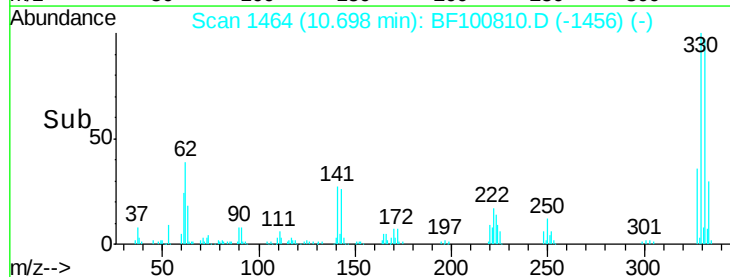
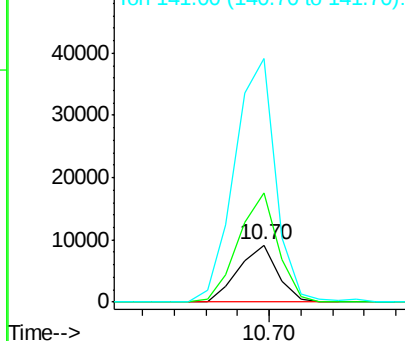


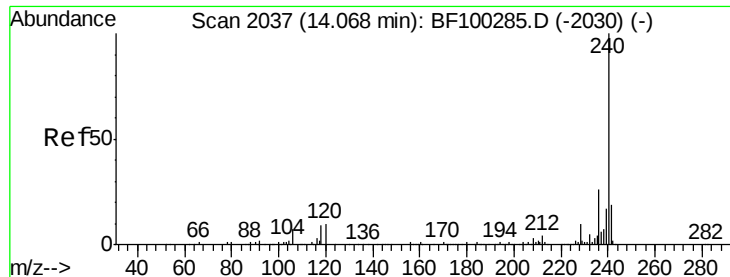
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.11 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.25 min  
 Lab File: BF100810.D  
 Acq: 22 Nov 2017 5:33

Tgt Ion:248 Resp: 7729  
 Ion Ratio Lower Upper  
 248 100  
 250 190.7 76.9 115.3#  
 141 426.9 74.4 111.6#



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

Instrument :

BNA\_F

ClientSampleId :

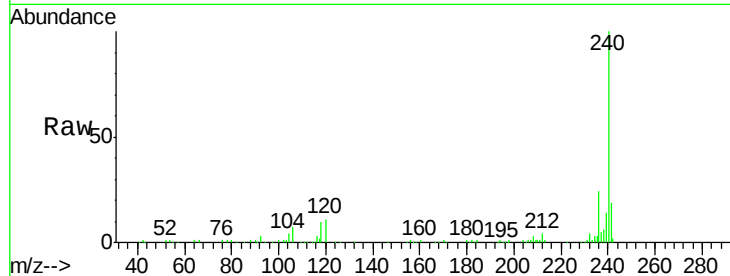
Tot Ion:240 Resp: 171870

Ion Ratio Lower Upper

240 100

120 11.3 9.5 14.3

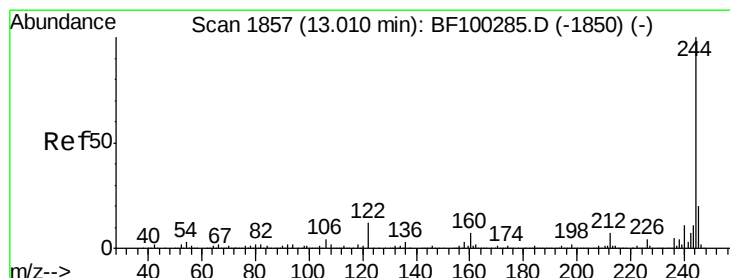
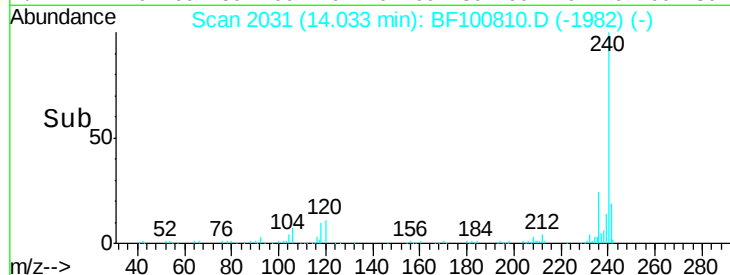
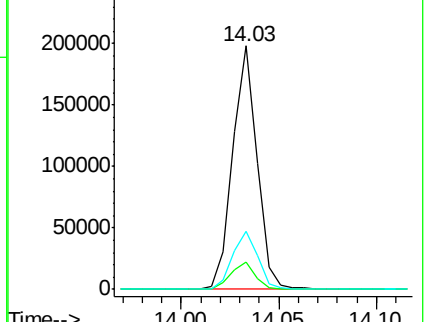
236 23.9 20.7 31.1



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: 84.64 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF100810.D

Acq: 22 Nov 2017 5:33

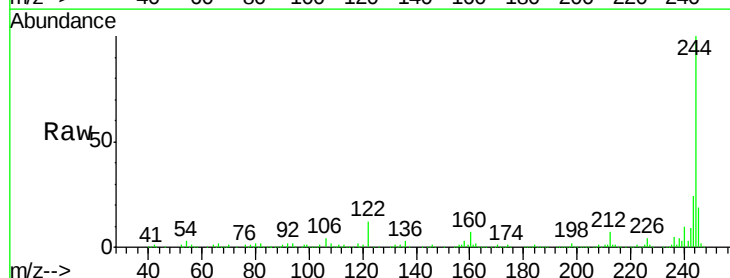
Tgt Ion:244 Resp: 633078

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

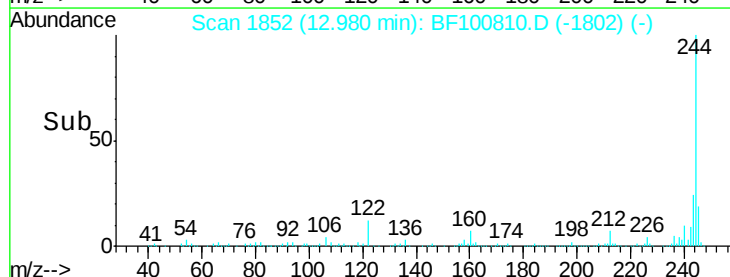
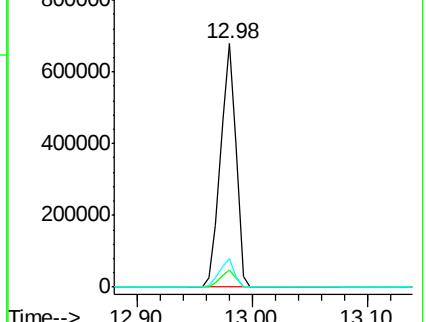
122 11.6 11.0 16.4

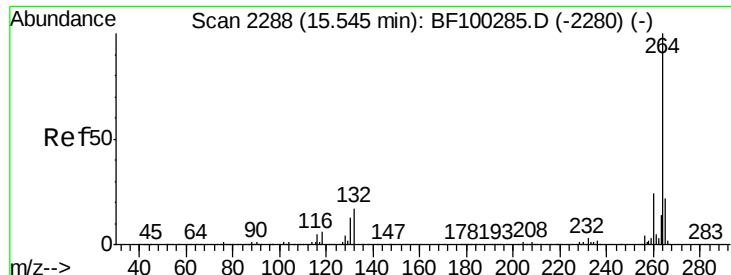


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

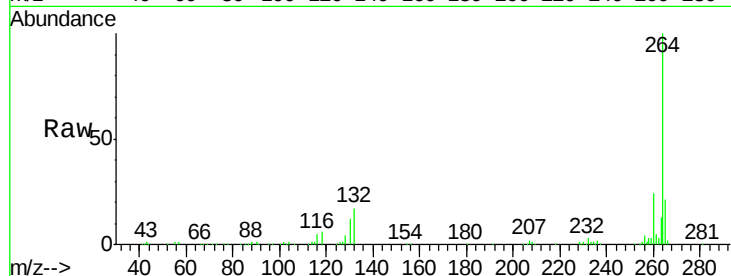




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.51 min Scan# 2282  
 Delta R.T. -0.01 min  
 Lab File: BF100810.D  
 Acq: 22 Nov 2017 5:33

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 151982 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.0  | 19.2  | 28.8   |
| 265      | 21.5  | 17.5  | 26.3   |



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

