

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\  
 Data File : BF104513.D  
 Acq On : 14 Apr 2018 8:52  
 Operator : JU/SJ  
 Sample : J2368-07  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 16 00:41:25 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 13 17:38:31 2018  
 Response via : Initial Calibration

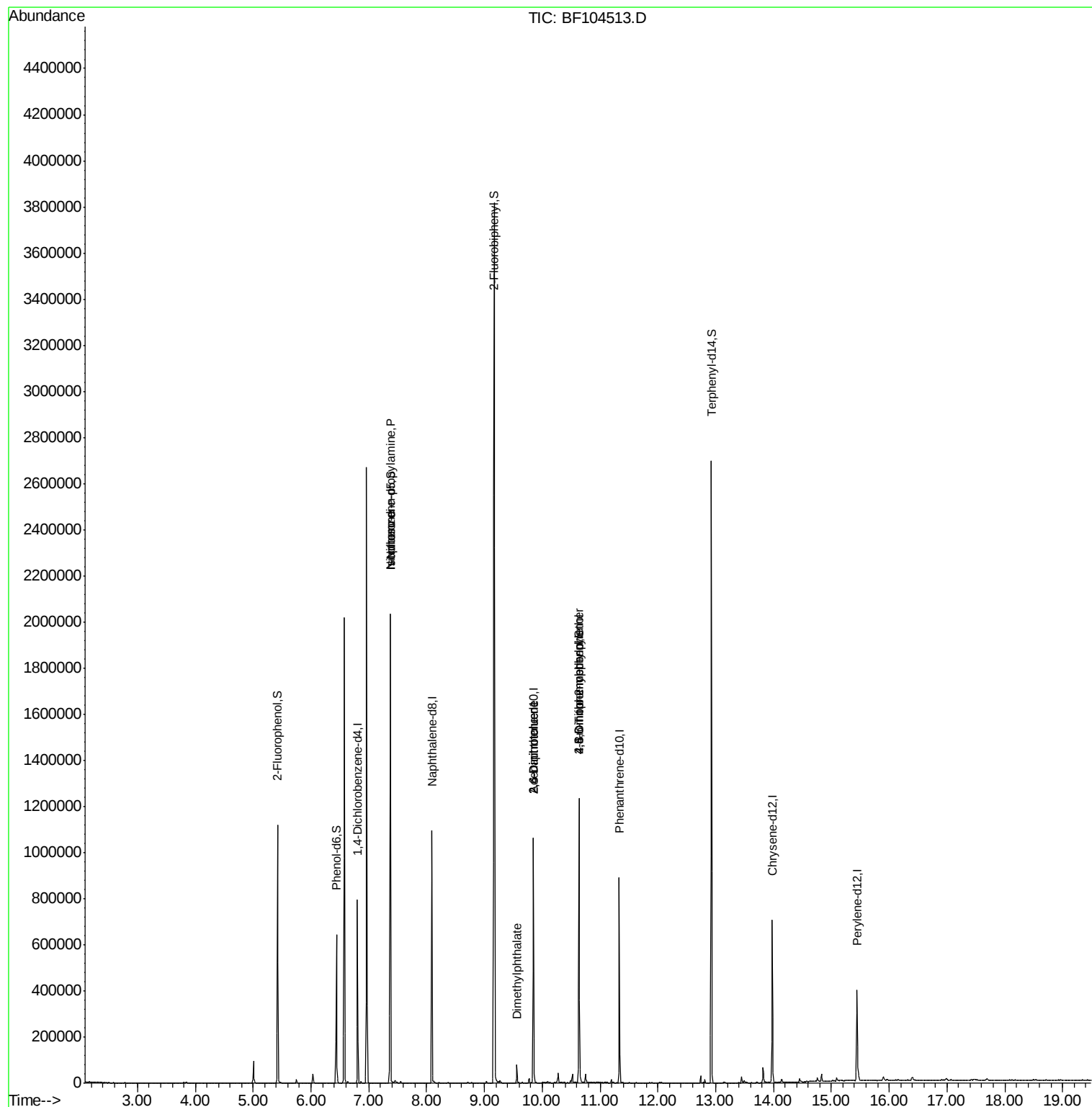
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 122054   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 479806   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 203243   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.33 | 188  | 301440   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.98 | 240  | 228974   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.44 | 264  | 178544   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 304179   | 38.11     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 222214   | 22.66     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 720425   | 98.04     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 155959   | 73.97     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1237107  | 96.16     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 895310   | 89.14     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 94212    | 14.700    | ng    | # 74     |
| 25) Isophorone                 | 7.37  | 82   | 720416   | 46.364    | ng    | # 64     |
| 49) Dimethylphthalate          | 9.56  | 163  | 36339    | 2.267     | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 25212    | 8.501     | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 25212    | 6.481     | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 136      | 7.425     | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 9780     | 3.050     | ng    | # 1      |
| 76) Benzidine                  | 12.93 | 184  | 11564    | Below Cal |       | # 95     |

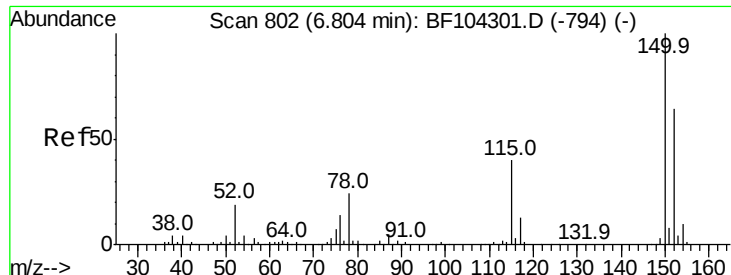
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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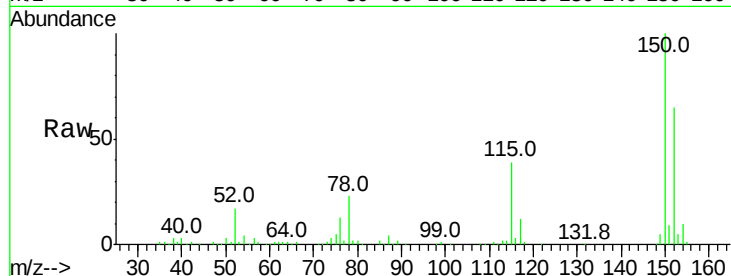


#1

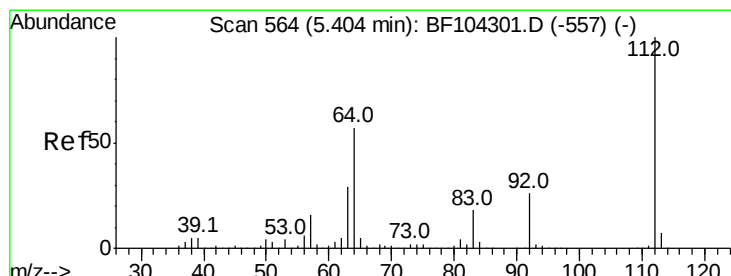
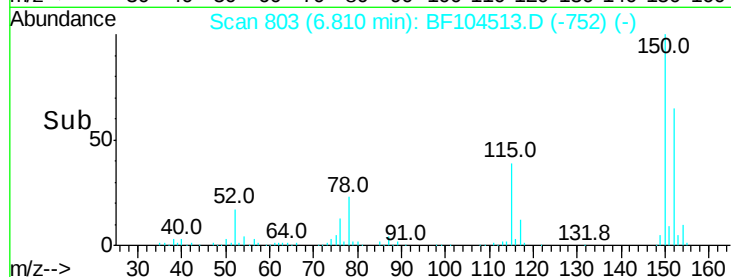
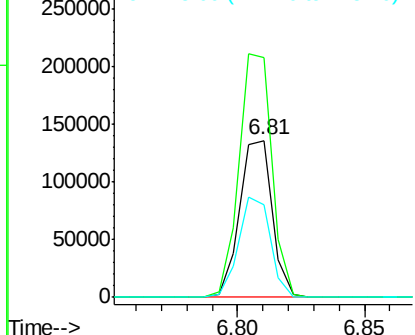
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 122054  
 Ion Ratio Lower Upper  
 152 100  
 150 153.0 124.6 186.8  
 115 59.2 50.1 75.1



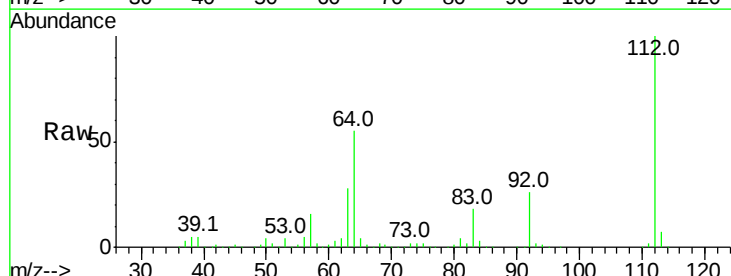
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



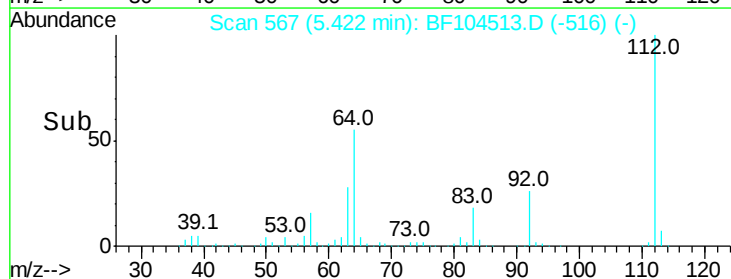
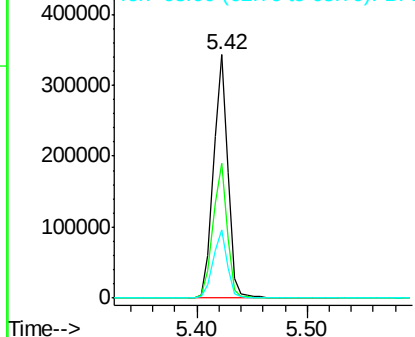
#5

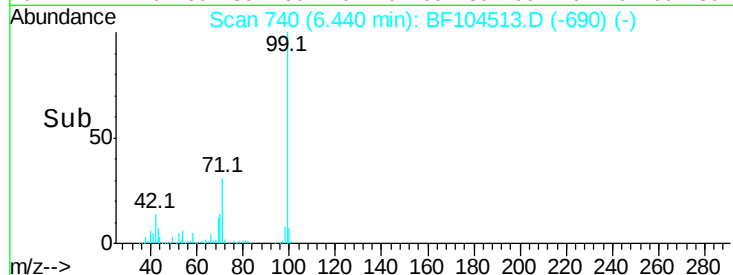
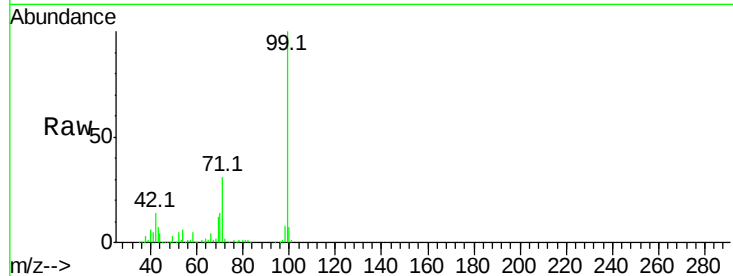
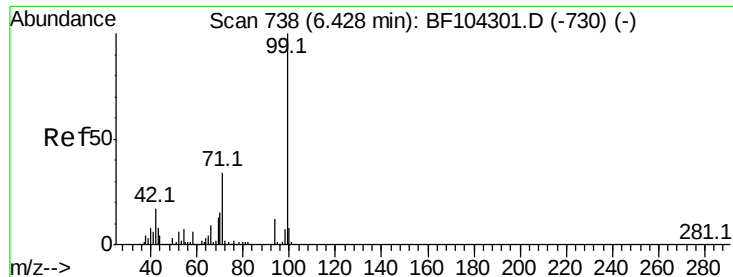
2-Fluorophenol  
 Concen: 38.107 ng  
 RT: 5.42 min Scan# 567  
 Delta R.T. 0.00 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

Tgt Ion:112 Resp: 304179  
 Ion Ratio Lower Upper  
 112 100  
 64 55.1 47.9 71.9  
 63 28.2 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





#7

Phenol-d6

Concen: 22.657 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

Instrument :

BNA\_F

ClientSampleId :

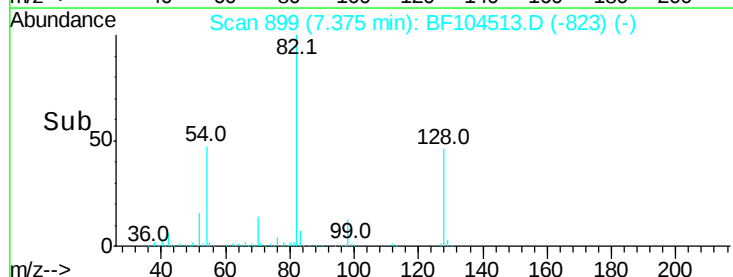
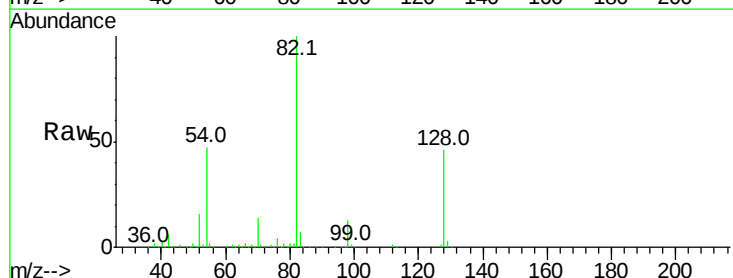
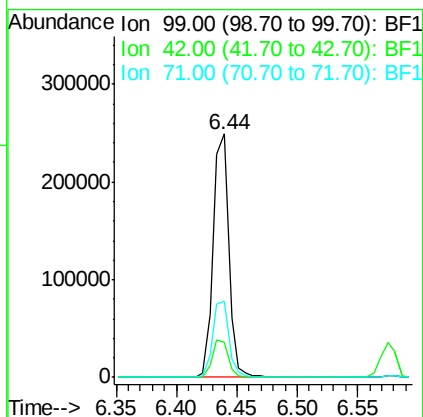
Tot Ion: 99 Resp: 222214

Ion Ratio Lower Upper

99 100

42 14.3 14.5 21.7#

71 31.3 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.700 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

Tgt Ion: 70 Resp: 94212

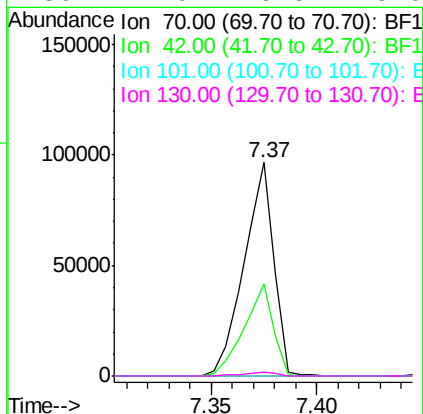
Ion Ratio Lower Upper

70 100

42 43.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

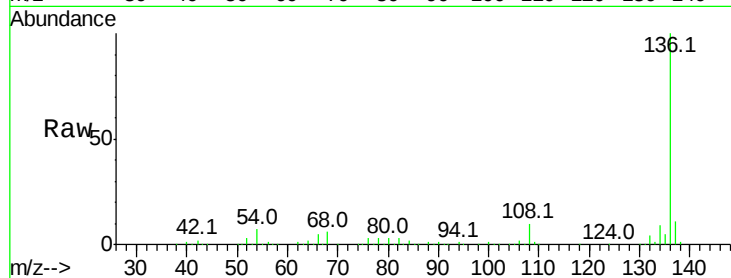




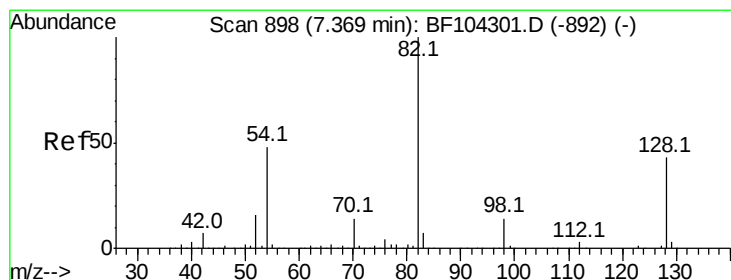
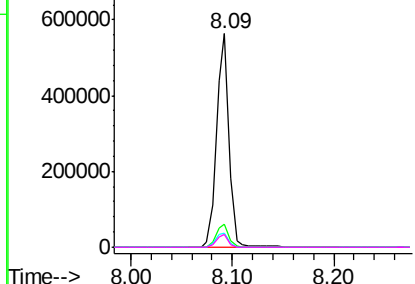
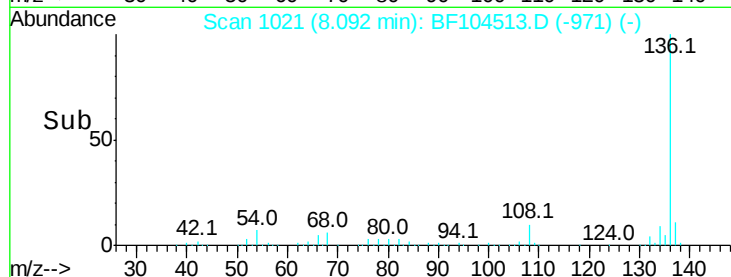
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF104513.D  
Acq: 14 Apr 2018 8:52

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 479806 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 6.6   | 6.6   | 9.8    |
| 68       | 5.8   | 5.0   | 7.4    |

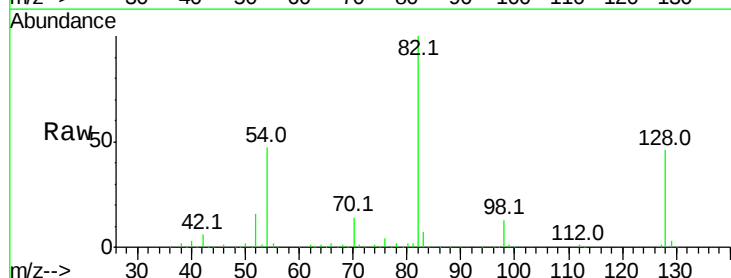


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

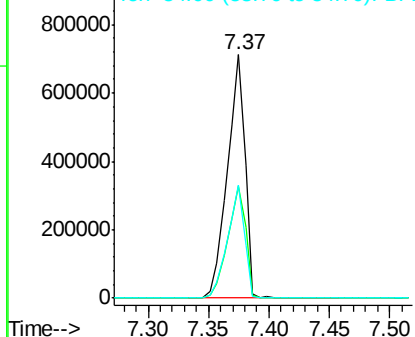
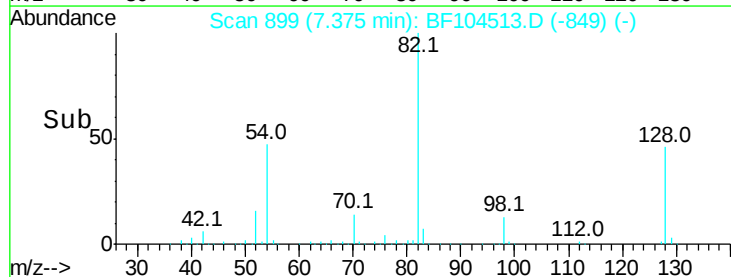


#23  
Nitrobenzene-d5  
Concen: 98.045 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF104513.D  
Acq: 14 Apr 2018 8:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 720425 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.0  | 36.1  | 54.1   |
| 54       | 46.6  | 41.4  | 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 46.364 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

Instrument :

BNA\_F

ClientSampleId :

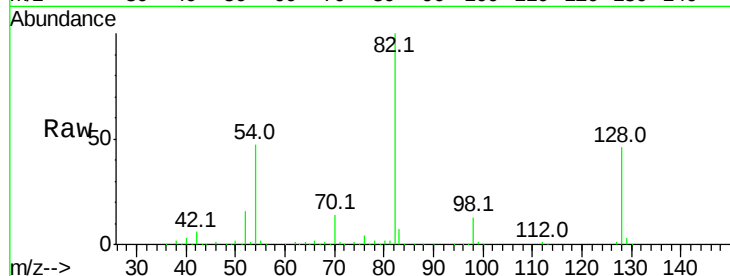
Tot Ion: 82 Resp: 720416

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

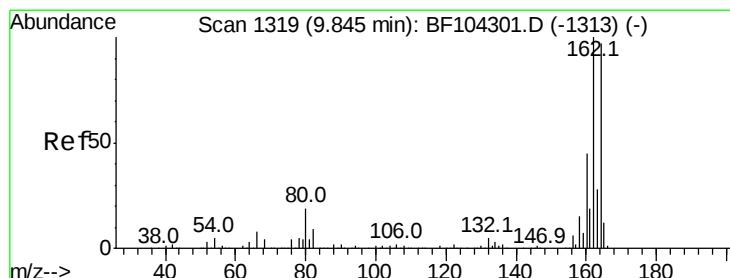
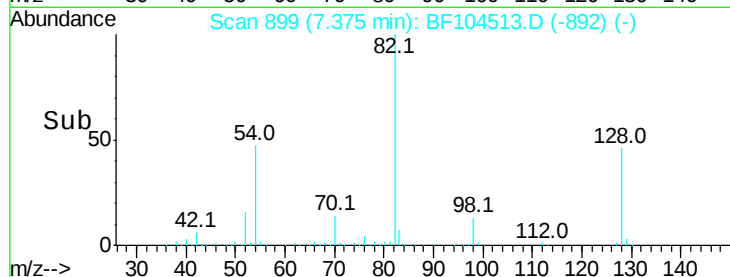
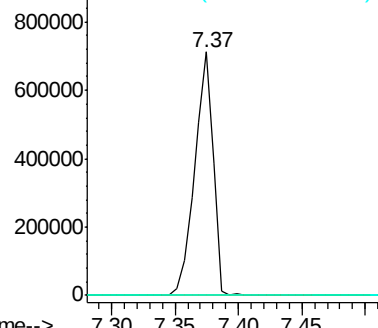
138 0.0 14.9 22.3#



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: 20.000 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

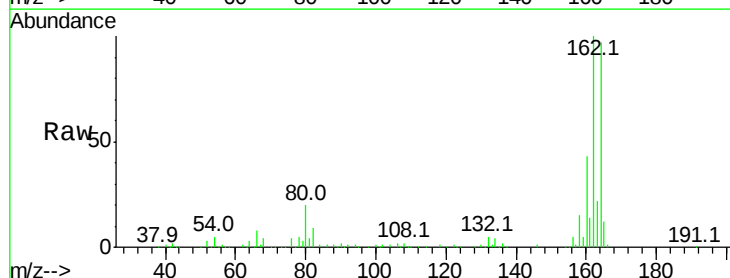
Tgt Ion:164 Resp: 203243

Ion Ratio Lower Upper

164 100

162 103.6 86.1 129.1

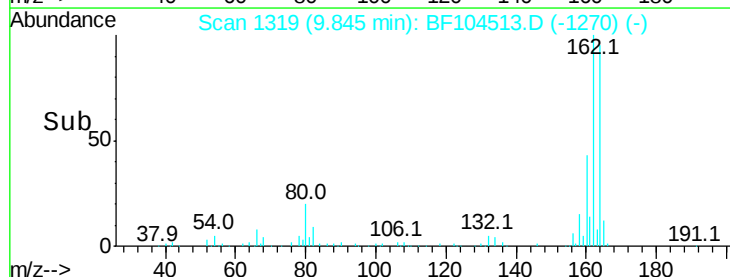
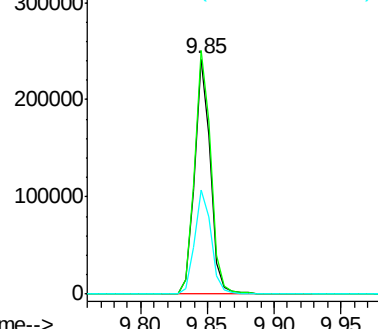
160 44.5 38.3 57.5



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

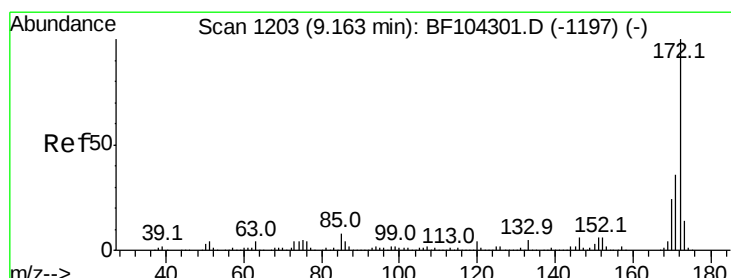
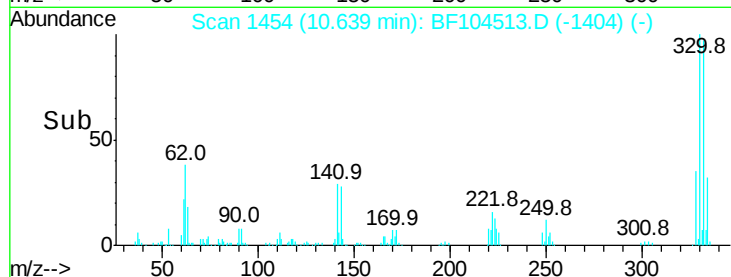
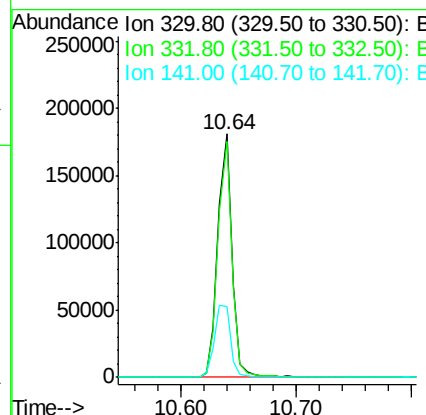
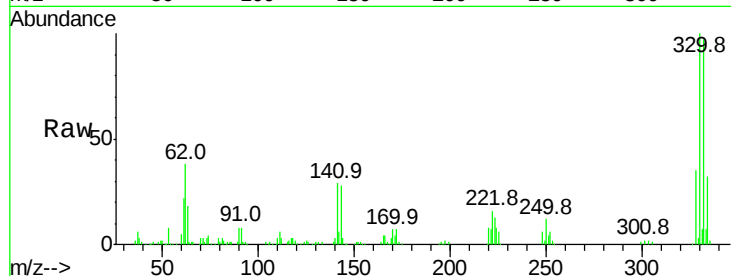




#41  
 2,4,6-Tribromophenol  
 Concen: 73.974 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.01 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

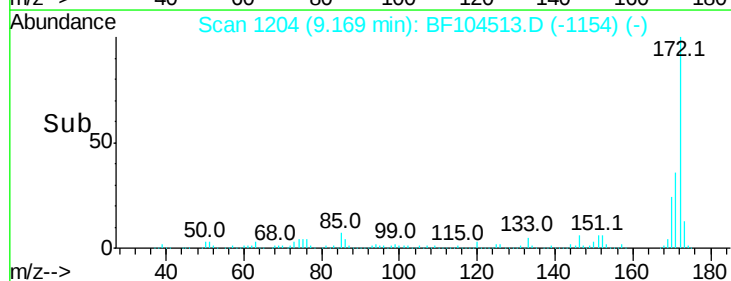
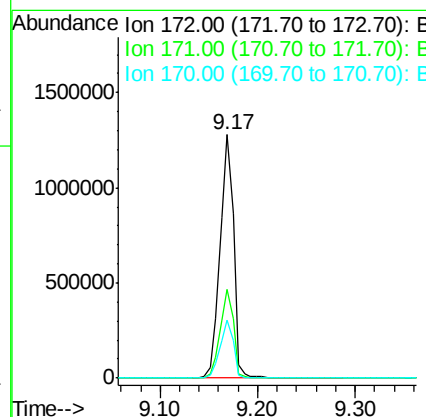
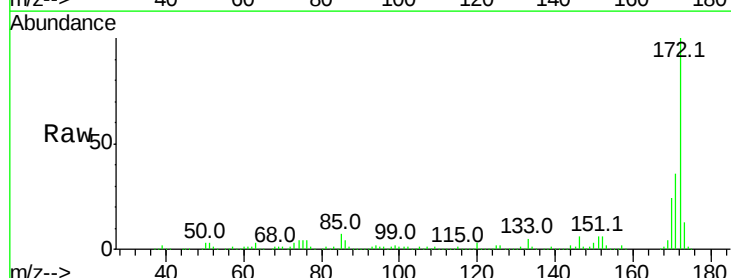
Instrument :  
 BNA\_F  
 ClientSampled :

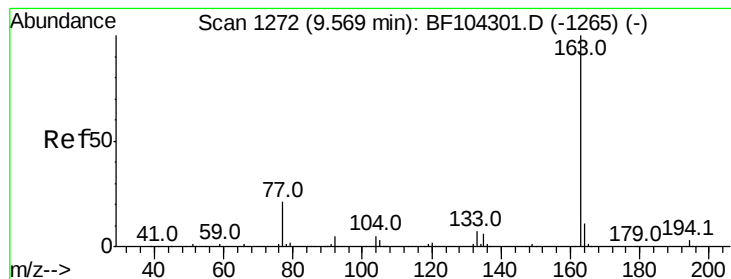
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.4  | 77.0  | 115.6 |
| 141     | 33.5  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 96.157 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.01 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 29.7  | 44.5  |
| 170     | 24.0  | 19.6  | 29.4  |





#49

Dimethylphthalate

Concen: 2.267 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

Instrument :

BNA\_F

ClientSampleId :

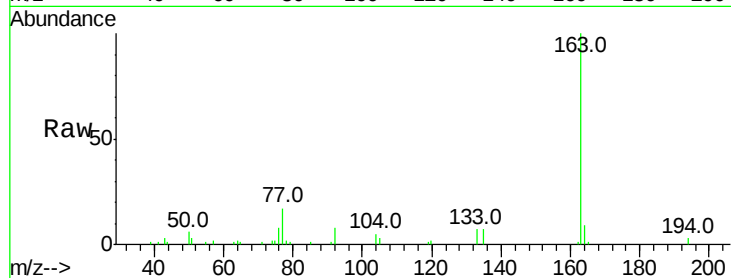
Tot Ion:163 Resp: 36339

Ion Ratio Lower Upper

163 100

194 3.5 2.7 4.1

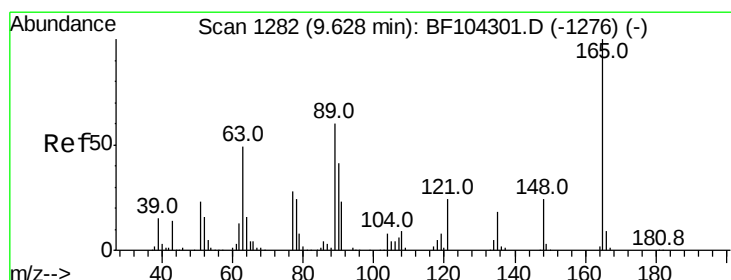
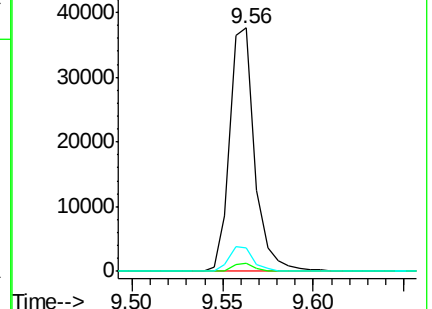
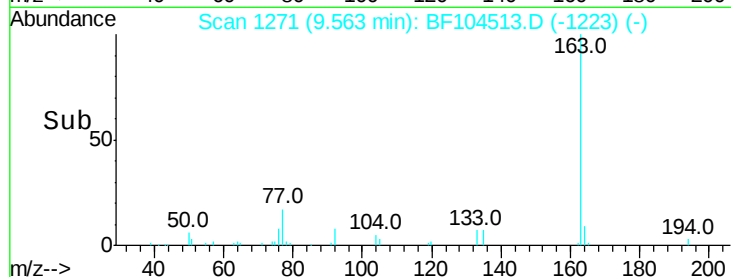
164 9.5 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.501 ng

RT: 9.85 min Scan# 1319

Delta R.T. 0.21 min

Lab File: BF104513.D

Acq: 14 Apr 2018 8:52

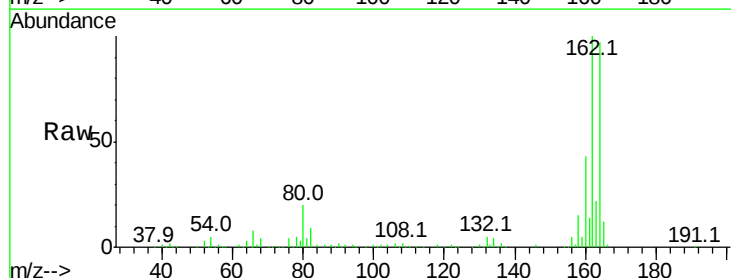
Tgt Ion:165 Resp: 25212

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

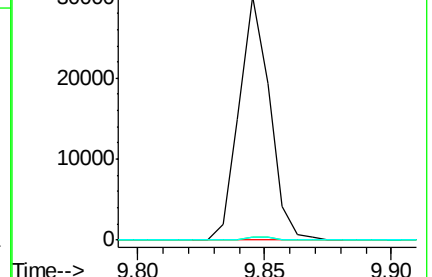
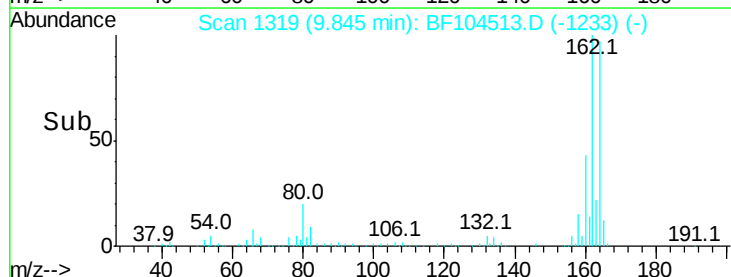
89 1.3 44.0 66.0#

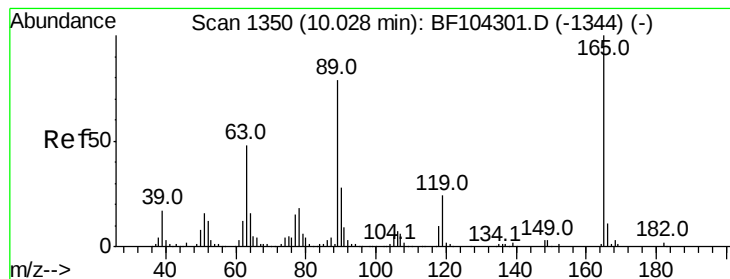


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

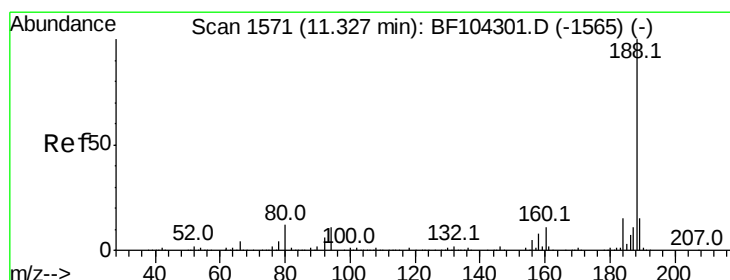
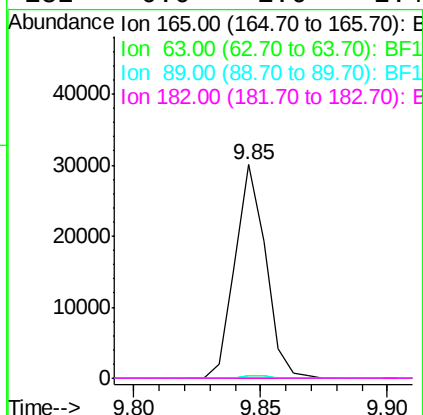
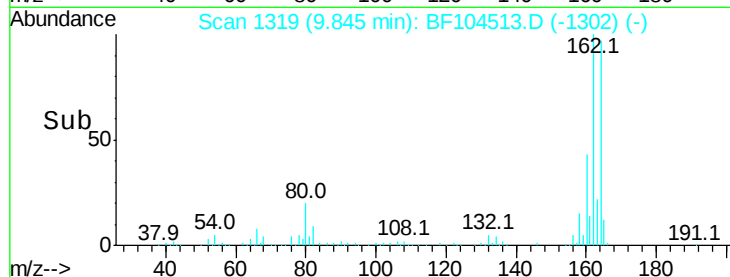
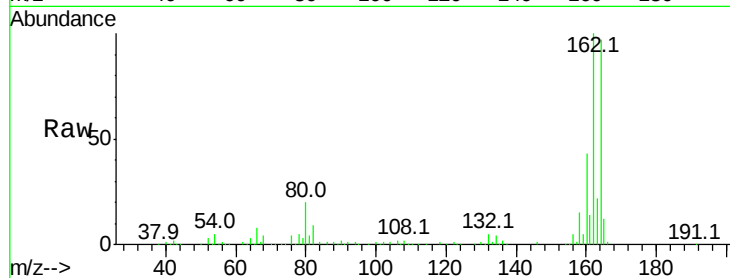




#56  
 2,4-Dinitrotoluene  
 Concen: 6.481 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.20 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

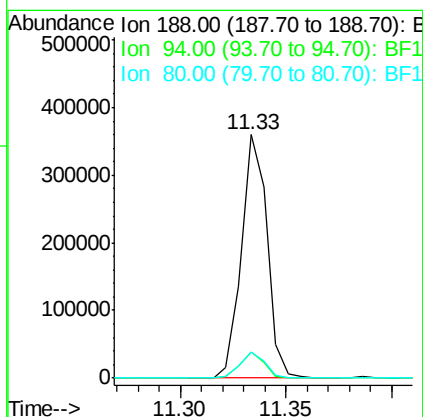
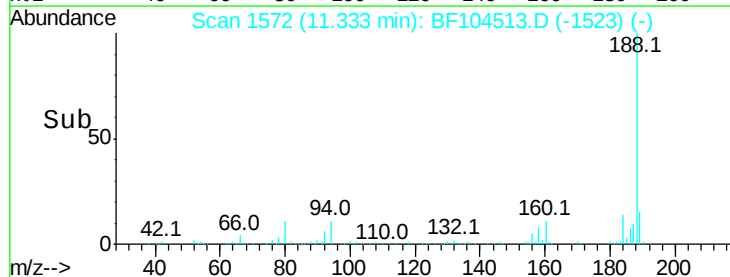
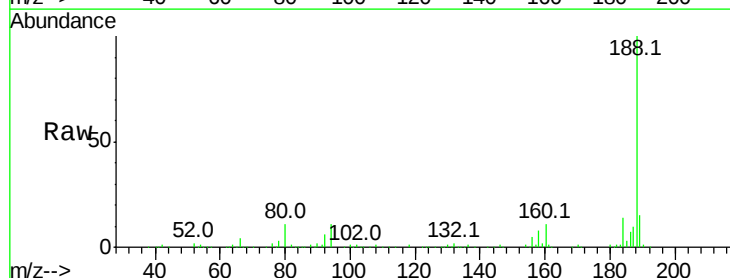
Instrument :  
 BNA\_F  
 ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 165   | Resp: | 25212 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.4   | 36.4  | 54.6# |
| 89        | 1.3   | 57.8  | 86.6# |
| 182       | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.01 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 301440 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 10.6  | 8.5   | 12.7   |
| 80        | 10.9  | 9.2   | 13.8   |

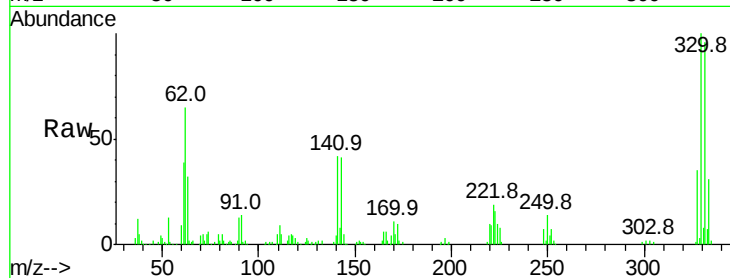




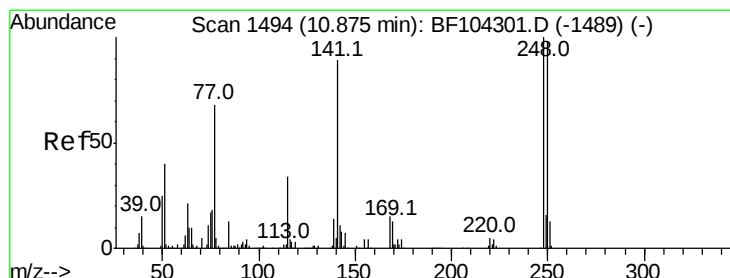
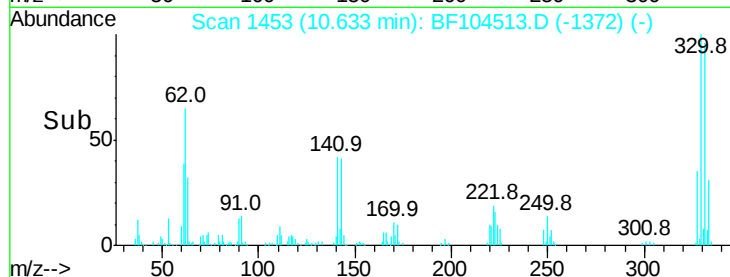
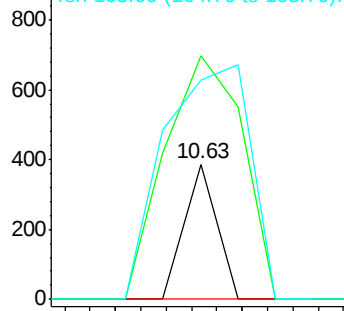
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.425 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.18 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion   | 198   | Resp  | 136   |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 51        | 180.6 | 37.7  | 77.7# |
| 105       | 162.4 | 36.3  | 76.3# |

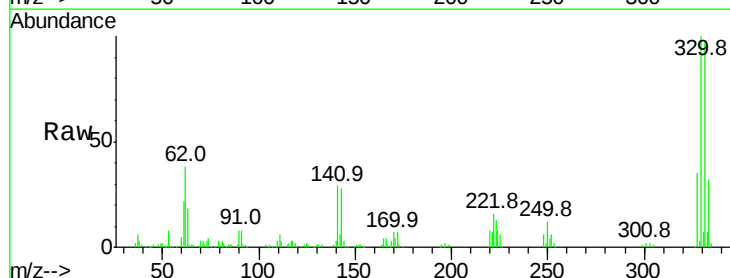


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

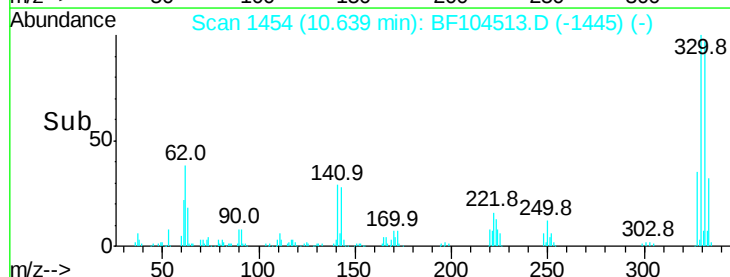
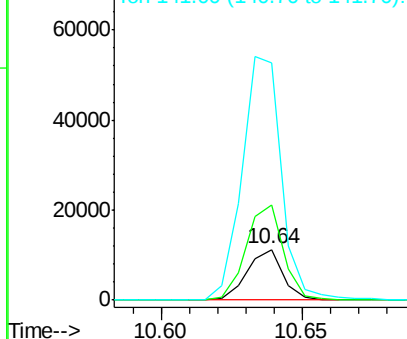


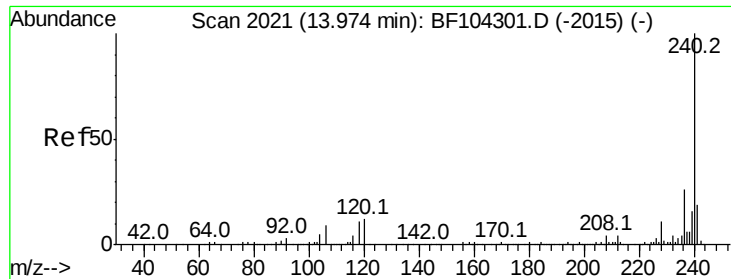
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.050 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.25 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

| Tgt Ion   | 248   | Resp  | 9780   |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 250       | 187.8 | 76.9  | 115.3# |
| 141       | 469.4 | 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

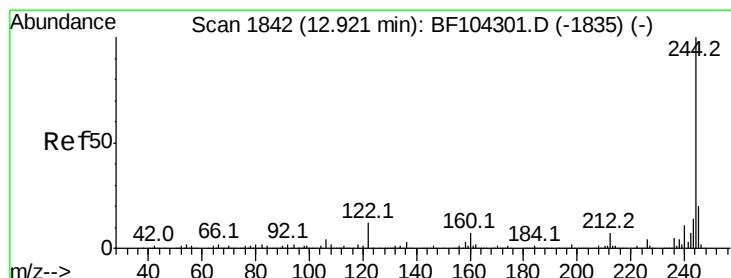
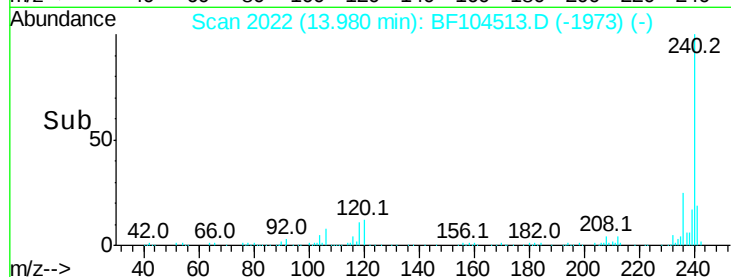
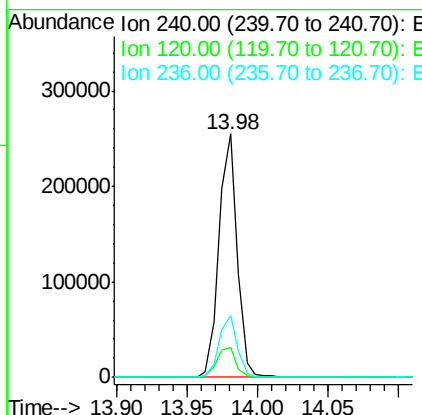
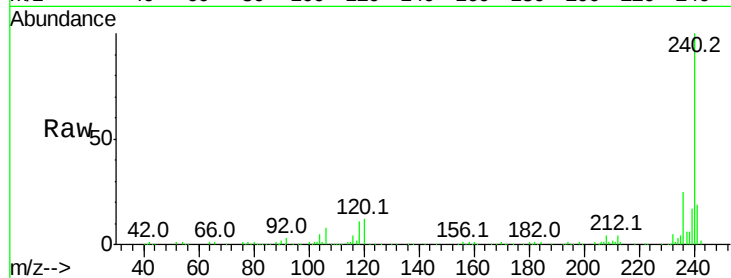




#75  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 13.98 min Scan# 2022  
 Delta R.T. -0.01 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

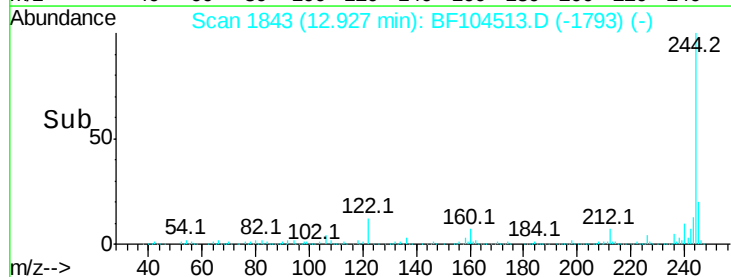
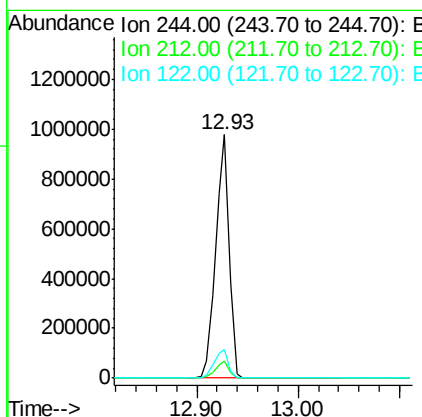
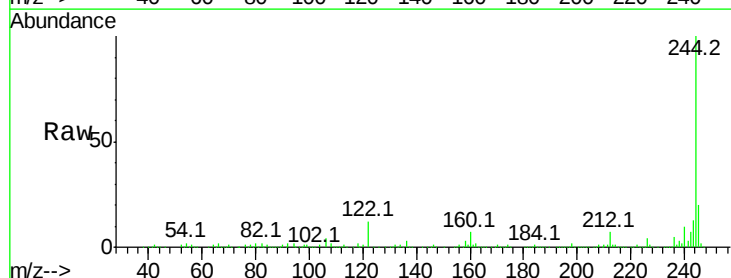
Instrument :  
 BNA\_F  
 ClientSampleId :

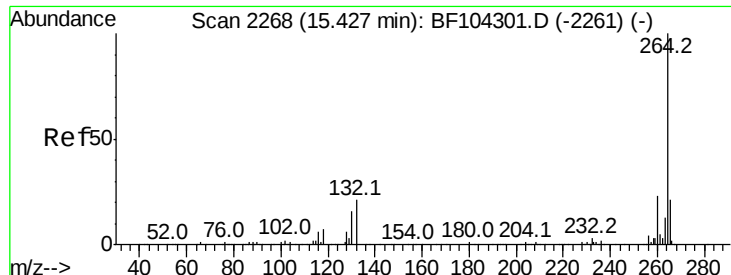
Tot Ion:240 Resp: 228974  
 Ion Ratio Lower Upper  
 240 100  
 120 12.0 9.5 14.3  
 236 25.2 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 89.143 ng  
 RT: 12.93 min Scan# 1843  
 Delta R.T. -0.01 min  
 Lab File: BF104513.D  
 Acq: 14 Apr 2018 8:52

Tgt Ion:244 Resp: 895310  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.0  
 122 11.8 11.0 16.4

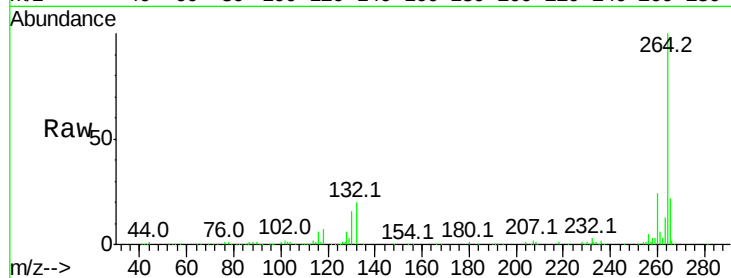




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2271  
Delta R.T. -0.01 min  
Lab File: BF104513.D  
Acq: 14 Apr 2018 8:52

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 21.6  | 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

