

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011718\  
 Data File : BF102157.D  
 Acq On : 17 Jan 2018 18:33  
 Operator : SJ/JU  
 Sample : J1152-04  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 18 01:08:17 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 17 15:28:18 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 126356   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 486693   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.75  | 164  | 187111   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.23 | 188  | 252909   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.86 | 240  | 226452   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.28 | 264  | 252730   | 20.00 | ng    | 0.00     |

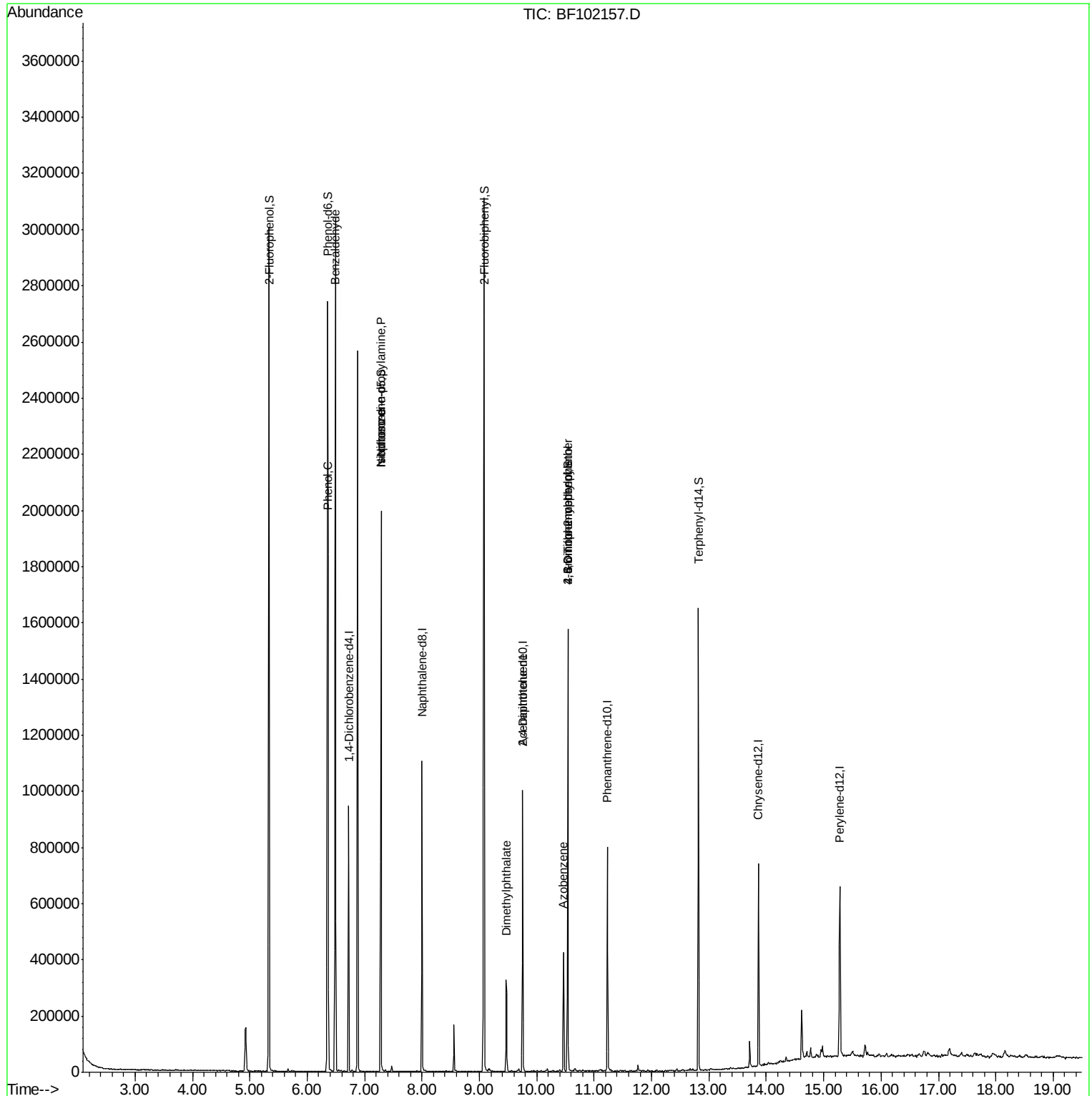
| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 853110   | 95.34 | ng    | 0.01     |
| 7) Phenol-d6                | 6.36  | 99   | 1010566  | 94.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 617955   | 74.61 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.54 | 330  | 162962   | 99.80 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 953603   | 79.62 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.82 | 244  | 561229   | 51.46 | ng    | 0.00     |

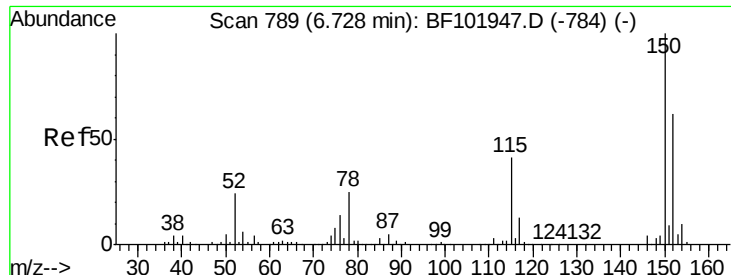
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.49  | 77   | 18317    | 2.471  | ng    | 92     |
| 10) Phenol                     | 6.37  | 94   | 43574    | 3.612  | ng    | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 81196    | 11.605 | ng    | # 80   |
| 25) Isophorone                 | 7.29  | 82   | 615831   | 37.631 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.47  | 163  | 124222   | 8.276  | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 23410    | 6.229  | ng    | # 24   |
| 62) Azobenzene                 | 10.46 | 77   | 76335    | 5.139  | ng    | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.54 | 198  | 163      | 5.767  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 10103    | 3.783  | ng    | # 1    |

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

```
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Acq On    : 17 Jan 2018   18:33  
Operator  : SJ/JU  
Sample    : J1152-04  
Misc      :  
ALS Vial  : 12      Sample Multiplier: 1
```

Quant Time: Jan 18 01:08:17 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 17 15:28:18 2018  
Response via : Initial Calibration



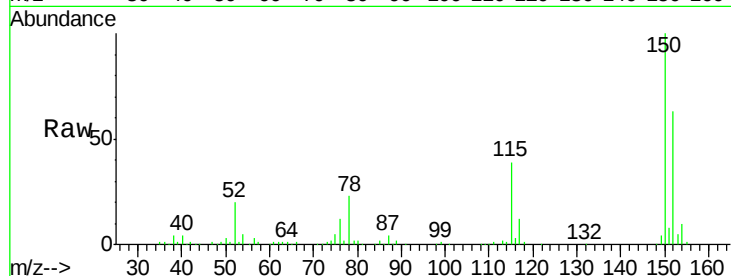


#1

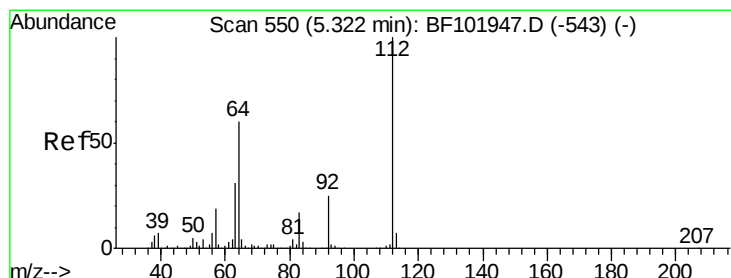
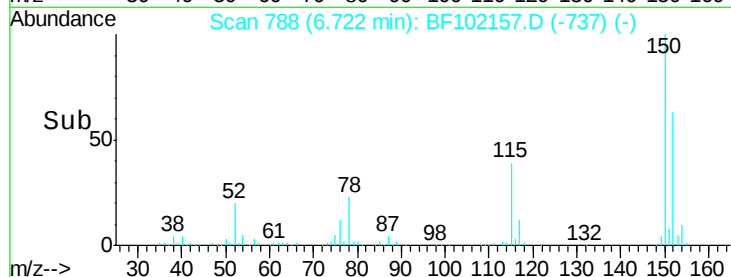
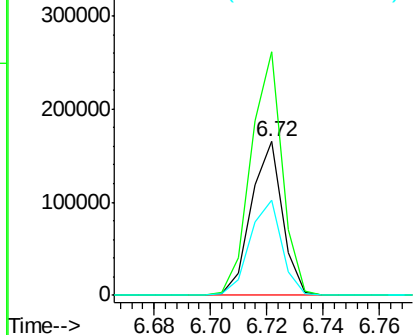
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. -0.00 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.5 | 124.6 | 186.8 |
| 115     | 61.5  | 50.1  | 75.1  |



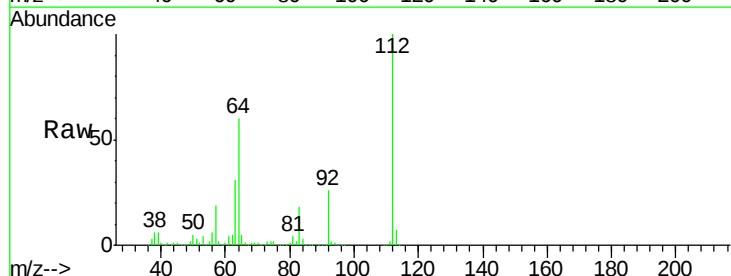
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



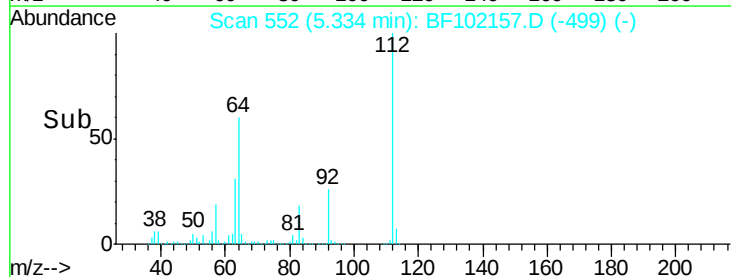
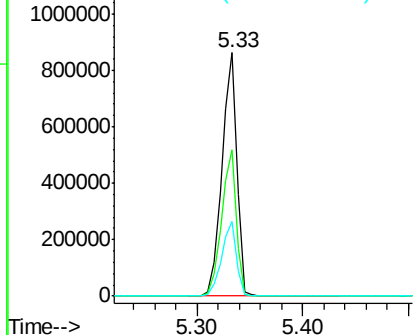
#5

2-Fluorophenol  
Concen: 95.339 ng  
RT: 5.33 min Scan# 552  
Delta R.T. 0.01 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.1  | 47.9  | 71.9  |
| 63      | 30.9  | 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: 94.657 ng

RT: 6.36 min Scan# 726

Delta R.T. -0.00 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Instrument :

BNA\_F

ClientSampleId :

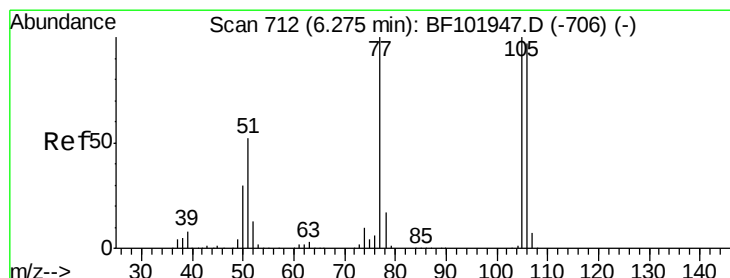
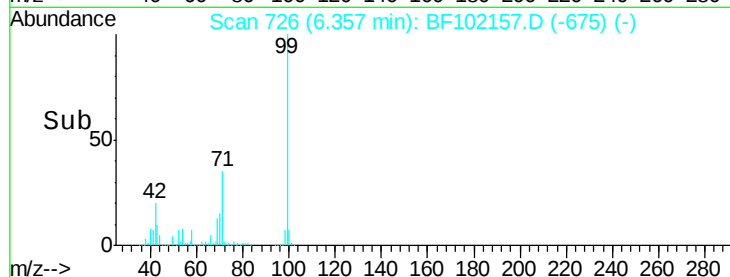
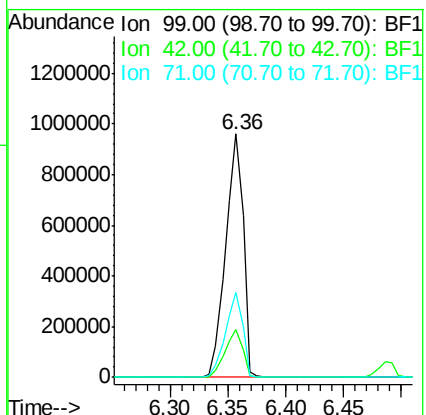
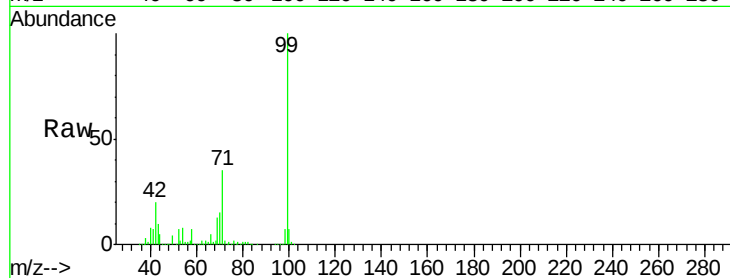
Tot Ion: 99 Resp: 1010566

Ion Ratio Lower Upper

99 100

42 19.8 14.5 21.7

71 34.7 25.4 38.0



#9

Benzaldehyde

Concen: 2.471 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.22 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

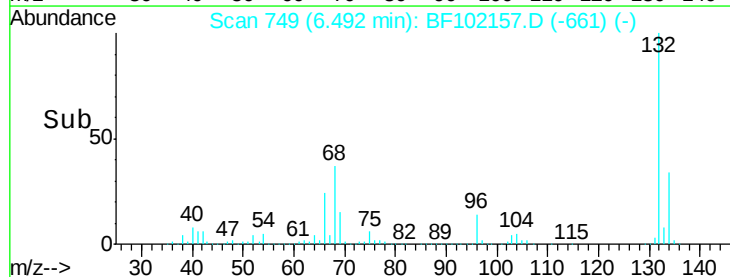
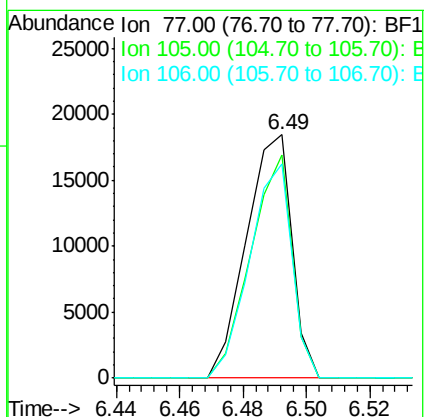
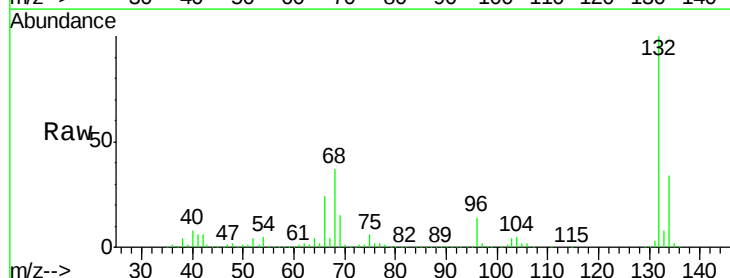
Tgt Ion: 77 Resp: 18317

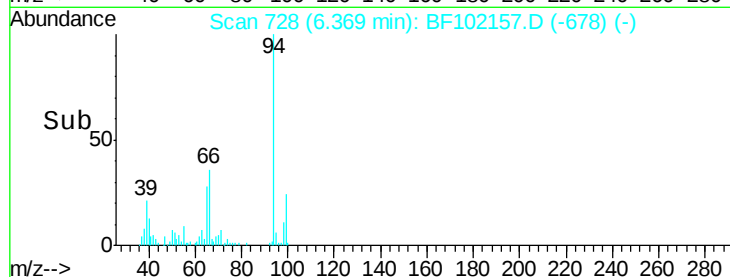
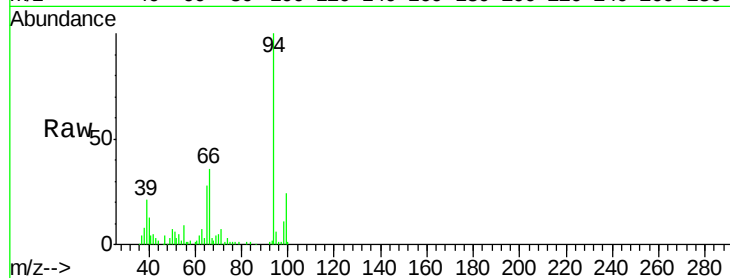
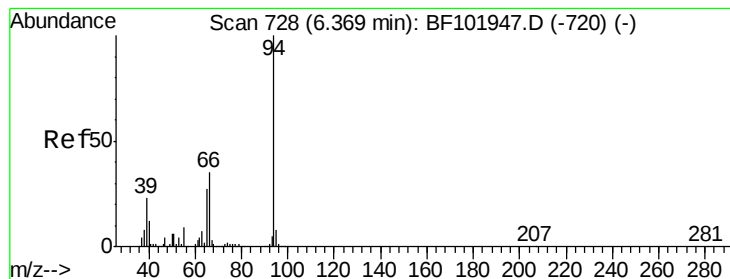
Ion Ratio Lower Upper

77 100

105 91.5 81.1 121.1

106 88.0 74.5 114.5





#10

Phenol

Concen: 3.612 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Instrument :

BNA\_F

ClientSampled :

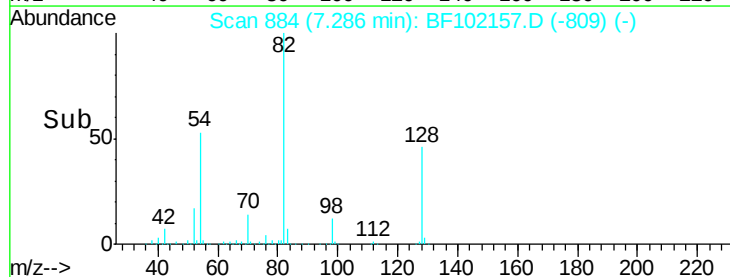
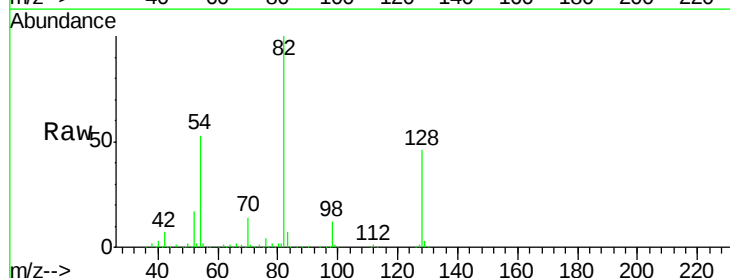
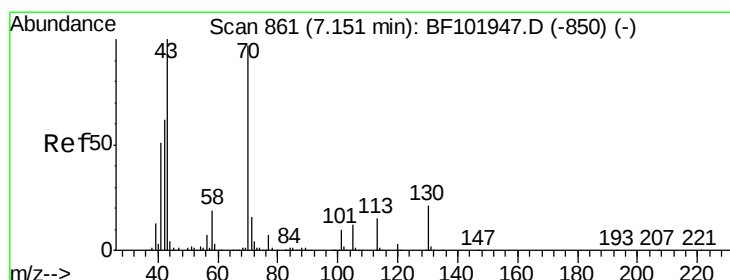
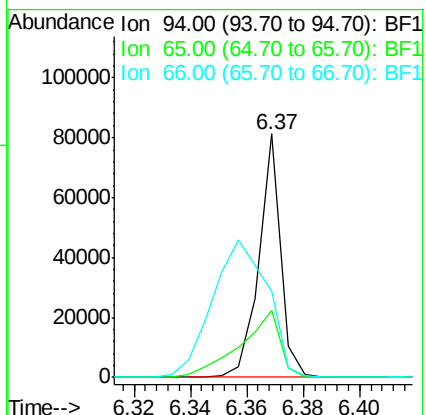
Tot Ion: 94 Resp: 43574

Ion Ratio Lower Upper

94 100

65 27.6 7.9 47.9

66 35.6 16.2 56.2



#19

n-Nitroso-di-n-propylamine

Concen: 11.605 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.14 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Tgt Ion: 70 Resp: 81196

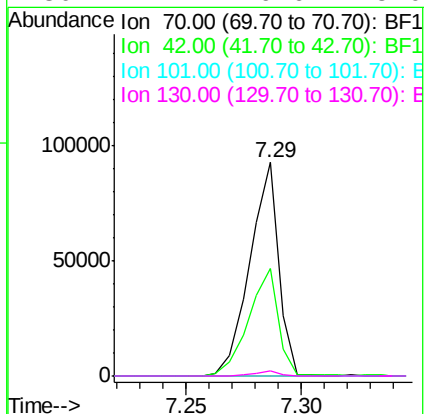
Ion Ratio Lower Upper

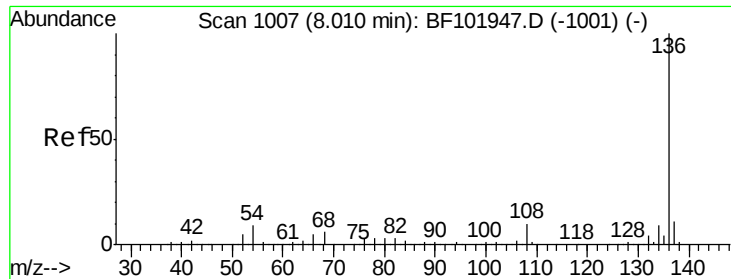
70 100

42 50.1 47.5 71.3

101 0.0 7.4 11.2#

130 2.4 16.6 25.0#

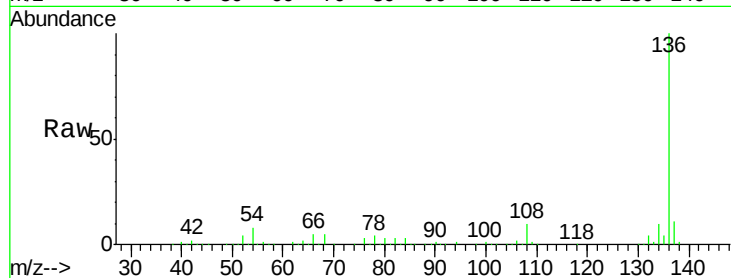




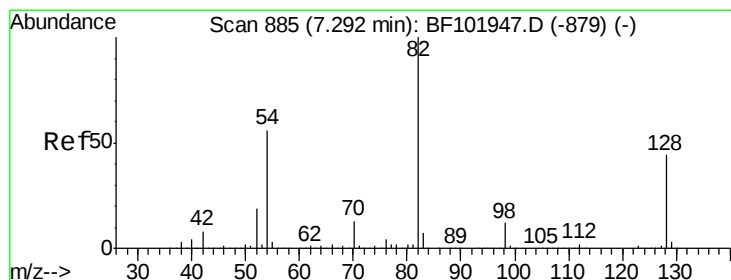
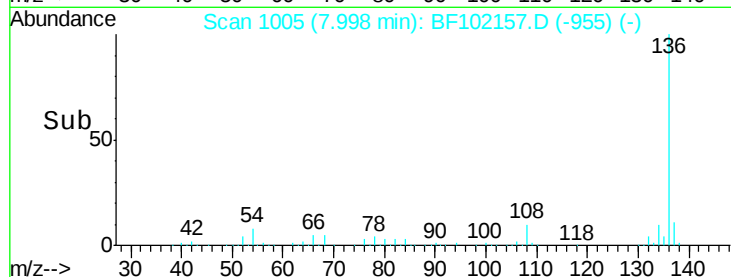
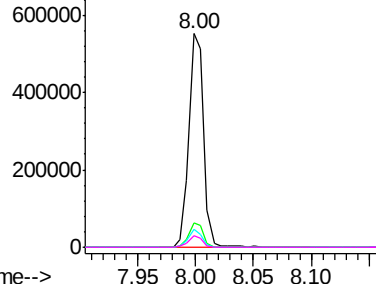
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 486693      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.5  | 8.9 13.3    |
| 54          | 8.3   | 6.6 9.8     |
| 68          | 5.3   | 5.0 7.4     |

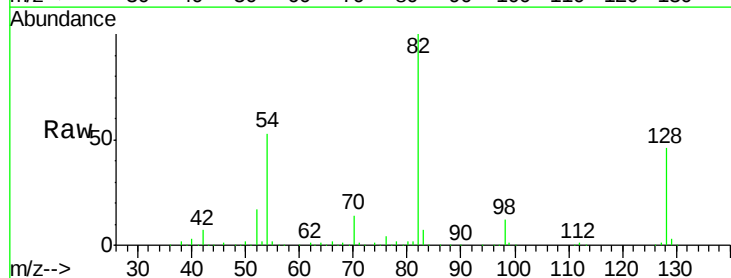


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

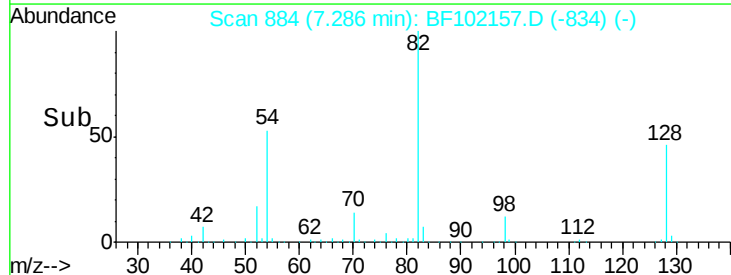
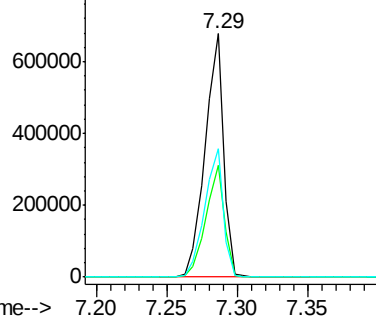


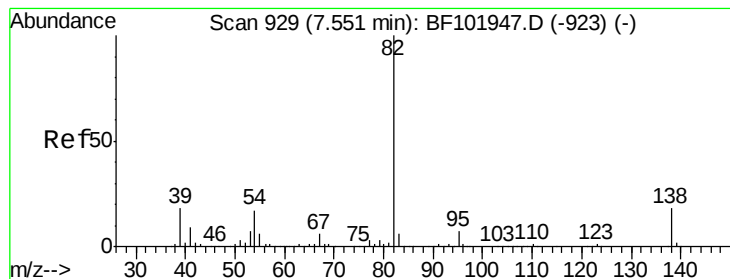
#23  
Nitrobenzene-d5  
Concen: 74.613 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 617955      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.7  | 36.1 54.1   |
| 54          | 52.8  | 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: 37.631 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Instrument :

BNA\_F

ClientSampleId :

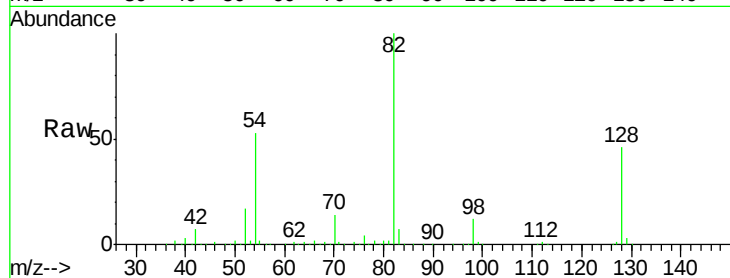
Tot Ion: 82 Resp: 615831

Ion Ratio Lower Upper

82 100

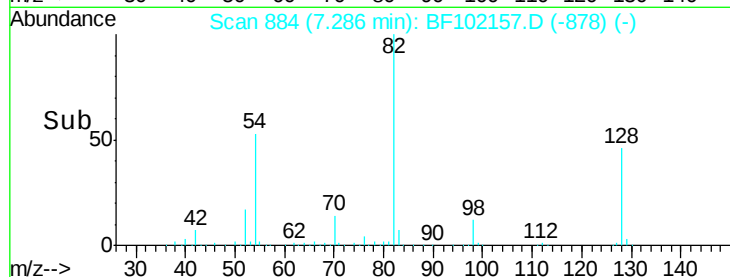
95 0.0 5.2 7.8#

138 0.0 14.9 22.3#

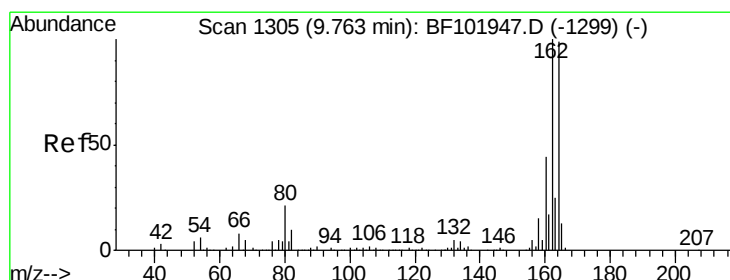


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

7.29



Time-->



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1303

Delta R.T. -0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

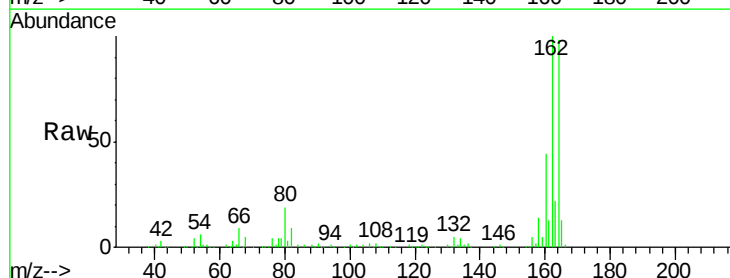
Tgt Ion: 164 Resp: 187111

Ion Ratio Lower Upper

164 100

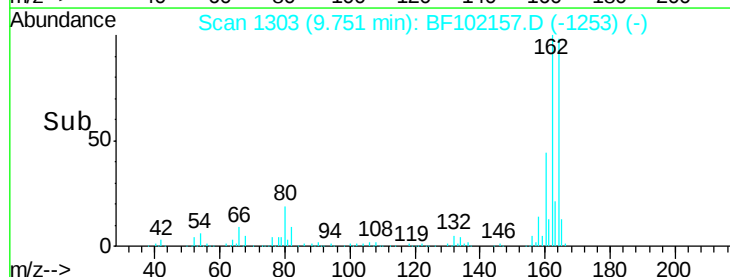
162 102.4 86.1 129.1

160 45.1 38.3 57.5

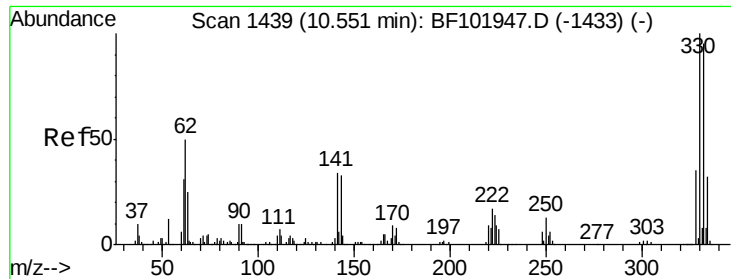


Abundance Ion 164.00 (163.70 to 164.70): BF1  
Ion 162.00 (161.70 to 162.70): BF1  
Ion 160.00 (159.70 to 160.70): BF1

9.75



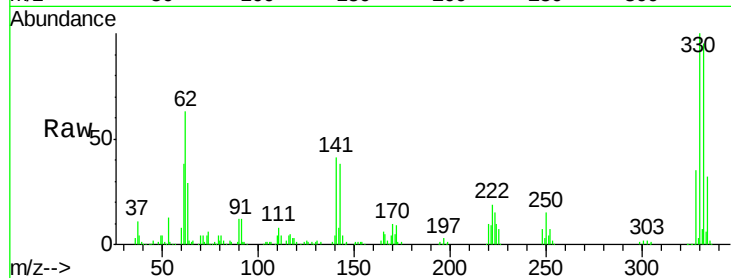
Time-->



#41  
 2,4,6-Tribromophenol  
 Concen: 99.800 ng  
 RT: 10.54 min Scan# 1437  
 Delta R.T. -0.01 min  
 Lab File: BF102157.D  
 Acq: 17 Jan 2018 18:33

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 77.0  | 115.6 |
| 141     | 38.4  | 29.9  | 44.9  |

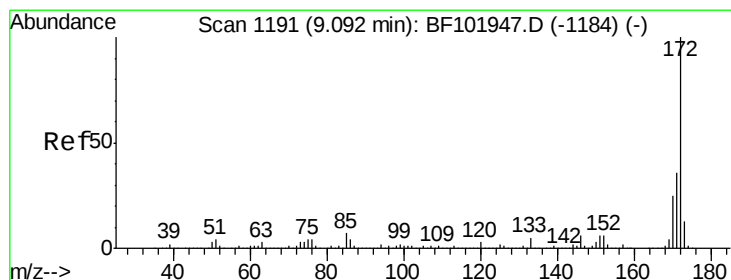
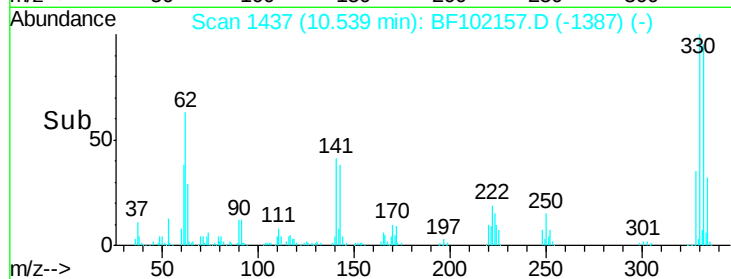
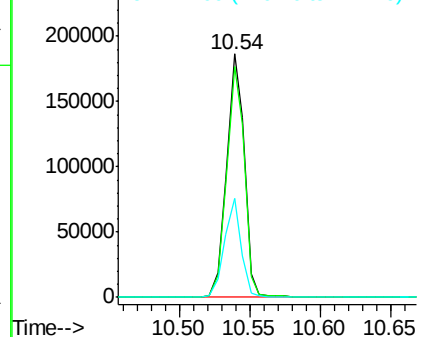


Abundance

Ion 329.80 (329.50 to 330.50): E

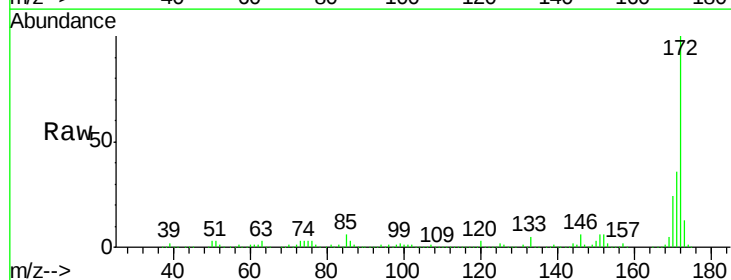
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 79.620 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF102157.D  
 Acq: 17 Jan 2018 18:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.7  | 44.5  |
| 170     | 23.8  | 19.6  | 29.4  |

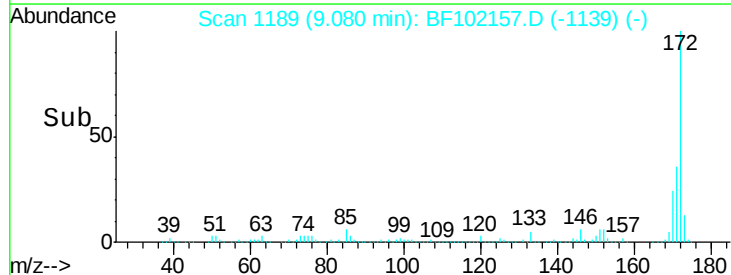
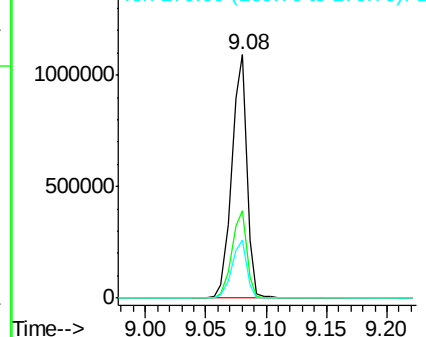


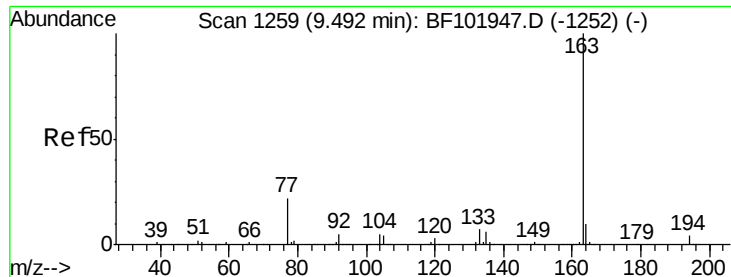
Abundance

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

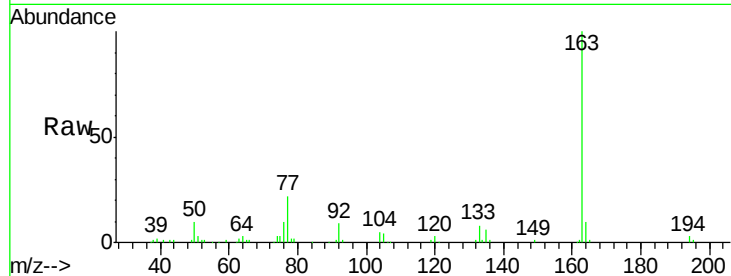




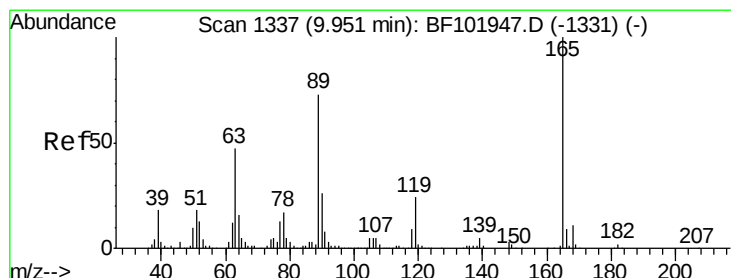
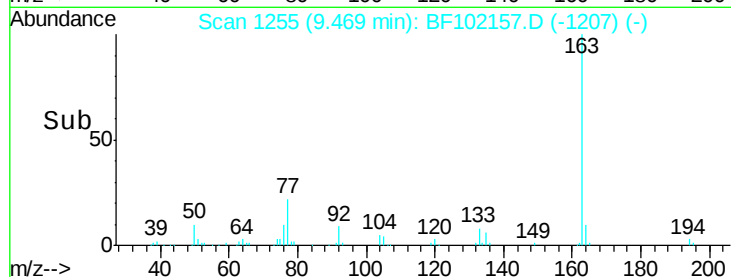
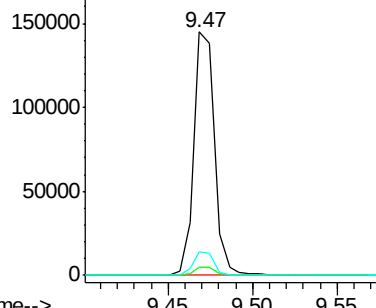
#49  
Dimethylphthalate  
Concen: 8.276 ng  
RT: 9.47 min Scan# 1255  
Delta R.T. -0.02 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 124222  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.7 4.1  
164 9.8 8.2 12.2

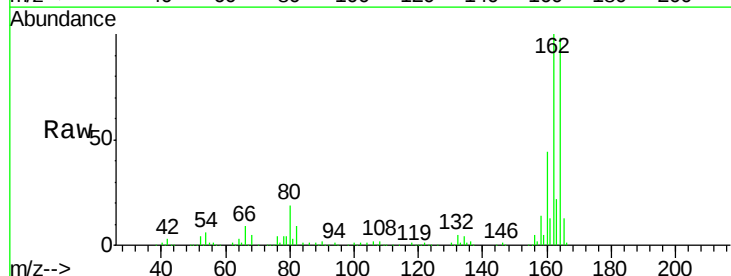


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

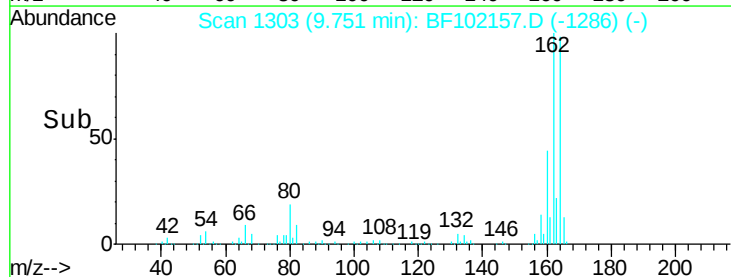
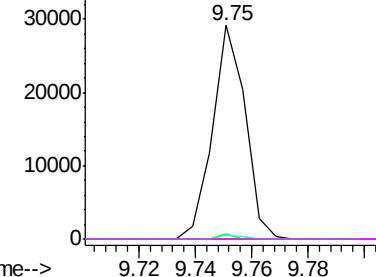


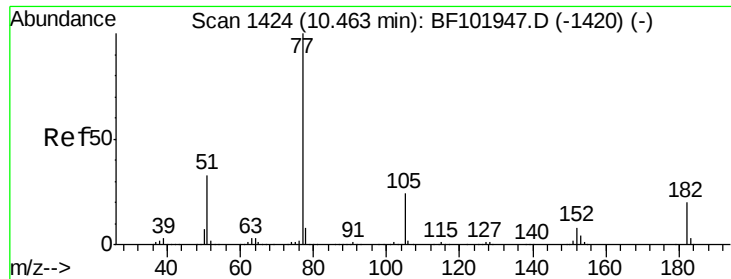
#56  
2,4-Dinitrotoluene  
Concen: 6.229 ng  
RT: 9.75 min Scan# 1303  
Delta R.T. -0.20 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Tgt Ion:165 Resp: 23410  
Ion Ratio Lower Upper  
165 100  
63 2.5 36.4 54.6#  
89 1.8 57.8 86.6#  
182 0.0 1.6 2.4#



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  
Ion 182.00 (181.70 to 182.70): E





#62

Azobenzene

Concen: 5.139 ng

RT: 10.46 min Scan# 1424

Delta R.T. 0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 76335

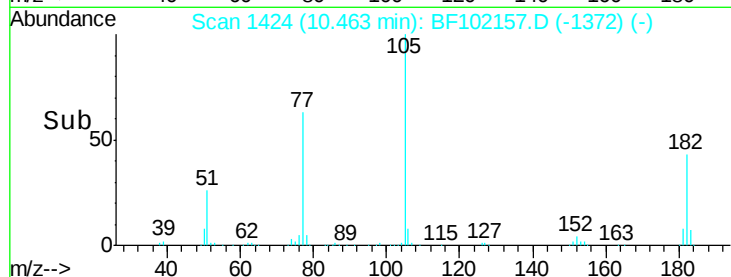
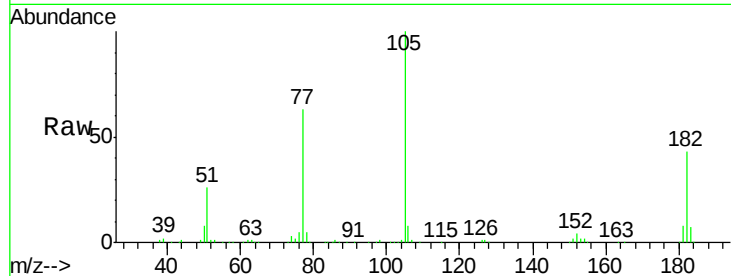
Ion Ratio Lower Upper

77 100

182 67.8 1.7 41.7#

105 159.3 3.0 43.0#

51 41.7 9.9 49.9



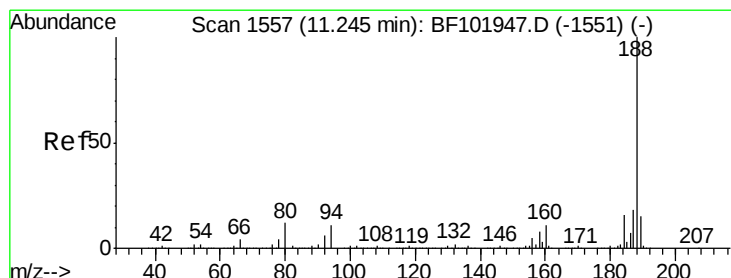
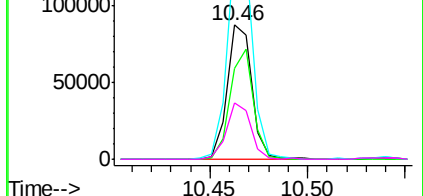
Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Time-->



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1555

Delta R.T. -0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

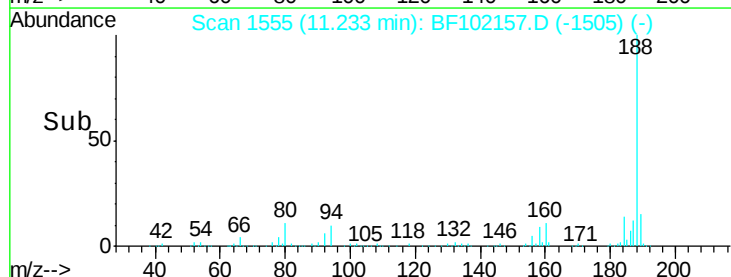
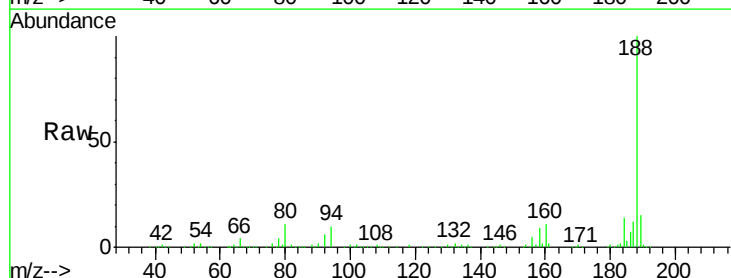
Tgt Ion: 188 Resp: 252909

Ion Ratio Lower Upper

188 100

94 9.7 8.5 12.7

80 10.7 9.2 13.8

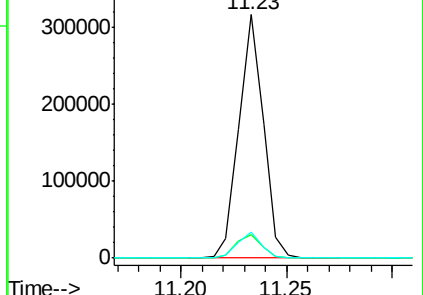


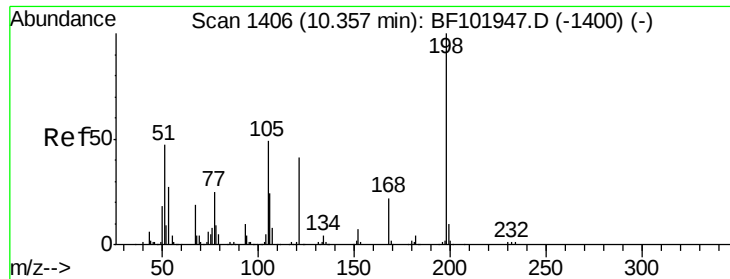
Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

Time-->

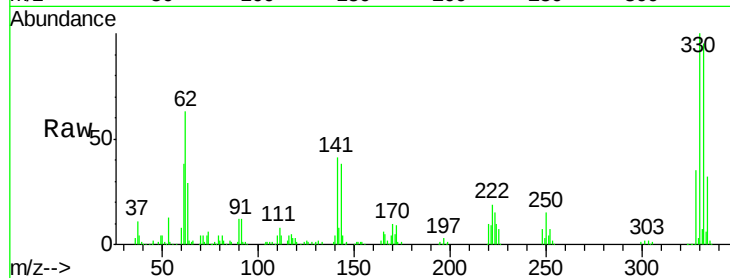




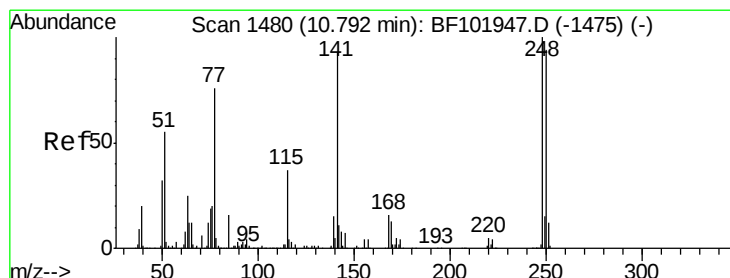
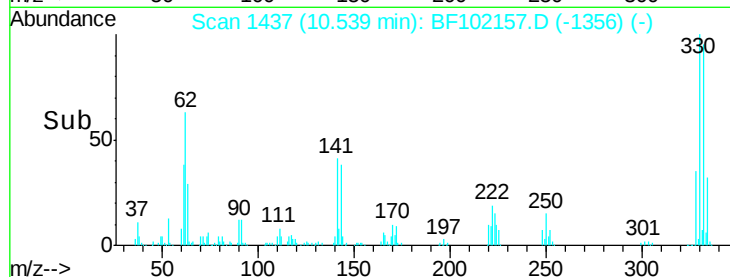
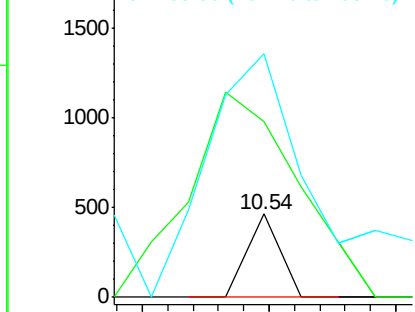
#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.767 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. 0.18 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 163  
Ion Ratio Lower Upper  
198 100  
51 211.7 37.7 77.7#  
105 293.1 36.3 76.3#

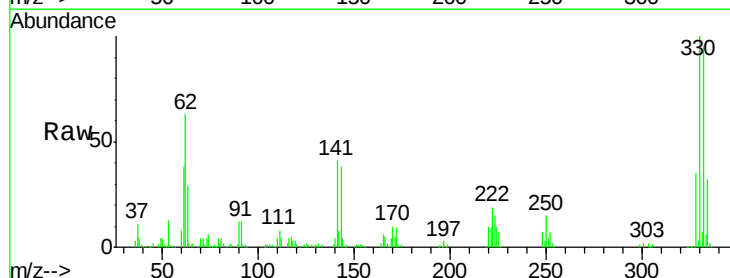


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

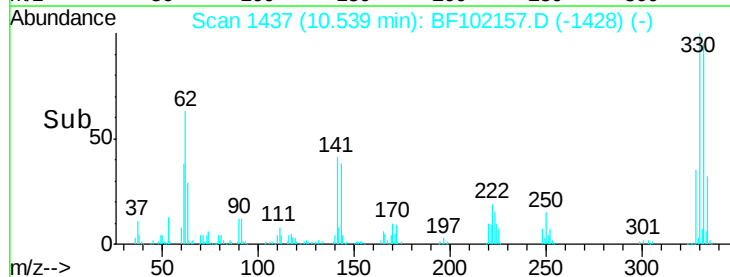
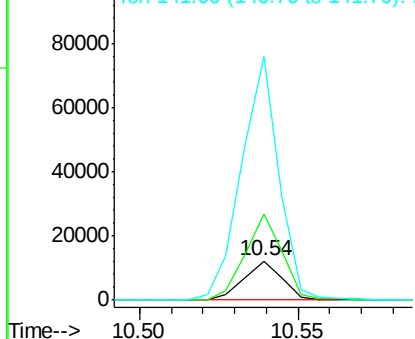


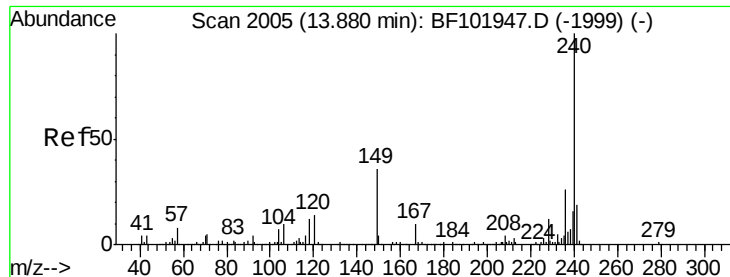
#66  
4-Bromophenyl-phenylether  
Concen: 3.783 ng  
RT: 10.54 min Scan# 1437  
Delta R.T. -0.25 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Tgt Ion:248 Resp: 10103  
Ion Ratio Lower Upper  
248 100  
250 223.1 76.9 115.3#  
141 626.9 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: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

Instrument :

BNA\_F

ClientSampleId :

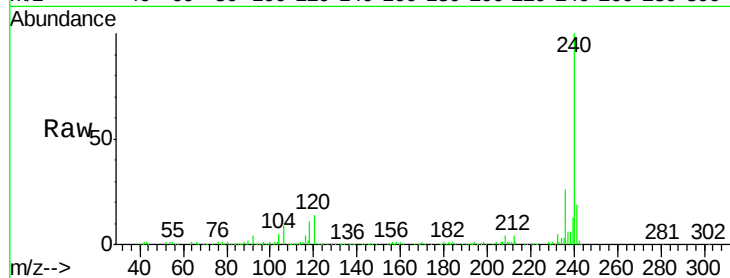
Tot Ion:240 Resp: 226452

Ion Ratio Lower Upper

240 100

120 13.9 9.5 14.3

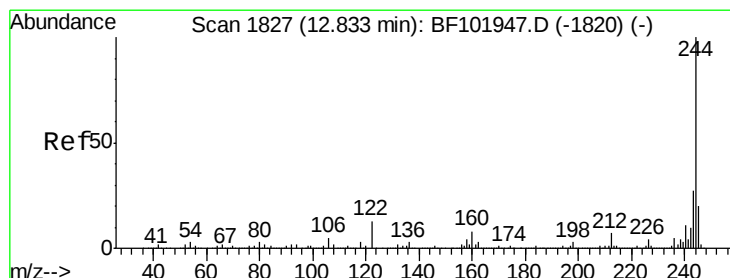
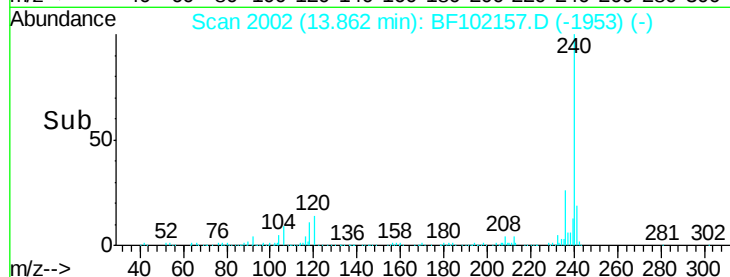
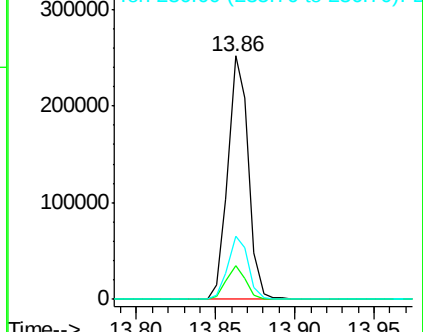
236 25.9 20.7 31.1



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: 51.457 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102157.D

Acq: 17 Jan 2018 18:33

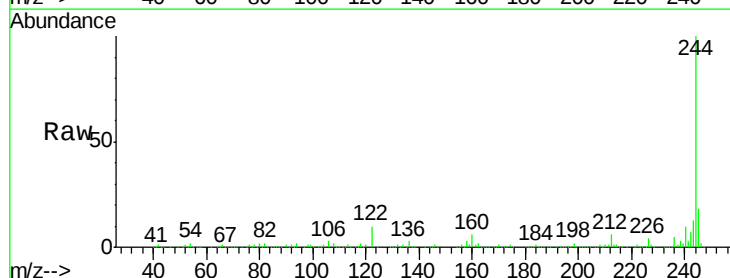
Tgt Ion:244 Resp: 561229

Ion Ratio Lower Upper

244 100

212 6.1 5.4 8.0

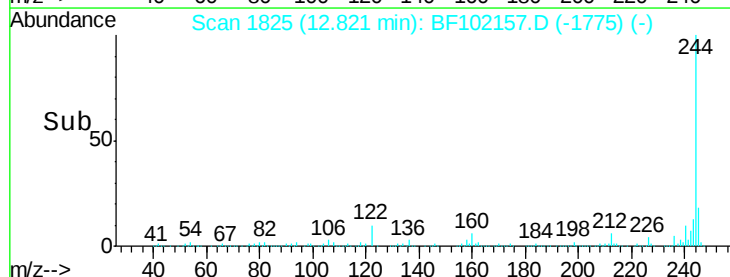
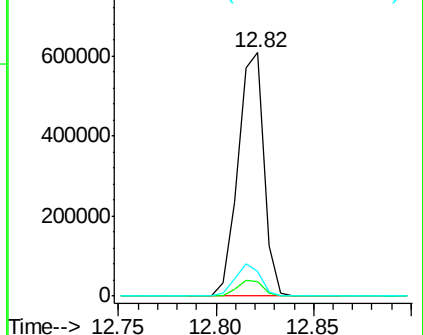
122 10.1 11.0 16.4#

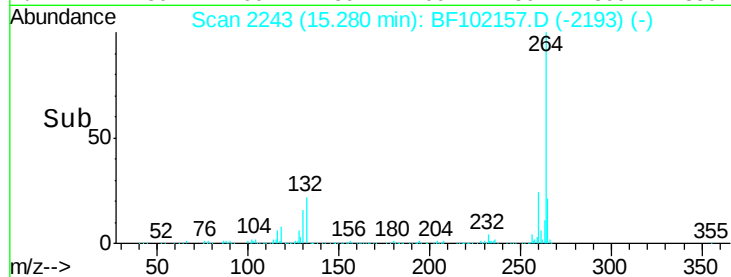
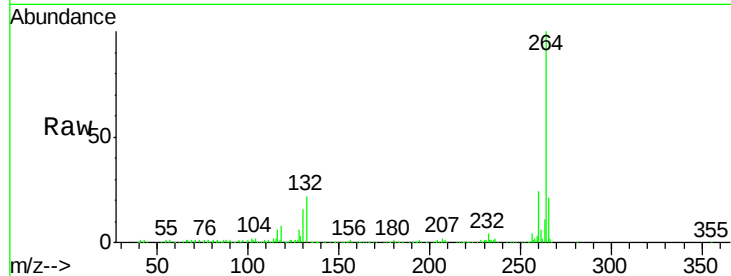
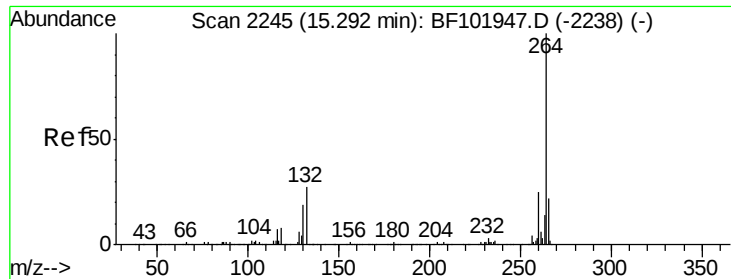


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. -0.01 min  
Lab File: BF102157.D  
Acq: 17 Jan 2018 18:33

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 20.8  | 17.5  | 26.3  |

