

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF040318\  
 Data File : BF104179.D  
 Acq On : 3 Apr 2018 13:56  
 Operator : JU/SJ  
 Sample : J2114-10  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 03 15:24:03 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 03 15:22:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 96202    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 401287   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.00 | 164  | 176236   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 279225   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 222195   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.70 | 264  | 164730   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.59  | 112  | 280143   | 46.44  | ng    | 0.00     |
| 7) Phenol-d6                | 6.59  | 99   | 232791   | 31.37  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 690832   | 105.28 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.79 | 330  | 170677   | 86.97  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 1285648  | 115.04 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 971162   | 100.92 | ng    | 0.00     |

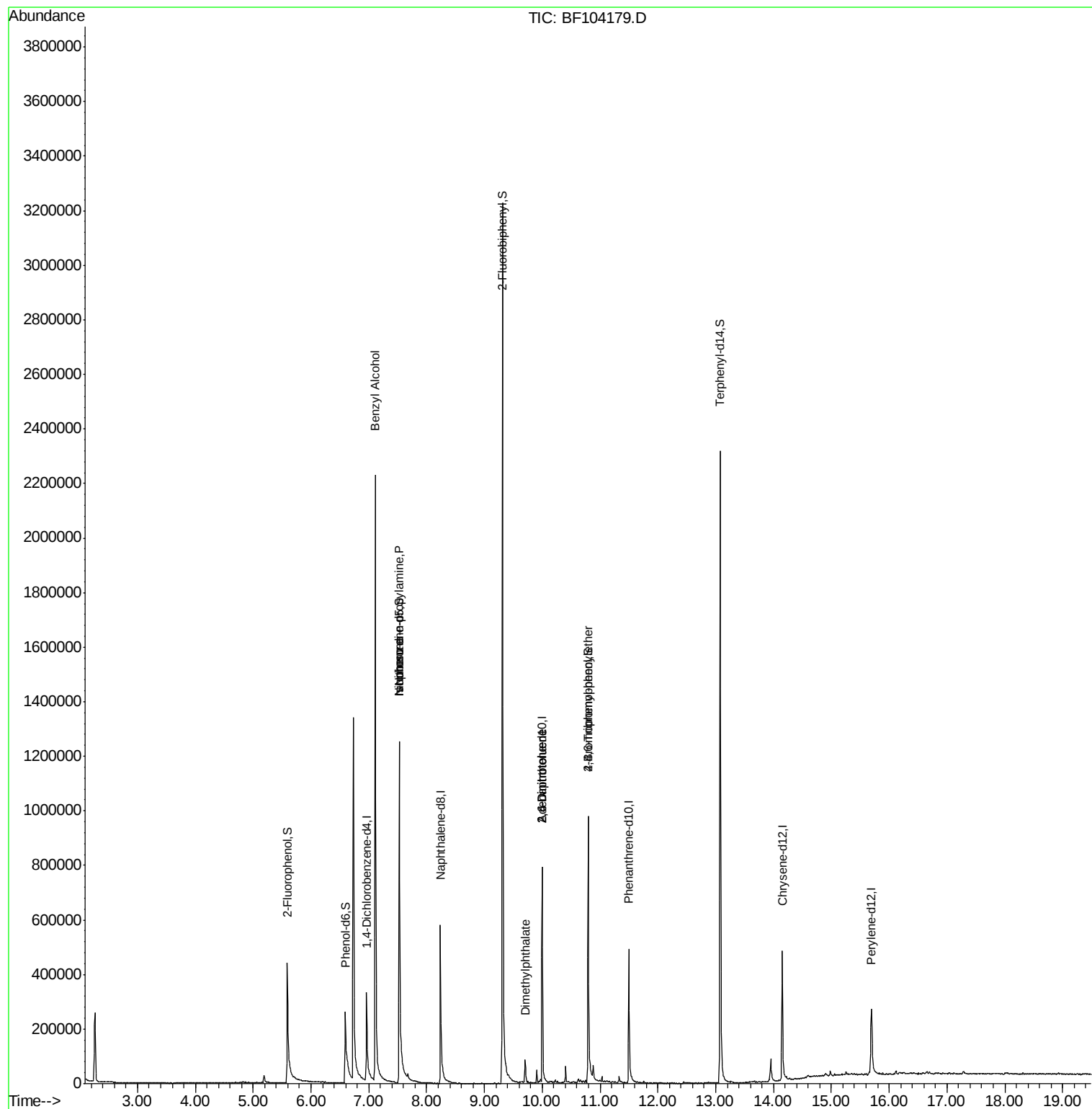
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 15) Benzyl Alcohol             | 7.12  | 79   | 10499    | 2.176  | ng    | # 38   |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 82218    | 18.667 | ng    | # 71   |
| 25) Isophorone                 | 7.53  | 82   | 705248   | 58.320 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.70  | 163  | 45781    | 3.290  | ng    | # 98   |
| 50) 2,6-Dinitrotoluene         | 10.00 | 165  | 22311    | 7.453  | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 22312    | 5.841  | ng    | # 22   |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 9909     | 3.317  | ng    | # 1    |

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

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF040318\  
Data File : BF104179.D  
Acq On : 3 Apr 2018 13:56  
Operator : JU/SJ  
Sample : J2114-10  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Apr 03 15:24:03 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 03 15:22:43 2018  
Response via : Initial Calibration



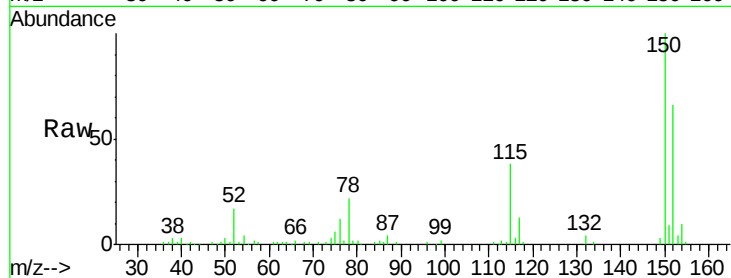


#1

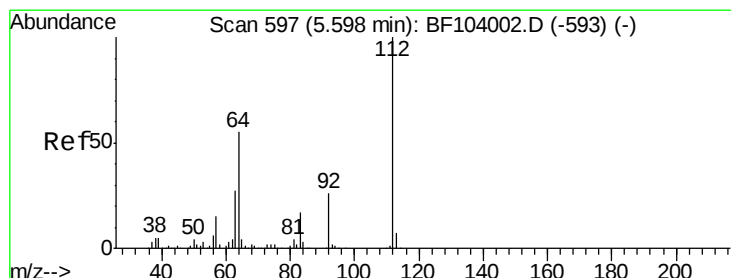
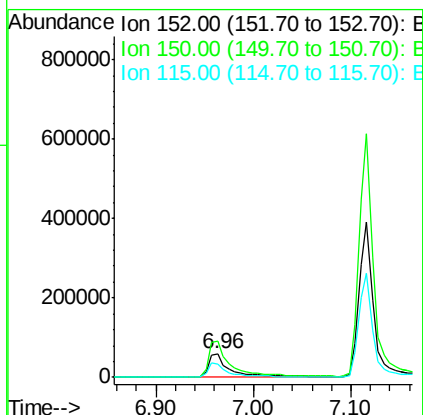
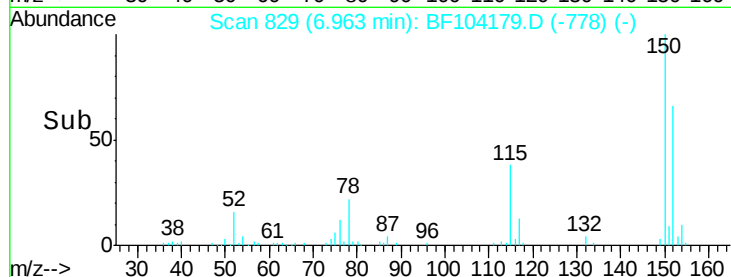
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 829  
Delta R.T. -0.00 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 96202  
Ion Ratio Lower Upper  
152 100  
150 151.0 124.6 186.8  
115 57.8 50.1 75.1



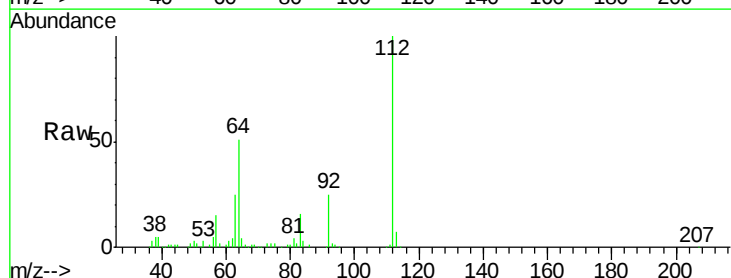
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



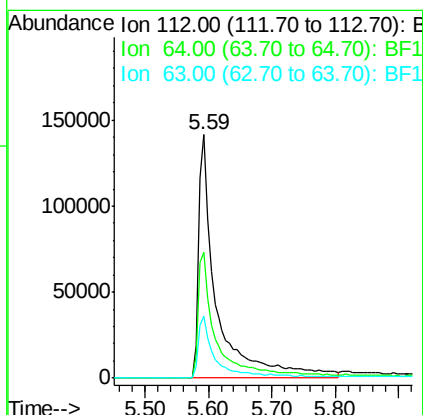
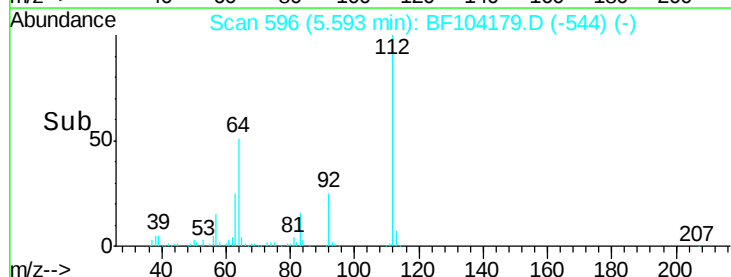
#5

2-Fluorophenol  
Concen: 46.440 ng  
RT: 5.59 min Scan# 596  
Delta R.T. 0.01 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Tgt Ion:112 Resp: 280143  
Ion Ratio Lower Upper  
112 100  
64 51.4 47.9 71.9  
63 25.2 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: 31.366 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Instrument :

BNA\_F

ClientSampled :

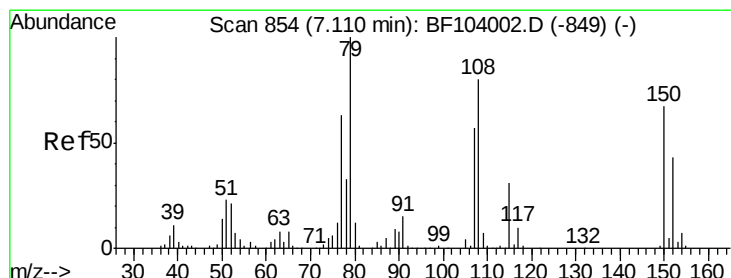
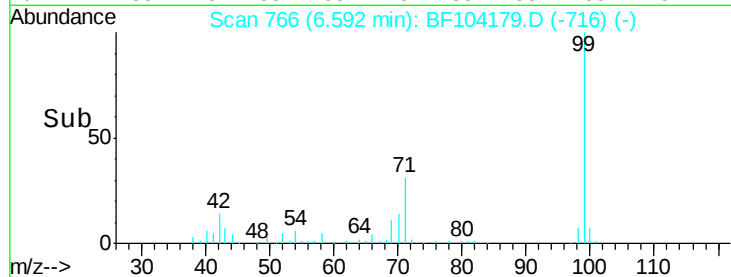
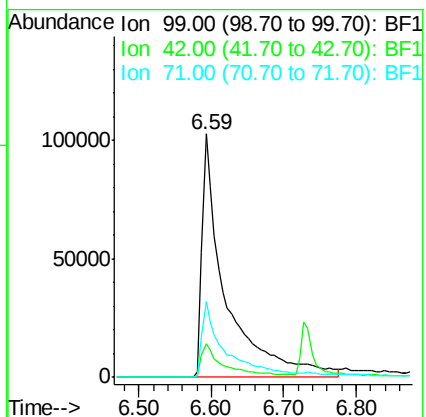
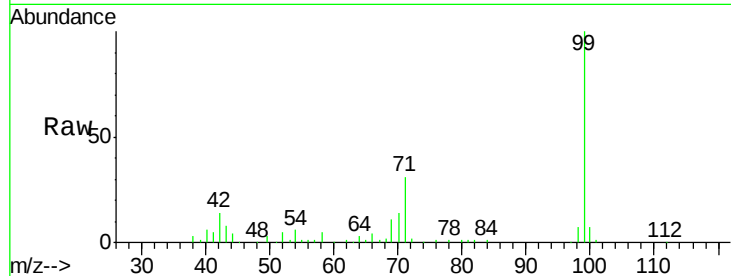
Tot Ion: 99 Resp: 232791

Ion Ratio Lower Upper

99 100

42 13.7 14.5 21.7#

71 31.2 25.4 38.0



#15

Benzyl Alcohol

Concen: 2.176 ng

RT: 7.12 min Scan# 855

Delta R.T. 0.01 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

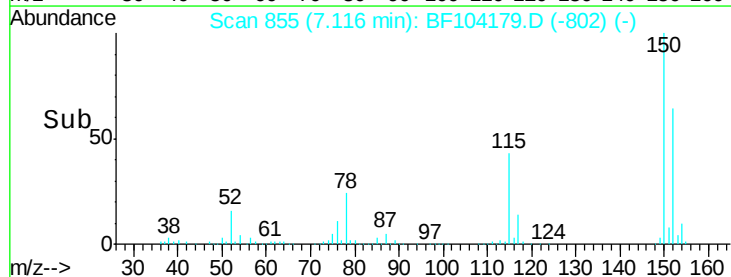
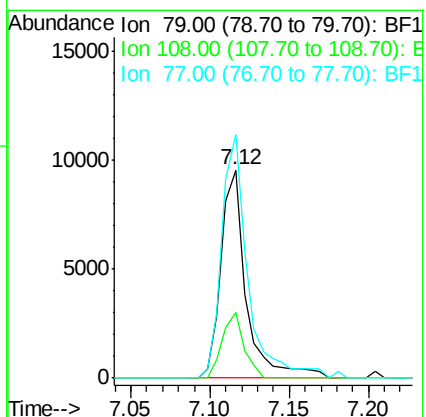
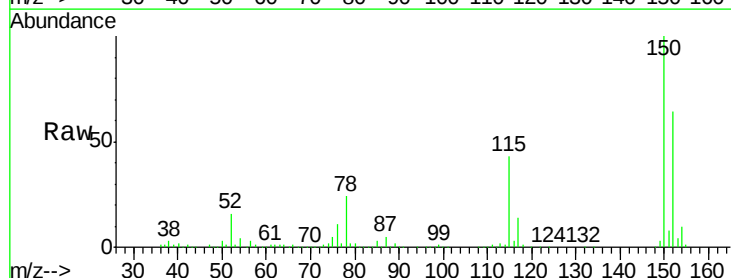
Tgt Ion: 79 Resp: 10499

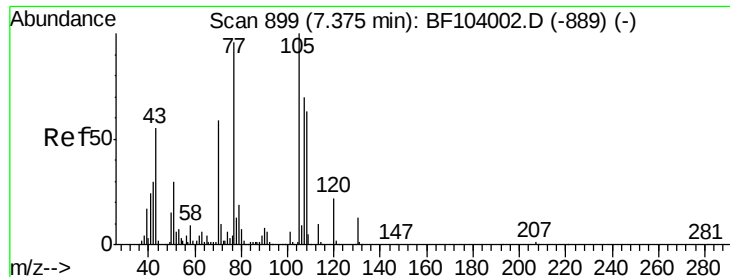
Ion Ratio Lower Upper

79 100

108 31.6 65.1 97.7#

77 117.1 50.6 75.8#





#19

n-Nitroso-di-n-propylamine

Concen: 18.667 ng

RT: 7.53 min Scan# 925

Delta R.T. 0.16 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 82218

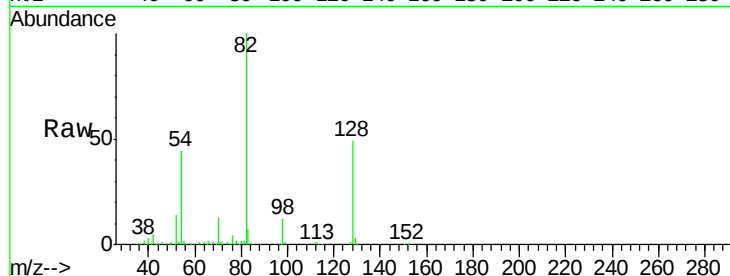
Ion Ratio Lower Upper

70 100

42 39.7 47.5 71.3#

101 0.0 7.4 11.2#

130 2.7 16.6 25.0#

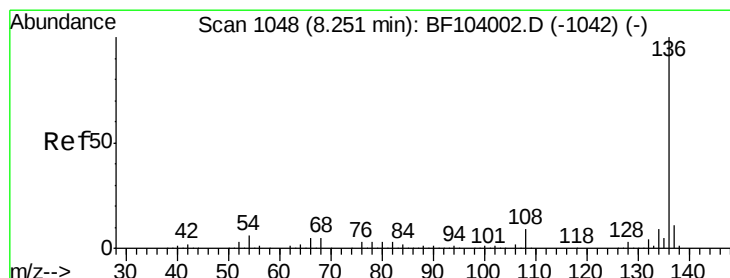
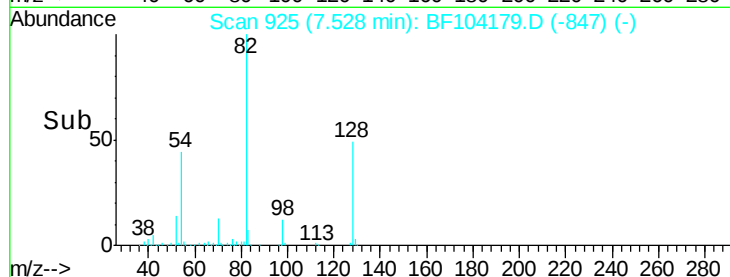
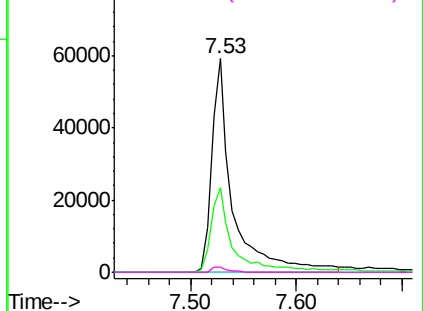


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Tgt Ion: 136 Resp: 401287

Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 6.6 6.6 9.8

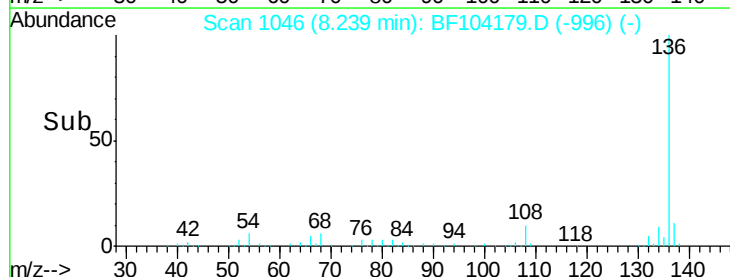
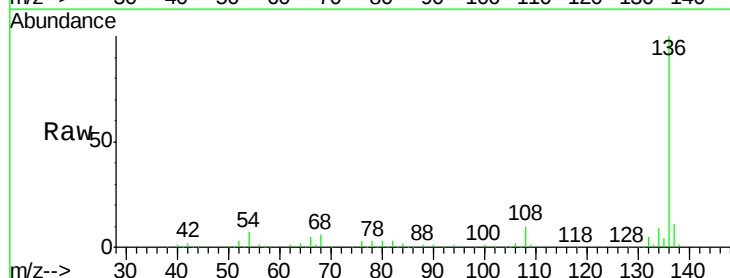
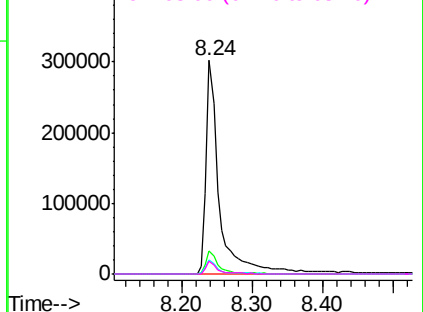
68 5.8 5.0 7.4

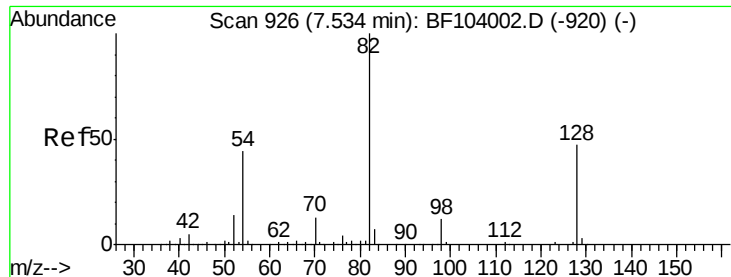
Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

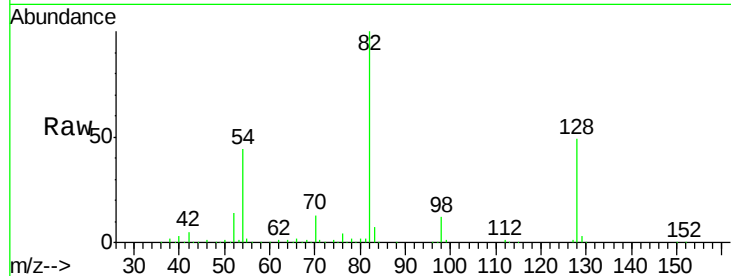




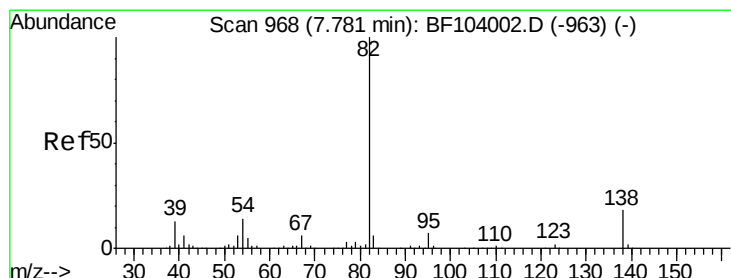
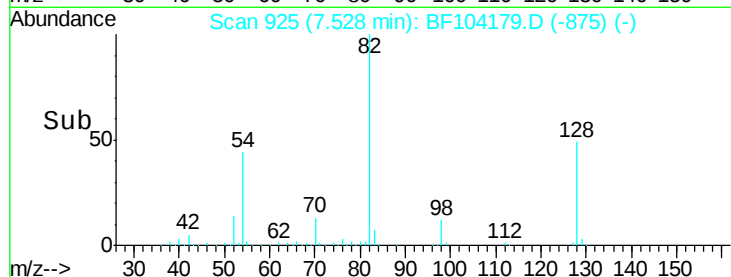
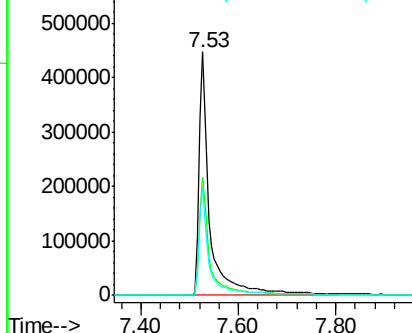
#23  
Nitrobenzene-d5  
Concen: 105.282 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.01 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 690832  
Ion Ratio Lower Upper  
82 100  
128 48.6 36.1 54.1  
54 43.8 41.4 62.2

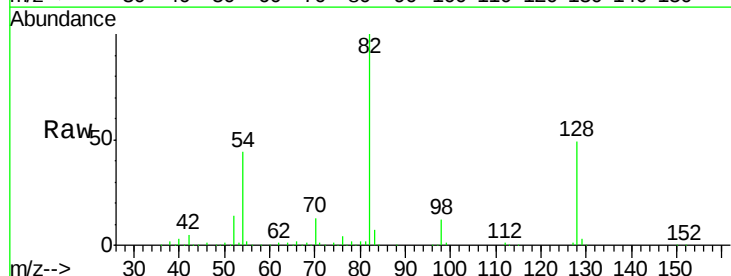


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

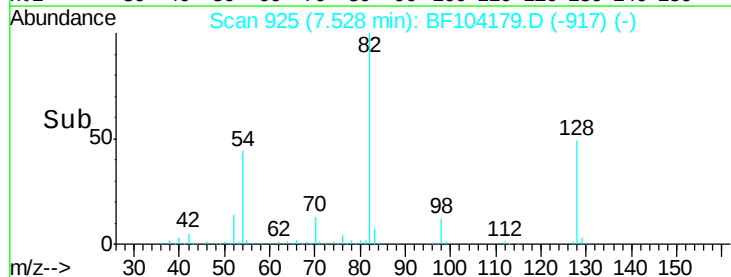
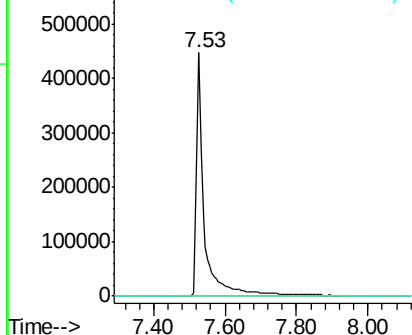


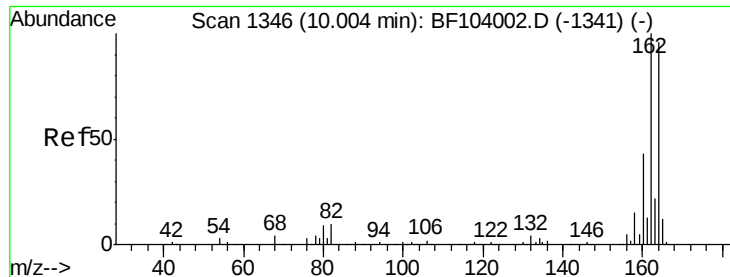
#25  
Isophorone  
Concen: 58.320 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.25 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Tgt Ion: 82 Resp: 705248  
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

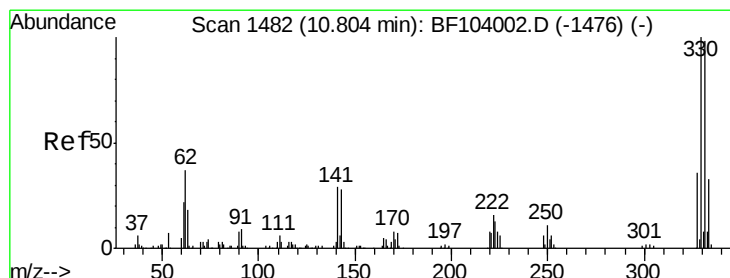
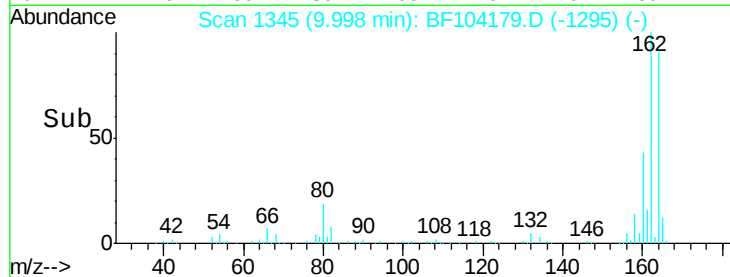
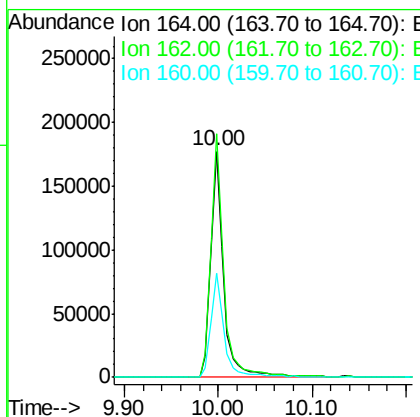
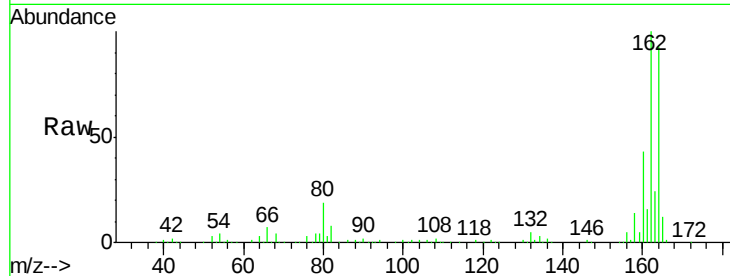




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.00 min Scan# 1345  
 Delta R.T. -0.01 min  
 Lab File: BF104179.D  
 Acq: 3 Apr 2018 13:56

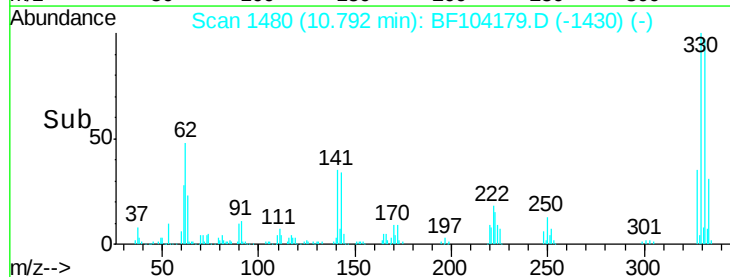
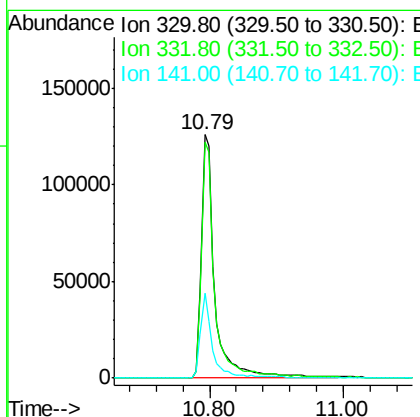
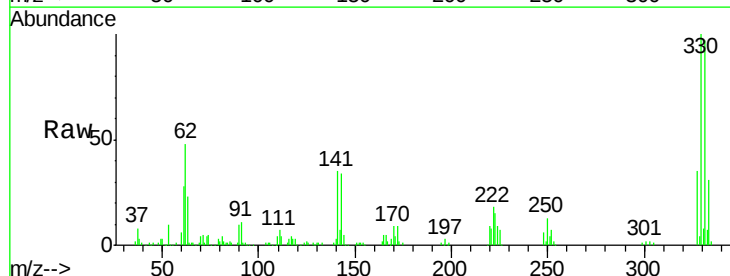
Instrument :  
 BNA\_F  
 ClientSampleId :

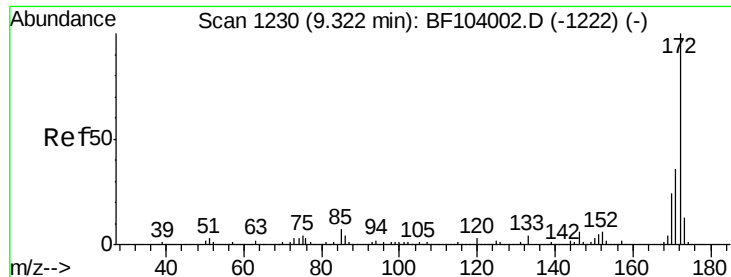
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.6 | 86.1  | 129.1 |
| 160     | 46.0  | 38.3  | 57.5  |



#41  
 2,4,6-Tribromophenol  
 Concen: 86.974 ng  
 RT: 10.79 min Scan# 1480  
 Delta R.T. -0.01 min  
 Lab File: BF104179.D  
 Acq: 3 Apr 2018 13:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.7  | 77.0  | 115.6 |
| 141     | 31.0  | 29.9  | 44.9  |

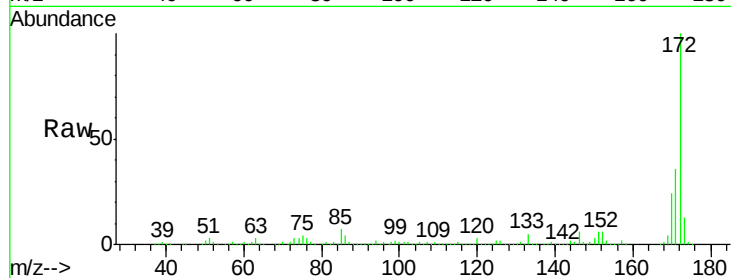




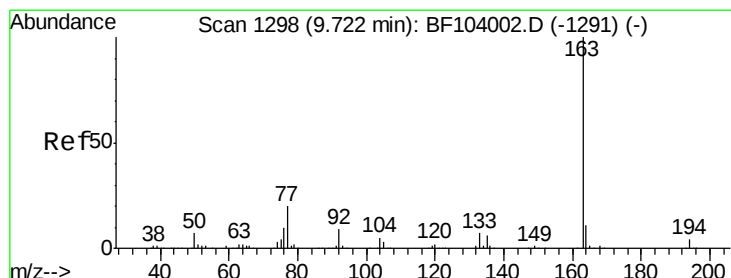
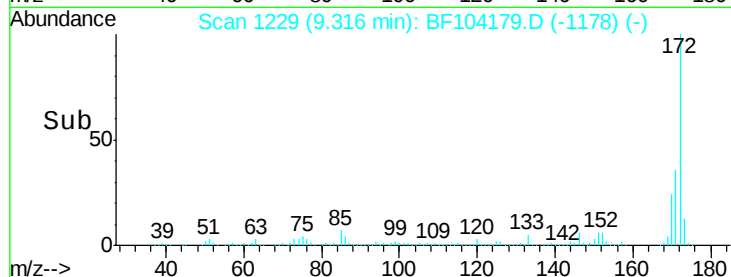
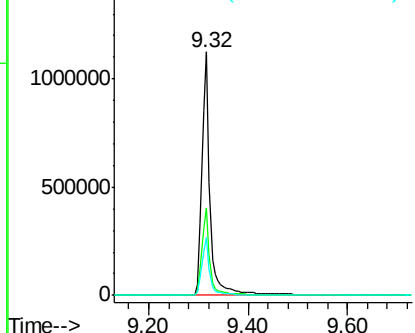
#44  
2-Fluorobiphenyl  
Concen: 115.037 ng  
RT: 9.32 min Scan# 1229  
Delta R.T. -0.00 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 1285648  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.7 44.5  
170 23.9 19.6 29.4

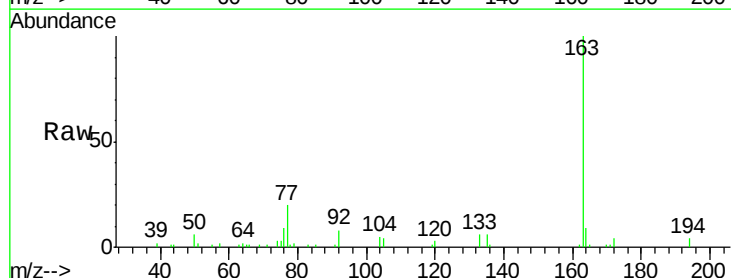


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

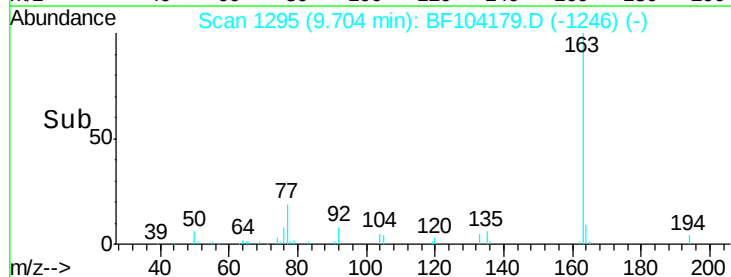
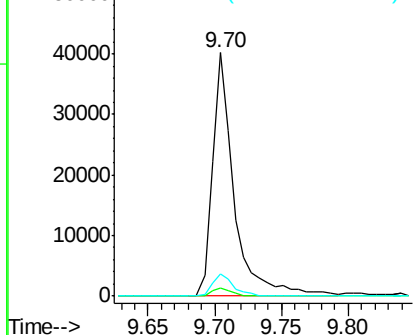


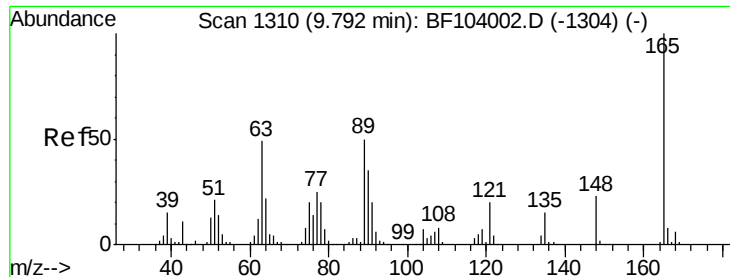
#49  
Dimethylphthalate  
Concen: 3.290 ng  
RT: 9.70 min Scan# 1295  
Delta R.T. -0.01 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Tgt Ion:163 Resp: 45781  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 9.2 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: 7.453 ng

RT: 10.00 min Scan# 1345

Delta R.T. 0.21 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Instrument :

BNA\_F

ClientSampleId :

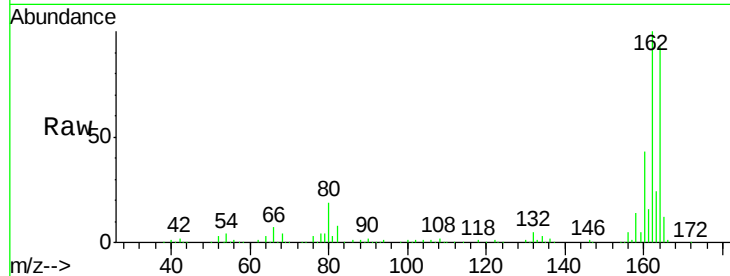
Tot Ion:165 Resp: 22311

Ion Ratio Lower Upper

165 100

63 0.0 44.7 67.1#

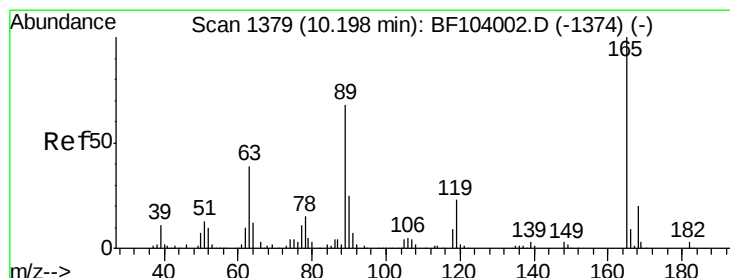
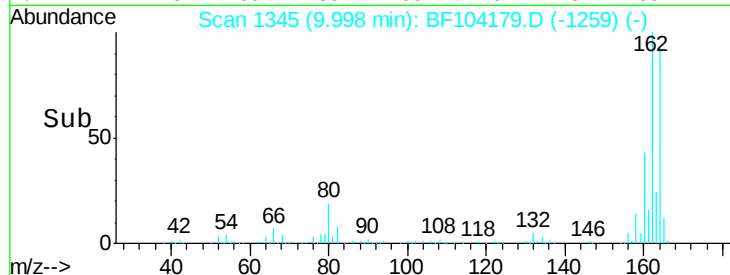
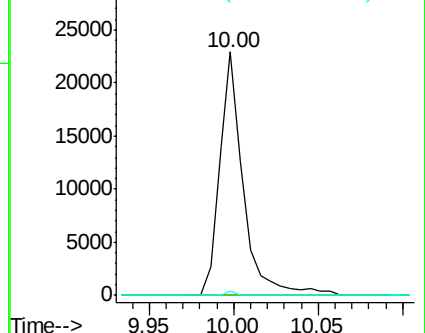
89 1.5 44.0 66.0#



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: 5.841 ng

RT: 10.00 min Scan# 1345

Delta R.T. -0.20 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Tgt Ion:165 Resp: 22312

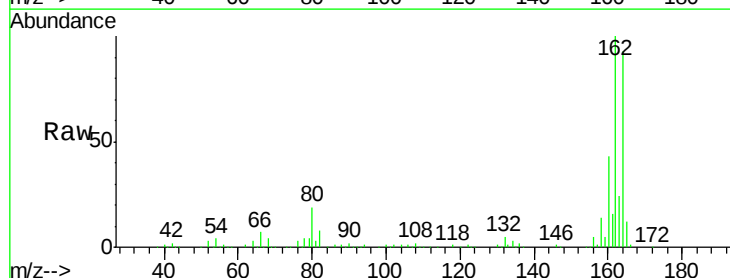
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 1.5 57.8 86.6#

182 0.0 1.6 2.4#

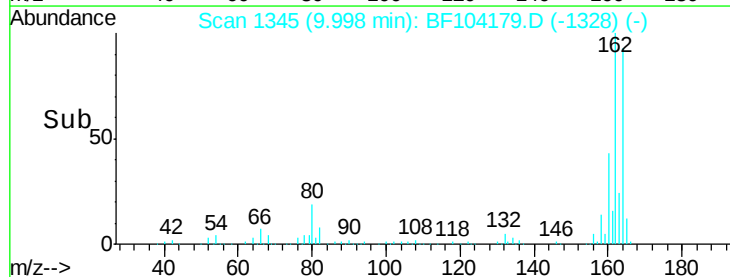
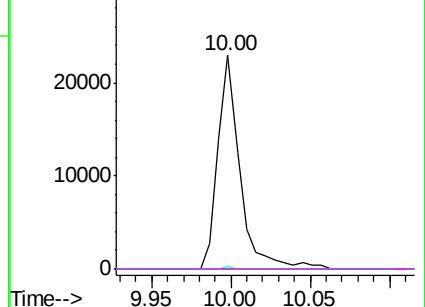


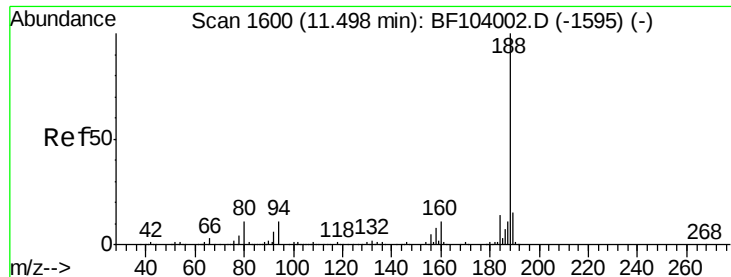
Abundance Ion 165.00 (164.70 to 165.70): E

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

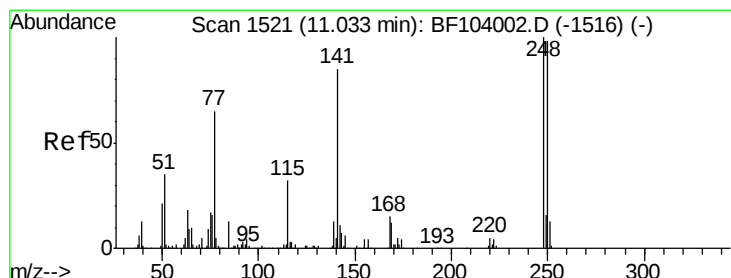
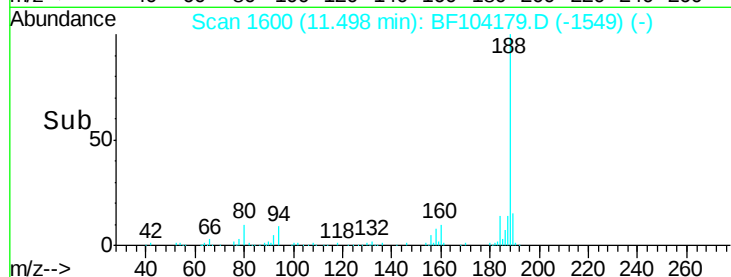
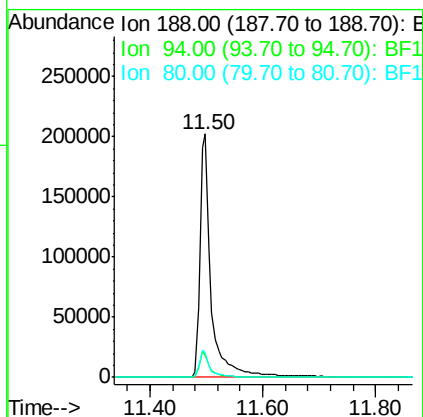
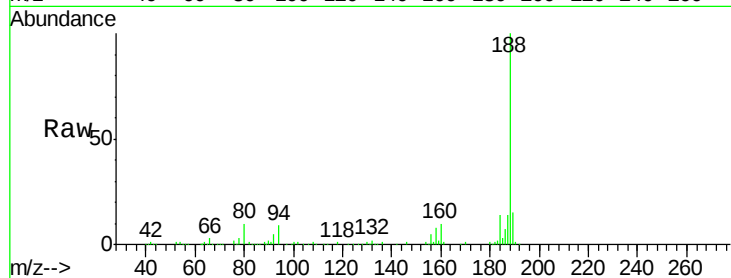




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

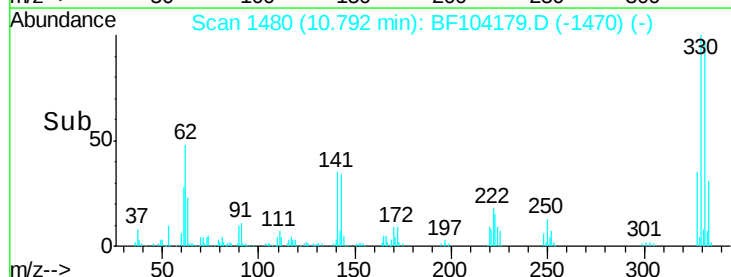
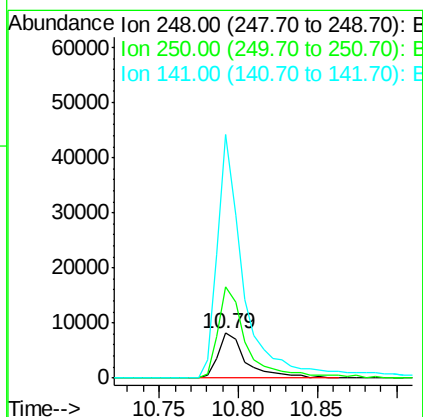
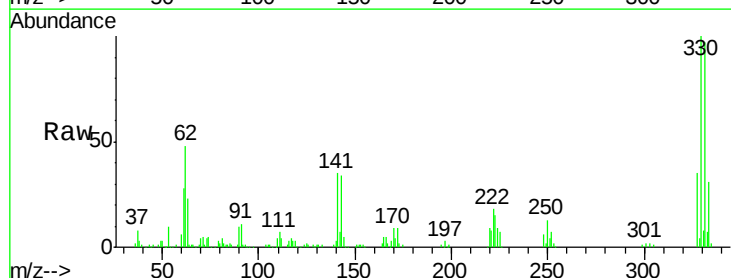
Instrument :  
BNA\_F  
ClientSampleId :

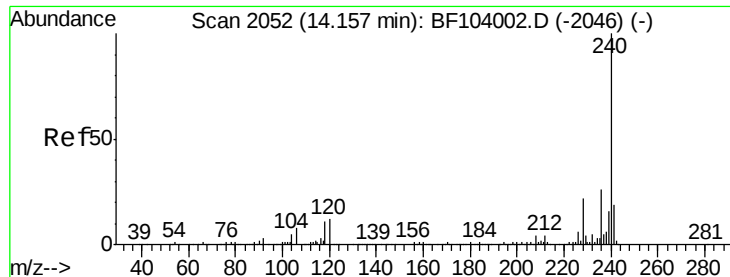
Tot Ion:188 Resp: 279225  
Ion Ratio Lower Upper  
188 100  
94 8.9 8.5 12.7  
80 10.2 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.317 ng  
RT: 10.79 min Scan# 1480  
Delta R.T. -0.24 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Tgt Ion:248 Resp: 9909  
Ion Ratio Lower Upper  
248 100  
250 203.5 76.9 115.3#  
141 540.3 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

Instrument :

BNA\_F

ClientSampleId :

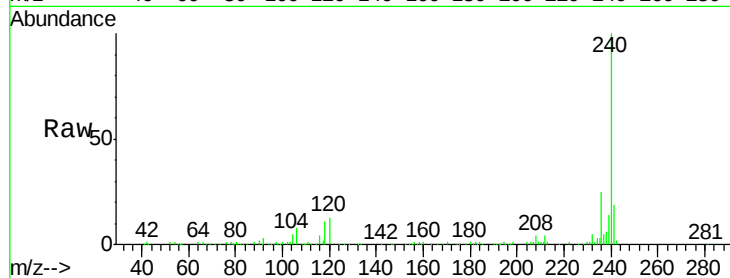
Tot Ion:240 Resp: 222195

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

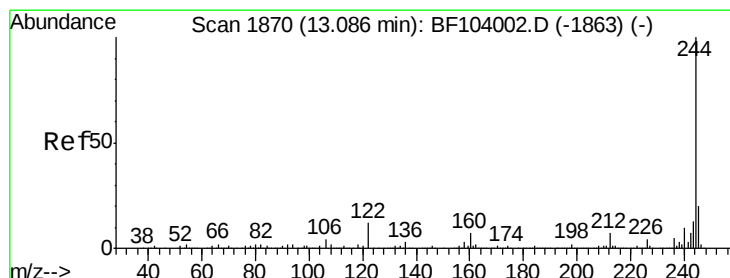
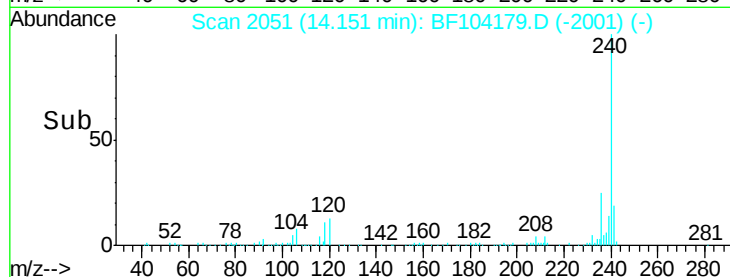
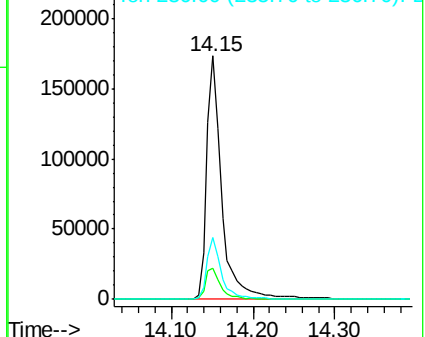
236 25.1 20.7 31.1



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: 100.919 ng

RT: 13.08 min Scan# 1869

Delta R.T. -0.00 min

Lab File: BF104179.D

Acq: 3 Apr 2018 13:56

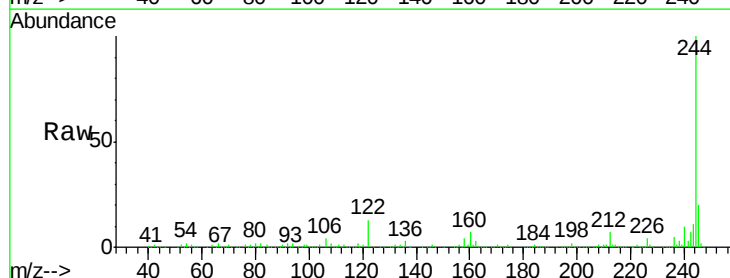
Tgt Ion:244 Resp: 971162

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

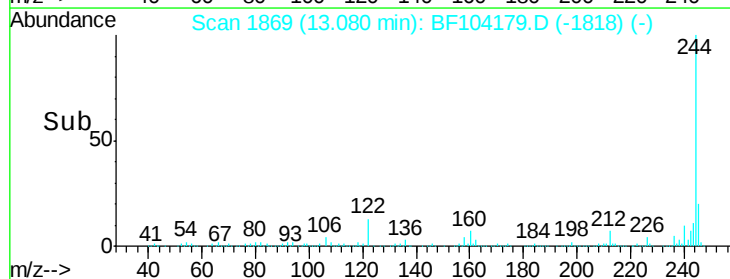
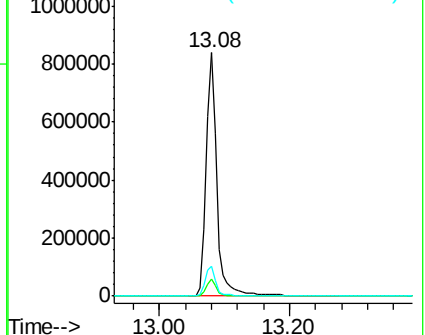
122 12.5 11.0 16.4

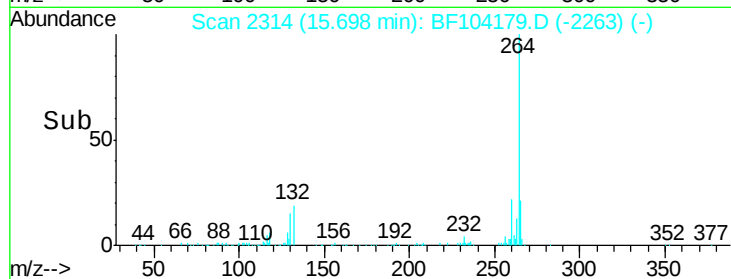
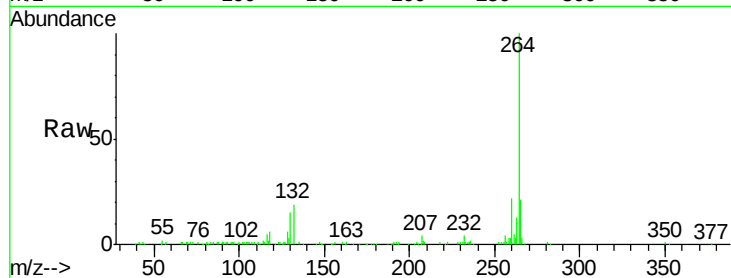
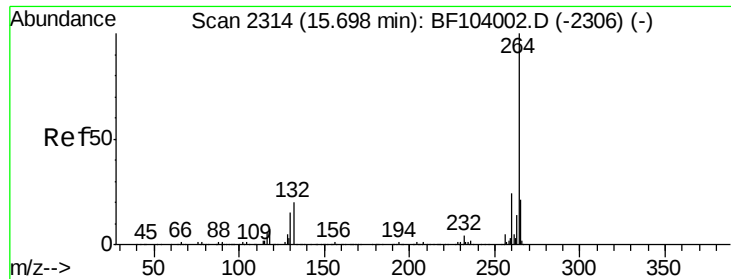


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.70 min Scan# 2314  
Delta R.T. -0.00 min  
Lab File: BF104179.D  
Acq: 3 Apr 2018 13:56

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 19.2  | 28.8  |
| 265     | 21.0  | 17.5  | 26.3  |

