

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102117\  
 Data File : BF099723.D  
 Acq On : 21 Oct 2017 13:03  
 Operator : SJ/JU  
 Sample : I6013-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 22 00:43:09 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 20 13:11:43 2017  
 Response via : Initial Calibration

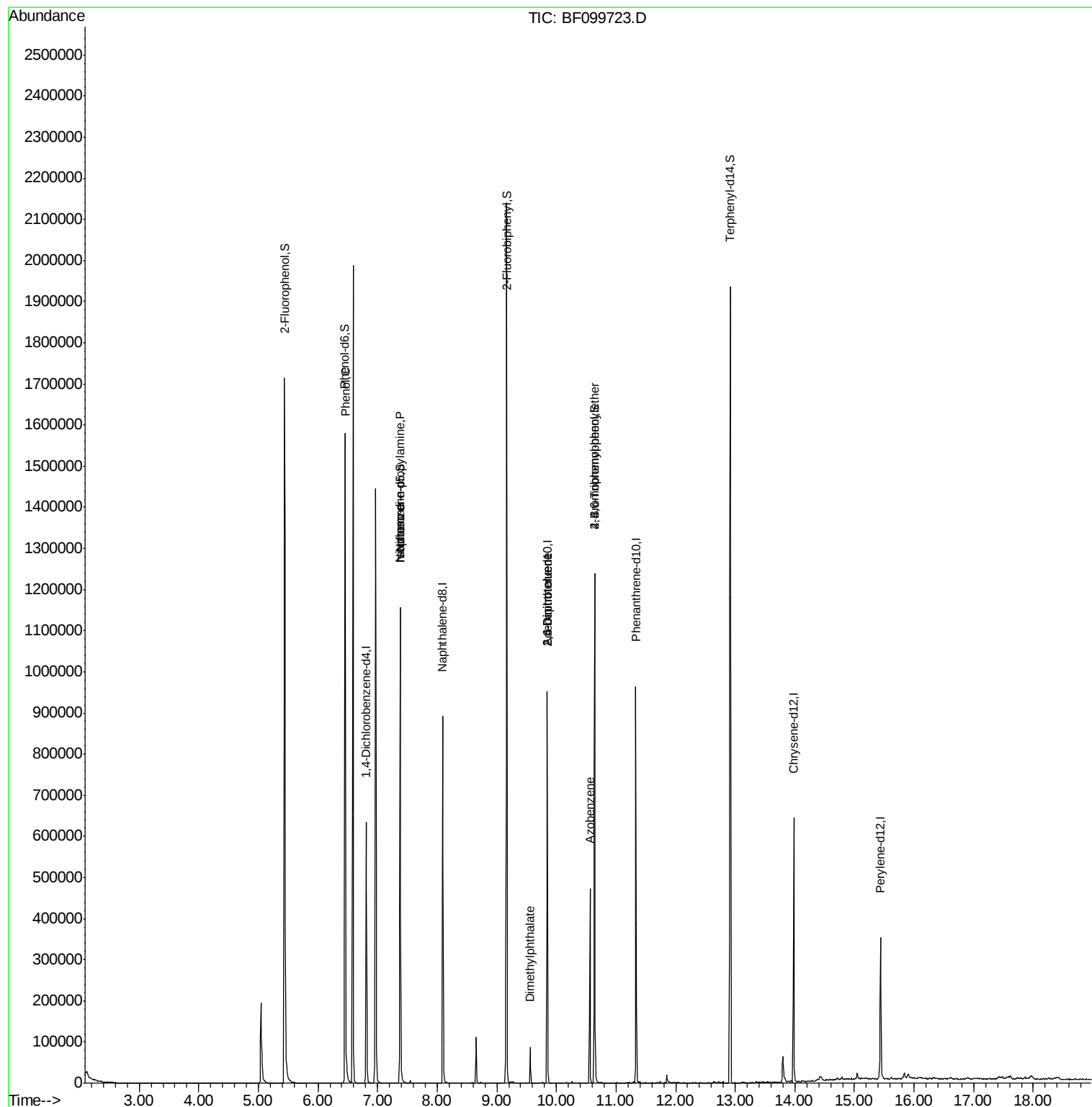
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 100813   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.09  | 136  | 413582   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.85  | 164  | 191416   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.33 | 188  | 339754   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.98 | 240  | 222977   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.44 | 264  | 157669   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 573158   | 90.51  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.45  | 99   | 698127   | 89.36  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 397197   | 61.59  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 145979   | 93.20  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 724515   | 63.19  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 612810   | 62.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.46  | 94   | 22216    | 2.543  | ng    | 85       |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 48732    | 9.770  | ng    | # 71     |
| 25) Isophorone                 | 7.38  | 82   | 397193   | 29.789 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.56  | 163  | 36271    | 2.511  | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 24067    | 7.652  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 24067    | 5.896  | ng    | # 23     |
| 62) Azobenzene                 | 10.56 | 77   | 85459    | 6.584  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 9918     | 2.982  | ng    | # 1      |

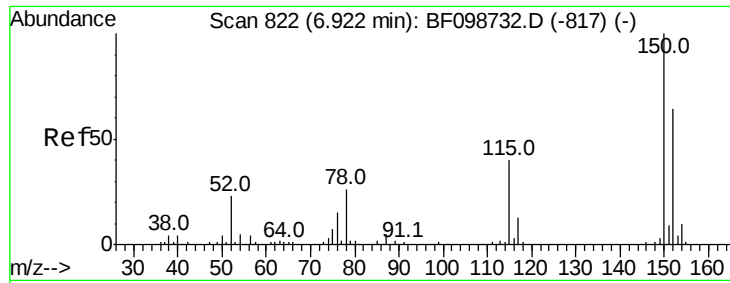
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102117\  
Data File : BF099723.D  
Acq On : 21 Oct 2017 13:03  
Operator : SJ/JU  
Sample : I6013-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 22 00:43:09 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 20 13:11:43 2017  
Response via : Initial Calibration



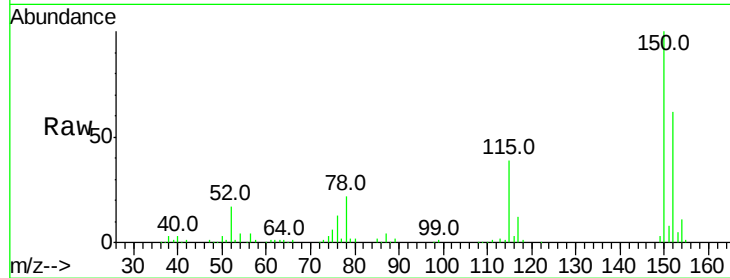


#1

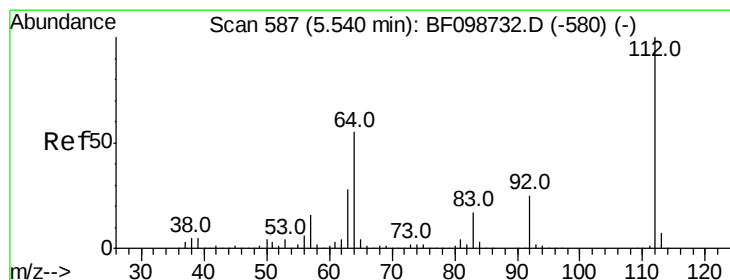
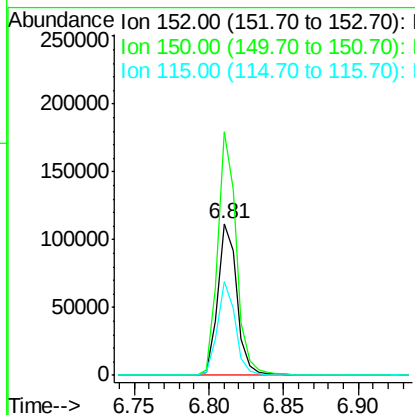
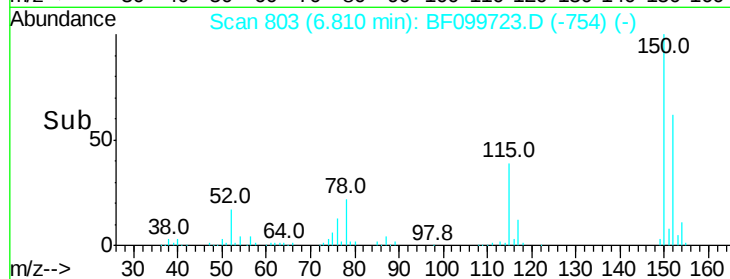
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. -0.01 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 100813  
 Ion Ratio Lower Upper  
 152 100  
 150 160.1 124.6 186.8  
 115 62.0 50.1 75.1



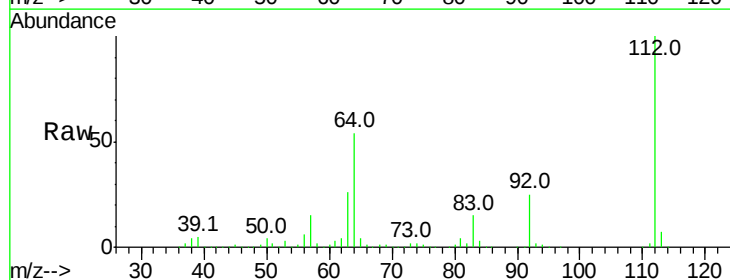
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



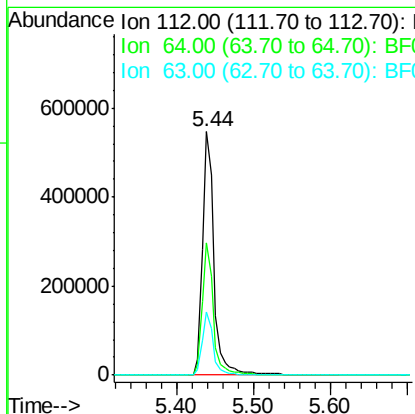
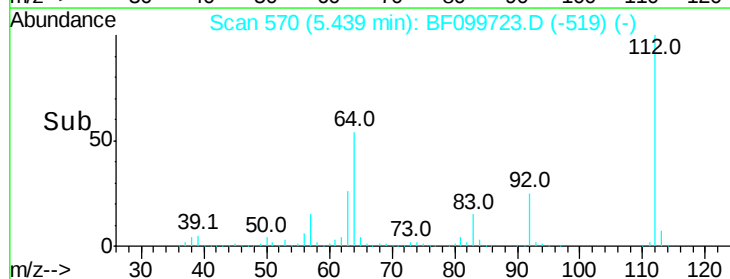
#5

2-Fluorophenol  
 Concen: 90.505 ng  
 RT: 5.44 min Scan# 570  
 Delta R.T. -0.00 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

Tgt Ion:112 Resp: 573158  
 Ion Ratio Lower Upper  
 112 100  
 64 54.2 47.9 71.9  
 63 25.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF0  
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 89.362 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF099723.D

Acq: 21 Oct 2017 13:03

Instrument :

BNA\_F

ClientSampled :

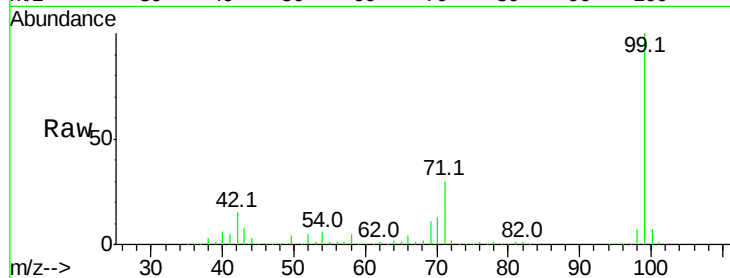
Tot Ion: 99 Resp: 698127

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.6  | 14.5  | 21.7  |
| 71  | 29.6  | 25.4  | 38.0  |

99 100

42 14.6 14.5 21.7

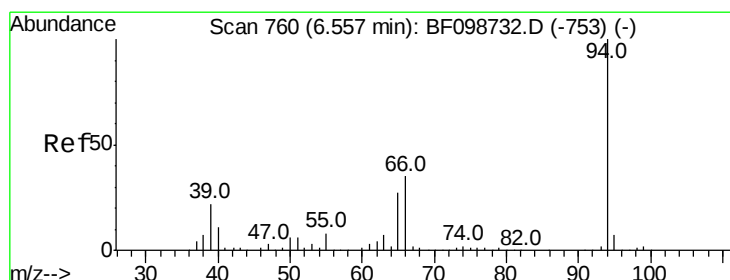
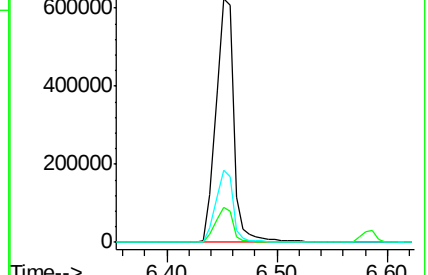
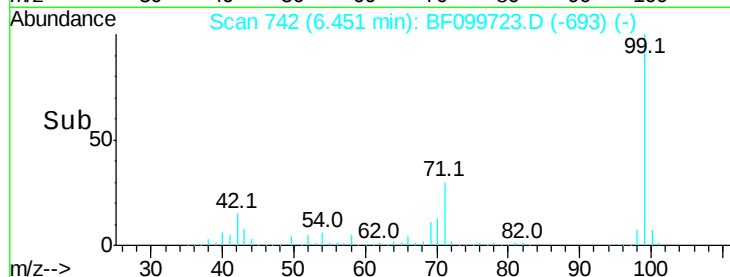
71 29.6 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 2.543 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.02 min

Lab File: BF099723.D

Acq: 21 Oct 2017 13:03

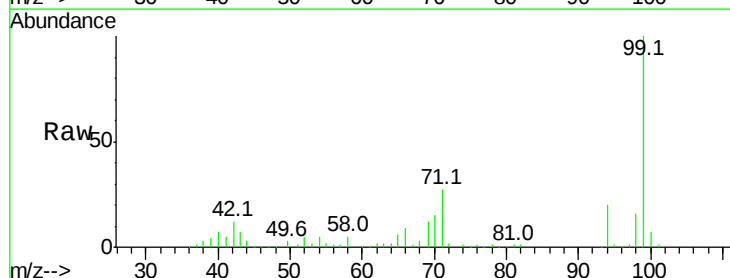
Tgt Ion: 94 Resp: 22216

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 31.5  | 7.9   | 47.9  |
| 66  | 48.6  | 16.2  | 56.2  |

94 100

65 31.5 7.9 47.9

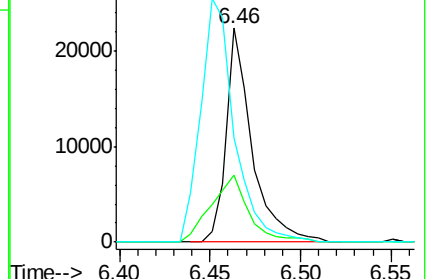
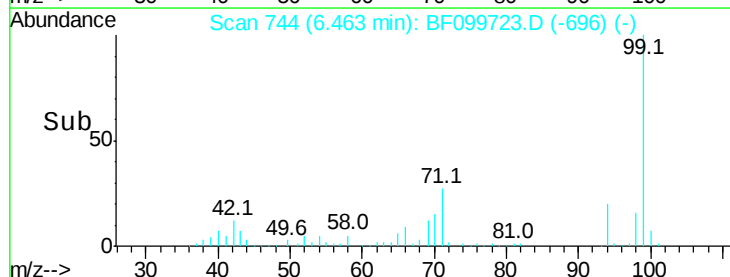
66 48.6 16.2 56.2

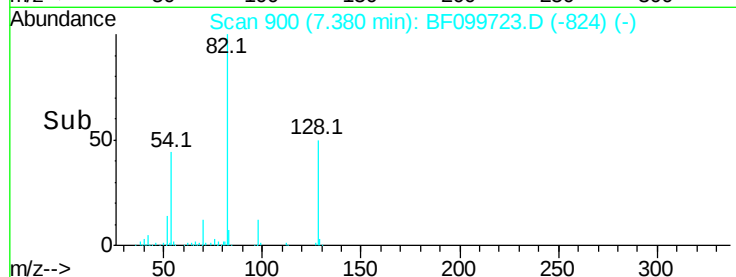
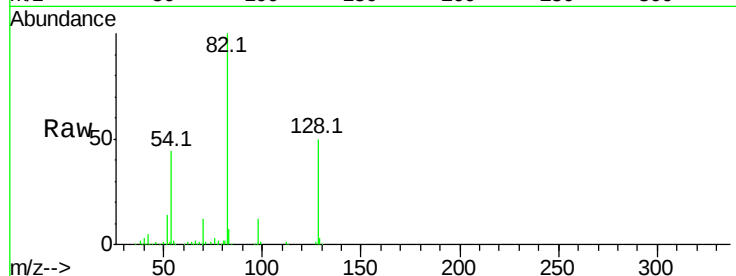
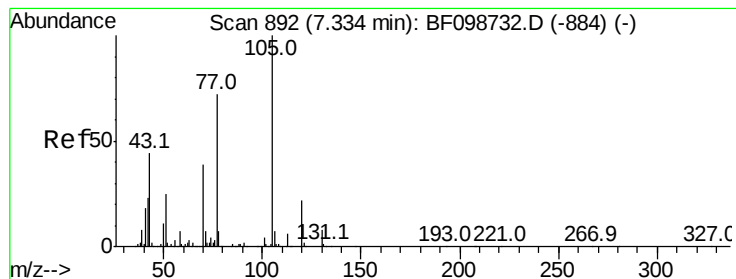


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 9.770 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.15 min

Lab File: BF099723.D

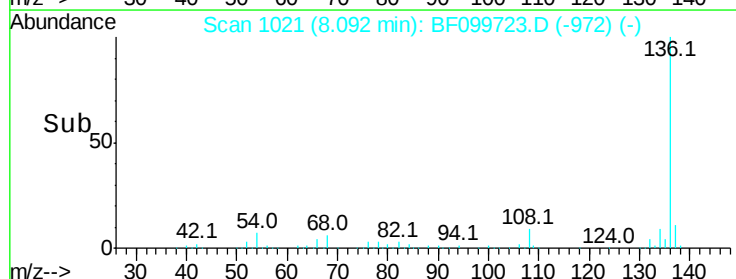
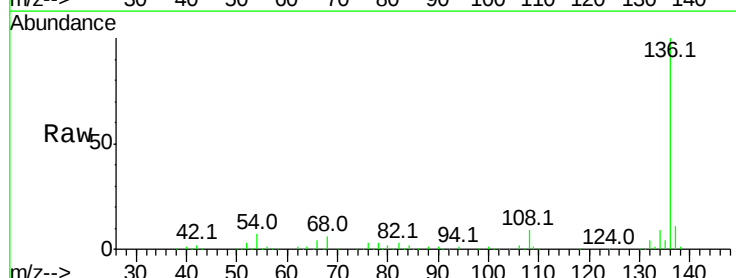
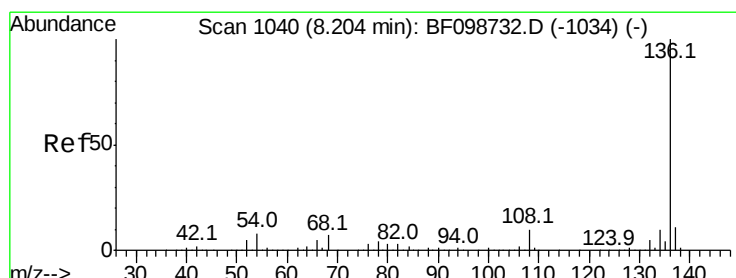
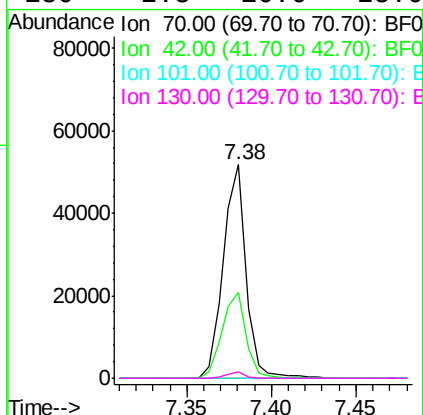
Acq: 21 Oct 2017 13:03

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 48732 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 39.9  | 47.5  | 71.3# |
| 101      | 0.0   | 7.4   | 11.2# |
| 130      | 2.8   | 16.6  | 25.0# |



#21

Naphthalene-d8

Concen: 20.000 ng

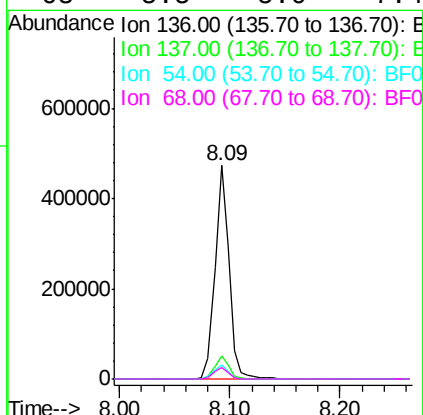
RT: 8.09 min Scan# 1021

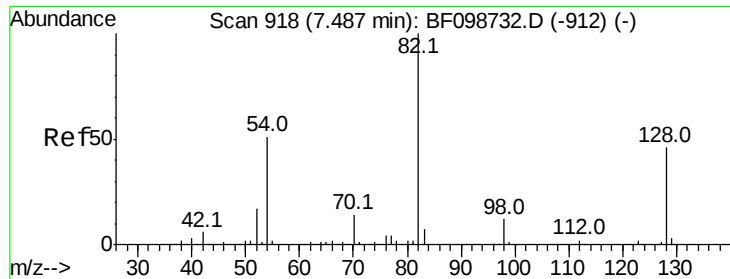
Delta R.T. -0.01 min

Lab File: BF099723.D

Acq: 21 Oct 2017 13:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 413582 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 6.7   | 6.6   | 9.8    |
| 68       | 5.5   | 5.0   | 7.4    |

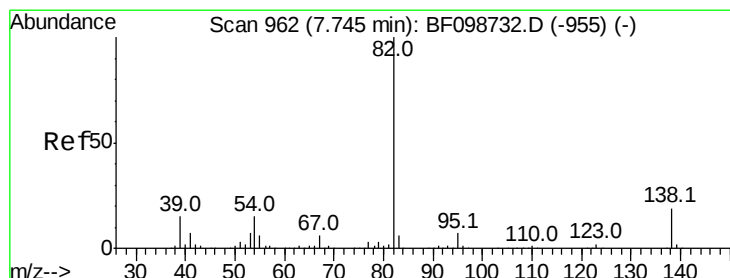
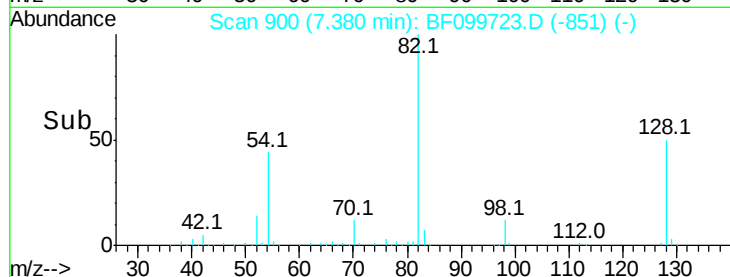
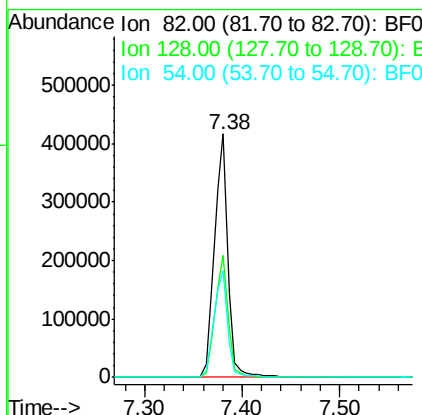
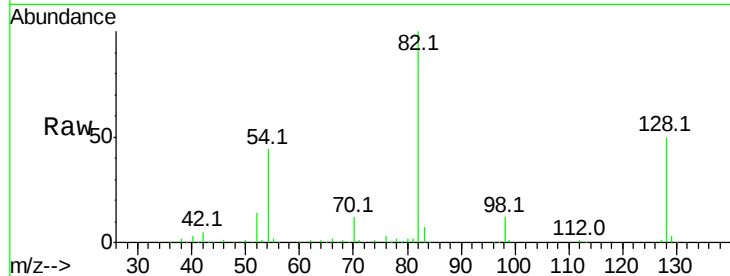




#23  
Nitrobenzene-d5  
Concen: 61.589 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

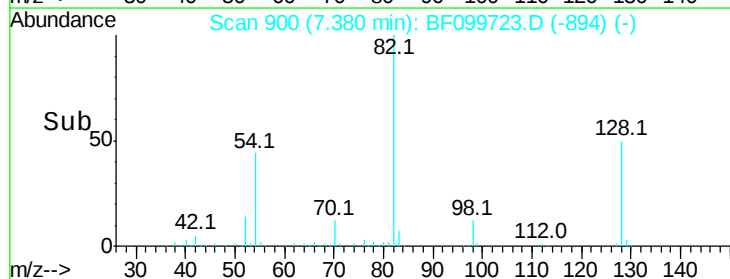
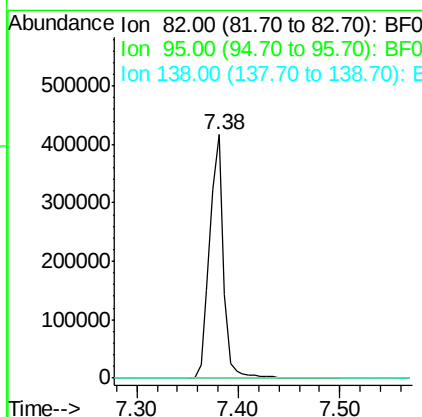
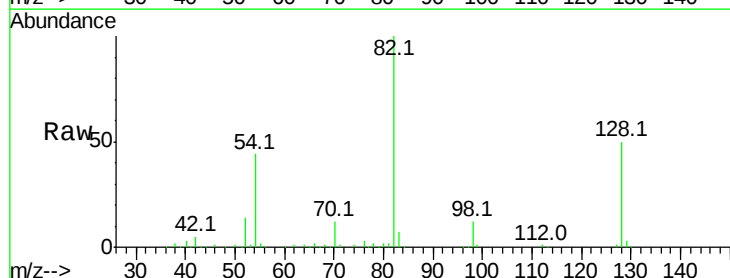
Instrument :  
BNA\_F  
ClientSampleId :

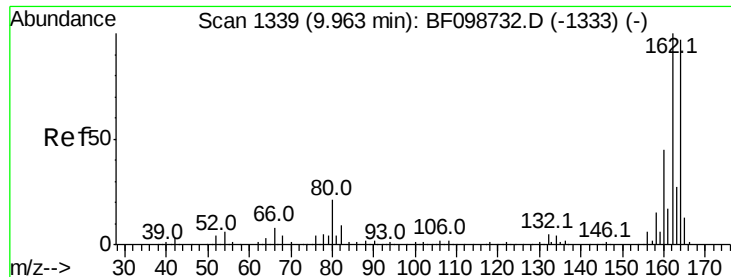
| Tot Ion   | 82    | Resp  | 397197 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 50.2  | 36.1  | 54.1   |
| 54        | 43.6  | 41.4  | 62.2   |



#25  
Isophorone  
Concen: 29.789 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.26 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

| Tgt Ion   | 82    | Resp  | 397193 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.2   | 7.8#   |
| 138       | 0.0   | 14.9  | 22.3#  |

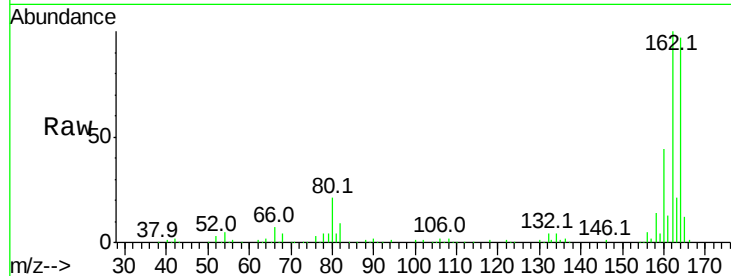




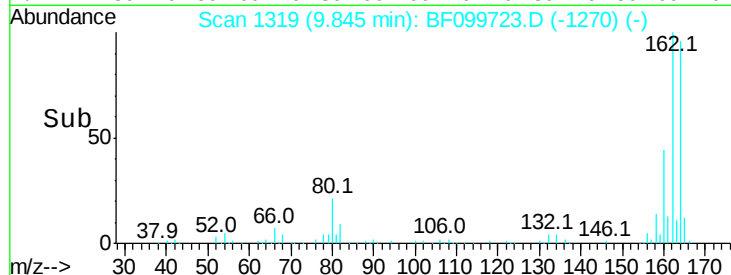
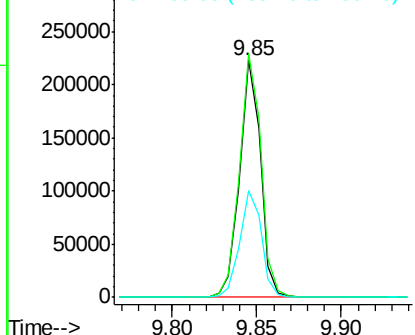
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1319  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 191416  
Ion Ratio Lower Upper  
164 100  
162 102.9 86.1 129.1  
160 45.0 38.3 57.5

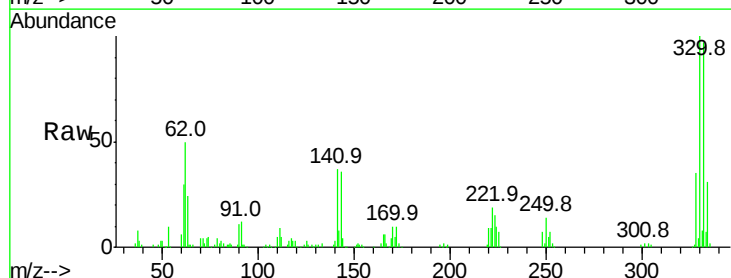


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

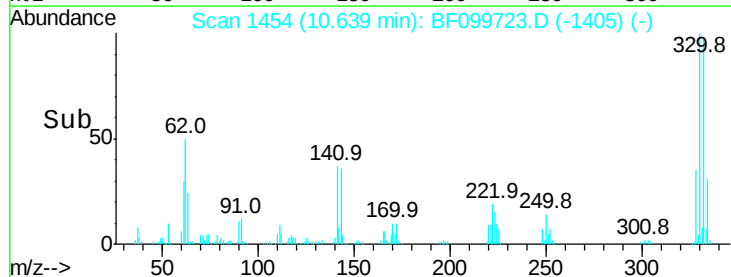
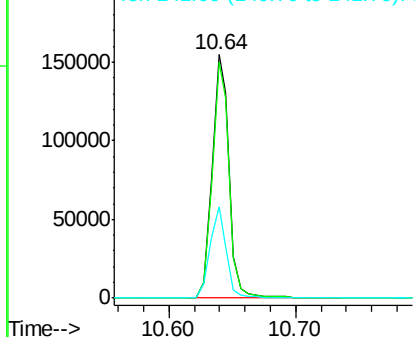


#41  
2,4,6-Tribromophenol  
Concen: 93.200 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Tgt Ion:330 Resp: 145979  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.0 115.6  
141 36.4 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

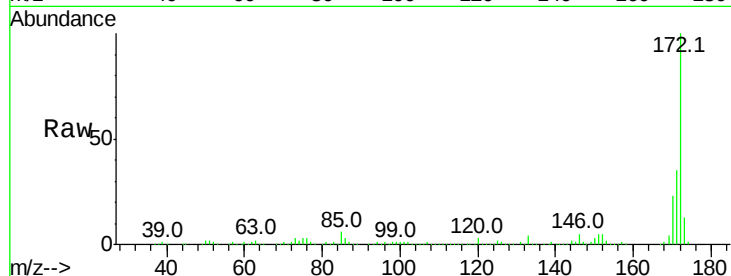




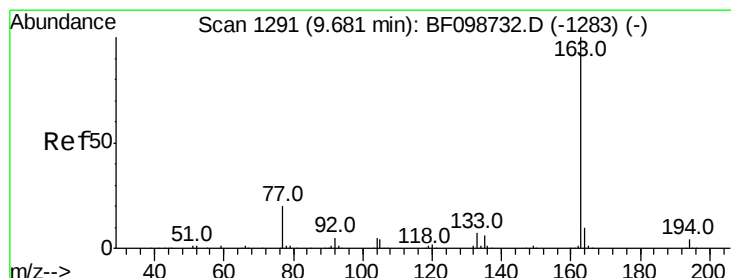
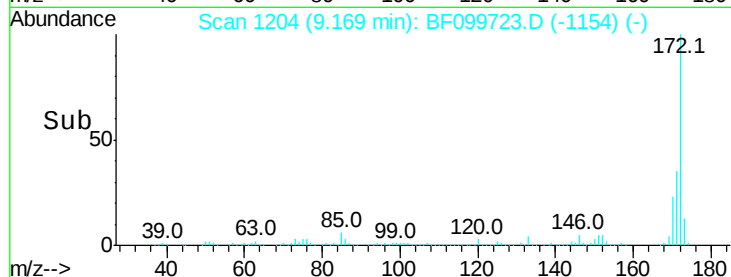
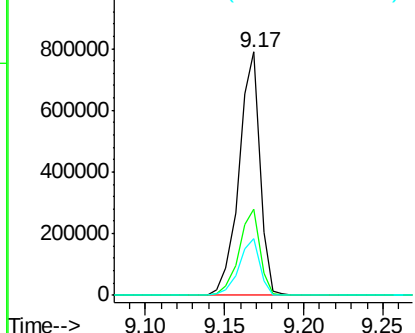
#44  
2-Fluorobiphenyl  
Concen: 63.188 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 724515  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.7 44.5  
170 23.2 19.6 29.4

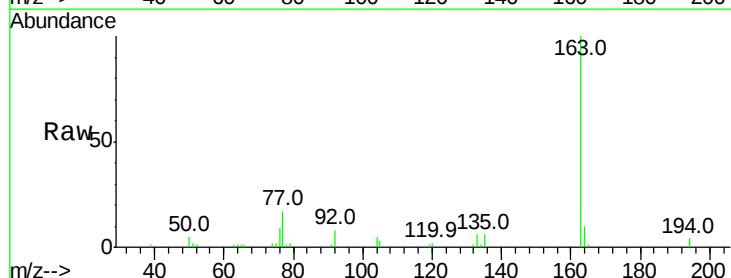


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

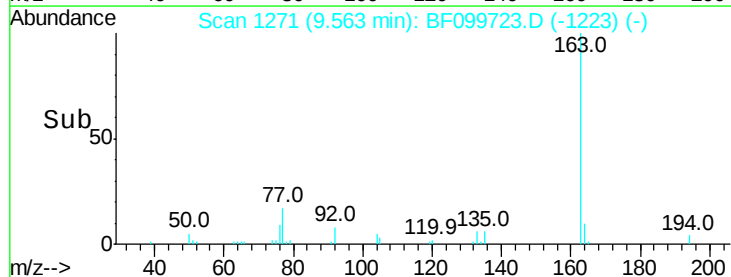
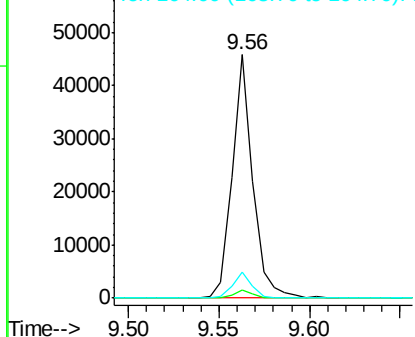


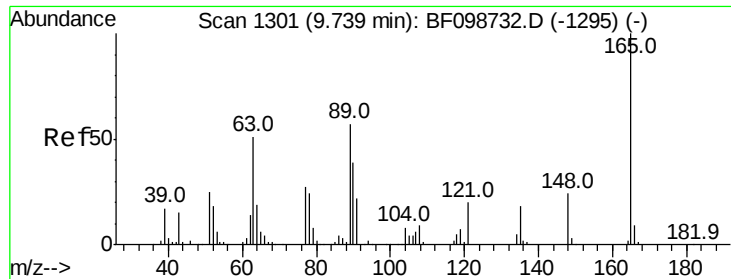
#49  
Dimethylphthalate  
Concen: 2.511 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Tgt Ion:163 Resp: 36271  
Ion Ratio Lower Upper  
163 100  
194 3.5 2.7 4.1  
164 10.5 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

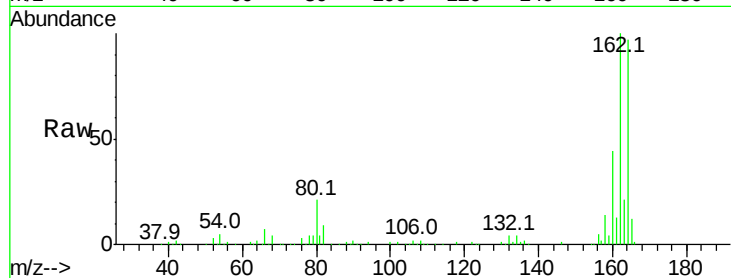




#50  
 2,6-Dinitrotoluene  
 Concen: 7.652 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.19 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

Instrument :  
 BNA\_F  
 ClientSampleId :

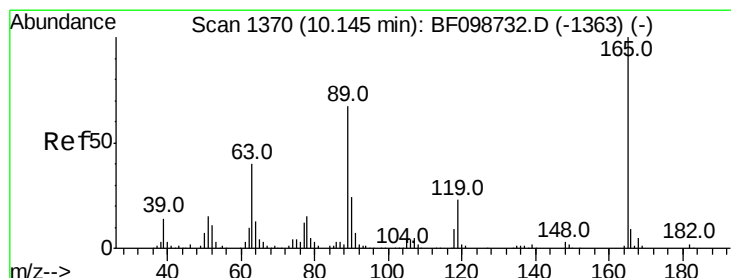
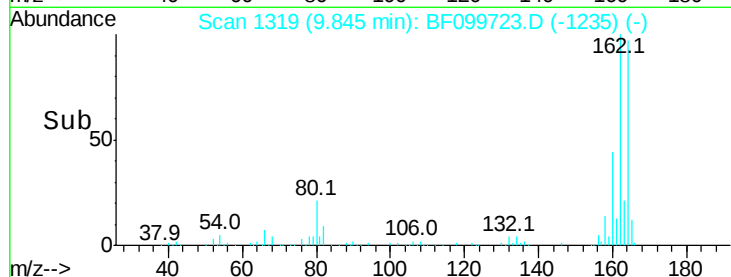
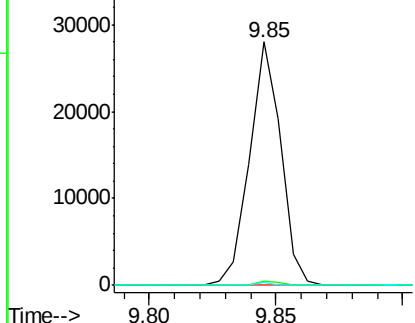
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 44.7  | 67.1# |
| 89      | 1.2   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 5.896 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.21 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

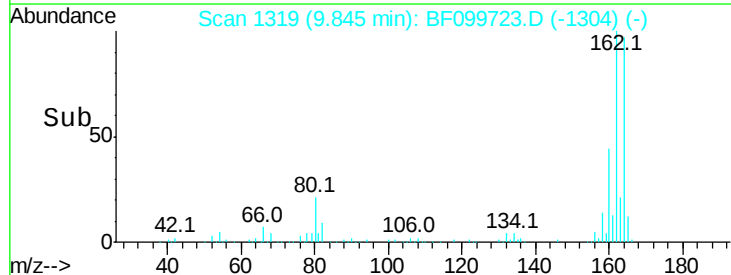
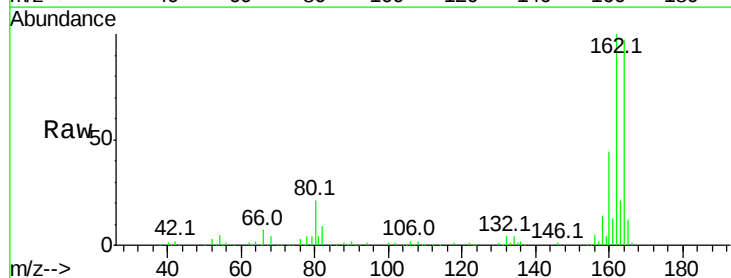
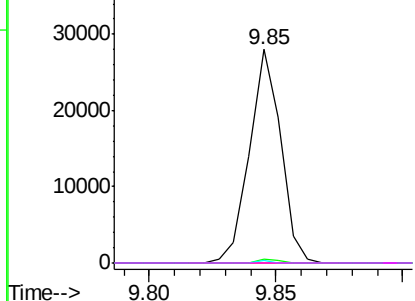
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

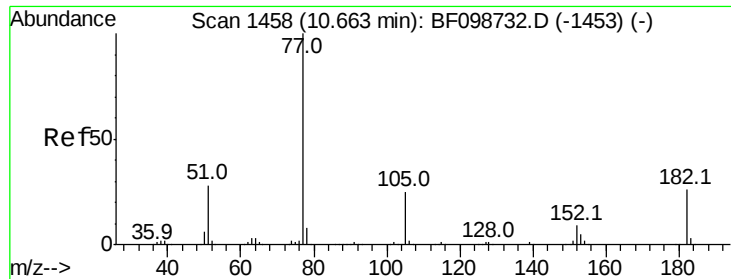
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

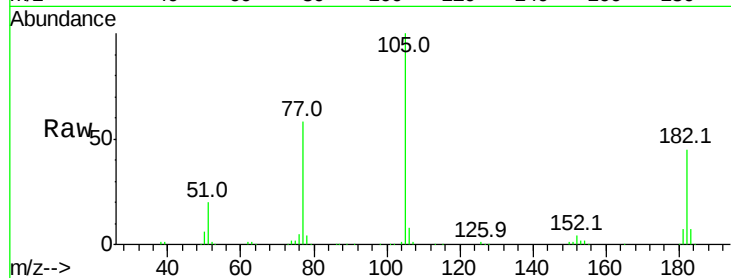




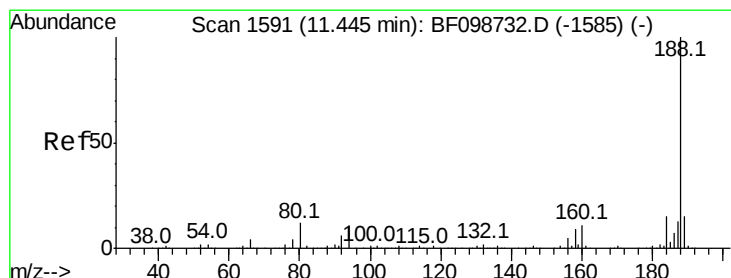
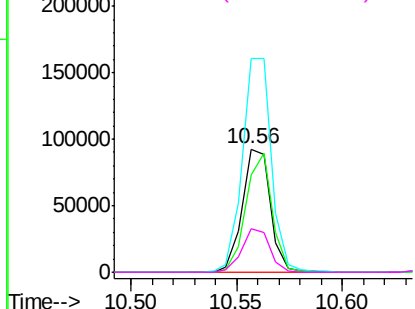
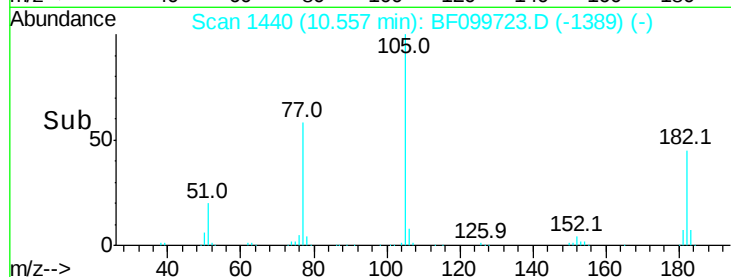
#62  
Azobenzene  
Concen: 6.584 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.00 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 77 Resp: 85459  
Ion Ratio Lower Upper  
77 100  
182 78.8 1.7 41.7#  
105 173.6 3.0 43.0#  
51 35.4 9.9 49.9

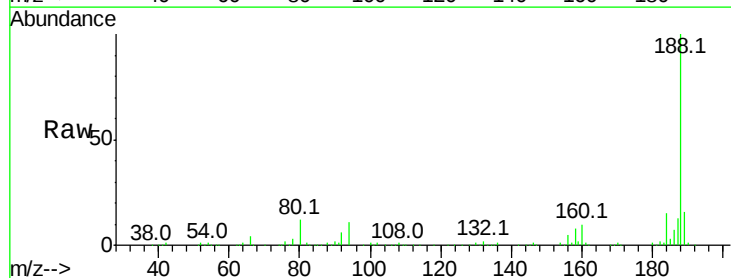


Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 182.00 (181.70 to 182.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 51.00 (50.70 to 51.70): BF0

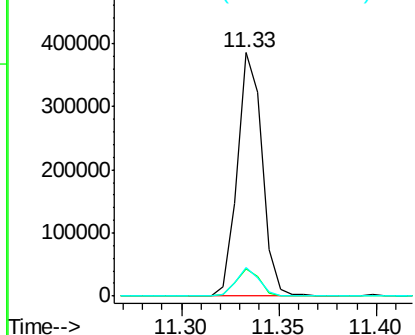
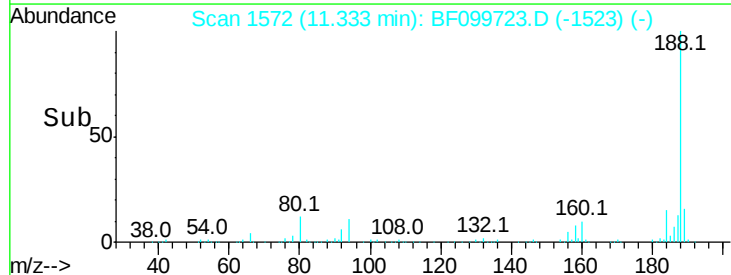


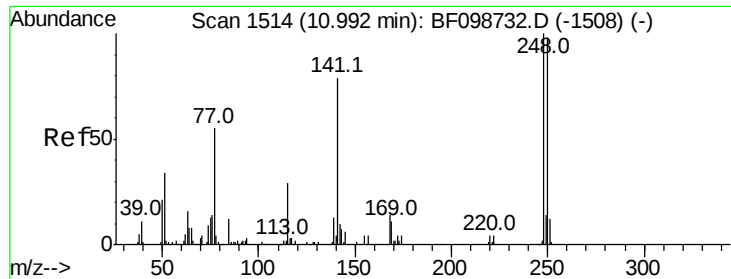
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Tgt Ion: 188 Resp: 339754  
Ion Ratio Lower Upper  
188 100  
94 11.3 8.5 12.7  
80 11.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

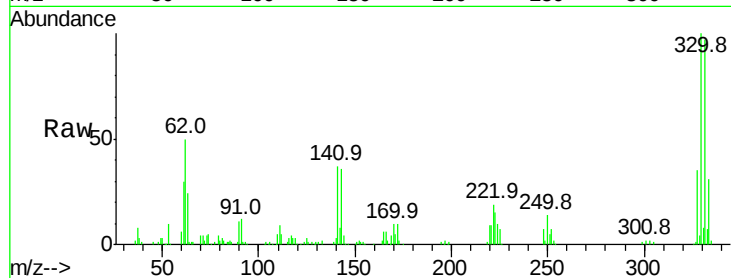




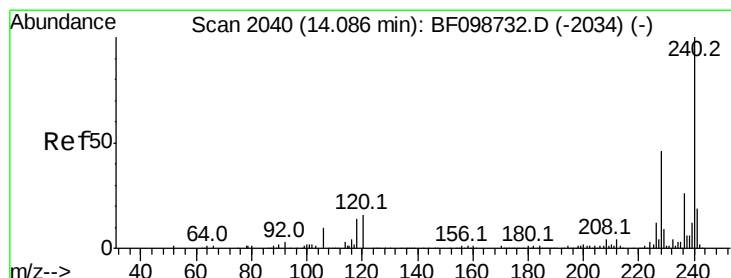
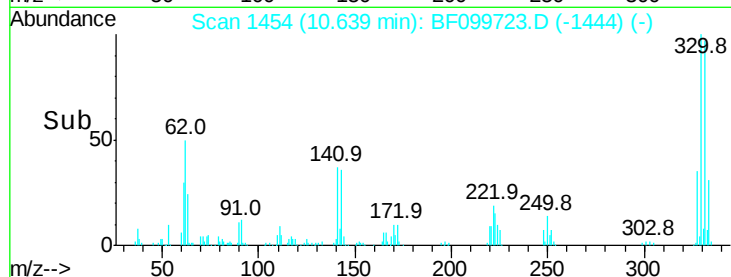
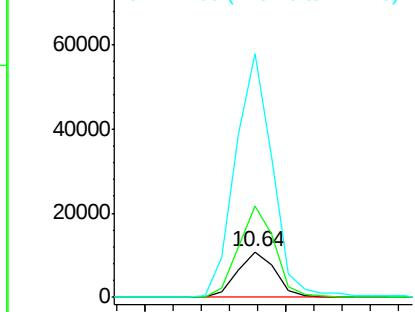
#66  
4-Bromophenyl-phenylether  
Concen: 2.982 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.24 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 9918  
Ion Ratio Lower Upper  
248 100  
250 199.8 76.9 115.3#  
141 535.1 74.4 111.6#

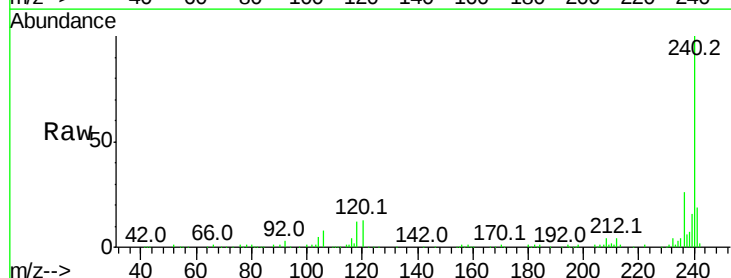


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

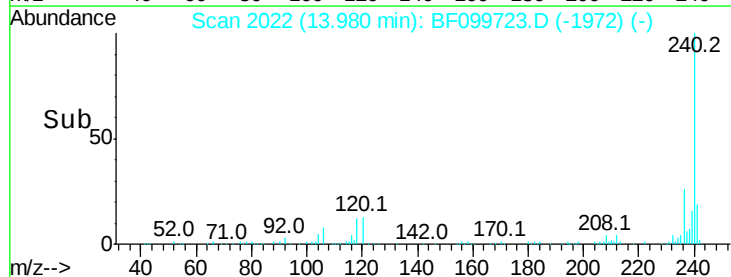
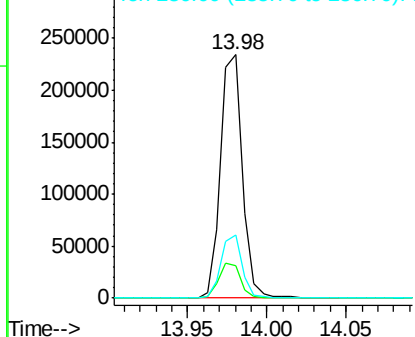


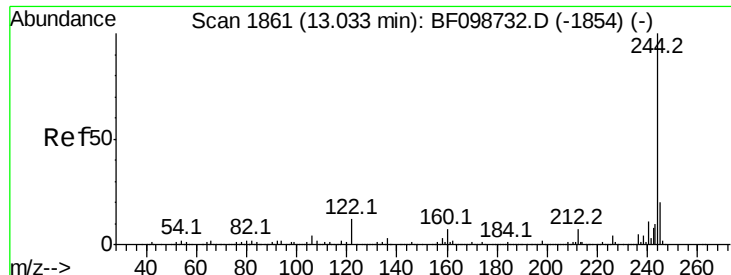
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BF099723.D  
Acq: 21 Oct 2017 13:03

Tgt Ion:240 Resp: 222977  
Ion Ratio Lower Upper  
240 100  
120 13.1 9.5 14.3  
236 26.0 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

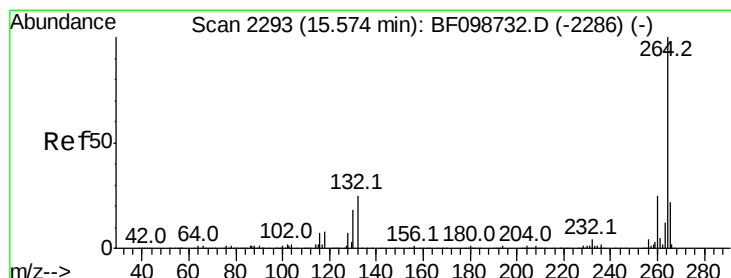
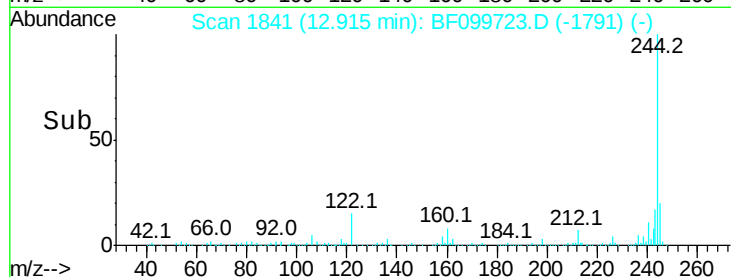
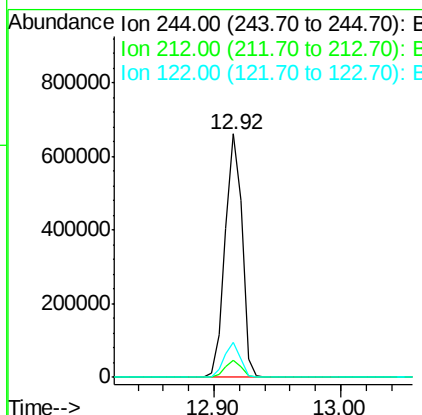
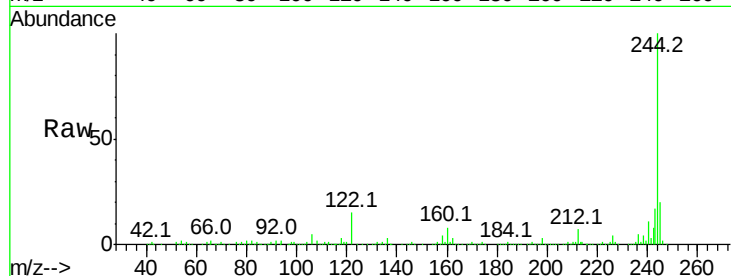




#78  
 Terphenyl-d14  
 Concen: 62.502 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 612810  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.0  
 122 14.5 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.44 min Scan# 2270  
 Delta R.T. -0.00 min  
 Lab File: BF099723.D  
 Acq: 21 Oct 2017 13:03

Tgt Ion:264 Resp: 157669  
 Ion Ratio Lower Upper  
 264 100  
 260 21.8 19.2 28.8  
 265 20.8 17.5 26.3

