

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111017\  
 Data File : BF100426.D  
 Acq On : 11 Nov 2017 7:30  
 Operator : SJ/JU  
 Sample : I6355-16  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 13 07:19:19 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 10 15:44:40 2017  
 Response via : Initial Calibration

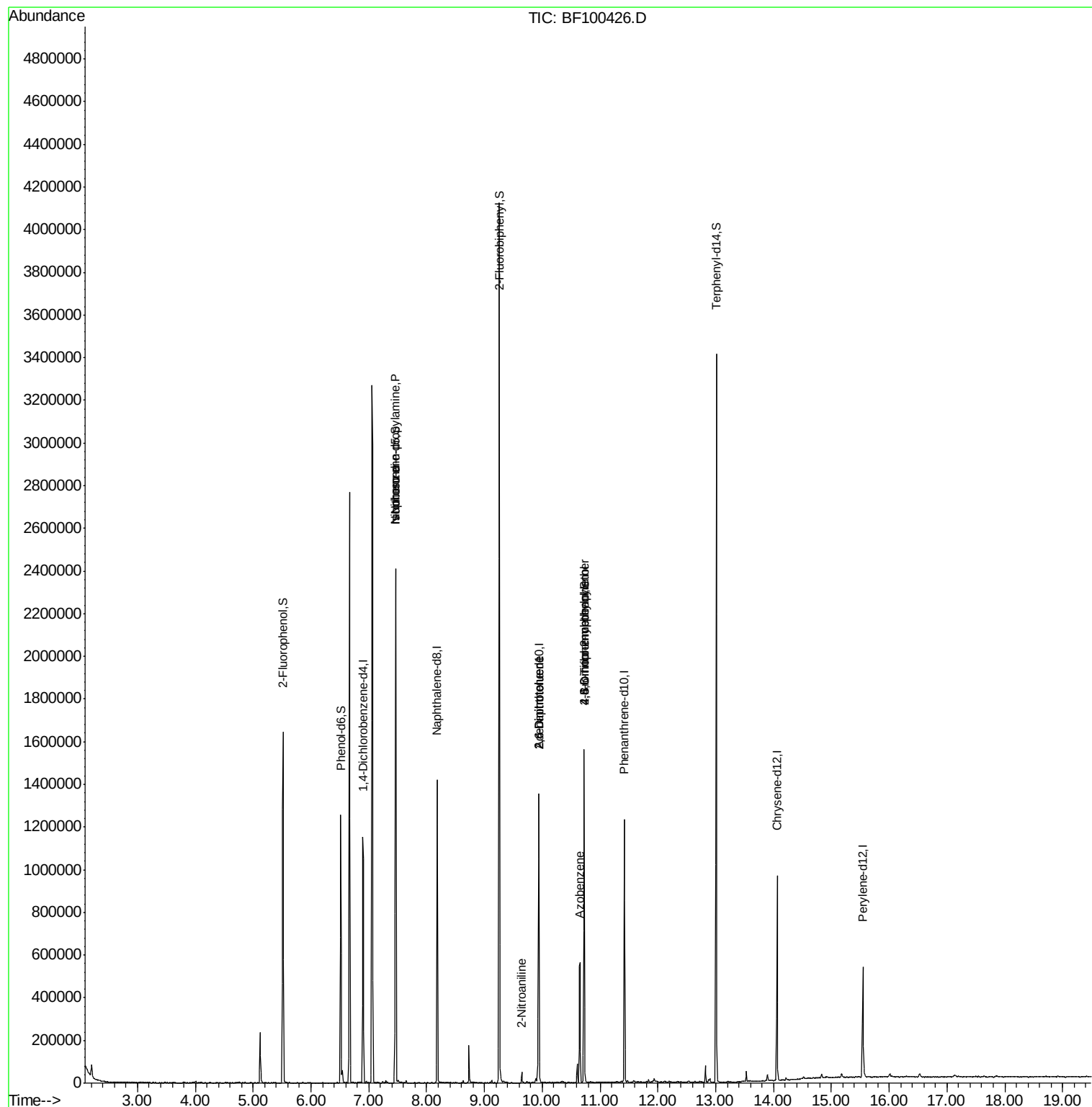
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 168380   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.18  | 136  | 619299   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.94  | 164  | 254919   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.42 | 188  | 409352   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.06 | 240  | 332895   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.54 | 264  | 258748   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 417574   | 39.75  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 345857   | 26.70  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 913563   | 97.53  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 196811   | 75.77  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.26  | 172  | 1504526  | 89.87  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.01 | 244  | 1120040  | 77.31  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 121820   | 13.561 | ng    | # 82     |
| 25) Isophorone                 | 7.46  | 82   | 910569   | 46.258 | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.65  | 65   | 118      | 2.807  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.94  | 165  | 33435    | 8.678  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.94  | 165  | 33435    | 6.879  | ng    | # 23     |
| 62) Azobenzene                 | 10.65 | 77   | 100314   | 5.468  | ng    | # 1      |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 314      | 8.695  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 12271    | 2.796  | ng    | # 1      |

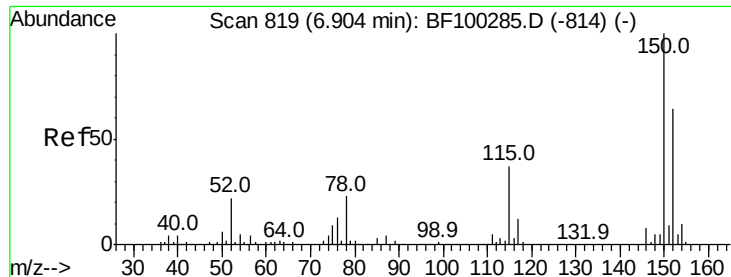
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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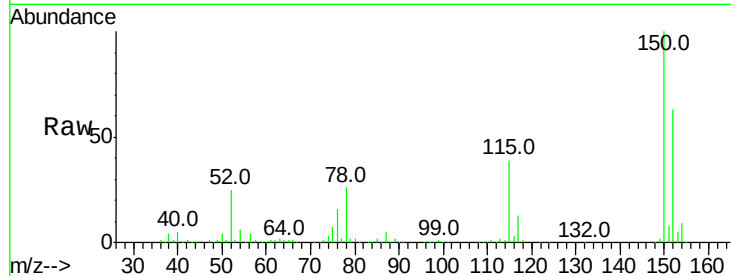


#1

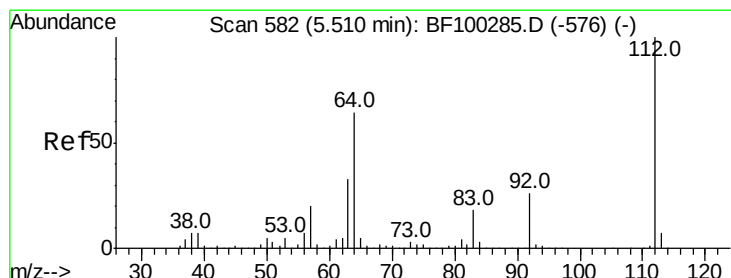
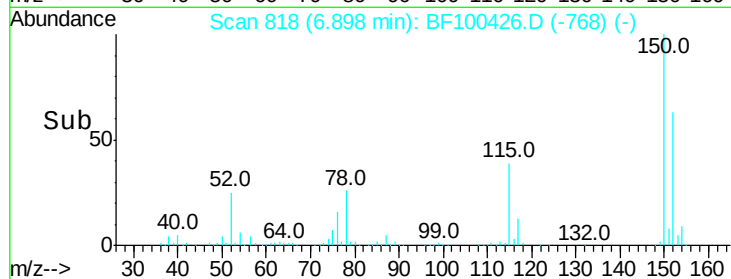
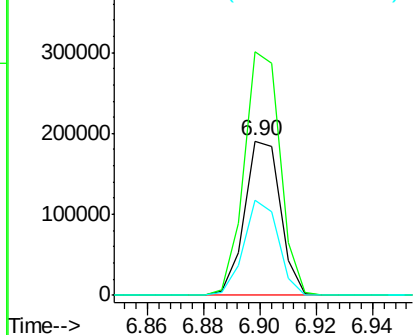
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 124.6 | 186.8 |
| 115     | 61.8  | 50.1  | 75.1  |



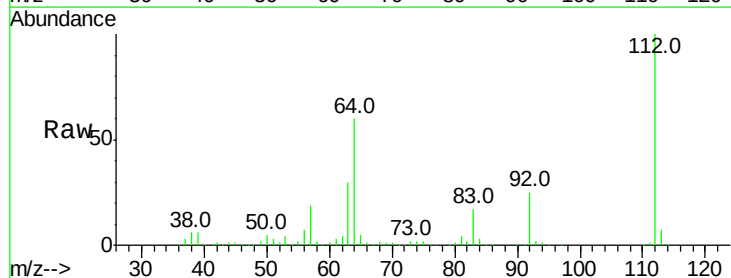
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



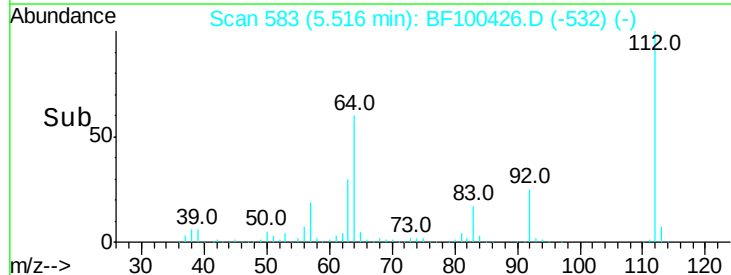
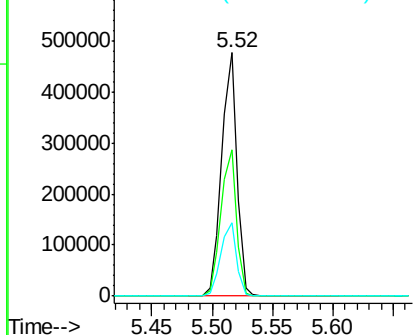
#5

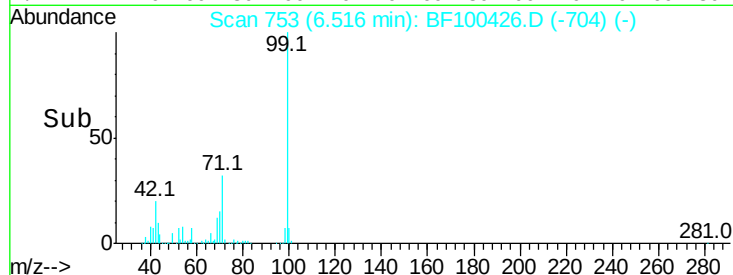
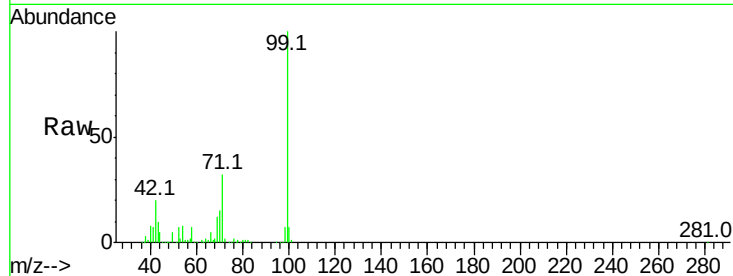
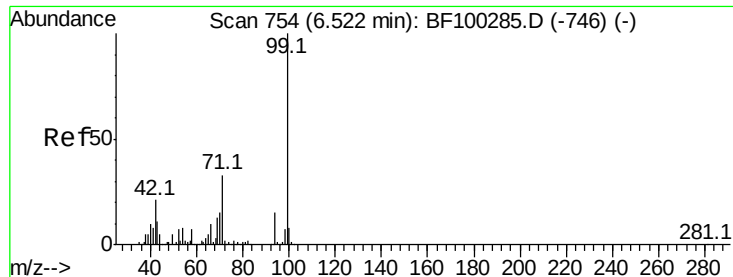
2-Fluorophenol  
Concen: 39.753 ng  
RT: 5.52 min Scan# 583  
Delta R.T. -0.00 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.3  | 47.9  | 71.9  |
| 63      | 30.2  | 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: 26.701 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF100426.D

Acq: 11 Nov 2017 7:30

Instrument :

BNA\_F

ClientSampleId :

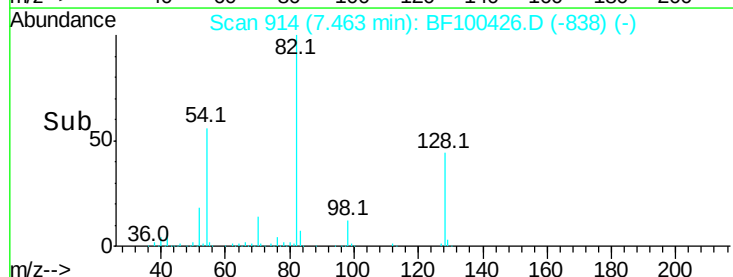
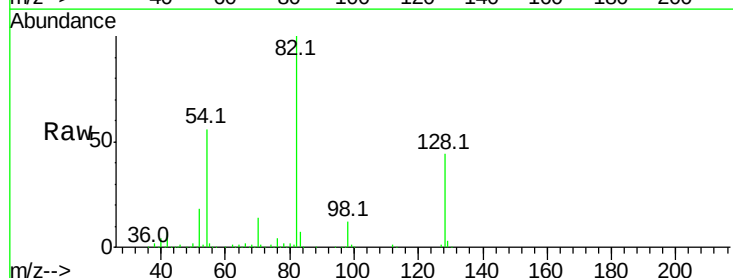
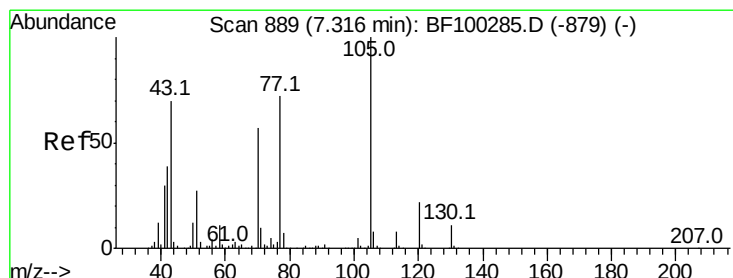
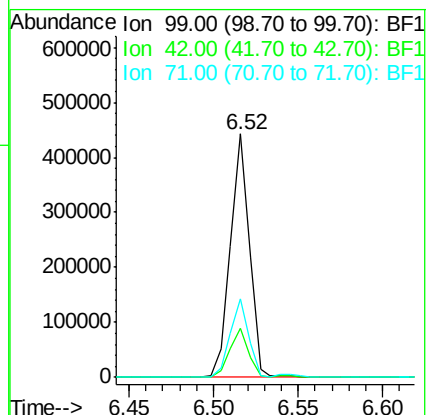
Tot Ion: 99 Resp: 345857

Ion Ratio Lower Upper

99 100

42 20.1 14.5 21.7

71 32.4 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 13.561 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.15 min

Lab File: BF100426.D

Acq: 11 Nov 2017 7:30

Tgt Ion: 70 Resp: 121820

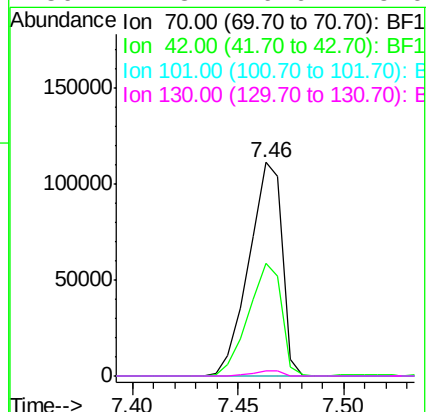
Ion Ratio Lower Upper

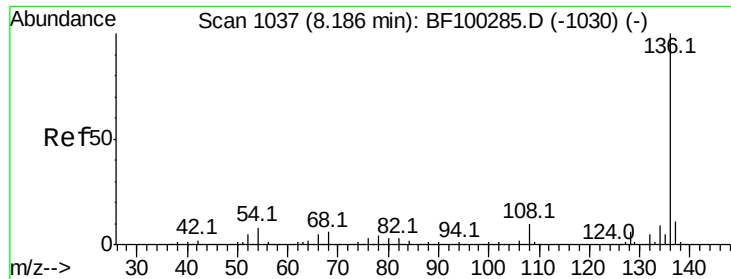
70 100

42 52.7 47.5 71.3

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

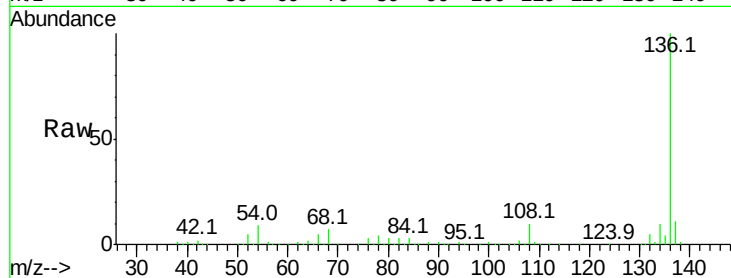




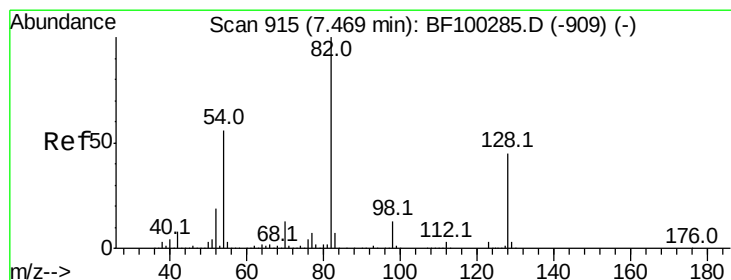
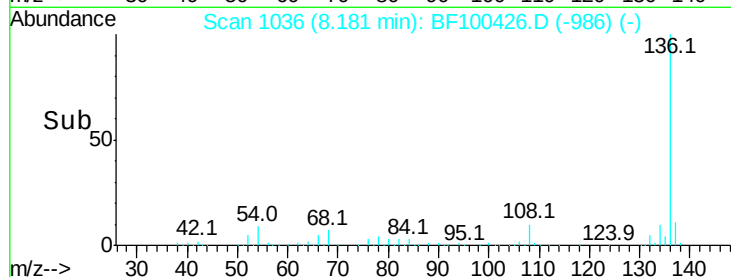
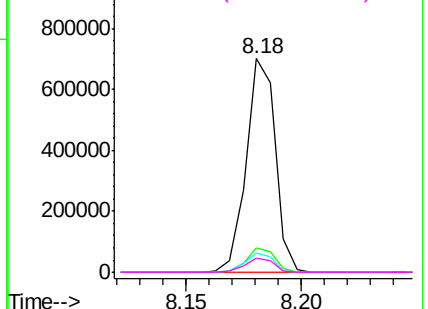
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 619299 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 8.9   | 13.3   |
| 54       | 9.1   | 6.6   | 9.8    |
| 68       | 6.9   | 5.0   | 7.4    |

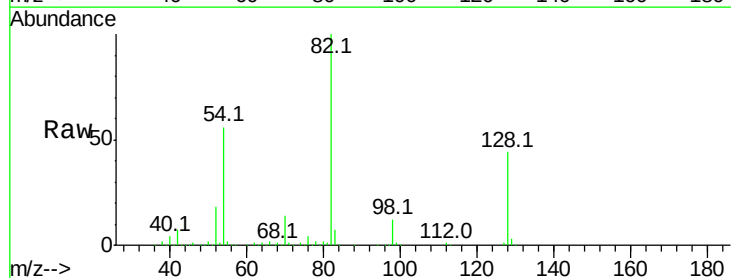


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

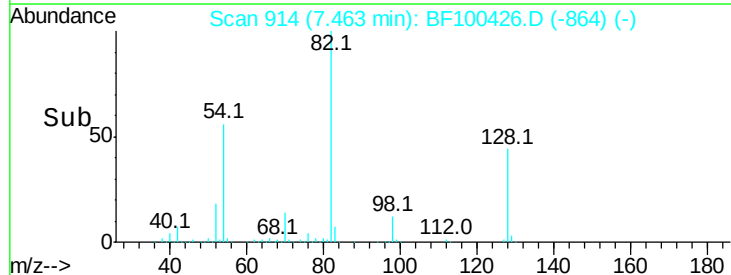
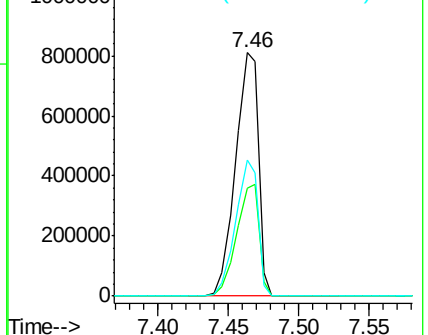


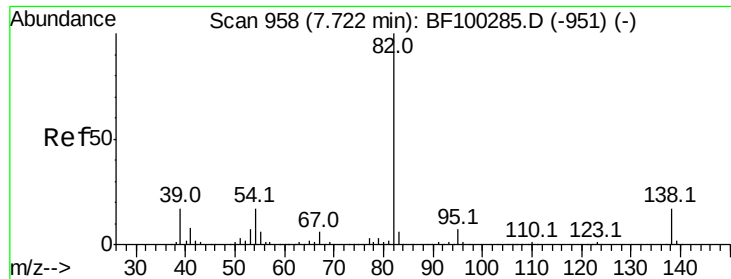
#23  
Nitrobenzene-d5  
Concen: 97.528 ng  
RT: 7.46 min Scan# 914  
Delta R.T. -0.01 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 913563 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.5  | 36.1  | 54.1   |
| 54       | 56.1  | 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

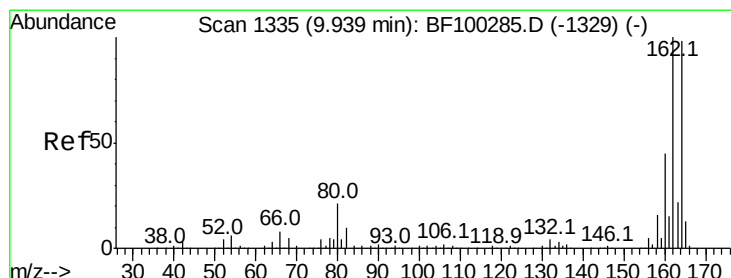
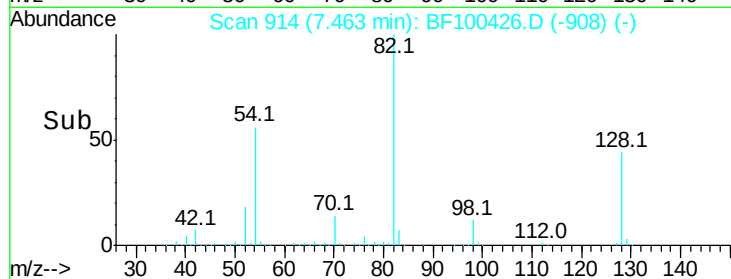
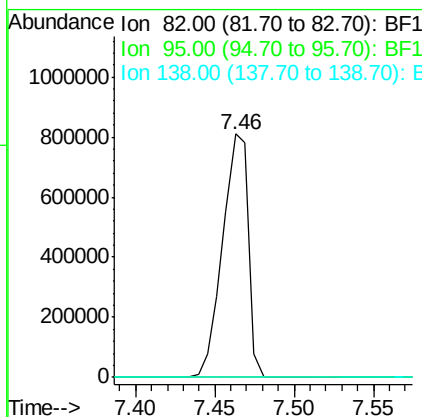
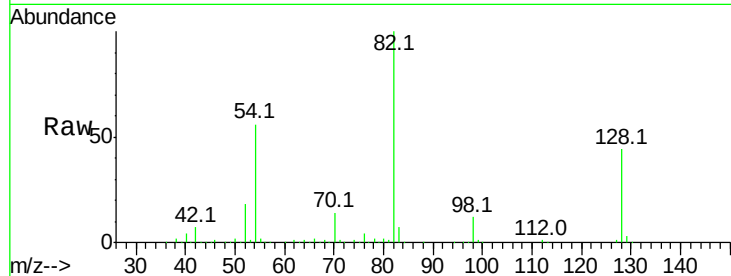




#25  
Isophorone  
Concen: 46.258 ng  
RT: 7.46 min Scan# 914  
Delta R.T. -0.26 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

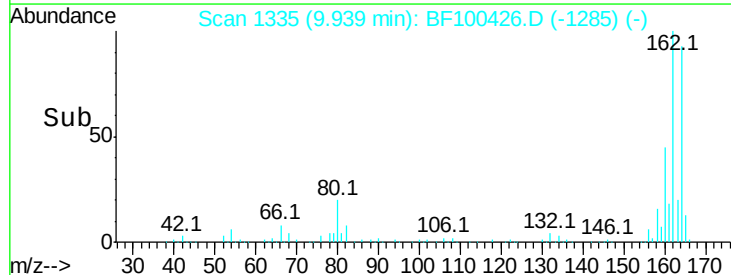
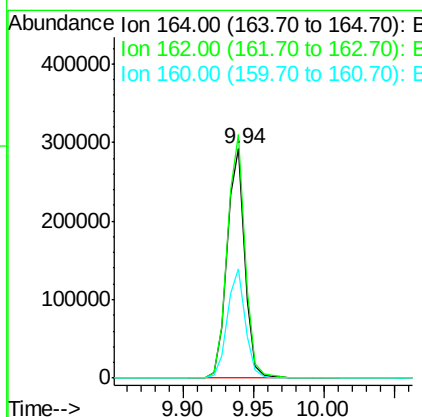
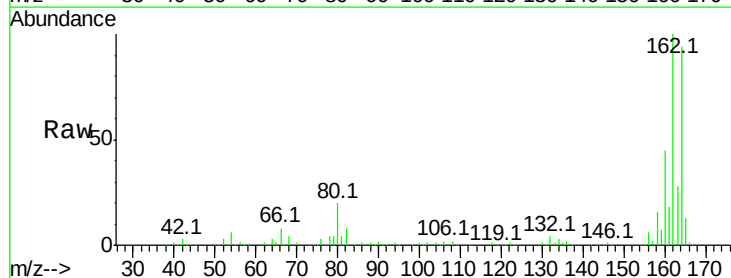
Instrument :  
BNA\_F  
ClientSampled :

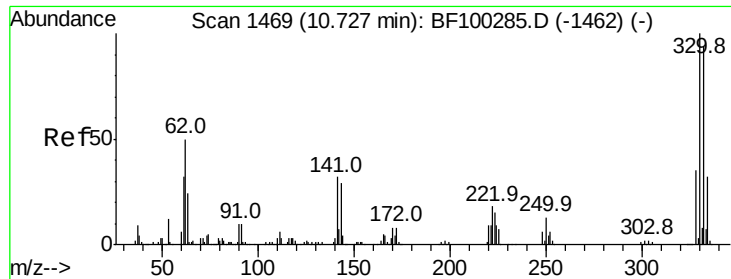
Tot Ion: 82 Resp: 910569  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. -0.01 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Tgt Ion:164 Resp: 254919  
Ion Ratio Lower Upper  
164 100  
162 106.1 86.1 129.1  
160 47.6 38.3 57.5

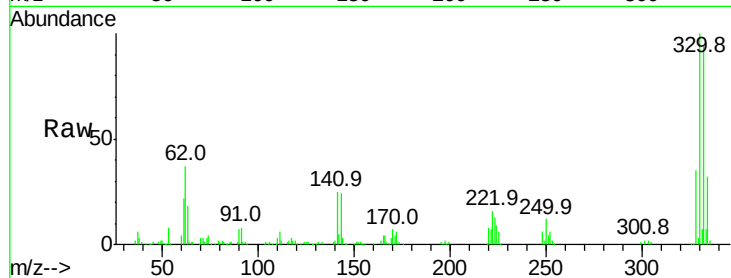




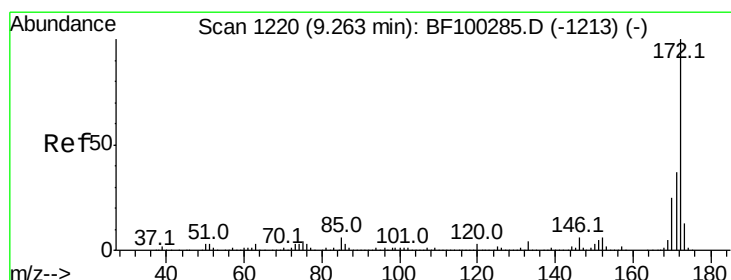
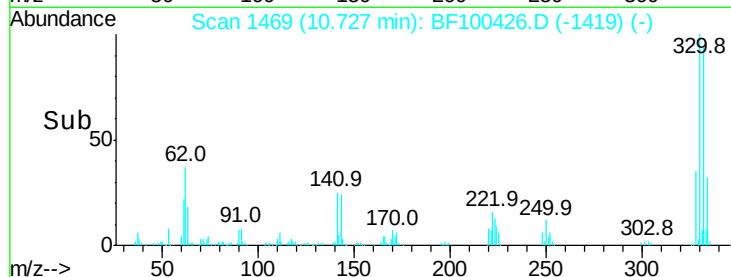
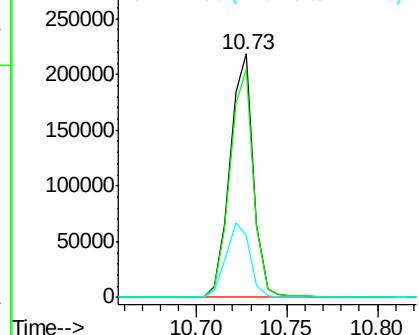
#41  
 2,4,6-Tribromophenol  
 Concen: 75.766 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.7  | 77.0  | 115.6 |
| 141     | 31.4  | 29.9  | 44.9  |

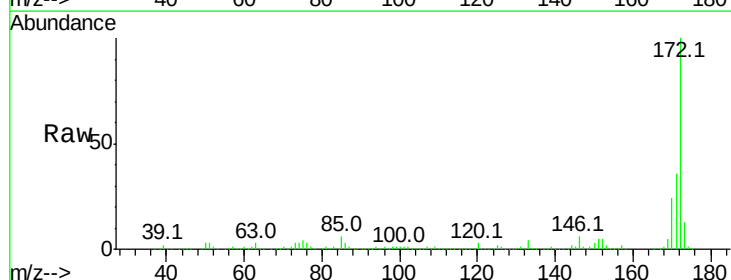


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

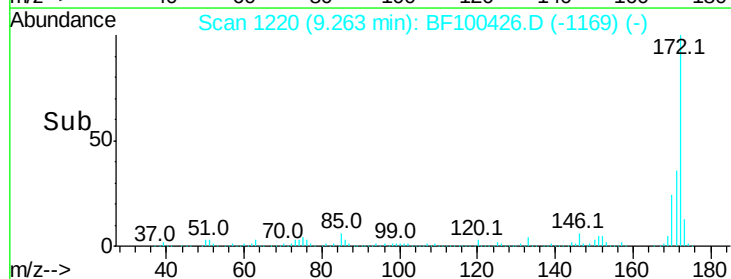
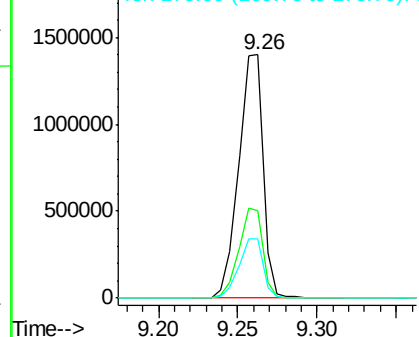


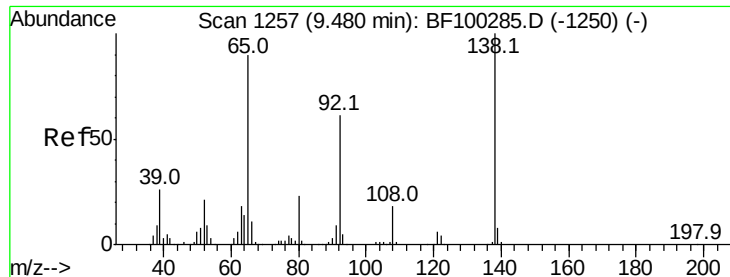
#44  
 2-Fluorobiphenyl  
 Concen: 89.870 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. -0.00 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.7  | 44.5  |
| 170     | 24.3  | 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

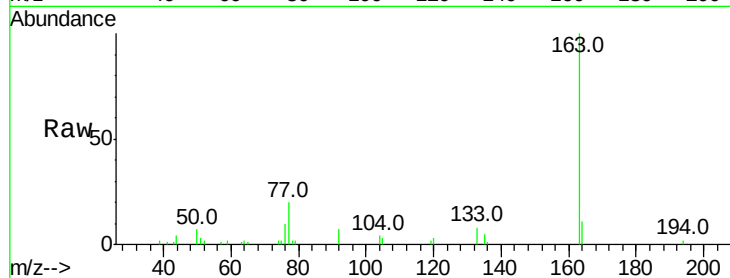




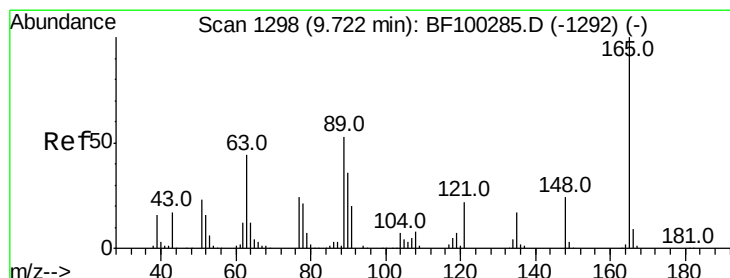
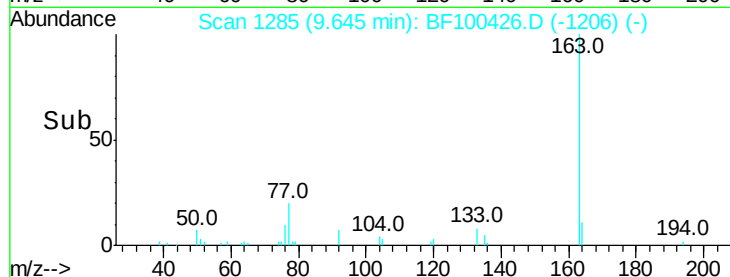
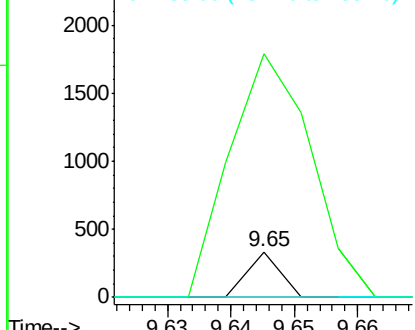
#47  
2-Nitroaniline  
Concen: 2.807 ng  
RT: 9.65 min Scan# 1285  
Delta R.T. 0.16 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 65 Resp: 118  
Ion Ratio Lower Upper  
65 100  
92 537.2 55.8 83.6#  
138 0.0 91.2 136.8#

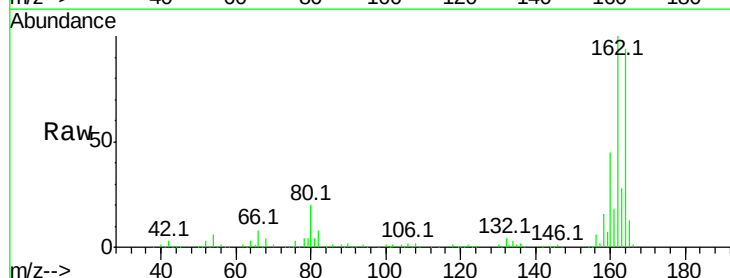


Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

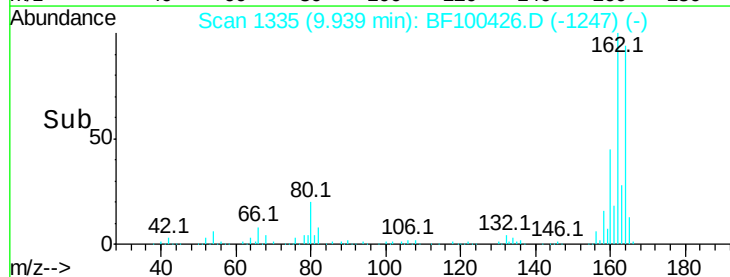
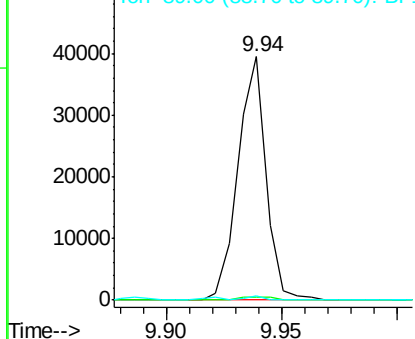


#50  
2,6-Dinitrotoluene  
Concen: 8.678 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. 0.22 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

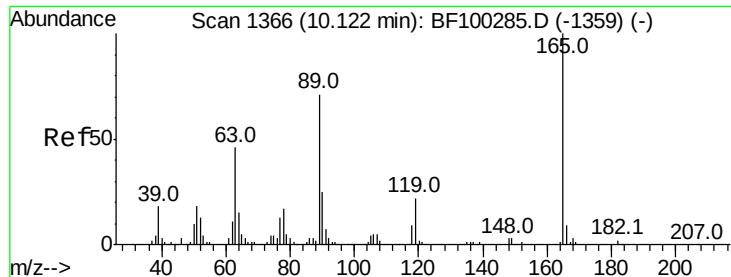
Tgt Ion:165 Resp: 33435  
Ion Ratio Lower Upper  
165 100  
63 1.4 44.7 67.1#  
89 1.5 44.0 66.0#



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



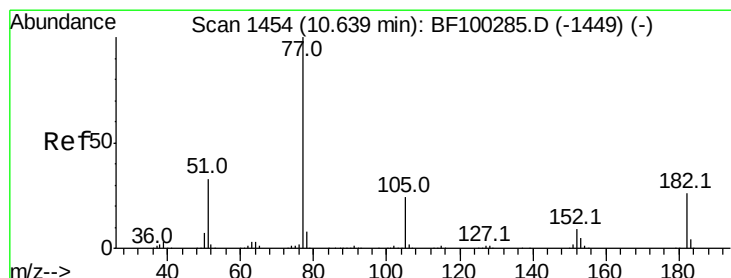
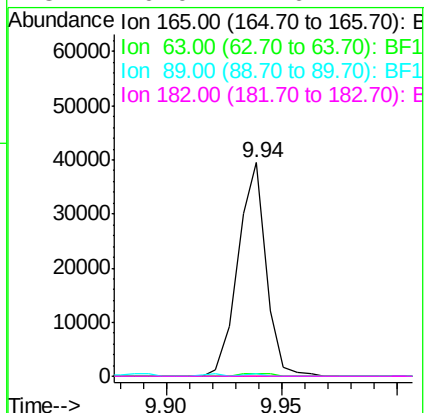
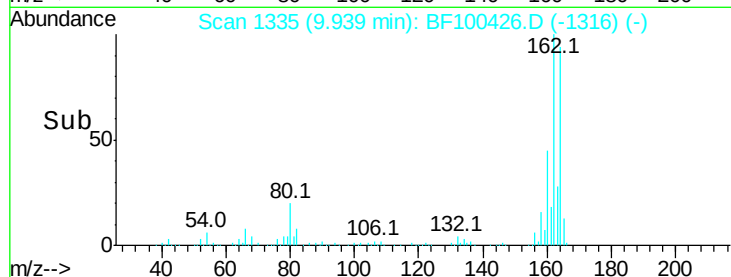
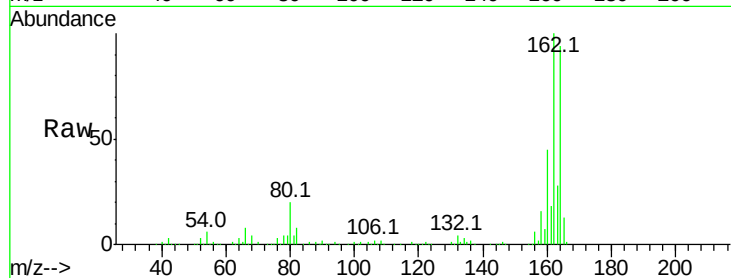




#56  
 2,4-Dinitrotoluene  
 Concen: 6.879 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. -0.19 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

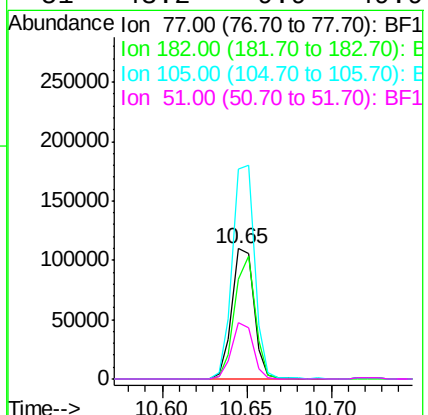
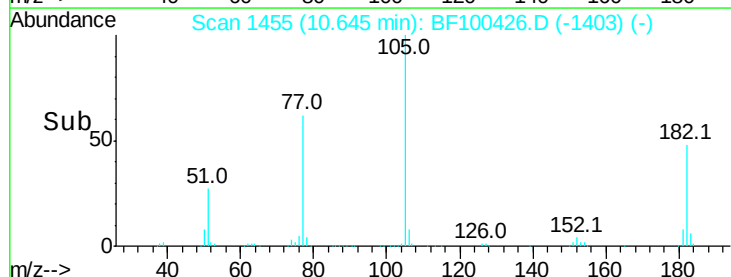
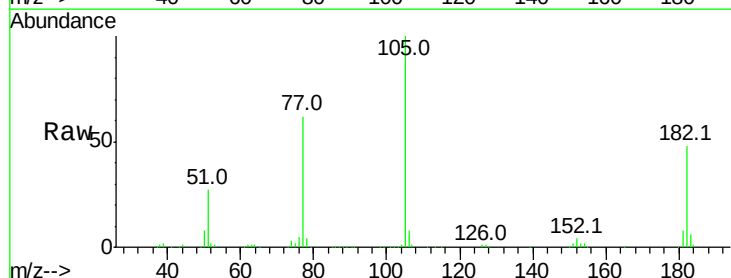
Instrument :  
 BNA\_F  
 ClientSampleId :

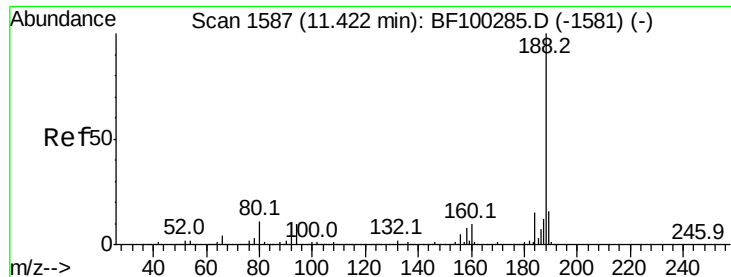
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 33435 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.4   | 36.4  | 54.6# |
| 89       | 1.5   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#62  
 Azobenzene  
 Concen: 5.468 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. 0.01 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 100314 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 76.7  | 1.7   | 41.7#  |
| 105      | 160.6 | 3.0   | 43.0#  |
| 51       | 43.2  | 9.9   | 49.9   |

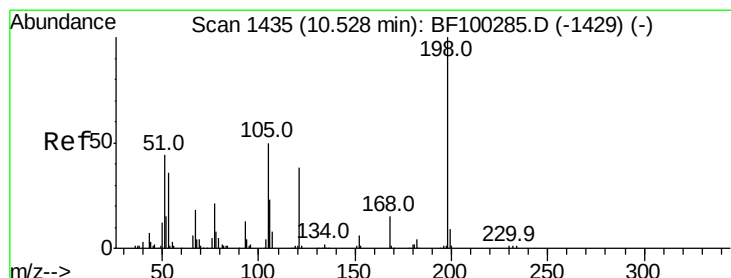
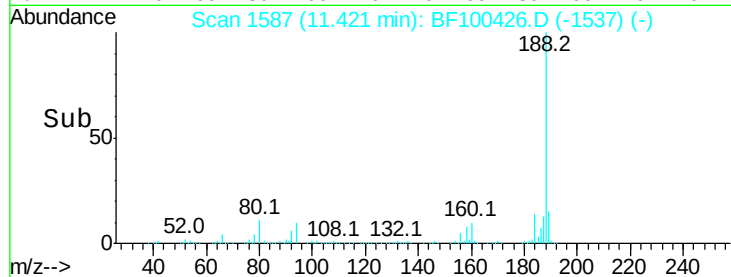
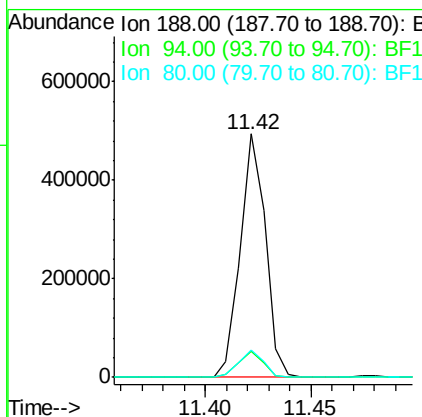
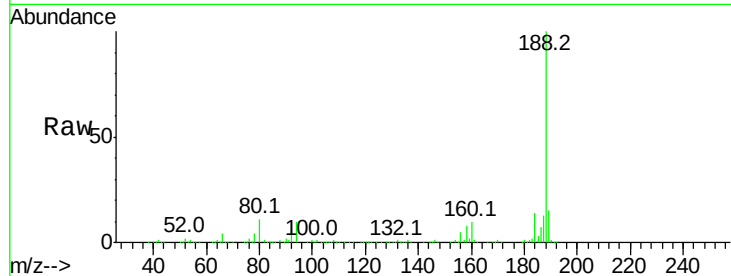




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. -0.01 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

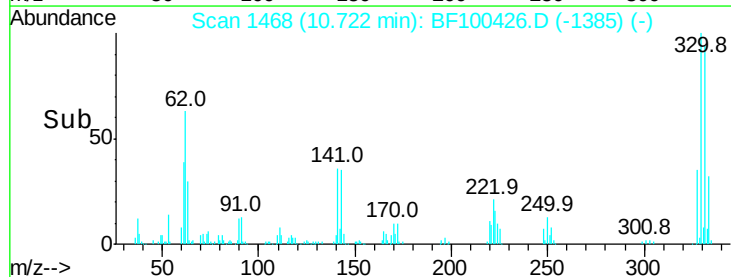
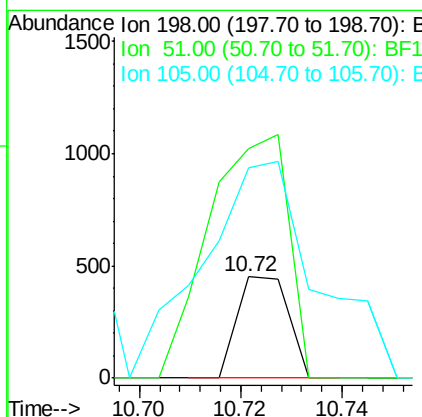
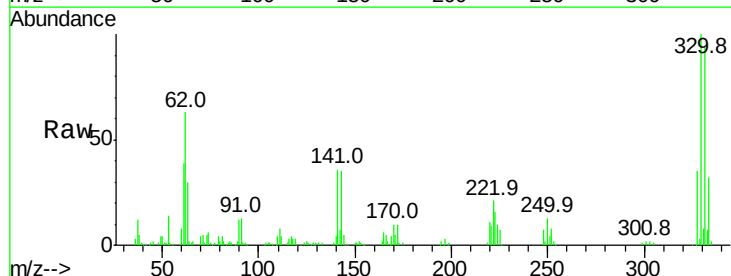
Instrument :  
 BNA\_F  
 ClientSampleId :

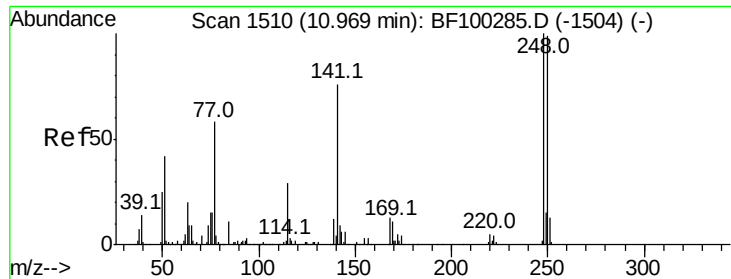
Tot Ion:188 Resp: 409352  
 Ion Ratio Lower Upper  
 188 100  
 94 10.5 8.5 12.7  
 80 11.0 9.2 13.8



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.695 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. 0.19 min  
 Lab File: BF100426.D  
 Acq: 11 Nov 2017 7:30

Tgt Ion:198 Resp: 314  
 Ion Ratio Lower Upper  
 198 100  
 51 226.8 37.7 77.7#  
 105 208.4 36.3 76.3#

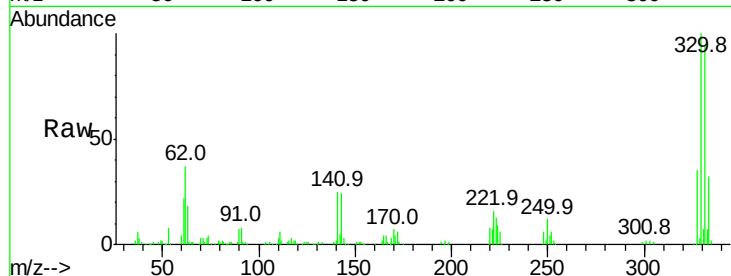




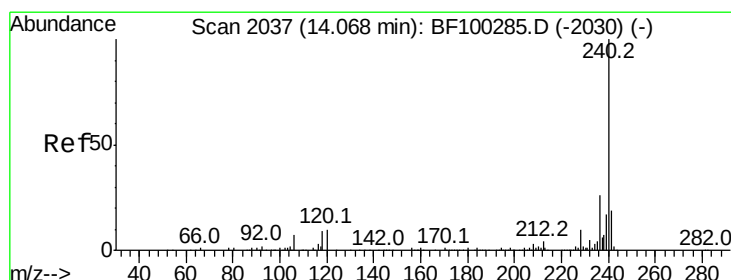
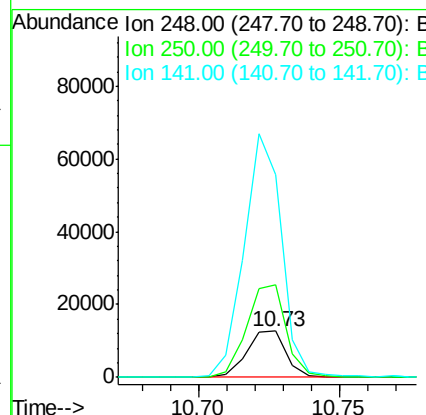
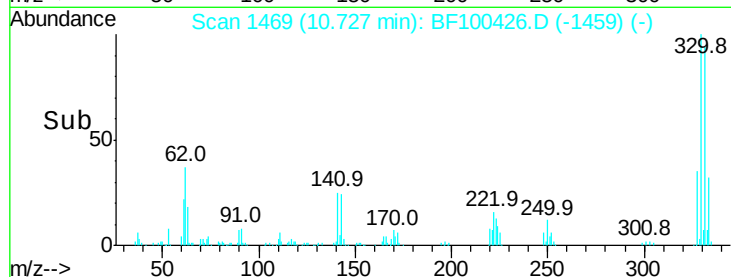
#66  
4-Bromophenyl-phenylether  
Concen: 2.796 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. -0.24 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 12271  
Ion Ratio Lower Upper  
248 100  
250 201.3 76.9 115.3#  
141 439.3 74.4 111.6#

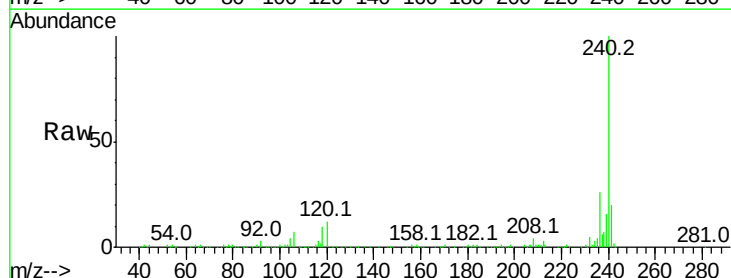


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

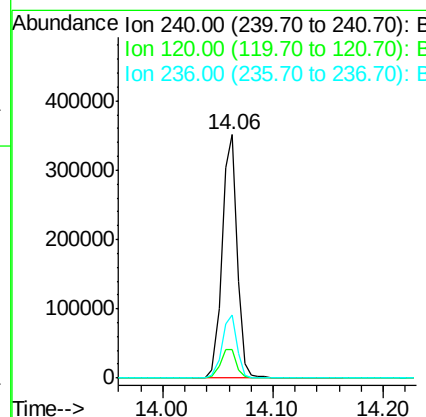
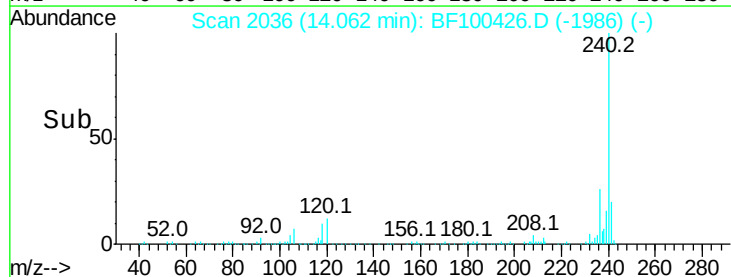


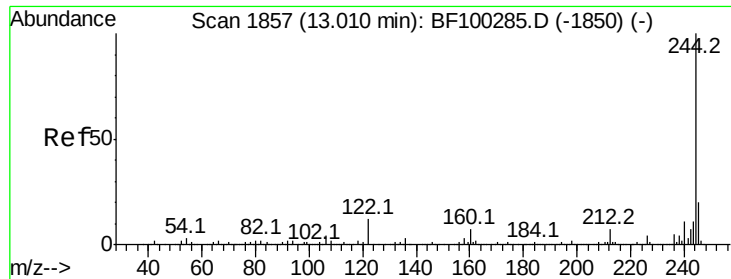
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. -0.01 min  
Lab File: BF100426.D  
Acq: 11 Nov 2017 7:30

Tgt Ion:240 Resp: 332895  
Ion Ratio Lower Upper  
240 100  
120 11.6 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: 77.307 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BF100426.D

Acq: 11 Nov 2017 7:30

Instrument :

BNA\_F

ClientSampleId :

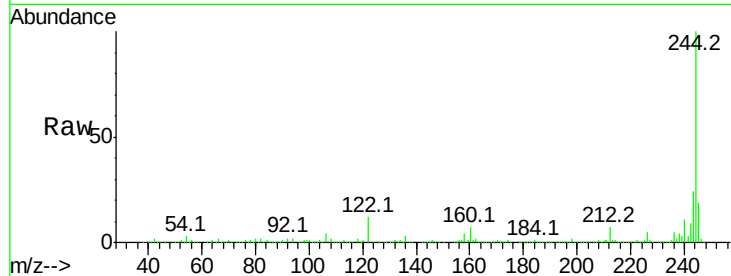
Tot Ion:244 Resp: 1120040

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

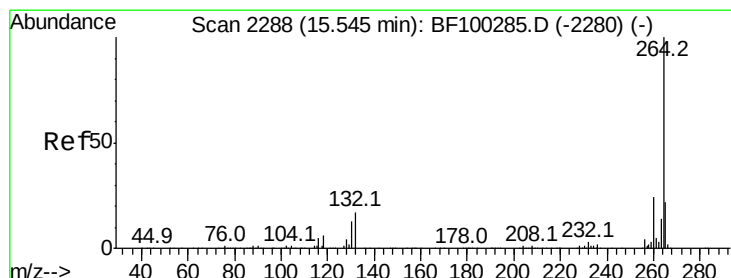
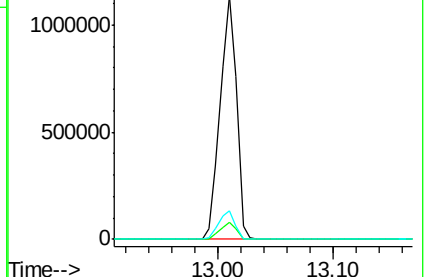
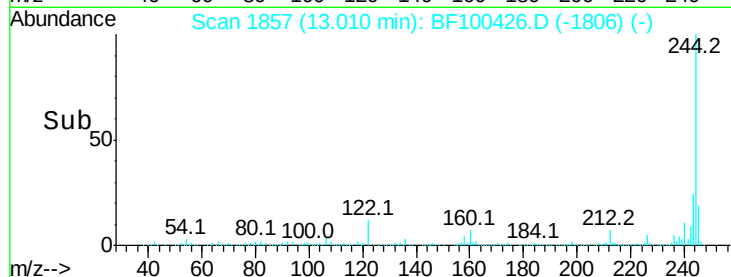
122 11.8 11.0 16.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. -0.00 min

Lab File: BF100426.D

Acq: 11 Nov 2017 7:30

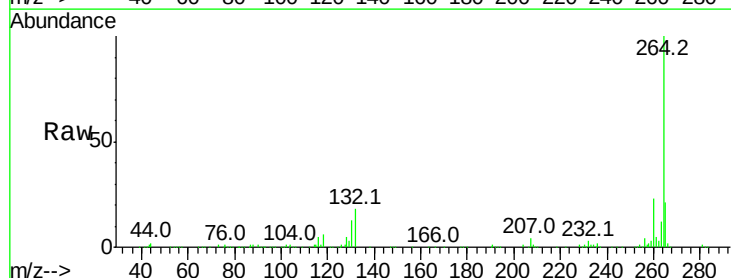
Tgt Ion:264 Resp: 258748

Ion Ratio Lower Upper

264 100

260 22.9 19.2 28.8

265 21.2 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

