

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\  
 Data File : BF098863.D  
 Acq On : 27 Sep 2017 15:14  
 Operator : SJ/JU  
 Sample : I5434-15  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 28 01:49:20 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Sep 23 13:50:58 2017  
 Response via : Initial Calibration

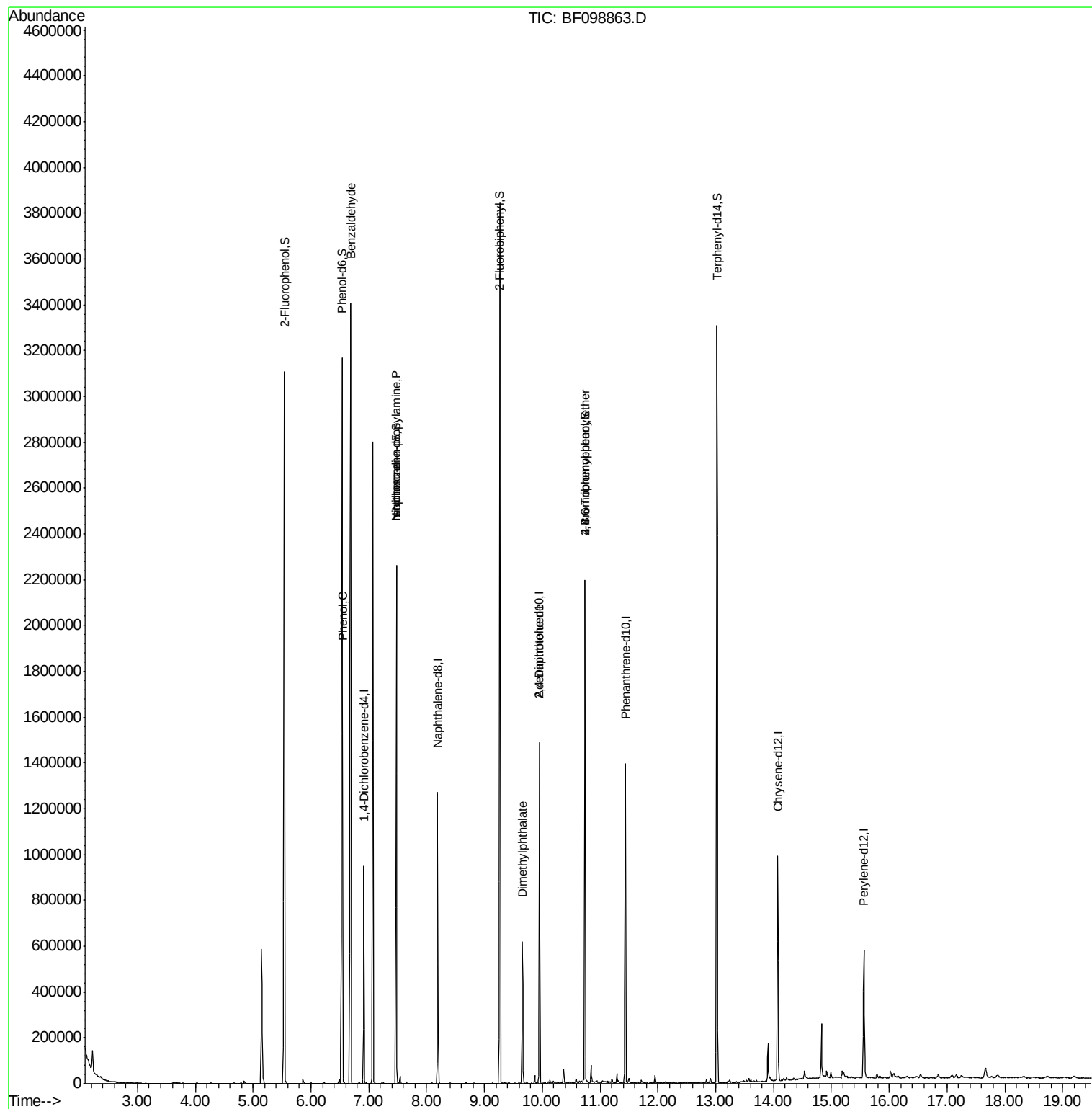
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.92  | 152  | 139054   | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.19  | 136  | 576064   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.95  | 164  | 265212   | 20.00  | ng    | -0.01     |
| 63) Phenanthrene-d10           | 11.44 | 188  | 462965   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 14.07 | 240  | 290746   | 20.00  | ng    | -0.01     |
| 86) Perylene-d12               | 15.56 | 264  | 254693   | 20.00  | ng    | -0.01     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.54  | 112  | 1013625  | 116.04 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.54  | 99   | 1261926  | 117.11 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 757918   | 84.37  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.74 | 330  | 242856   | 111.91 | ng    | -0.01     |
| 44) 2-Fluorobiphenyl           | 9.27  | 172  | 1231204  | 77.50  | ng    | -0.01     |
| 78) Terphenyl-d14              | 13.02 | 244  | 1100040  | 86.04  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.69  | 77   | 21415    | 3.43   | ng    | Qvalue 82 |
| 10) Phenol                     | 6.55  | 94   | 39263    | 3.26   | ng    | 93        |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70   | 98950    | 14.38  | ng    | # 77      |
| 25) Isophorone                 | 7.47  | 82   | 757908   | 40.81  | ng    | # 64      |
| 49) Dimethylphthalate          | 9.66  | 163  | 228964   | 11.44  | ng    | 99        |
| 56) 2,4-Dinitrotoluene         | 9.95  | 165  | 33378    | 5.90   | ng    | # 23      |
| 66) 4-Bromophenyl-phenylether  | 10.74 | 248  | 16622    | 3.67   | ng    | # 1       |

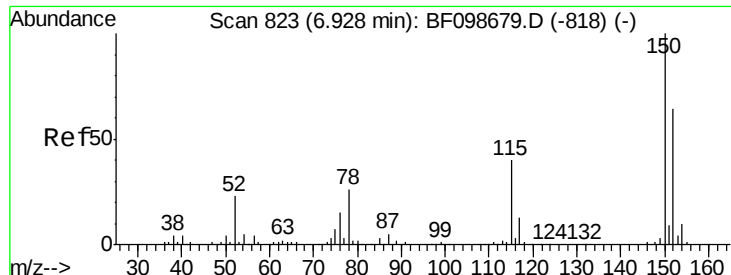
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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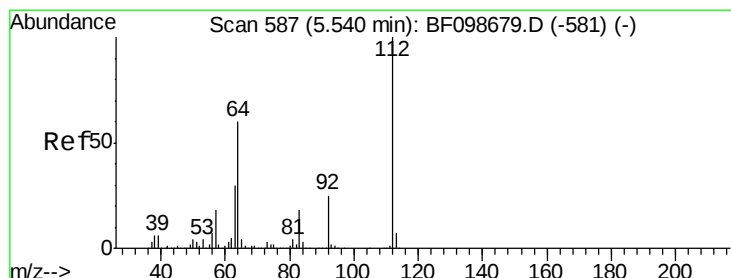
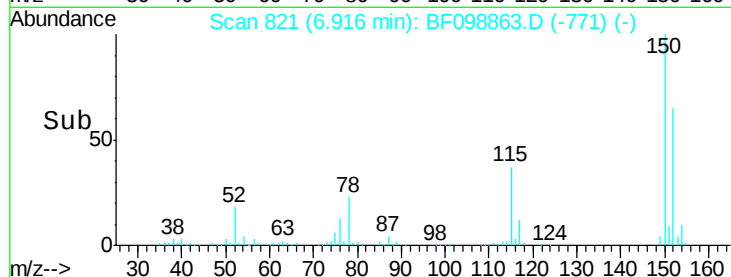
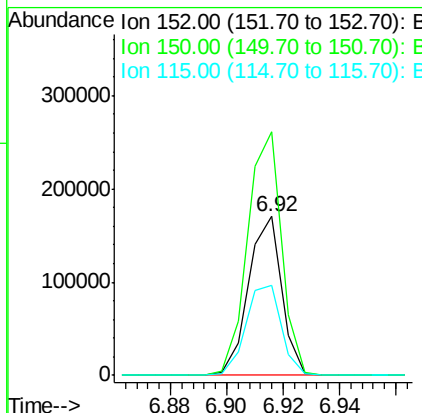
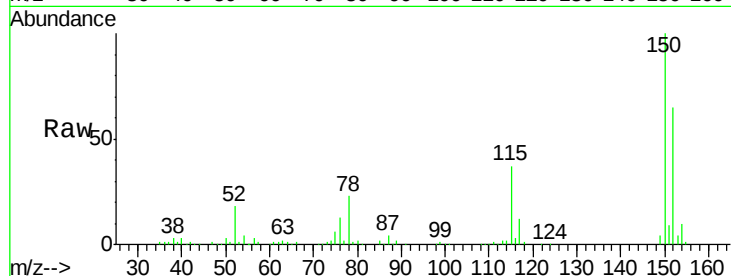


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.92 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Instrument :  
BNA\_F  
ClientSampleId :

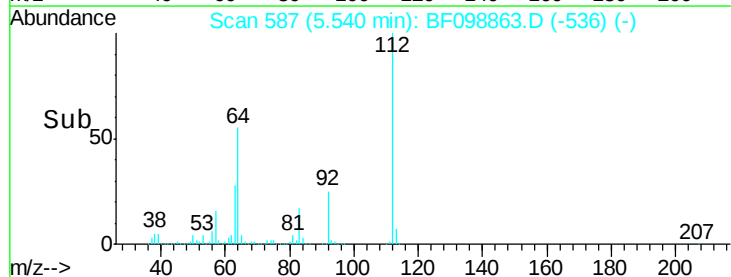
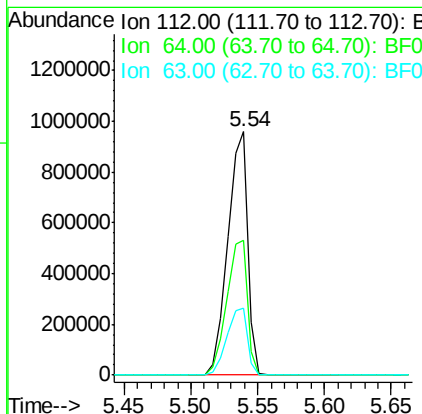
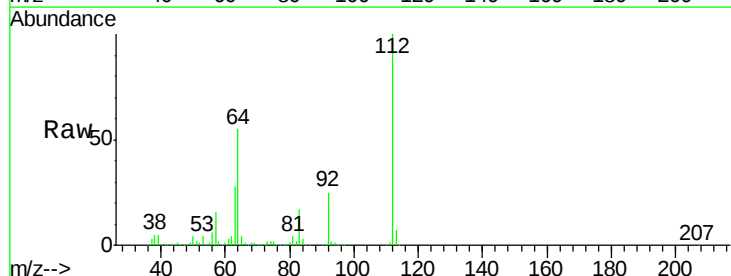
Tot Ion:152 Resp: 139054  
Ion Ratio Lower Upper  
152 100  
150 153.4 124.6 186.8  
115 57.0 50.1 75.1

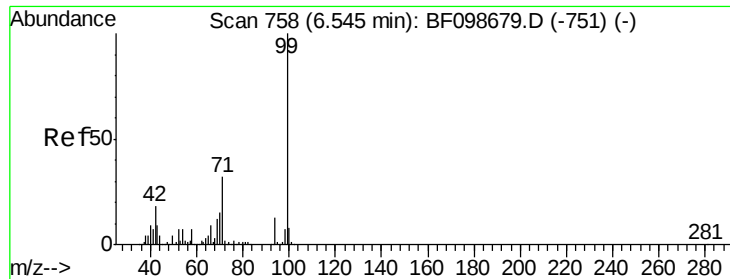


#5

2-Fluorophenol  
Concen: 116.04 ng  
RT: 5.54 min Scan# 587  
Delta R.T. -0.00 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Tgt Ion:112 Resp: 1013625  
Ion Ratio Lower Upper  
112 100  
64 55.2 47.9 71.9  
63 27.5 23.7 35.5





#7

Phenol-d6

Concen: 117.11 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

Instrument :

BNA\_F

ClientSampleId :

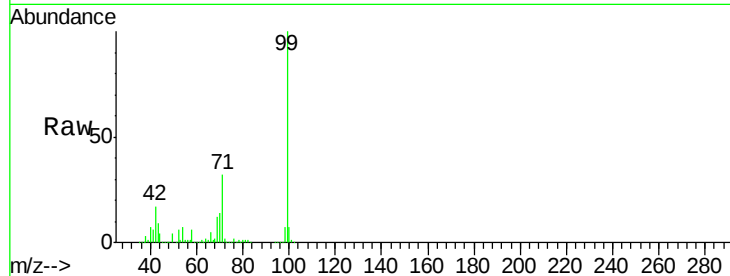
Tot Ion: 99 Resp: 1261926

Ion Ratio Lower Upper

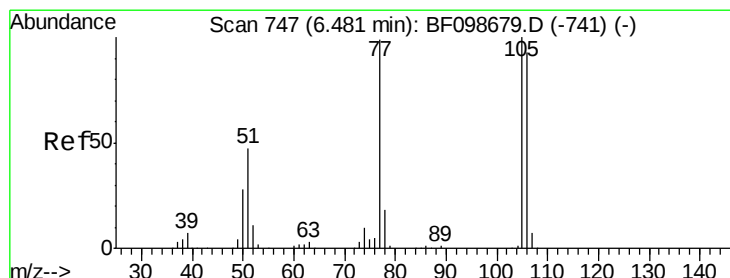
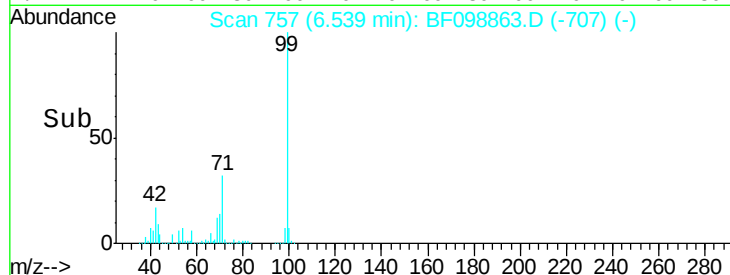
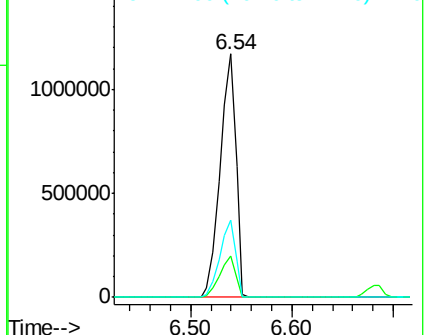
99 100

42 16.9 14.5 21.7

71 31.8 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



#9

Benzaldehyde

Concen: 3.43 ng

RT: 6.69 min Scan# 782

Delta R.T. 0.21 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

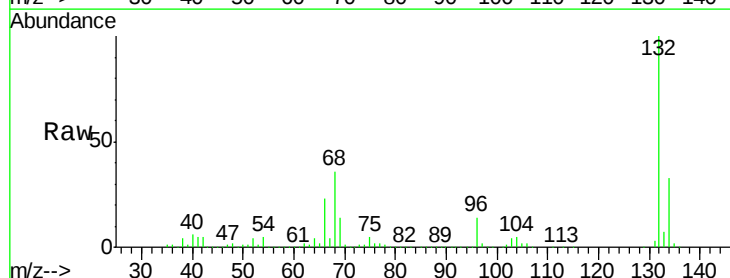
Tgt Ion: 77 Resp: 21415

Ion Ratio Lower Upper

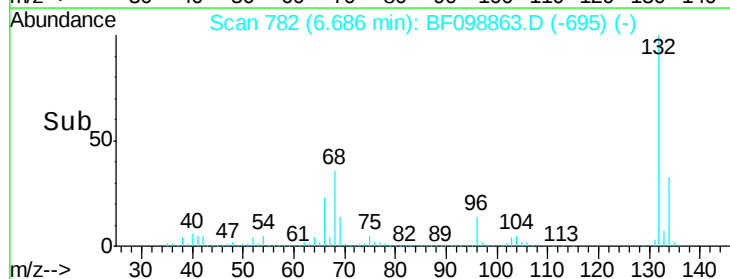
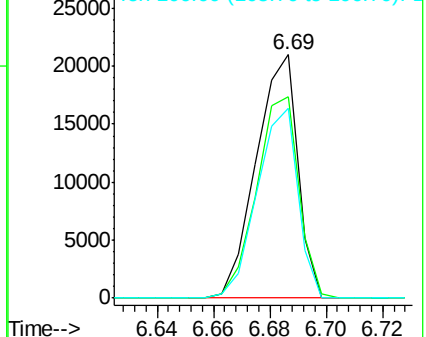
77 100

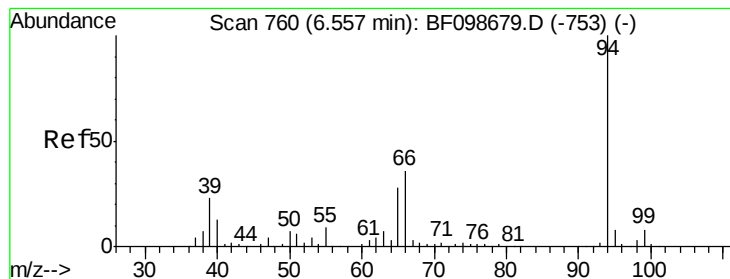
105 82.9 81.1 121.1

106 78.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): BF0  
Ion 106.00 (105.70 to 106.70): BF0





#10

Phenol

Concen: 3.26 ng

RT: 6.55 min Scan# 759

Delta R.T. -0.01 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

Instrument :

BNA\_F

ClientSampleId :

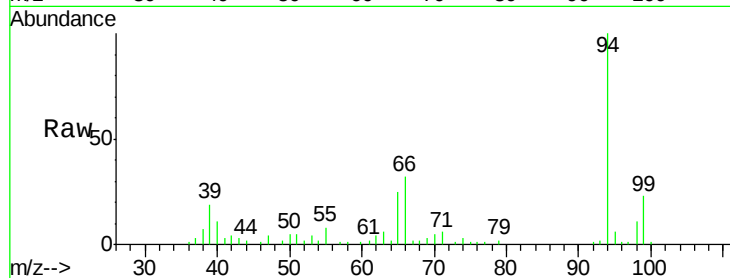
Tot Ion: 94 Resp: 39263

Ion Ratio Lower Upper

94 100

65 24.6 7.9 47.9

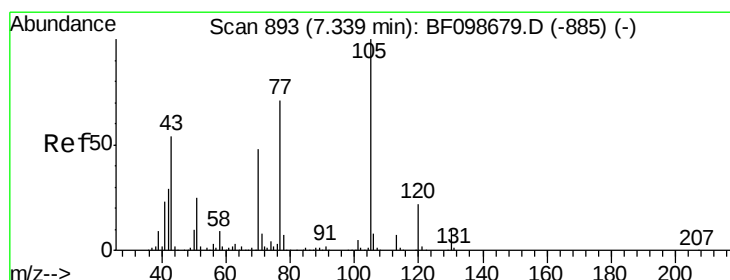
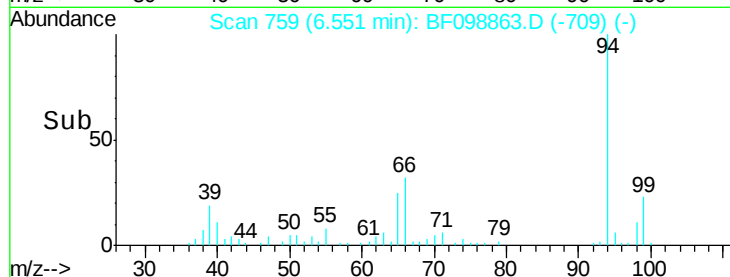
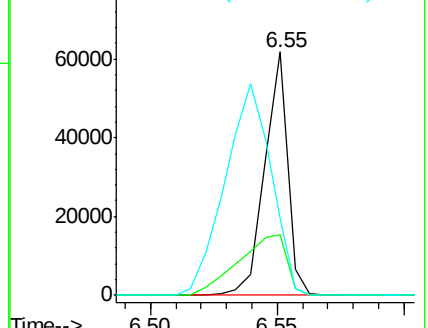
66 31.9 16.2 56.2



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: 14.38 ng

RT: 7.47 min Scan# 916

Delta R.T. 0.14 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

Tgt Ion: 70 Resp: 98950

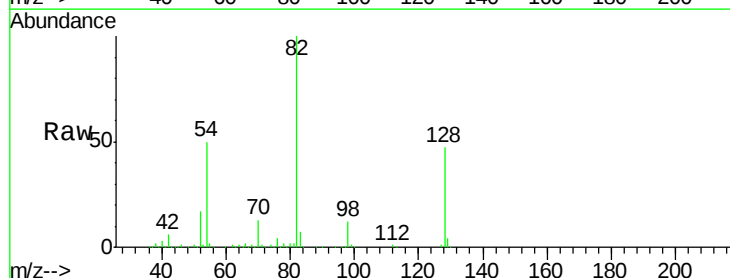
Ion Ratio Lower Upper

70 100

42 46.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

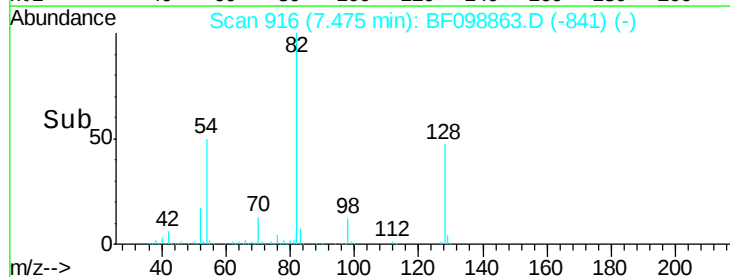
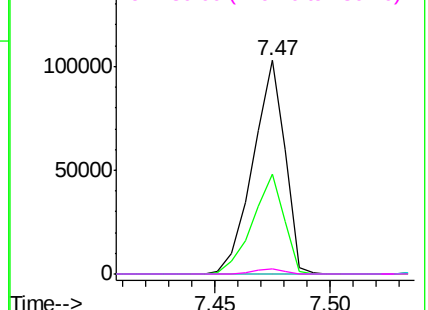


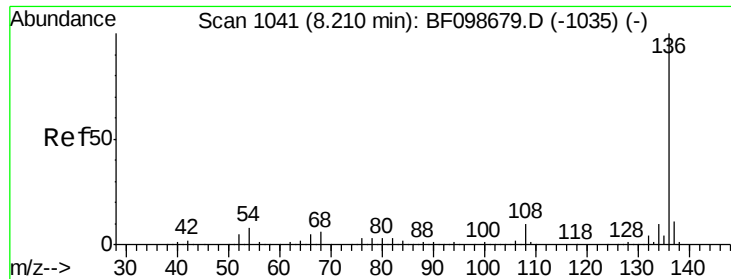
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

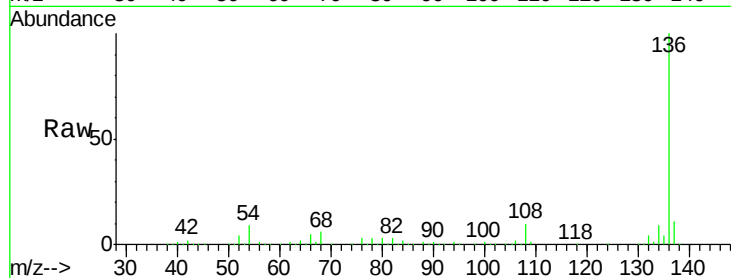




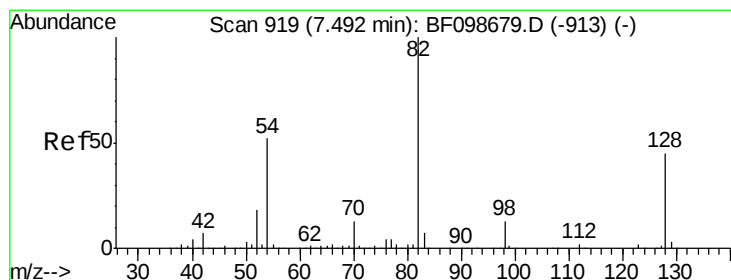
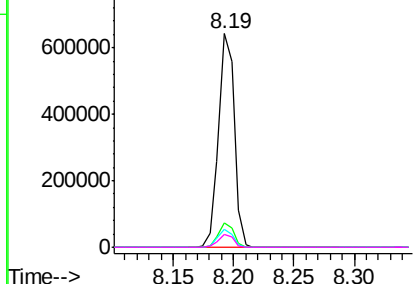
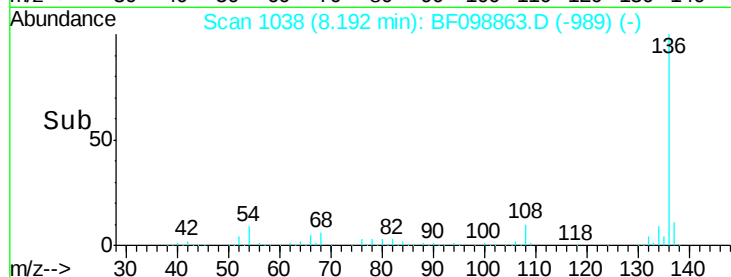
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.19 min Scan# 1038  
Delta R.T. -0.01 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 576064      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.2  | 8.9 13.3    |
| 54          | 8.5   | 6.6 9.8     |
| 68          | 6.3   | 5.0 7.4     |

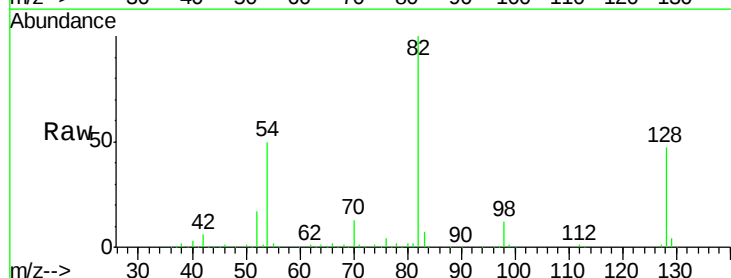


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

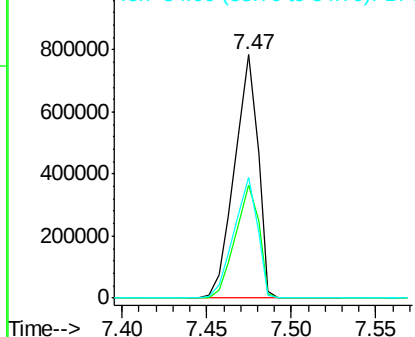
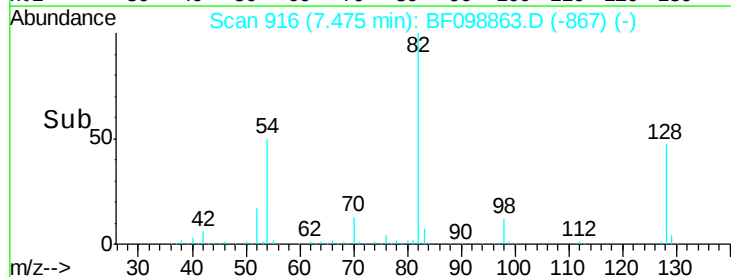


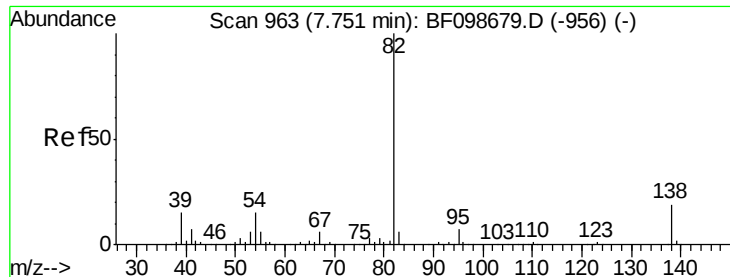
#23  
Nitrobenzene-d5  
Concen: 84.37 ng  
RT: 7.47 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 757918      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 46.7  | 36.1 54.1   |
| 54          | 49.9  | 41.4 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 40.81 ng

RT: 7.47 min Scan# 916

Delta R.T. -0.27 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

Instrument :

BNA\_F

ClientSampleId :

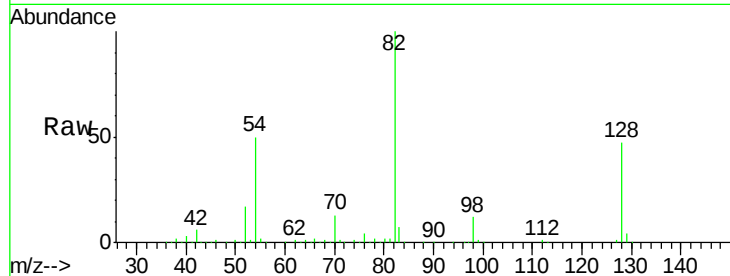
Tot Ion: 82 Resp: 757908

Ion Ratio Lower Upper

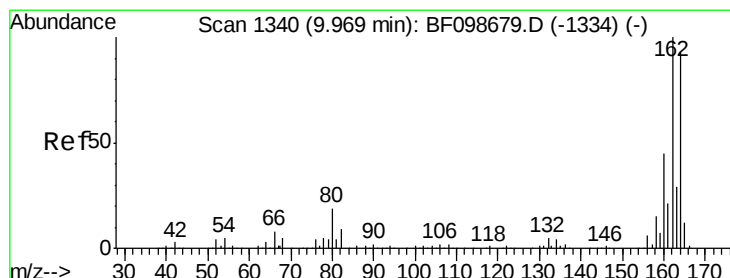
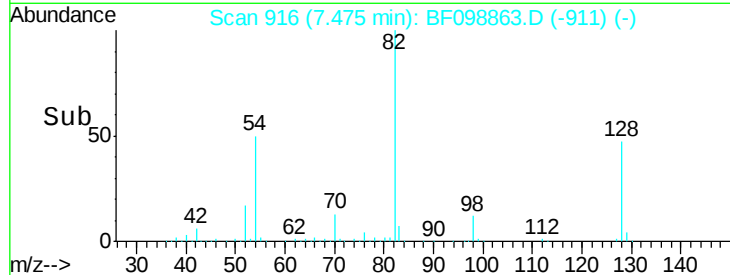
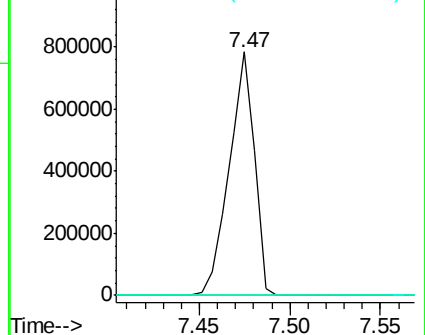
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

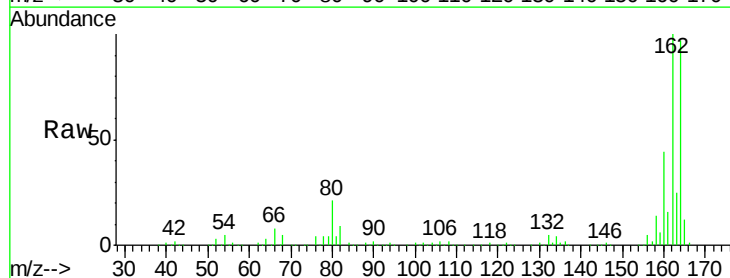
Tgt Ion: 164 Resp: 265212

Ion Ratio Lower Upper

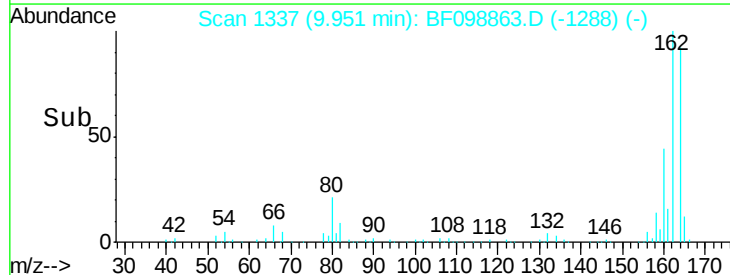
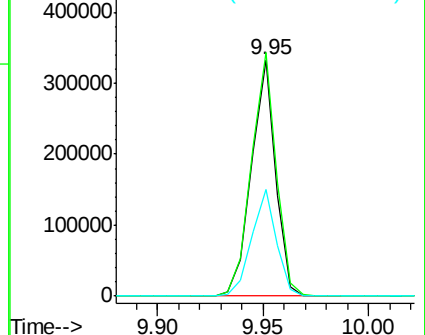
164 100

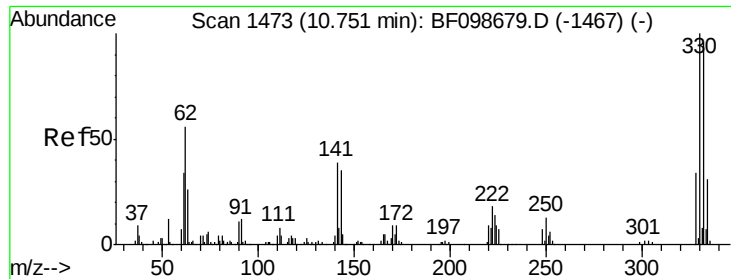
162 103.1 86.1 129.1

160 45.4 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

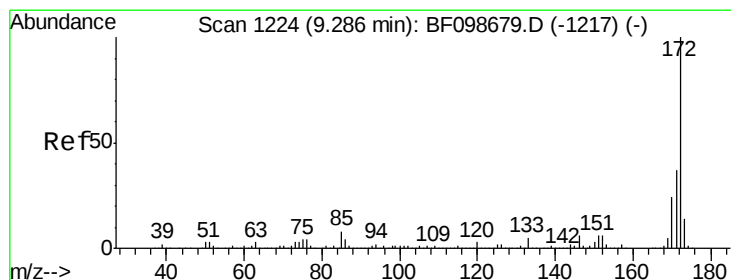
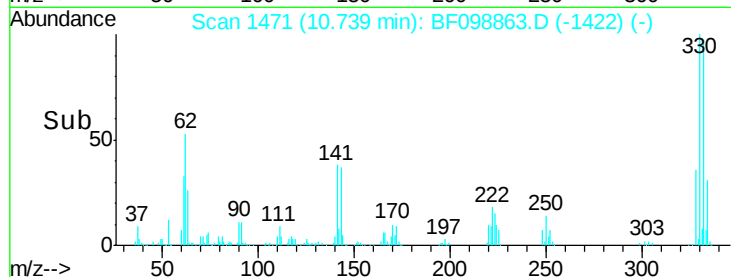
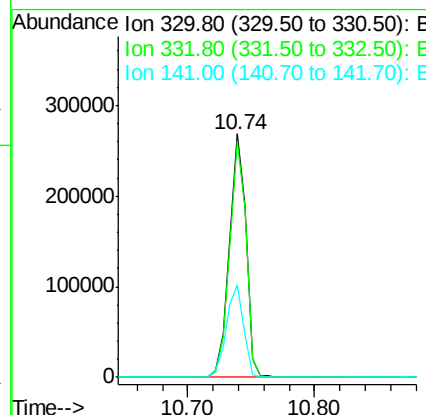
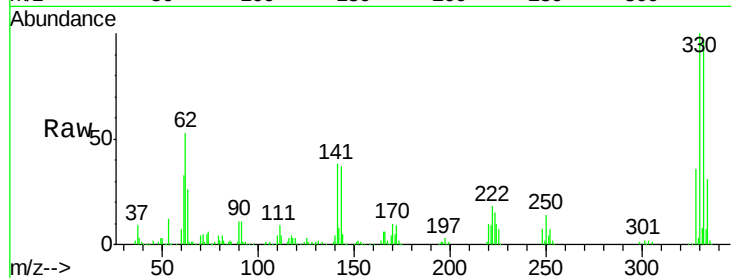




#41  
 2,4,6-Tribromophenol  
 Concen: 111.91 ng  
 RT: 10.74 min Scan# 1471  
 Delta R.T. -0.01 min  
 Lab File: BF098863.D  
 Acq: 27 Sep 2017 15:14

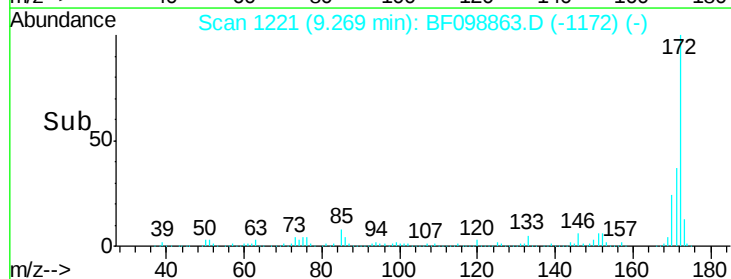
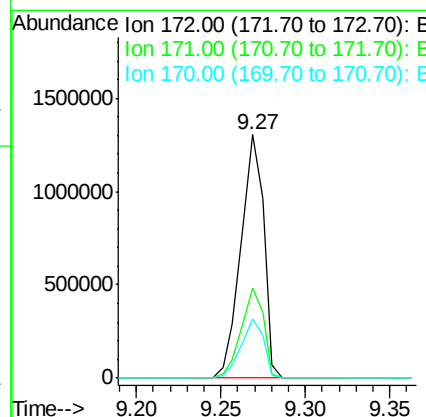
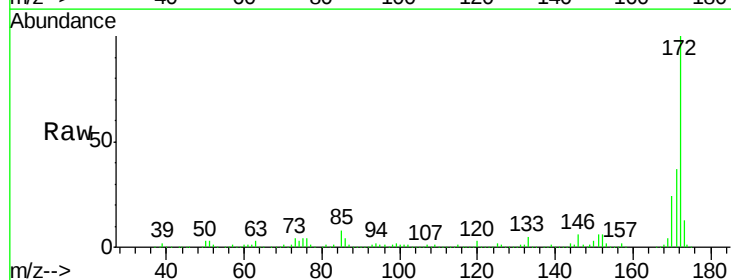
Instrument :  
 BNA\_F  
 ClientSampleId :

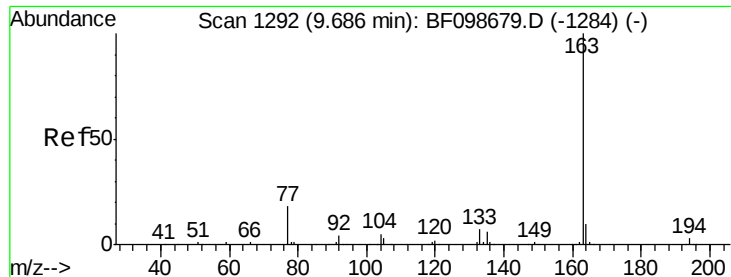
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 77.0  | 115.6 |
| 141     | 40.1  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 77.50 ng  
 RT: 9.27 min Scan# 1221  
 Delta R.T. -0.01 min  
 Lab File: BF098863.D  
 Acq: 27 Sep 2017 15:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 29.7  | 44.5  |
| 170     | 24.2  | 19.6  | 29.4  |

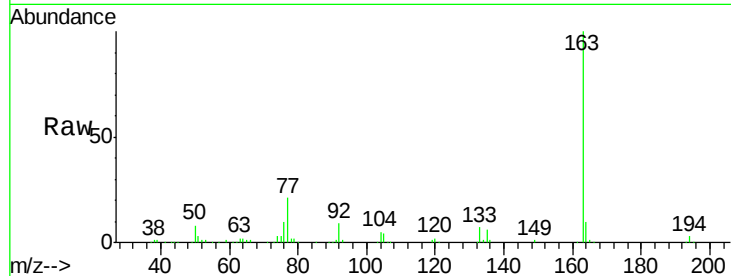




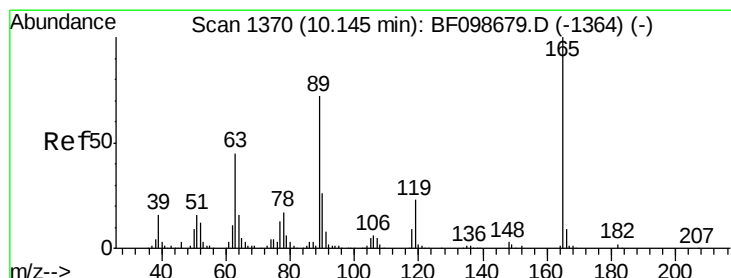
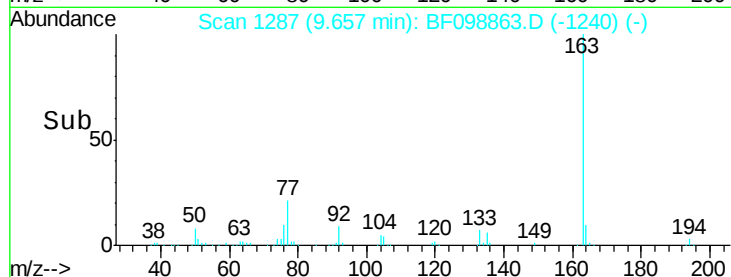
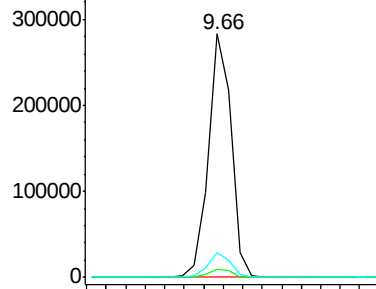
#49  
Dimethylphthalate  
Concen: 11.44 ng  
RT: 9.66 min Scan# 1287  
Delta R.T. -0.02 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 228964  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.7 4.1  
164 10.0 8.2 12.2

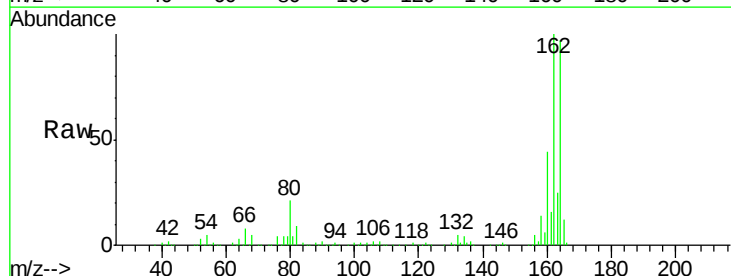


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

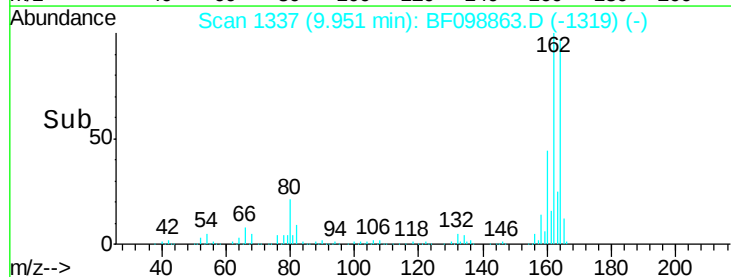
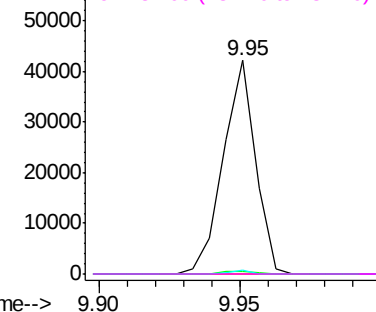


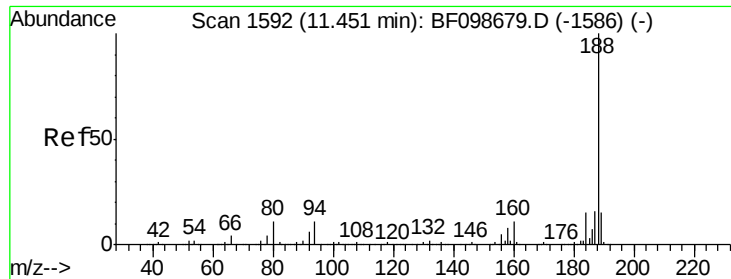
#56  
2,4-Dinitrotoluene  
Concen: 5.90 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.19 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Tgt Ion:165 Resp: 33378  
Ion Ratio Lower Upper  
165 100  
63 1.0 36.4 54.6#  
89 1.7 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

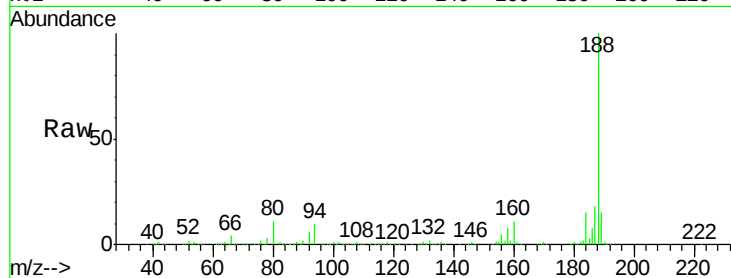




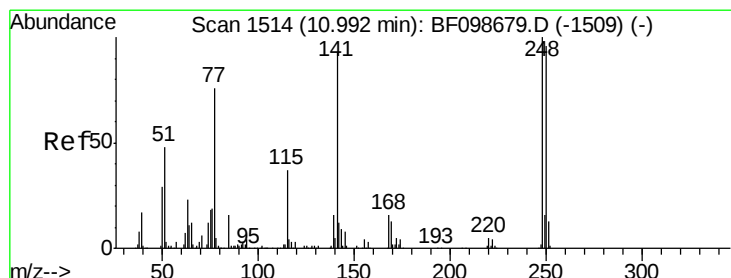
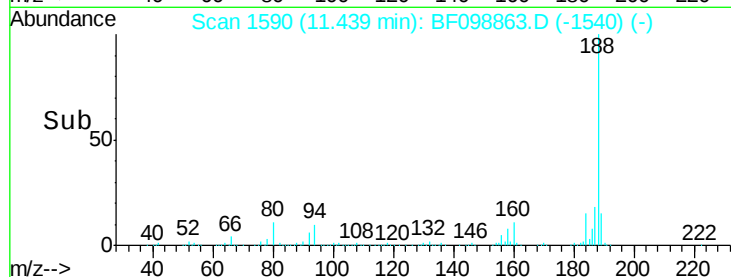
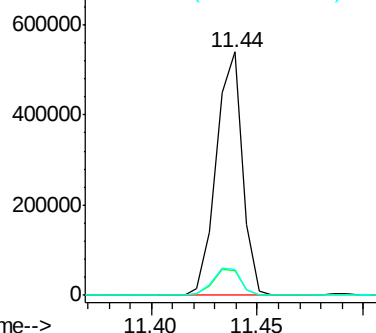
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.44 min Scan# 1590  
Delta R.T. -0.01 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 462965  
Ion Ratio Lower Upper  
188 100  
94 10.3 8.5 12.7  
80 10.9 9.2 13.8

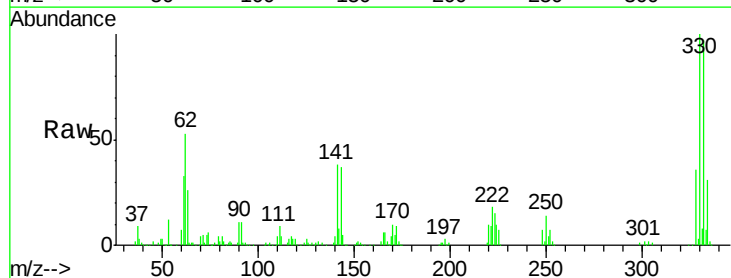


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

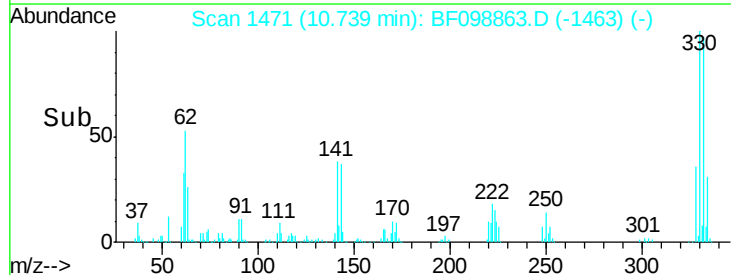
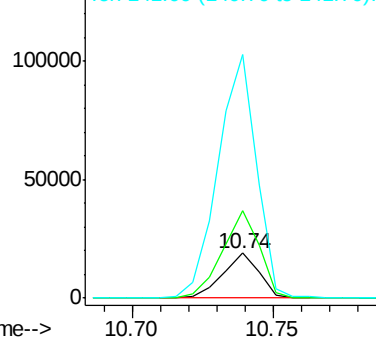


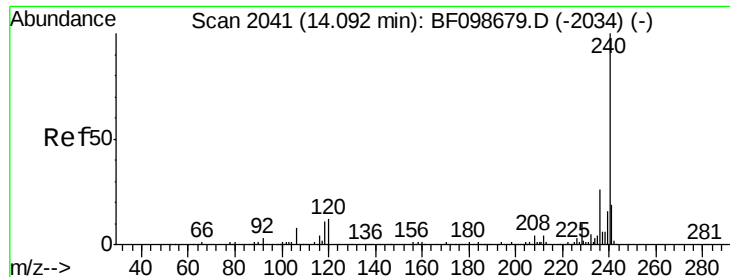
#66  
4-Bromophenyl-phenylether  
Concen: 3.67 ng  
RT: 10.74 min Scan# 1471  
Delta R.T. -0.25 min  
Lab File: BF098863.D  
Acq: 27 Sep 2017 15:14

Tgt Ion:248 Resp: 16622  
Ion Ratio Lower Upper  
248 100  
250 195.4 76.9 115.3#  
141 544.3 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: 20.00 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.01 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

Instrument :

BNA\_F

ClientSampleId :

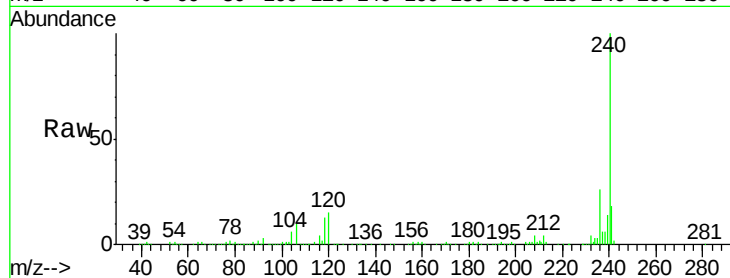
Tot Ion:240 Resp: 290746

Ion Ratio Lower Upper

240 100

120 14.7 9.5 14.3#

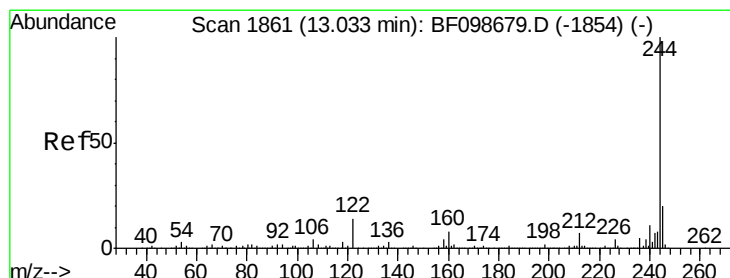
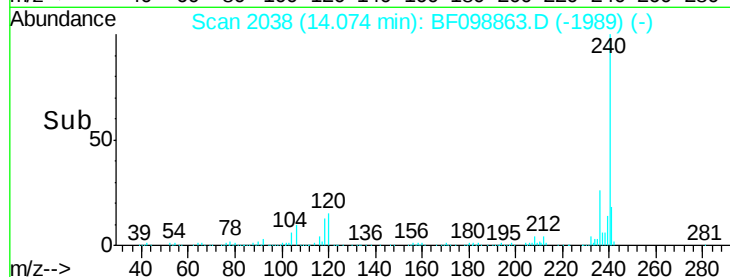
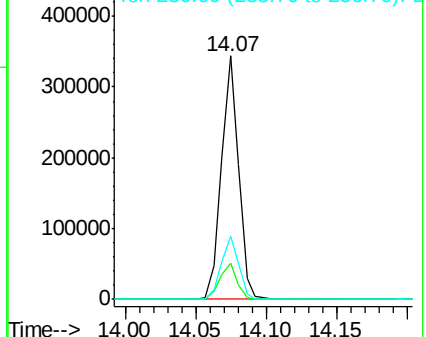
236 25.7 20.7 31.1



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: 86.04 ng

RT: 13.02 min Scan# 1859

Delta R.T. -0.01 min

Lab File: BF098863.D

Acq: 27 Sep 2017 15:14

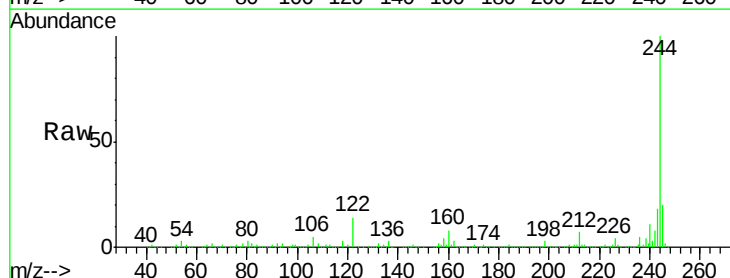
Tgt Ion:244 Resp: 1100040

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

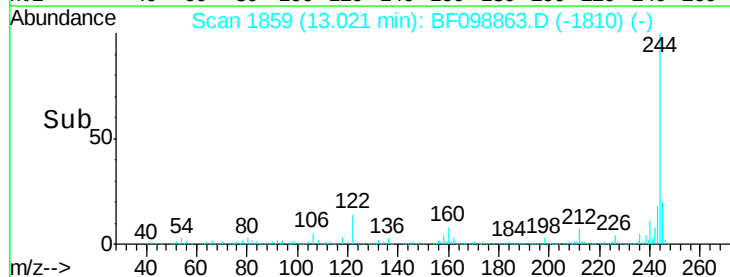
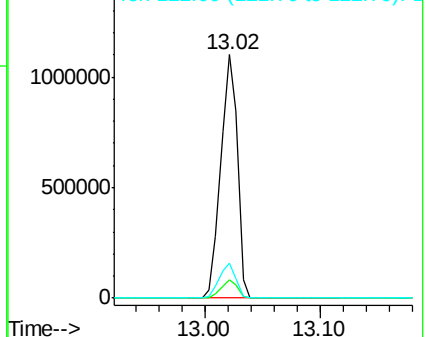
122 14.2 11.0 16.4

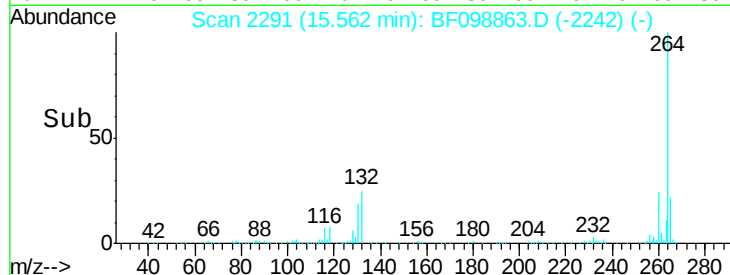
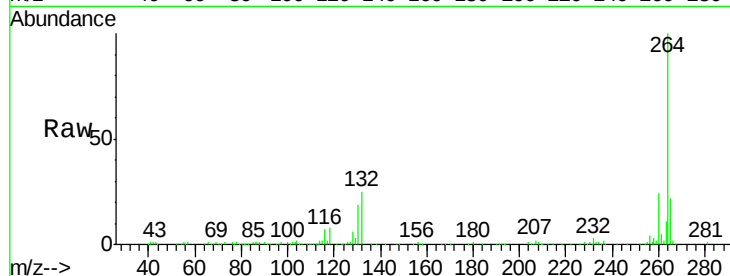
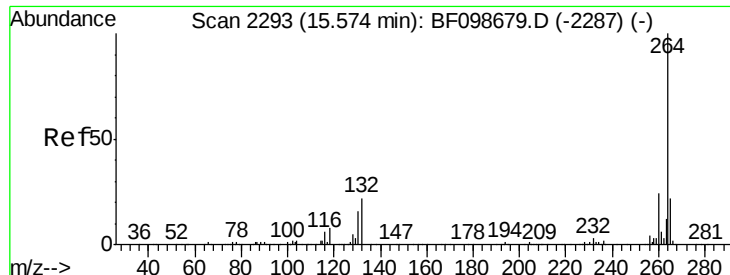


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.56 min Scan# 2291  
 Delta R.T. -0.01 min  
 Lab File: BF098863.D  
 Acq: 27 Sep 2017 15:14

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |

