

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF031918\  
 Data File : BF103747.D  
 Acq On : 19 Mar 2018 10:49  
 Operator : JU/SJ  
 Sample : J1929-12  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 19 11:38:40 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 19 10:47:21 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 174685   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 721683   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 341162   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 620761   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.16 | 240  | 545752   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.70 | 264  | 477764   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.61  | 112 | 1359209 | 118.35 | ng | 0.02 |
| 7) Phenol-d6             | 6.60  | 99  | 1512738 | 107.66 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.53  | 82  | 1148520 | 110.98 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.81 | 330 | 458237  | 156.22 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.33  | 172 | 1921713 | 89.85  | ng | 0.00 |
| 78) Terphenyl-d14        | 13.10 | 244 | 1895779 | 80.63  | ng | 0.00 |

## Target Compounds

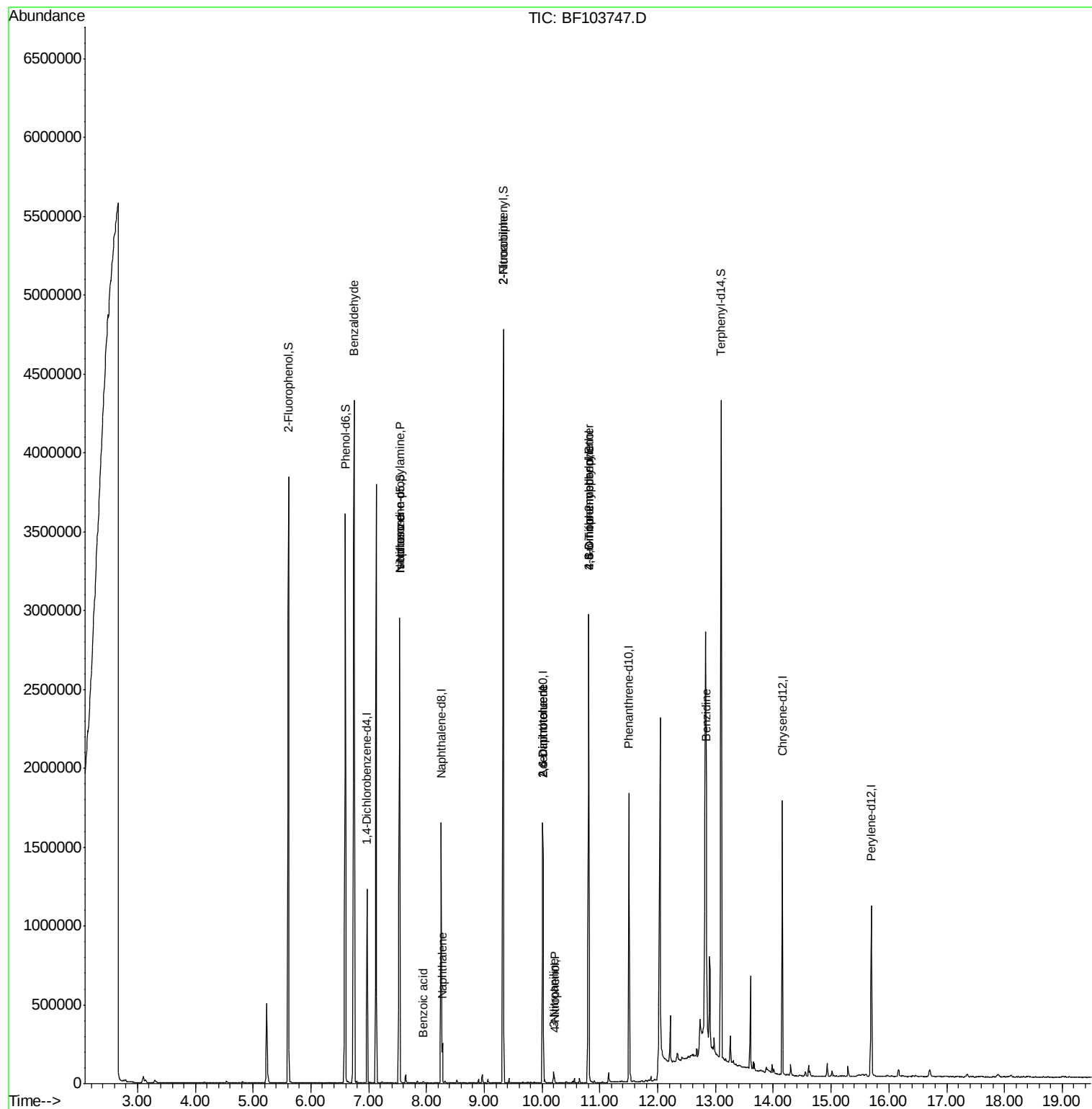
|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Benzaldehyde                | 6.75  | 77  | 30460   | 3.300  | ng | 81     |
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70  | 153748  | 17.074 | ng | # 74   |
| 25) Isophorone                 | 7.53  | 82  | 1148508 | 47.941 | ng | # 64   |
| 31) Naphthalene                | 8.27  | 128 | 112614  | 3.089  | ng | 97     |
| 32) Benzoic acid               | 7.94  | 122 | 2065    | 10.131 | ng | 89     |
| 47) 2-Nitroaniline             | 9.33  | 65  | 3117    | 7.267  | ng | # 1    |
| 50) 2,6-Dinitrotoluene         | 10.01 | 165 | 43097   | 11.833 | ng | # 25   |
| 52) 3-Nitroaniline             | 10.20 | 138 | 234     | 3.850  | ng | # 2    |
| 55) 4-Nitrophenol              | 10.22 | 139 | 3382    | 5.635  | ng | # 9    |
| 56) 2,4-Dinitrotoluene         | 10.01 | 165 | 43097   | 12.095 | ng | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.81 | 198 | 923     | 8.562  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.81 | 248 | 27164   | 4.262  | ng | # 1    |
| 76) Benzidine                  | 12.84 | 184 | 515598  | 22.151 | ng | 99     |

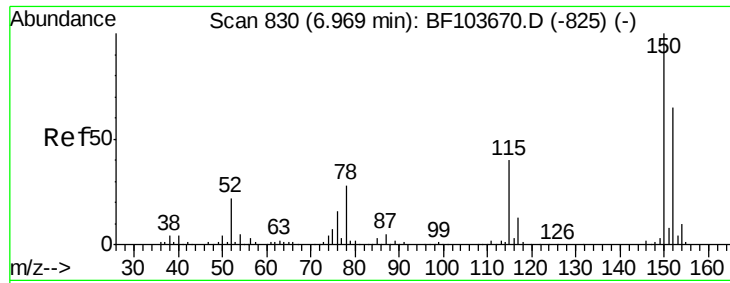
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 5 Sample Multiplier: 1

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BNA\_F  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 19 10:47:21 2018  
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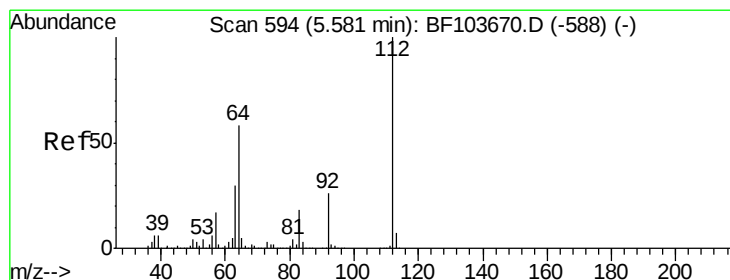
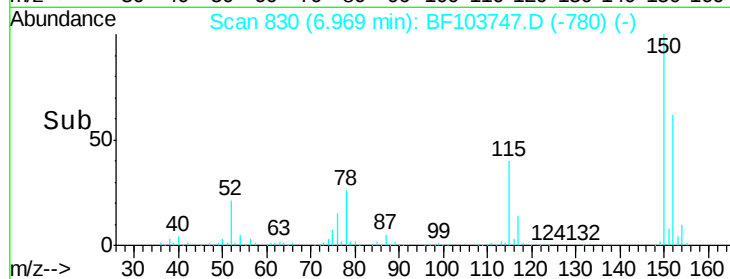
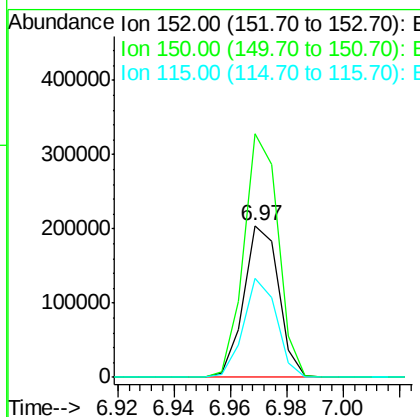
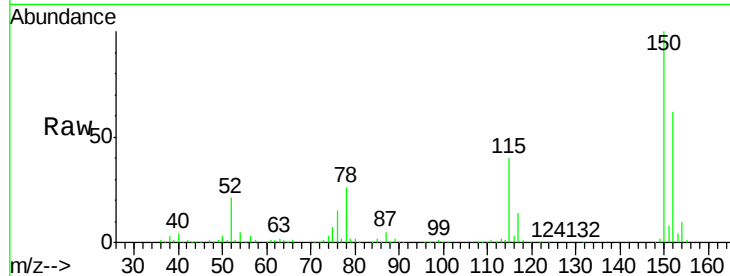




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 830  
 Delta R.T. -0.01 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

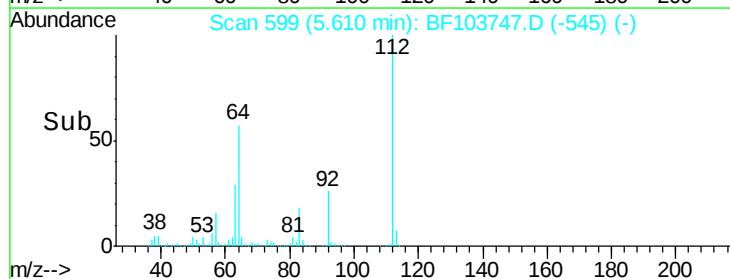
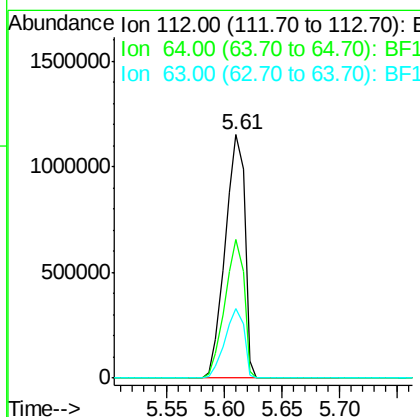
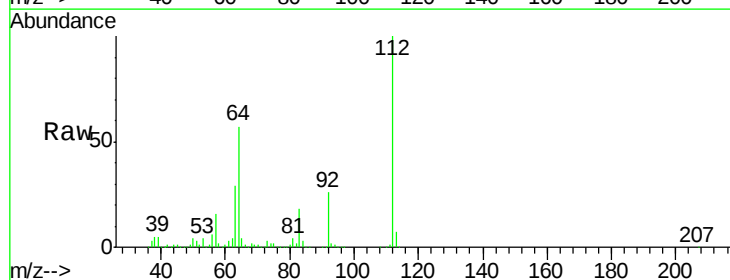
Instrument :  
 BNA\_F  
 ClientSampleId :

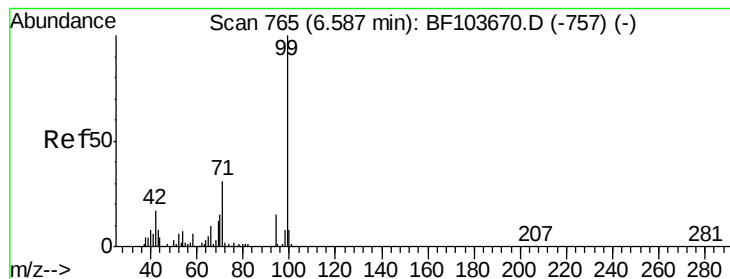
Tot Ion:152 Resp: 174685  
 Ion Ratio Lower Upper  
 152 100  
 150 160.4 124.6 186.8  
 115 64.9 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 118.347 ng  
 RT: 5.61 min Scan# 599  
 Delta R.T. 0.02 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

Tgt Ion:112 Resp: 1359209  
 Ion Ratio Lower Upper  
 112 100  
 64 56.8 47.9 71.9  
 63 28.8 23.7 35.5





#7

Phenol-d6

Concen: 107.661 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.01 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

Instrument :

BNA\_F

ClientSampleId :

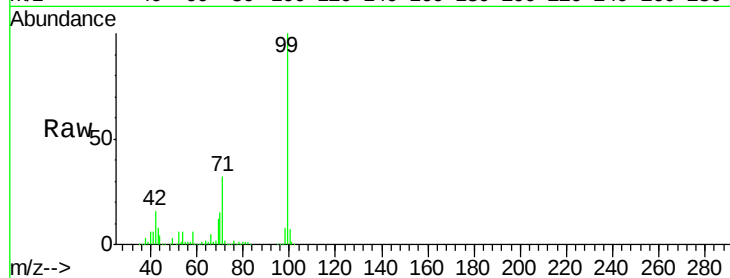
Tot Ion: 99 Resp: 1512738

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

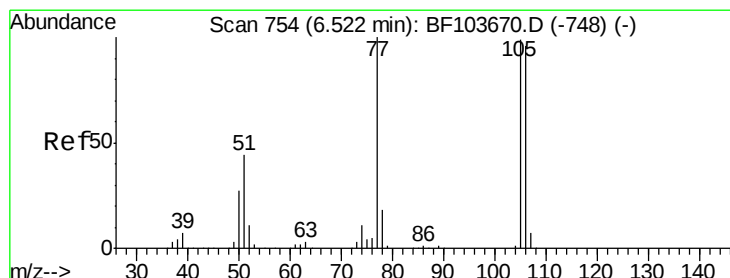
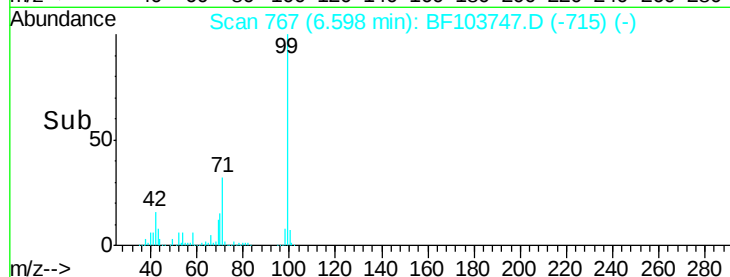
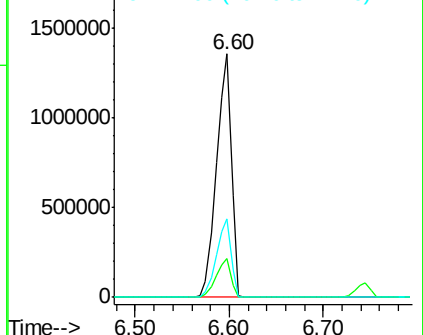
71 32.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 3.300 ng

RT: 6.75 min Scan# 792

Delta R.T. 0.22 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

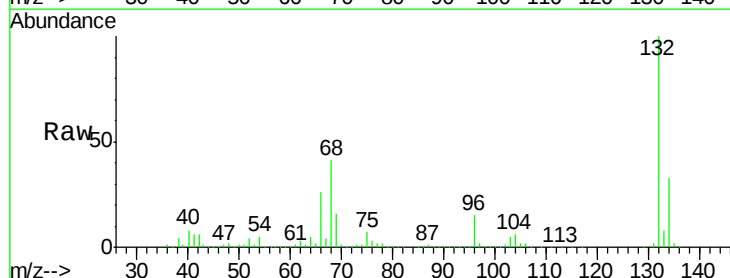
Tgt Ion: 77 Resp: 30460

Ion Ratio Lower Upper

77 100

105 84.2 81.1 121.1

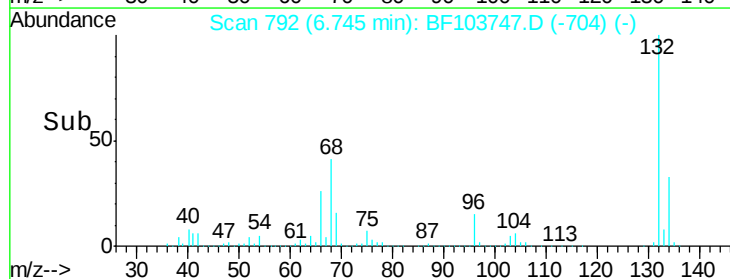
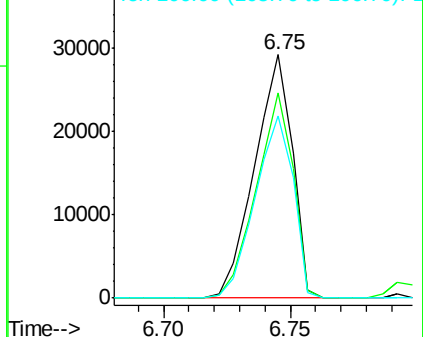
106 74.7 74.5 114.5

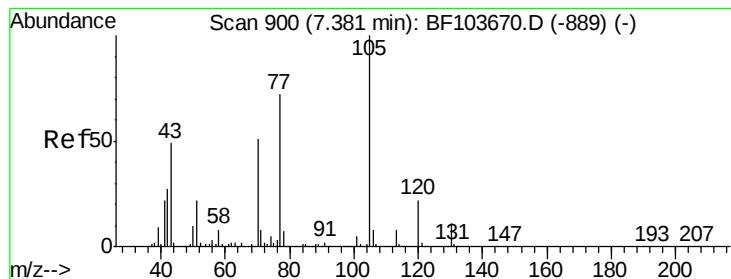


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 17.074 ng

RT: 7.53 min Scan# 926

Delta R.T. 0.15 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 153748

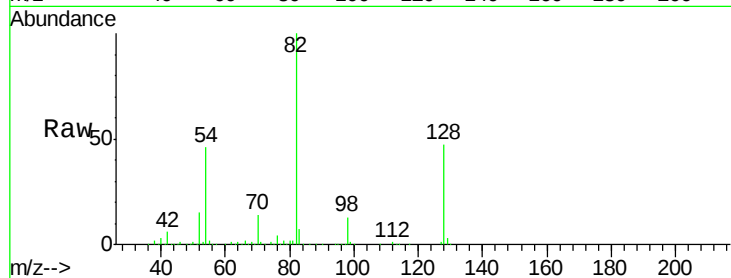
Ion Ratio Lower Upper

70 100

42 43.1 47.5 71.3#

101 0.0 7.4 11.2#

130 2.5 16.6 25.0#

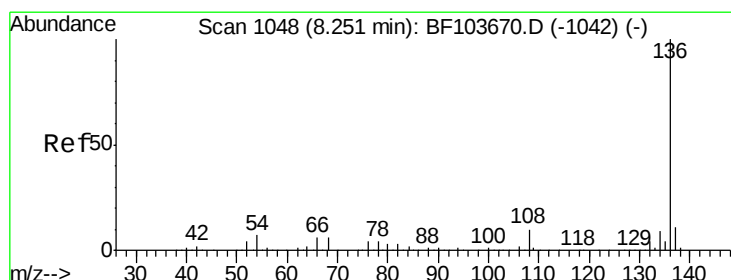
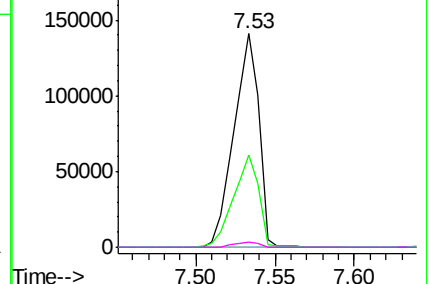
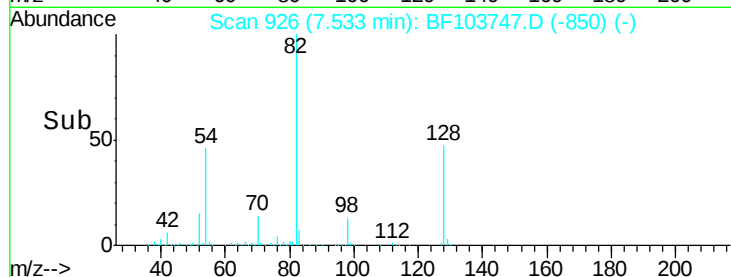


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.25 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

Tgt Ion: 136 Resp: 721683

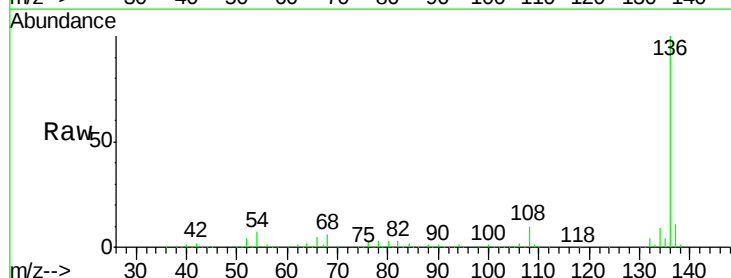
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 7.1 6.6 9.8

68 6.4 5.0 7.4

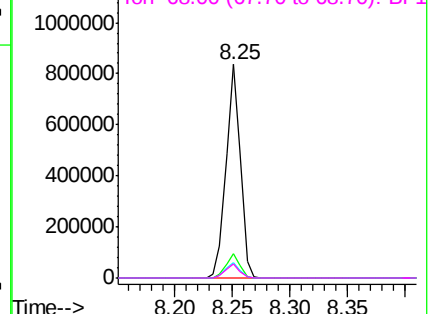
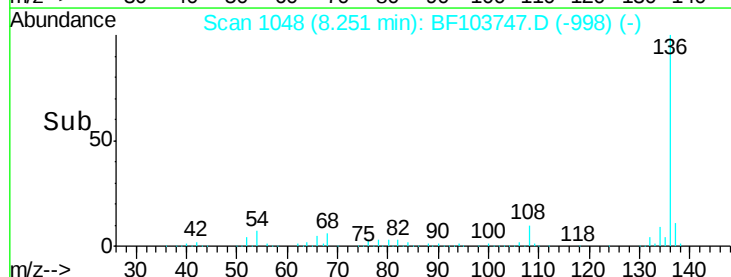


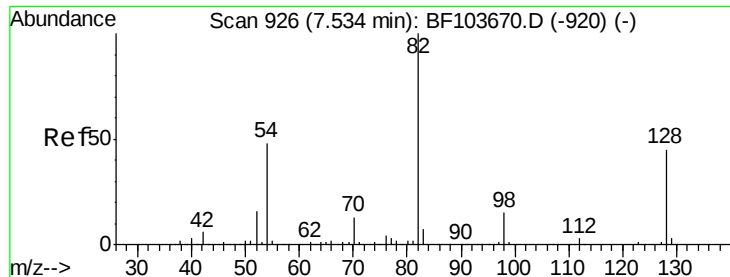
Abundance Ion 136.00 (135.70 to 136.70): BF1

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

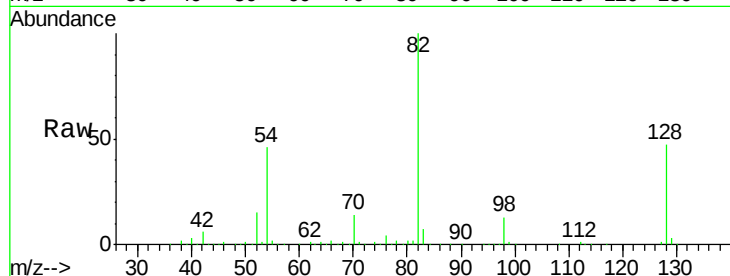




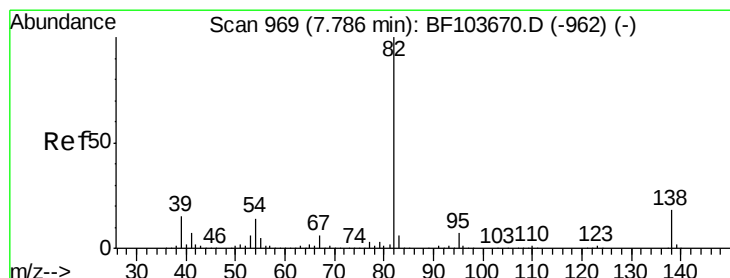
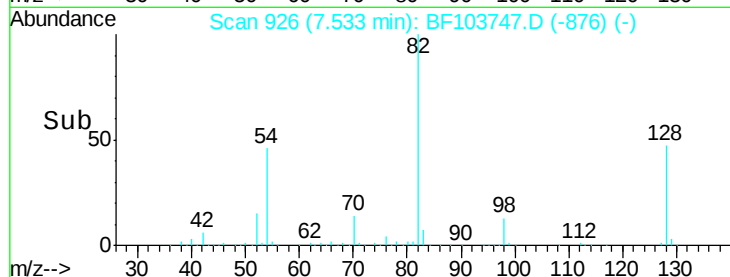
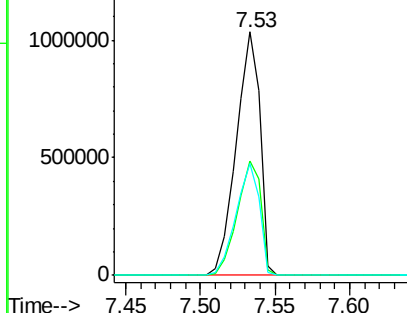
#23  
Nitrobenzene-d5  
Concen: 110.981 ng  
RT: 7.53 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 1148520  
Ion Ratio Lower Upper  
82 100  
128 46.7 36.1 54.1  
54 45.9 41.4 62.2

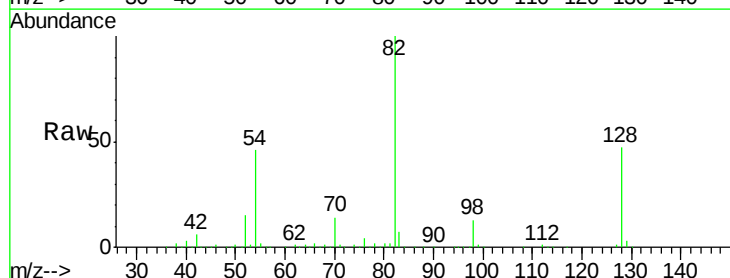


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

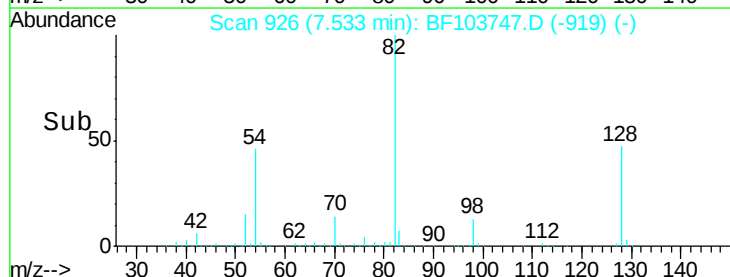
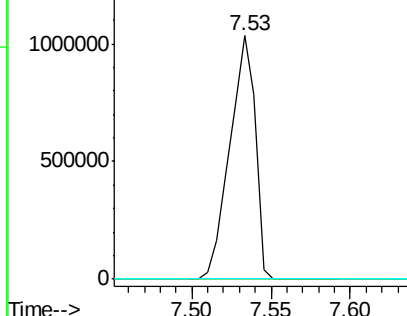


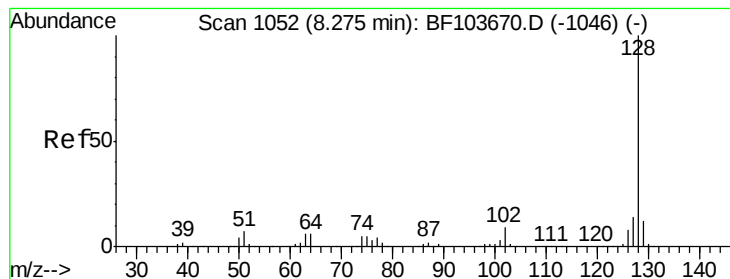
#25  
Isophorone  
Concen: 47.941 ng  
RT: 7.53 min Scan# 926  
Delta R.T. -0.26 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Tgt Ion: 82 Resp: 1148508  
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





#31

Naphthalene

Concen: 3.089 ng

RT: 8.27 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

Instrument :

BNA\_F

ClientSampleId :

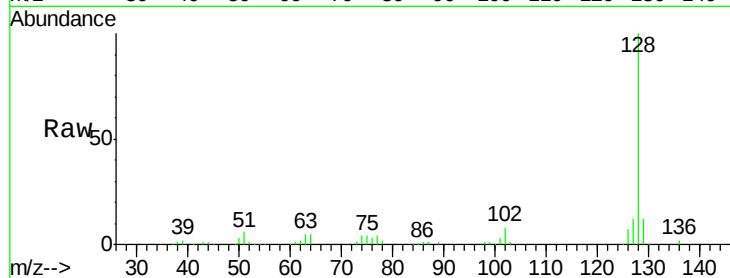
Tot Ion:128 Resp: 112614

Ion Ratio Lower Upper

128 100

129 11.8 8.8 13.2

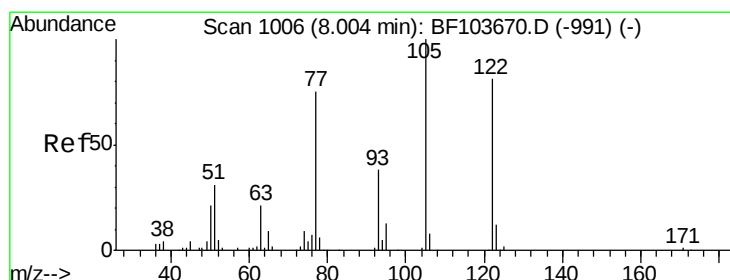
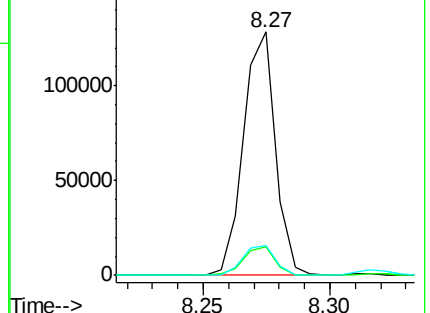
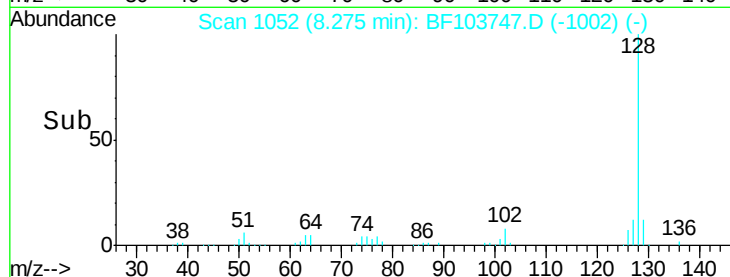
127 12.4 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 10.131 ng

RT: 7.94 min Scan# 995

Delta R.T. -0.08 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

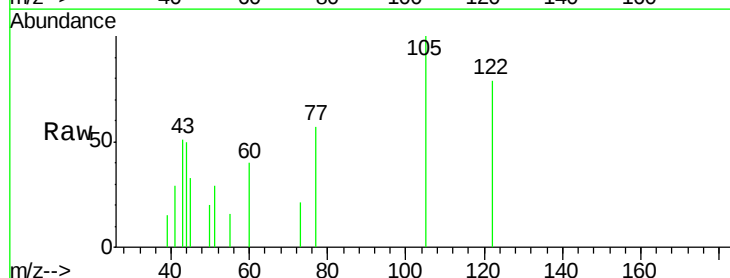
Tgt Ion:122 Resp: 2065

Ion Ratio Lower Upper

122 100

105 125.8 101.1 141.1

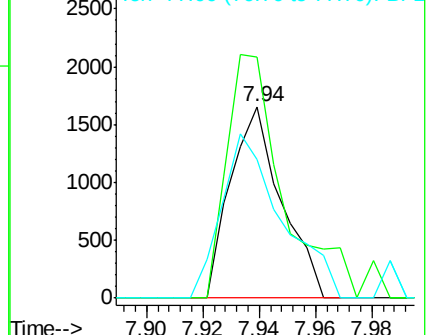
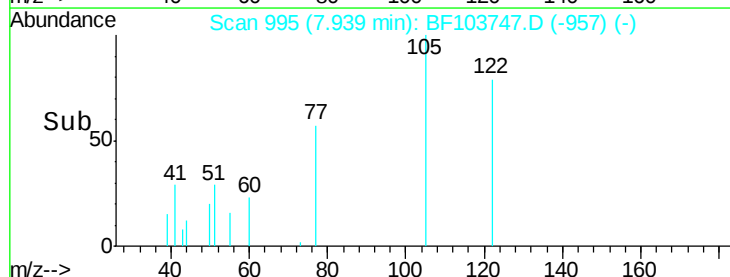
77 72.3 70.7 110.7

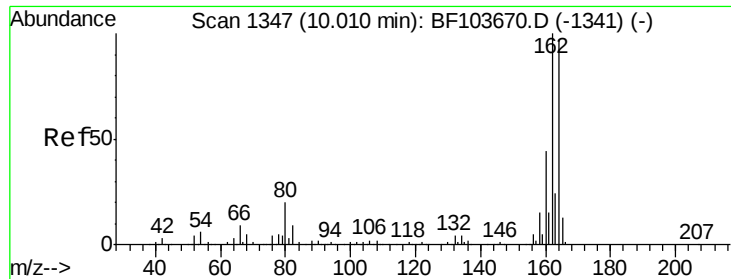


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

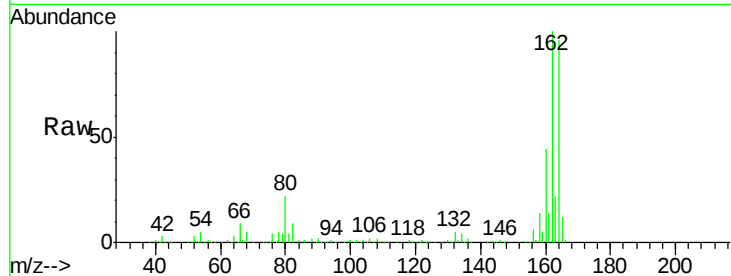




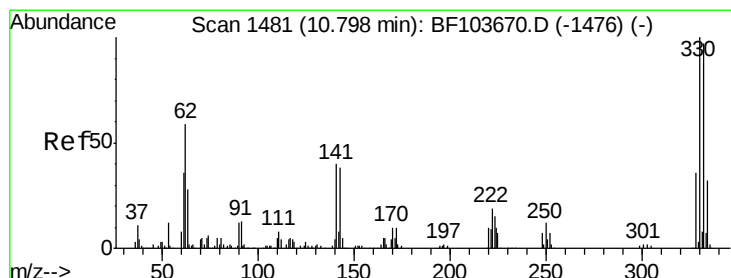
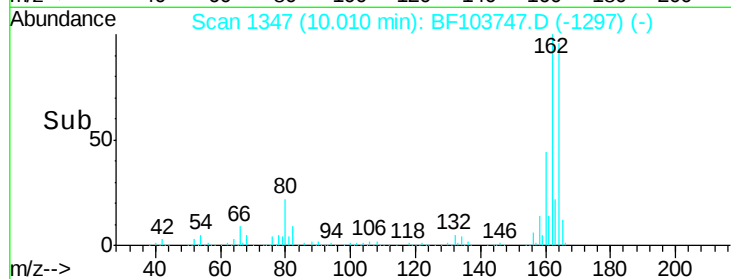
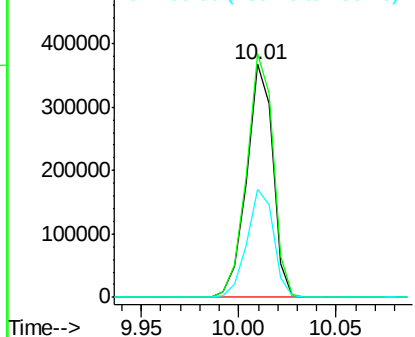
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.01 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 341162  
Ion Ratio Lower Upper  
164 100  
162 104.5 86.1 129.1  
160 46.4 38.3 57.5

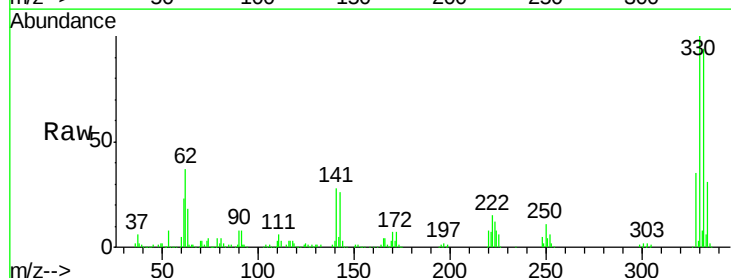


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

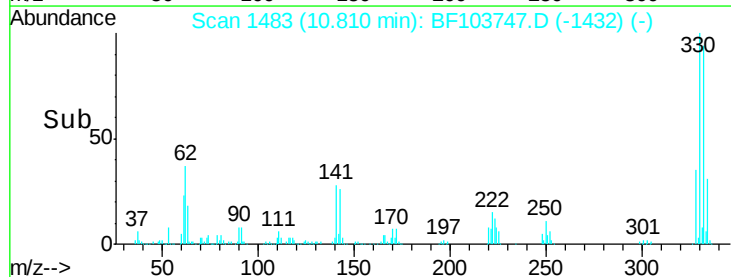
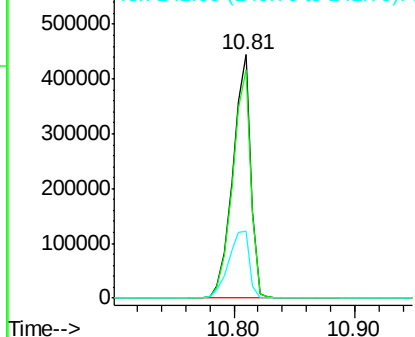


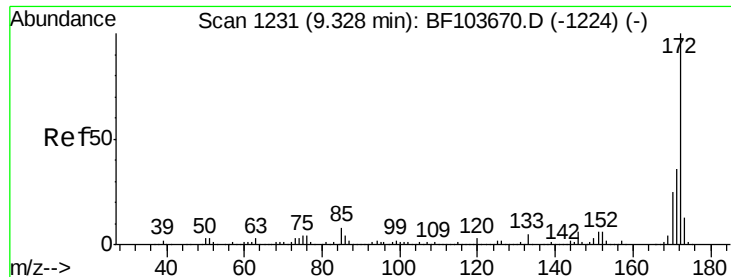
#41  
2,4,6-Tribromophenol  
Concen: 156.217 ng  
RT: 10.81 min Scan# 1483  
Delta R.T. -0.00 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Tgt Ion:330 Resp: 458237  
Ion Ratio Lower Upper  
330 100  
332 95.5 77.0 115.6  
141 32.1 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

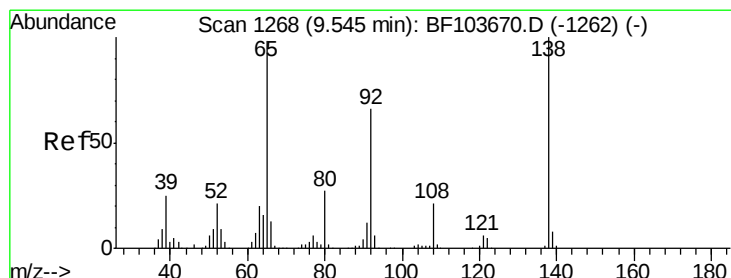
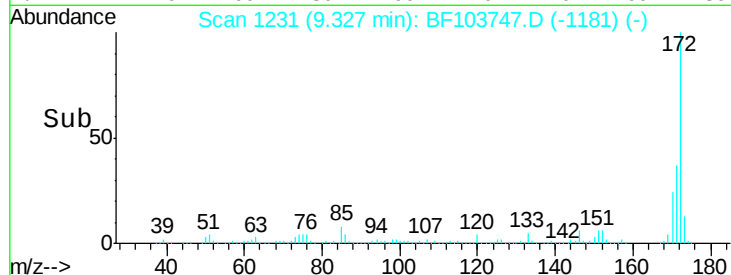
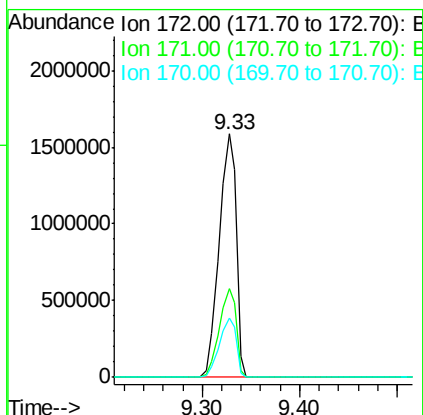
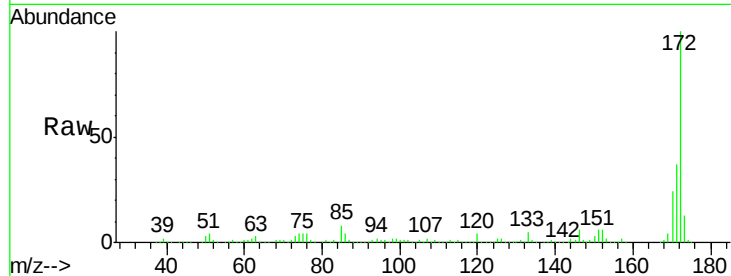




#44  
2-Fluorobiphenyl  
Concen: 89.852 ng  
RT: 9.33 min Scan# 1231  
Delta R.T. -0.01 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

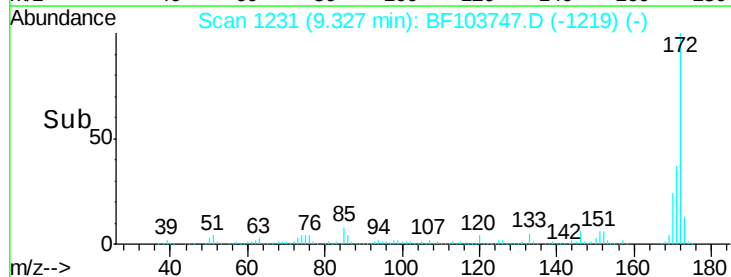
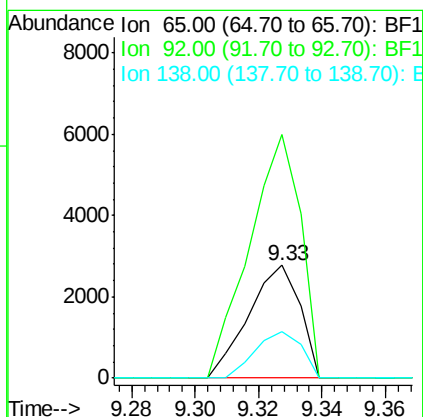
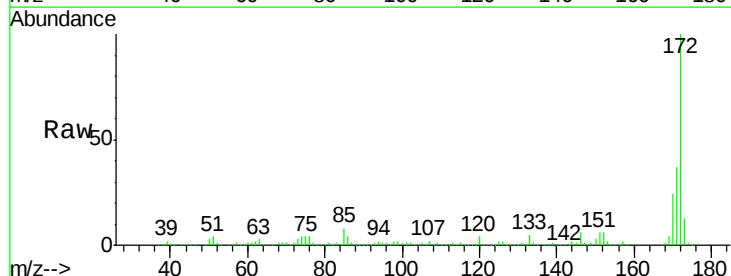
Instrument :  
BNA\_F  
ClientSampleId :

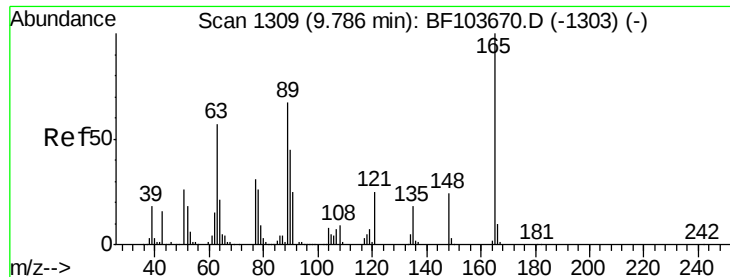
Tot Ion:172 Resp: 1921713  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.7 44.5  
170 24.3 19.6 29.4



#47  
2-Nitroaniline  
Concen: 7.267 ng  
RT: 9.33 min Scan# 1231  
Delta R.T. -0.23 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Tgt Ion: 65 Resp: 3117  
Ion Ratio Lower Upper  
65 100  
92 216.5 55.8 83.6#  
138 41.6 91.2 136.8#

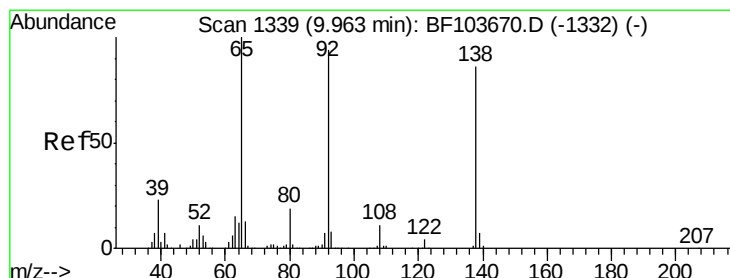
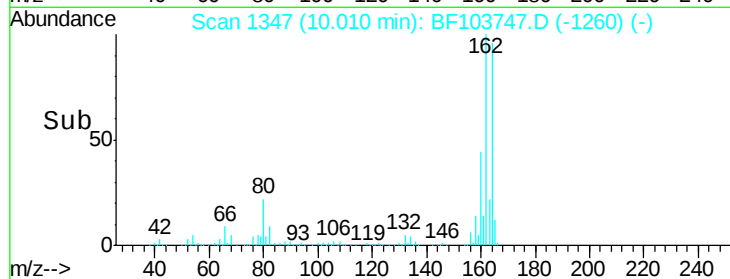
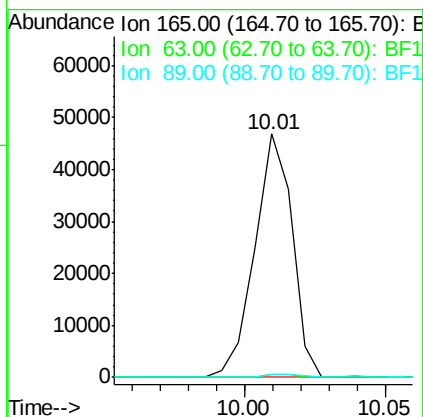
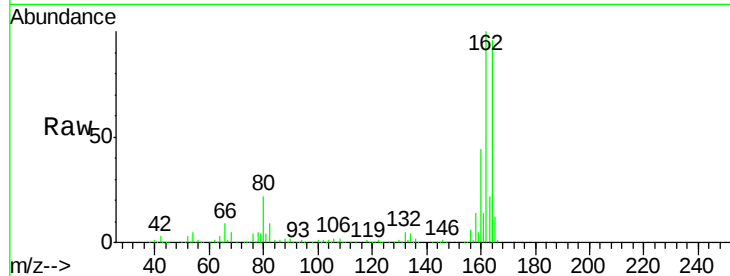




#50  
 2,6-Dinitrotoluene  
 Concen: 11.833 ng  
 RT: 10.01 min Scan# 1347  
 Delta R.T. 0.21 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

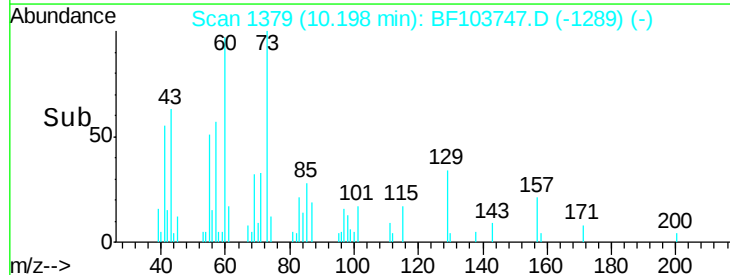
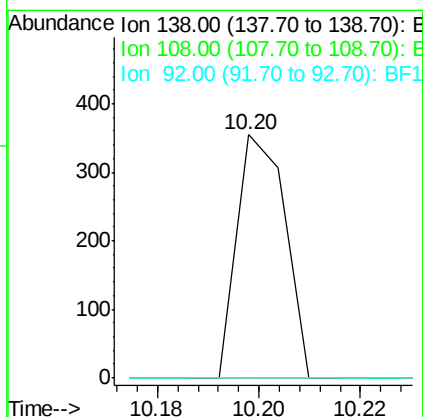
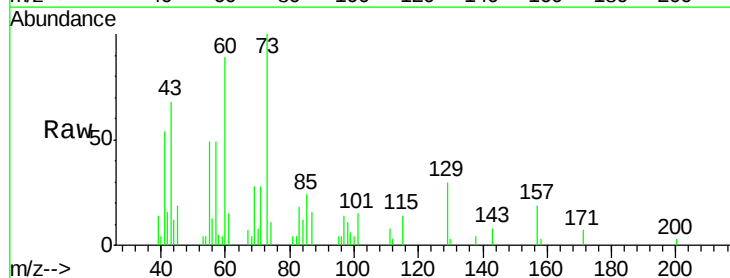
Instrument :  
 BNA\_F  
 ClientSampleId :

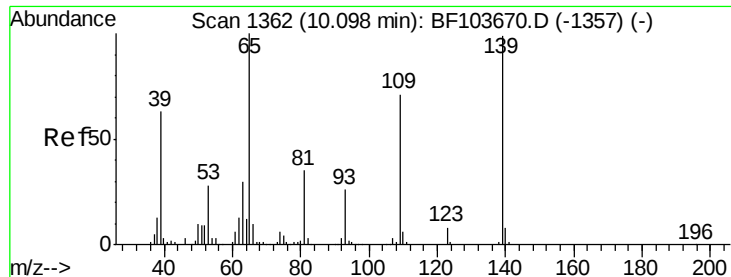
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 44.7  | 67.1# |
| 89      | 1.4   | 44.0  | 66.0# |



#52  
 3-Nitroaniline  
 Concen: 3.850 ng  
 RT: 10.20 min Scan# 1379  
 Delta R.T. 0.23 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 138     | 100   |       |        |
| 108     | 0.0   | 9.4   | 14.0#  |
| 92      | 0.0   | 89.4  | 134.2# |

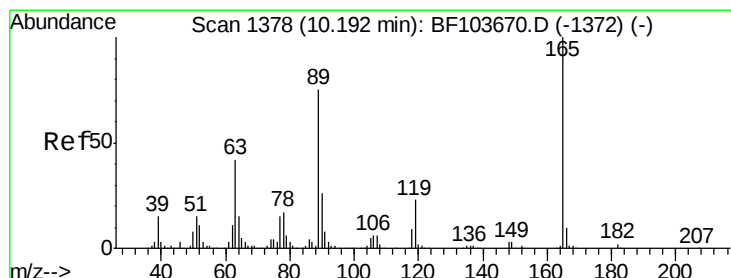
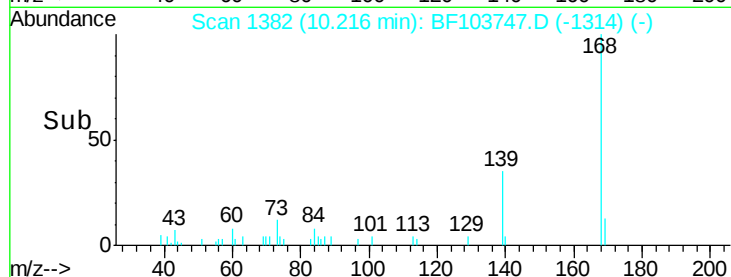
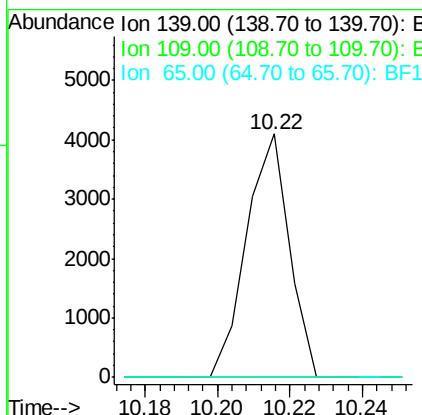
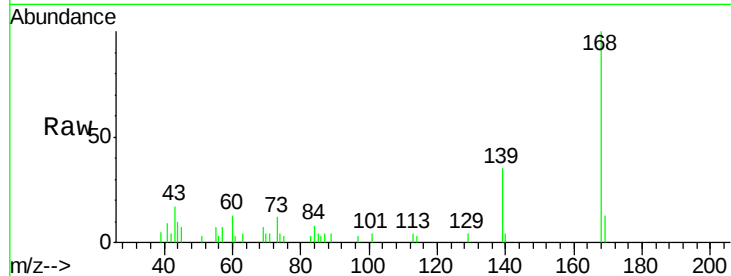




#55  
4-Nitrophenol  
Concen: 5.635 ng  
RT: 10.22 min Scan# 1382  
Delta R.T. 0.10 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

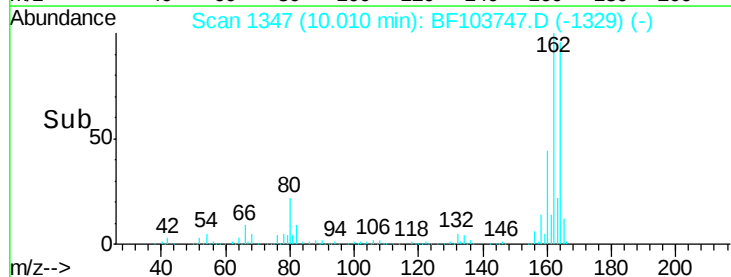
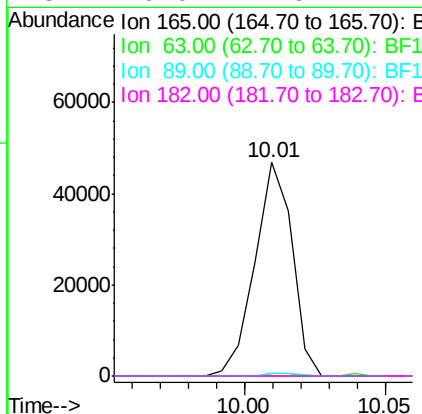
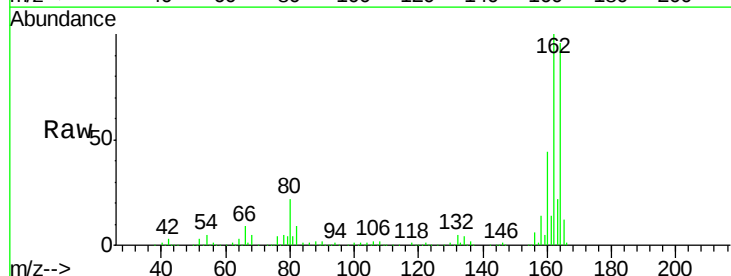
Instrument :  
BNA\_F  
ClientSampled :

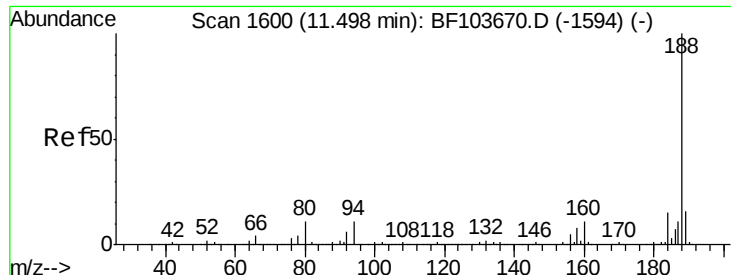
Tot Ion:139 Resp: 3382  
Ion Ratio Lower Upper  
139 100  
109 0.0 48.4 88.4#  
65 0.0 72.6 112.6#



#56  
2,4-Dinitrotoluene  
Concen: 12.095 ng  
RT: 10.01 min Scan# 1347  
Delta R.T. -0.19 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Tgt Ion:165 Resp: 43097  
Ion Ratio Lower Upper  
165 100  
63 1.3 36.4 54.6#  
89 1.4 57.8 86.6#  
182 0.0 1.6 2.4#

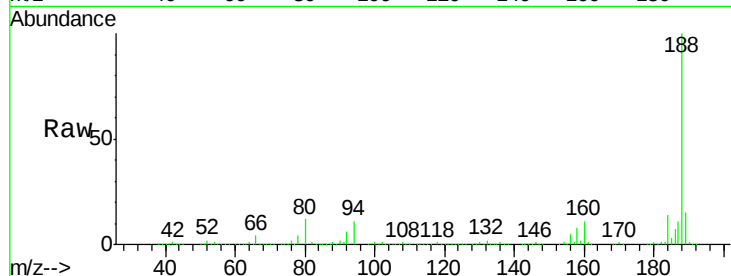




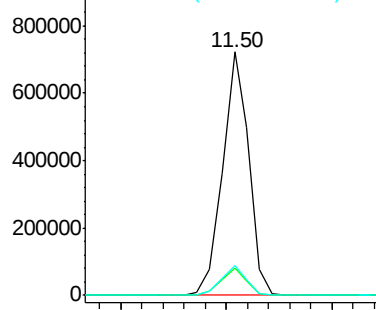
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1601  
 Delta R.T. -0.01 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

Instrument :  
 BNA\_F  
 ClientSampled :

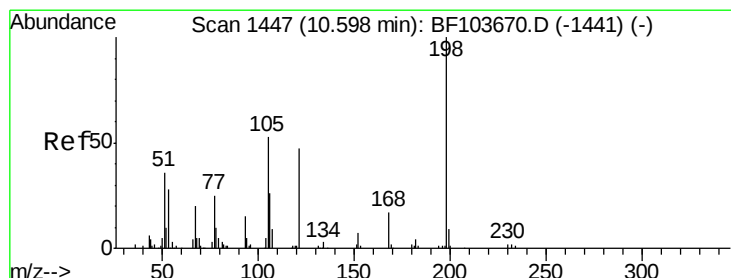
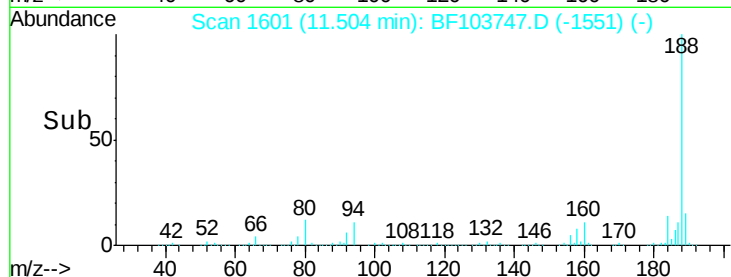
Tot Ion:188 Resp: 620761  
 Ion Ratio Lower Upper  
 188 100  
 94 11.1 8.5 12.7  
 80 12.2 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

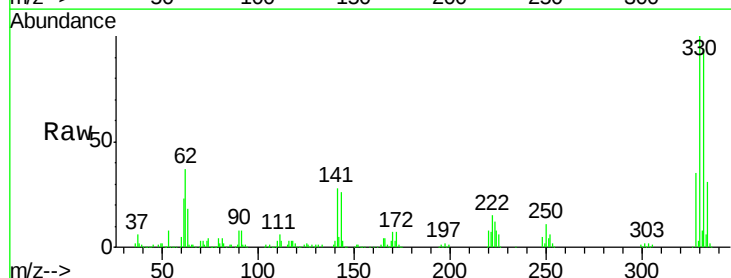


Time-->

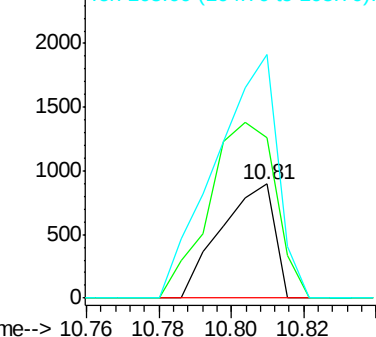


#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.562 ng  
 RT: 10.81 min Scan# 1483  
 Delta R.T. 0.20 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

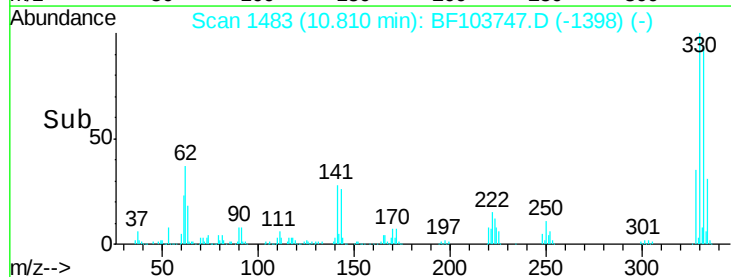
Tgt Ion:198 Resp: 923  
 Ion Ratio Lower Upper  
 198 100  
 51 141.3 37.7 77.7#  
 105 213.7 36.3 76.3#

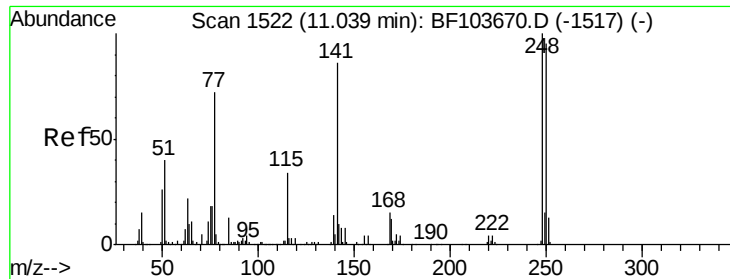


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E



Time-->

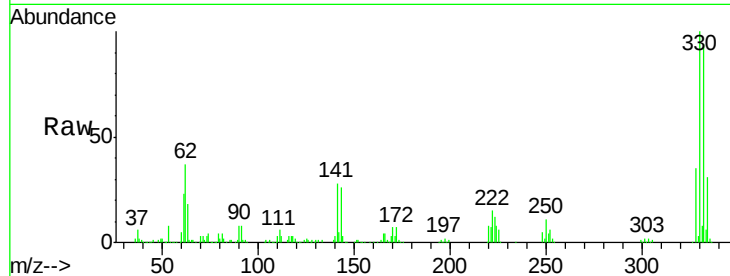




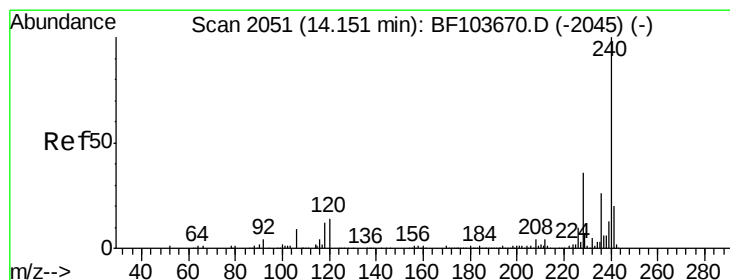
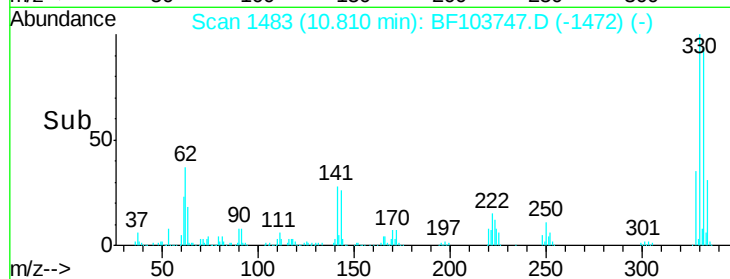
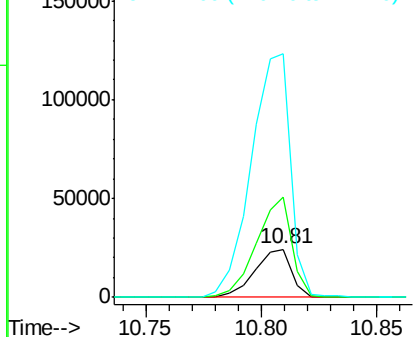
#66  
4-Bromophenyl-phenylether  
Concen: 4.262 ng  
RT: 10.81 min Scan# 1483  
Delta R.T. -0.24 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 27164  
Ion Ratio Lower Upper  
248 100  
250 208.0 76.9 115.3#  
141 506.5 74.4 111.6#

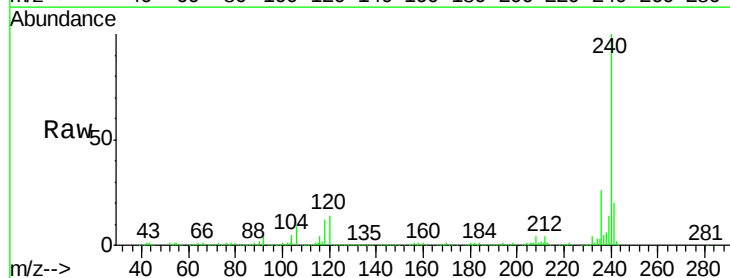


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

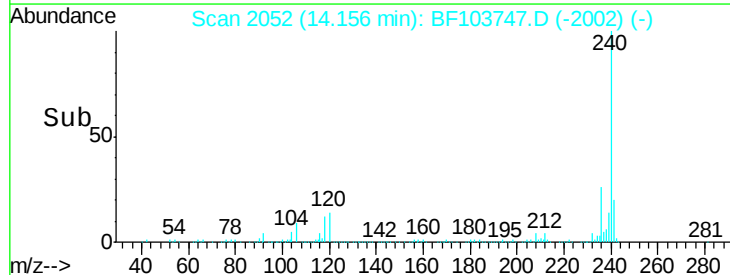
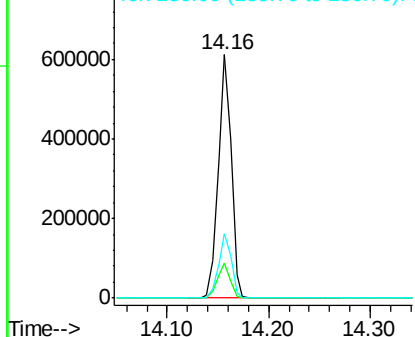


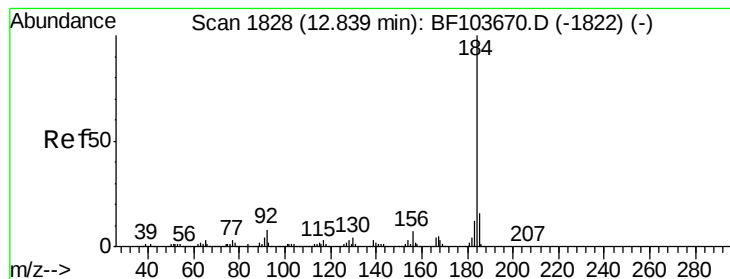
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.16 min Scan# 2052  
Delta R.T. -0.01 min  
Lab File: BF103747.D  
Acq: 19 Mar 2018 10:49

Tgt Ion:240 Resp: 545752  
Ion Ratio Lower Upper  
240 100  
120 14.5 9.5 14.3#  
236 26.2 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





#76

Benzidine

Concen: 22.151 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.00 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

Instrument :

BNA\_F

ClientSampleId :

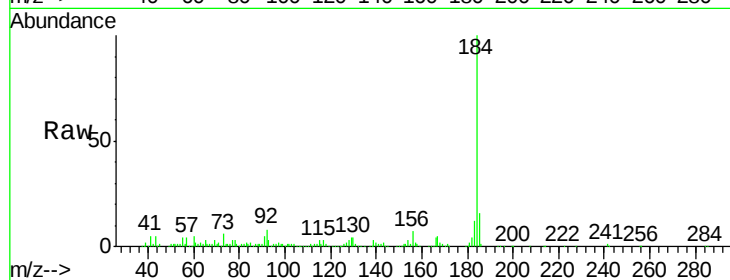
Tot Ion:184 Resp: 515598

Ion Ratio Lower Upper

184 100

185 15.6 12.6 18.8

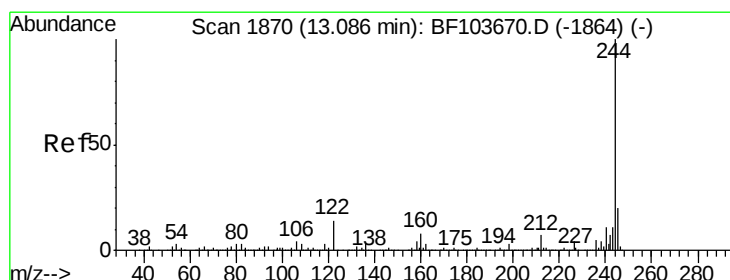
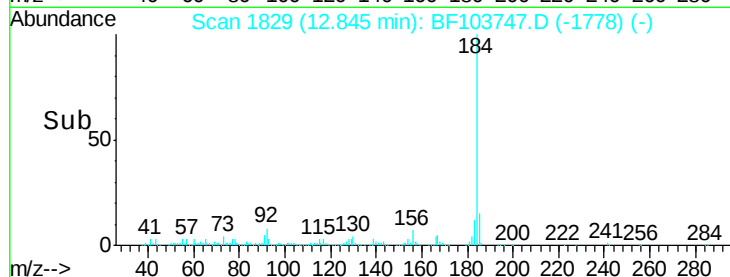
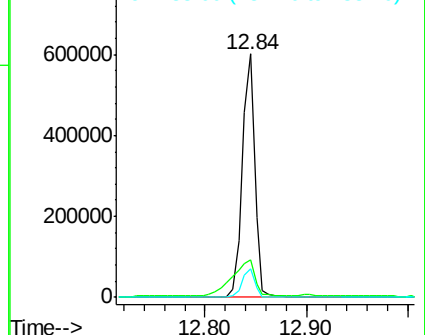
183 11.9 9.3 13.9



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 80.630 ng

RT: 13.10 min Scan# 1872

Delta R.T. -0.00 min

Lab File: BF103747.D

Acq: 19 Mar 2018 10:49

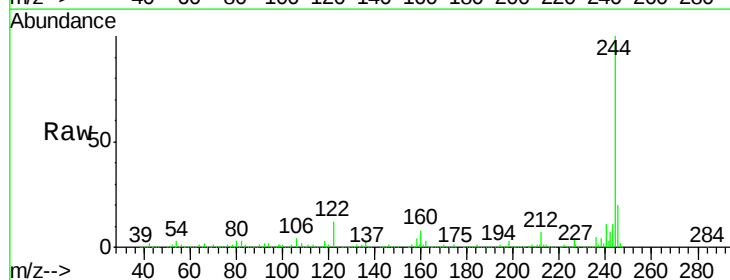
Tgt Ion:244 Resp: 1895779

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

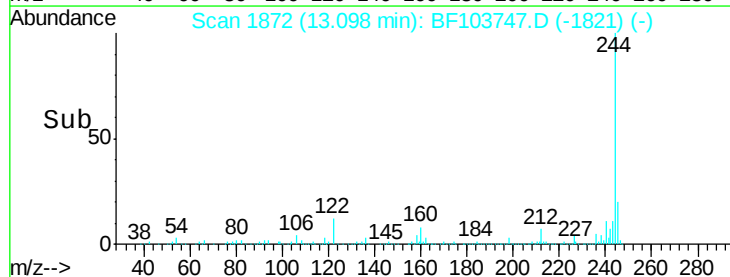
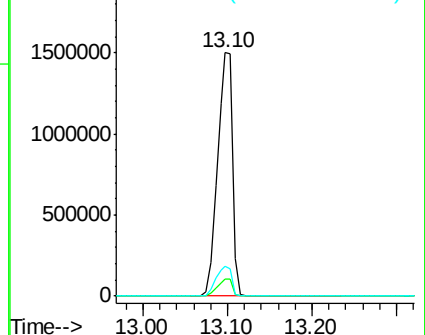
122 12.3 11.0 16.4

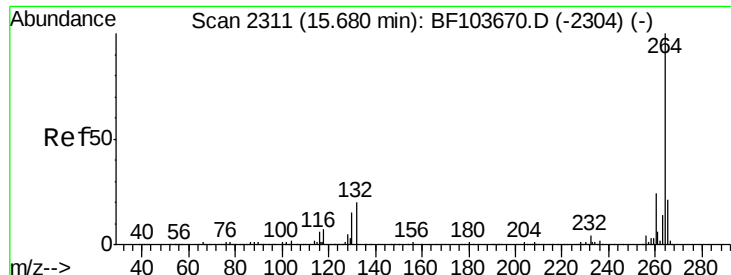


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

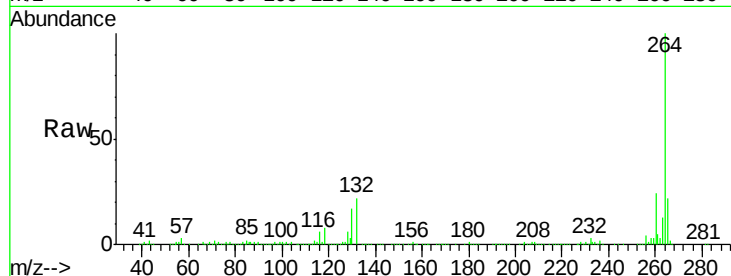




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.70 min Scan# 2314  
 Delta R.T. -0.01 min  
 Lab File: BF103747.D  
 Acq: 19 Mar 2018 10:49

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:264 Resp: 477764  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 21.6 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

