

Data Path : Z:\HPCHEM1\BNA F\DATA\BF083017\  
 Data File : BF098166.D  
 Acq On : 30 Aug 2017 20:07  
 Operator : SJ/JU  
 Sample : I5008-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 31 06:44:02 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

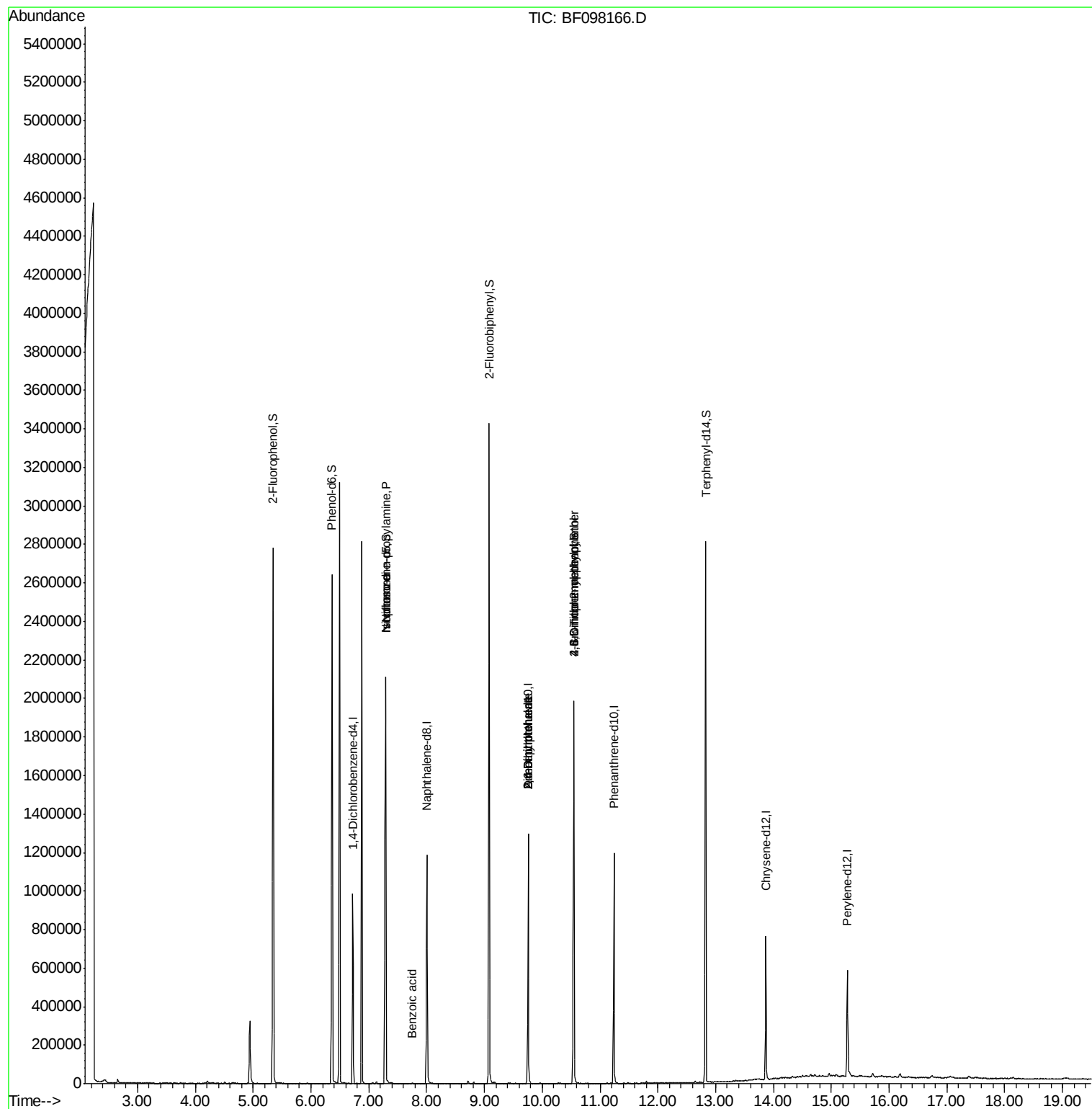
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 129818   | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.00  | 136  | 524047   | 20.00  | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 237877   | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.24 | 188  | 430461   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 13.87 | 240  | 259389   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12               | 15.28 | 264  | 243603   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.35  | 112  | 940029   | 110.14 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.36  | 99   | 1178789  | 101.65 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 873196   | 90.52  | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 251181   | 121.70 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1317254  | 81.36  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.83 | 244  | 978286   | 78.65  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 115313   | 14.526 | ng    | # 69     |
| 25) Isophorone                 | 7.29  | 82   | 864473   | 43.097 | ng    | # 67     |
| 32) Benzoic acid               | 7.75  | 122  | 120      | 6.421  | ng    | # 85     |
| 49) Dimethylphthalate          | 9.76  | 163  | 65419    | 3.762  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 30929    | 8.911  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 30929    | 7.101  | ng    | # 34     |
| 64) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 438      | 8.499  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 16096    | 3.601  | ng    | # 1      |

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

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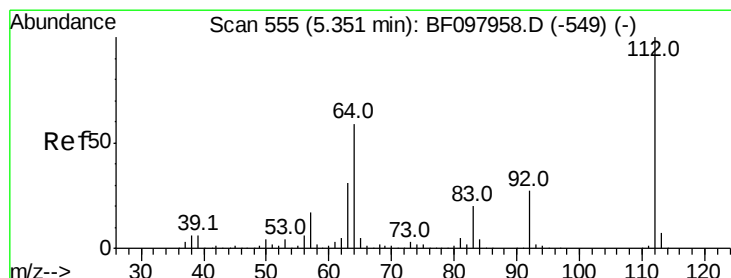
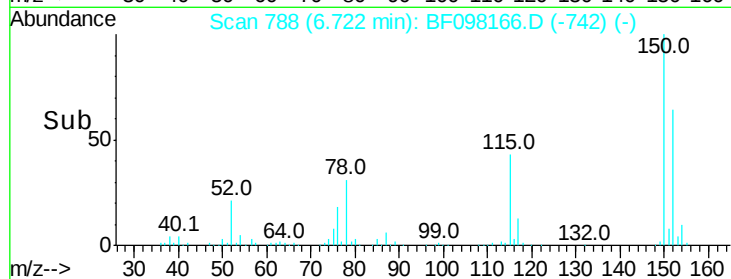
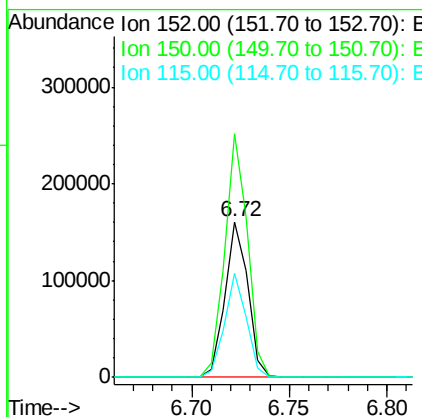
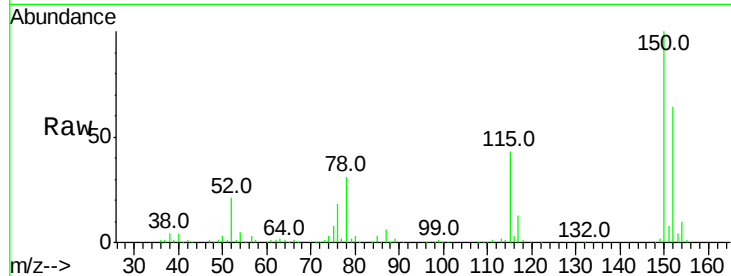


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 788  
 Delta R.T. -0.03 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

Instrument :  
 BNA\_F  
 ClientSampleId :

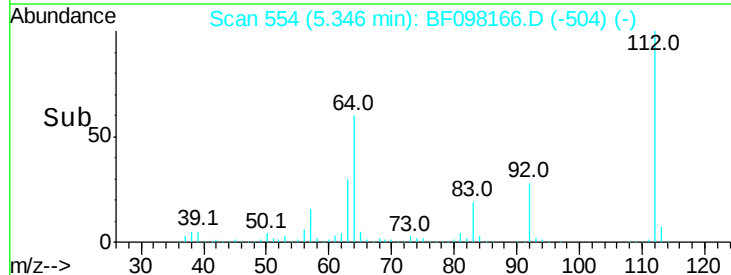
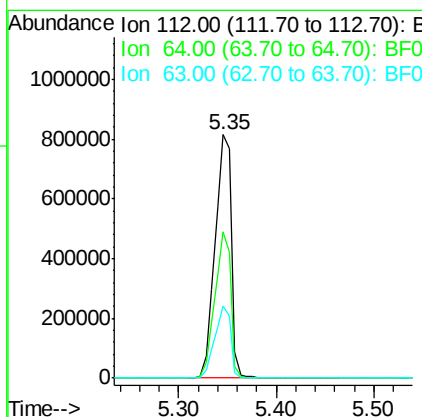
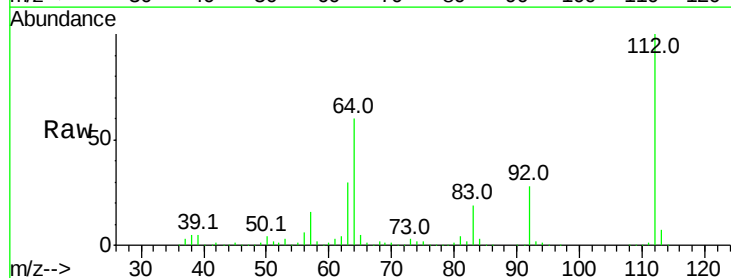
Tot Ion:152 Resp: 129818  
 Ion Ratio Lower Upper  
 152 100  
 150 156.3 126.2 189.2  
 115 66.6 52.2 78.2

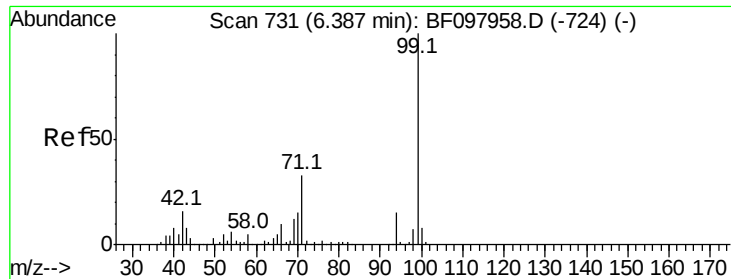


#5

2-Fluorophenol  
 Concen: 110.143 ng  
 RT: 5.35 min Scan# 554  
 Delta R.T. -0.01 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

Tgt Ion:112 Resp: 940029  
 Ion Ratio Lower Upper  
 112 100  
 64 60.0 46.0 69.0  
 63 29.8 23.4 35.0





#7

Phenol-d6

Concen: 101.654 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.02 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

Instrument :

BNA\_F

ClientSampled :

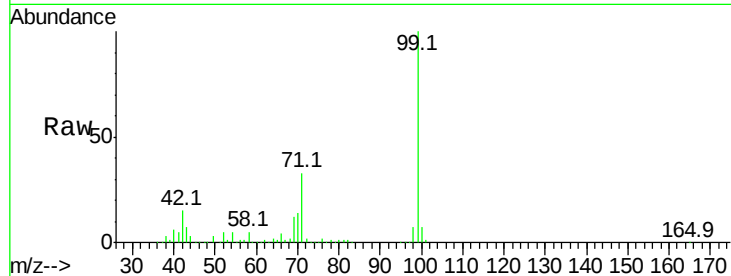
Tot Ion: 99 Resp: 1178789

Ion Ratio Lower Upper

99 100

42 14.6 13.5 20.3

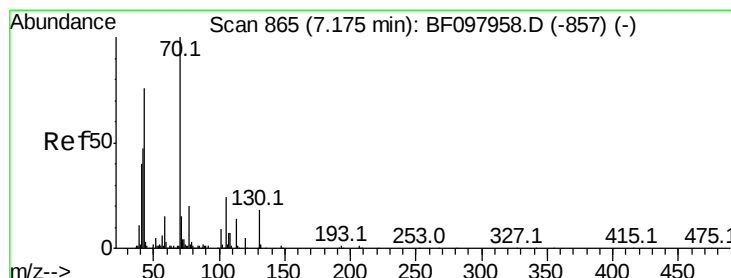
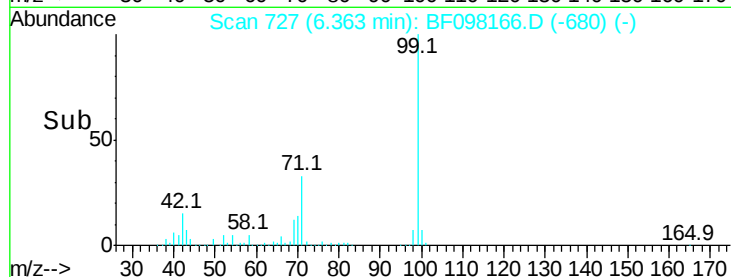
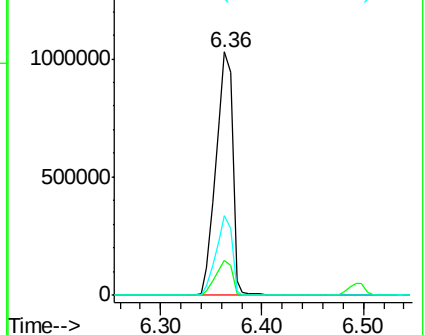
71 32.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.526 ng

RT: 7.29 min Scan# 885

Delta R.T. 0.12 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

Tgt Ion: 70 Resp: 115313

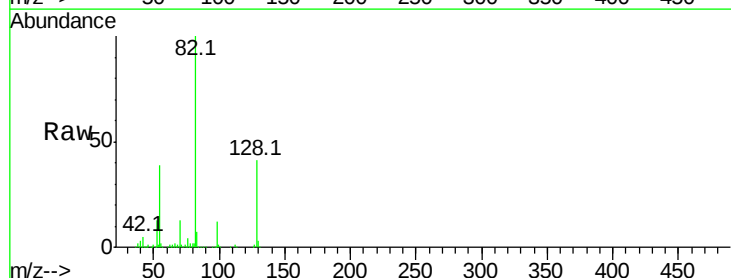
Ion Ratio Lower Upper

70 100

42 36.7 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

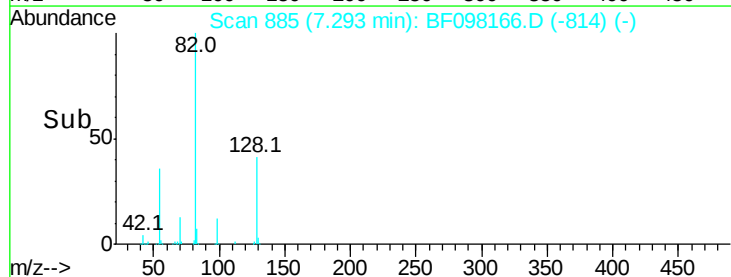
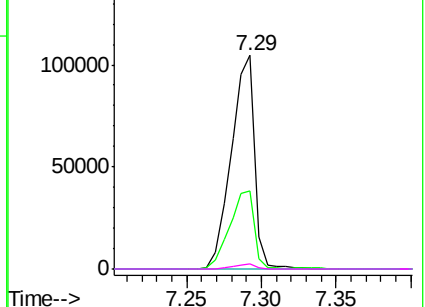


Abundance Ion 70.00 (69.70 to 70.70): BF0

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

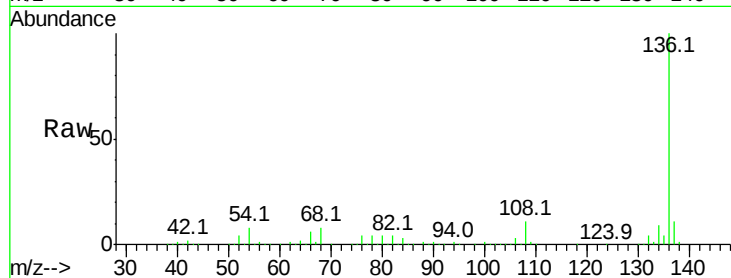




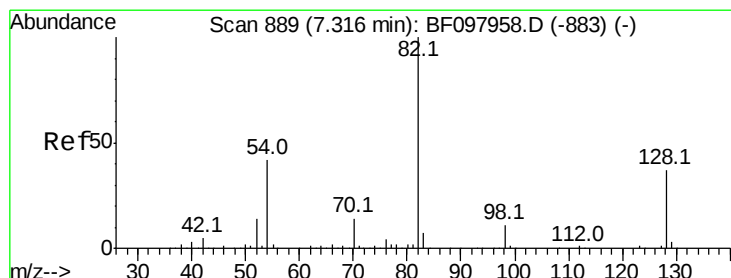
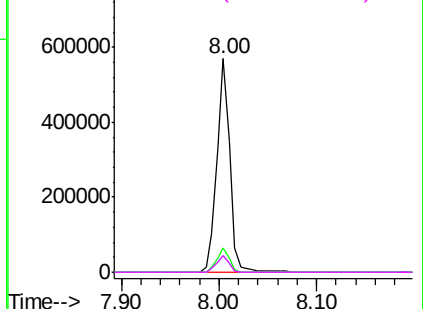
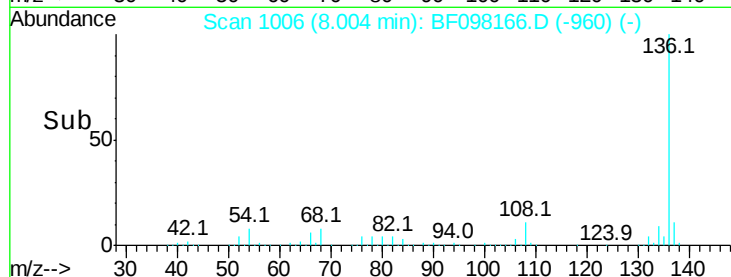
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. -0.03 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 524047 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.5   | 12.7   |
| 54       | 7.8   | 4.9   | 7.3#   |
| 68       | 7.9   | 4.1   | 6.1#   |

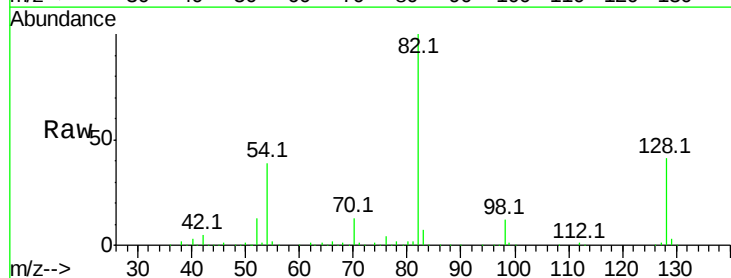


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

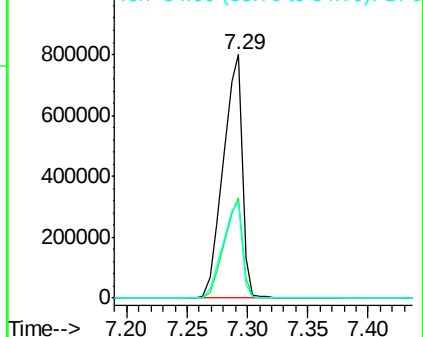
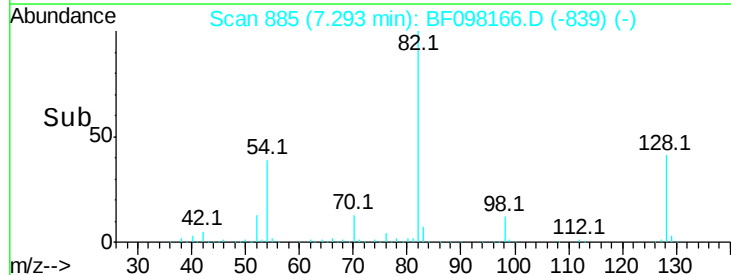


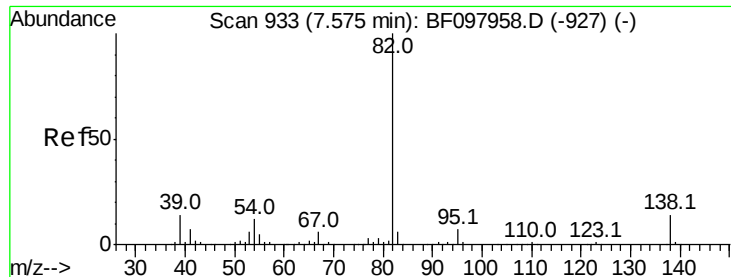
#23  
Nitrobenzene-d5  
Concen: 90.519 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.03 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 873196 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.0  | 34.0  | 51.0   |
| 54       | 39.1  | 42.2  | 63.2#  |



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: 43.097 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.29 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

Instrument :

BNA\_F

ClientSampleId :

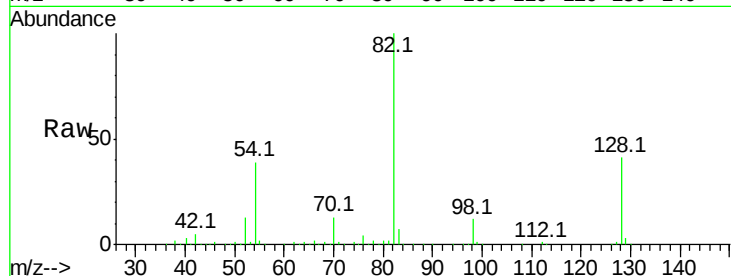
Tot Ion: 82 Resp: 864473

Ion Ratio Lower Upper

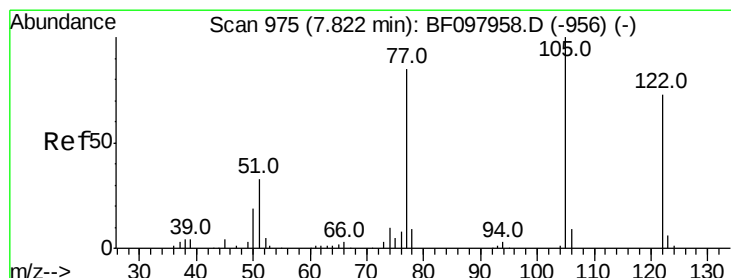
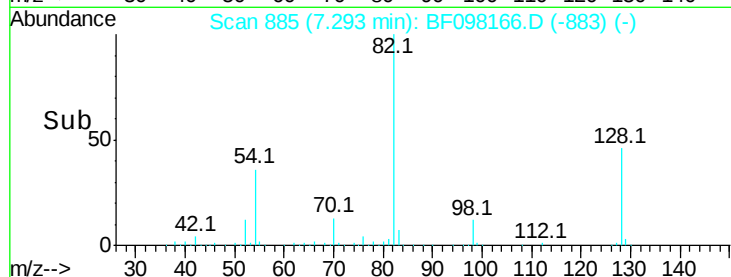
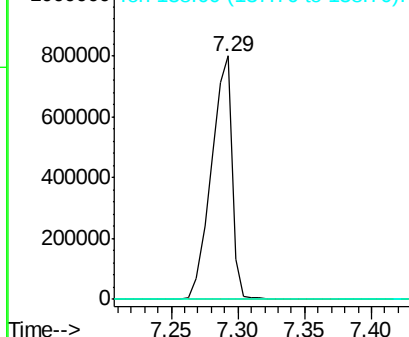
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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



#32

Benzoic acid

Concen: 6.421 ng

RT: 7.75 min Scan# 963

Delta R.T. -0.08 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

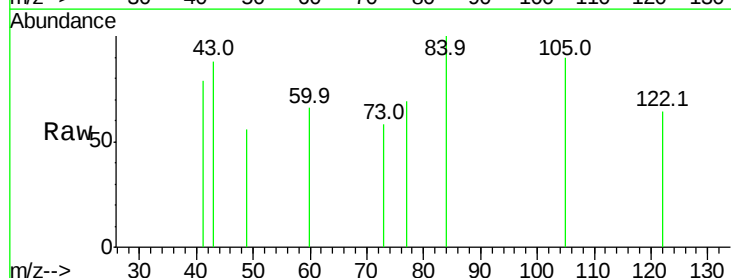
Tgt Ion:122 Resp: 120

Ion Ratio Lower Upper

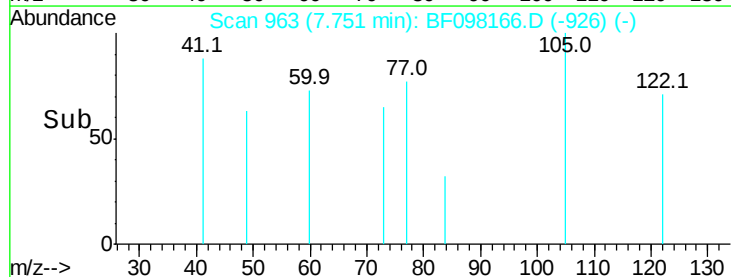
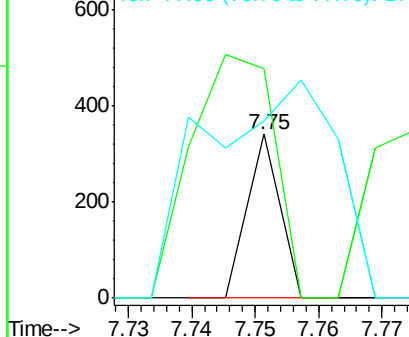
122 100

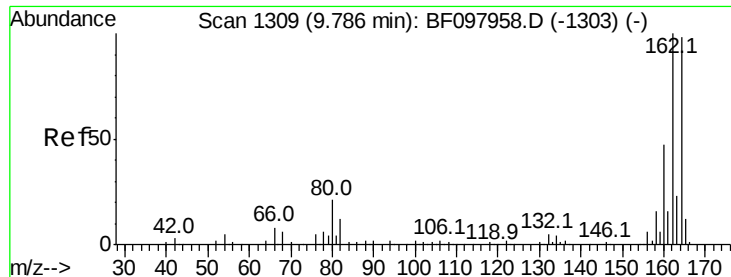
105 140.3 103.3 143.3

77 108.5 73.7 113.7



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): BF0

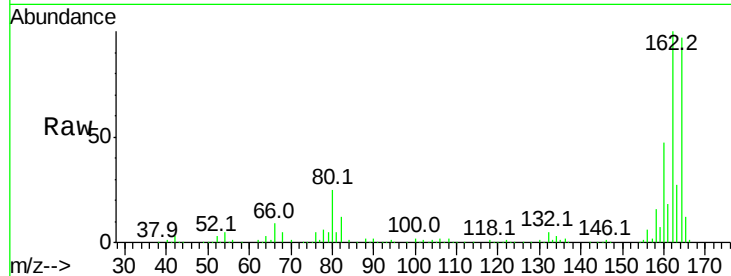




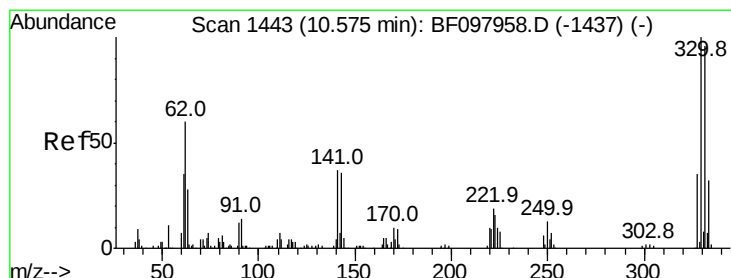
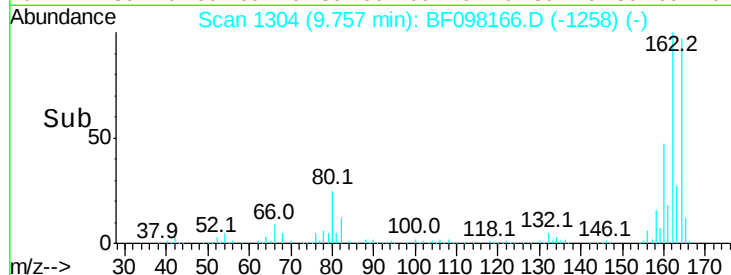
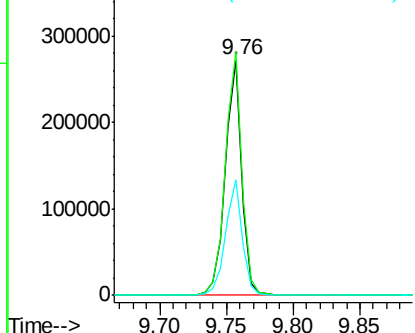
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.03 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 82.6  | 123.8 |
| 160     | 49.1  | 36.2  | 54.2  |

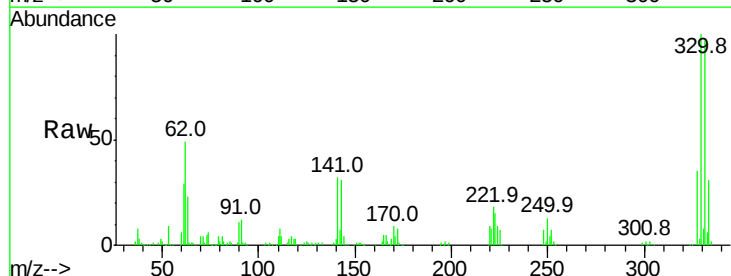


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

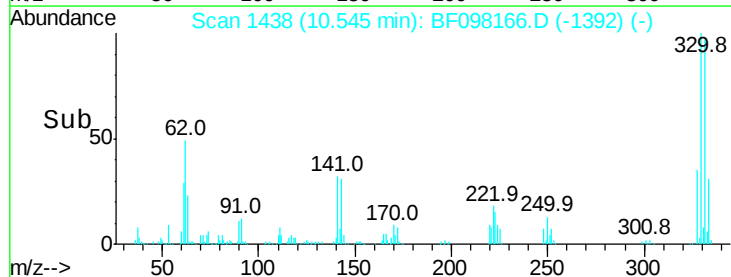
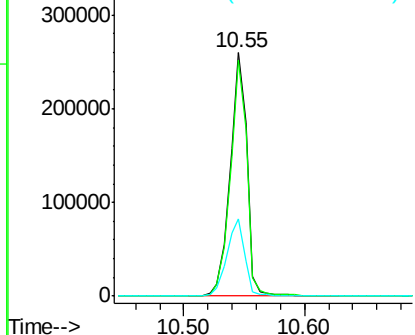


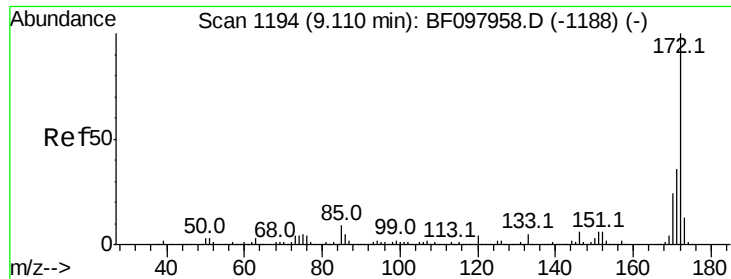
#41  
 2,4,6-Tribromophenol  
 Concen: 121.698 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.03 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 76.6  | 115.0 |
| 141     | 33.8  | 31.4  | 47.2  |



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

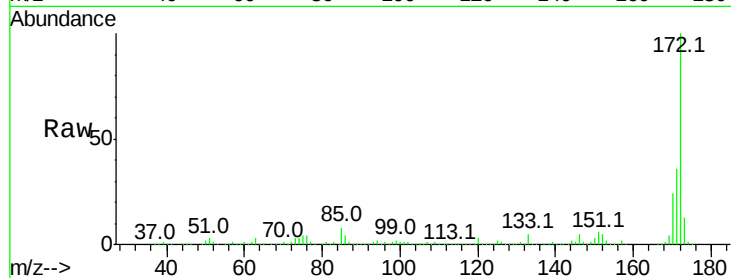




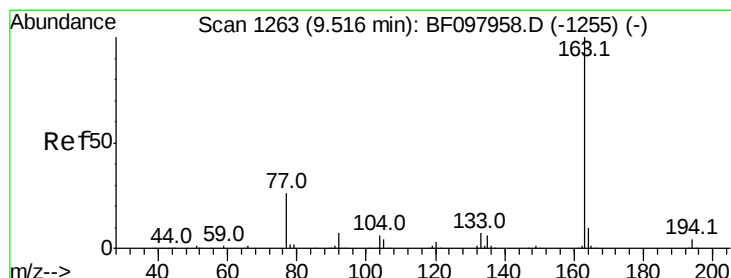
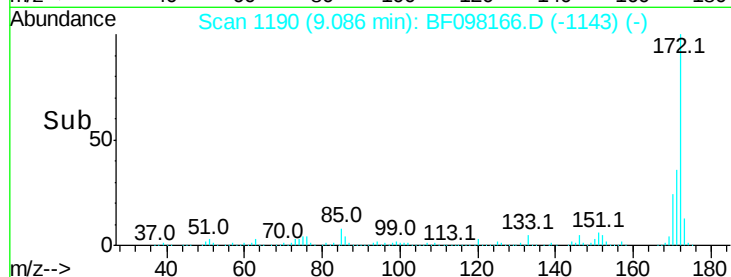
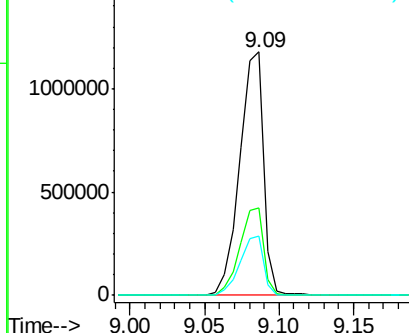
#44  
2-Fluorobiphenyl  
Concen: 81.358 ng  
RT: 9.09 min Scan# 1190  
Delta R.T. -0.02 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1317254  
Ion Ratio Lower Upper  
172 100  
171 35.9 29.6 44.4  
170 24.4 19.8 29.8

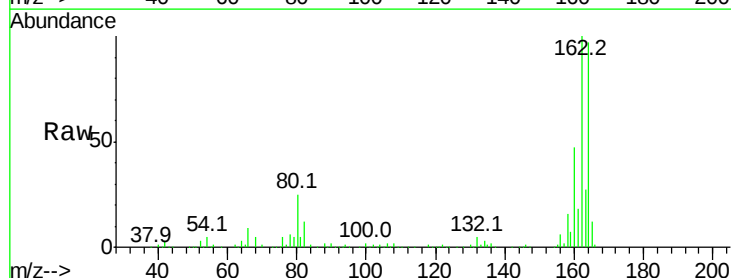


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

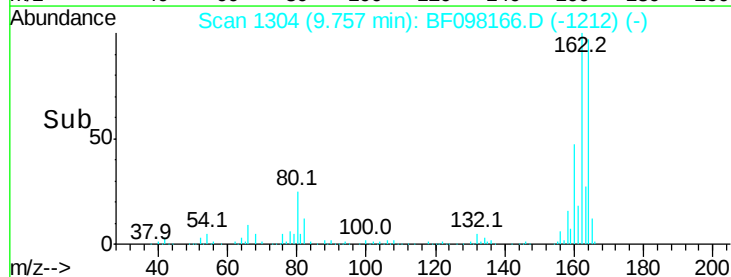
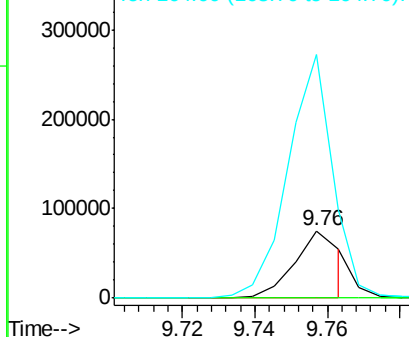


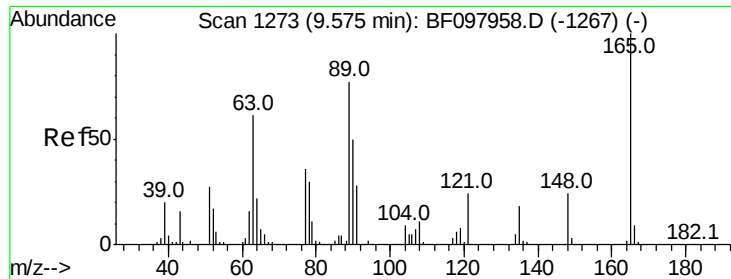
#49  
Dimethylphthalate  
Concen: 3.762 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. 0.24 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

Tgt Ion:163 Resp: 65419  
Ion Ratio Lower Upper  
163 100  
194 0.0 2.6 4.0#  
164 362.7 8.4 12.6#



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

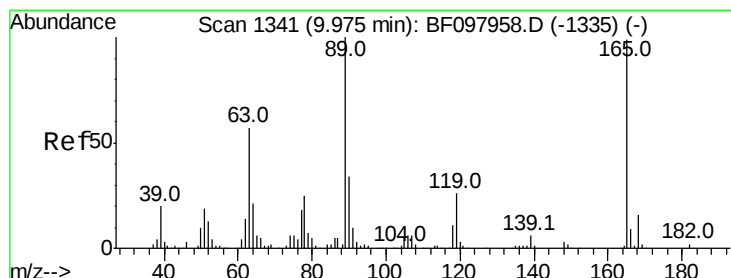
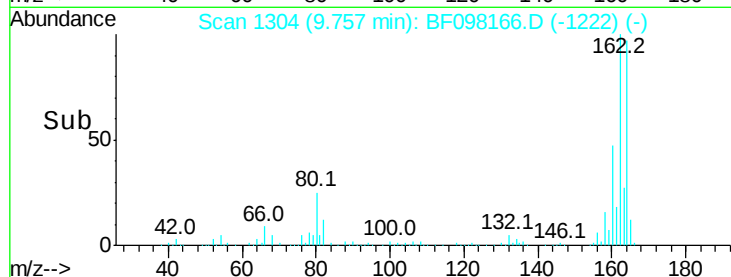
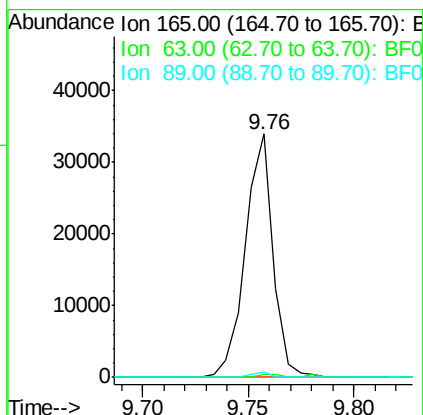
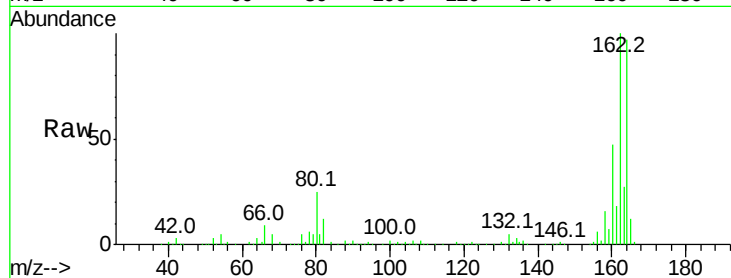




#50  
 2,6-Dinitrotoluene  
 Concen: 8.911 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.18 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

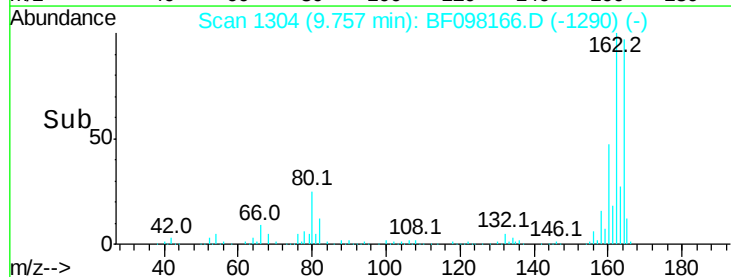
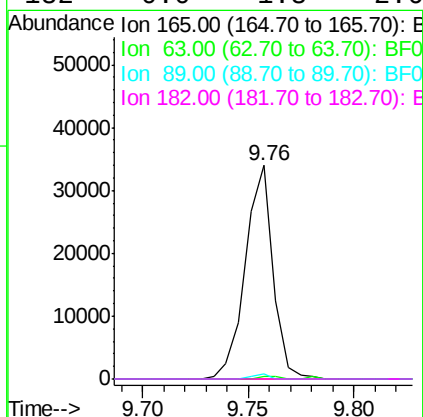
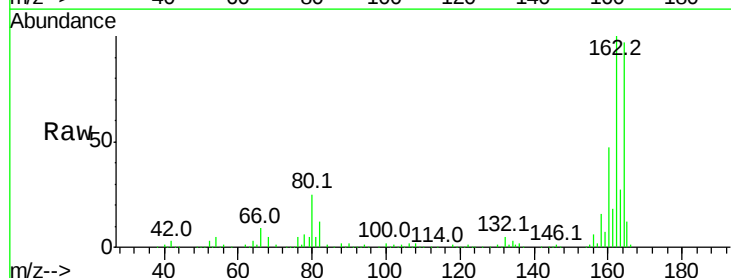
Instrument :  
 BNA\_F  
 ClientSampleId :

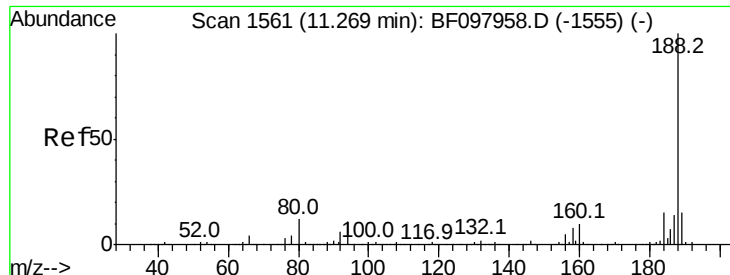
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 34.3  | 51.5# |
| 89      | 2.3   | 37.1  | 55.7# |



#56  
 2,4-Dinitrotoluene  
 Concen: 7.101 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.22 min  
 Lab File: BF098166.D  
 Acq: 30 Aug 2017 20:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 25.4  | 38.0# |
| 89      | 2.3   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.24 min Scan# 1556

Delta R.T. -0.02 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

Instrument :

BNA\_F

ClientSampleId :

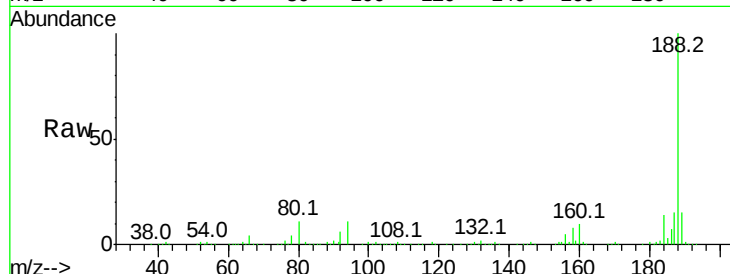
Tot Ion:188 Resp: 430461

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

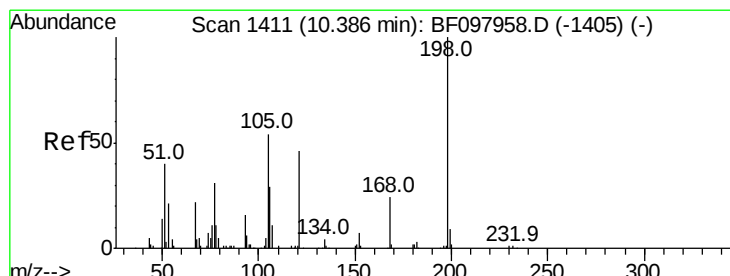
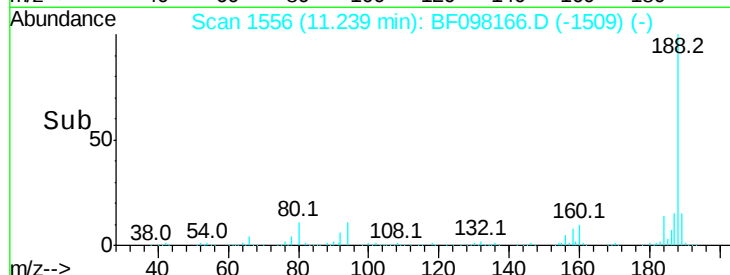
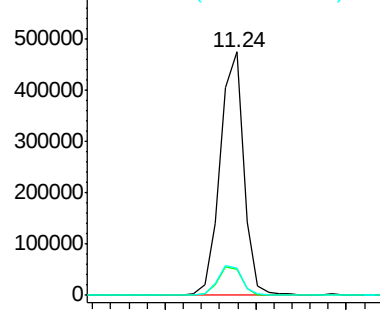
80 11.4 10.2 15.2



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



#64

4,6-Dinitro-2-methylphenol

Concen: 8.499 ng

RT: 10.55 min Scan# 1438

Delta R.T. 0.16 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

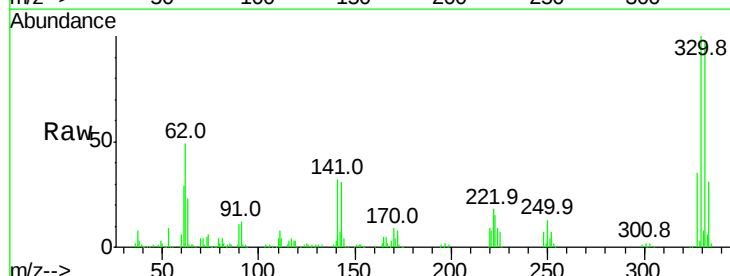
Tgt Ion:198 Resp: 438

Ion Ratio Lower Upper

198 100

51 142.2 53.2 93.2#

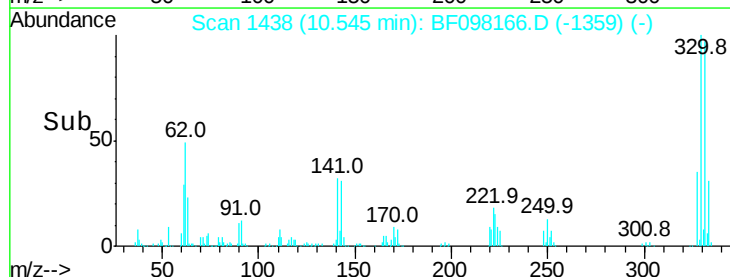
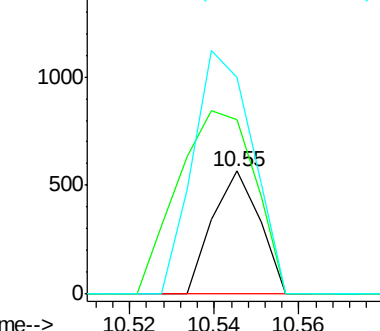
105 176.7 45.8 85.8#

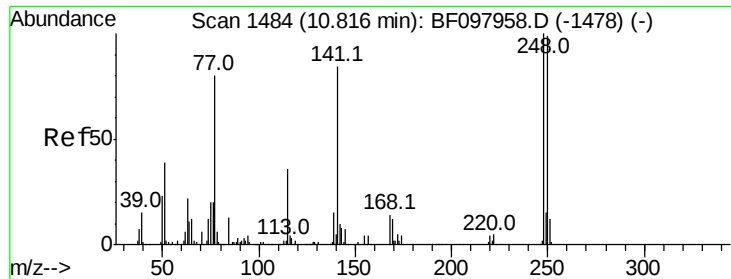


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E

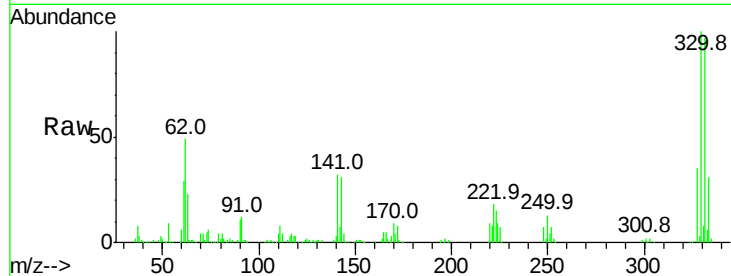




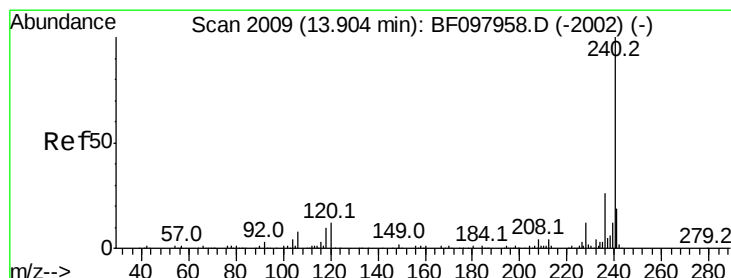
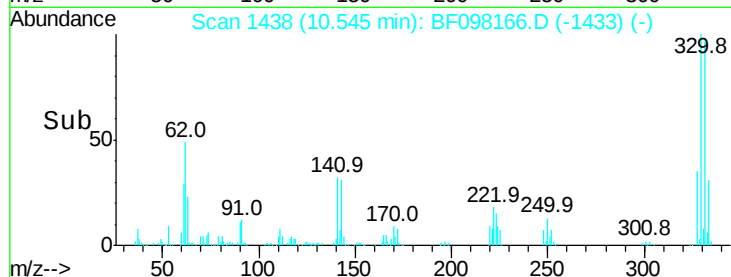
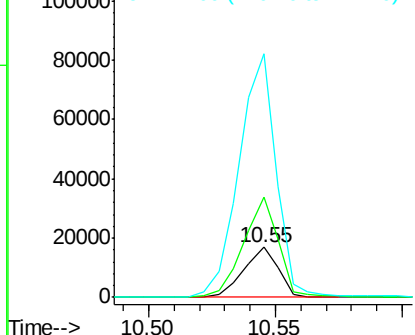
#66  
4-Bromophenyl-phenylether  
Concen: 3.601 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.27 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 16096  
Ion Ratio Lower Upper  
248 100  
250 201.4 76.8 115.2#  
141 486.4 68.6 103.0#

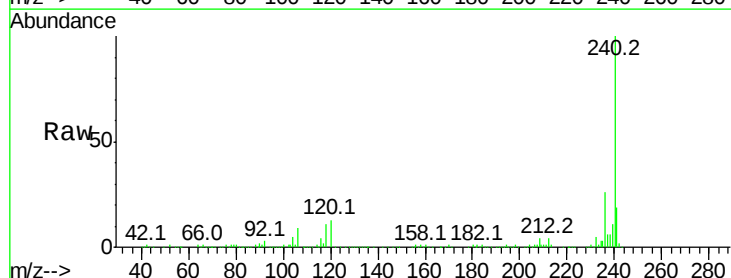


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

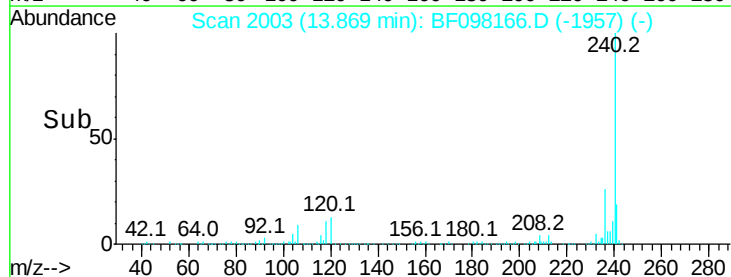
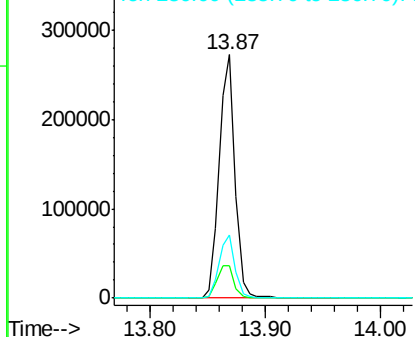


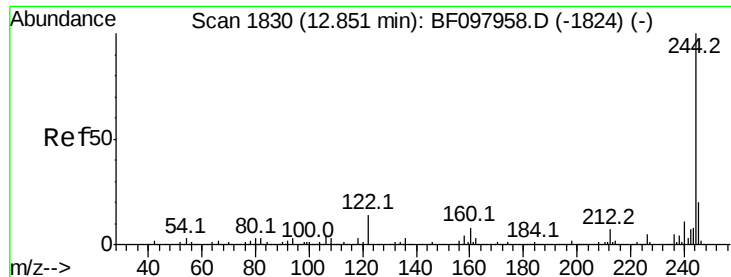
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.03 min  
Lab File: BF098166.D  
Acq: 30 Aug 2017 20:07

Tgt Ion:240 Resp: 259389  
Ion Ratio Lower Upper  
240 100  
120 13.3 5.8 8.8#  
236 25.7 20.5 30.7



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: 78.648 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.02 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

Instrument :

BNA\_F

ClientSampleId :

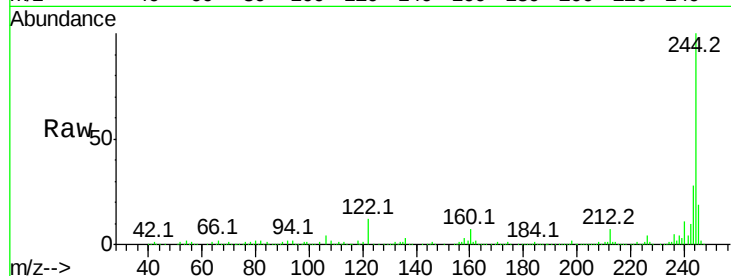
Tot Ion:244 Resp: 978286

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

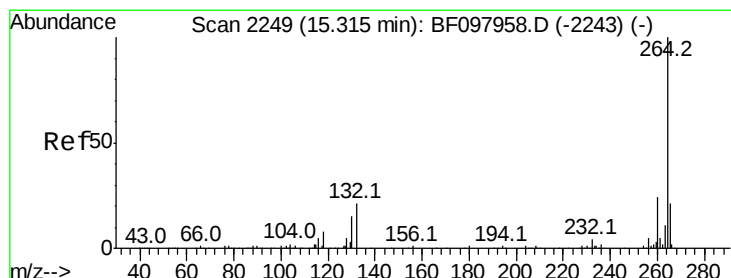
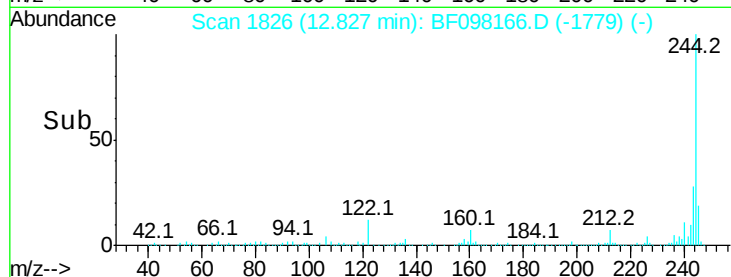
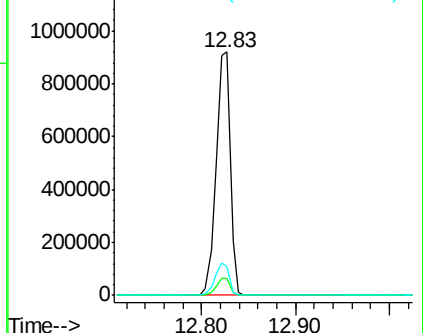
122 11.9 10.3 15.5



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: 15.28 min Scan# 2243

Delta R.T. -0.03 min

Lab File: BF098166.D

Acq: 30 Aug 2017 20:07

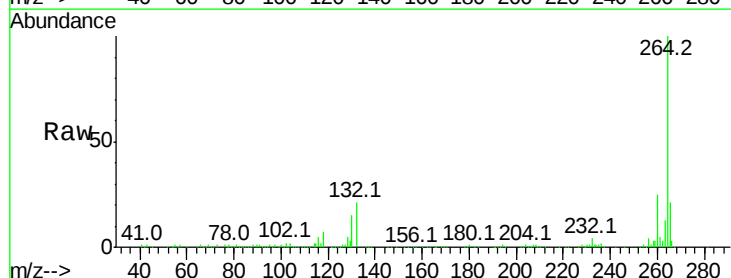
Tgt Ion:264 Resp: 243603

Ion Ratio Lower Upper

264 100

260 25.2 19.5 29.3

265 21.2 17.2 25.8



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

