

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080817\  
 Data File : BF097498.D  
 Acq On : 9 Aug 2017 5:06  
 Operator : SJ/JU  
 Sample : I4604-04  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 09 05:34:02 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 07 16:02:51 2017  
 Response via : Initial Calibration

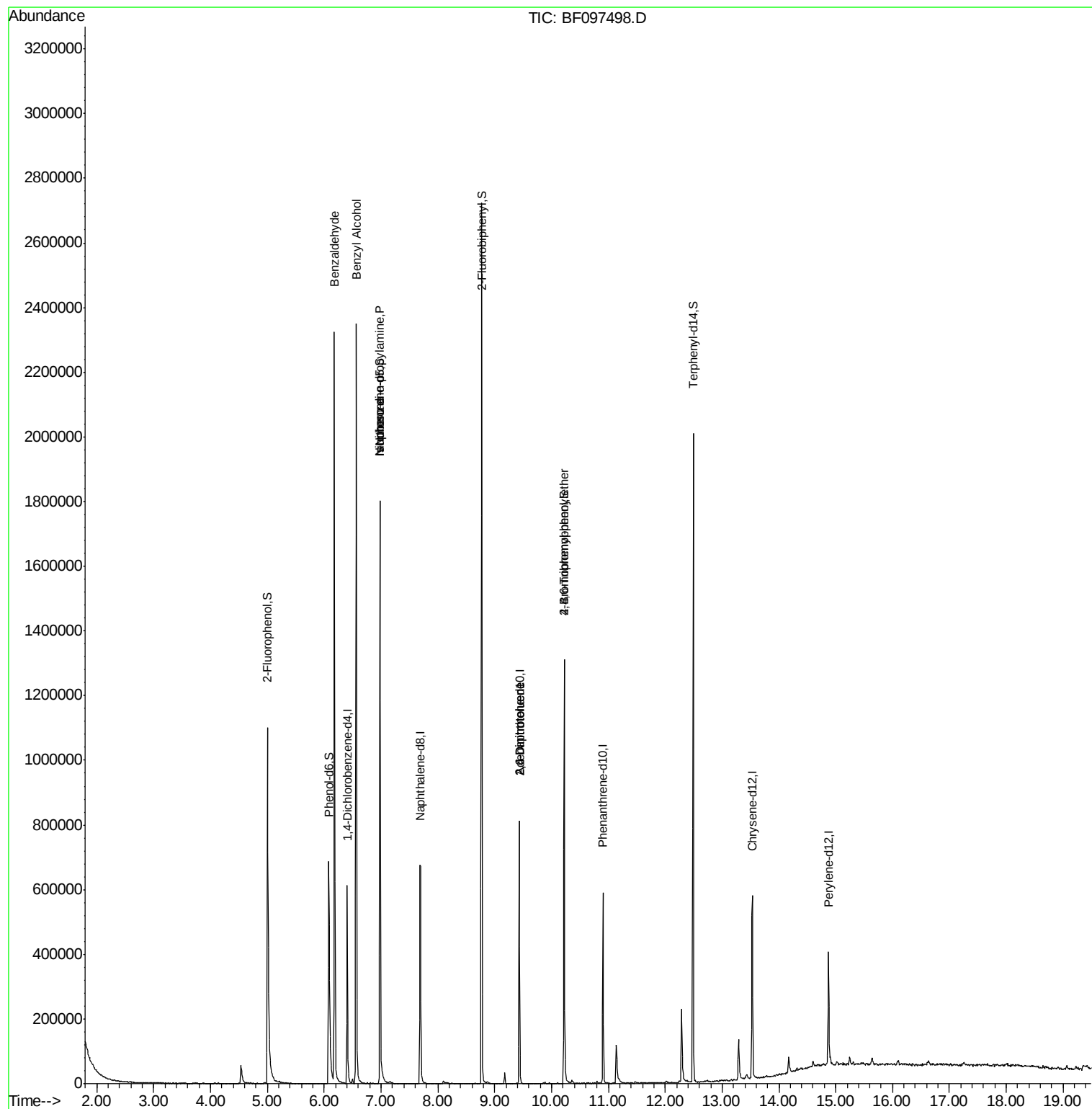
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.40  | 152  | 97626    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.69  | 136  | 364921   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.43  | 164  | 154148   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 10.90 | 188  | 222891   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.53 | 240  | 190371   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 14.87 | 264  | 143870   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.00  | 112  | 438423   | 67.70  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.08  | 99   | 320073   | 43.29  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 6.98  | 82   | 588597   | 94.62  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.22 | 330  | 145998   | 119.88 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.77  | 172  | 893150   | 98.33  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.49 | 244  | 628606   | 67.32  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.18  | 77   | 13878    | 3.17   | ng    | # 76     |
| 15) Benzyl Alcohol             | 6.56  | 79   | 10378    | 2.22   | ng    | # 31     |
| 19) n-Nitroso-di-n-propylamine | 6.98  | 70   | 78993    | 16.23  | ng    | # 86     |
| 25) Isophorone                 | 6.98  | 82   | 588591   | 48.32  | ng    | # 67     |
| 50) 2,6-Dinitrotoluene         | 9.43  | 165  | 19813    | 7.98   | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.43  | 165  | 19813    | 6.94   | ng    | # 32     |
| 66) 4-Bromophenyl-phenylether  | 10.22 | 248  | 9320     | 4.19   | ng    | # 1      |

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

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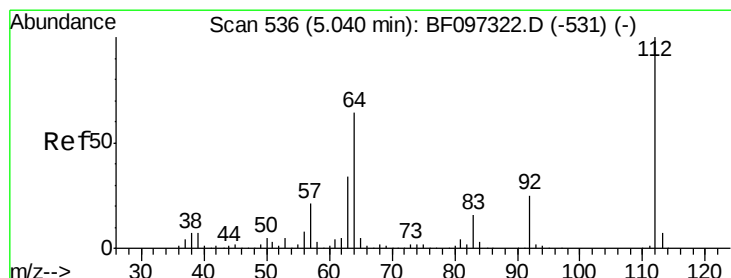
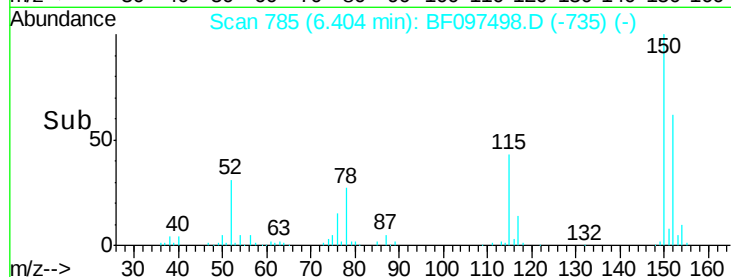
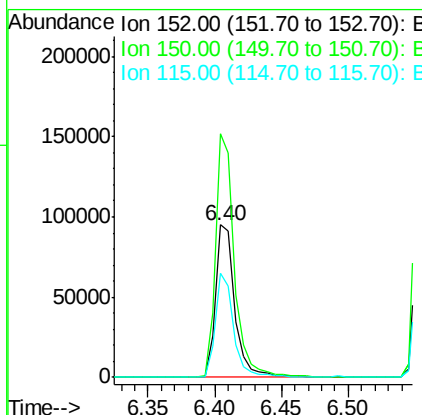
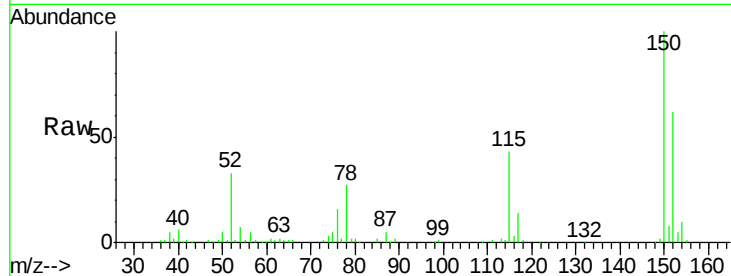


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.40 min Scan# 785  
 Delta R.T. -0.01 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

Instrument :  
 BNA\_F  
 ClientSampleId :

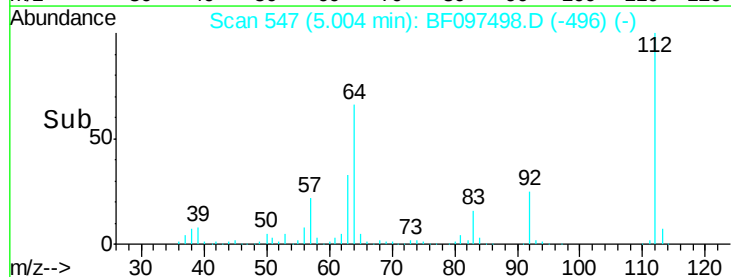
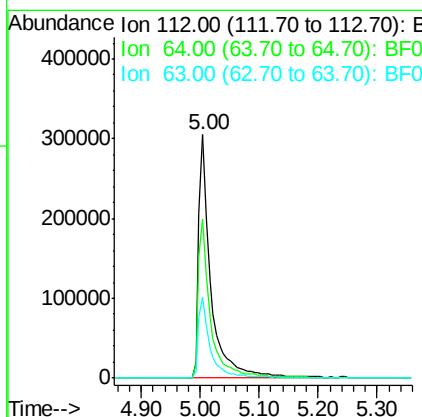
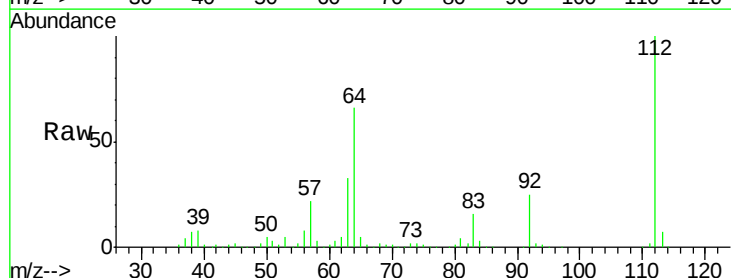
Tot Ion:152 Resp: 97626  
 Ion Ratio Lower Upper  
 152 100  
 150 160.1 126.2 189.2  
 115 68.2 52.2 78.2



#5

2-Fluorophenol  
 Concen: 67.70 ng  
 RT: 5.00 min Scan# 547  
 Delta R.T. 0.00 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

Tgt Ion:112 Resp: 438423  
 Ion Ratio Lower Upper  
 112 100  
 64 65.5 46.0 69.0  
 63 33.1 23.4 35.0





#7

Phenol-d6

Concen: 43.29 ng

RT: 6.08 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

Instrument :

BNA\_F

ClientSampleId :

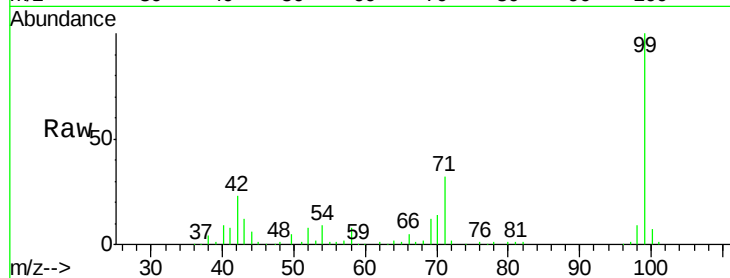
Tot Ion: 99 Resp: 320073

Ion Ratio Lower Upper

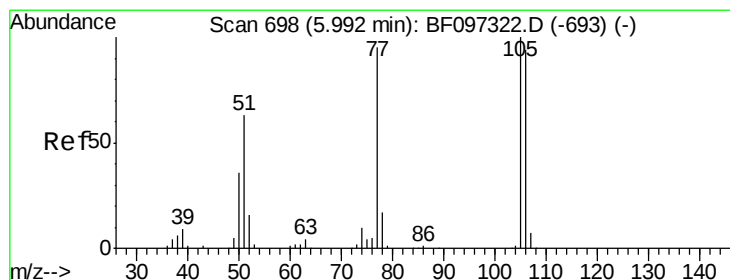
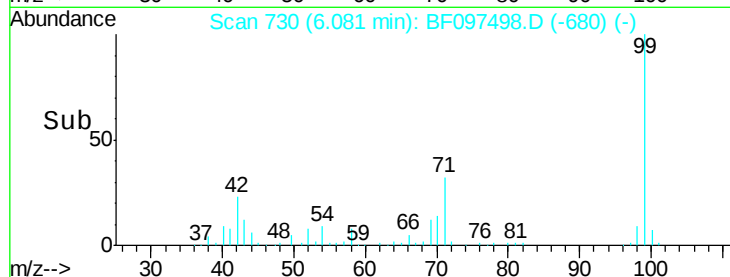
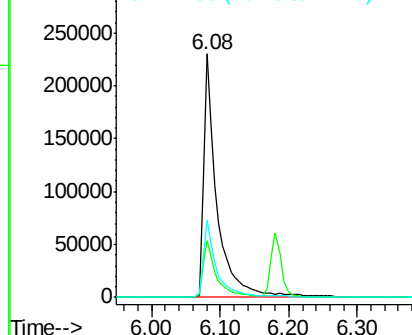
99 100

42 23.2 13.5 20.3#

71 31.8 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



#9

Benzaldehyde

Concen: 3.17 ng

RT: 6.18 min Scan# 747

Delta R.T. 0.22 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

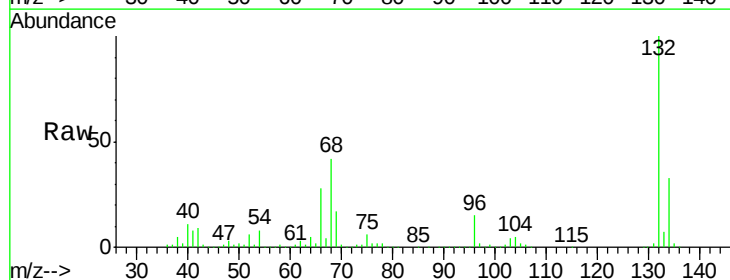
Tgt Ion: 77 Resp: 13878

Ion Ratio Lower Upper

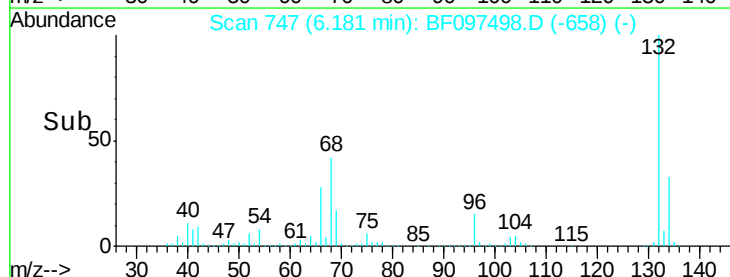
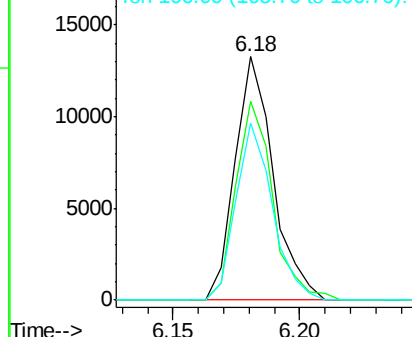
77 100

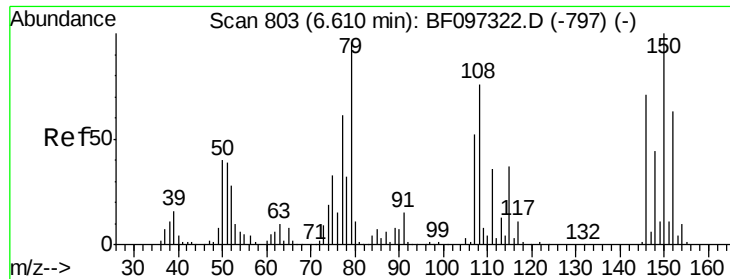
105 81.9 83.8 123.8#

106 72.8 79.1 119.1#



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

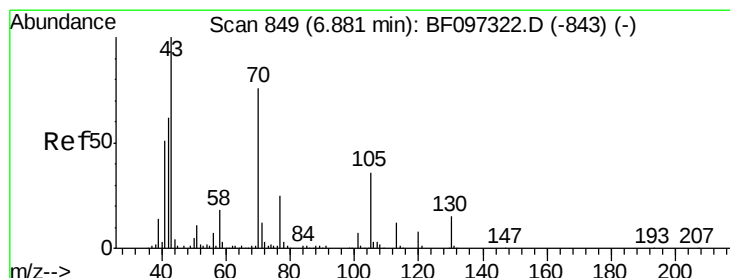
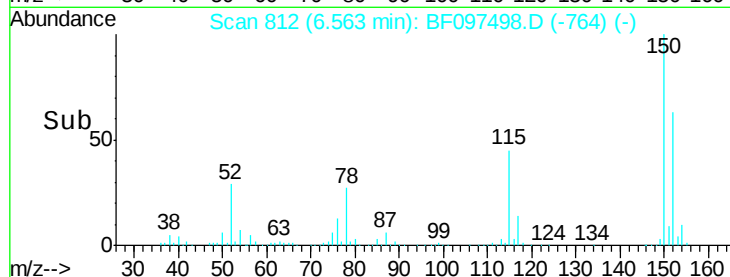
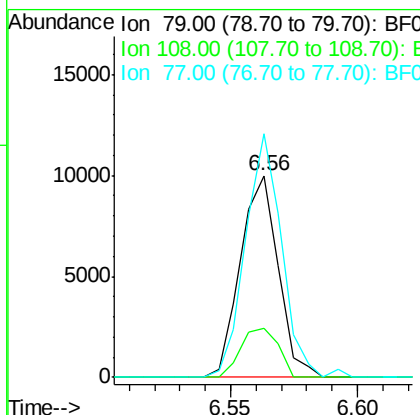
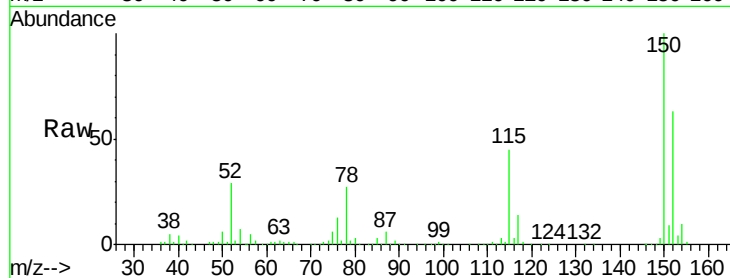




#15  
Benzyl Alcohol  
Concen: 2.22 ng  
RT: 6.56 min Scan# 812  
Delta R.T. -0.02 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

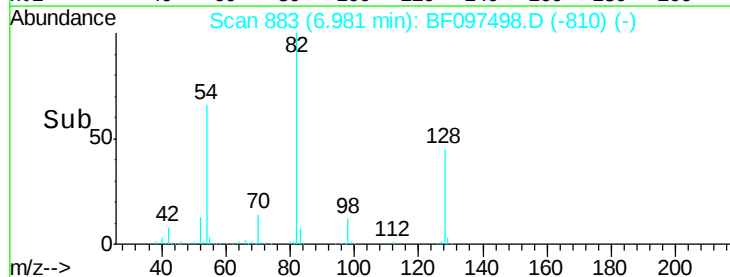
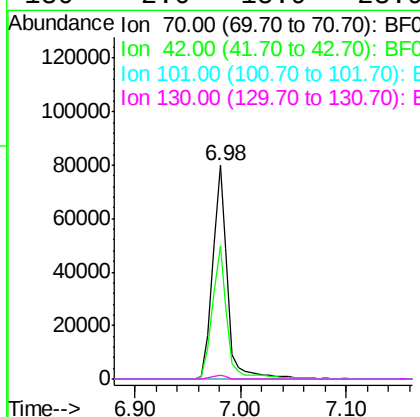
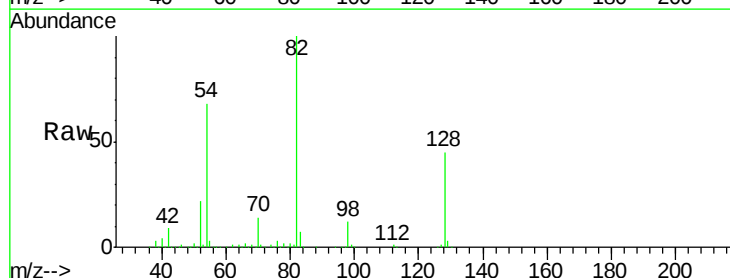
Instrument :  
BNA\_F  
ClientSampleId :

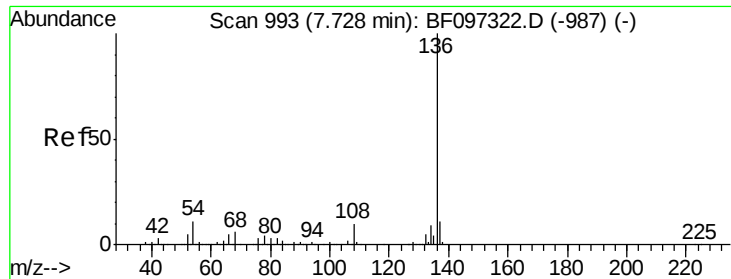
Tot Ion: 79 Resp: 10378  
Ion Ratio Lower Upper  
79 100  
108 24.3 63.4 95.0#  
77 120.9 49.2 73.8#



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.23 ng  
RT: 6.98 min Scan# 883  
Delta R.T. 0.13 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

Tgt Ion: 70 Resp: 78993  
Ion Ratio Lower Upper  
70 100  
42 62.2 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.0 15.9 23.9#

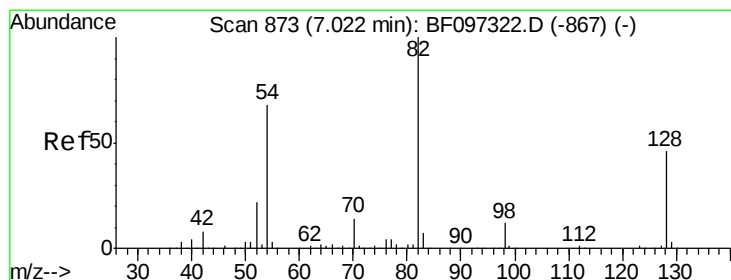
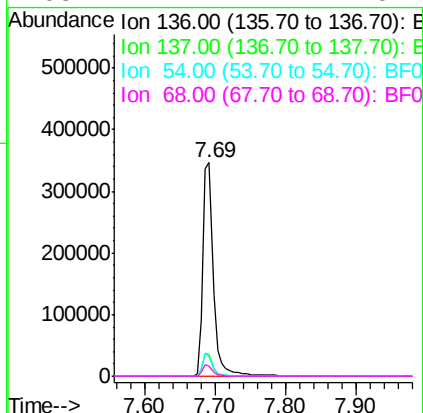
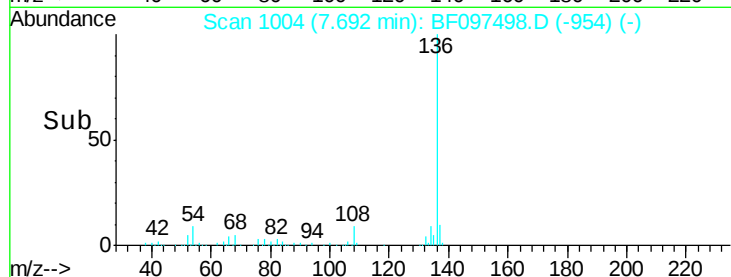
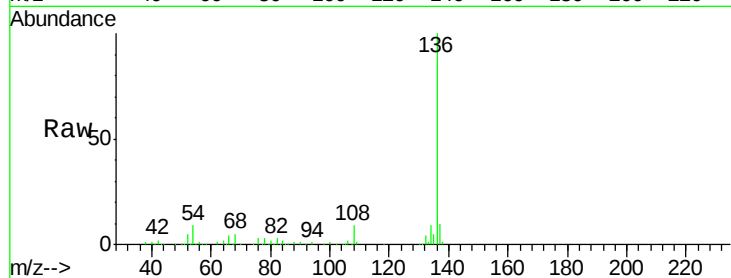




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.69 min Scan# 1004  
Delta R.T. -0.01 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

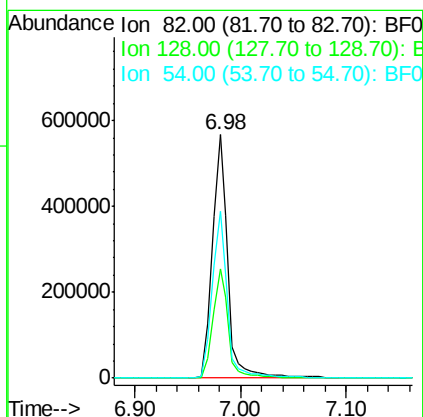
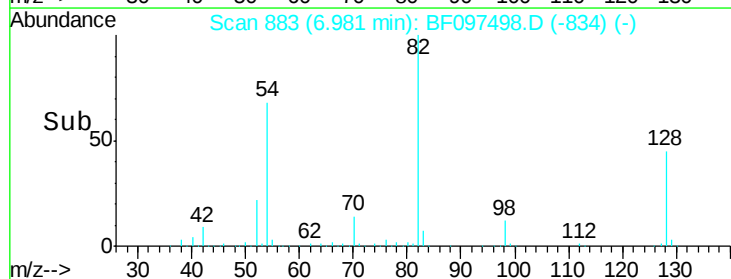
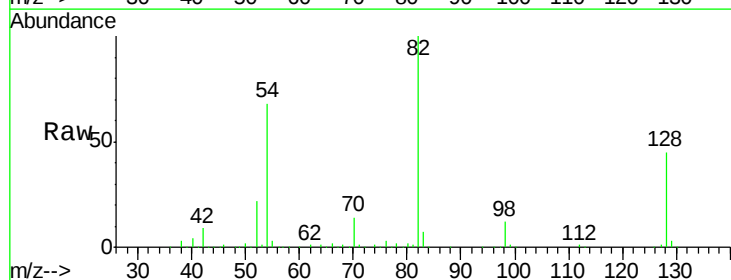
Instrument :  
BNA\_F  
ClientSampleId :

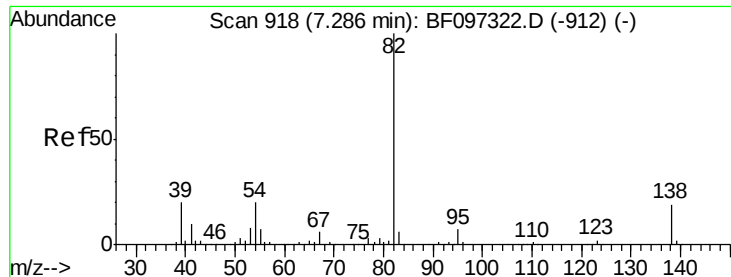
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 364921   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.3  | 8.5 12.7 |
| 54          | 9.2   | 4.9 7.3# |
| 68          | 4.7   | 4.1 6.1  |



#23  
Nitrobenzene-d5  
Concen: 94.62 ng  
RT: 6.98 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 588597     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 44.7  | 34.0 51.0  |
| 54          | 68.4  | 42.2 63.2# |





#25

Isophorone

Concen: 48.32 ng

RT: 6.98 min Scan# 883

Delta R.T. -0.27 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

Instrument :

BNA\_F

ClientSampleId :

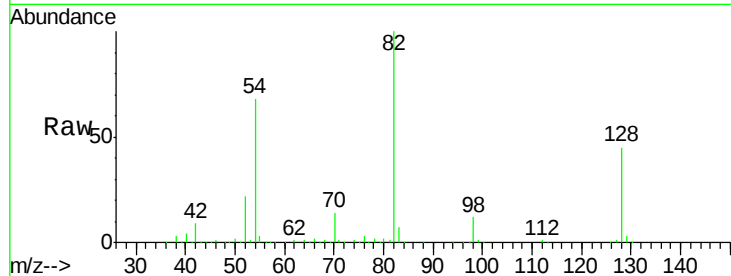
Tot Ion: 82 Resp: 588591

Ion Ratio Lower Upper

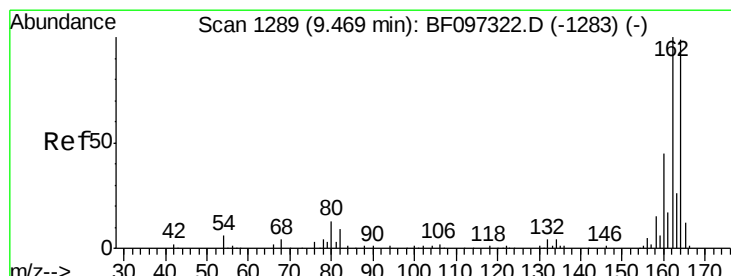
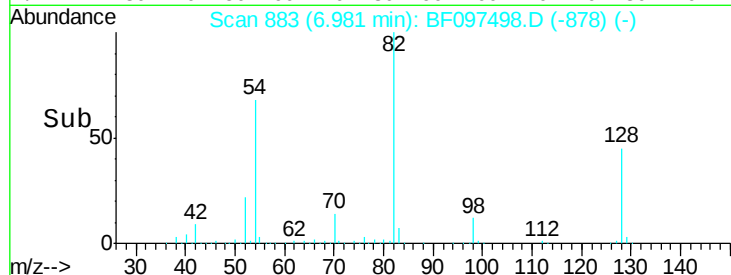
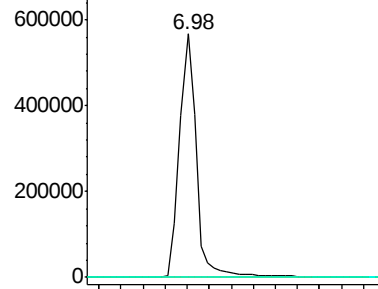
82 100

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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.43 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

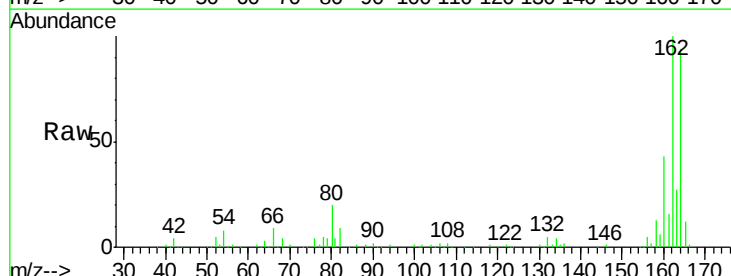
Tgt Ion:164 Resp: 154148

Ion Ratio Lower Upper

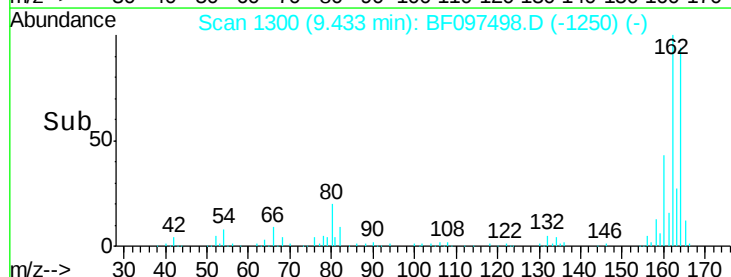
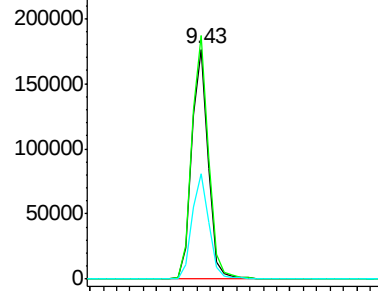
164 100

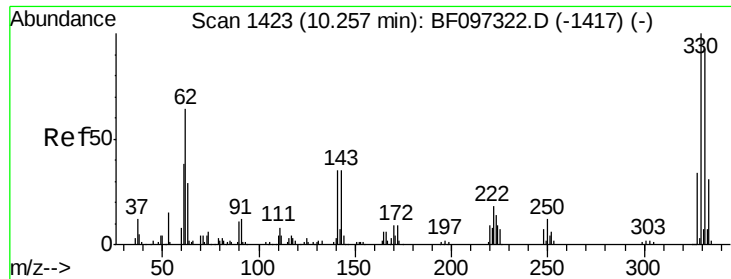
162 105.8 82.6 123.8

160 45.7 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

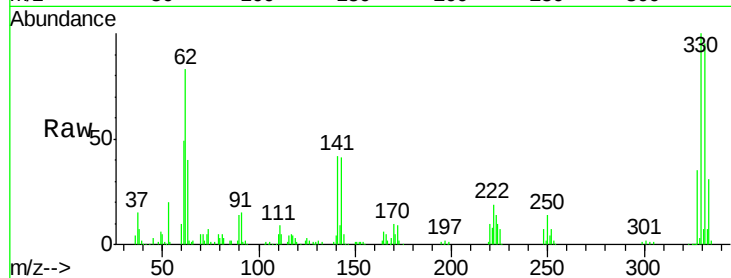




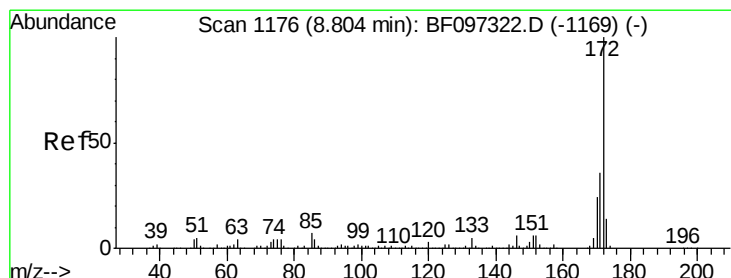
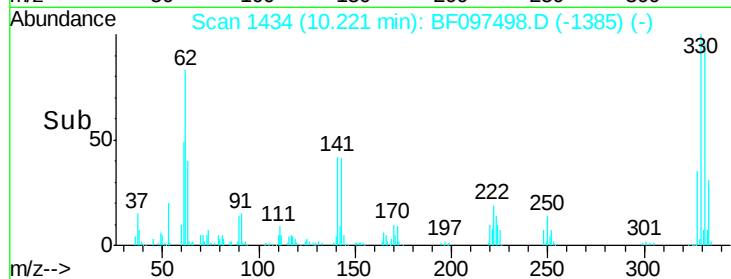
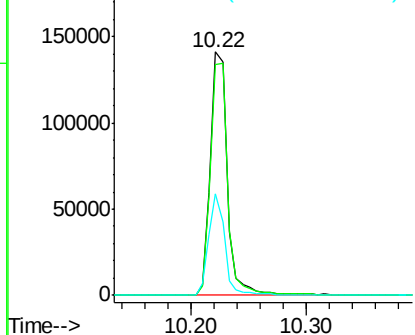
#41  
 2,4,6-Tribromophenol  
 Concen: 119.88 ng  
 RT: 10.22 min Scan# 1434  
 Delta R.T. -0.01 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 76.6  | 115.0 |
| 141     | 39.8  | 31.4  | 47.2  |

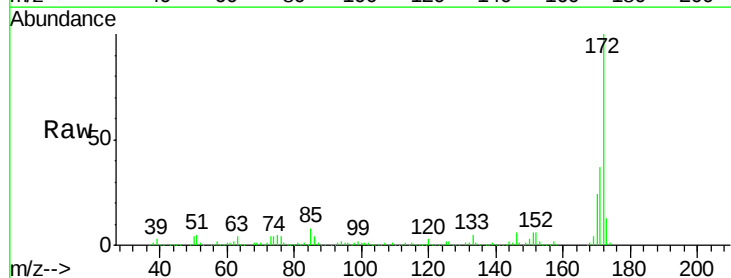


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

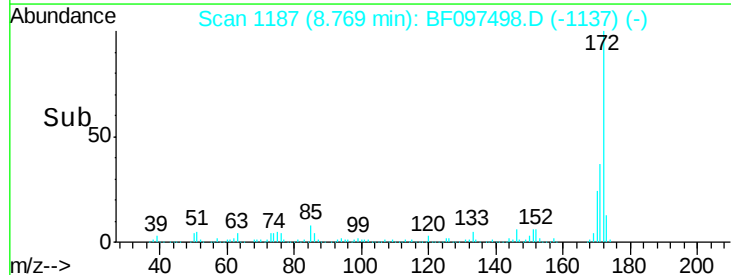
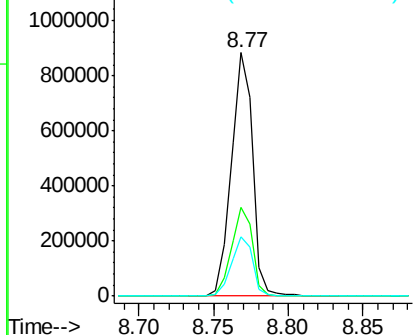


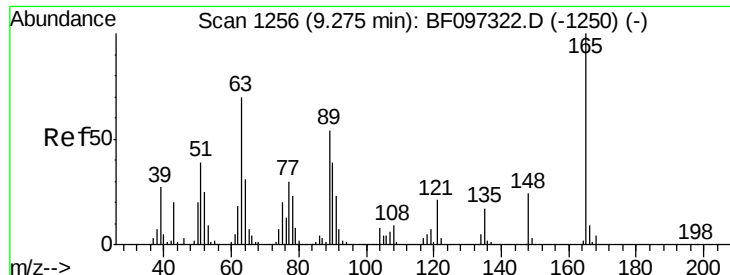
#44  
 2-Fluorobiphenyl  
 Concen: 98.33 ng  
 RT: 8.77 min Scan# 1187  
 Delta R.T. -0.01 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.6  | 44.4  |
| 170     | 24.3  | 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

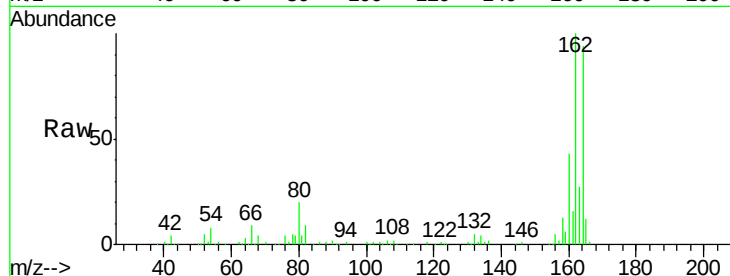




#50  
 2,6-Dinitrotoluene  
 Concen: 7.98 ng  
 RT: 9.43 min Scan# 1300  
 Delta R.T. 0.18 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

Instrument :  
 BNA\_F  
 ClientSampleId :

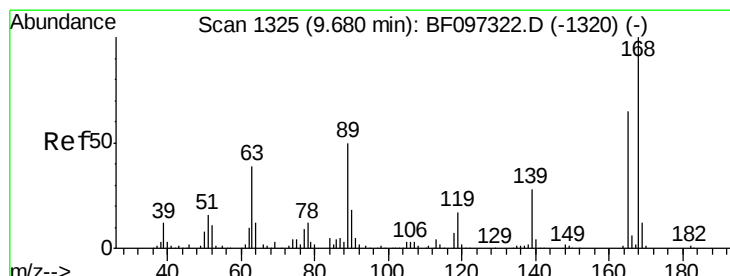
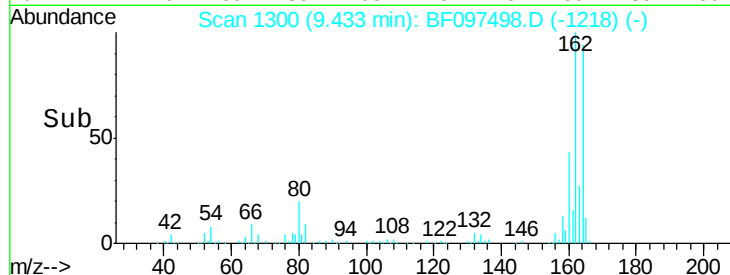
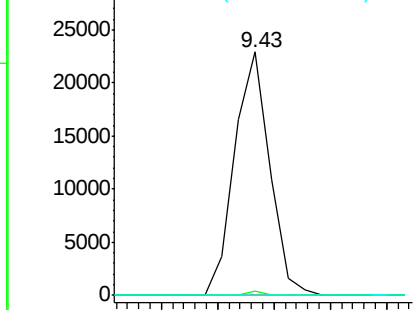
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 34.3  | 51.5# |
| 89      | 0.0   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

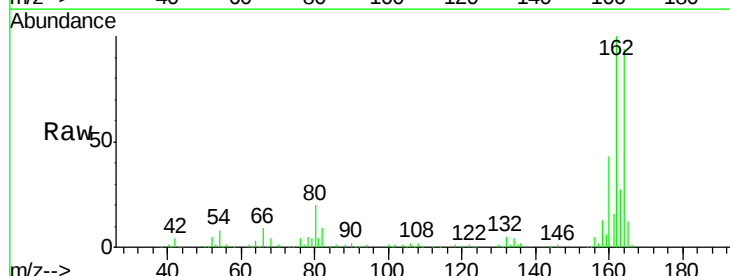
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.94 ng  
 RT: 9.43 min Scan# 1300  
 Delta R.T. -0.23 min  
 Lab File: BF097498.D  
 Acq: 9 Aug 2017 5:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 25.4  | 38.0# |
| 89      | 0.0   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

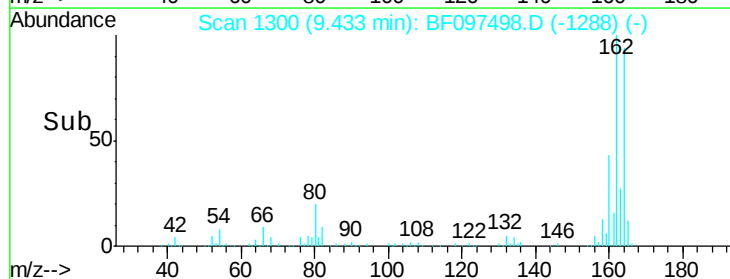
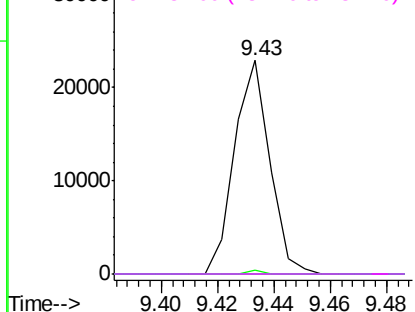


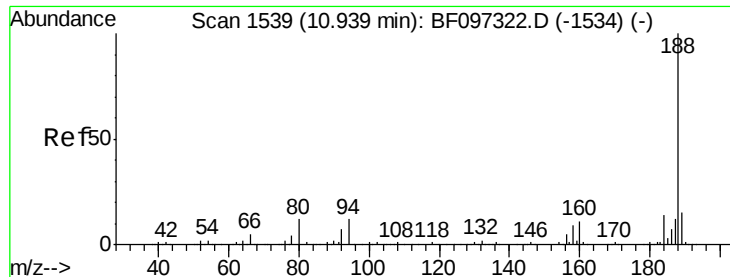
Abundance Ion 165.00 (164.70 to 165.70): E

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

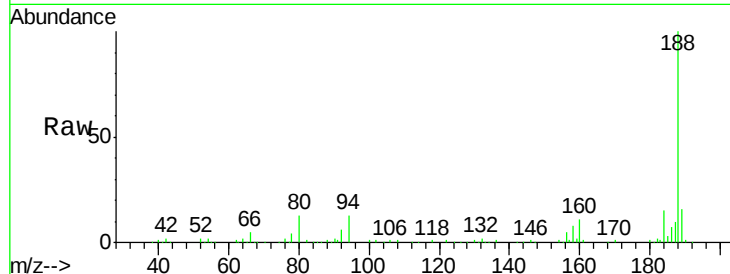




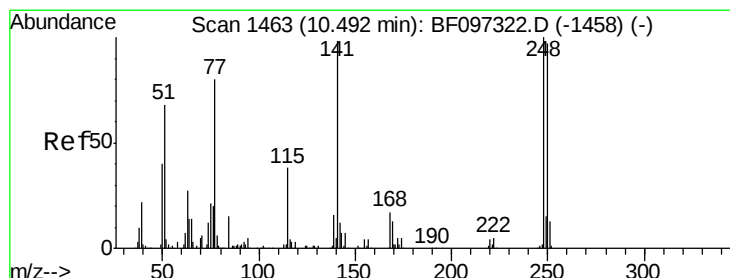
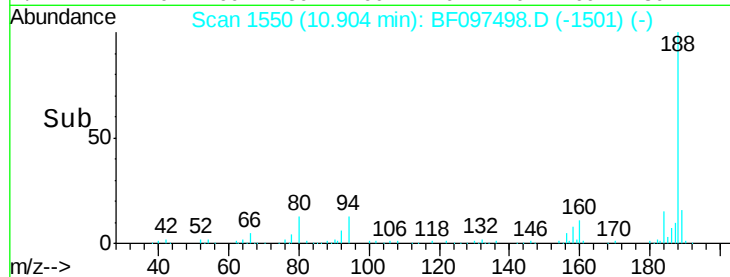
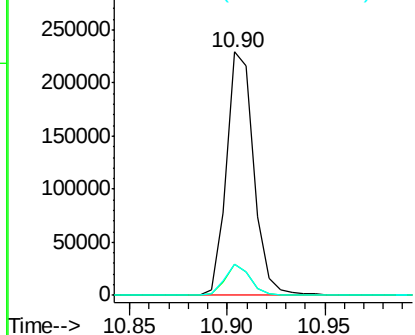
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 10.90 min Scan# 1550  
Delta R.T. -0.01 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 222891  
Ion Ratio Lower Upper  
188 100  
94 12.7 9.4 14.2  
80 12.7 10.2 15.2

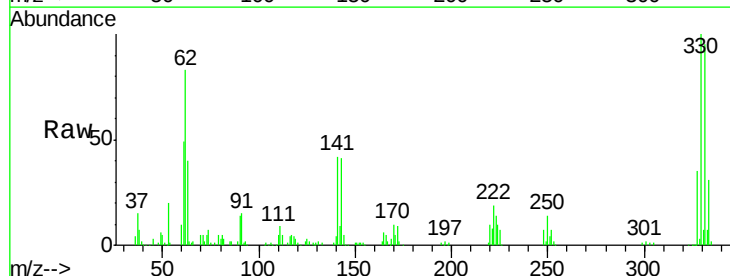


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

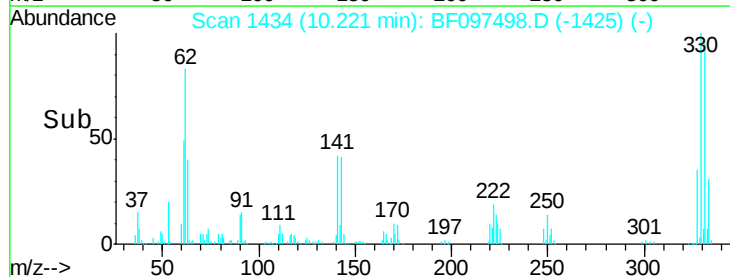
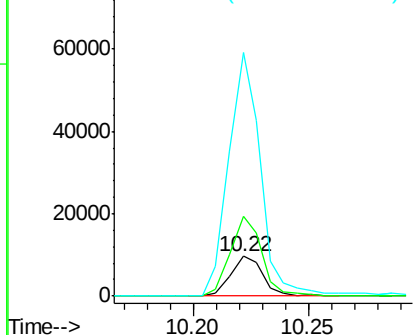


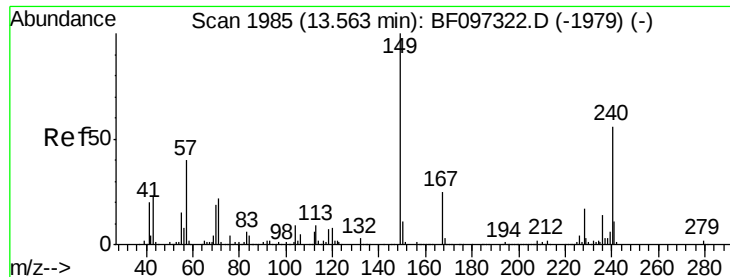
#66  
4-Bromophenyl-phenylether  
Concen: 4.19 ng  
RT: 10.22 min Scan# 1434  
Delta R.T. -0.25 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

Tgt Ion:248 Resp: 9320  
Ion Ratio Lower Upper  
248 100  
250 200.2 76.8 115.2#  
141 611.6 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: 20.00 ng

RT: 13.53 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

Instrument :

BNA\_F

ClientSampleId :

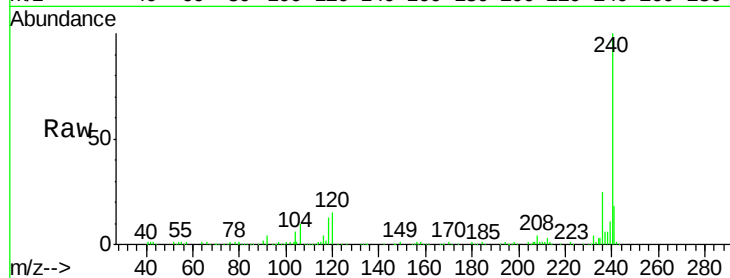
Tot Ion:240 Resp: 190371

Ion Ratio Lower Upper

240 100

120 14.5 5.8 8.8#

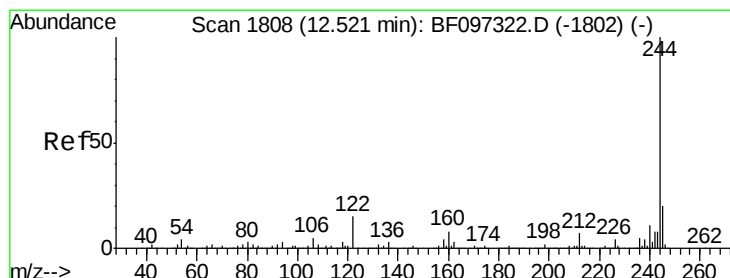
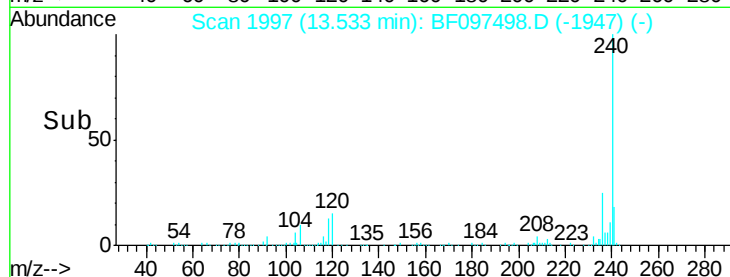
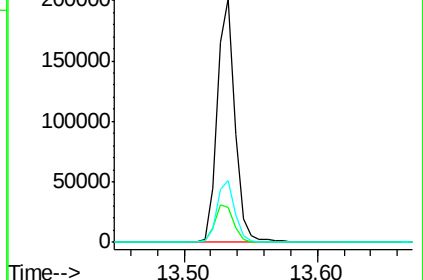
236 25.4 20.5 30.7



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: 67.32 ng

RT: 12.49 min Scan# 1820

Delta R.T. -0.01 min

Lab File: BF097498.D

Acq: 9 Aug 2017 5:06

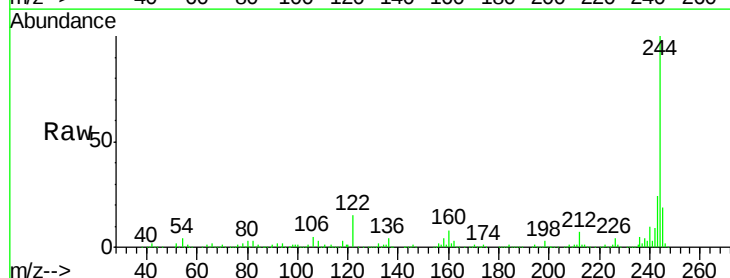
Tgt Ion:244 Resp: 628606

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

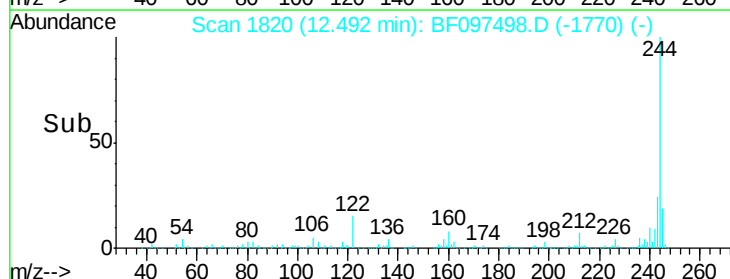
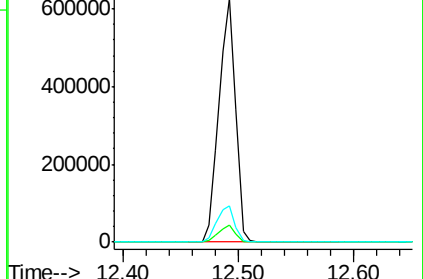
122 14.9 10.3 15.5

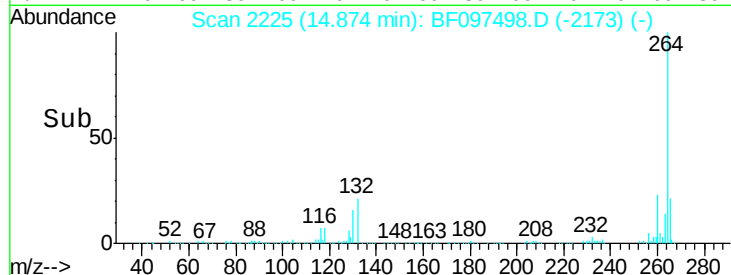
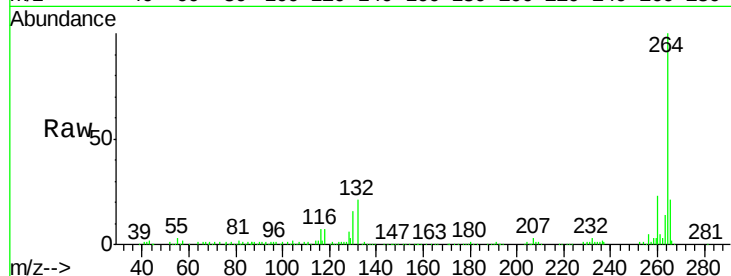
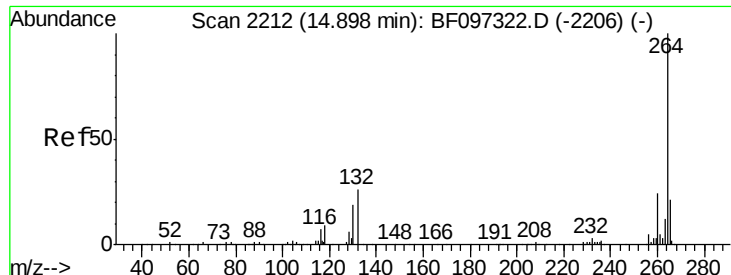


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.87 min Scan# 2225  
Delta R.T. 0.01 min  
Lab File: BF097498.D  
Acq: 9 Aug 2017 5:06

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 143870 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.5  | 19.5  | 29.3   |
| 265      | 20.5  | 17.2  | 25.8   |

