

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\  
 Data File : BF097304.D  
 Acq On : 3 Aug 2017 7:21  
 Operator : SJ/JU  
 Sample : I4537-03  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 03 11:58:45 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 14:11:51 2017  
 Response via : Initial Calibration

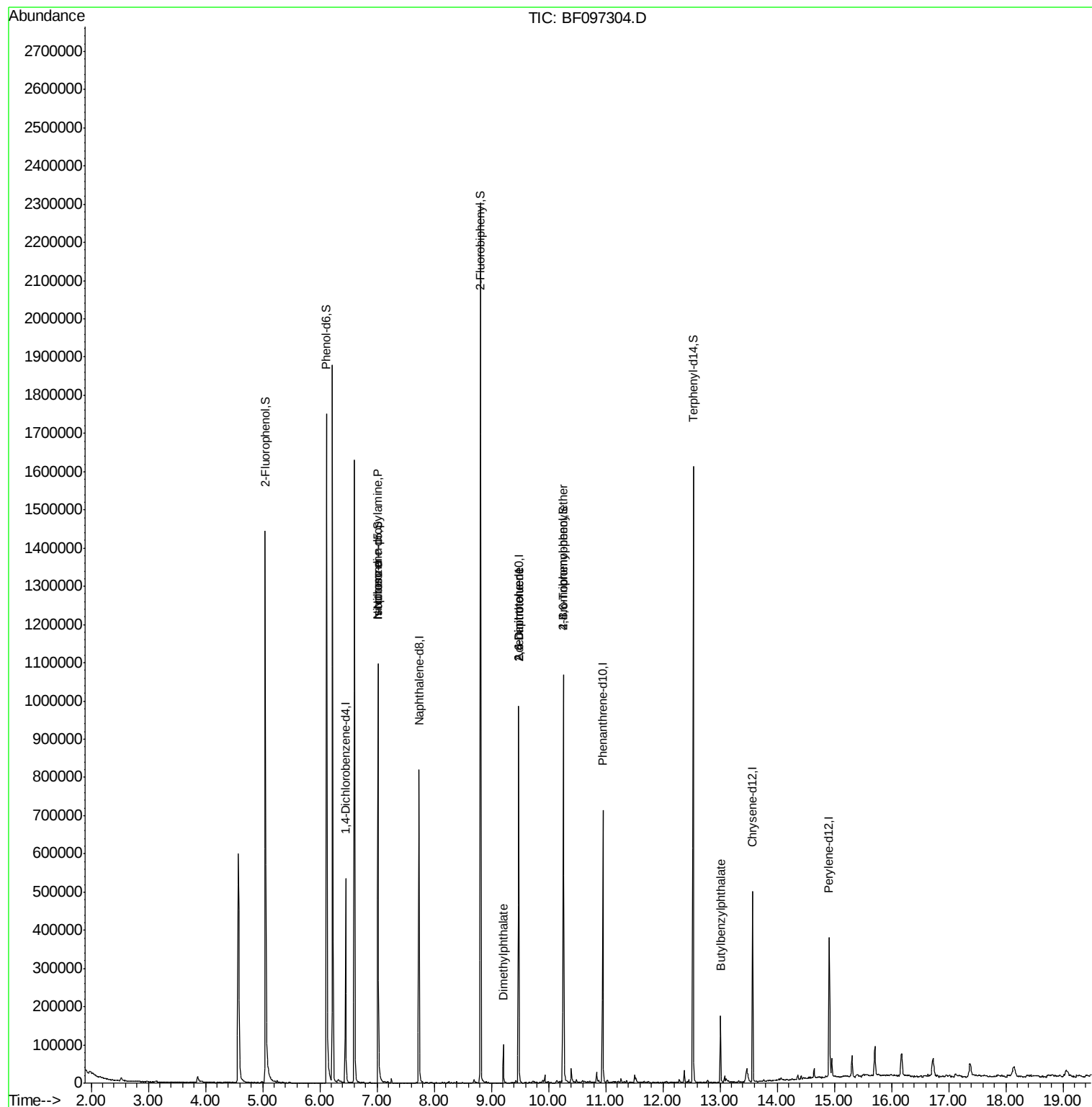
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.45  | 152  | 86470    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.73  | 136  | 380193   | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.47  | 164  | 185048   | 20.00  | ng    | -0.06    |
| 63) Phenanthrene-d10           | 10.95 | 188  | 267952   | 20.00  | ng    | -0.05    |
| 75) Chrysene-d12               | 13.57 | 240  | 168882   | 20.00  | ng    | -0.06    |
| 86) Perylene-d12               | 14.91 | 264  | 153403   | 20.00  | ng    | -0.06    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.05  | 112  | 479728   | 83.63  | ng    | -0.05    |
| 7) Phenol-d6                   | 6.12  | 99   | 642650   | 98.14  | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.02  | 82   | 364180   | 56.19  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.26 | 330  | 112221   | 76.76  | ng    | -0.06    |
| 44) 2-Fluorobiphenyl           | 8.81  | 172  | 710652   | 65.17  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.53 | 244  | 502265   | 60.64  | ng    | -0.05    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.02  | 70   | 48184    | 11.179 | ng    | # 85     |
| 25) Isophorone                 | 7.02  | 82   | 352216   | 27.751 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.21  | 163  | 38681    | 2.753  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.47  | 165  | 23132    | 7.761  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.47  | 165  | 23132    | 6.752  | ng    | # 34     |
| 66) 4-Bromophenyl-phenylether  | 10.26 | 248  | 6901     | 2.581  | ng    | # 1      |
| 79) Butylbenzylphthalate       | 13.01 | 149  | 36661    | 5.213  | ng    | # 84     |

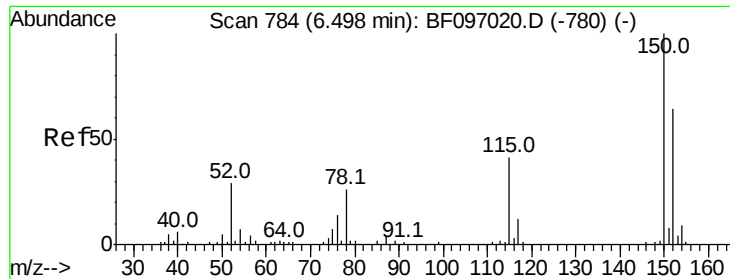
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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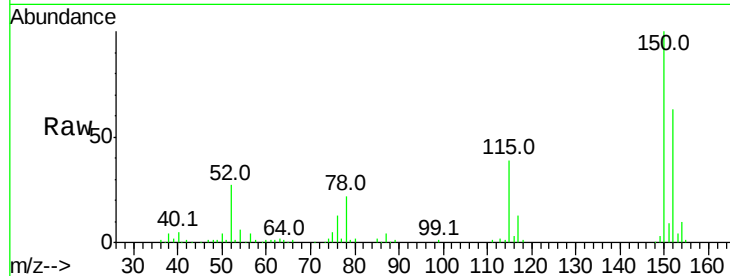


#1

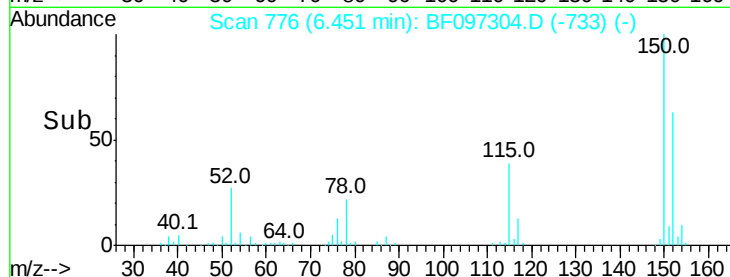
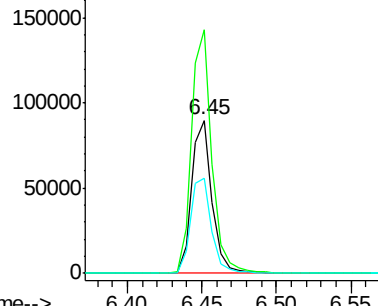
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.45 min Scan# 776  
Delta R.T. -0.05 min  
Lab File: BF097304.D  
Acq: 3 Aug 2017 7:21

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 86470  
Ion Ratio Lower Upper  
152 100  
150 158.8 126.2 189.2  
115 62.0 52.2 78.2



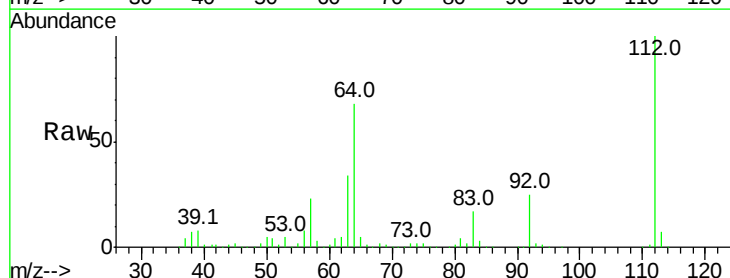
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



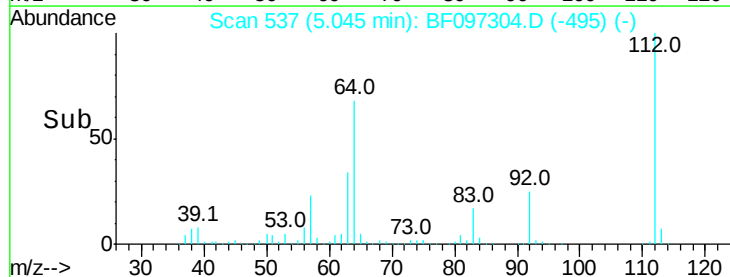
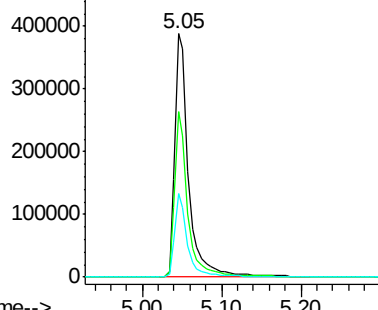
#5

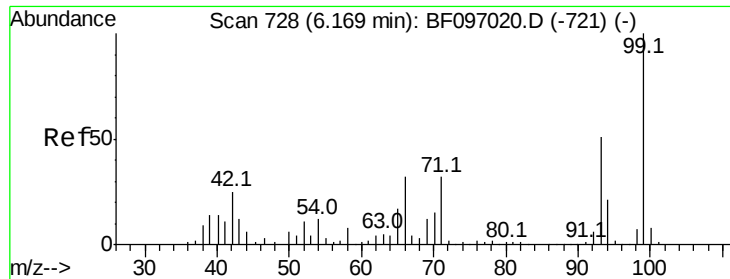
2-Fluorophenol  
Concen: 83.634 ng  
RT: 5.05 min Scan# 537  
Delta R.T. -0.05 min  
Lab File: BF097304.D  
Acq: 3 Aug 2017 7:21

Tgt Ion:112 Resp: 479728  
Ion Ratio Lower Upper  
112 100  
64 68.0 46.0 69.0  
63 34.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.139 ng

RT: 6.12 min Scan# 719

Delta R.T. -0.05 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

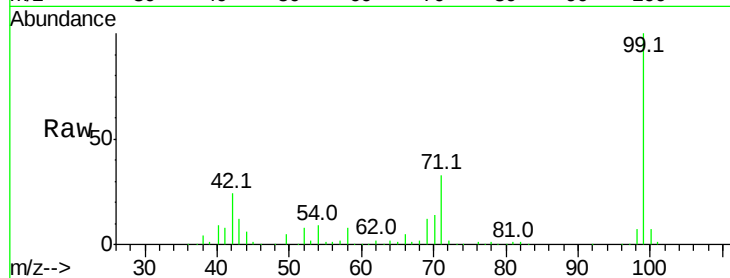
Instrument :

BNA\_F

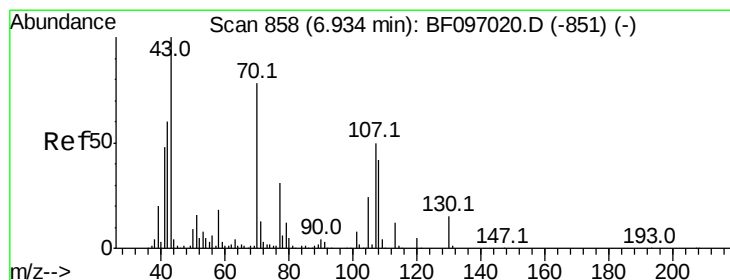
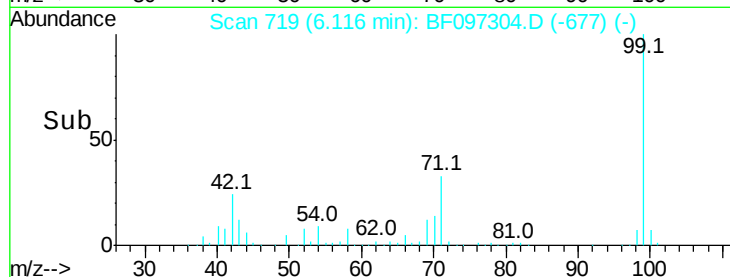
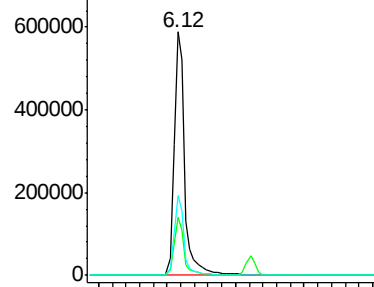
ClientSampleId :

Tot Ion: 99 Resp: 642650

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 24.0  | 13.5  | 20.3# |
| 71  | 32.6  | 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: 11.179 ng

RT: 7.02 min Scan# 873

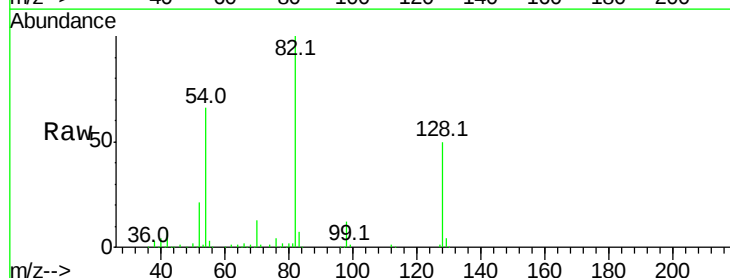
Delta R.T. 0.09 min

Lab File: BF097304.D

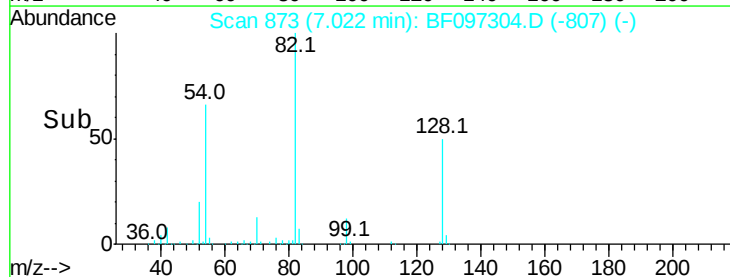
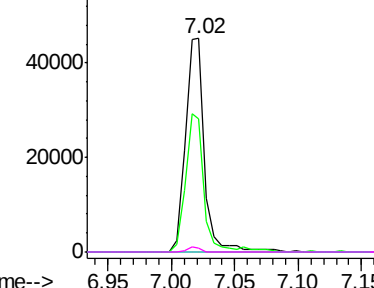
Acq: 3 Aug 2017 7:21

Tgt Ion: 70 Resp: 48184

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 62.6  | 47.2  | 70.8  |
| 101 | 0.0   | 7.2   | 10.8# |
| 130 | 1.9   | 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: 7.73 min Scan# 994

Delta R.T. -0.05 min

Lab File: BF097304.D

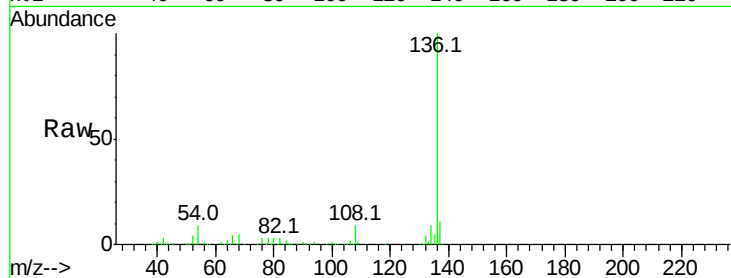
Acq: 3 Aug 2017 7:21

Instrument :

BNA\_F

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 380193 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.5   | 12.7   |
| 54       | 9.3   | 4.9   | 7.3#   |
| 68       | 4.7   | 4.1   | 6.1    |

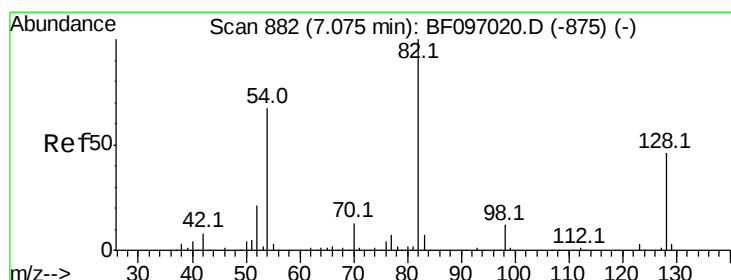
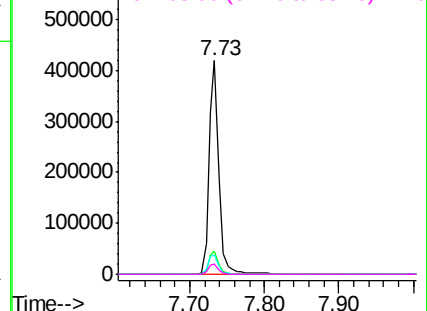
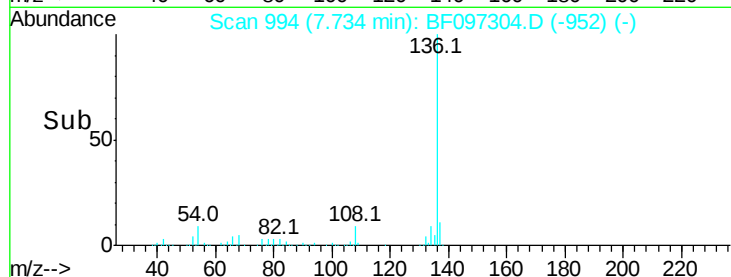


Abundance Ion 136.00 (135.70 to 136.70): E

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: 56.193 ng

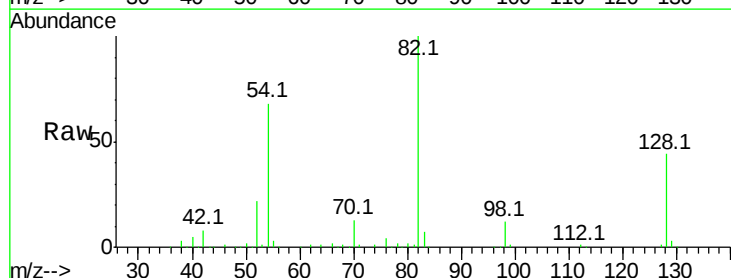
RT: 7.02 min Scan# 872

Delta R.T. -0.06 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

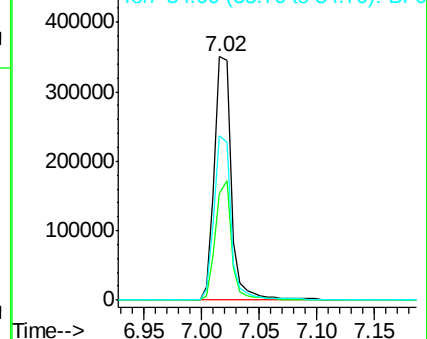
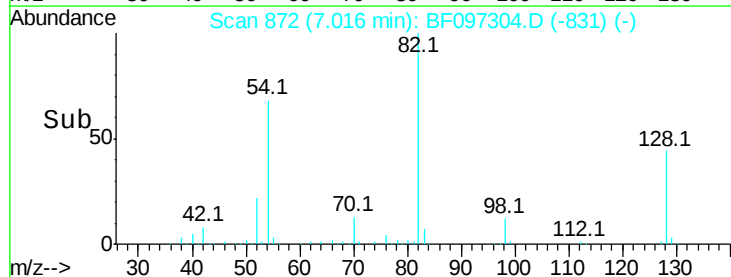
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 364180 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.9  | 34.0  | 51.0   |
| 54       | 67.7  | 42.2  | 63.2#  |

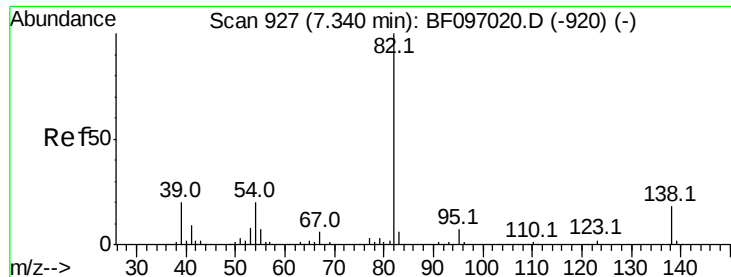


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

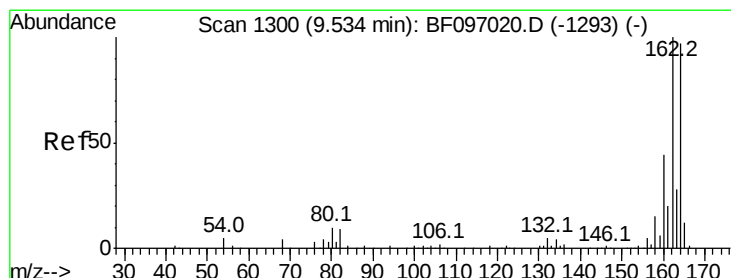
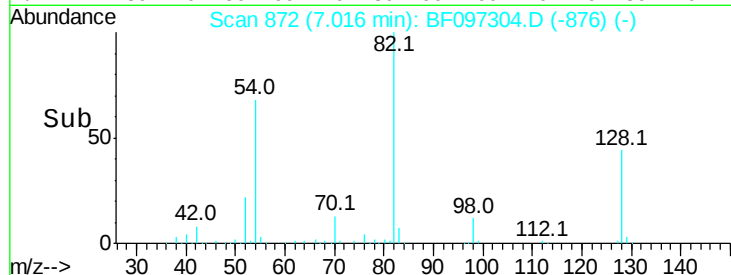
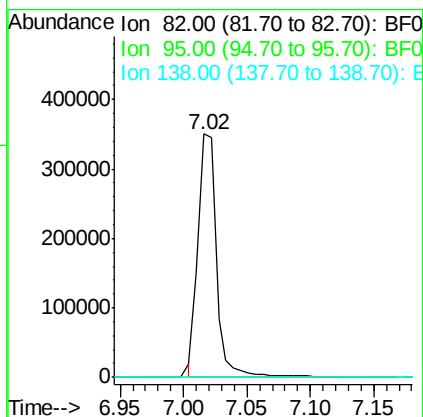
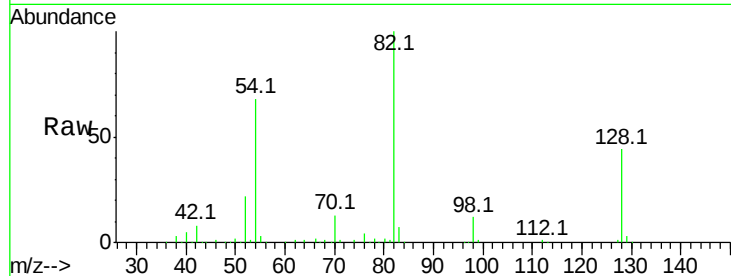




#25  
Isophorone  
Concen: 27.751 ng  
RT: 7.02 min Scan# 872  
Delta R.T. -0.32 min  
Lab File: BF097304.D  
Acq: 3 Aug 2017 7:21

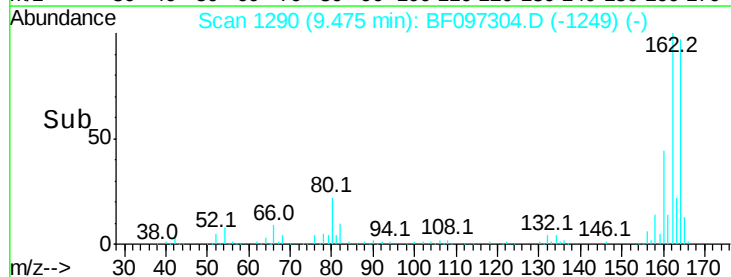
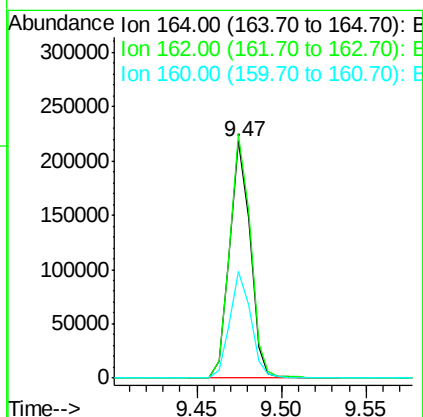
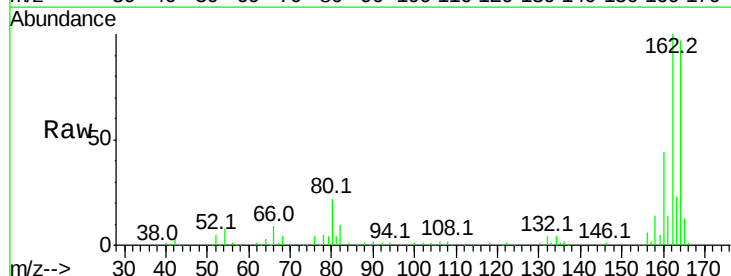
Instrument :  
BNA\_F  
ClientSampled :

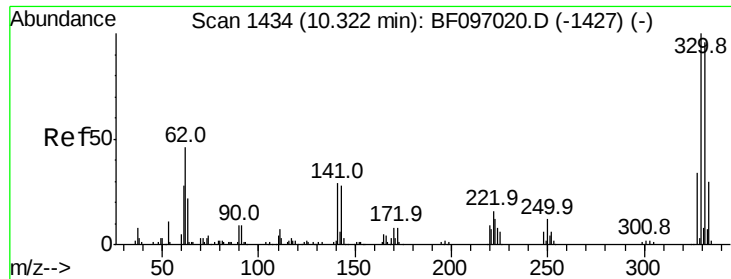
Tot Ion: 82 Resp: 352216  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.3 7.9#  
138 0.0 13.1 19.7#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.47 min Scan# 1290  
Delta R.T. -0.06 min  
Lab File: BF097304.D  
Acq: 3 Aug 2017 7:21

Tgt Ion:164 Resp: 185048  
Ion Ratio Lower Upper  
164 100  
162 102.7 82.6 123.8  
160 45.1 36.2 54.2

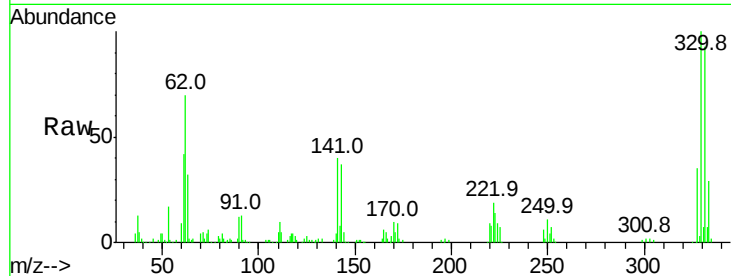




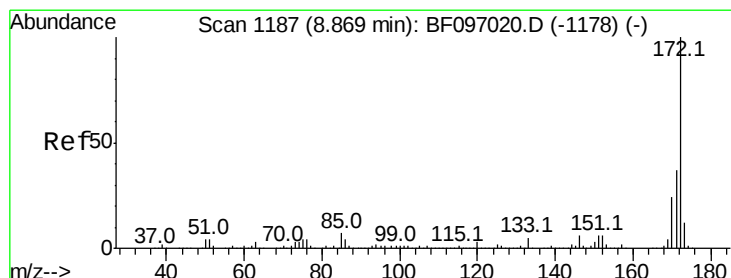
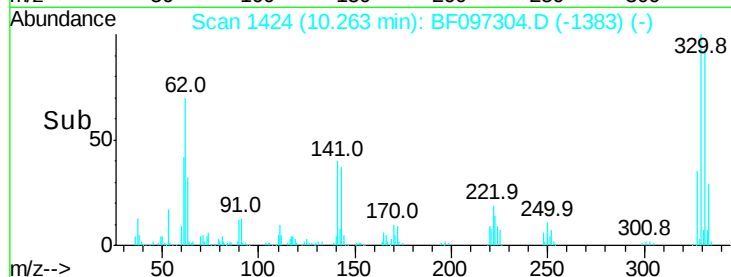
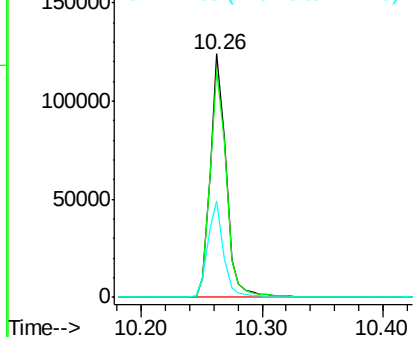
#41  
 2,4,6-Tribromophenol  
 Concen: 76.756 ng  
 RT: 10.26 min Scan# 1424  
 Delta R.T. -0.06 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 112221  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 76.6 115.0  
 141 40.0 31.4 47.2

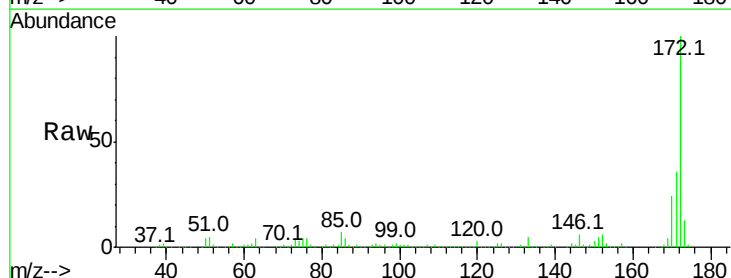


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

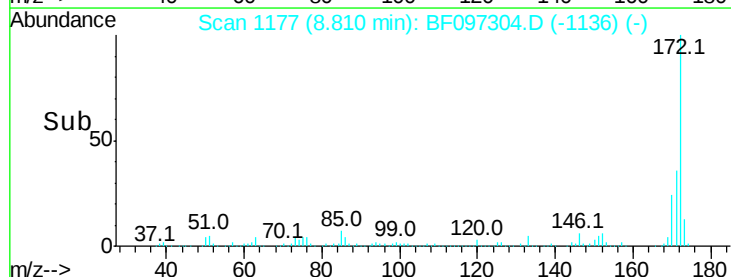
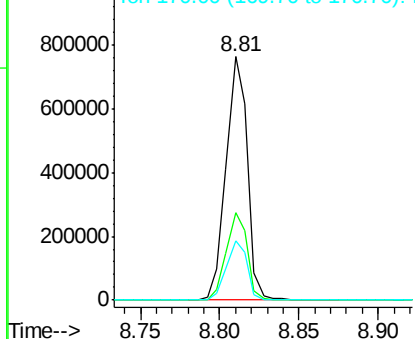


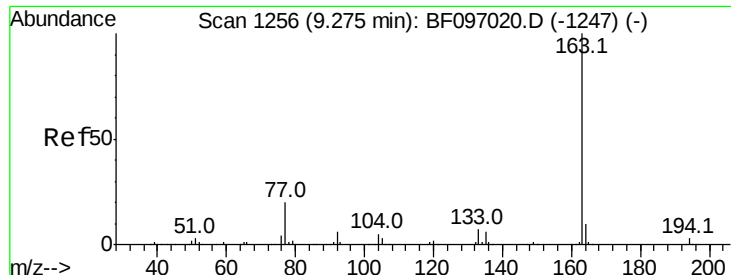
#44  
 2-Fluorobiphenyl  
 Concen: 65.175 ng  
 RT: 8.81 min Scan# 1177  
 Delta R.T. -0.06 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

Tgt Ion:172 Resp: 710652  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.6 44.4  
 170 24.1 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: 2.753 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.06 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

Instrument :

BNA\_F

ClientSampleId :

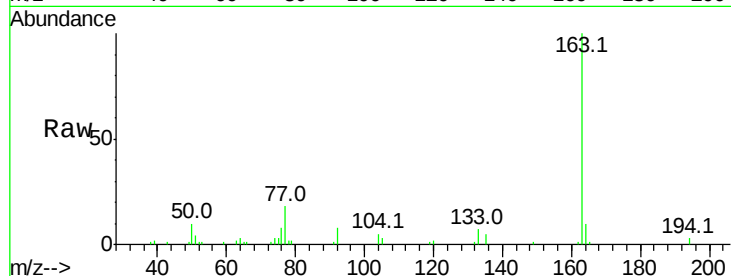
Tot Ion:163 Resp: 38681

Ion Ratio Lower Upper

163 100

194 2.7 2.6 4.0

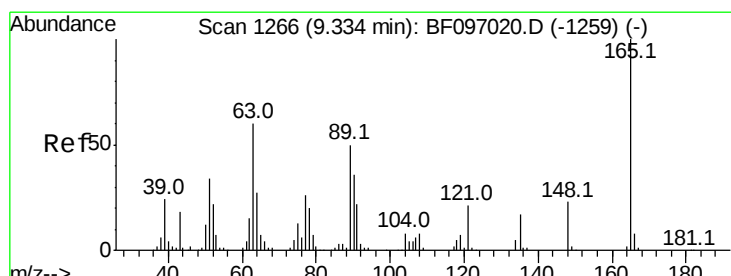
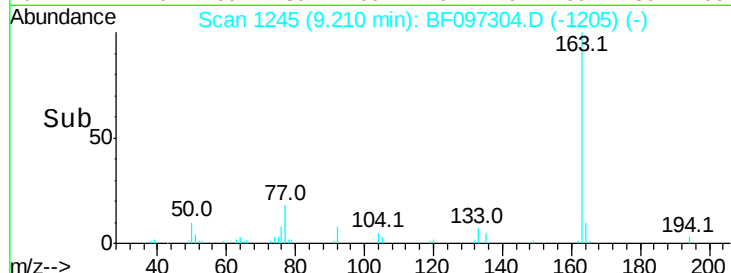
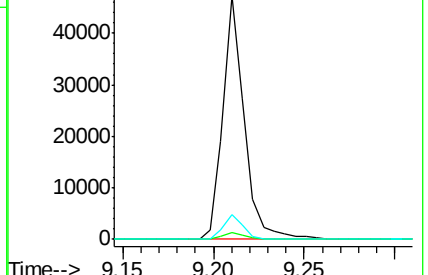
164 9.9 8.4 12.6



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: 7.761 ng

RT: 9.47 min Scan# 1290

Delta R.T. 0.14 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

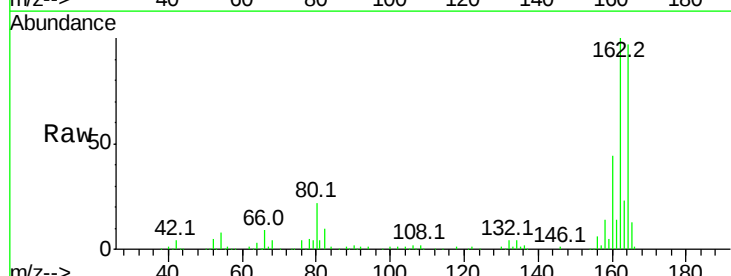
Tgt Ion:165 Resp: 23132

Ion Ratio Lower Upper

165 100

63 1.9 34.3 51.5#

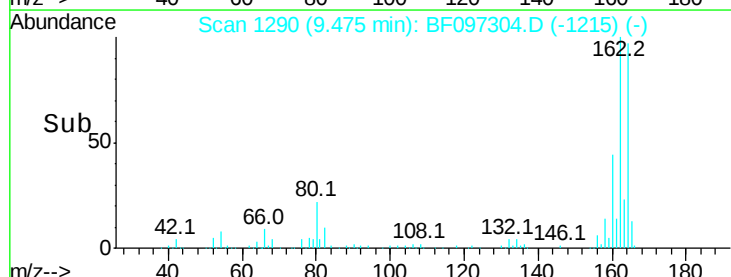
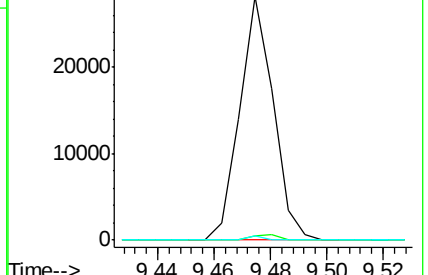
89 1.9 37.1 55.7#



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

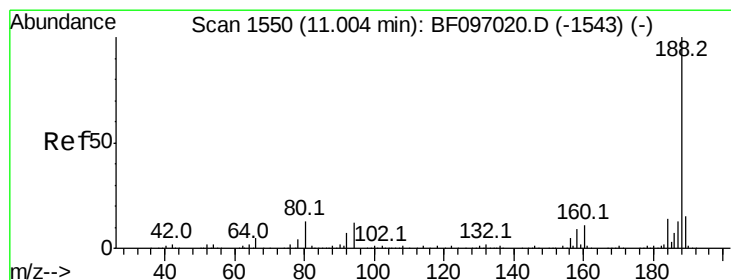
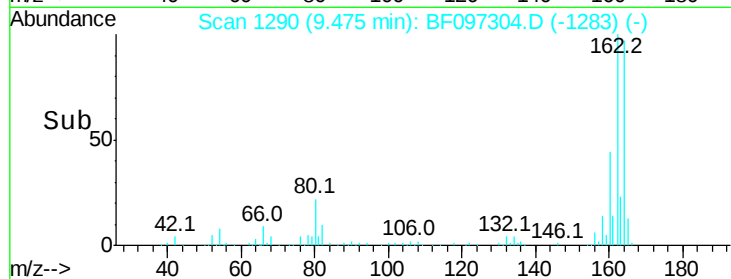
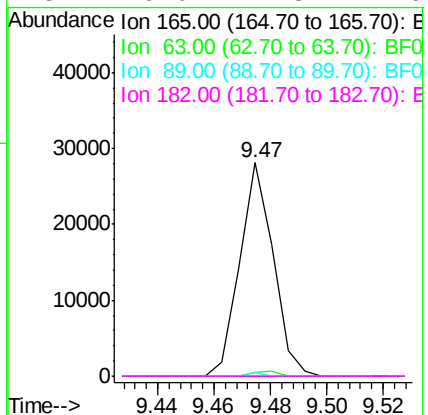
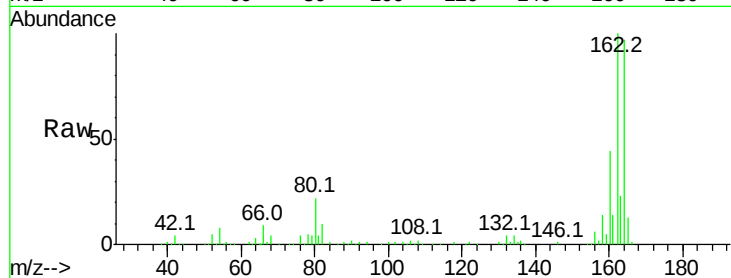




#56  
 2,4-Dinitrotoluene  
 Concen: 6.752 ng  
 RT: 9.47 min Scan# 1290  
 Delta R.T. -0.26 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

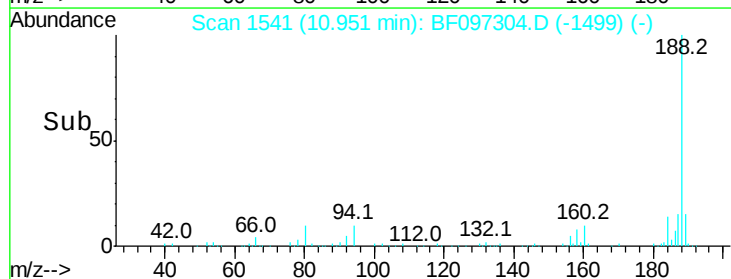
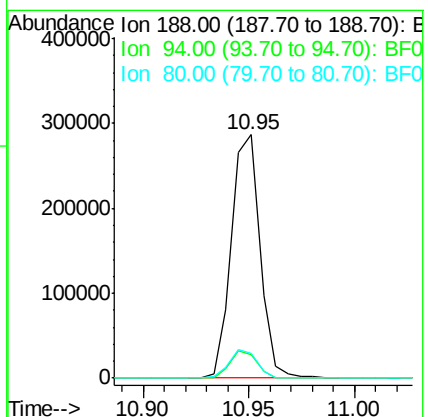
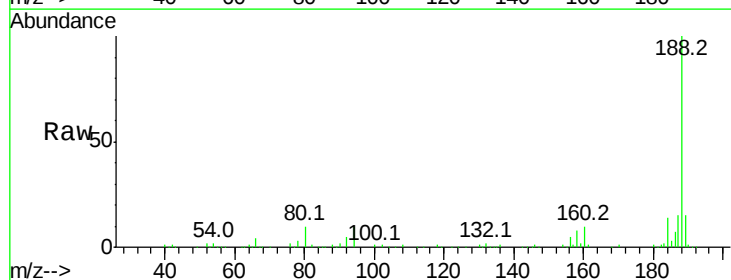
Instrument :  
 BNA\_F  
 ClientSampleId :

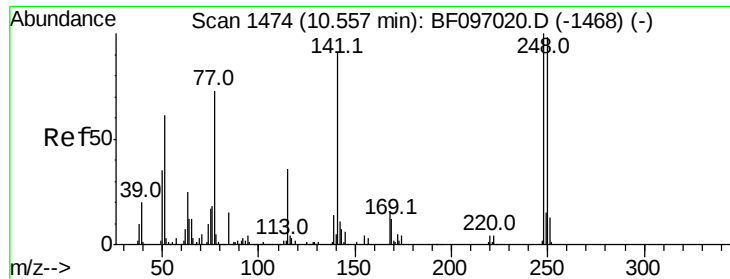
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 25.4  | 38.0# |
| 89      | 1.9   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 10.95 min Scan# 1541  
 Delta R.T. -0.05 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 9.4   | 14.2  |
| 80      | 10.0  | 10.2  | 15.2# |

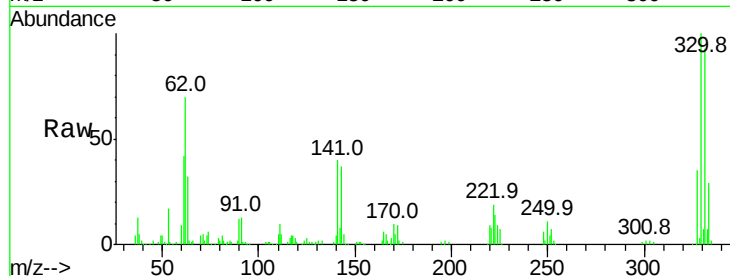




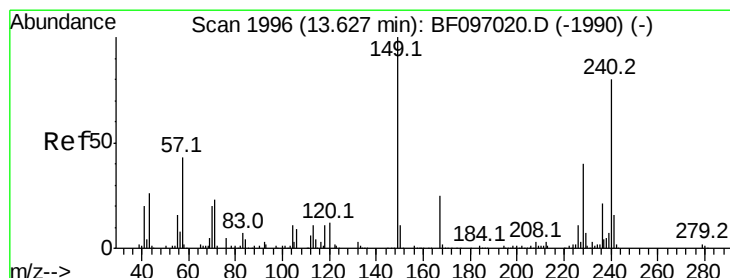
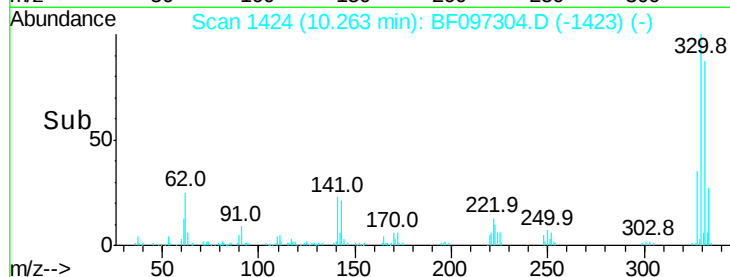
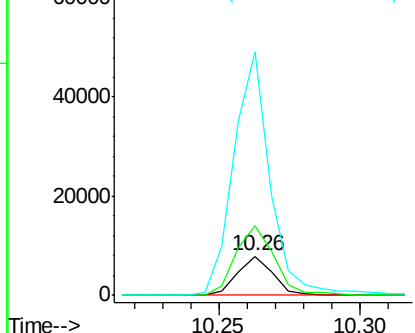
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.581 ng  
 RT: 10.26 min Scan# 1424  
 Delta R.T. -0.29 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 6901  
 Ion Ratio Lower Upper  
 248 100  
 250 177.9 76.8 115.2#  
 141 620.4 68.6 103.0#

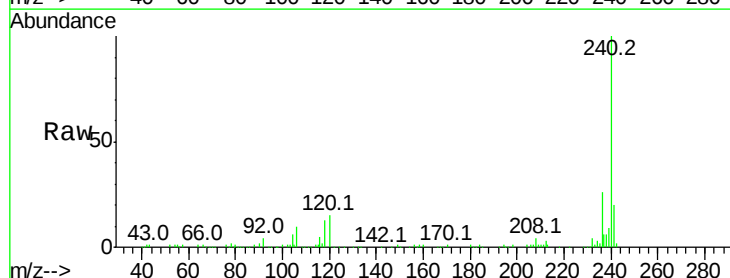


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

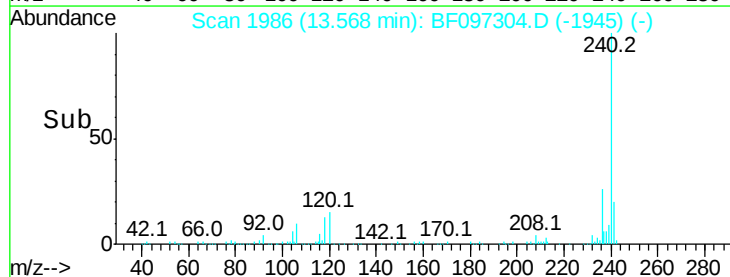
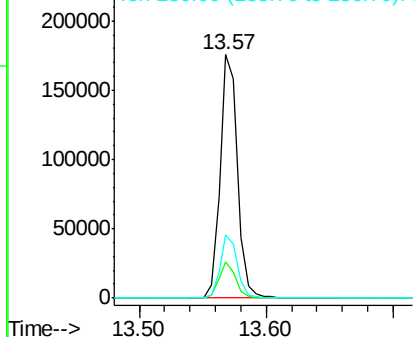


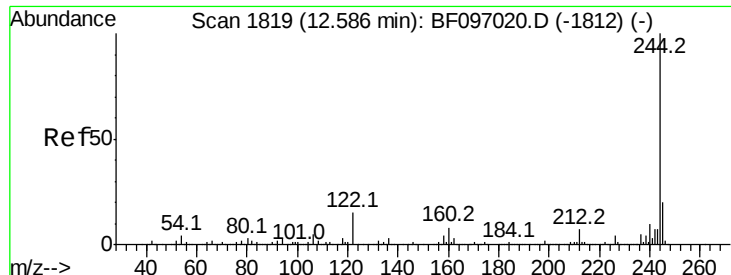
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.57 min Scan# 1986  
 Delta R.T. -0.06 min  
 Lab File: BF097304.D  
 Acq: 3 Aug 2017 7:21

Tgt Ion:240 Resp: 168882  
 Ion Ratio Lower Upper  
 240 100  
 120 15.1 5.8 8.8#  
 236 26.0 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: 60.637 ng

RT: 12.53 min Scan# 1810

Delta R.T. -0.05 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

Instrument :

BNA\_F

ClientSampleId :

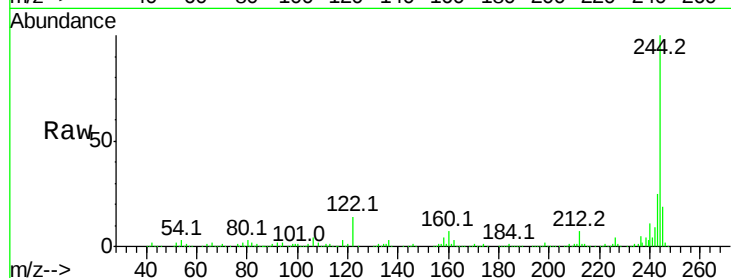
Tot Ion:244 Resp: 502265

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

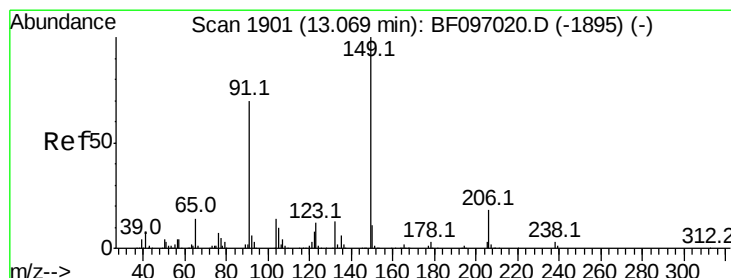
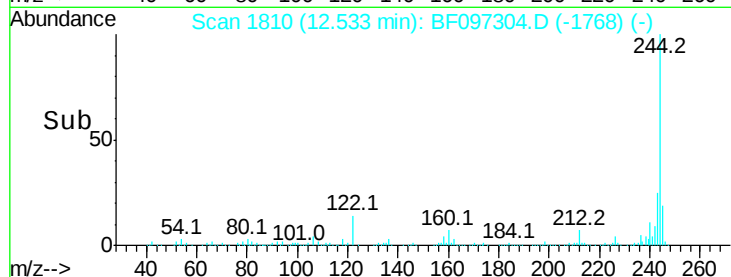
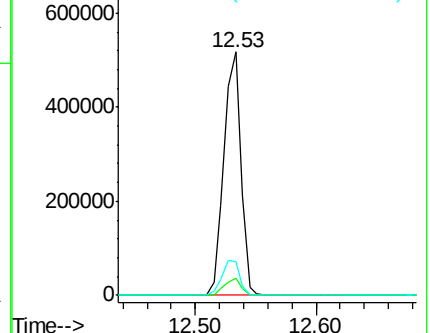
122 14.1 10.3 15.5



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



#79

Butylbenzylphthalate

Concen: 5.213 ng

RT: 13.01 min Scan# 1891

Delta R.T. -0.06 min

Lab File: BF097304.D

Acq: 3 Aug 2017 7:21

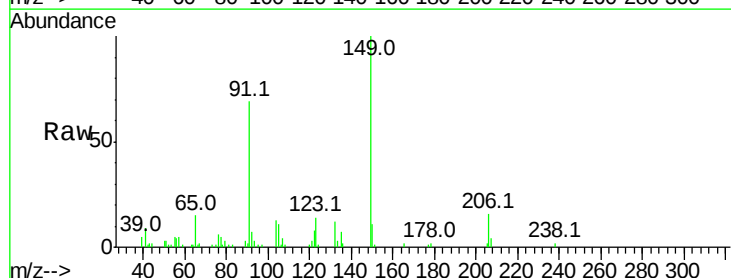
Tgt Ion:149 Resp: 36661

Ion Ratio Lower Upper

149 100

91 69.4 45.0 67.4#

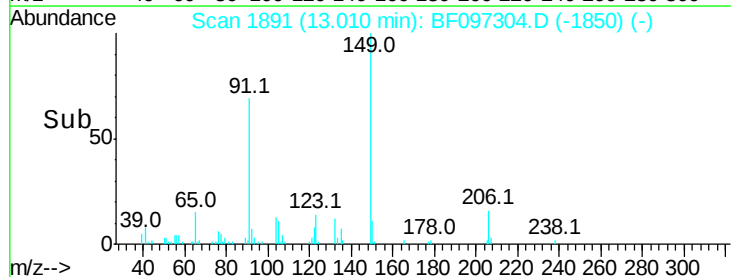
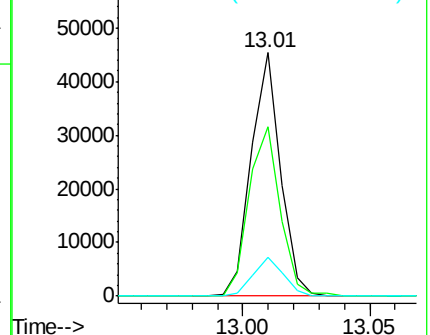
206 16.0 17.0 25.6#

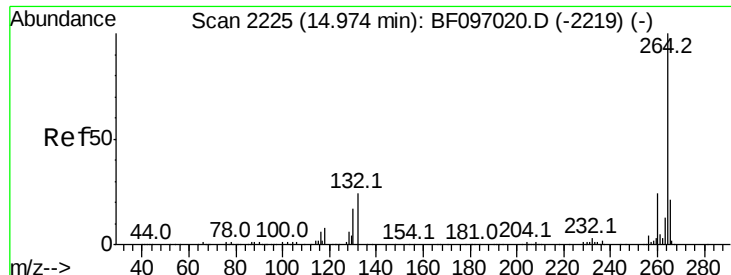


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E

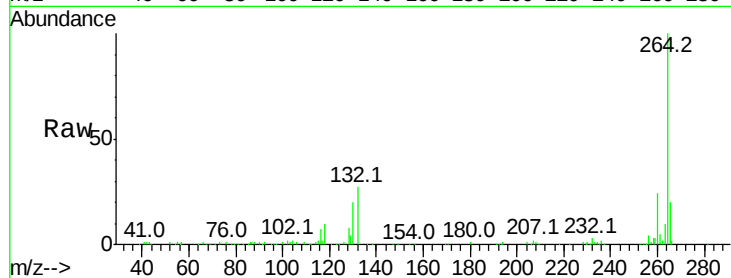




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 14.91 min Scan# 2214  
Delta R.T. -0.06 min  
Lab File: BF097304.D  
Acq: 3 Aug 2017 7:21

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.5  | 29.3  |
| 265     | 20.1  | 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

