

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082417\  
 Data File : BF098021.D  
 Acq On : 25 Aug 2017 00:15  
 Operator : SJ/JU  
 Sample : I4922-01 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-01-082217

Quant Time: Aug 25 01:04:57 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

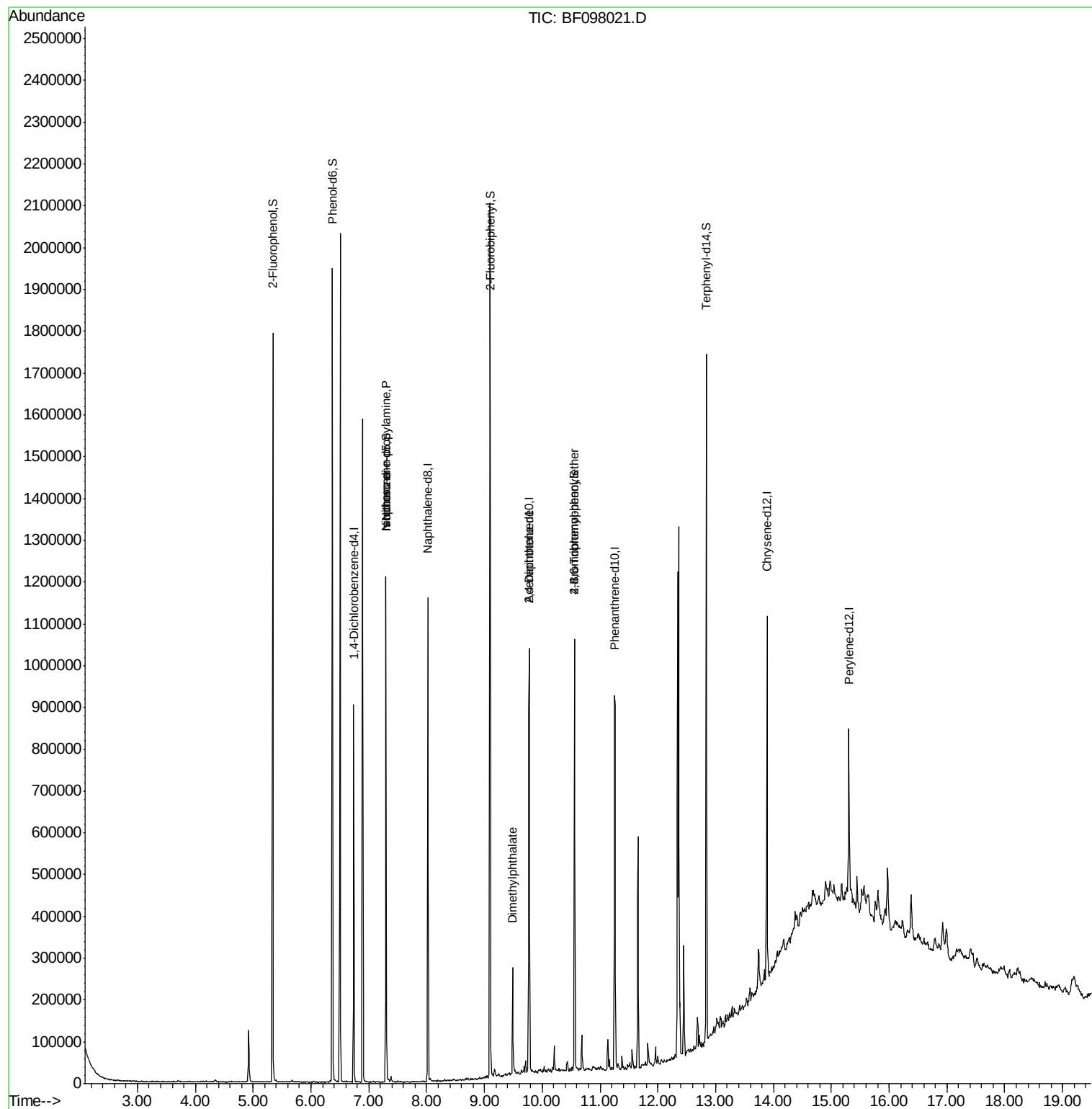
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 120931   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.02  | 136  | 458660   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 186675   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 327418   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 13.89 | 240  | 277304   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.30 | 264  | 192452   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 510808   | 64.25 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.37  | 99   | 688398   | 63.73 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 409790   | 48.54 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 101929   | 62.93 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.10  | 172  | 594186   | 46.76 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 455547   | 34.26 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 55581    | 7.52  | ng    | # 72     |
| 25) Isophorone                 | 7.30  | 82   | 402984   | 22.95 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.49  | 163  | 86625    | 6.35  | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 23819    | 6.97  | ng    | # 34     |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248  | 6996     | 2.06  | ng    | # 1      |

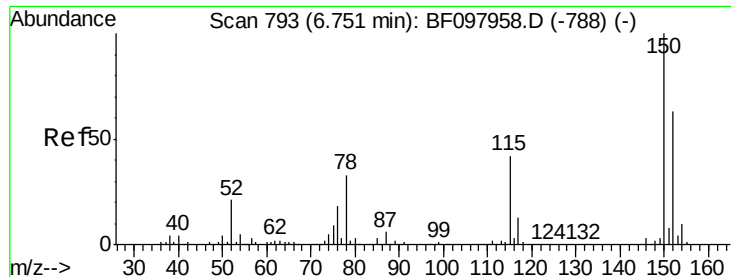
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
Response via : Initial Calibration



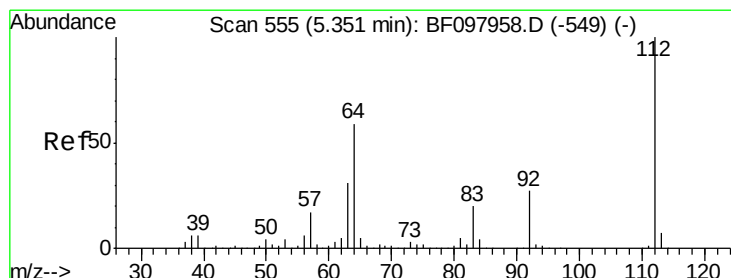
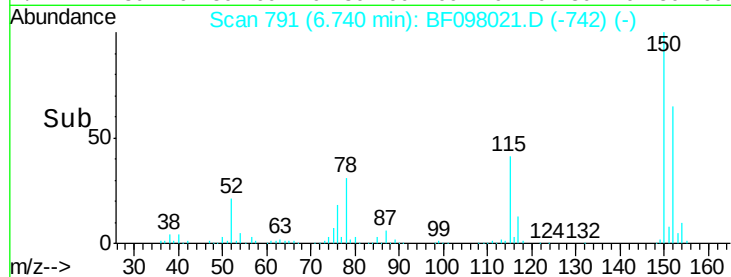
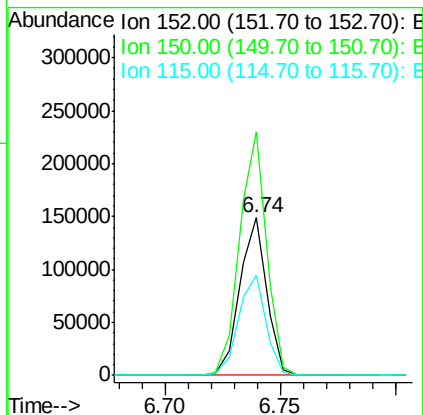
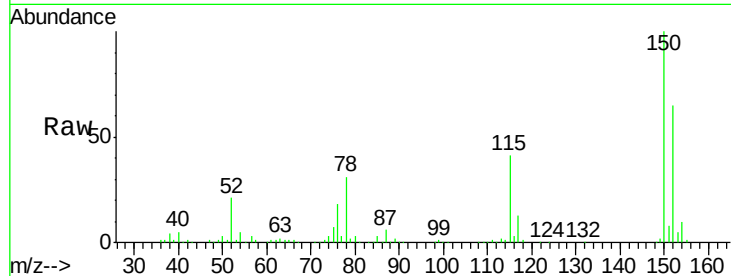


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.74 min Scan# 791  
Delta R.T. -0.01 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
SA-01-082217

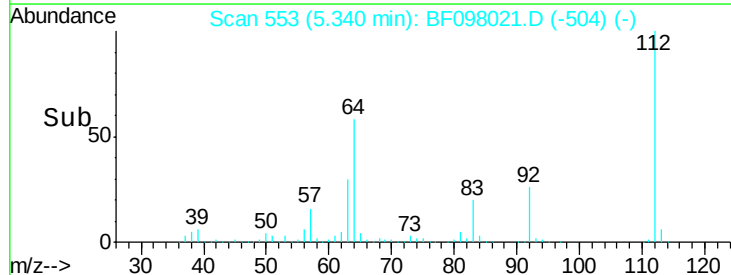
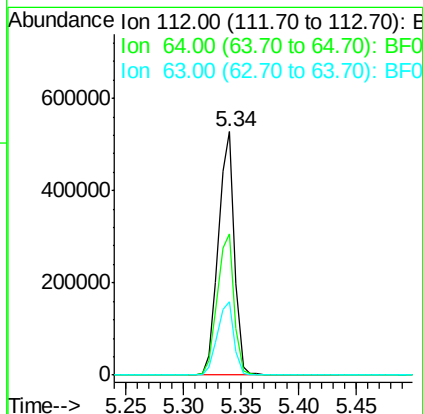
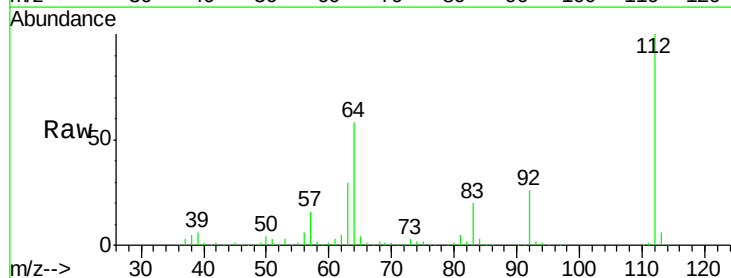
Tot Ion:152 Resp: 120931  
Ion Ratio Lower Upper  
152 100  
150 154.5 126.2 189.2  
115 63.8 52.2 78.2

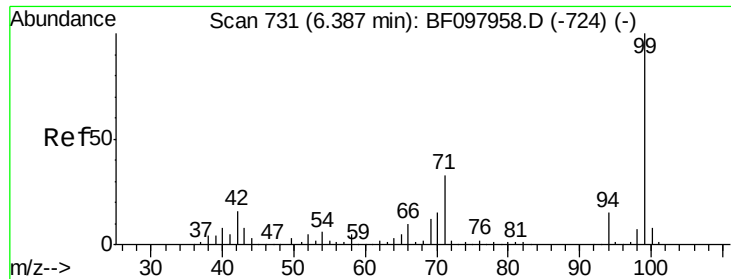


#5

2-Fluorophenol  
Concen: 64.25 ng  
RT: 5.34 min Scan# 553  
Delta R.T. -0.01 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Tgt Ion:112 Resp: 510808  
Ion Ratio Lower Upper  
112 100  
64 58.0 46.0 69.0  
63 29.9 23.4 35.0





#7

Phenol-d6

Concen: 63.73 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

Instrument :

BNA\_F

ClientSampleId :

SA-01-082217

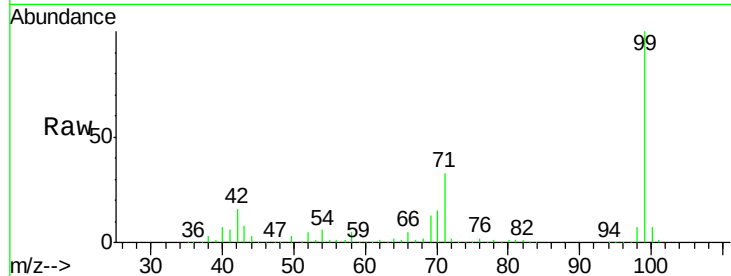
Tot Ion: 99 Resp: 688398

Ion Ratio Lower Upper

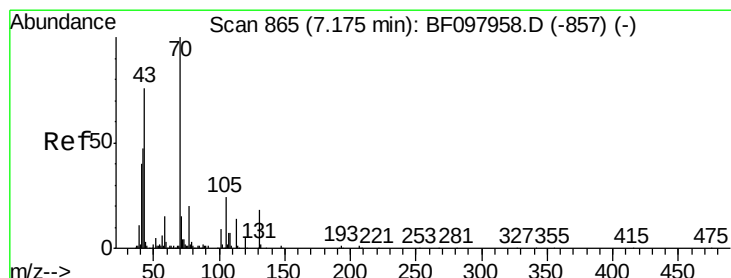
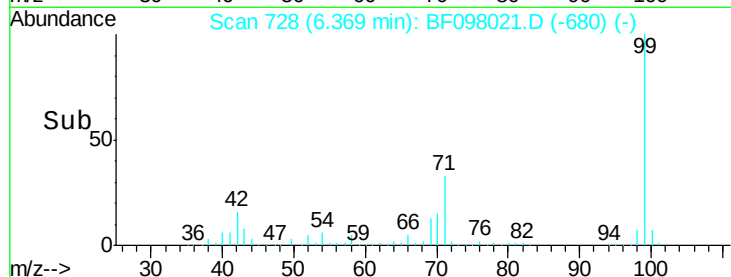
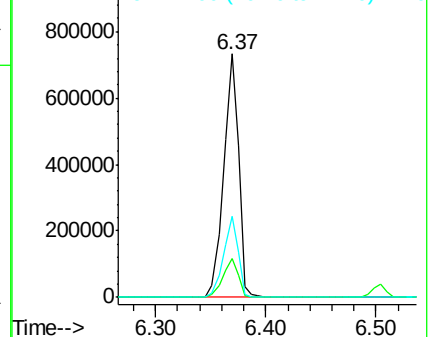
99 100

42 16.1 13.5 20.3

71 33.1 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: 7.52 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.12 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

Tgt Ion: 70 Resp: 55581

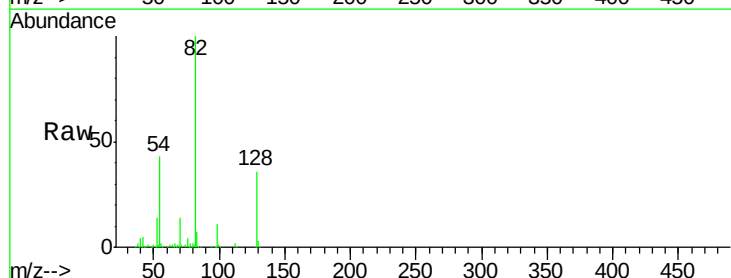
Ion Ratio Lower Upper

70 100

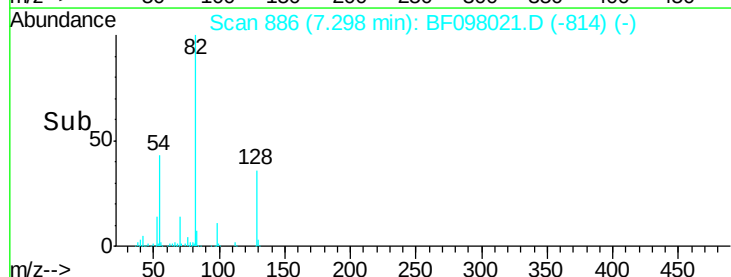
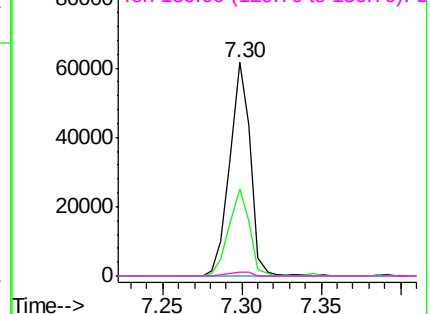
42 40.5 47.2 70.8#

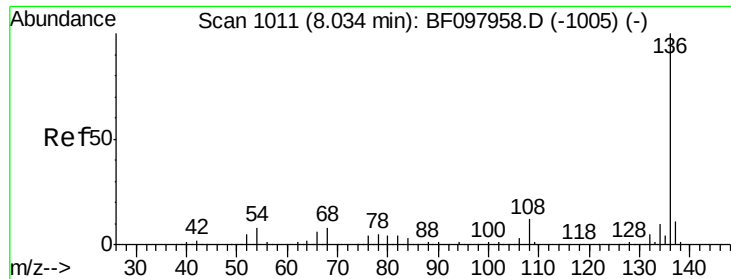
101 0.0 7.2 10.8#

130 2.0 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

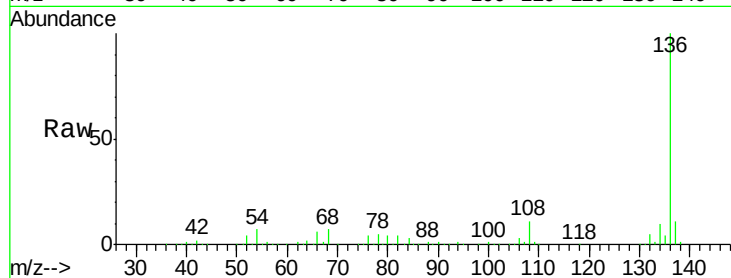




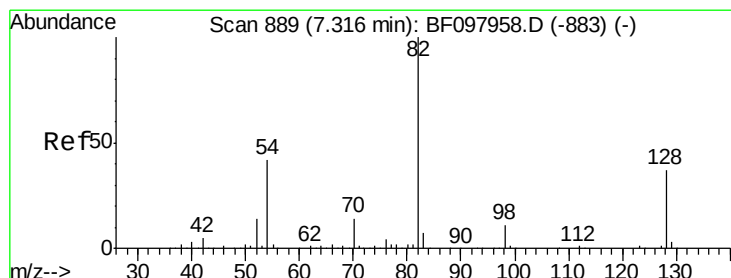
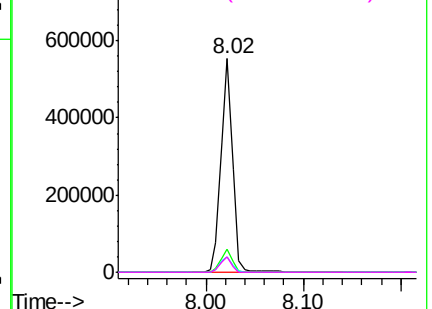
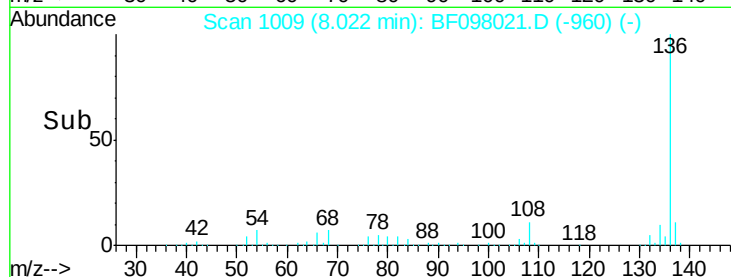
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.02 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
SA-01-082217

Tot Ion:136 Resp: 458660  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 7.4 4.9 7.3#  
68 7.0 4.1 6.1#

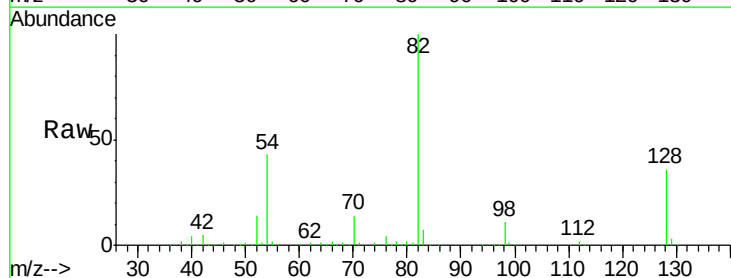


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

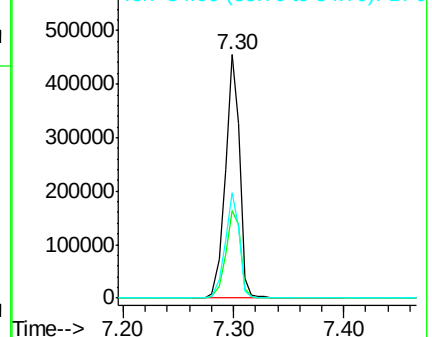
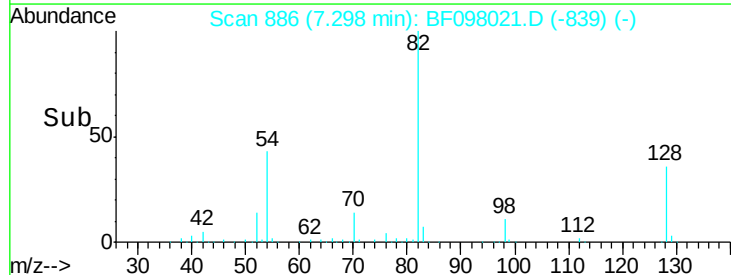


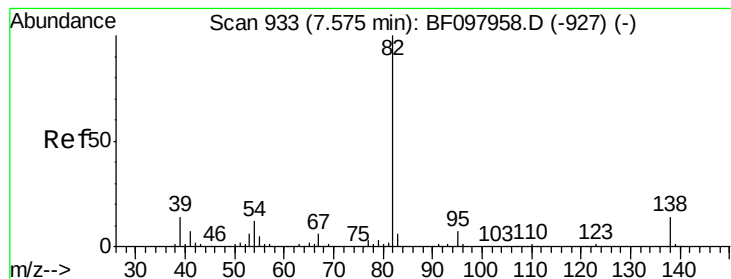
#23  
Nitrobenzene-d5  
Concen: 48.54 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.02 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Tgt Ion: 82 Resp: 409790  
Ion Ratio Lower Upper  
82 100  
128 36.1 34.0 51.0  
54 43.1 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: 22.95 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.28 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

Instrument :

BNA\_F

ClientSampleId :

SA-01-082217

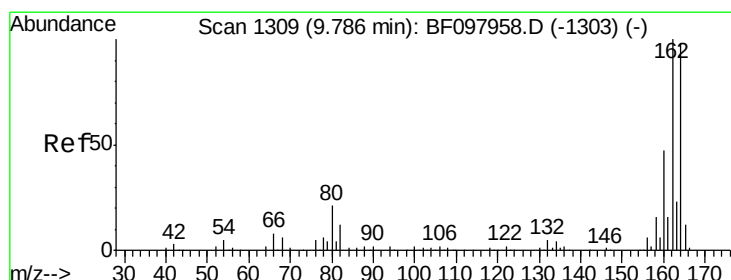
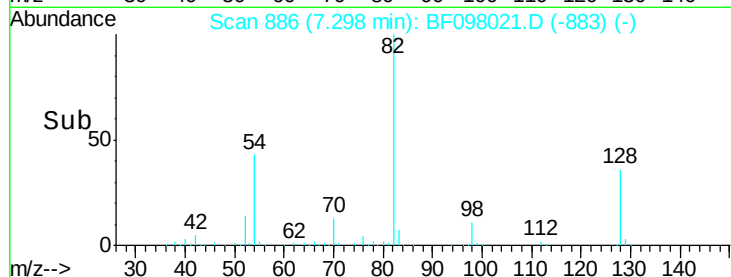
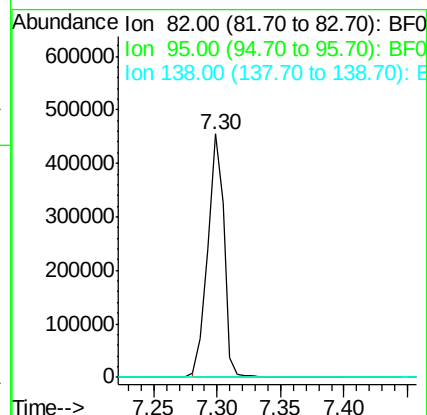
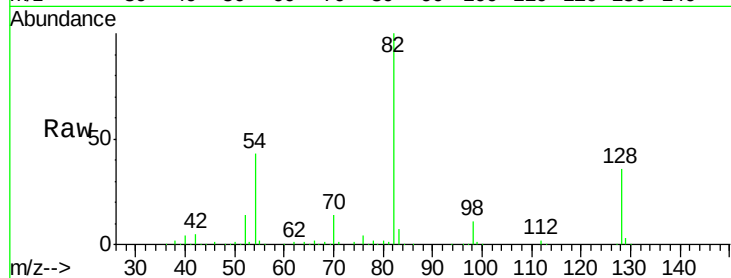
Tot Ion: 82 Resp: 402984

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

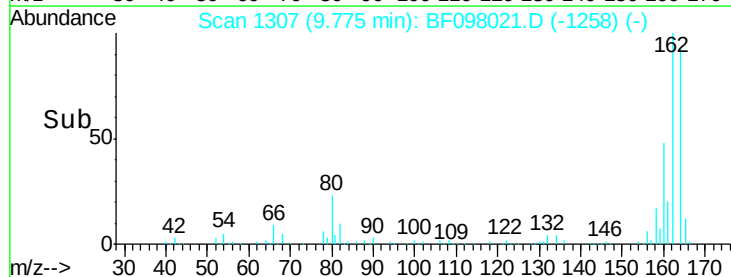
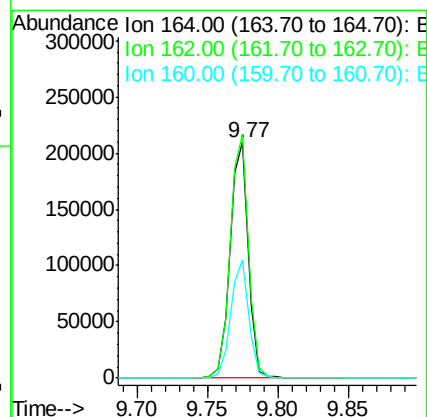
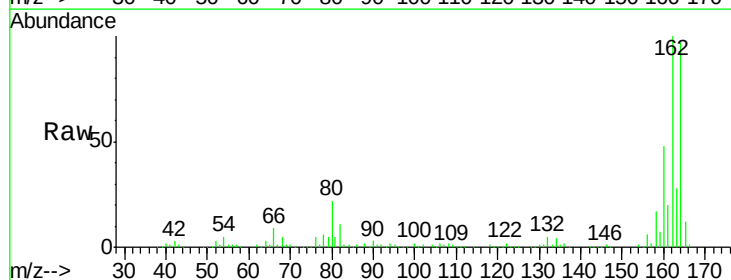
Tgt Ion:164 Resp: 186675

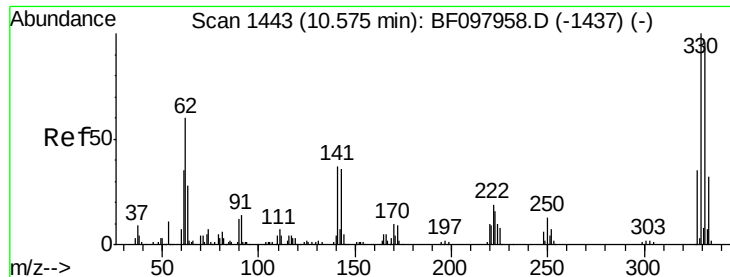
Ion Ratio Lower Upper

164 100

162 103.4 82.6 123.8

160 49.9 36.2 54.2

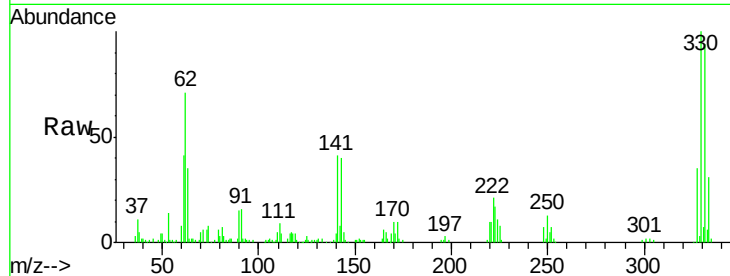




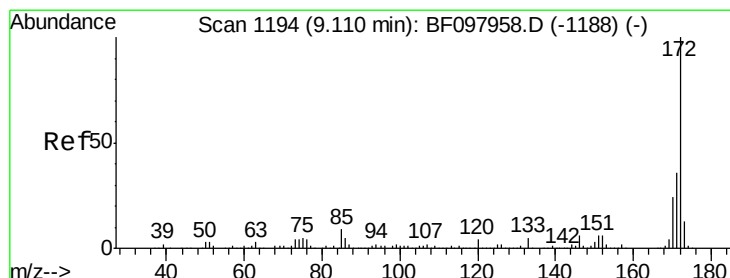
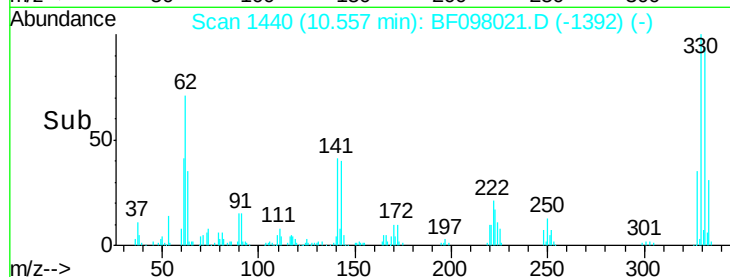
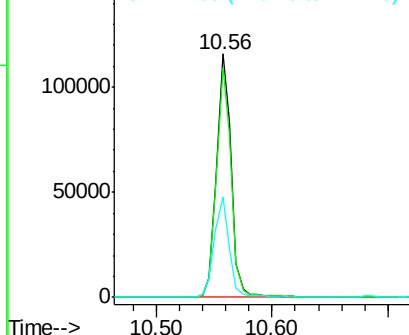
#41  
 2,4,6-Tribromophenol  
 Concen: 62.93 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF098021.D  
 Acq: 25 Aug 2017 00:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SA-01-082217

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.7  | 76.6  | 115.0 |
| 141     | 42.6  | 31.4  | 47.2  |

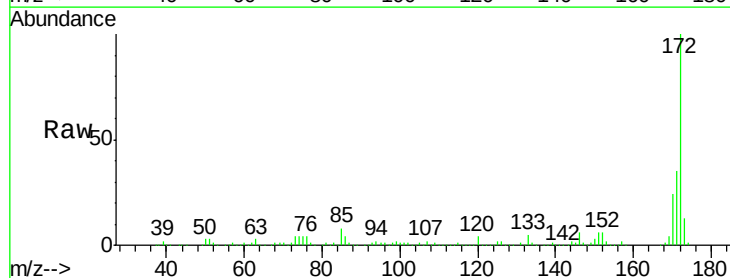


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

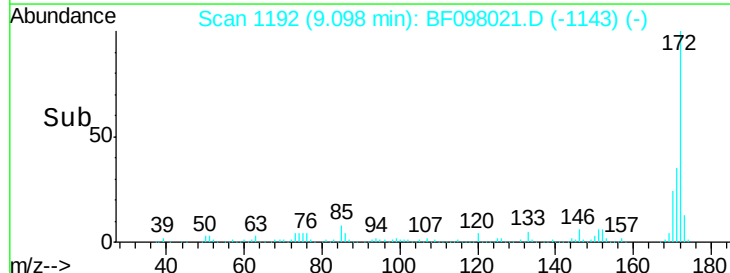
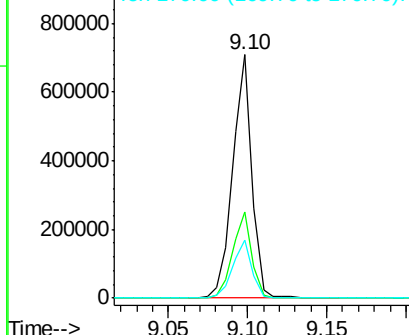


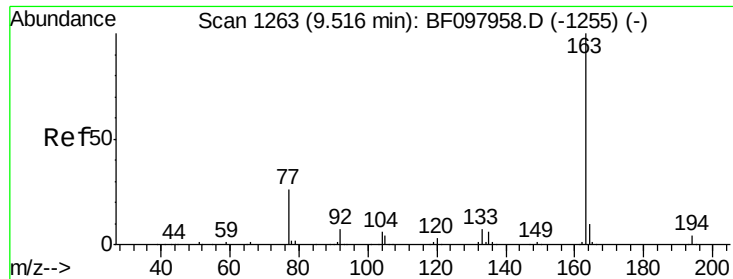
#44  
 2-Fluorobiphenyl  
 Concen: 46.76 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF098021.D  
 Acq: 25 Aug 2017 00:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 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

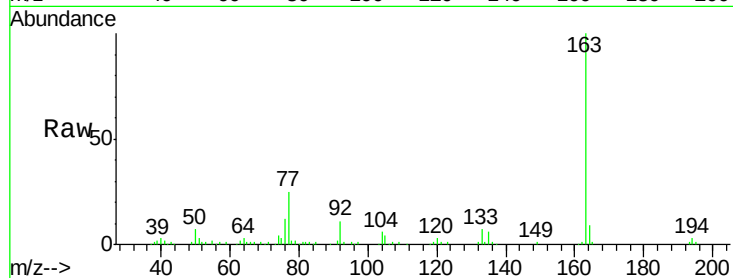




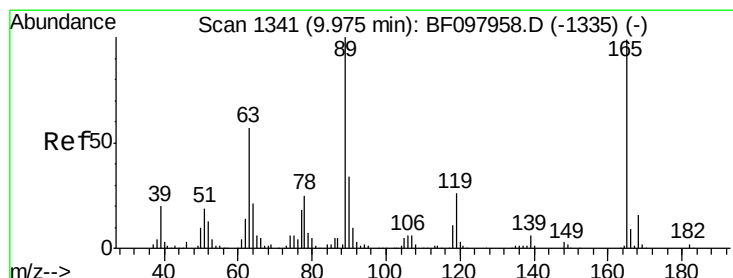
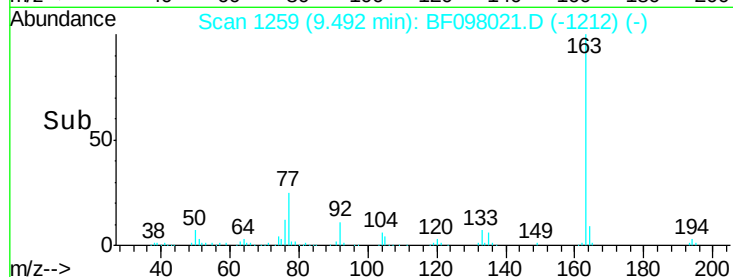
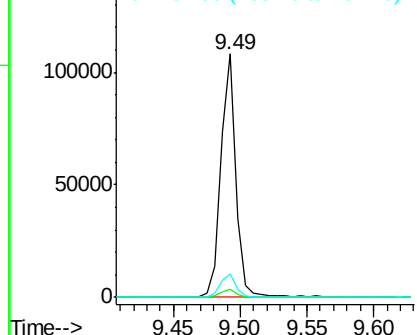
#49  
Dimethylphthalate  
Concen: 6.35 ng  
RT: 9.49 min Scan# 1259  
Delta R.T. -0.02 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
SA-01-082217

Tot Ion:163 Resp: 86625  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 9.4 8.4 12.6

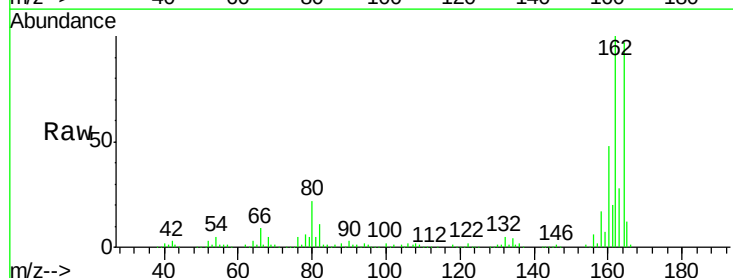


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

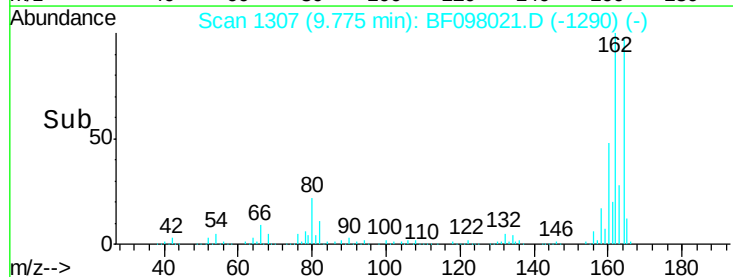
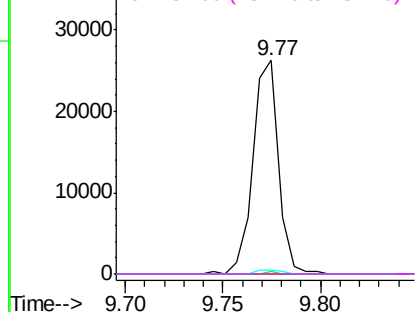


#56  
2,4-Dinitrotoluene  
Concen: 6.97 ng  
RT: 9.77 min Scan# 1307  
Delta R.T. -0.20 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

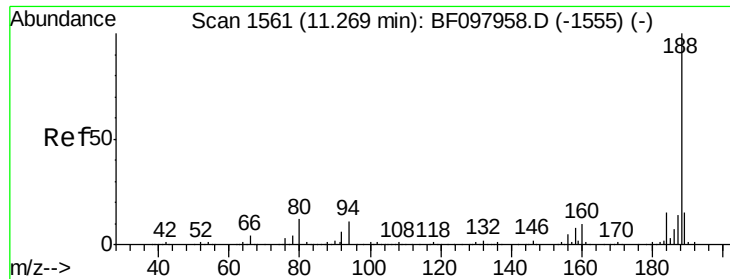
Tgt Ion:165 Resp: 23819  
Ion Ratio Lower Upper  
165 100  
63 1.4 25.4 38.0#  
89 2.0 46.4 69.6#  
182 0.0 1.8 2.6#



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



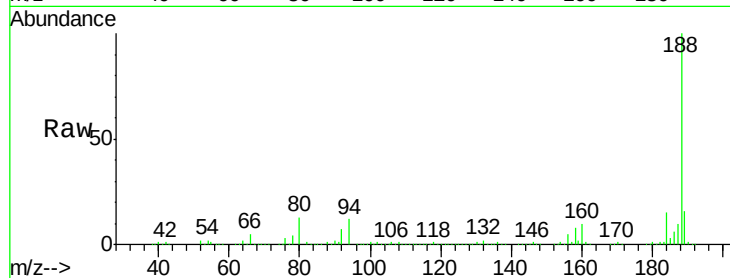




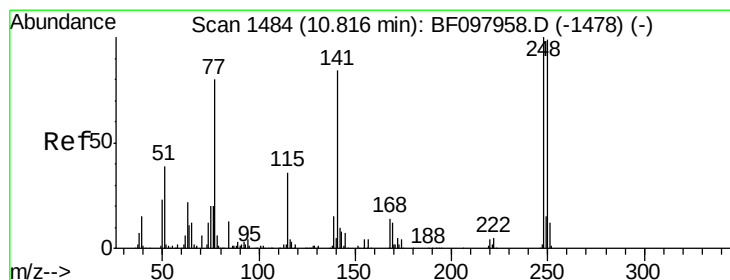
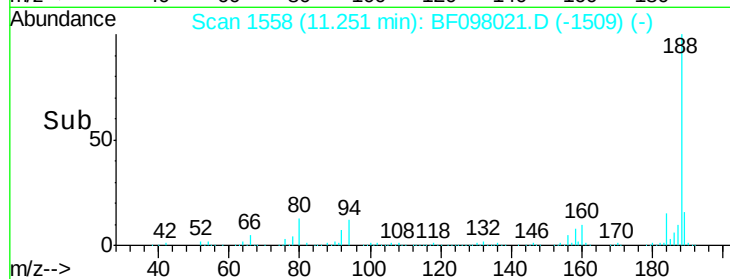
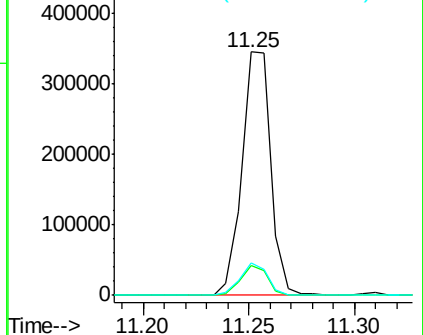
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
SA-01-082217

Tot Ion:188 Resp: 327418  
Ion Ratio Lower Upper  
188 100  
94 12.2 9.4 14.2  
80 13.3 10.2 15.2

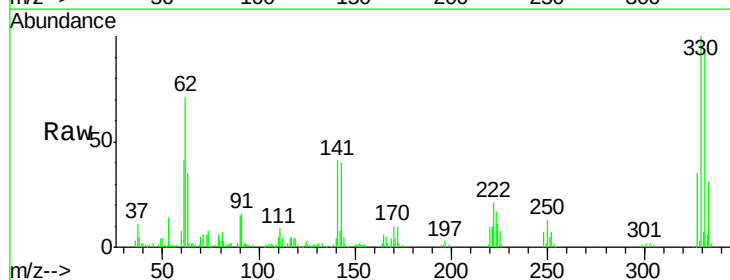


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

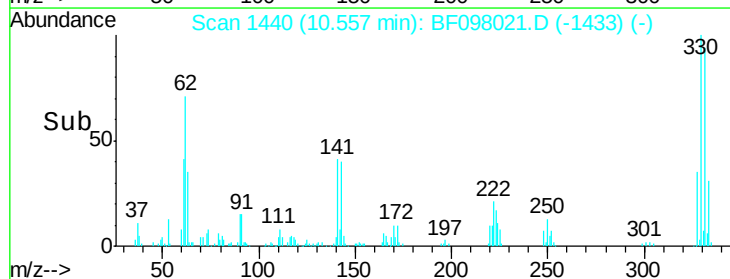
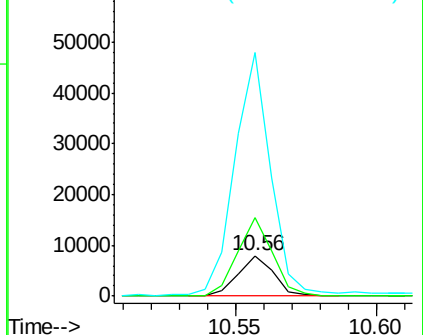


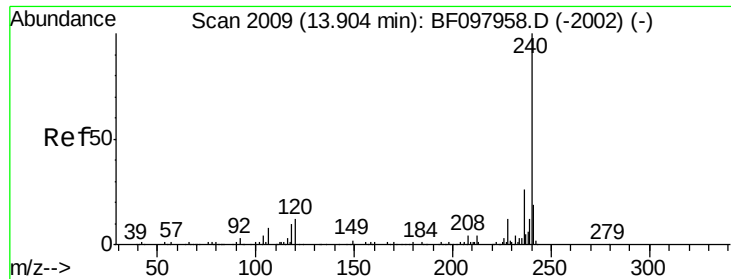
#66  
4-Bromophenyl-phenylether  
Concen: 2.06 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.26 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Tgt Ion:248 Resp: 6996  
Ion Ratio Lower Upper  
248 100  
250 193.3 76.8 115.2#  
141 599.6 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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

Instrument :

BNA\_F

ClientSampleId :

SA-01-082217

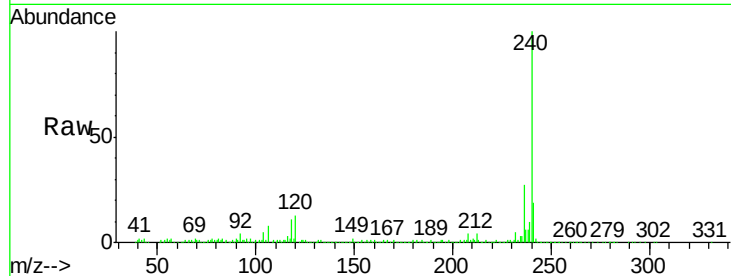
Tot Ion:240 Resp: 277304

Ion Ratio Lower Upper

240 100

120 13.0 5.8 8.8#

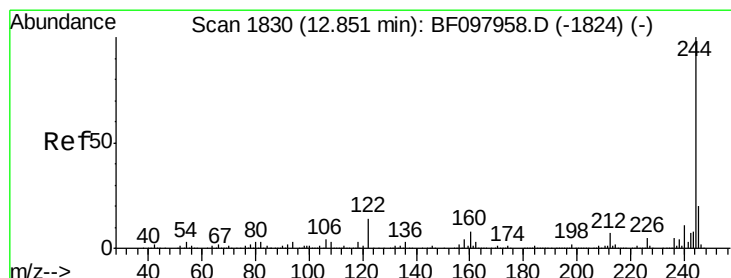
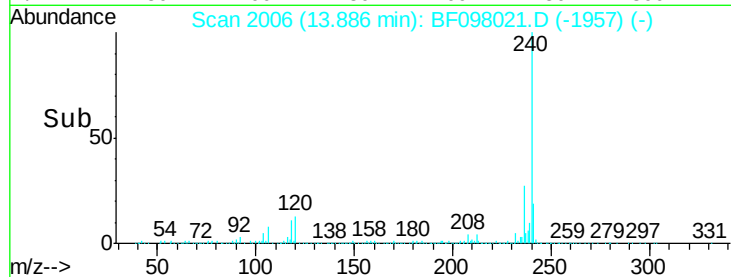
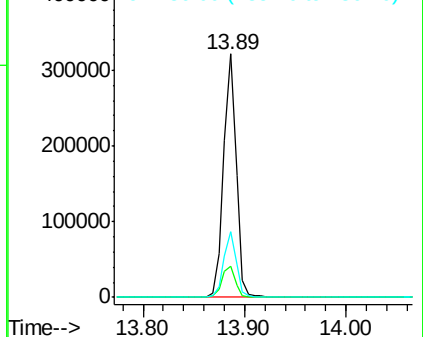
236 27.0 20.5 30.7



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: 34.26 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098021.D

Acq: 25 Aug 2017 00:15

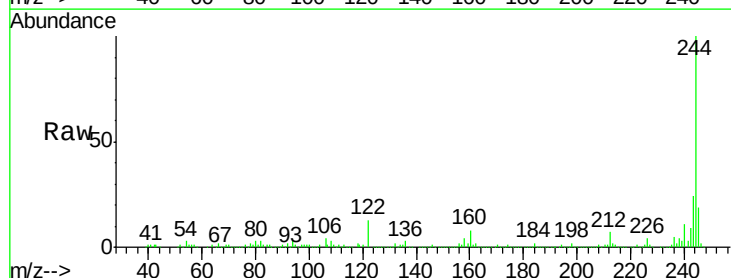
Tgt Ion:244 Resp: 455547

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

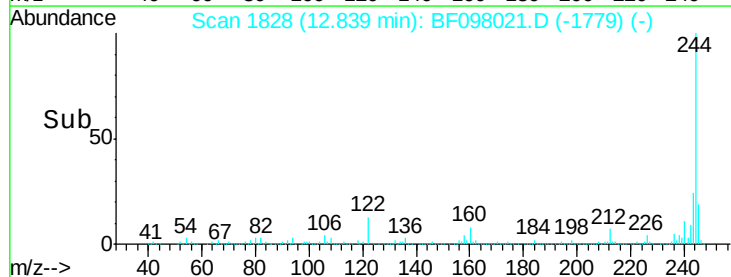
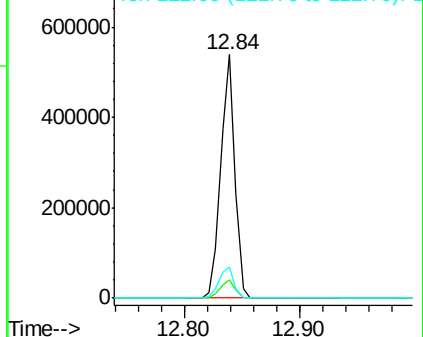
122 12.6 10.3 15.5

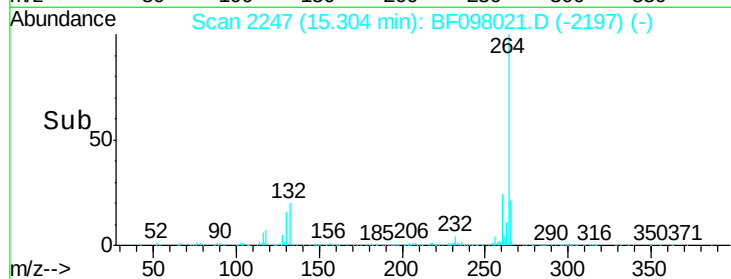
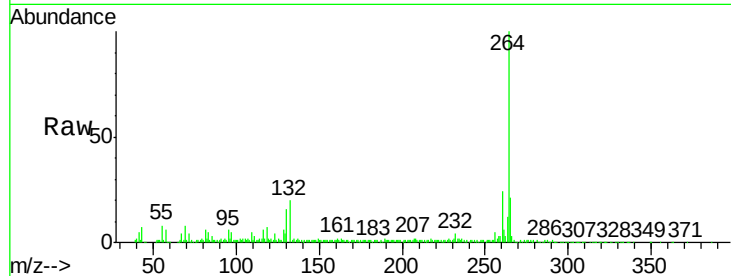
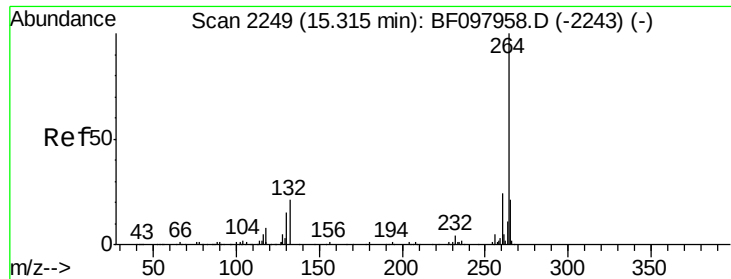


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.30 min Scan# 2247  
Delta R.T. -0.01 min  
Lab File: BF098021.D  
Acq: 25 Aug 2017 00:15

Instrument :  
BNA\_F  
ClientSampleId :  
SA-01-082217

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.5  | 29.3  |
| 265     | 21.1  | 17.2  | 25.8  |

