

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040618\  
 Data File : BF104339.D  
 Acq On : 7 Apr 2018 6:20  
 Operator : JU/SJ  
 Sample : J2225-14  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 09 00:47:10 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 06 16:44:53 2018  
 Response via : Initial Calibration

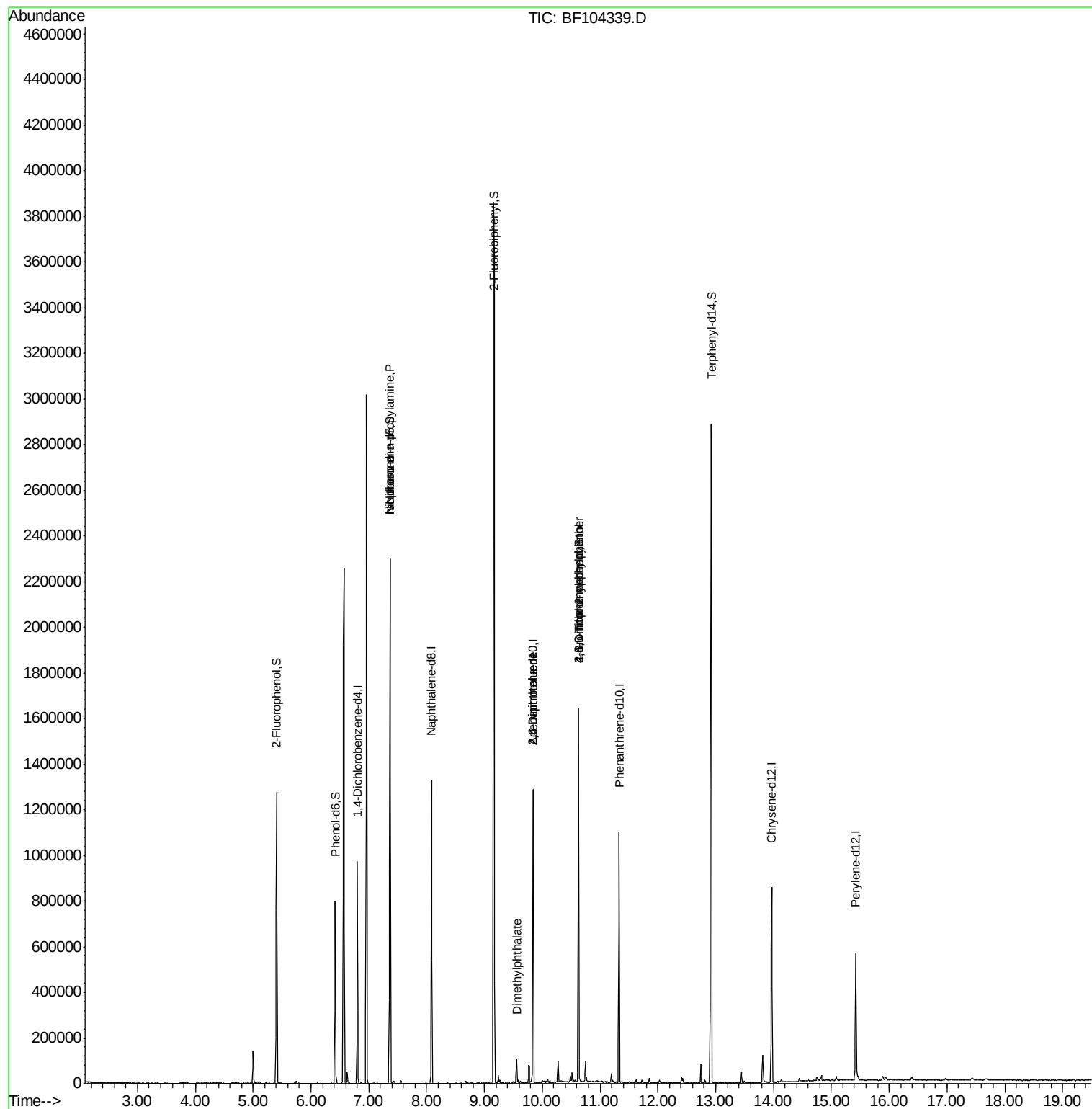
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 136876   | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 543999   | 20.00     | ng     | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 235915   | 20.00     | ng     | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 349001   | 20.00     | ng     | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 267134   | 20.00     | ng     | 0.00     |
| 86) Perylene-d12               | 15.42 | 264  | 242167   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 331177   | 37.00     | ng     | 0.00     |
| 7) Phenol-d6                   | 6.42  | 99   | 245398   | 22.31     | ng     | -0.01    |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 830285   | 99.66     | ng     | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 183175   | 74.85     | ng     | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 1371242  | 91.82     | ng     | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 987259   | 84.26     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.42  | 77   | 480      | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 109595   | 15.249 ng | #      | 74       |
| 25) Isophorone                 | 7.37  | 82   | 829860   | 47.105 ng | #      | 64       |
| 49) Dimethylphthalate          | 9.56  | 163  | 37561    | 2.019 ng  |        | 100      |
| 50) 2,6-Dinitrotoluene         | 9.84  | 165  | 30210    | 8.776 ng  | #      | 26       |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 30210    | 6.690 ng  | #      | 24       |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 205      | 7.449 ng  | #      | 1        |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 11002    | 2.964 ng  | #      | 1        |
| 76) Benzidine                  | 12.92 | 184  | 13093    | Below Cal | #      | 93       |

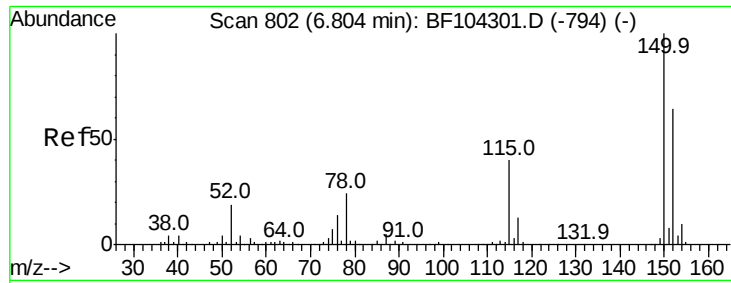
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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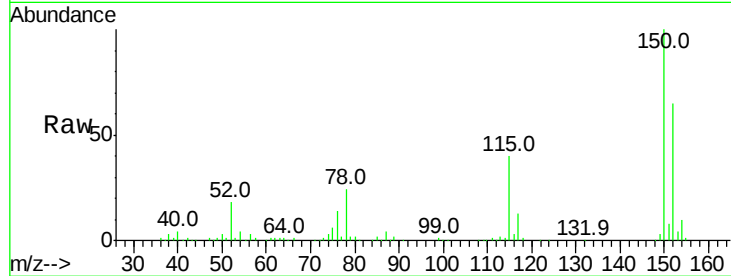


#1

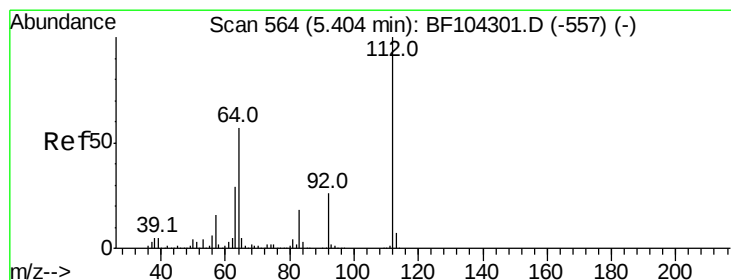
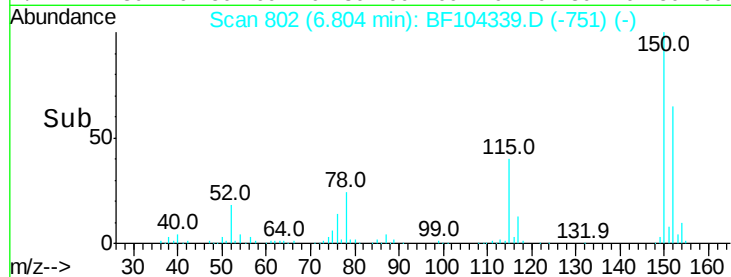
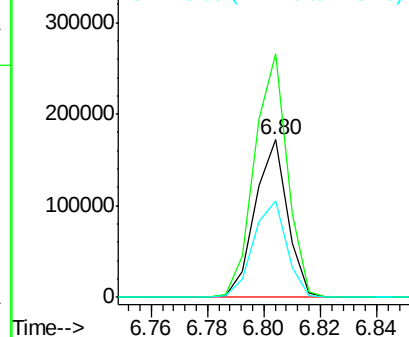
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104339.D  
Acq: 7 Apr 2018 6:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 136876  
Ion Ratio Lower Upper  
152 100  
150 154.3 124.6 186.8  
115 61.3 50.1 75.1



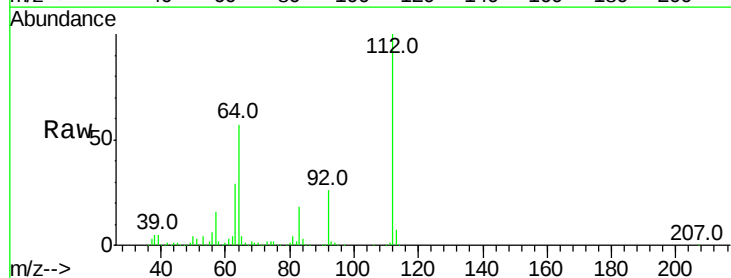
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



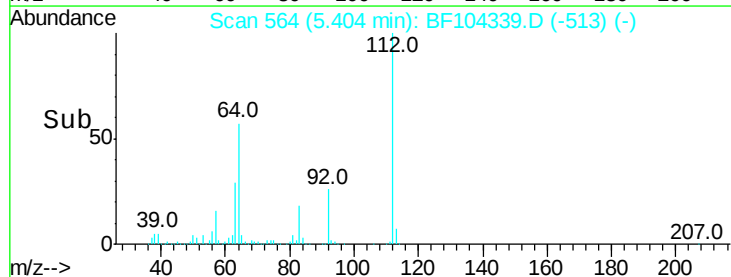
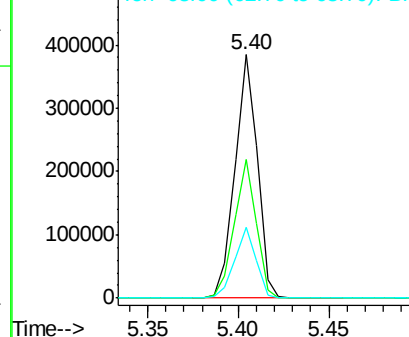
#5

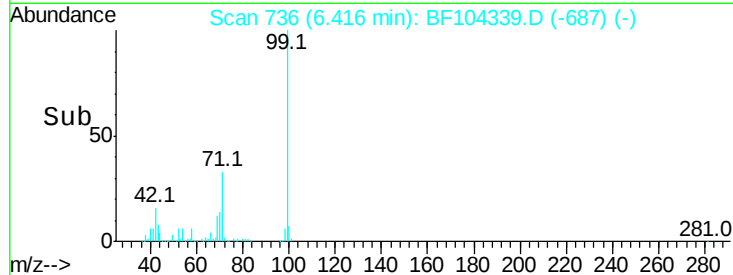
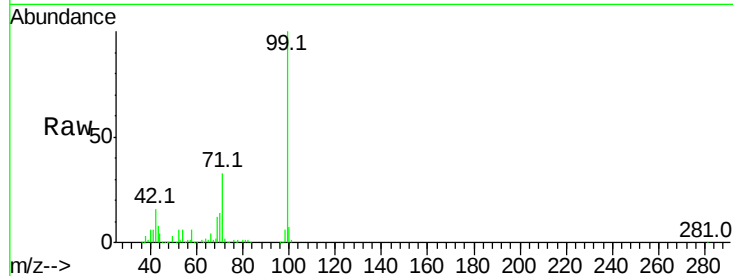
2-Fluorophenol  
Concen: 36.996 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.00 min  
Lab File: BF104339.D  
Acq: 7 Apr 2018 6:20

Tgt Ion:112 Resp: 331177  
Ion Ratio Lower Upper  
112 100  
64 57.1 47.9 71.9  
63 29.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 22.312 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Instrument :

BNA\_F

ClientSampleId :

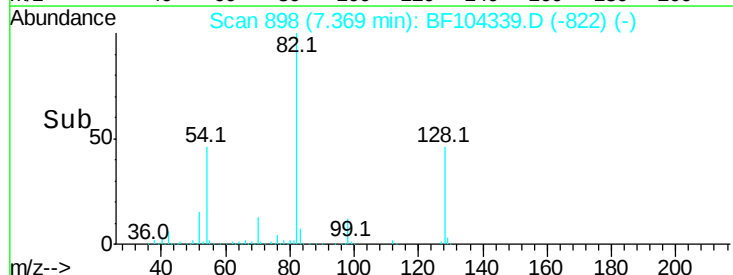
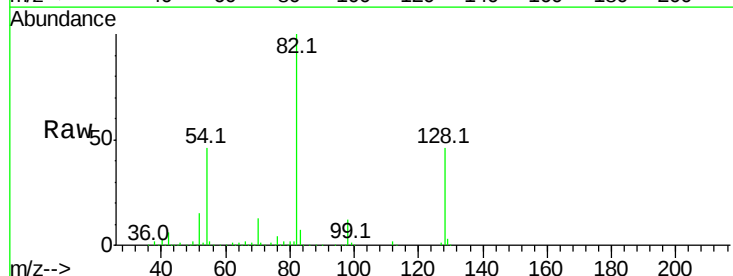
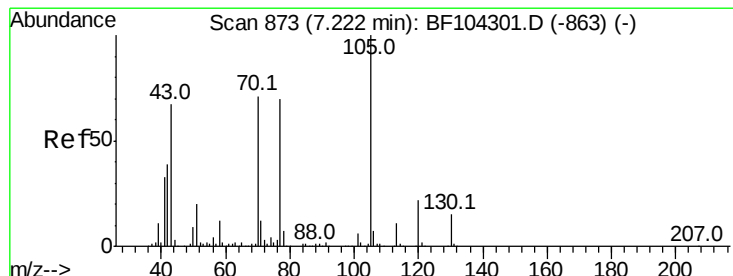
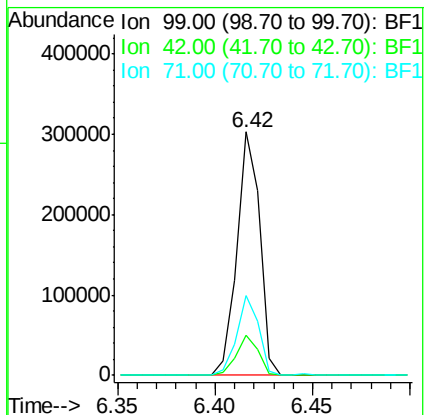
Tot Ion: 99 Resp: 245398

Ion Ratio Lower Upper

99 100

42 16.3 14.5 21.7

71 32.6 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.249 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Tgt Ion: 70 Resp: 109595

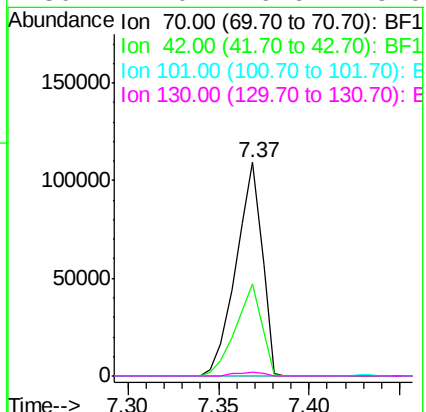
Ion Ratio Lower Upper

70 100

42 43.1 47.5 71.3#

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 543999

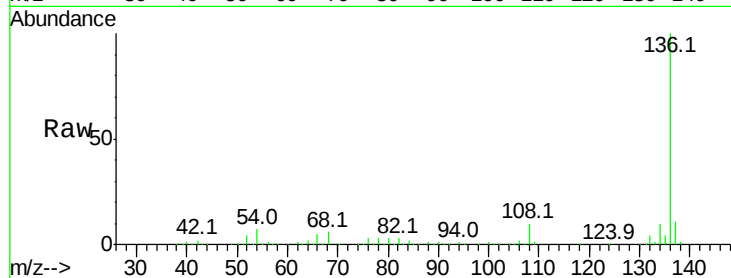
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 7.0 6.6 9.8

68 6.2 5.0 7.4

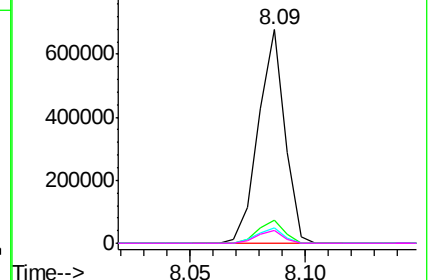
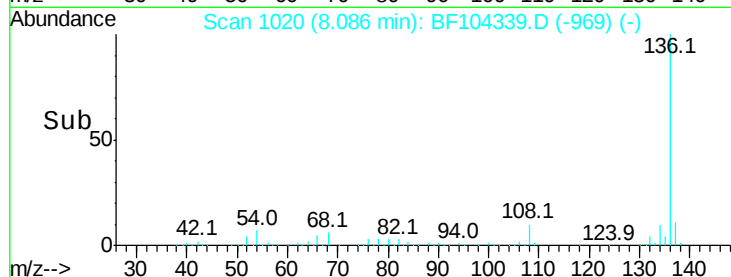


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 99.662 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.00 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

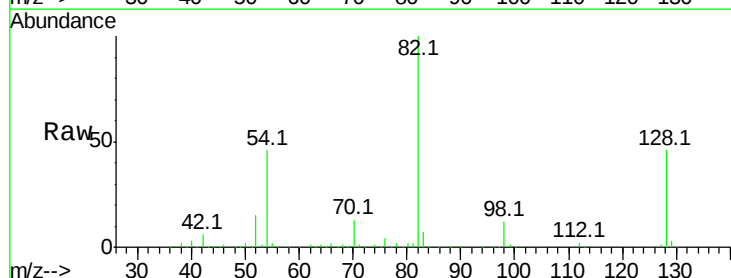
Tgt Ion: 82 Resp: 830285

Ion Ratio Lower Upper

82 100

128 46.0 36.1 54.1

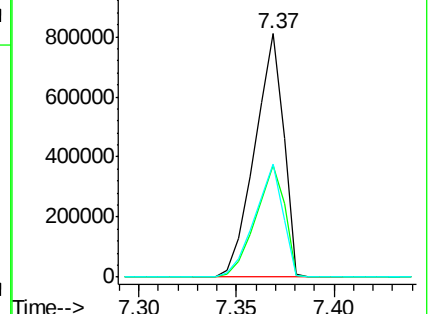
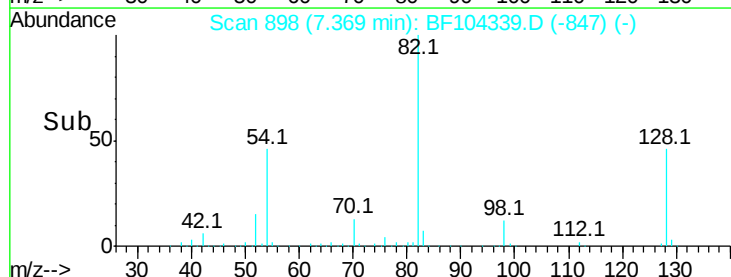
54 46.2 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 47.105 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Instrument :

BNA\_F

ClientSampleId :

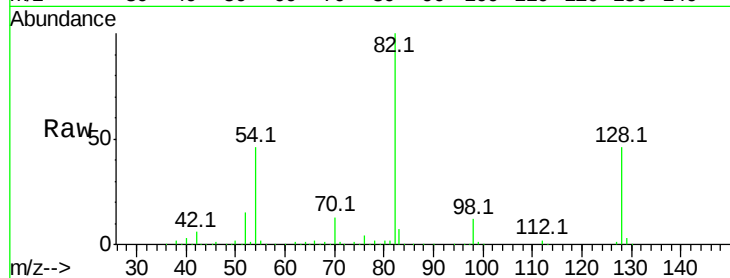
Tot Ion: 82 Resp: 829860

Ion Ratio Lower Upper

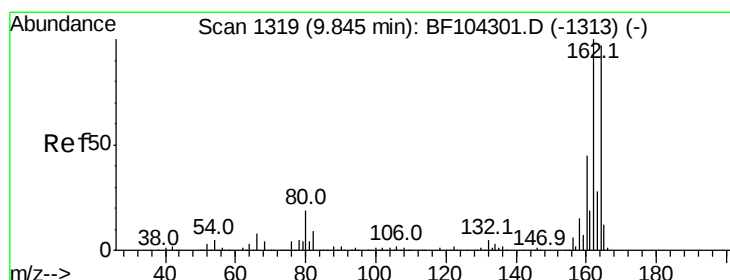
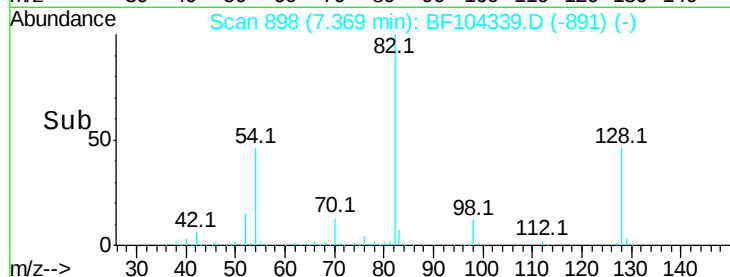
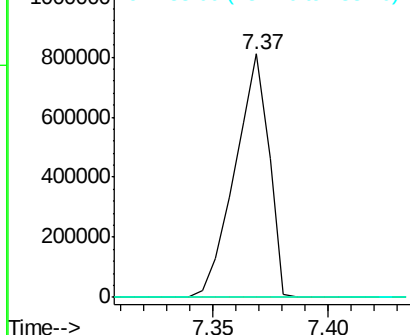
82 100

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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

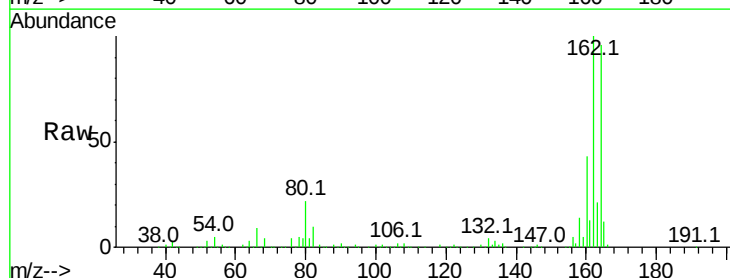
Tgt Ion:164 Resp: 235915

Ion Ratio Lower Upper

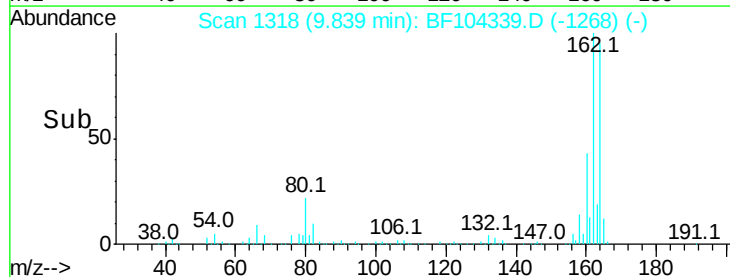
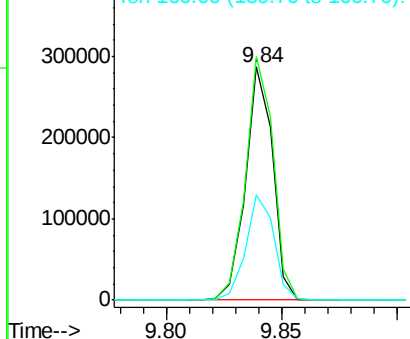
164 100

162 104.5 86.1 129.1

160 45.0 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

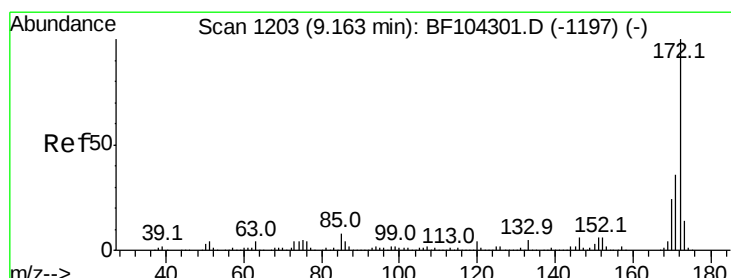
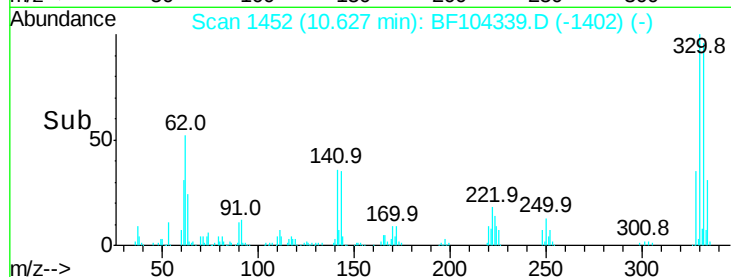
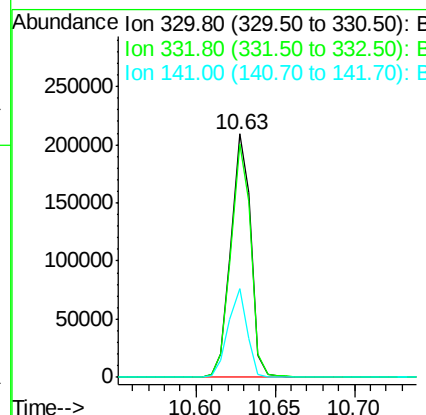
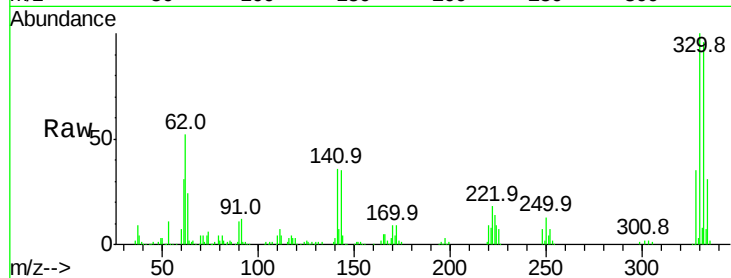




#41  
 2,4,6-Tribromophenol  
 Concen: 74.851 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

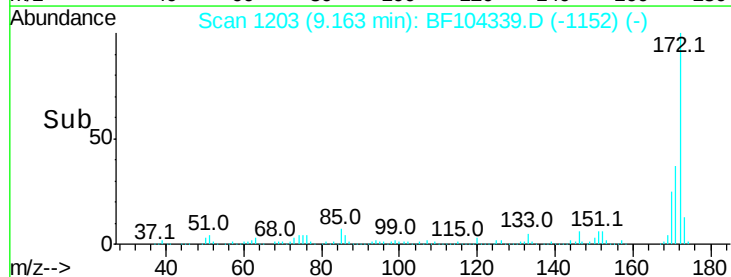
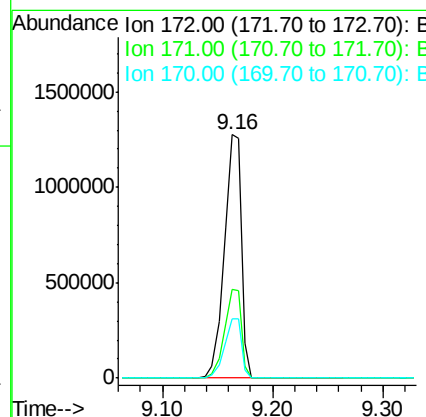
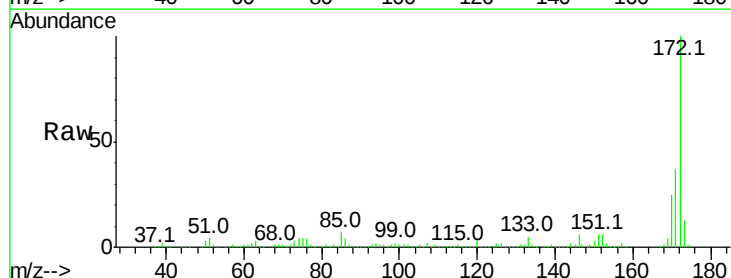
Instrument :  
 BNA\_F  
 ClientSampleId :

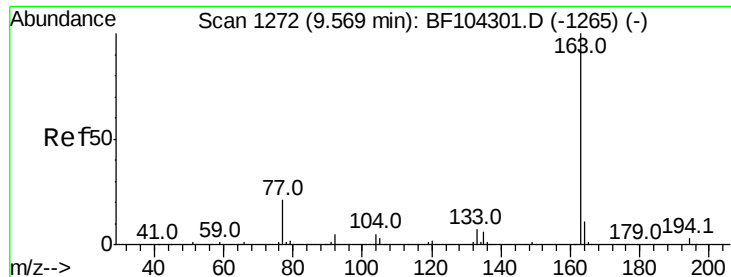
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.1  | 77.0  | 115.6 |
| 141     | 34.8  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 91.822 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. 0.00 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.7  | 44.5  |
| 170     | 24.6  | 19.6  | 29.4  |





#49

Dimethylphthalate

Concen: 2.019 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.01 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Instrument :

BNA\_F

ClientSampleId :

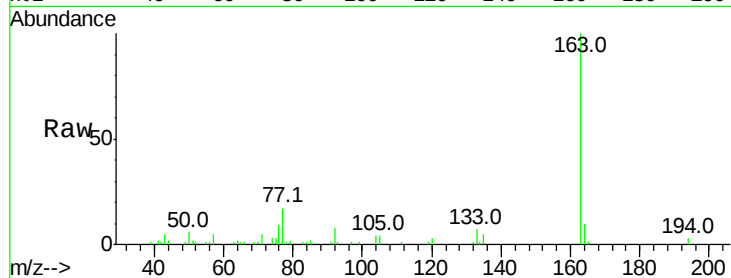
Tot Ion:163 Resp: 37561

Ion Ratio Lower Upper

163 100

194 3.1 2.7 4.1

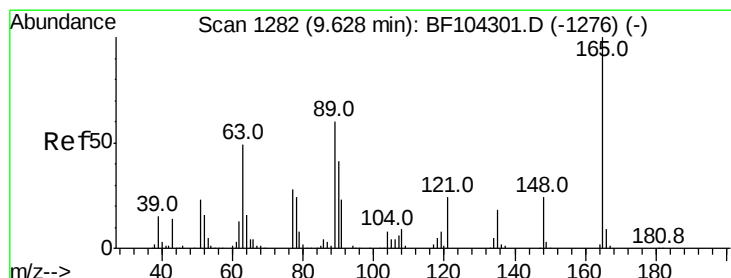
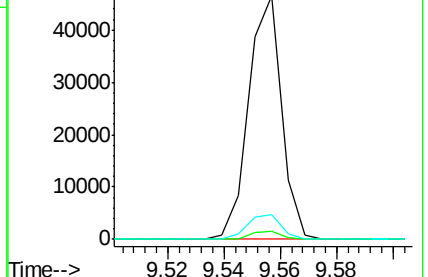
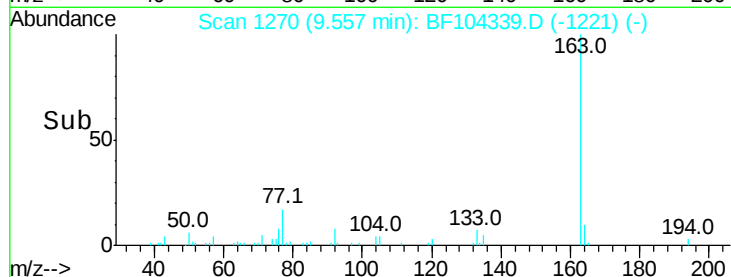
164 10.2 8.2 12.2



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: 8.776 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.21 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

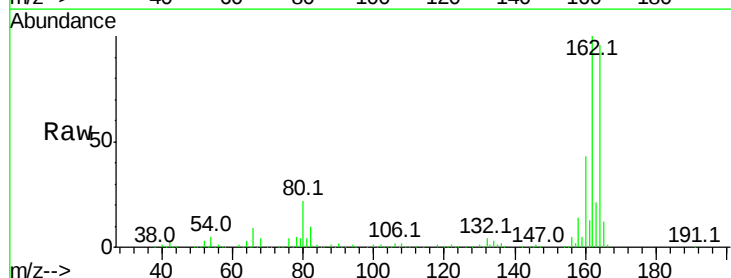
Tgt Ion:165 Resp: 30210

Ion Ratio Lower Upper

165 100

63 1.6 44.7 67.1#

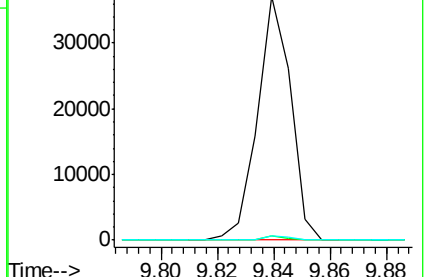
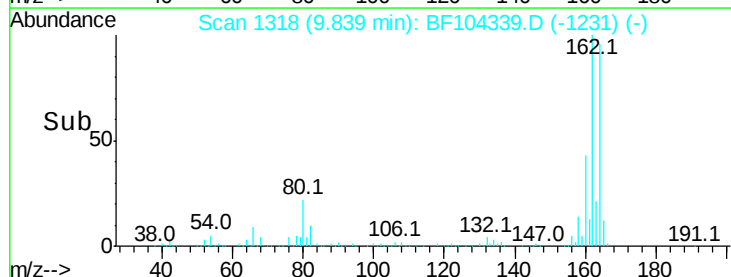
89 1.8 44.0 66.0#

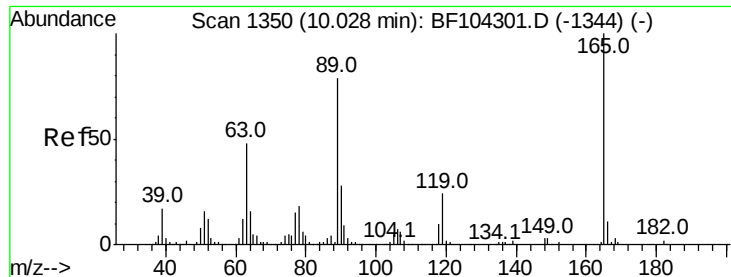


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



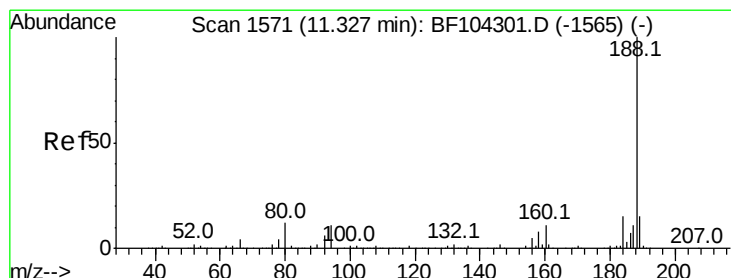
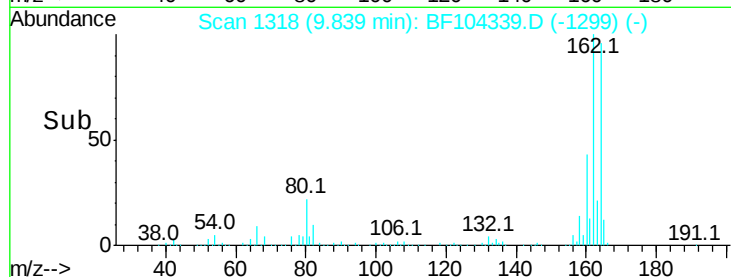
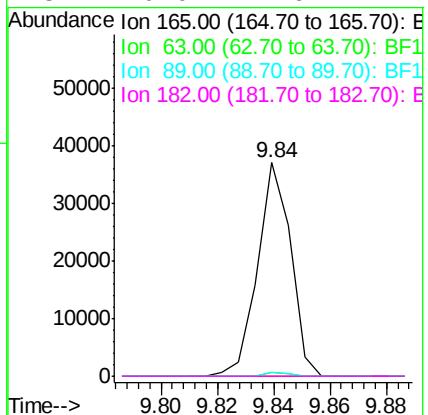
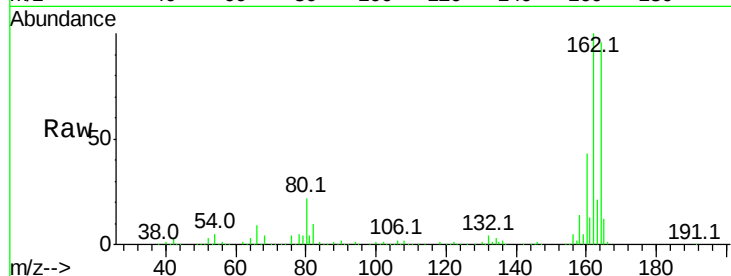


#56  
 2,4-Dinitrotoluene  
 Concen: 6.690 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.19 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:165 Resp: 30210

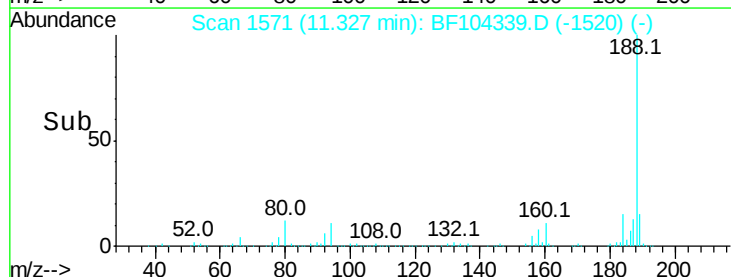
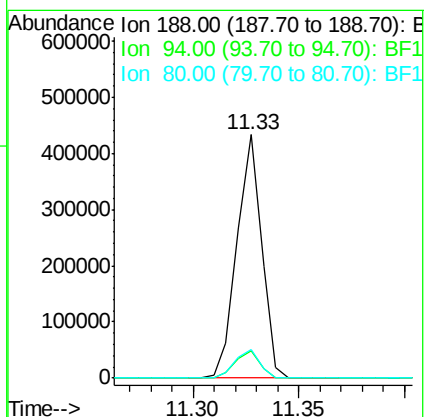
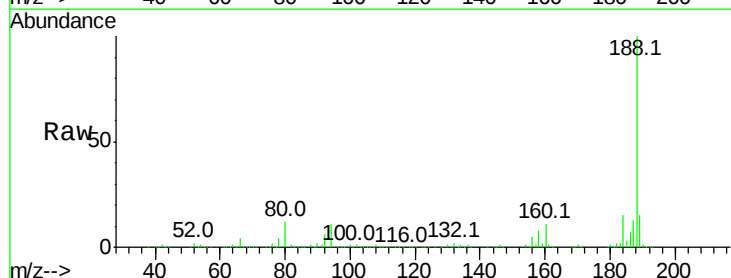
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.6   | 36.4  | 54.6# |
| 89  | 1.8   | 57.8  | 86.6# |
| 182 | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.00 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

Tgt Ion:188 Resp: 349001

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 11.0  | 8.5   | 12.7  |
| 80  | 11.6  | 9.2   | 13.8  |

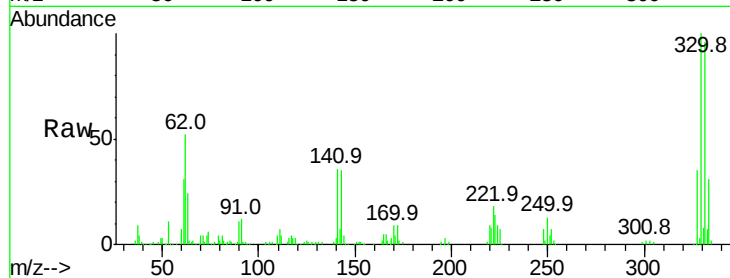




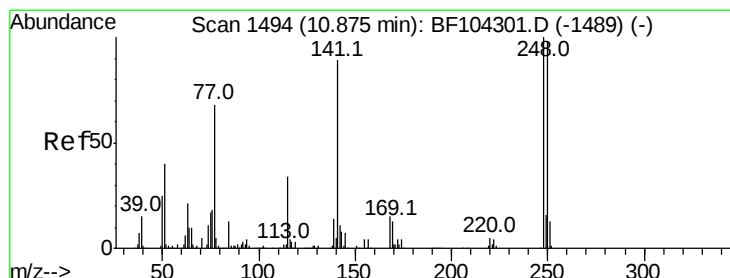
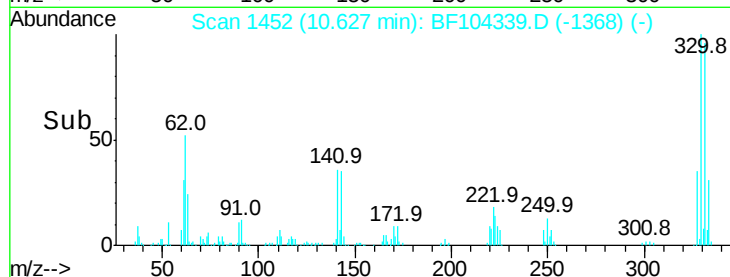
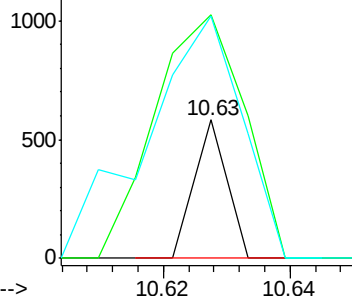
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.449 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.19 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 205  
 Ion Ratio Lower Upper  
 198 100  
 51 176.3 37.7 77.7#  
 105 175.8 36.3 76.3#

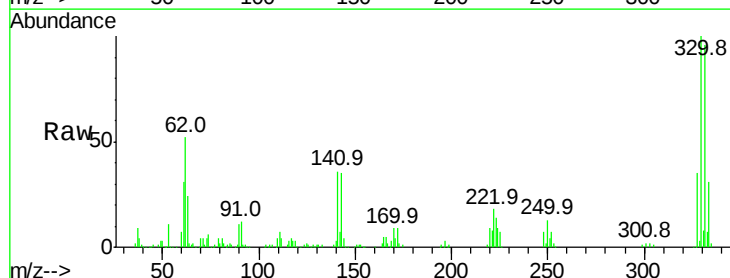


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

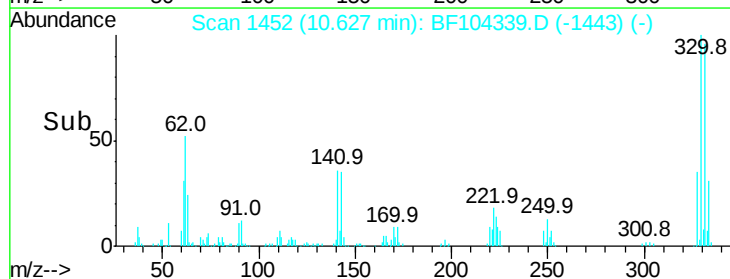
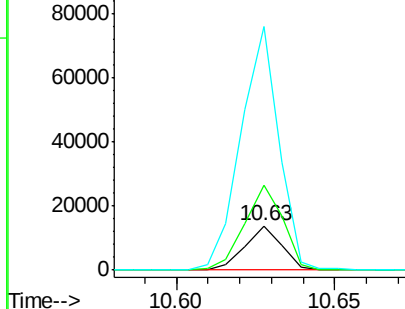


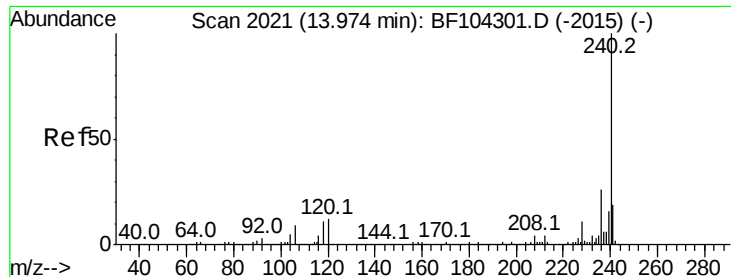
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.964 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.25 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

Tgt Ion:248 Resp: 11002  
 Ion Ratio Lower Upper  
 248 100  
 250 191.3 76.9 115.3#  
 141 552.7 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: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

Instrument :

BNA\_F

ClientSampleId :

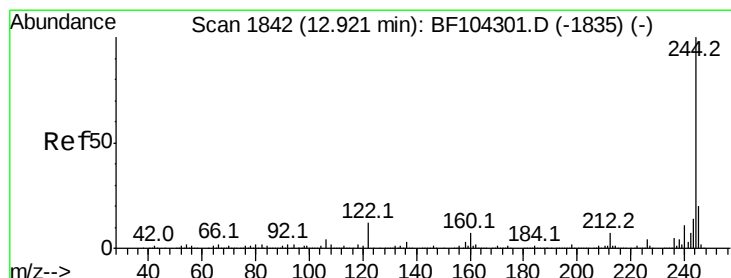
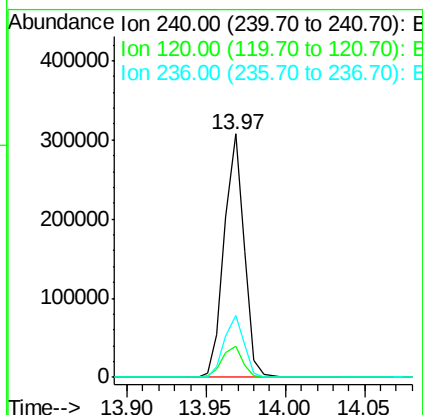
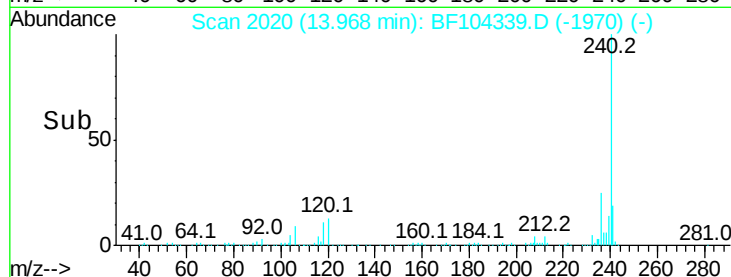
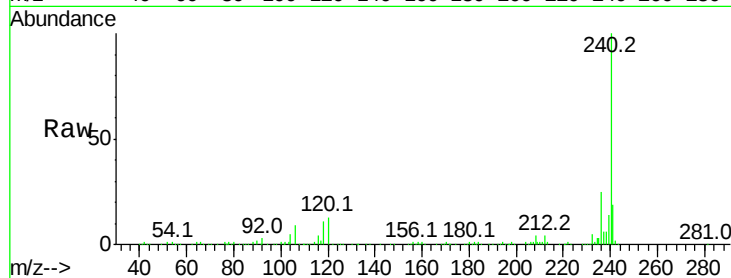
Tot Ion:240 Resp: 267134

Ion Ratio Lower Upper

240 100

120 12.7 9.5 14.3

236 25.4 20.7 31.1



#78

Terphenyl-d14

Concen: 84.257 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.00 min

Lab File: BF104339.D

Acq: 7 Apr 2018 6:20

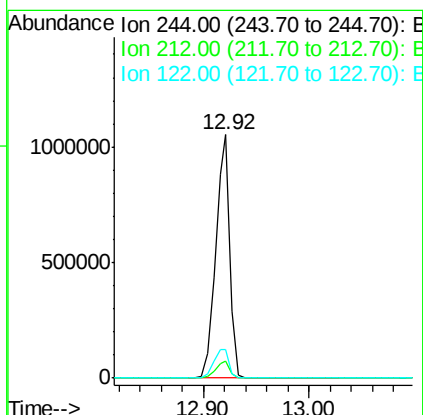
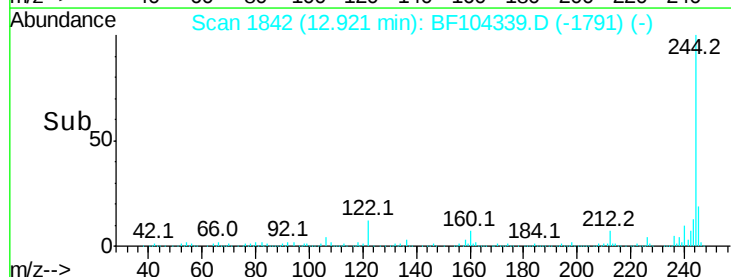
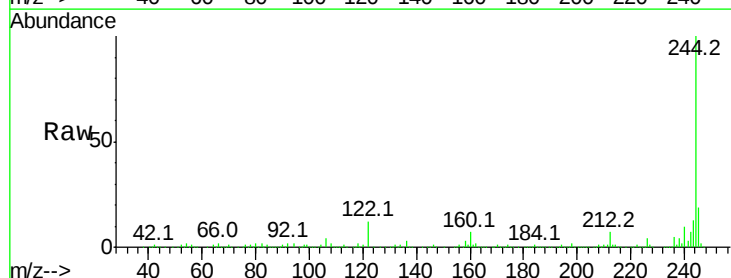
Tgt Ion:244 Resp: 987259

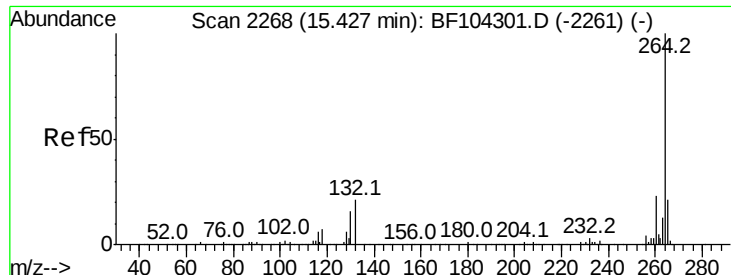
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 11.9 11.0 16.4

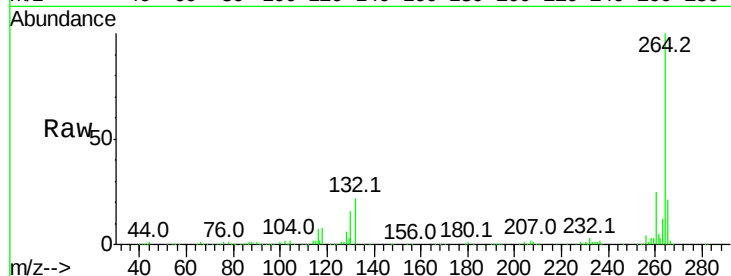




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.42 min Scan# 2267  
 Delta R.T. -0.01 min  
 Lab File: BF104339.D  
 Acq: 7 Apr 2018 6:20

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:264 Resp: 242167  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 19.2 28.8  
 265 21.1 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

