

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081518\  
 Data File : BF108171.D  
 Acq On : 15 Aug 2018 17:49  
 Operator : JU/SJ  
 Sample : PB112068BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB112068BL

Quant Time: Aug 16 01:49:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

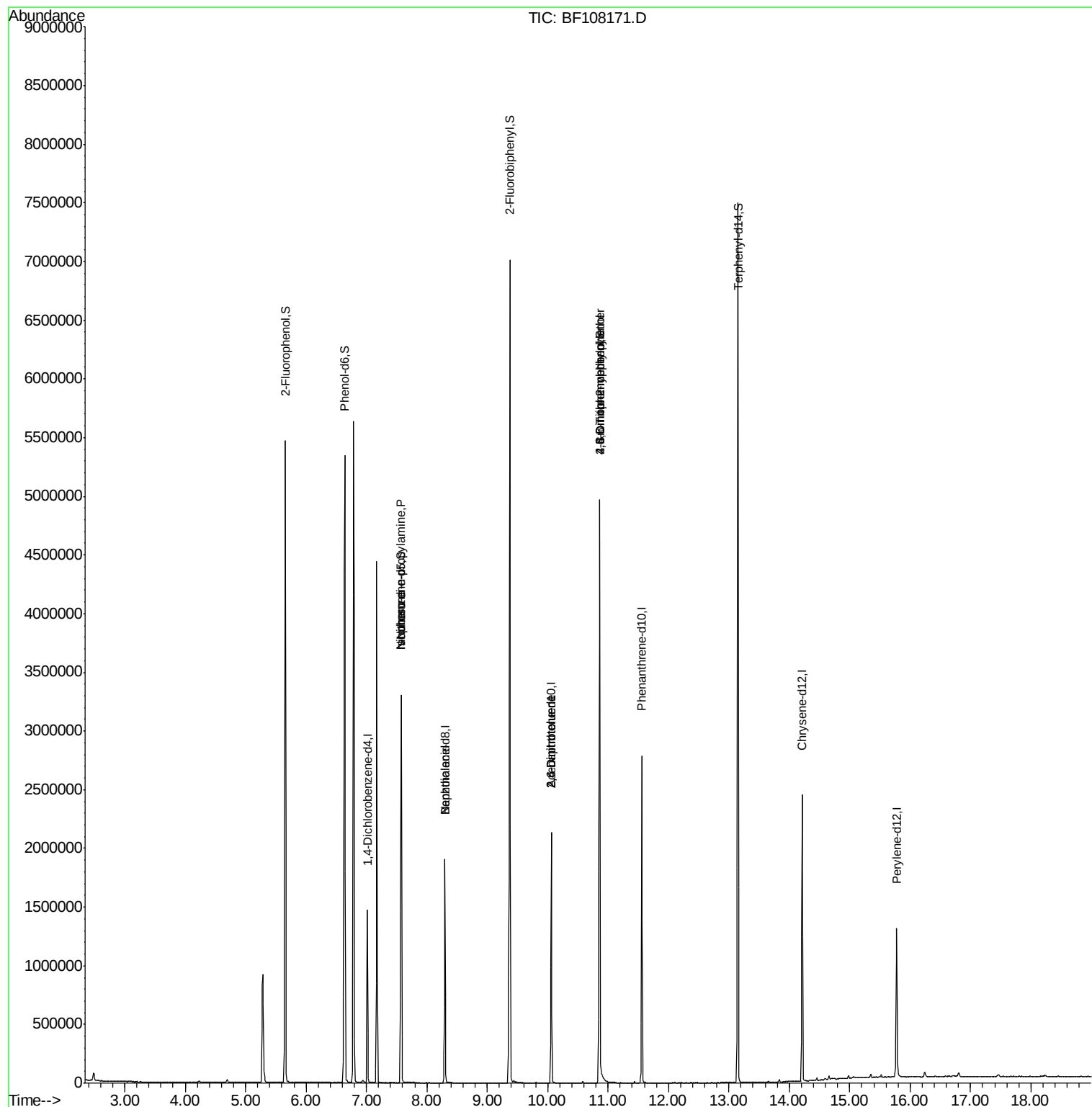
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.02  | 152  | 225084   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.30  | 136  | 880807   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.06 | 164  | 470900   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.56 | 188  | 977637   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.21 | 240  | 816372   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.78 | 264  | 646230   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.66  | 112  | 1467808  | 118.06 | ng    | 0.03     |
| 7) Phenol-d6                   | 6.64  | 99   | 1974828  | 119.53 | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 7.58  | 82   | 1367464  | 86.63  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.86 | 330  | 649953   | 138.37 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.38  | 172  | 2525559  | 86.11  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.15 | 244  | 2858277  | 89.02  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 188055   | 16.833 | ng    | # 84     |
| 25) Isophorone                 | 7.58  | 82   | 1358304  | 45.147 | ng    | # 64     |
| 32) Benzoic acid               | 8.30  | 122  | 108      | 5.987  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 10.06 | 165  | 60673    | 8.841  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 10.06 | 165  | 60673    | 6.868  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.86 | 198  | 1496     | 5.721  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.86 | 248  | 43946    | 4.136  | ng    | # 1      |

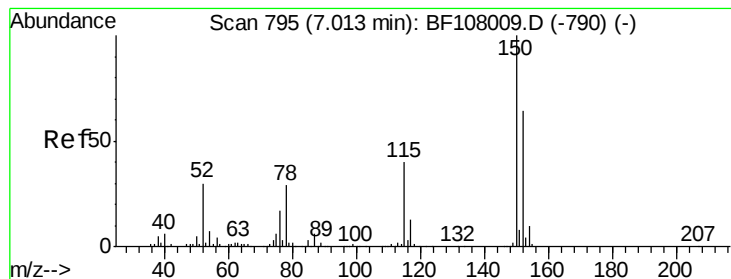
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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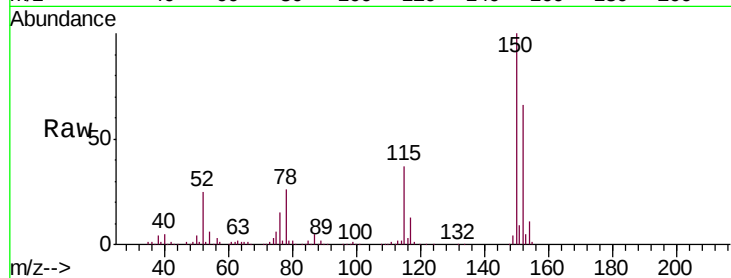


#1

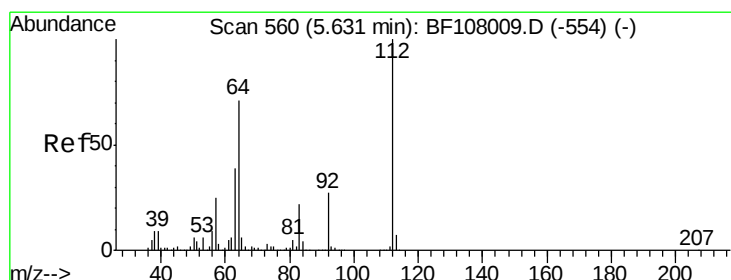
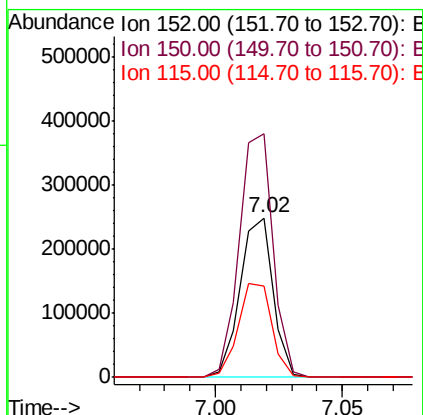
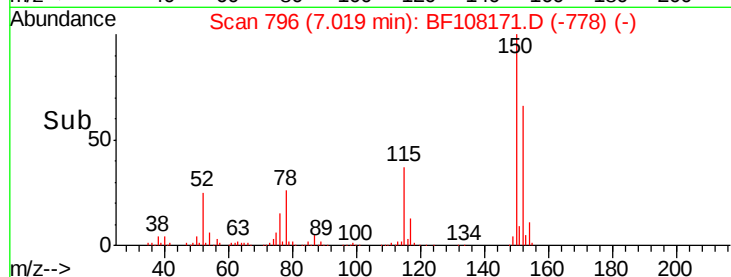
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108171.D  
Acq: 15 Aug 2018 17:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB112068BL

Tgt Ion:152 Resp: 225084  
Ion Ratio Lower Upper  
152 100  
150 152.5 124.6 186.8  
115 56.9 50.1 75.1



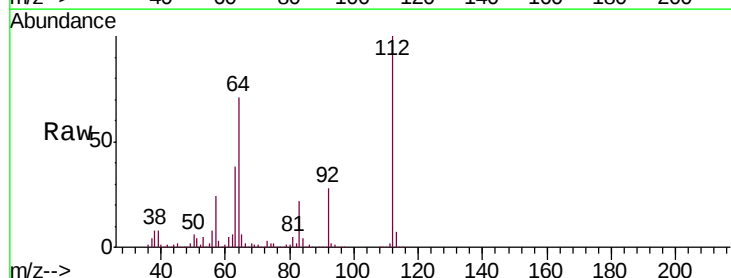
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



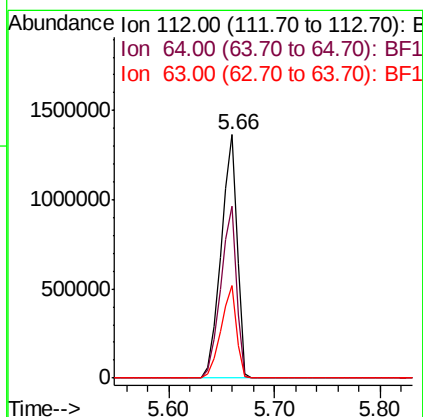
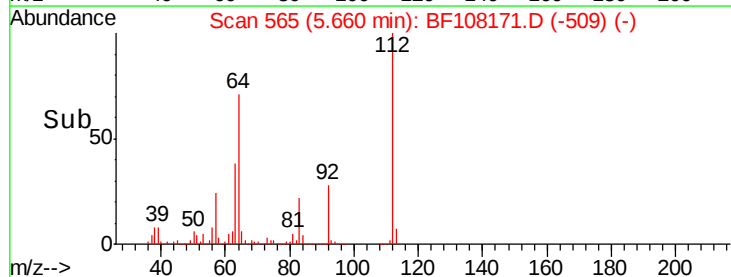
#5

2-Fluorophenol  
Concen: 118.063 ng  
RT: 5.66 min Scan# 565  
Delta R.T. 0.03 min  
Lab File: BF108171.D  
Acq: 15 Aug 2018 17:49

Tgt Ion:112 Resp: 1467808  
Ion Ratio Lower Upper  
112 100  
64 70.8 47.9 71.9  
63 38.2 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: 119.534 ng

RT: 6.64 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Instrument :

BNA\_F

ClientSampleId :

PB112068BL

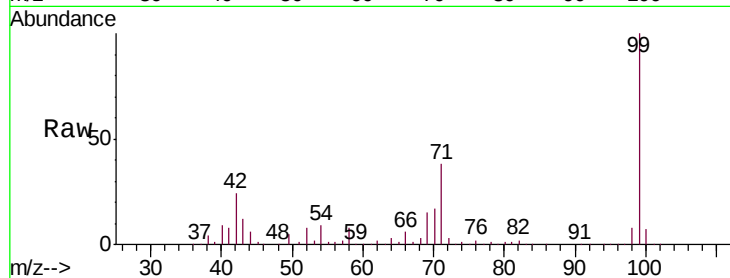
Tgt Ion: 99 Resp: 1974828

Ion Ratio Lower Upper

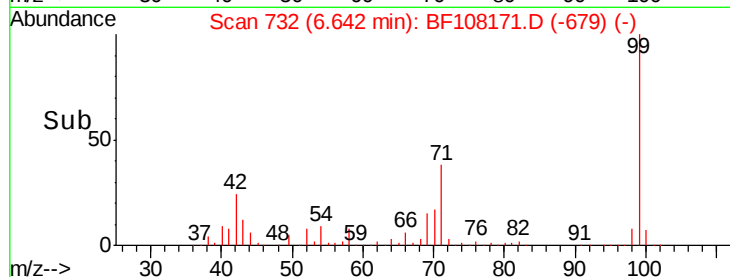
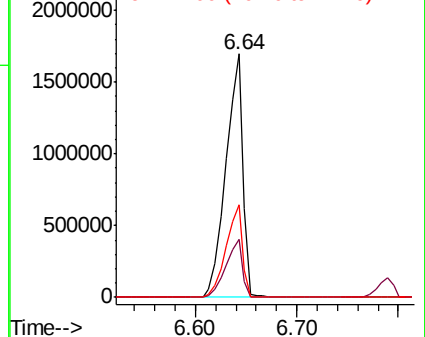
99 100

42 23.6 14.5 21.7#

71 38.1 25.4 38.0#



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 16.833 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Tgt Ion: 70 Resp: 188055

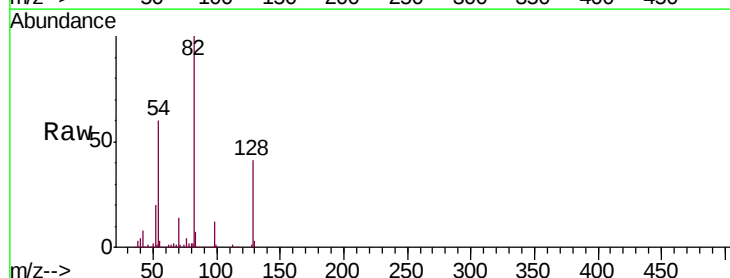
Ion Ratio Lower Upper

70 100

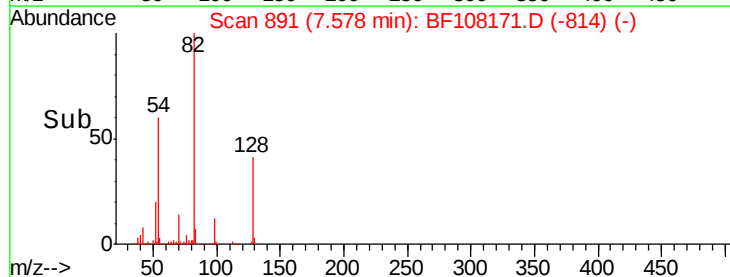
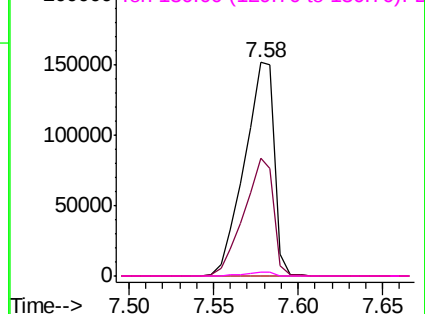
42 55.2 47.5 71.3

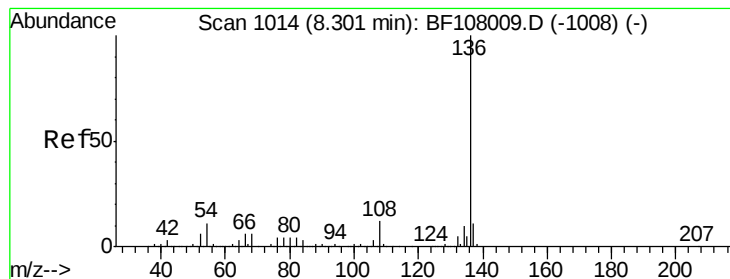
101 0.0 7.4 11.2#

130 1.9 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Instrument :

BNA\_F

ClientSampleId :

PB112068BL

Tgt Ion:136 Resp: 880807

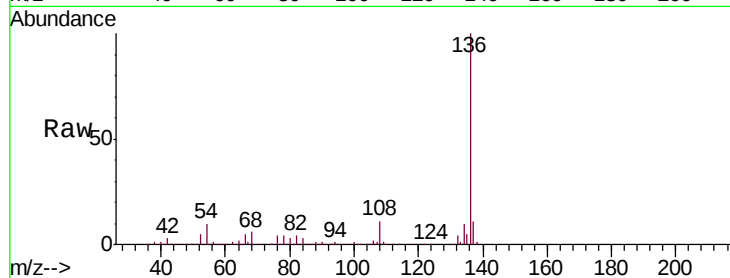
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.8 6.6 9.8

68 5.9 5.0 7.4

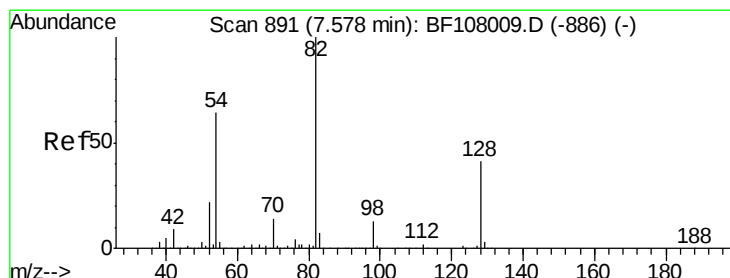
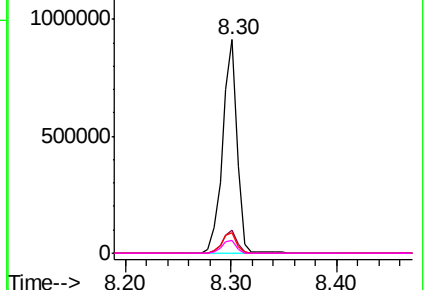
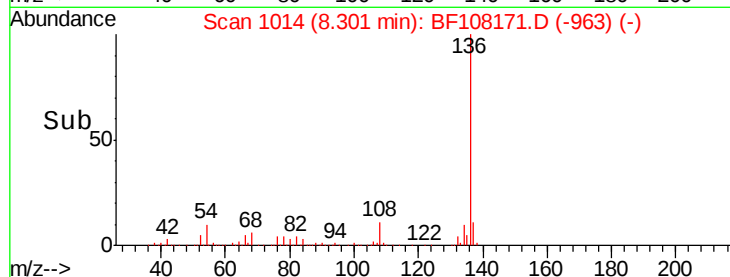


Abundance Ion 136.00 (135.70 to 136.70): E

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: 86.632 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

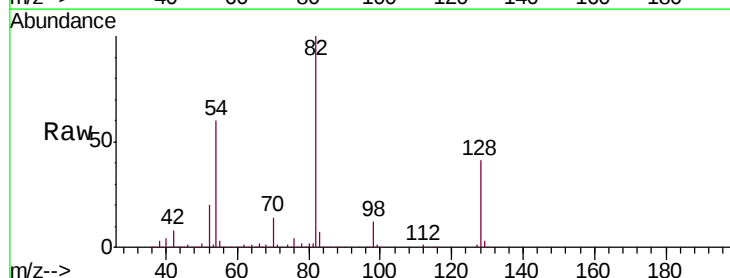
Tgt Ion: 82 Resp: 1367464

Ion Ratio Lower Upper

82 100

128 41.0 36.1 54.1

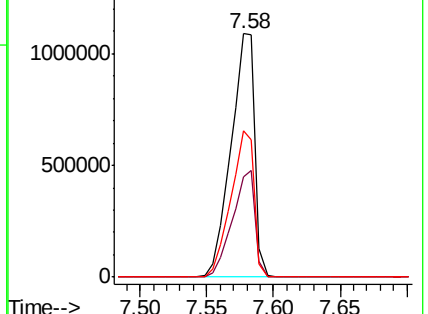
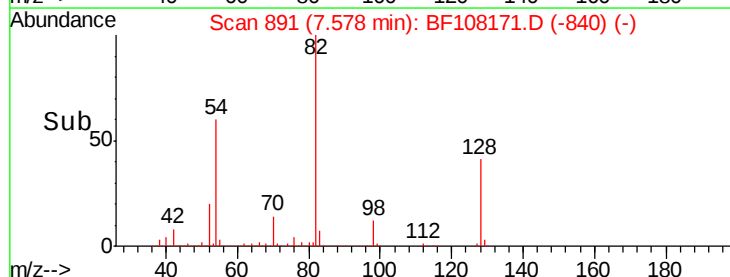
54 60.2 41.4 62.2



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: 45.147 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Instrument :

BNA\_F

ClientSampleId :

PB112068BL

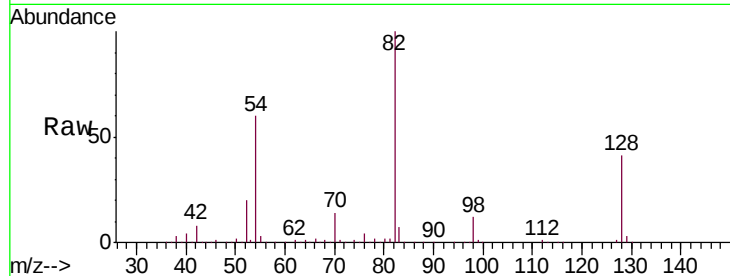
Tgt Ion: 82 Resp: 1358304

Ion Ratio Lower Upper

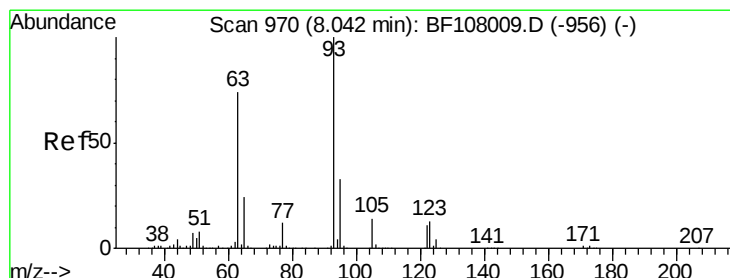
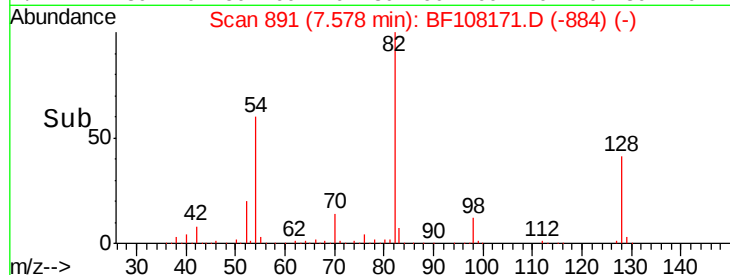
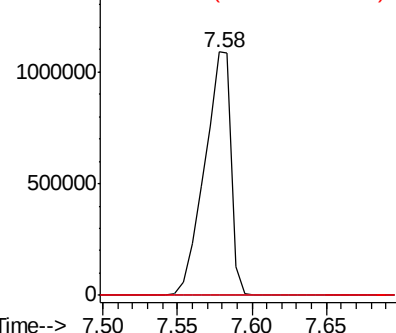
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
1500000  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): E



#32

Benzoic acid

Concen: 5.987 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.26 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

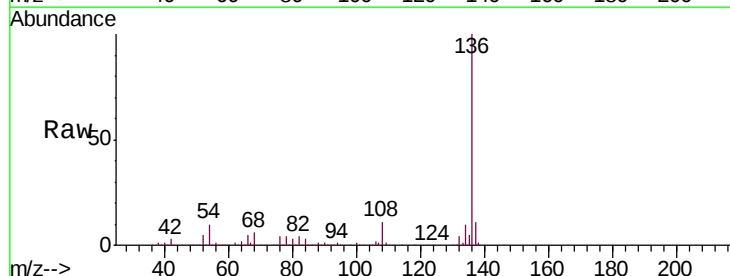
Tgt Ion:122 Resp: 108

Ion Ratio Lower Upper

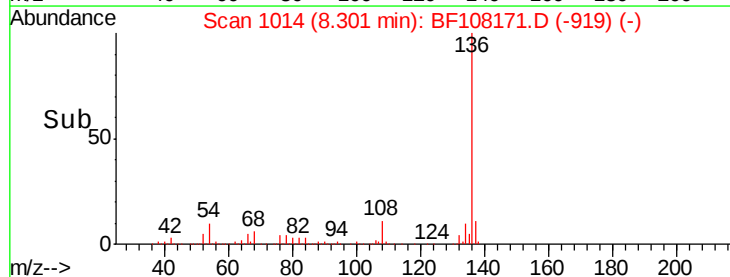
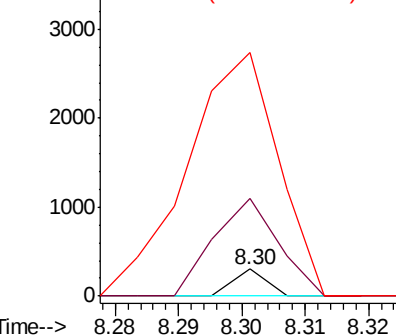
122 100

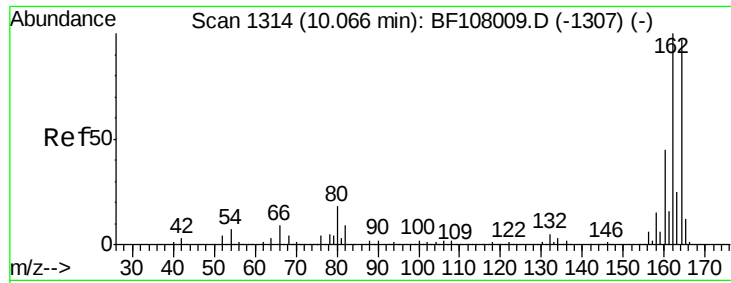
105 359.3 101.1 141.1#

77 897.4 70.7 110.7#



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): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Instrument :

BNA\_F

ClientSampleId :

PB112068BL

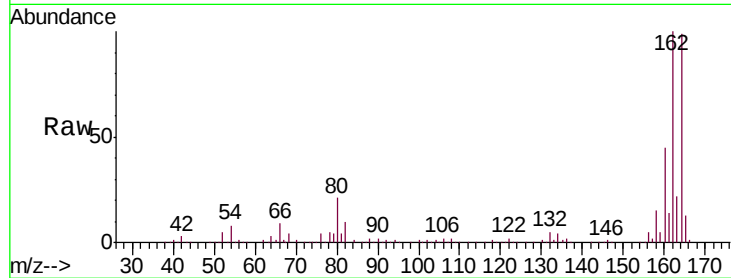
Tgt Ion:164 Resp: 470900

Ion Ratio Lower Upper

164 100

162 101.3 86.1 129.1

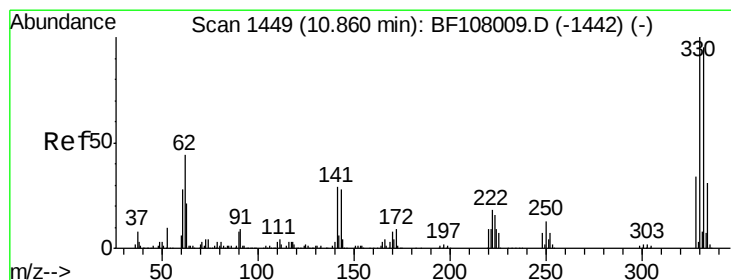
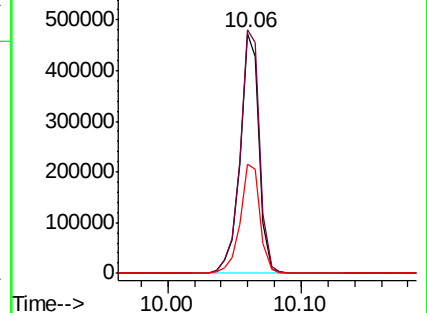
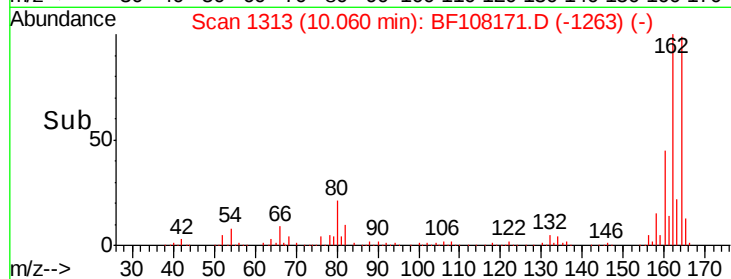
160 45.7 38.3 57.5



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: 138.373 ng

RT: 10.86 min Scan# 1449

Delta R.T. 0.00 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

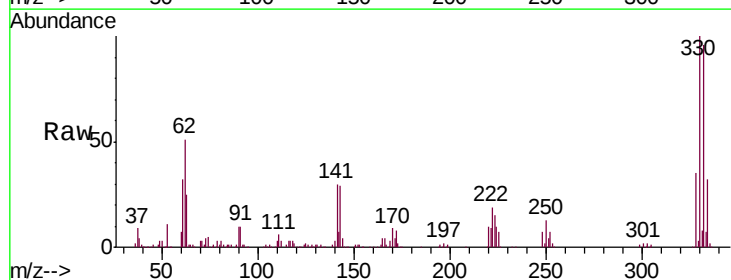
Tgt Ion:330 Resp: 649953

Ion Ratio Lower Upper

330 100

332 97.4 77.0 115.6

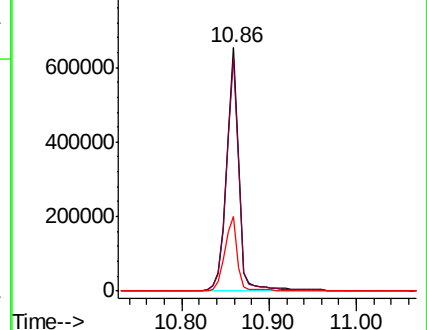
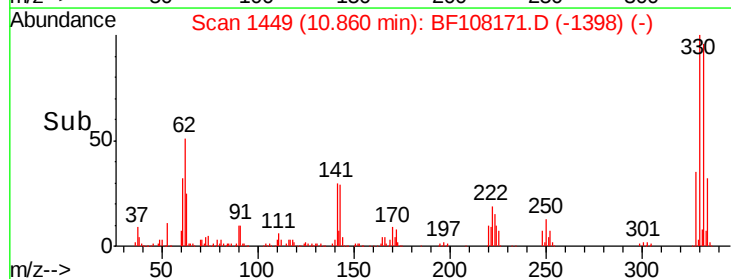
141 31.9 29.9 44.9

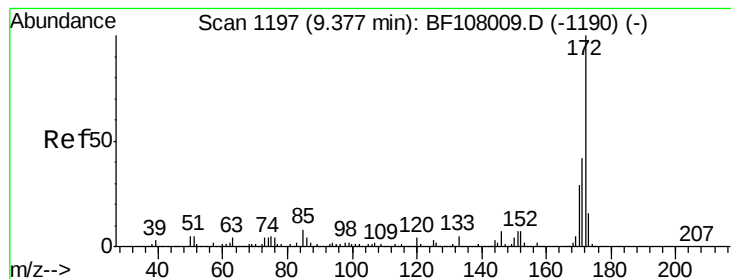


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

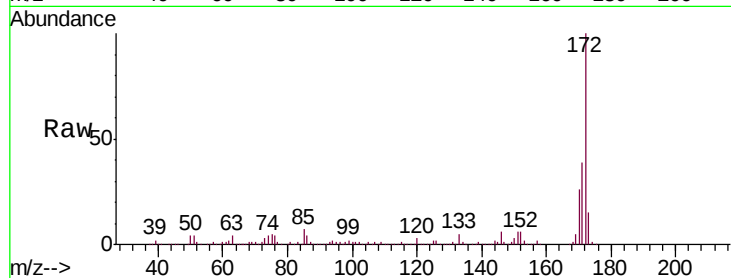




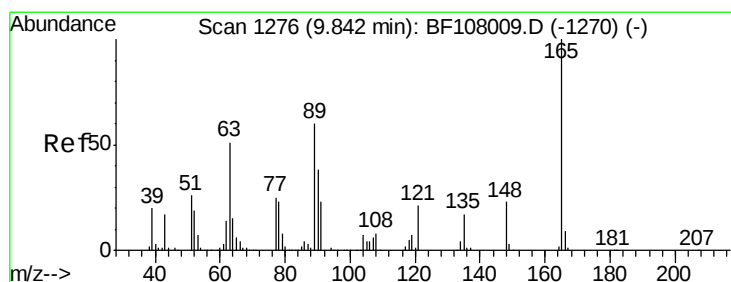
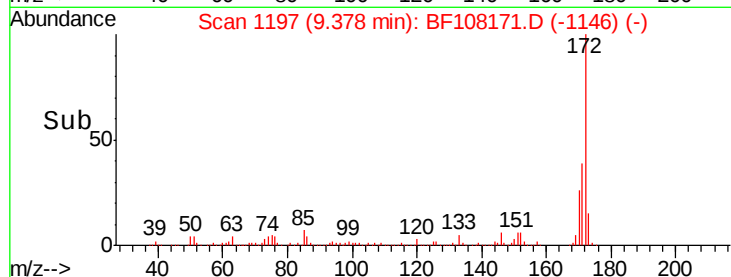
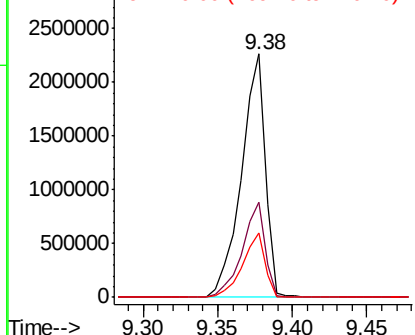
#44  
 2-Fluorobiphenyl  
 Concen: 86.105 ng  
 RT: 9.38 min Scan# 1197  
 Delta R.T. 0.00 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

Instrument :  
 BNA\_F  
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 PB112068BL

Tgt Ion:172 Resp: 2525559  
 Ion Ratio Lower Upper  
 172 100  
 171 38.9 29.7 44.5  
 170 26.2 19.6 29.4

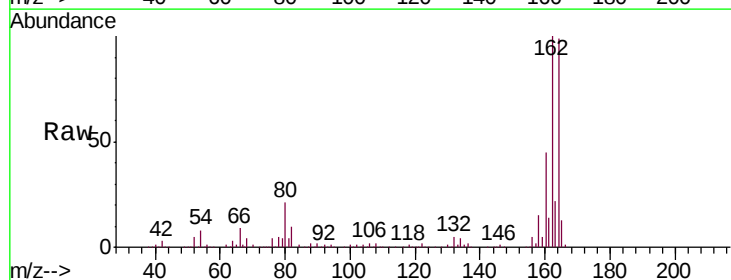


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

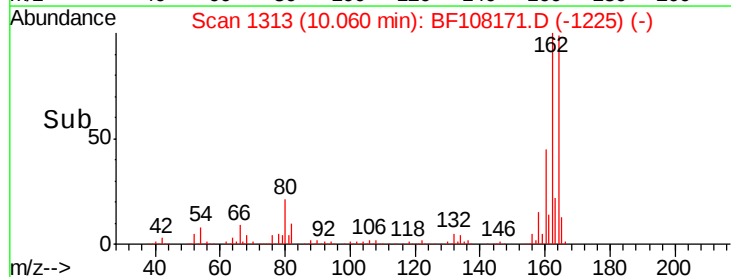
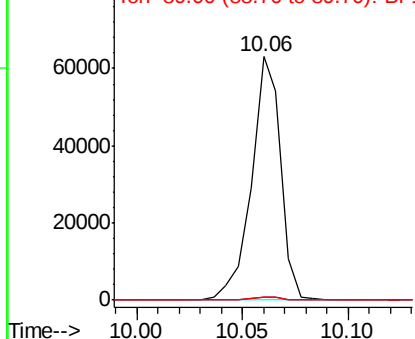


#50  
 2,6-Dinitrotoluene  
 Concen: 8.841 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. 0.22 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

Tgt Ion:165 Resp: 60673  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 44.7 67.1#  
 89 1.1 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

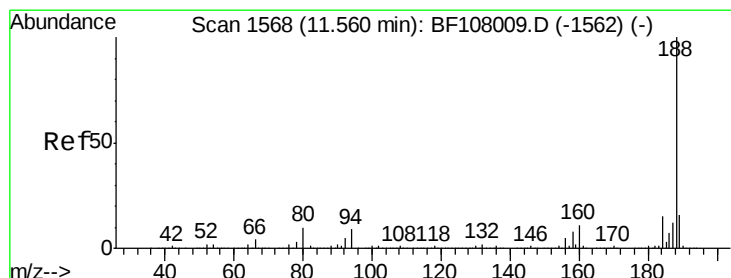
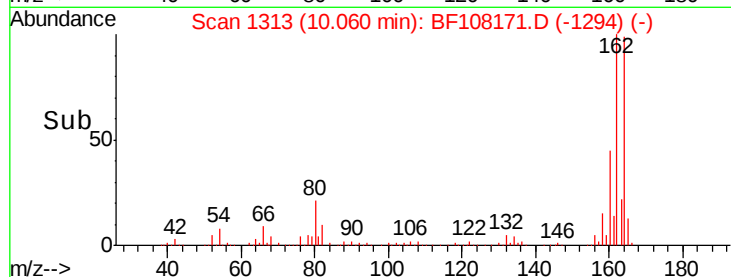
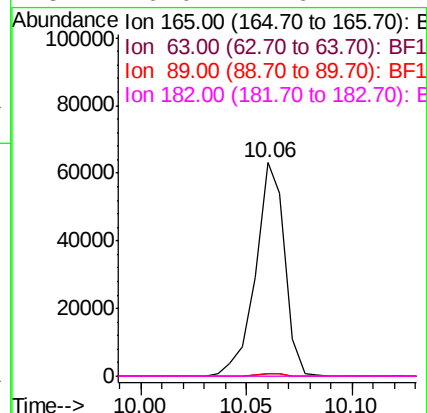
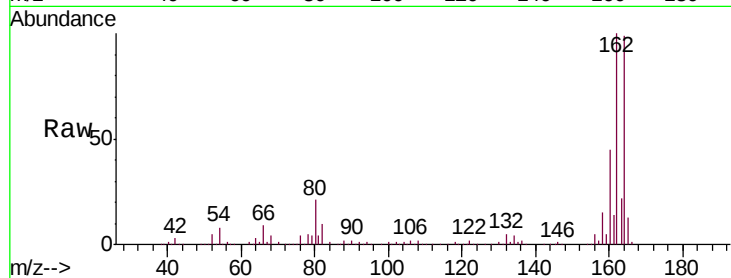




#56  
 2,4-Dinitrotoluene  
 Concen: 6.868 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. -0.19 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

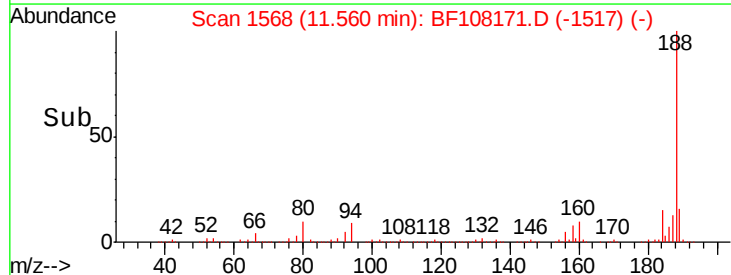
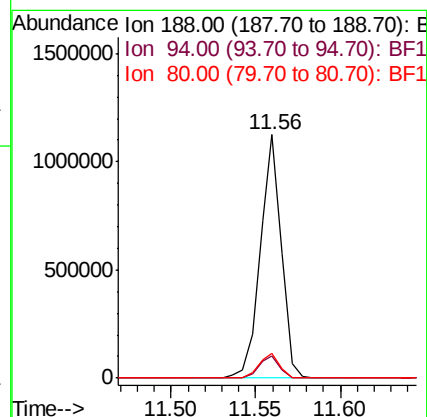
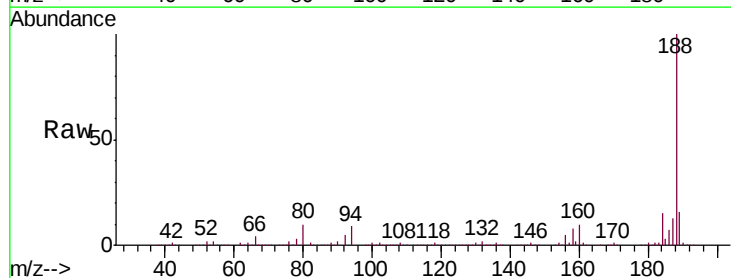
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB112068BL

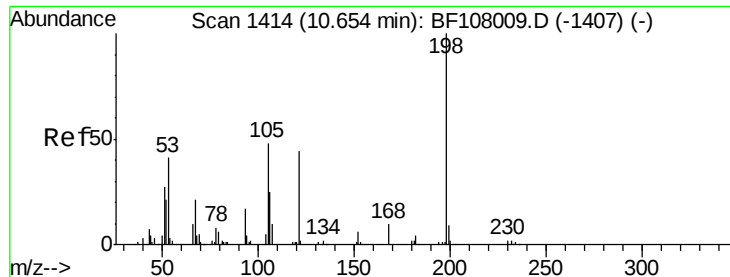
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.1   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.56 min Scan# 1568  
 Delta R.T. 0.00 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.1   | 8.5   | 12.7  |
| 80      | 9.9   | 9.2   | 13.8  |

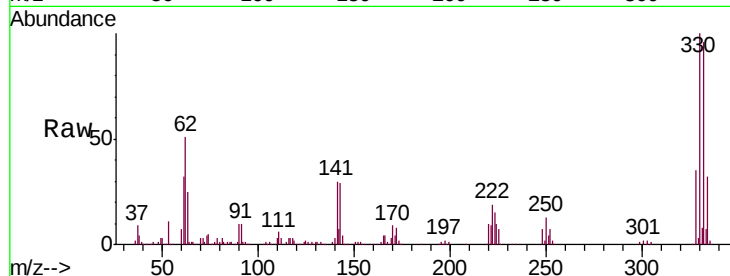




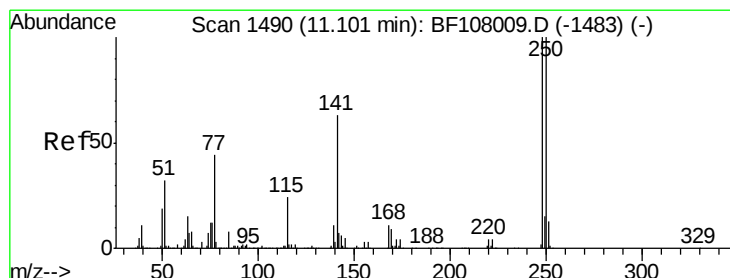
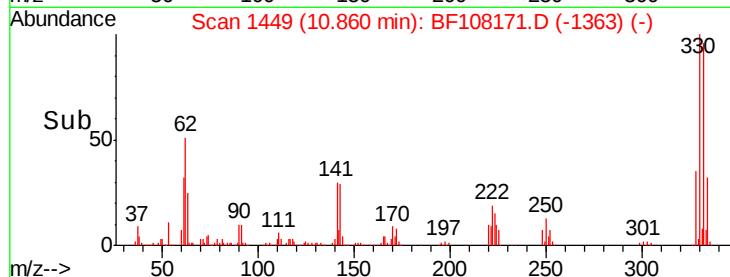
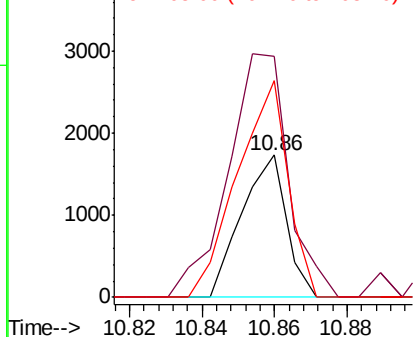
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.721 ng  
 RT: 10.86 min Scan# 1449  
 Delta R.T. 0.21 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB112068BL

Tgt Ion:198 Resp: 1496  
 Ion Ratio Lower Upper  
 198 100  
 51 169.5 37.7 77.7#  
 105 153.1 36.3 76.3#

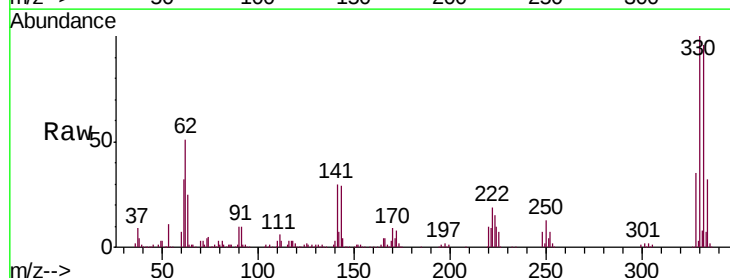


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

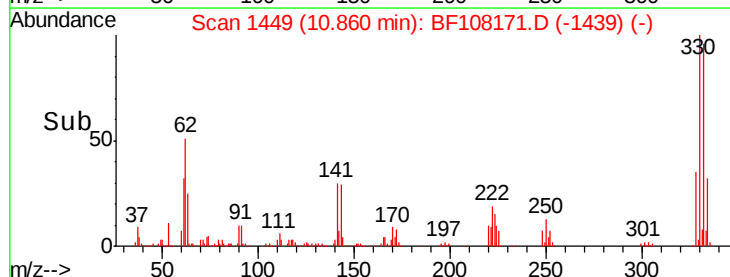
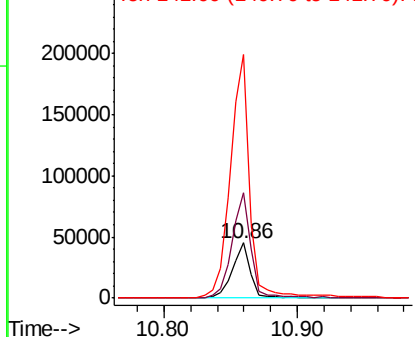


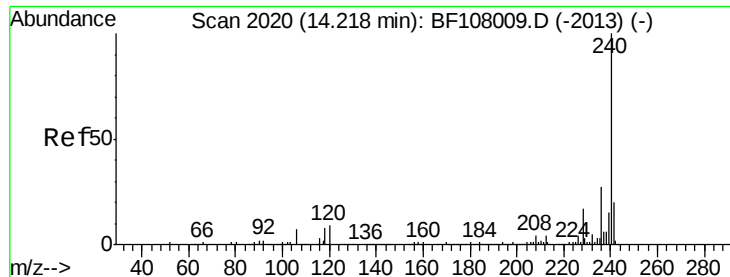
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.136 ng  
 RT: 10.86 min Scan# 1449  
 Delta R.T. -0.24 min  
 Lab File: BF108171.D  
 Acq: 15 Aug 2018 17:49

Tgt Ion:248 Resp: 43946  
 Ion Ratio Lower Upper  
 248 100  
 250 190.7 76.9 115.3#  
 141 441.1 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: 14.21 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

Instrument :

BNA\_F

ClientSampleId :

PB112068BL

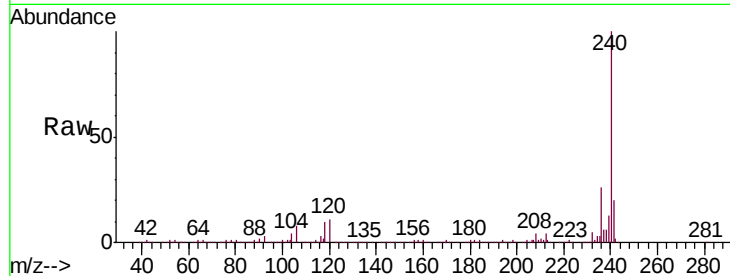
Tgt Ion:240 Resp: 816372

Ion Ratio Lower Upper

240 100

120 10.5 9.5 14.3

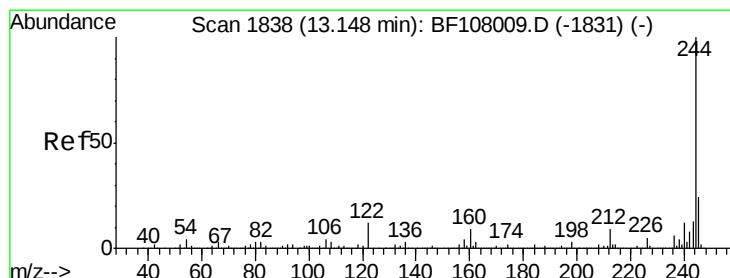
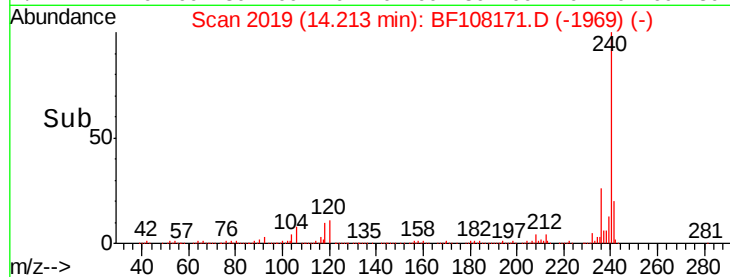
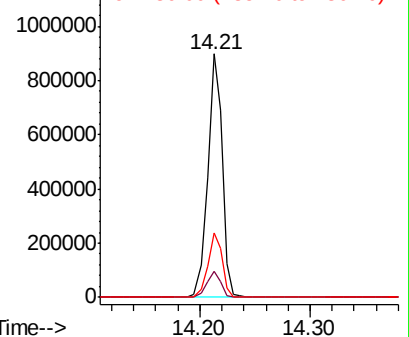
236 26.3 20.7 31.1



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: 89.020 ng

RT: 13.15 min Scan# 1839

Delta R.T. 0.01 min

Lab File: BF108171.D

Acq: 15 Aug 2018 17:49

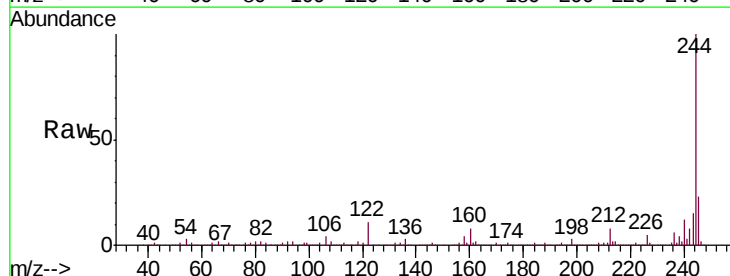
Tgt Ion:244 Resp: 2858277

Ion Ratio Lower Upper

244 100

212 8.2 5.4 8.0#

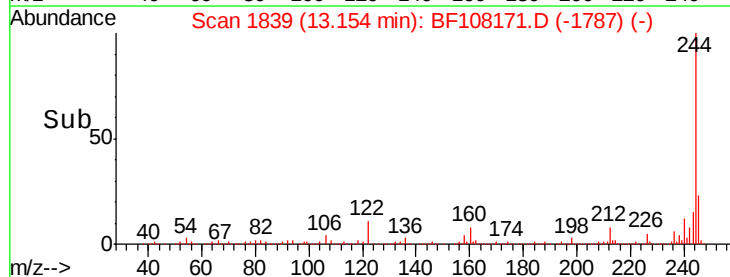
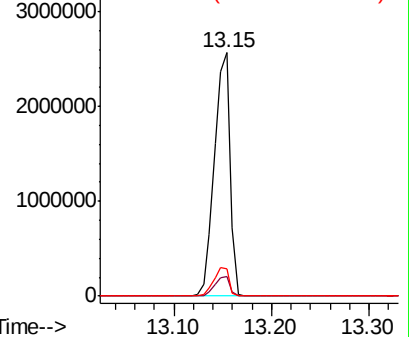
122 11.1 11.0 16.4

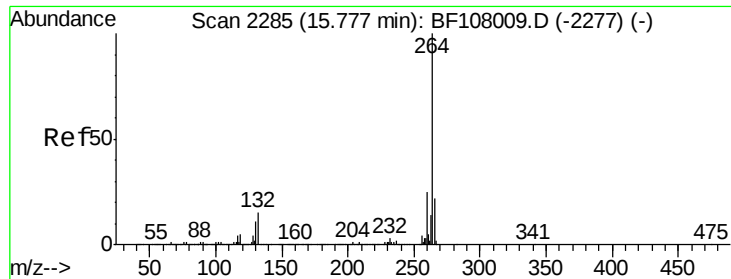


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.78 min Scan# 2285  
Delta R.T. 0.00 min  
Lab File: BF108171.D  
Acq: 15 Aug 2018 17:49

Instrument :  
BNA\_F  
ClientSampleId :  
PB112068BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.2  | 28.8  |
| 265     | 22.1  | 17.5  | 26.3  |

