

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031218\  
 Data File : BF103591.D  
 Acq On : 12 Mar 2018 19:29  
 Operator : SJ/JU  
 Sample : J1867-04  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 13 01:19:39 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 11:47:13 2018  
 Response via : Initial Calibration

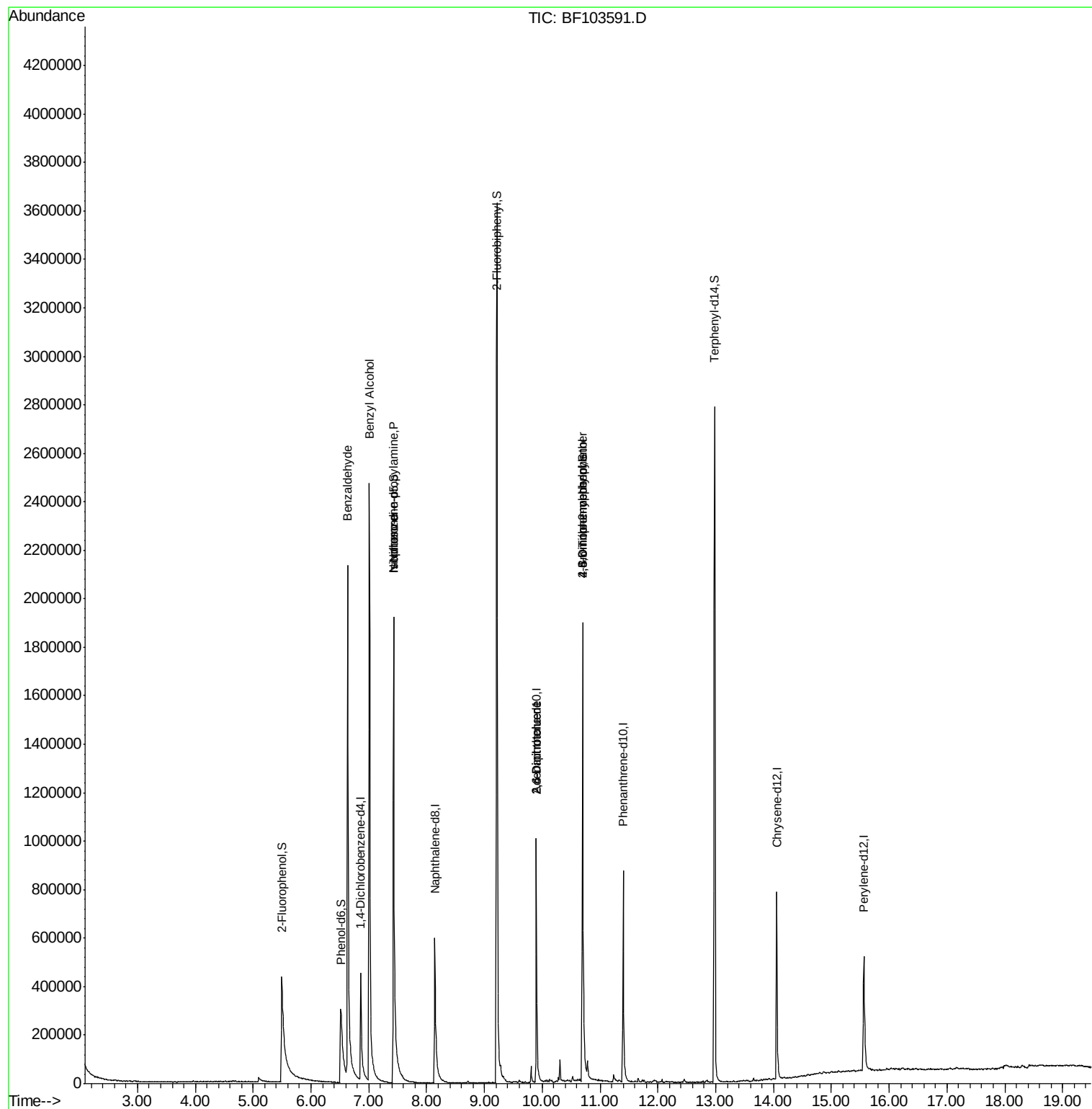
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 120993   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 540725   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 234141   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.40 | 188  | 428627   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.06 | 240  | 337759   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.56 | 264  | 288218   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 457168   | 57.15  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 380390   | 38.86  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 981813   | 103.69 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 265772   | 134.10 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 1411281  | 111.89 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 1176376  | 83.72  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.63  | 77   | 21162    | 2.326  | ng    | # 68     |
| 15) Benzyl Alcohol             | 7.01  | 79   | 15130    | 2.051  | ng    | # 37     |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 126020   | 20.685 | ng    | # 81     |
| 25) Isophorone                 | 7.43  | 82   | 985838   | 52.865 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 29374    | 7.452  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.90  | 165  | 29374    | 5.892  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 590      | 5.148  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 17828    | 3.993  | ng    | # 1      |

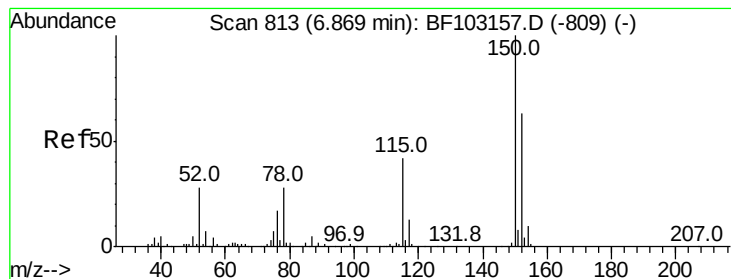
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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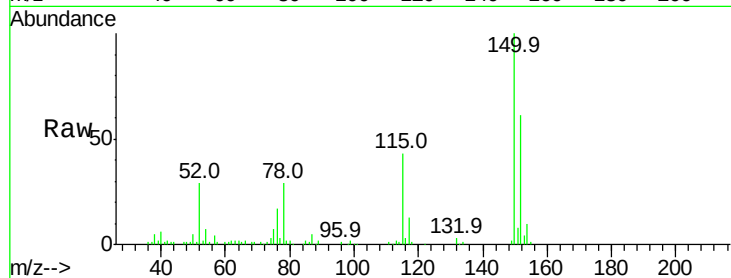


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.0 | 124.6 | 186.8 |
| 115     | 70.9  | 50.1  | 75.1  |

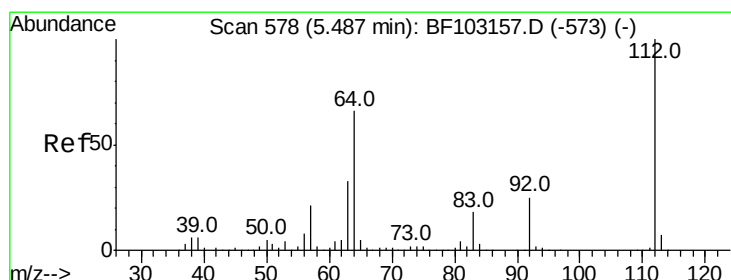
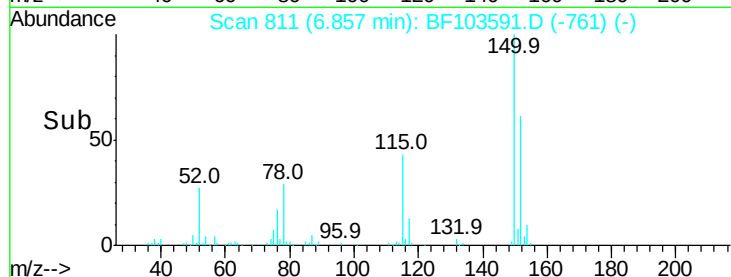
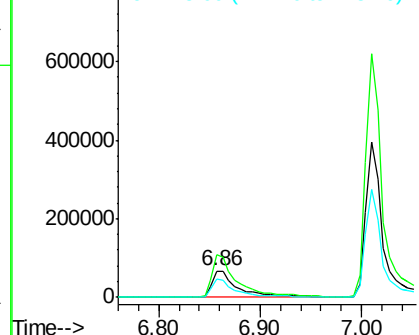


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

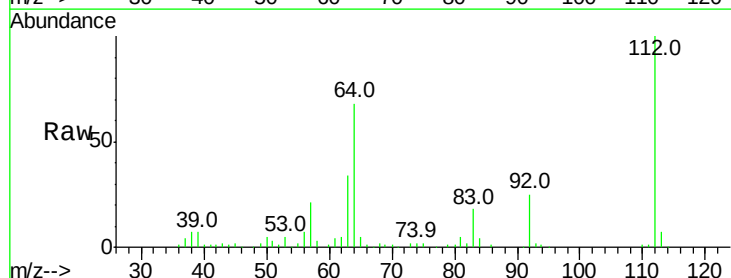
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 57.147 ng  
RT: 5.49 min Scan# 579  
Delta R.T. 0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.8  | 47.9  | 71.9  |
| 63      | 34.2  | 23.7  | 35.5  |

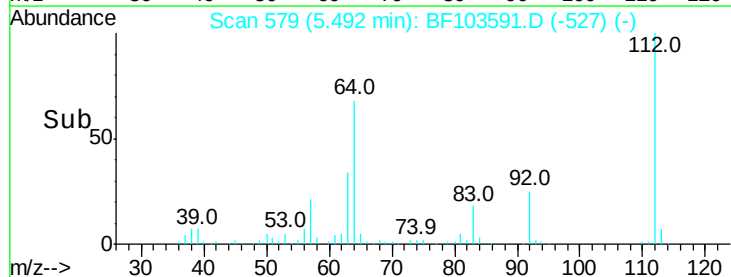
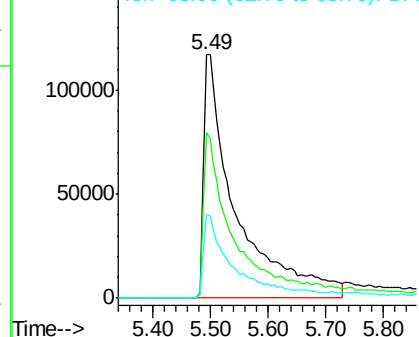


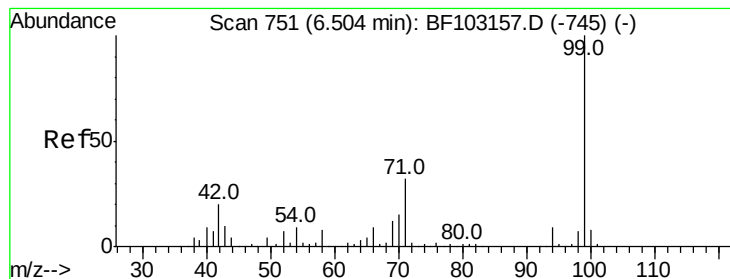
Abundance

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: 38.859 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

Instrument :

BNA\_F

ClientSampleId :

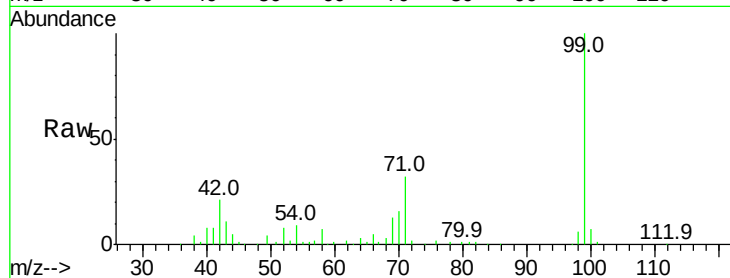
Tot Ion: 99 Resp: 380390

Ion Ratio Lower Upper

99 100

42 20.9 14.5 21.7

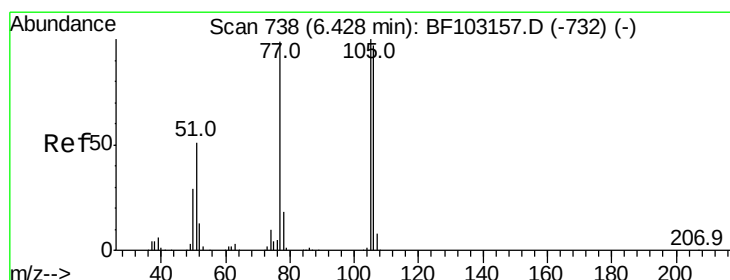
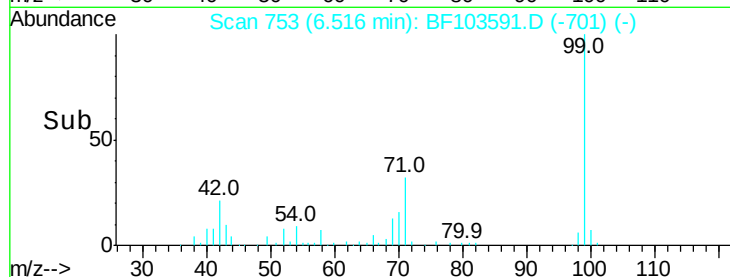
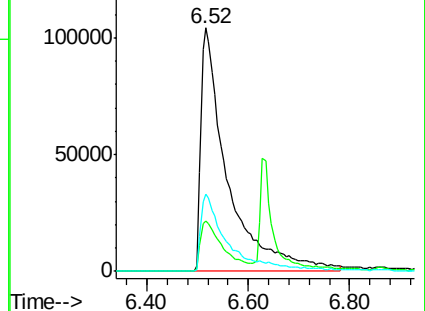
71 31.9 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.326 ng

RT: 6.63 min Scan# 773

Delta R.T. 0.21 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

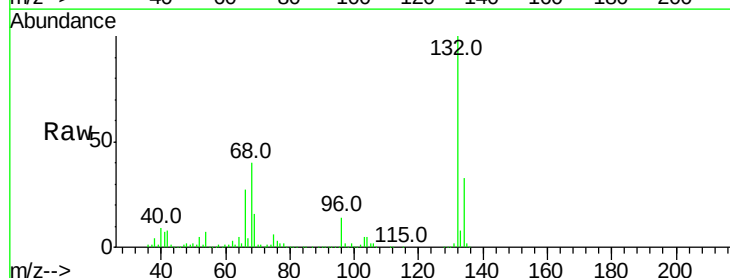
Tgt Ion: 77 Resp: 21162

Ion Ratio Lower Upper

77 100

105 68.0 81.1 121.1#

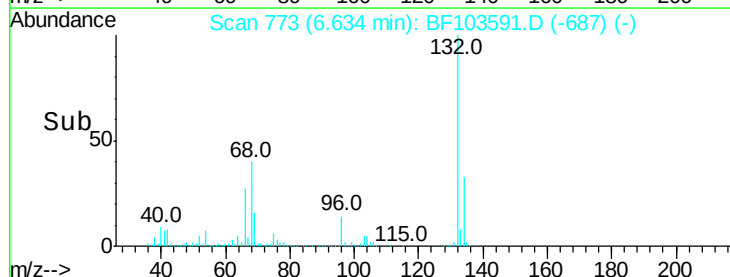
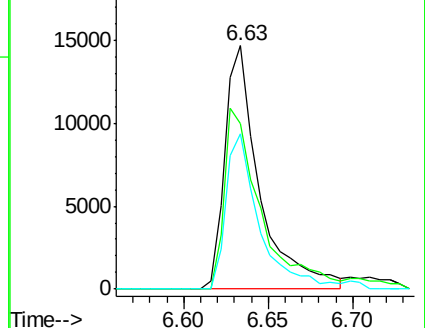
106 63.6 74.5 114.5#

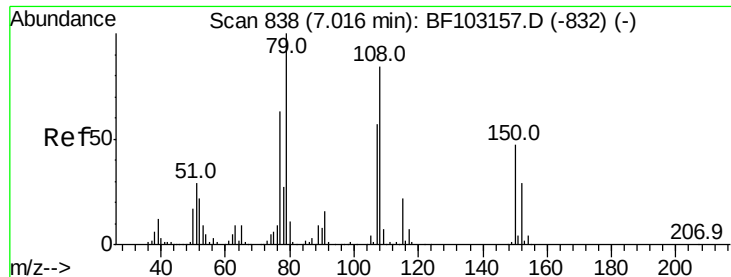


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1





#15

Benzyl Alcohol

Concen: 2.051 ng

RT: 7.01 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

Instrument :

BNA\_F

ClientSampleId :

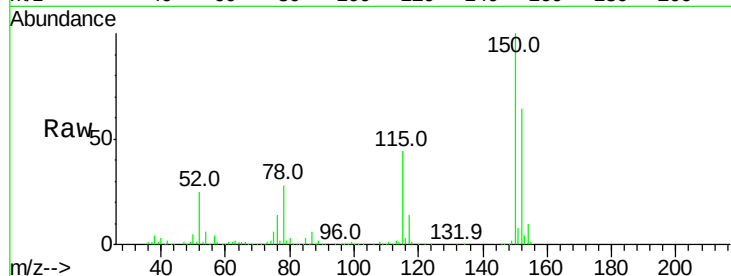
Tot Ion: 79 Resp: 15130

Ion Ratio Lower Upper

79 100

108 31.7 65.1 97.7#

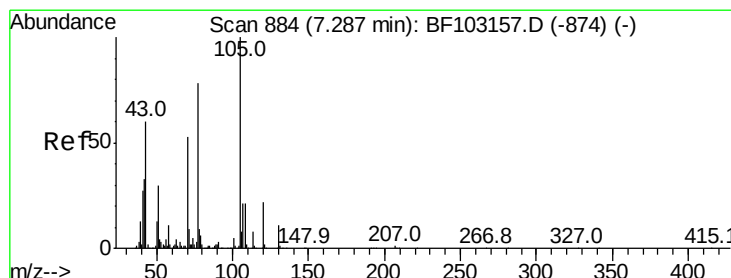
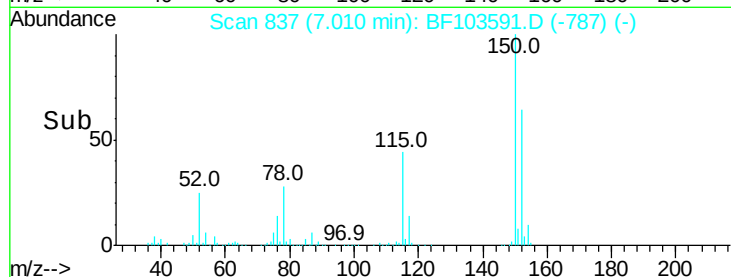
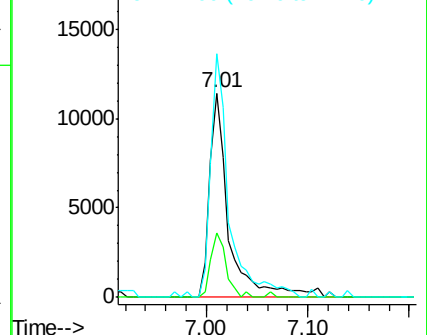
77 119.2 50.6 75.8#



Abundance Ion 79.00 (78.70 to 79.70): BF1

Ion 108.00 (107.70 to 108.70): BF1

Ion 77.00 (76.70 to 77.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 20.685 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.15 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

Tgt Ion: 70 Resp: 126020

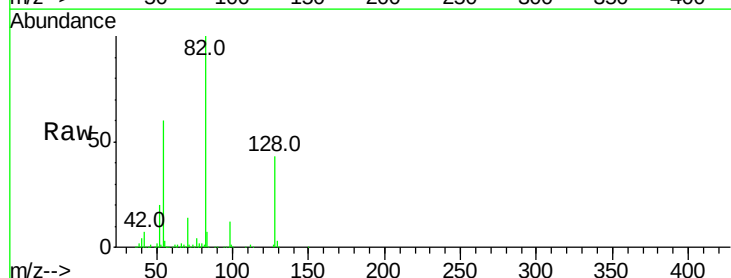
Ion Ratio Lower Upper

70 100

42 51.0 47.5 71.3

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#

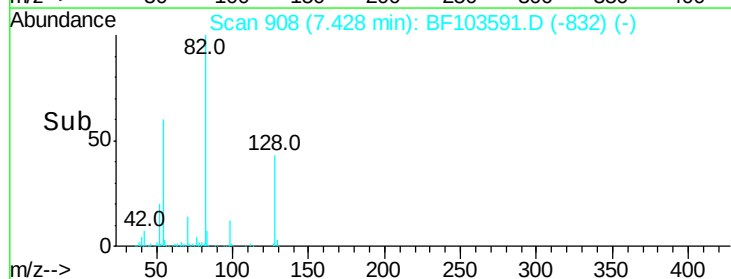
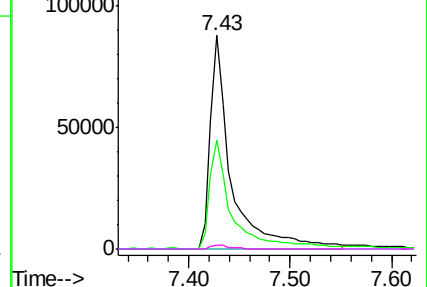


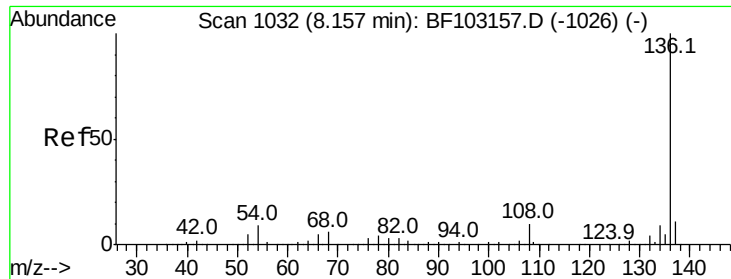
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

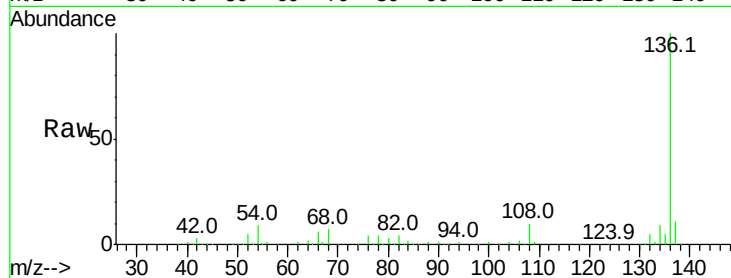




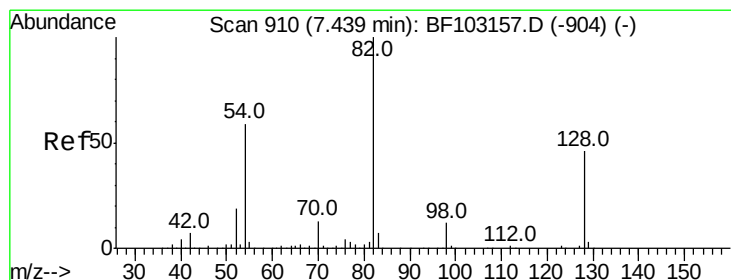
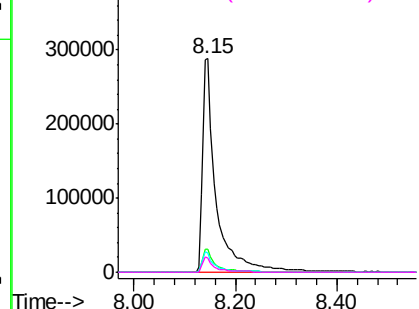
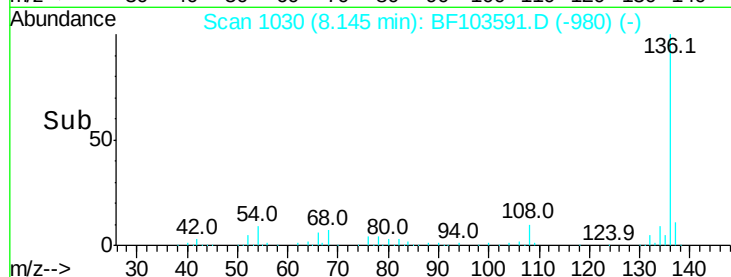
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 540725 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.9   | 13.3   |
| 54       | 8.8   | 6.6   | 9.8    |
| 68       | 6.6   | 5.0   | 7.4    |

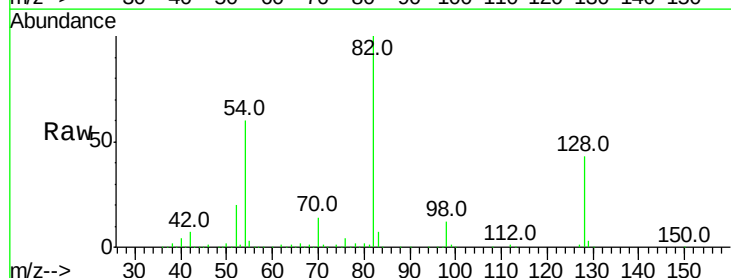


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

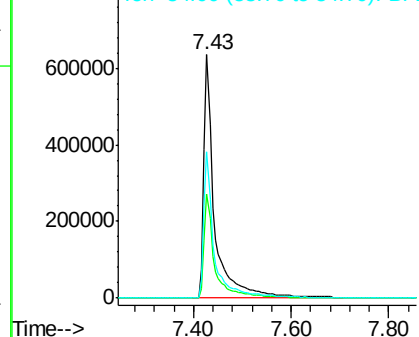
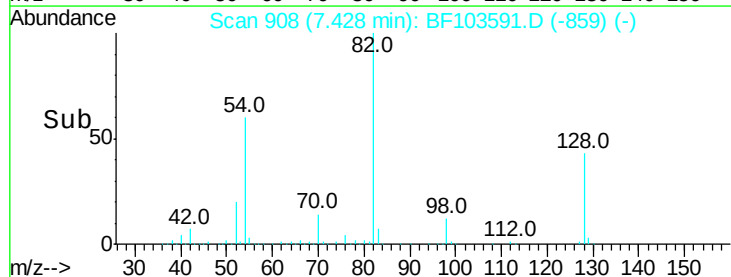


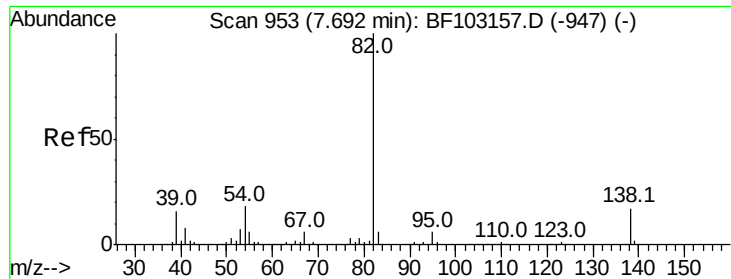
#23  
Nitrobenzene-d5  
Concen: 103.694 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 981813 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.9  | 36.1  | 54.1   |
| 54       | 60.1  | 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: 52.865 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.26 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

Instrument :

BNA\_F

ClientSampleId :

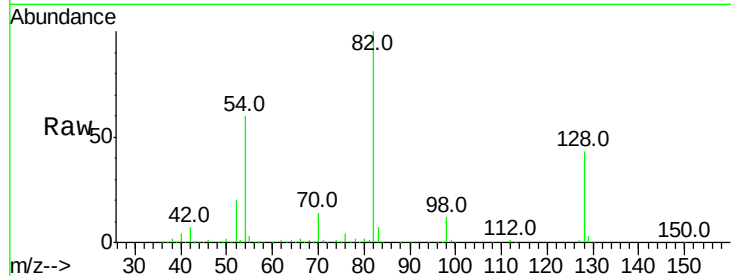
Tot Ion: 82 Resp: 985838

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

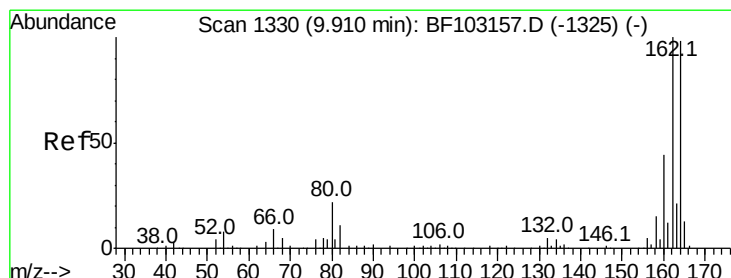
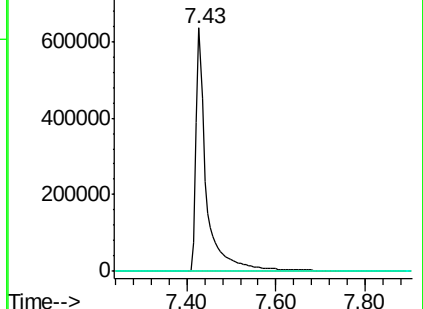
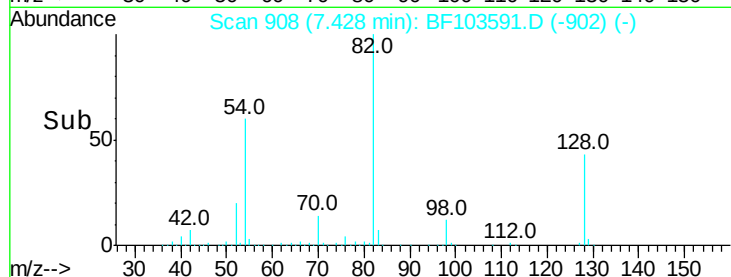
138 0.0 14.9 22.3#



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: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

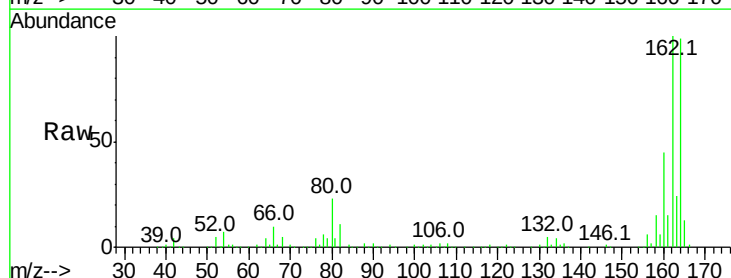
Tgt Ion: 164 Resp: 234141

Ion Ratio Lower Upper

164 100

162 101.4 86.1 129.1

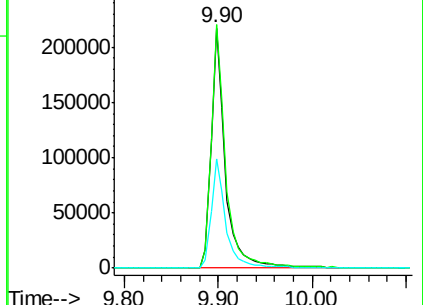
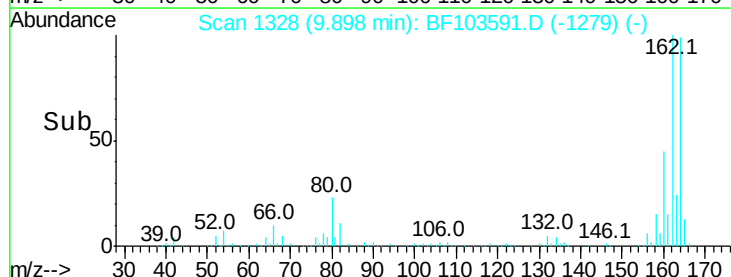
160 45.4 38.3 57.5

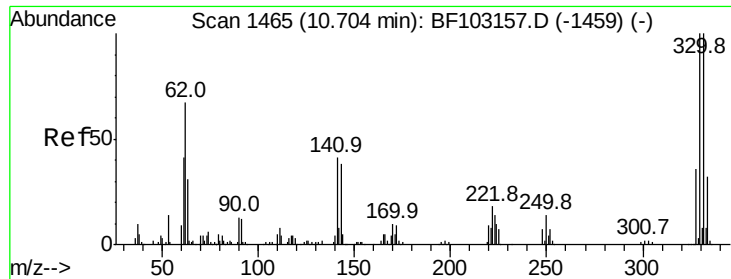


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

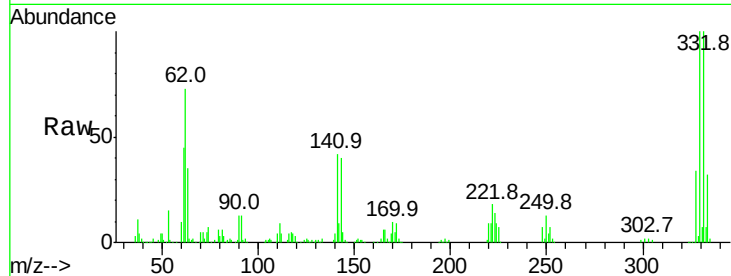




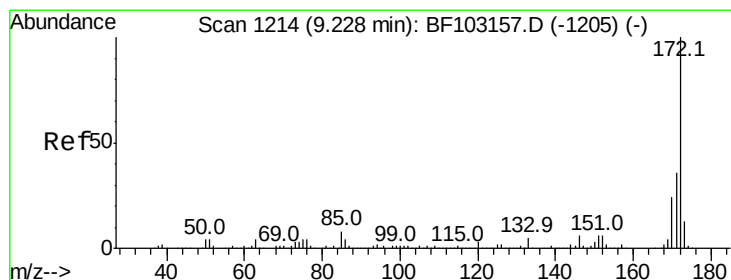
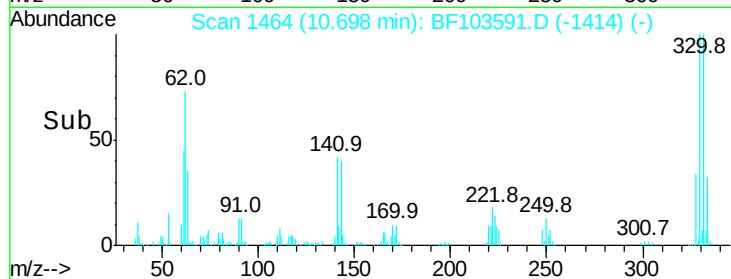
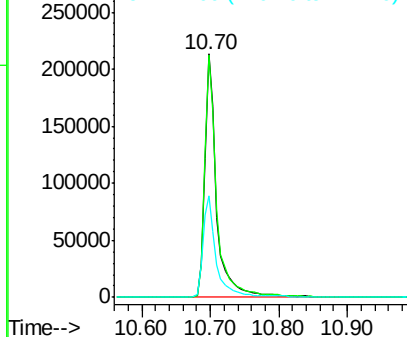
#41  
 2,4,6-Tribromophenol  
 Concen: 134.101 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. -0.01 min  
 Lab File: BF103591.D  
 Acq: 12 Mar 2018 19:29

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 265772  
 Ion Ratio Lower Upper  
 330 100  
 332 101.5 77.0 115.6  
 141 46.9 29.9 44.9#

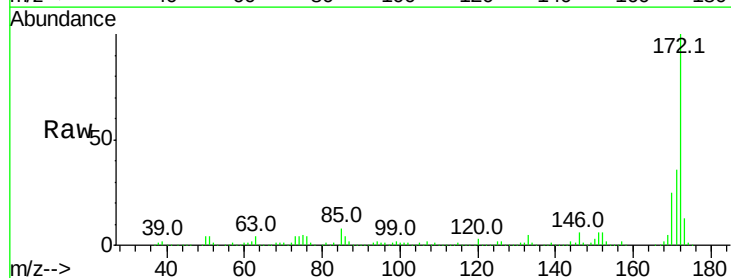


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

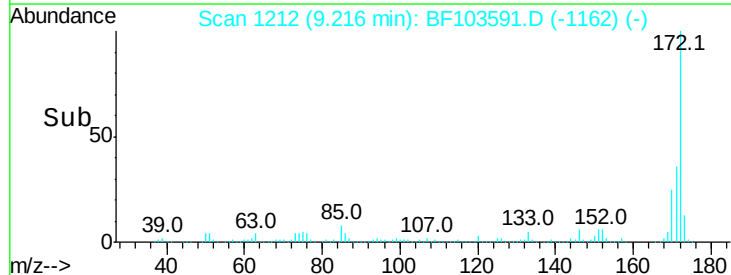
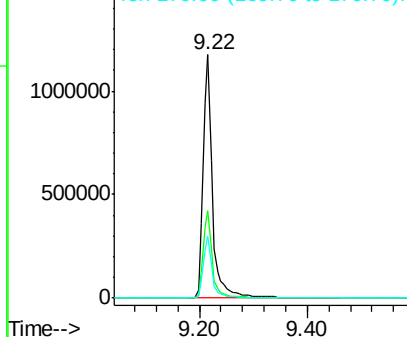


#44  
 2-Fluorobiphenyl  
 Concen: 111.886 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.01 min  
 Lab File: BF103591.D  
 Acq: 12 Mar 2018 19:29

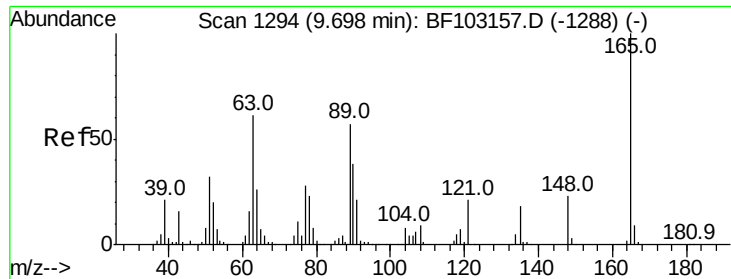
Tgt Ion:172 Resp: 1411281  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.7 44.5  
 170 25.2 19.6 29.4



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



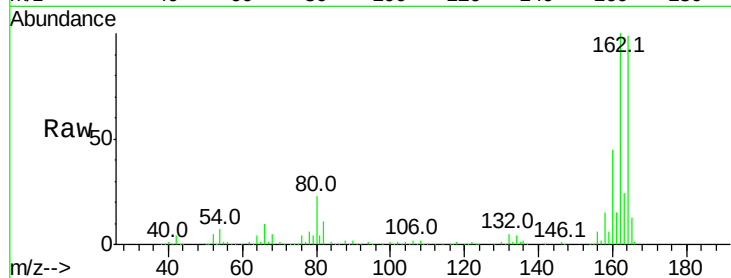




#50  
 2,6-Dinitrotoluene  
 Concen: 7.452 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. 0.19 min  
 Lab File: BF103591.D  
 Acq: 12 Mar 2018 19:29

Instrument :  
 BNA\_F  
 ClientSampleId :

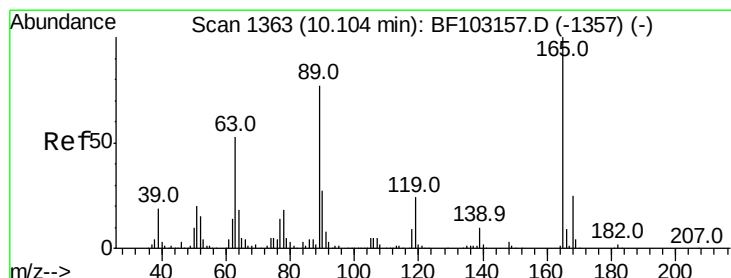
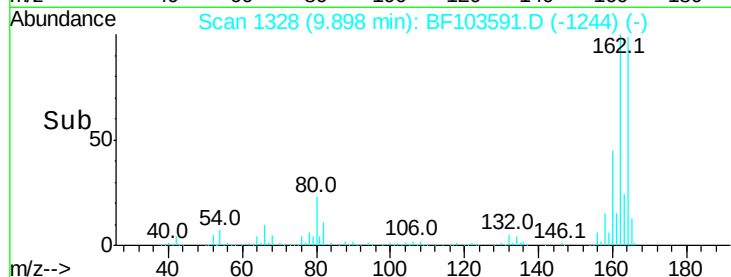
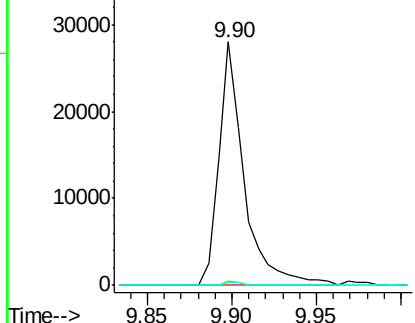
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 44.7  | 67.1# |
| 89      | 1.1   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

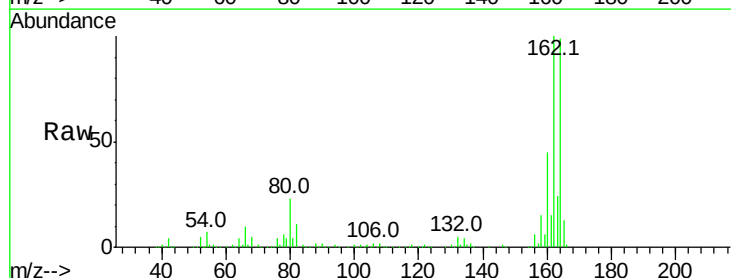
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
 2,4-Dinitrotoluene  
 Concen: 5.892 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.22 min  
 Lab File: BF103591.D  
 Acq: 12 Mar 2018 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 36.4  | 54.6# |
| 89      | 1.1   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

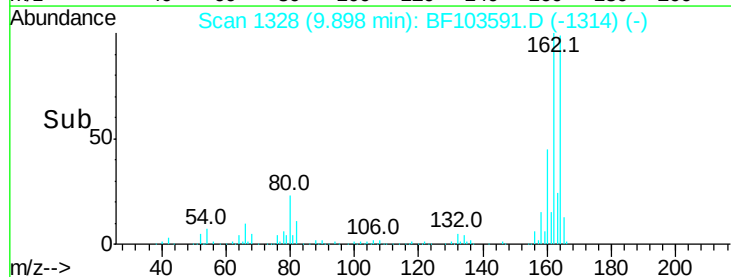
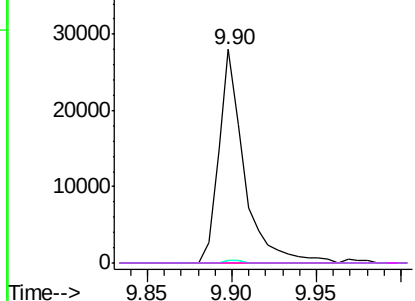


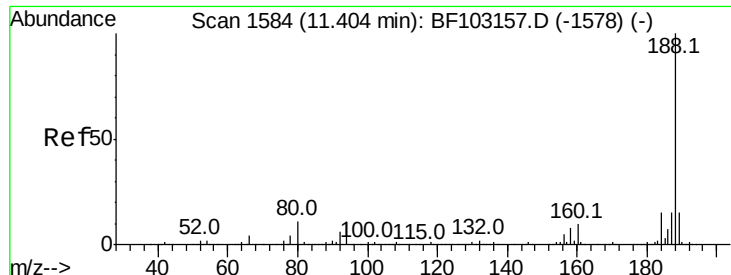
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

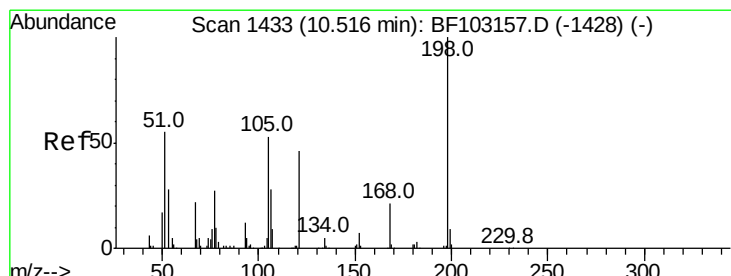
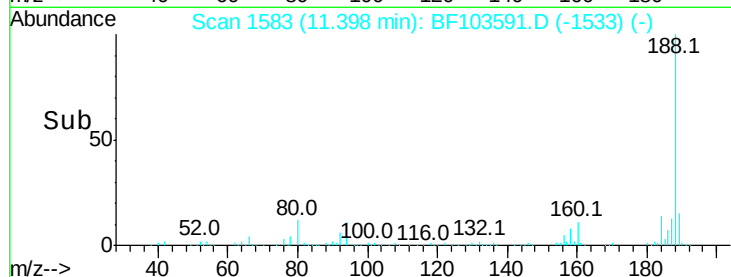
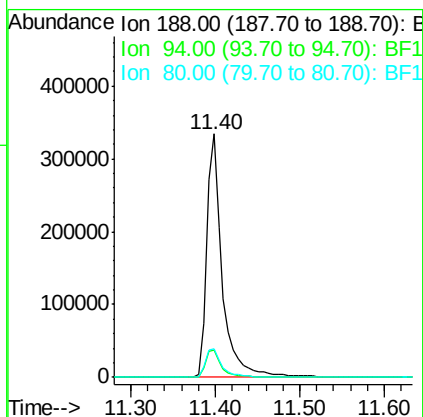
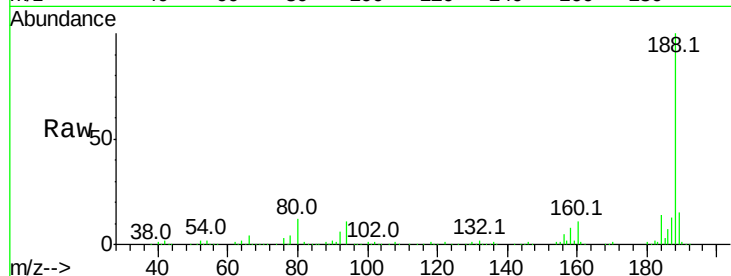




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

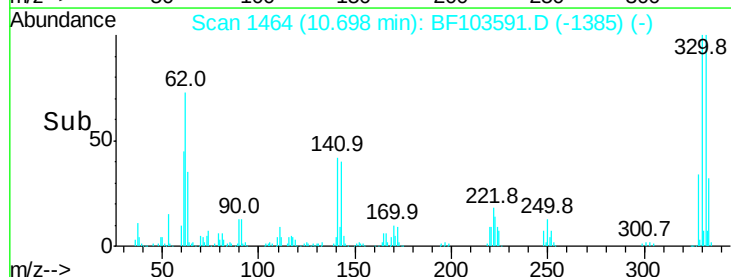
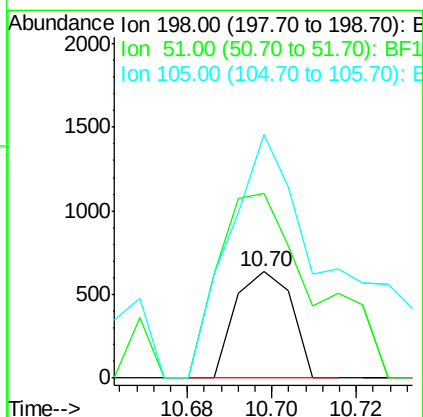
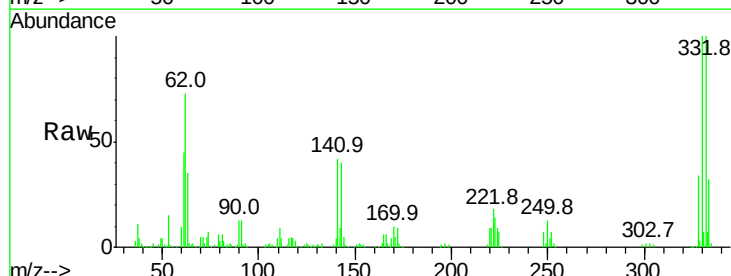
Instrument :  
BNA\_F  
ClientSampleId :

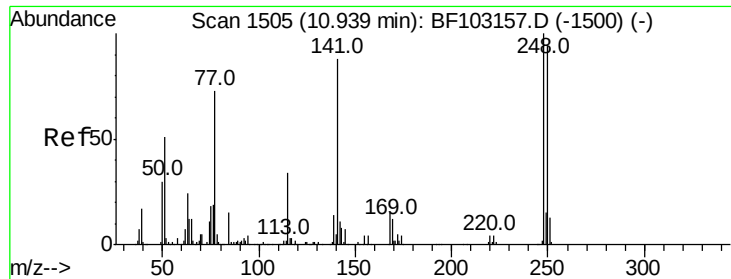
Tot Ion:188 Resp: 428627  
Ion Ratio Lower Upper  
188 100  
94 11.5 8.5 12.7  
80 11.9 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.148 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. 0.16 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

Tgt Ion:198 Resp: 590  
Ion Ratio Lower Upper  
198 100  
51 173.0 37.7 77.7#  
105 228.6 36.3 76.3#

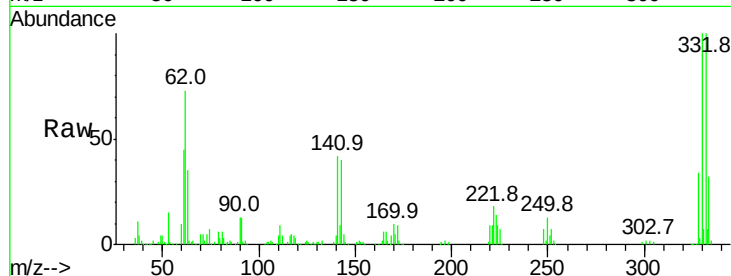




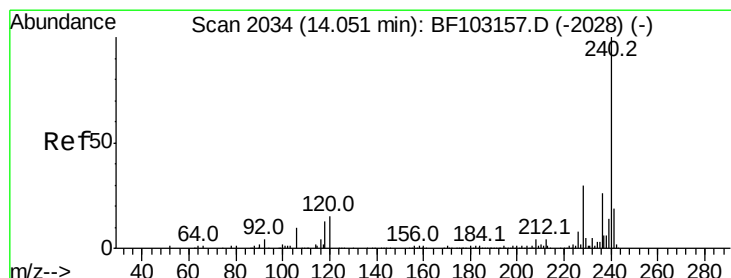
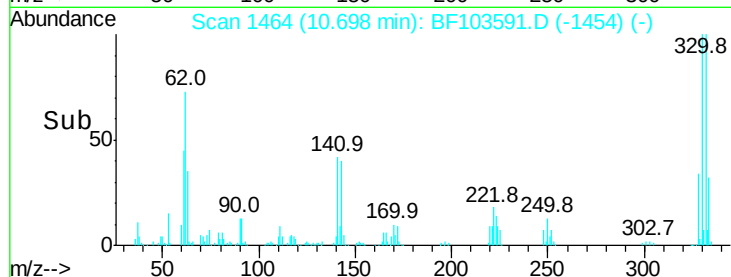
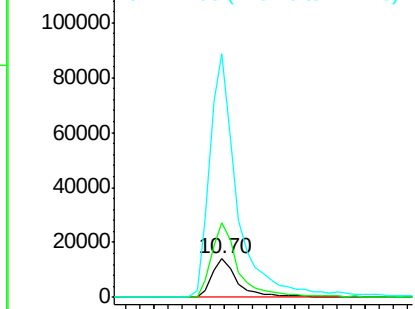
#66  
4-Bromophenyl-phenylether  
Concen: 3.993 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. -0.24 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 17828  
Ion Ratio Lower Upper  
248 100  
250 194.0 76.9 115.3#  
141 628.3 74.4 111.6#

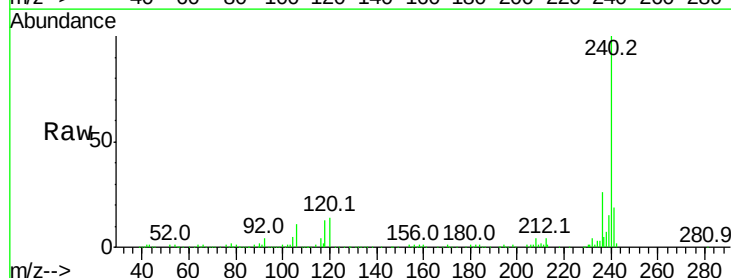


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

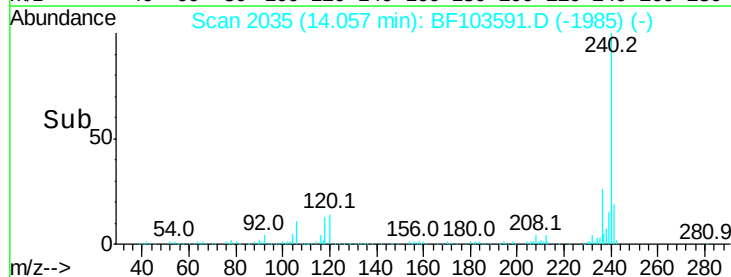
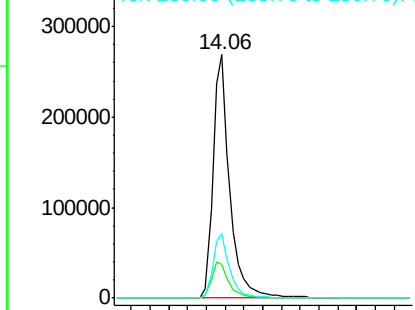


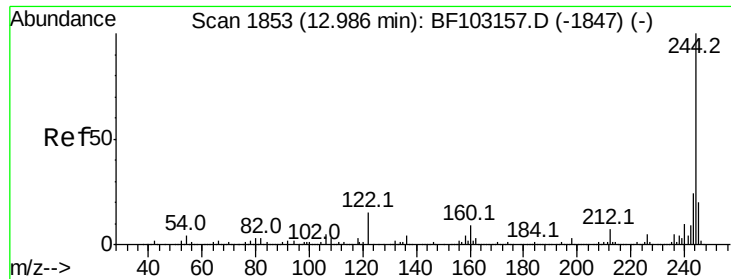
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.01 min  
Lab File: BF103591.D  
Acq: 12 Mar 2018 19:29

Tgt Ion:240 Resp: 337759  
Ion Ratio Lower Upper  
240 100  
120 14.0 9.5 14.3  
236 26.2 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: 83.724 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.00 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

Instrument :

BNA\_F

ClientSampleId :

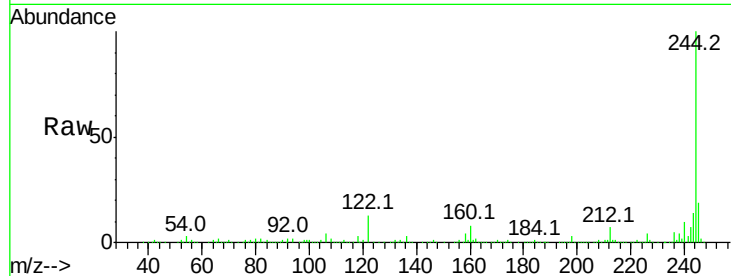
Tot Ion:244 Resp: 1176376

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

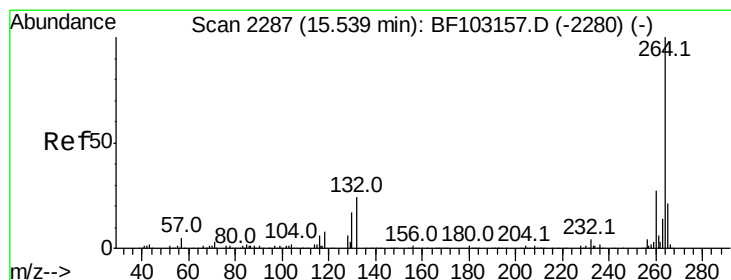
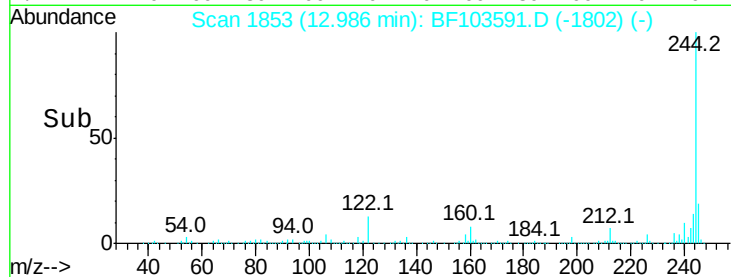
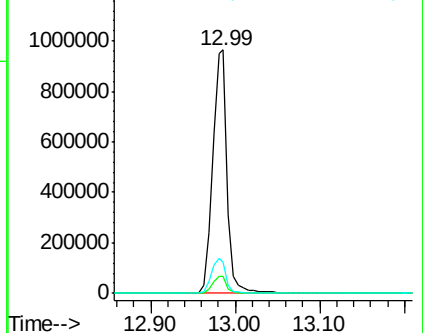
122 13.0 11.0 16.4



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: 15.56 min Scan# 2291

Delta R.T. -0.01 min

Lab File: BF103591.D

Acq: 12 Mar 2018 19:29

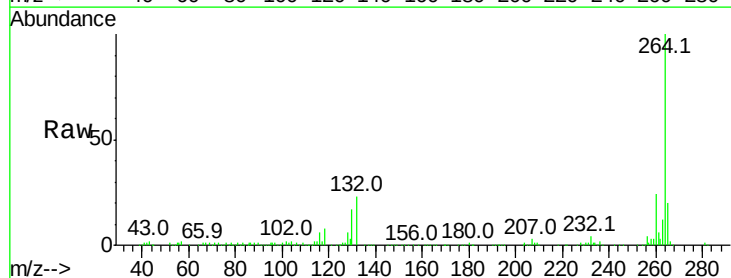
Tgt Ion:264 Resp: 288218

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

265 20.3 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

