

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081418\  
 Data File : BF108155.D  
 Acq On : 14 Aug 2018 19:56  
 Operator : JU/SJ  
 Sample : J4458-03  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 15 10:56:41 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

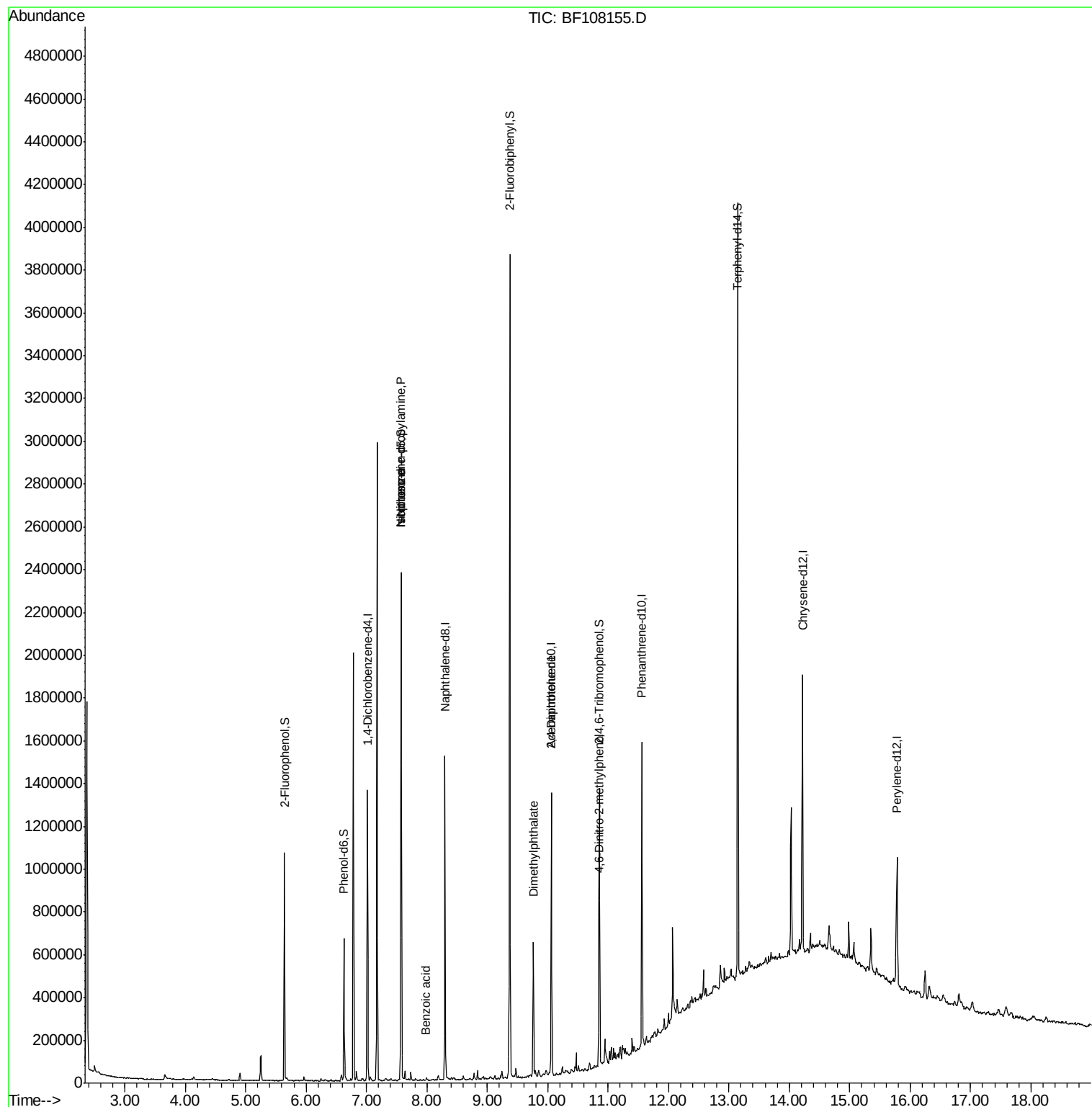
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.02  | 152  | 180769   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.30  | 136  | 604320   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.07 | 164  | 251840   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.56 | 188  | 483902   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.22 | 240  | 444468   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.78 | 264  | 281783   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 242267   | 24.26  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.63  | 99   | 189440   | 14.28  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.58  | 82   | 747612   | 69.03  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.85 | 330  | 139475   | 55.52  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.37  | 172  | 1231770  | 78.52  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.15 | 244  | 1177136  | 67.34  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 99783    | 11.121 | ng    | # 84     |
| 25) Isophorone                 | 7.58  | 82   | 747743   | 36.224 | ng    | # 64     |
| 32) Benzoic acid               | 7.98  | 122  | 262      | 6.018  | ng    | # 84     |
| 49) Dimethylphthalate          | 9.77  | 163  | 226152   | 12.892 | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 10.07 | 165  | 32430    | 6.864  | ng    | # 24     |
| 64) 4,6-Dinitro-2-methylphenol | 10.84 | 198  | 1637     | 6.159  | ng    | 93       |

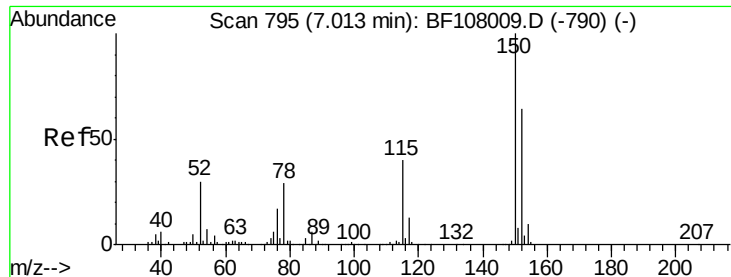
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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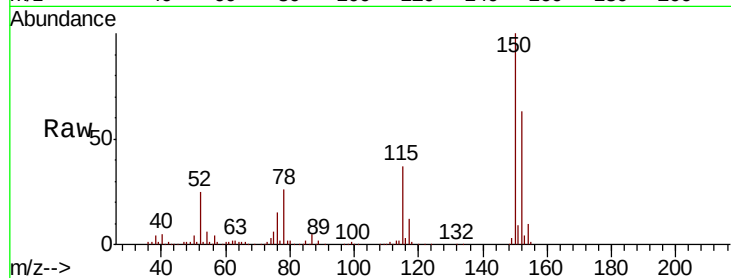


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.4 | 124.6 | 186.8 |
| 115     | 58.4  | 50.1  | 75.1  |

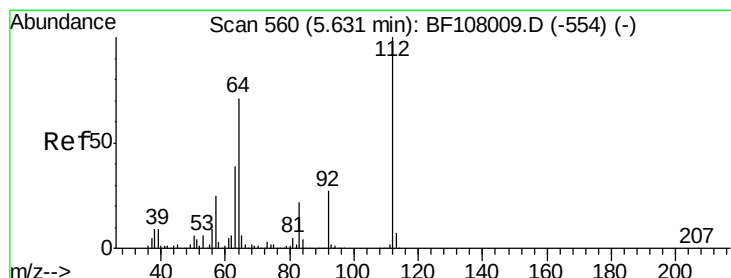
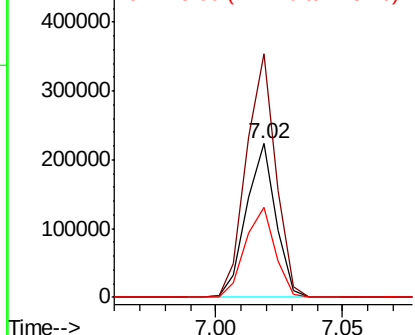
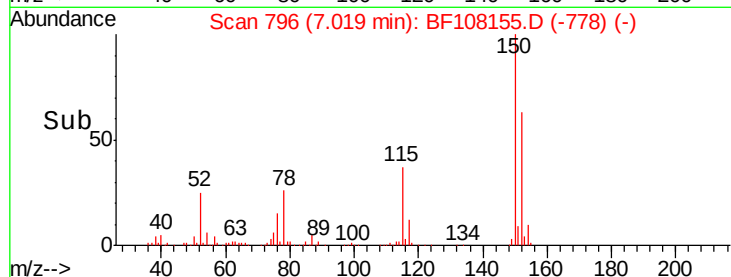


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

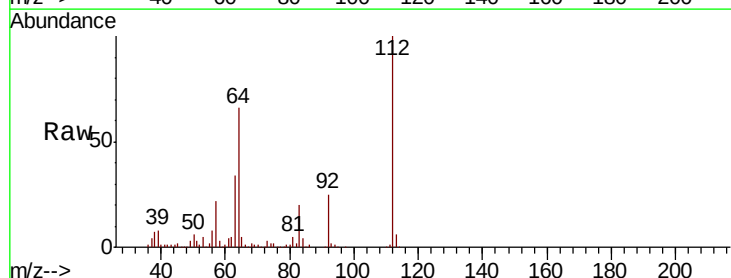
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 24.264 ng  
RT: 5.64 min Scan# 562  
Delta R.T. 0.01 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 47.9  | 71.9  |
| 63      | 33.8  | 23.7  | 35.5  |

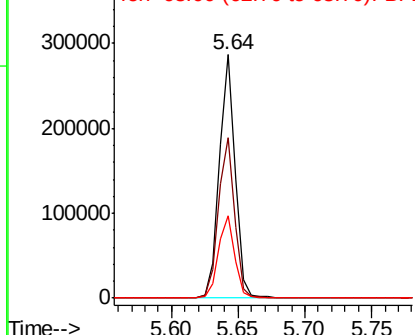
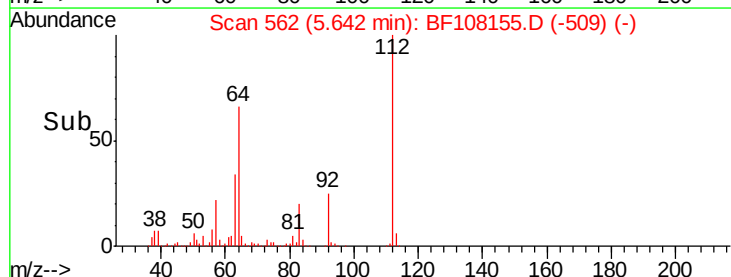


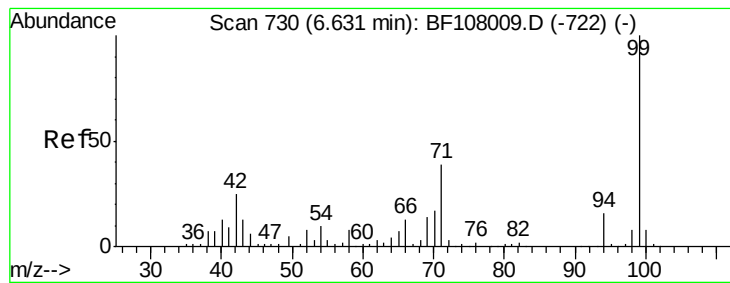
Abundance

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: 14.278 ng

RT: 6.63 min Scan# 730

Delta R.T. -0.00 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

Instrument :

BNA\_F

ClientSampleId :

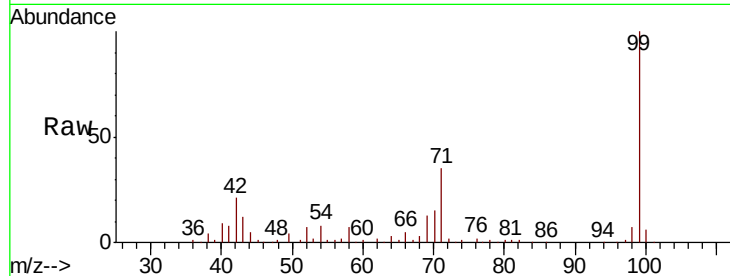
Tot Ion: 99 Resp: 189440

Ion Ratio Lower Upper

99 100

42 21.2 14.5 21.7

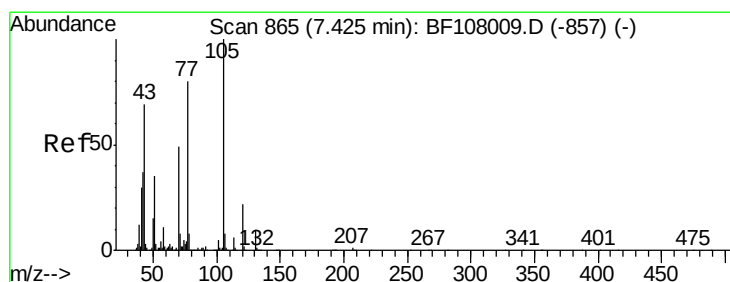
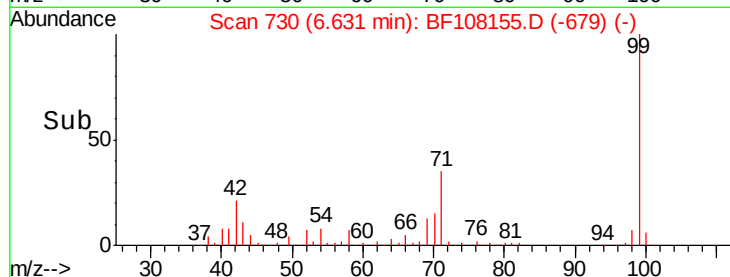
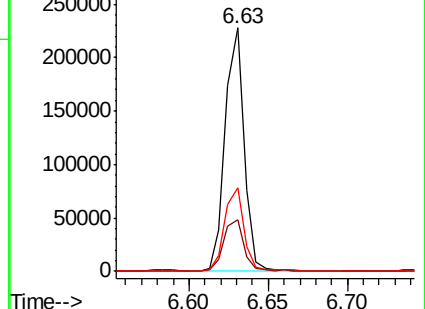
71 34.6 25.4 38.0



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: 11.121 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

Tgt Ion: 70 Resp: 99783

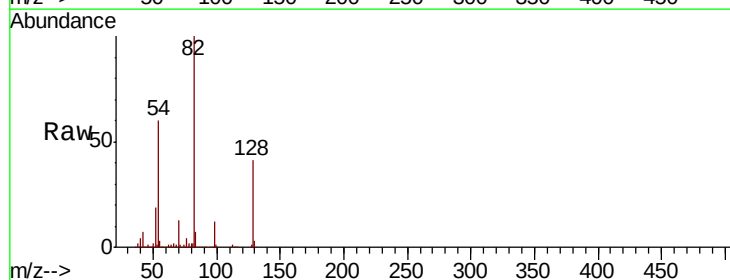
Ion Ratio Lower Upper

70 100

42 55.1 47.5 71.3

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#

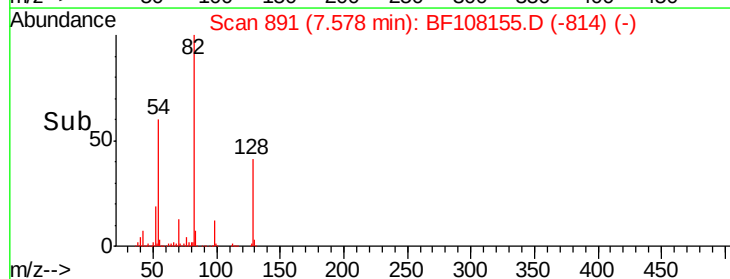
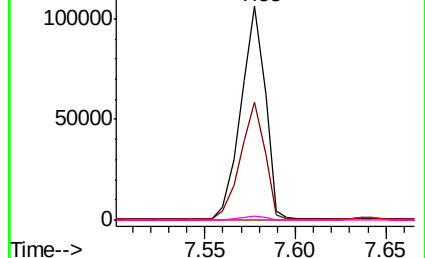


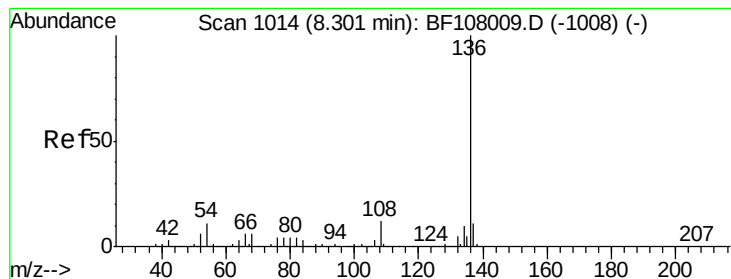
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.30 min Scan# 1014

Delta R.T. -0.00 min

Lab File: BF108155.D

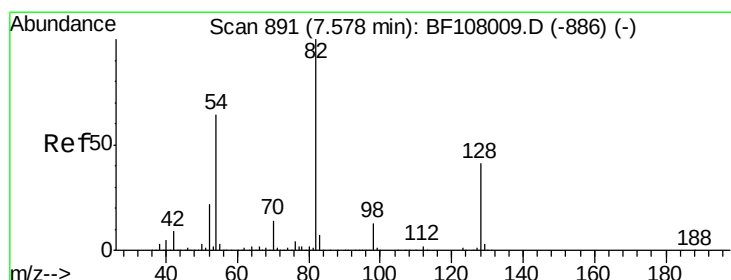
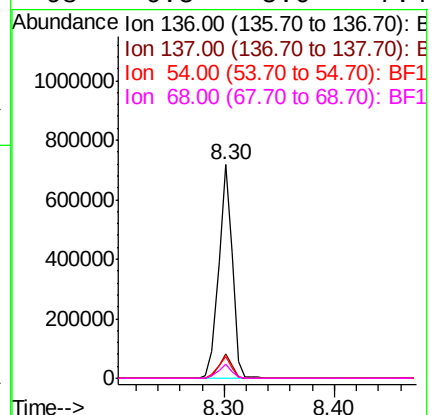
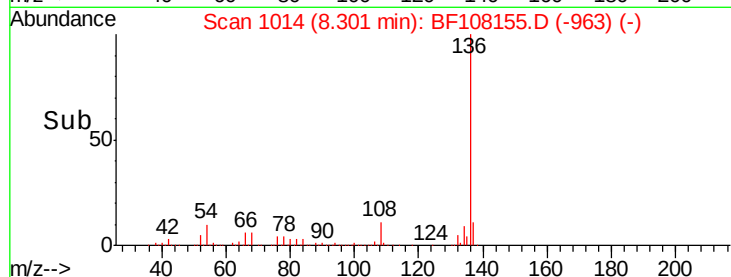
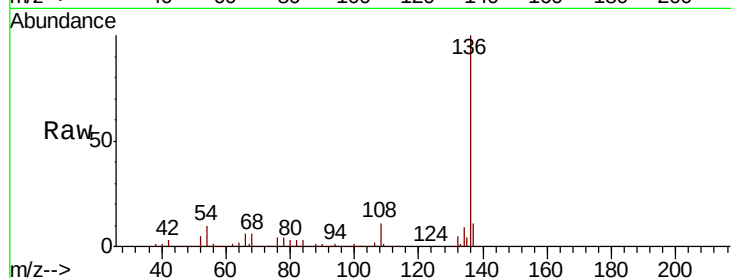
Acq: 14 Aug 2018 19:56

Instrument :

BNA\_F

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 604320      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.9 13.3    |
| 54          | 10.4  | 6.6 9.8#    |
| 68          | 6.5   | 5.0 7.4     |



#23

Nitrobenzene-d5

Concen: 69.033 ng

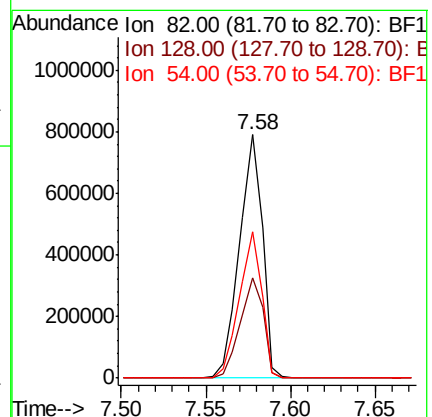
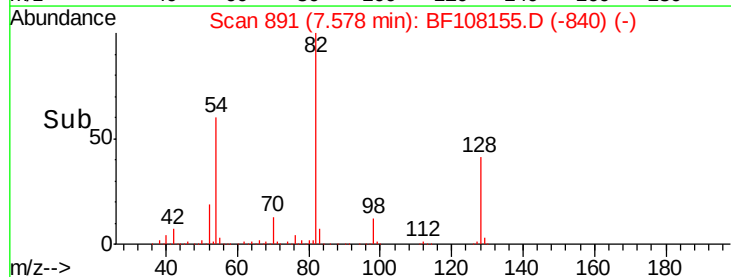
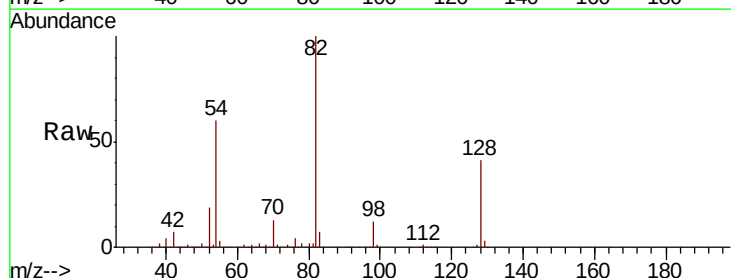
RT: 7.58 min Scan# 891

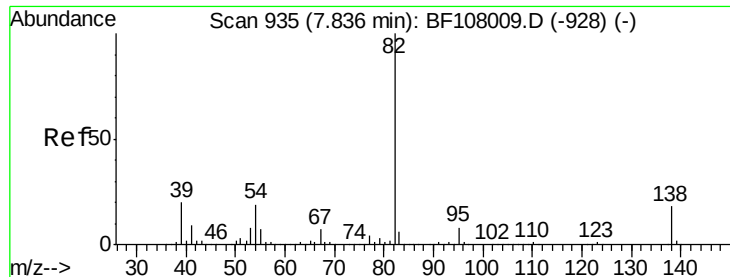
Delta R.T. -0.00 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 747612      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 41.4  | 36.1 54.1   |
| 54          | 60.1  | 41.4 62.2   |





#25

Isophorone

Concen: 36.224 ng

RT: 7.58 min Scan# 891

Delta R.T. -0.26 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

Instrument :

BNA\_F

ClientSampleId :

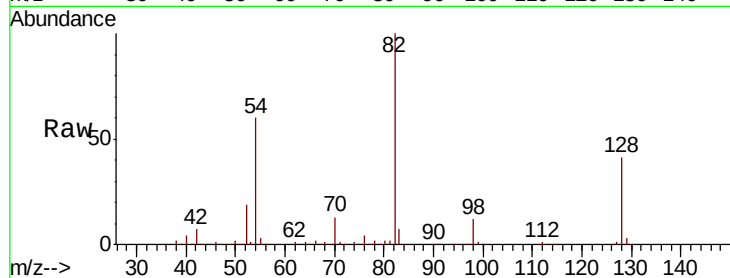
Tot Ion: 82 Resp: 747743

Ion Ratio Lower Upper

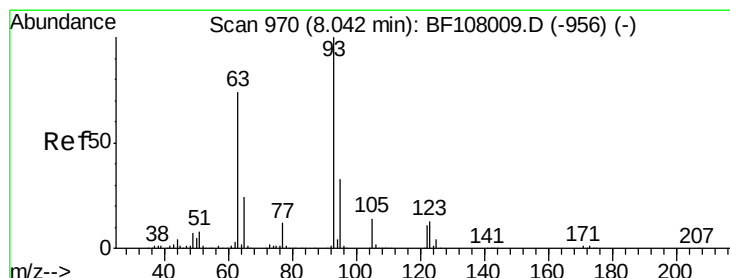
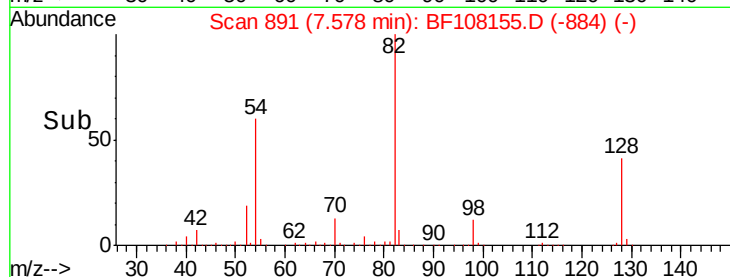
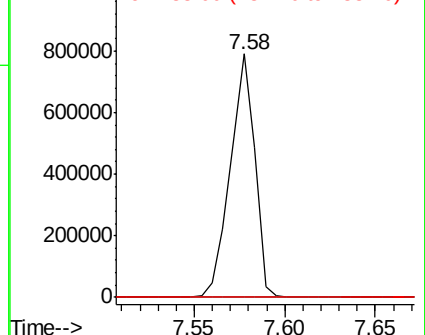
82 100

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



#32

Benzoic acid

Concen: 6.018 ng

RT: 7.98 min Scan# 959

Delta R.T. -0.06 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

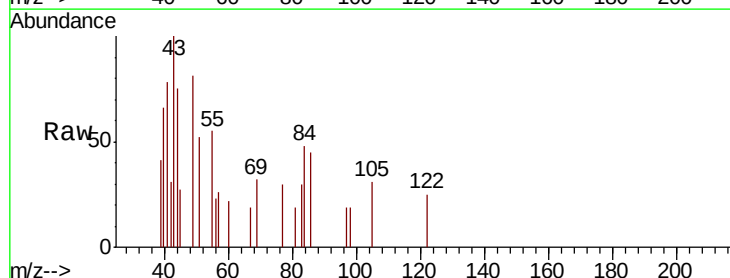
Tgt Ion:122 Resp: 262

Ion Ratio Lower Upper

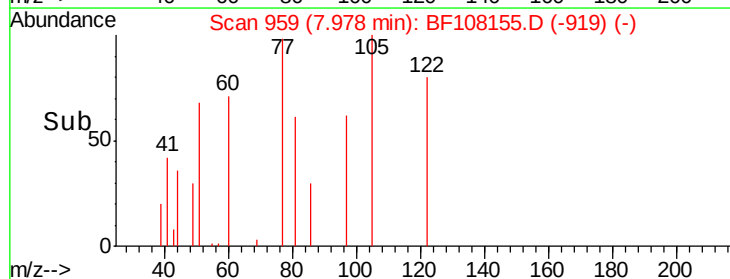
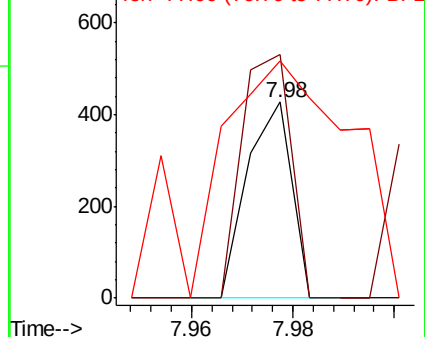
122 100

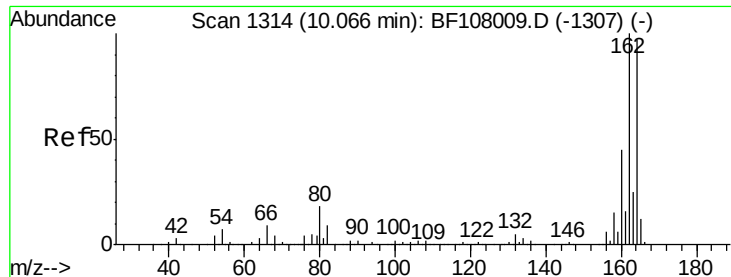
105 124.4 101.1 141.1

77 121.3 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1

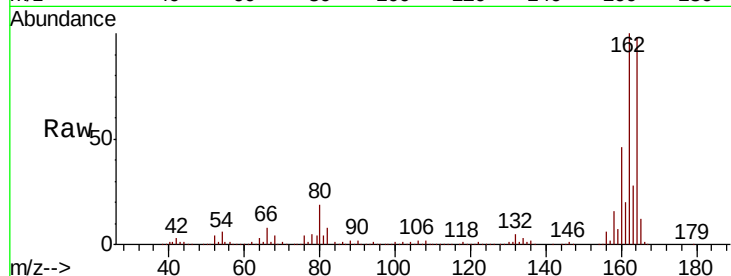




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.07 min Scan# 1314  
 Delta R.T. -0.00 min  
 Lab File: BF108155.D  
 Acq: 14 Aug 2018 19:56

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.2 | 86.1  | 129.1 |
| 160     | 47.1  | 38.3  | 57.5  |

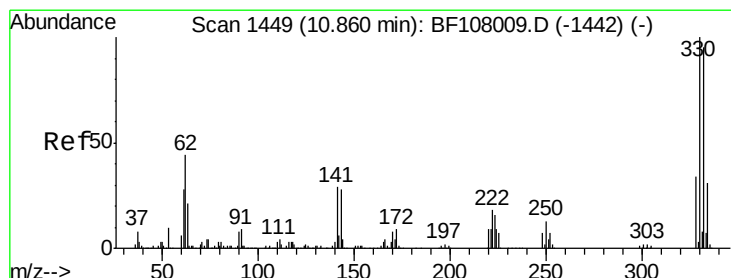
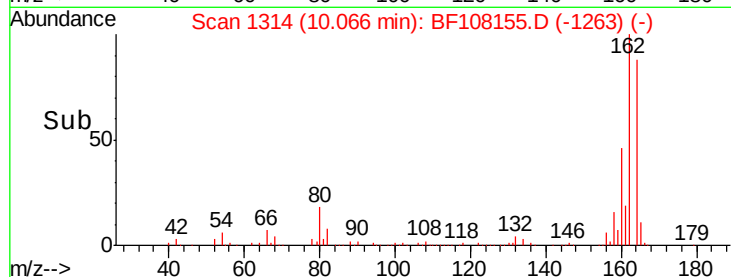
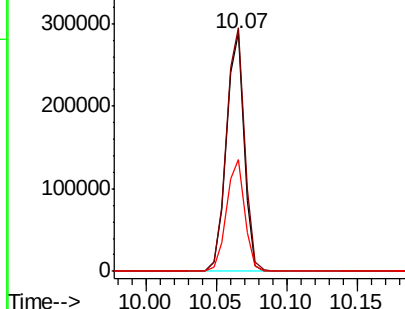


Abundance

Ion 164.00 (163.70 to 164.70): E

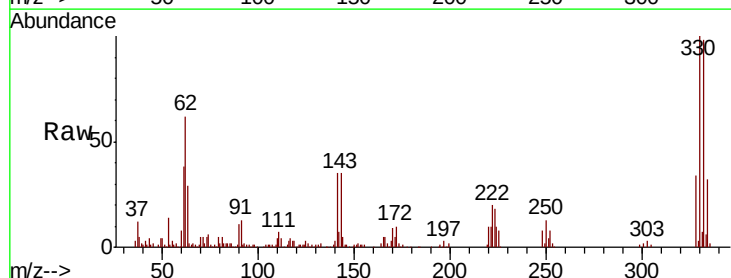
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41  
 2,4,6-Tribromophenol  
 Concen: 55.523 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. -0.01 min  
 Lab File: BF108155.D  
 Acq: 14 Aug 2018 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.6  | 77.0  | 115.6 |
| 141     | 32.5  | 29.9  | 44.9  |

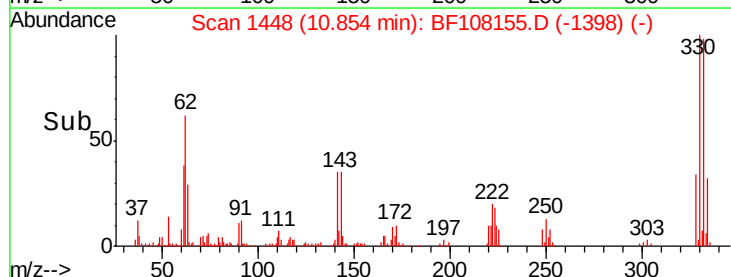
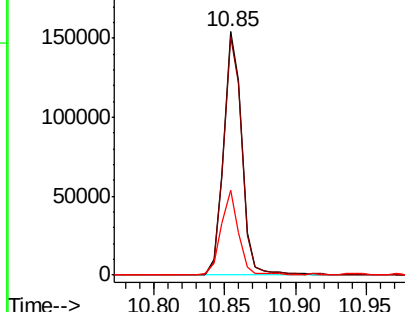


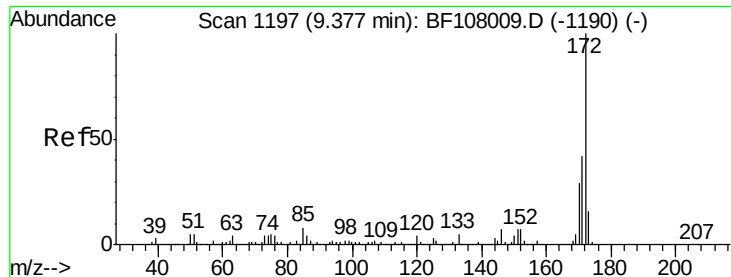
Abundance

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

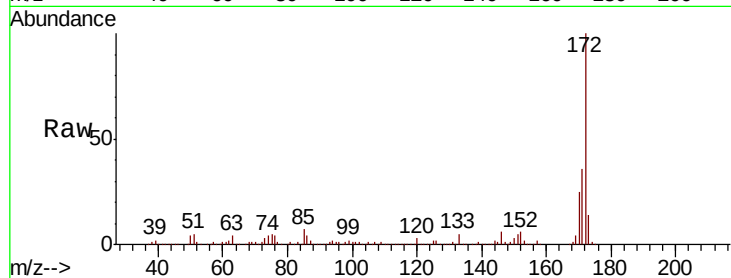




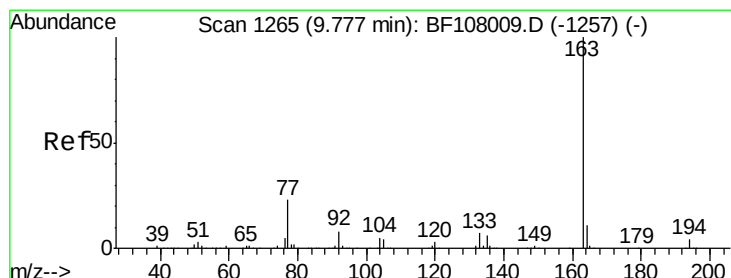
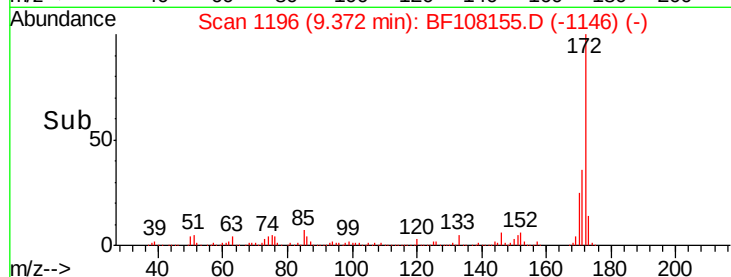
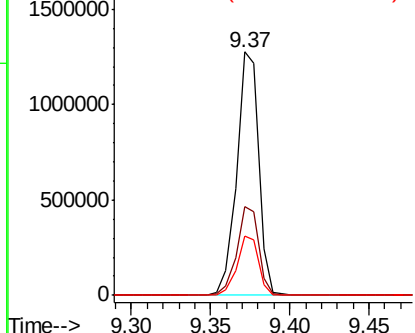
#44  
2-Fluorobiphenyl  
Concen: 78.525 ng  
RT: 9.37 min Scan# 1196  
Delta R.T. -0.01 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1231770  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.7 44.5  
170 24.5 19.6 29.4

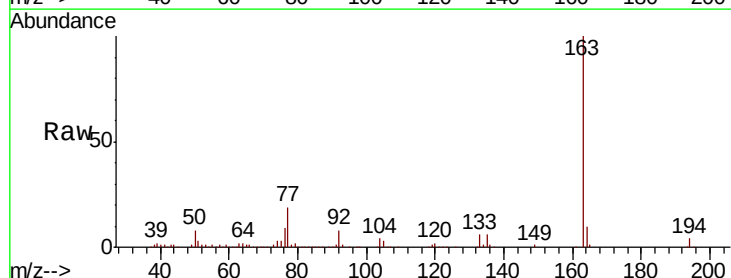


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

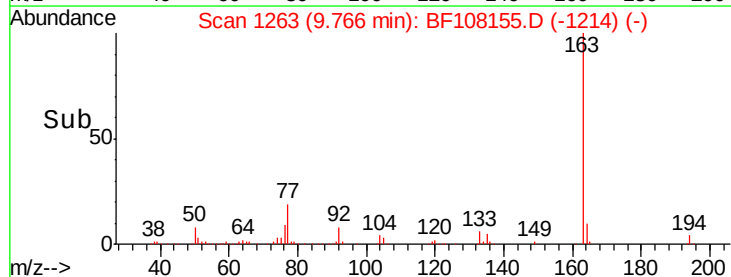
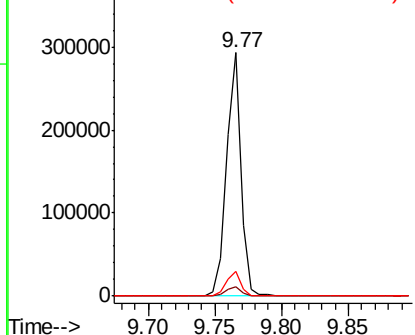


#49  
Dimethylphthalate  
Concen: 12.892 ng  
RT: 9.77 min Scan# 1263  
Delta R.T. -0.01 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

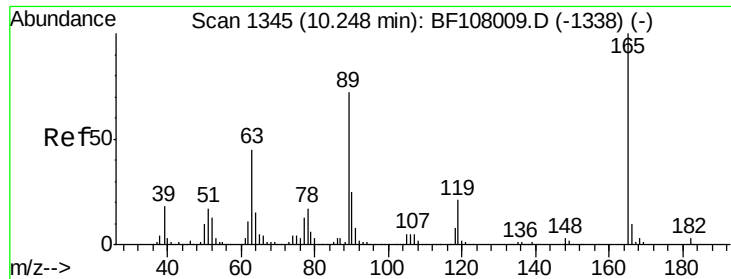
Tgt Ion:163 Resp: 226152  
Ion Ratio Lower Upper  
163 100  
194 4.1 2.7 4.1  
164 10.3 8.2 12.2



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



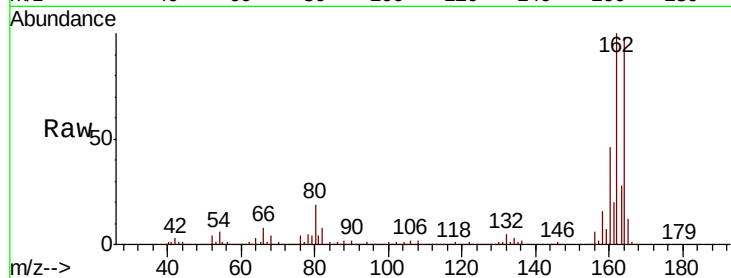




#56  
2,4-Dinitrotoluene  
Concen: 6.864 ng  
RT: 10.07 min Scan# 1314  
Delta R.T. -0.18 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.1   | 36.4  | 54.6# |
| 89      | 2.4   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

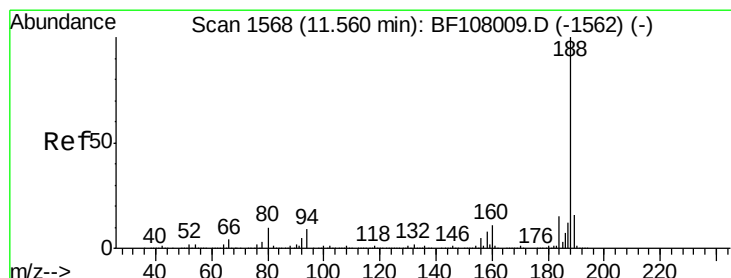
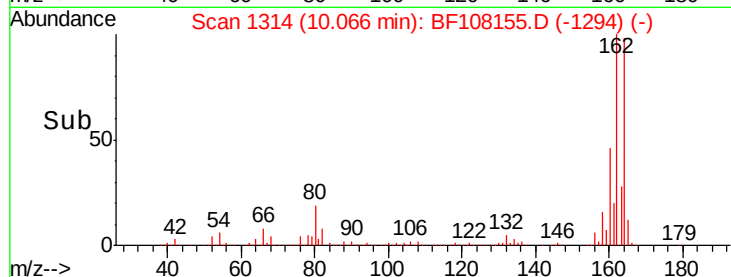
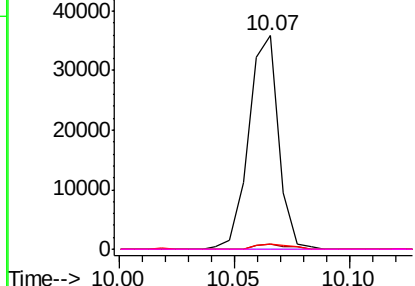


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

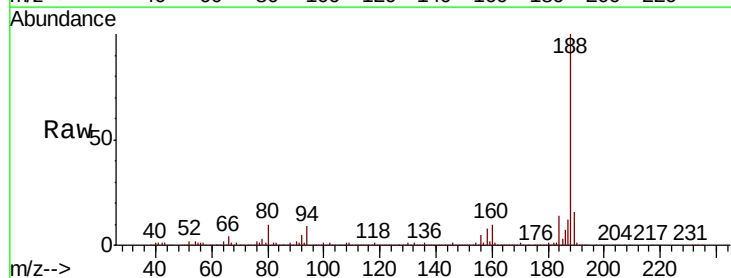
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.56 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

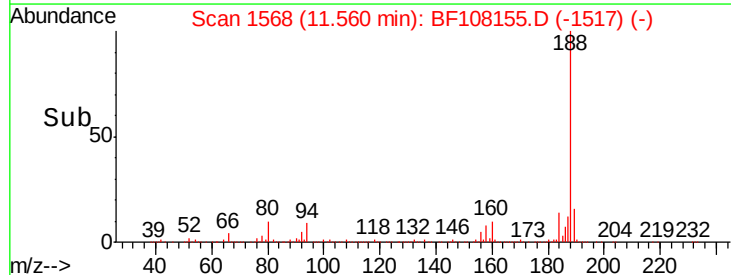
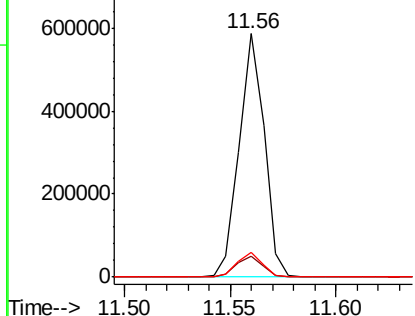
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.8   | 8.5   | 12.7  |
| 80      | 10.1  | 9.2   | 13.8  |

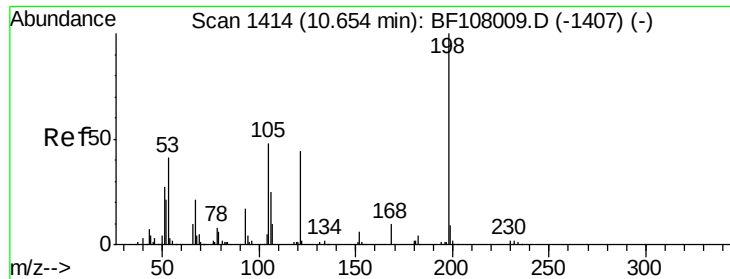


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

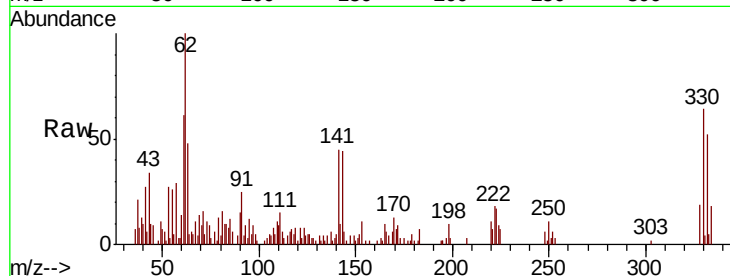




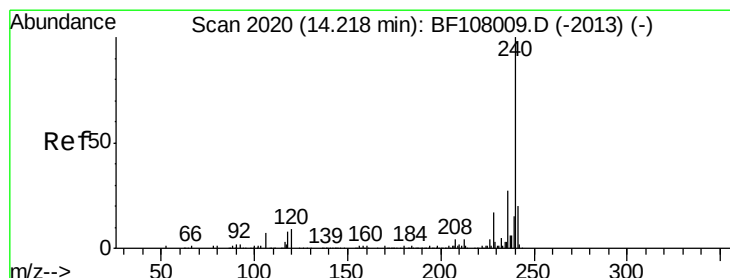
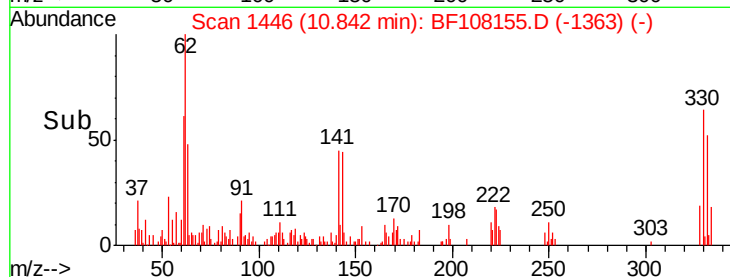
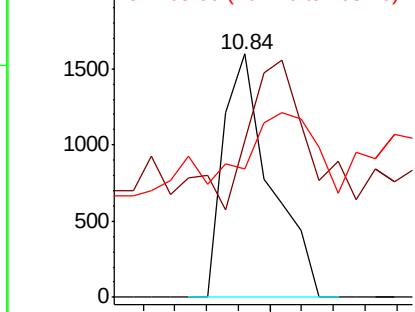
#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.159 ng  
RT: 10.84 min Scan# 1446  
Delta R.T. 0.19 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 1637  
Ion Ratio Lower Upper  
198 100  
51 64.5 37.7 77.7  
105 52.8 36.3 76.3

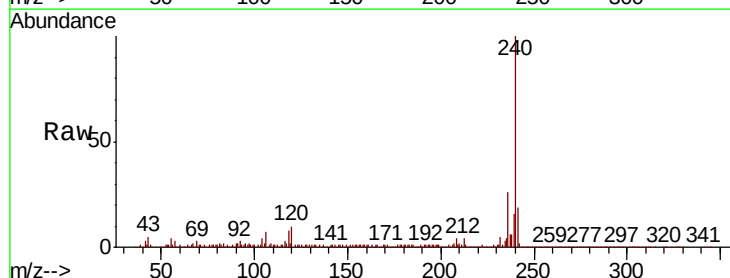


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

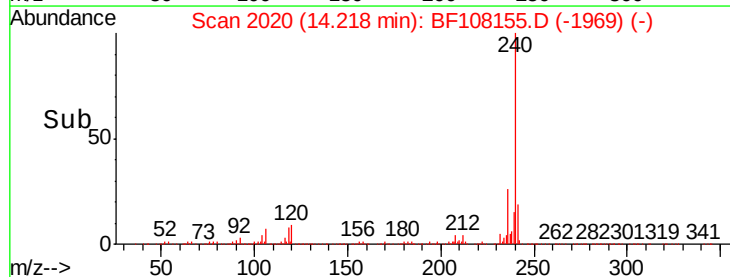
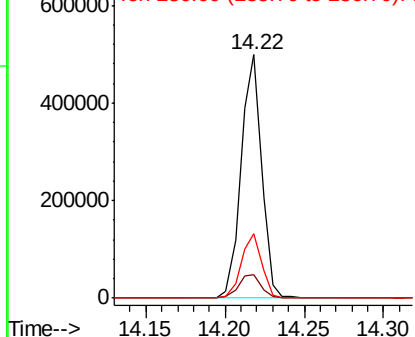


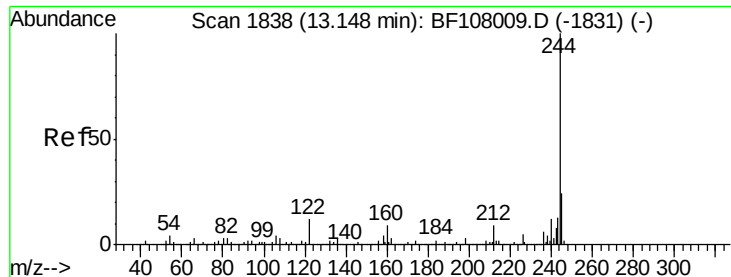
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.22 min Scan# 2020  
Delta R.T. -0.00 min  
Lab File: BF108155.D  
Acq: 14 Aug 2018 19:56

Tgt Ion:240 Resp: 444468  
Ion Ratio Lower Upper  
240 100  
120 9.6 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: 67.338 ng

RT: 13.15 min Scan# 1838

Delta R.T. -0.00 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

Instrument :

BNA\_F

ClientSampleId :

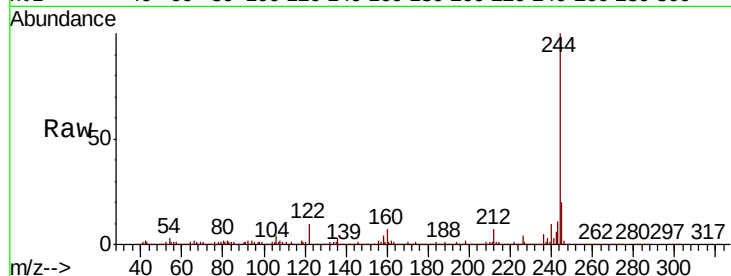
Tot Ion:244 Resp: 1177136

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

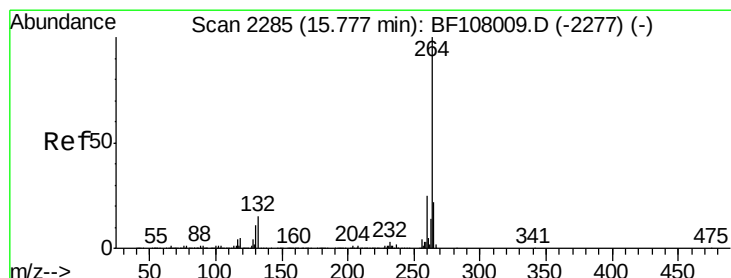
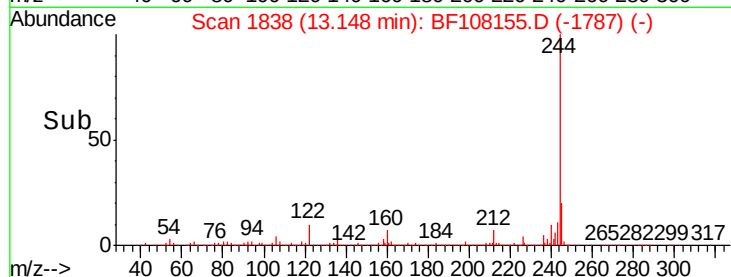
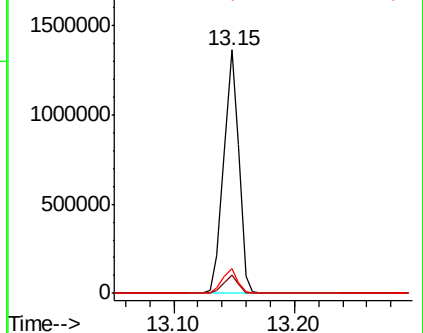
122 10.1 11.0 16.4#



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# 2286

Delta R.T. 0.01 min

Lab File: BF108155.D

Acq: 14 Aug 2018 19:56

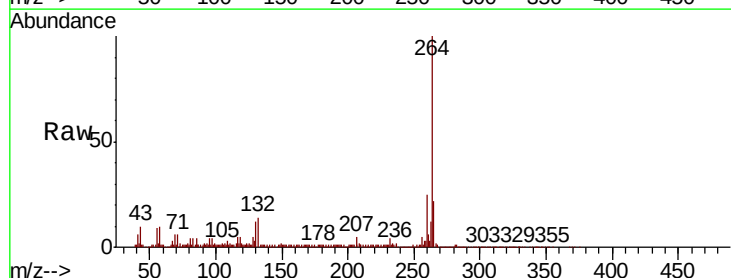
Tgt Ion:264 Resp: 281783

Ion Ratio Lower Upper

264 100

260 25.1 19.2 28.8

265 21.7 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

