

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF080918\  
 Data File : BF108073.D  
 Acq On : 10 Aug 2018 1:35  
 Operator : JU/SJ  
 Sample : J4378-02  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 080618-TIPC-E-U-M

Quant Time: Aug 10 03:33:17 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

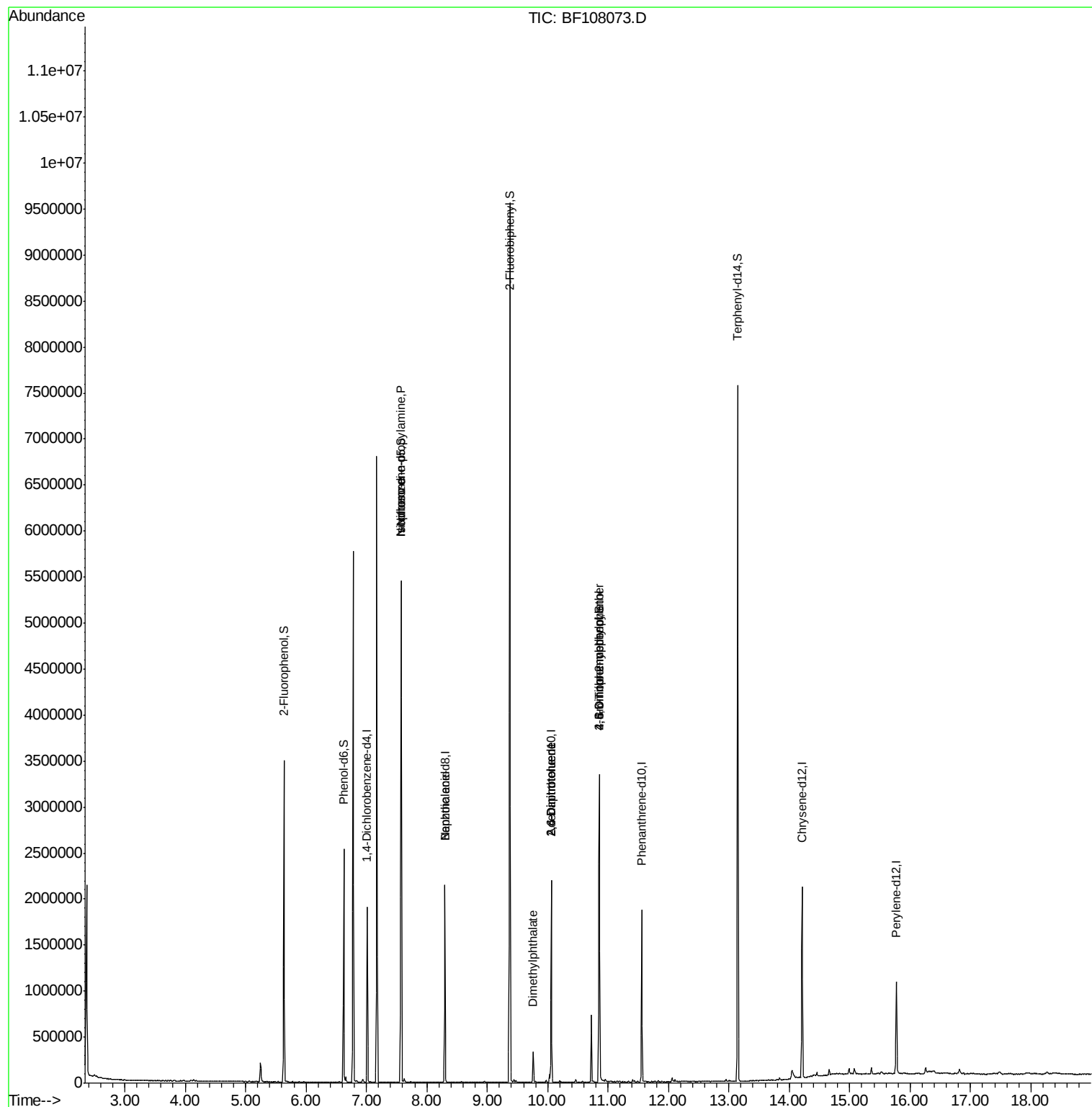
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.01  | 152  | 272152   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.30  | 136  | 959765   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.06 | 164  | 413680   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.56 | 188  | 679839   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.21 | 240  | 667690   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.77 | 264  | 475316   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 833692   | 55.46  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.62  | 99   | 737576   | 36.92  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.58  | 82   | 1896689  | 110.27 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.85 | 330  | 373964   | 90.63  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.38  | 172  | 2970401  | 115.28 | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.15 | 244  | 2452162  | 93.38  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.58  | 70   | 263034   | 19.472 | ng    | # 86     |
| 25) Isophorone                 | 7.58  | 82   | 1893052  | 57.745 | ng    | # 64     |
| 32) Benzoic acid               | 8.30  | 122  | 122      | 5.987  | ng    | # 1      |
| 49) Dimethylphthalate          | 9.77  | 163  | 136336   | 4.731  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 10.06 | 165  | 52920    | 8.778  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 10.06 | 165  | 52920    | 6.819  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.85 | 198  | 776      | 5.629  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.85 | 248  | 25030    | 3.388  | ng    | # 1      |

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

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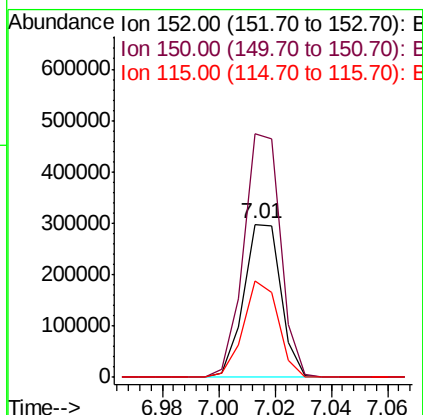
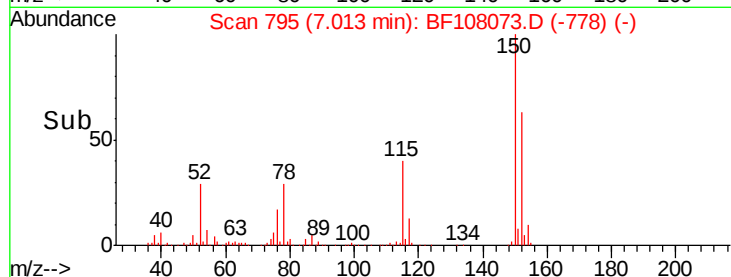
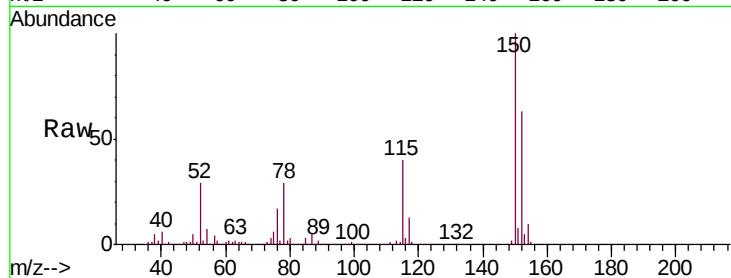


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.01 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :  
080618-TIPC-E-U-M

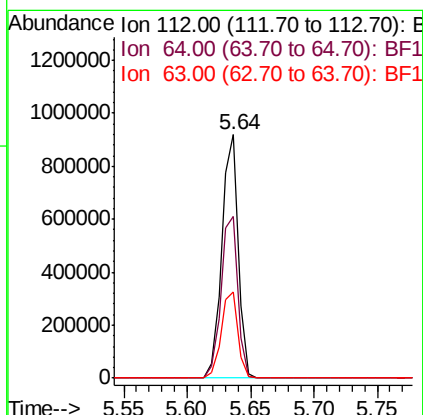
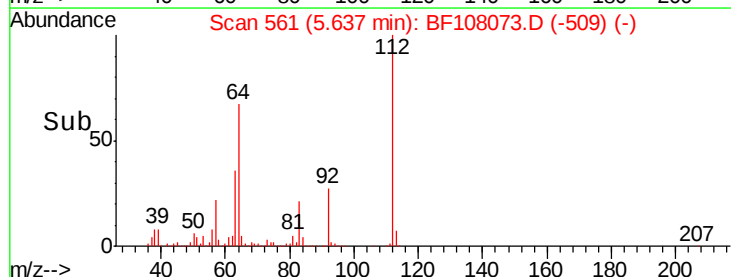
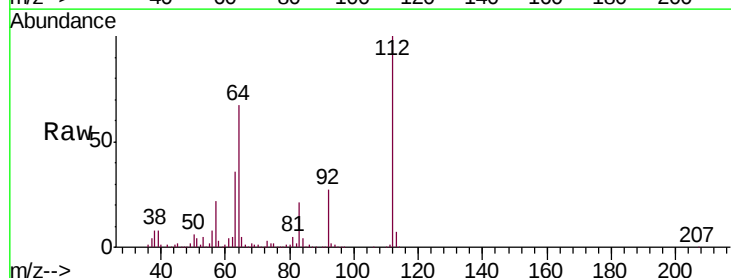
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.0 | 124.6 | 186.8 |
| 115     | 63.1  | 50.1  | 75.1  |



#5

2-Fluorophenol  
Concen: 55.460 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.6  | 47.9  | 71.9  |
| 63      | 35.5  | 23.7  | 35.5# |





#7

Phenol-d6

Concen: 36.923 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

080618-TIPC-E-U-M

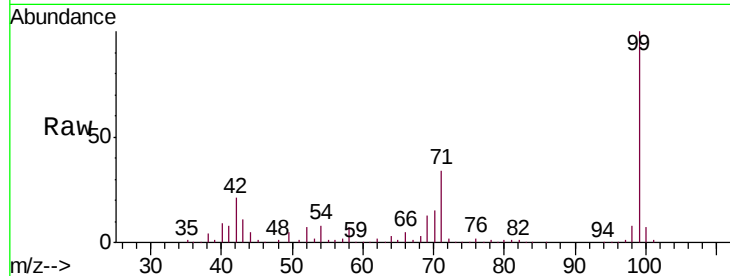
Tgt Ion: 99 Resp: 737576

Ion Ratio Lower Upper

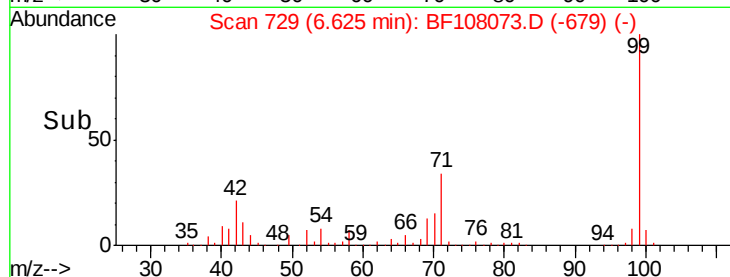
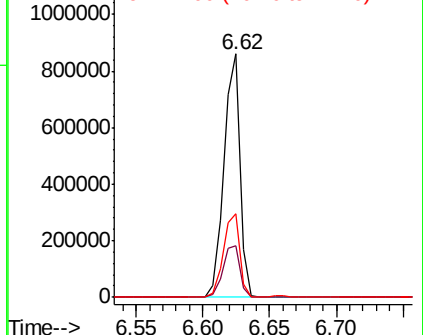
99 100

42 21.2 14.5 21.7

71 34.3 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: 19.472 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.15 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

Tgt Ion: 70 Resp: 263034

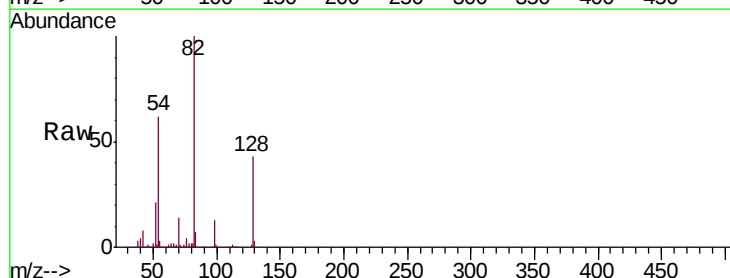
Ion Ratio Lower Upper

70 100

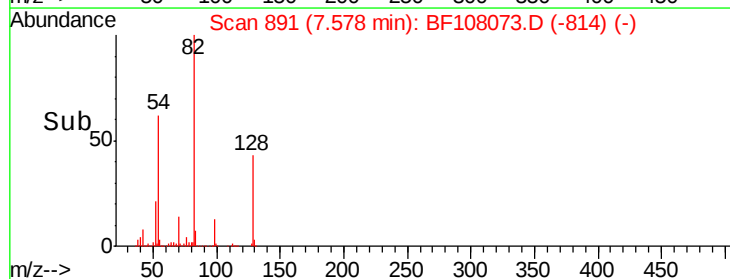
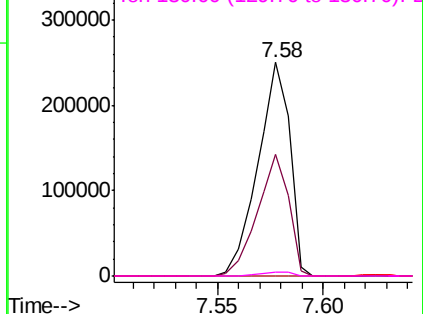
42 56.7 47.5 71.3

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): E  
Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.30 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

080618-TIPC-E-U-M

Tgt Ion: 136 Resp: 959765

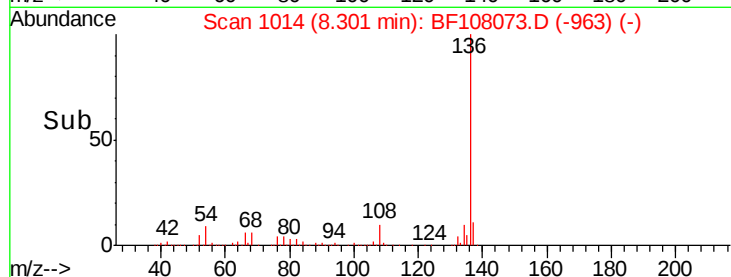
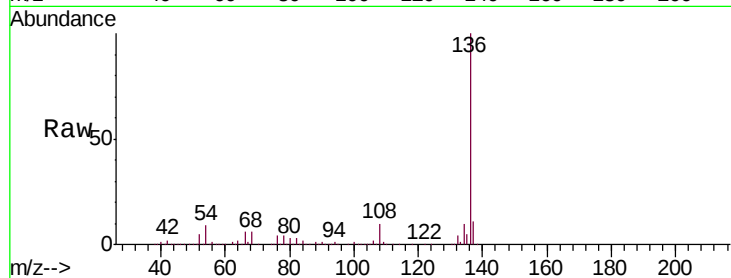
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 9.3 6.6 9.8

68 5.6 5.0 7.4

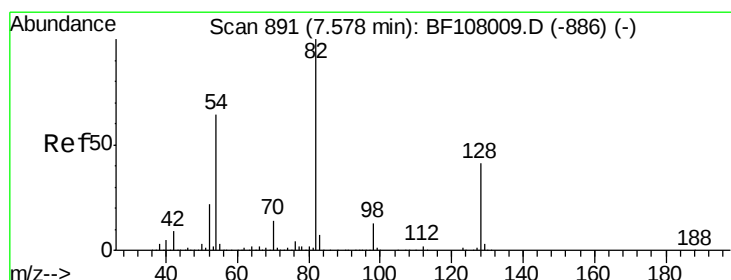
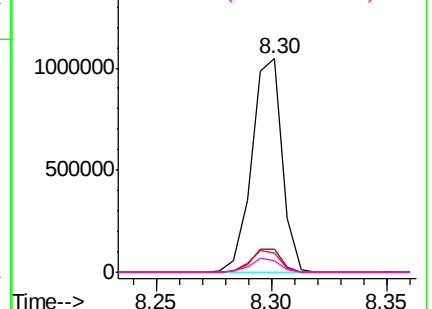


Abundance Ion 136.00 (135.70 to 136.70): E

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: 110.275 ng

RT: 7.58 min Scan# 891

Delta R.T. 0.00 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

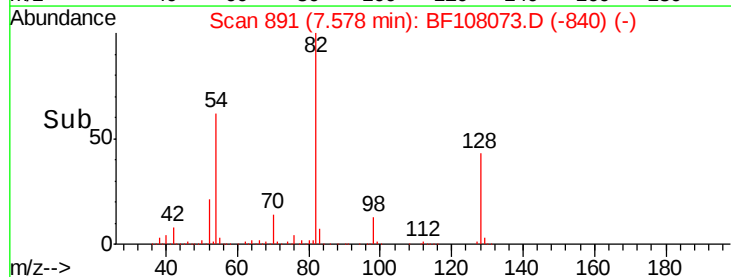
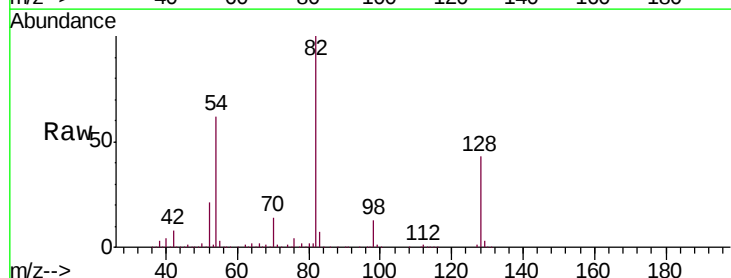
Tgt Ion: 82 Resp: 1896689

Ion Ratio Lower Upper

82 100

128 42.7 36.1 54.1

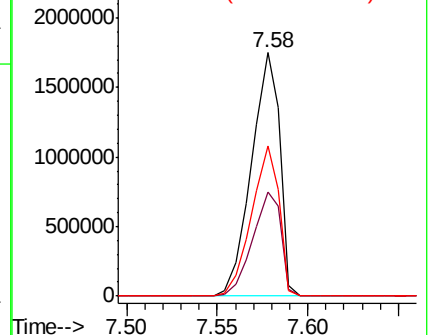
54 61.8 41.4 62.2



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

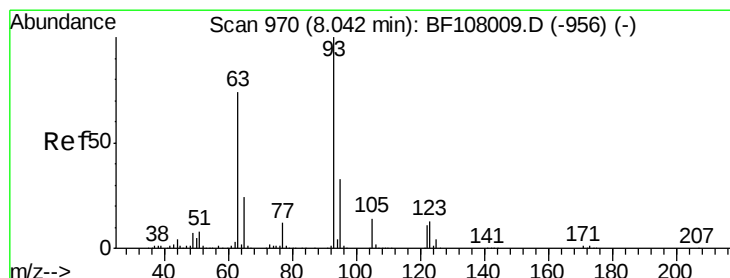
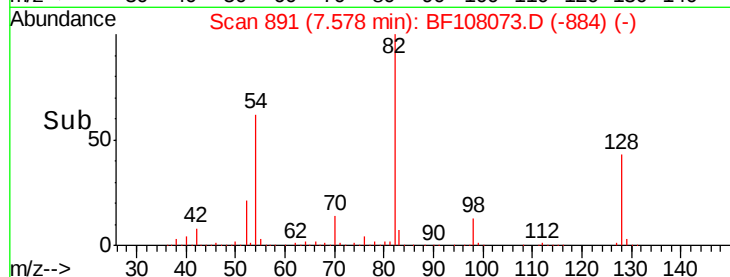
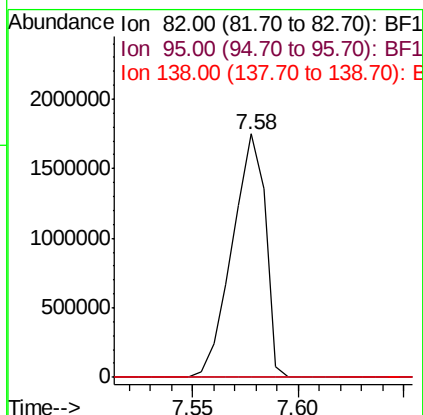
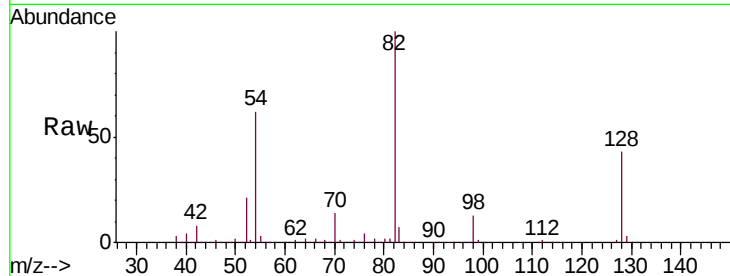




#25  
Isophorone  
Concen: 57.745 ng  
RT: 7.58 min Scan# 891  
Delta R.T. -0.26 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

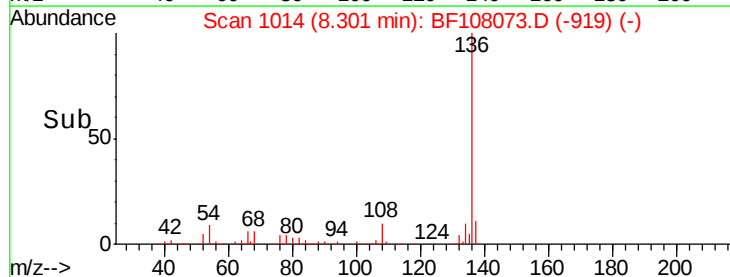
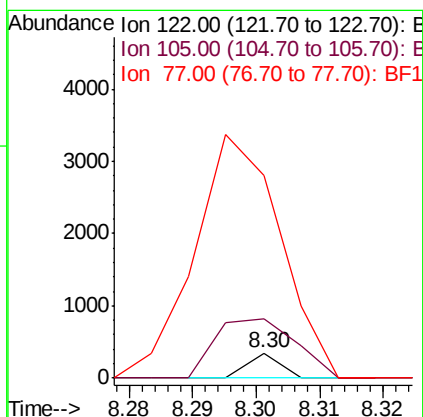
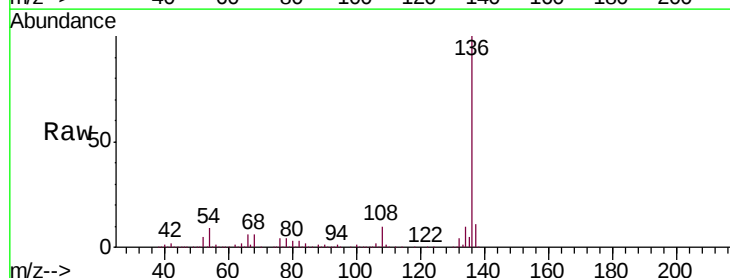
Instrument :  
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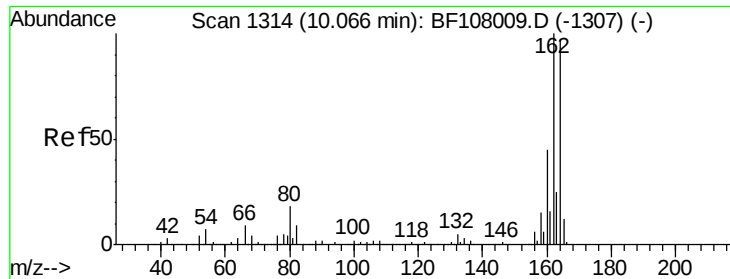
Tgt Ion: 82 Resp: 1893052  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#32  
Benzoic acid  
Concen: 5.987 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. 0.26 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Tgt Ion: 122 Resp: 122  
Ion Ratio Lower Upper  
122 100  
105 235.7 101.1 141.1#  
77 808.1 70.7 110.7#

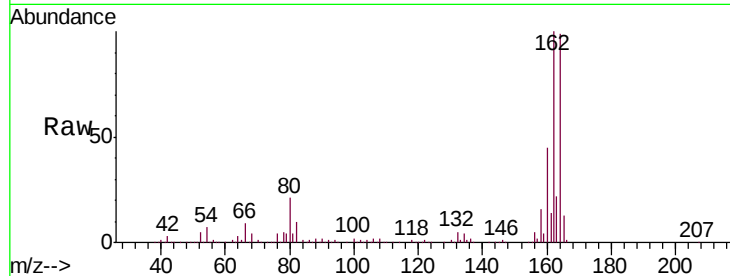




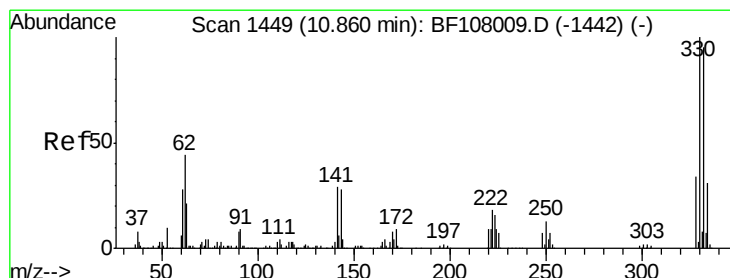
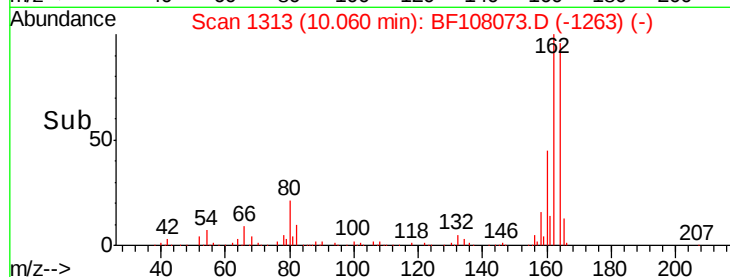
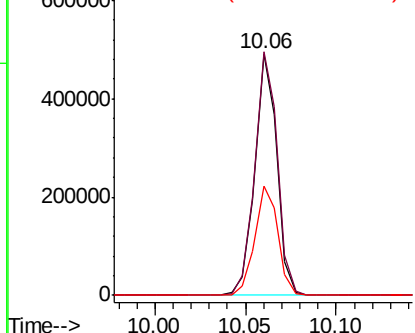
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. -0.01 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :  
080618-TIPC-E-U-M

Tgt Ion:164 Resp: 413680  
Ion Ratio Lower Upper  
164 100  
162 101.0 86.1 129.1  
160 45.4 38.3 57.5

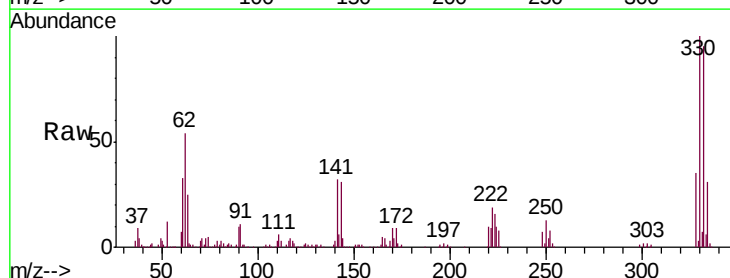


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

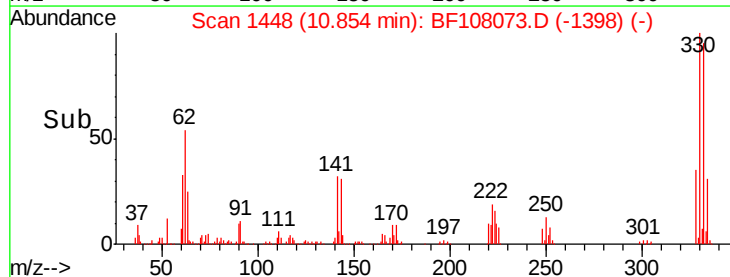
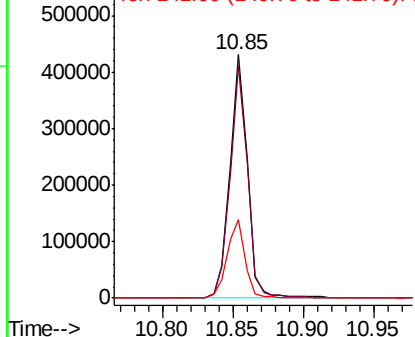


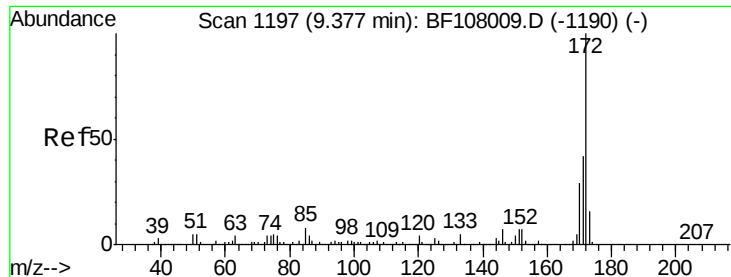
#41  
2,4,6-Tribromophenol  
Concen: 90.628 ng  
RT: 10.85 min Scan# 1448  
Delta R.T. -0.01 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Tgt Ion:330 Resp: 373964  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.0 115.6  
141 33.3 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

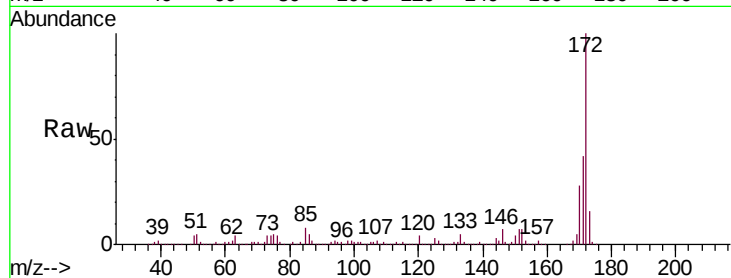




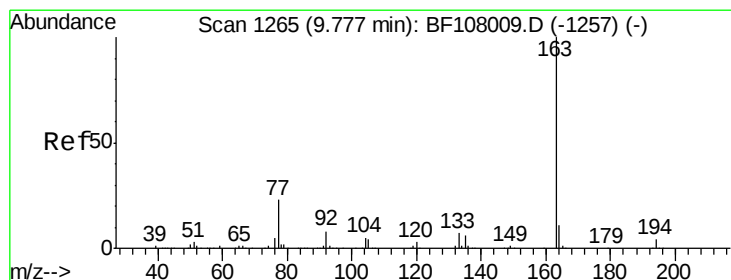
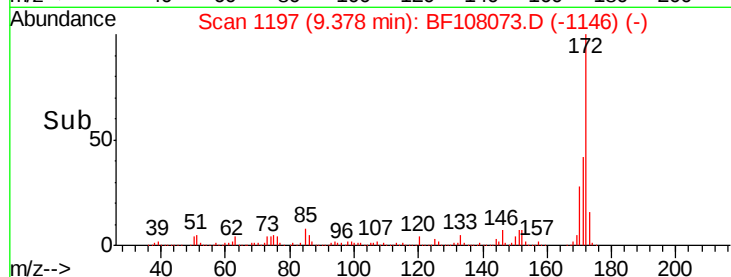
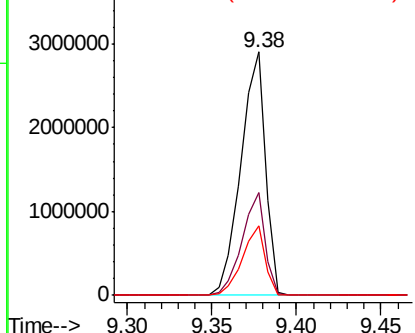
#44  
 2-Fluorobiphenyl  
 Concen: 115.280 ng  
 RT: 9.38 min Scan# 1197  
 Delta R.T. 0.00 min  
 Lab File: BF108073.D  
 Acq: 10 Aug 2018 1:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 080618-TIPC-E-U-M

Tgt Ion:172 Resp: 2970401  
 Ion Ratio Lower Upper  
 172 100  
 171 42.1 29.7 44.5  
 170 28.5 19.6 29.4

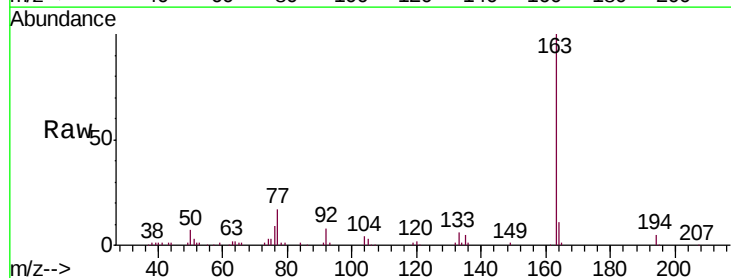


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

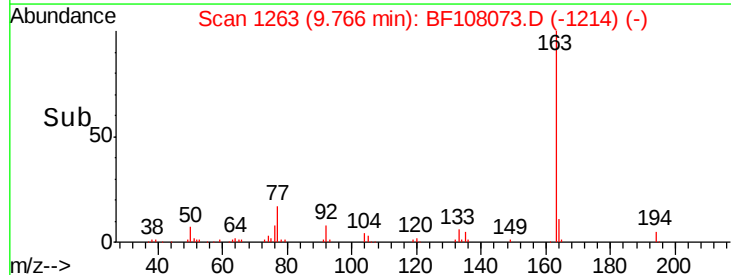
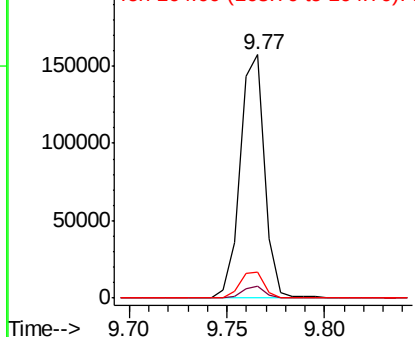


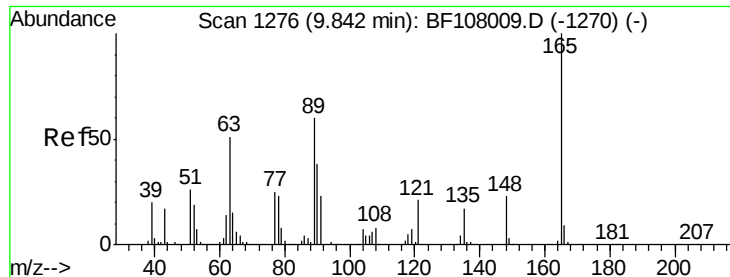
#49  
 Dimethylphthalate  
 Concen: 4.731 ng  
 RT: 9.77 min Scan# 1263  
 Delta R.T. -0.01 min  
 Lab File: BF108073.D  
 Acq: 10 Aug 2018 1:35

Tgt Ion:163 Resp: 136336  
 Ion Ratio Lower Upper  
 163 100  
 194 4.7 2.7 4.1#  
 164 10.5 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

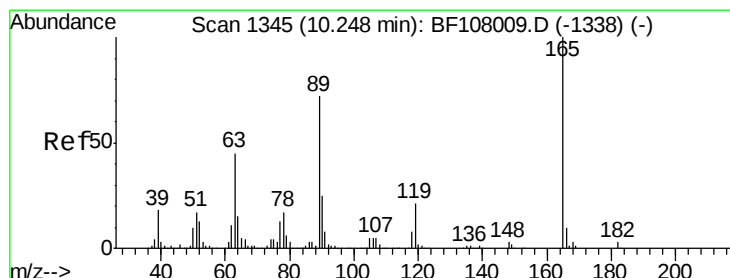
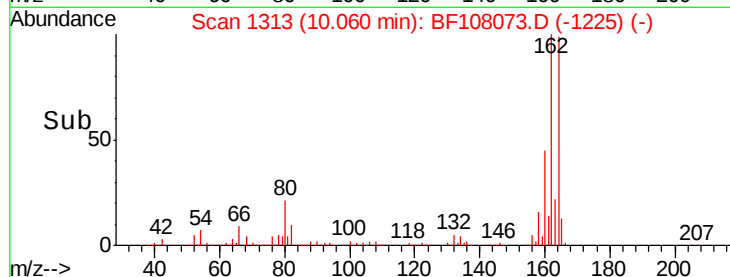
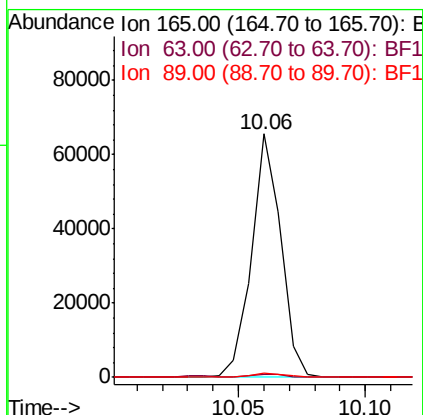
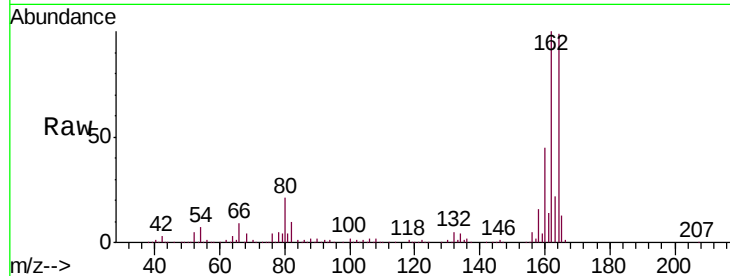




#50  
 2,6-Dinitrotoluene  
 Concen: 8.778 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. 0.22 min  
 Lab File: BF108073.D  
 Acq: 10 Aug 2018 1:35

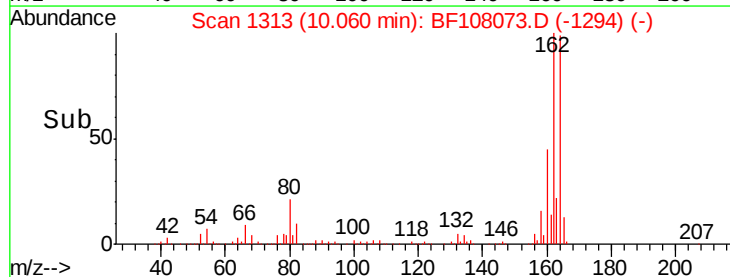
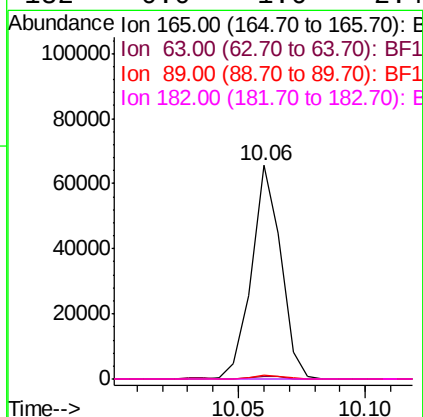
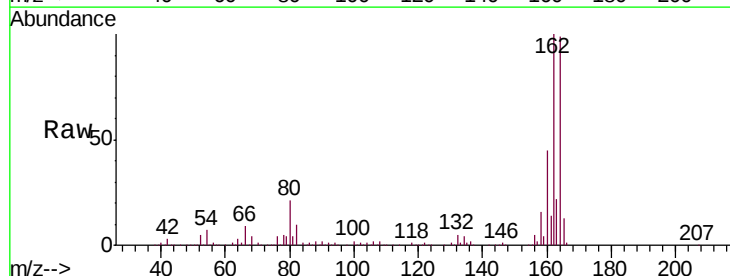
Instrument :  
 BNA\_F  
 ClientSampleId :  
 080618-TIPC-E-U-M

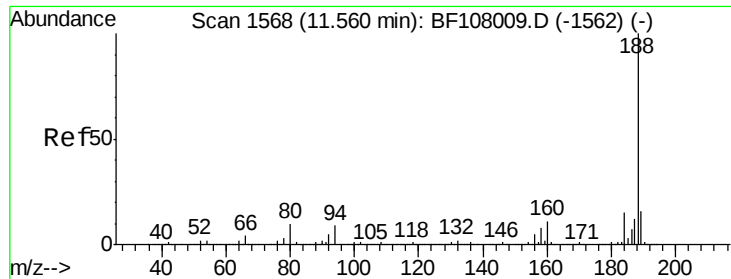
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 44.7  | 67.1# |
| 89      | 1.5   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.819 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. -0.19 min  
 Lab File: BF108073.D  
 Acq: 10 Aug 2018 1:35

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

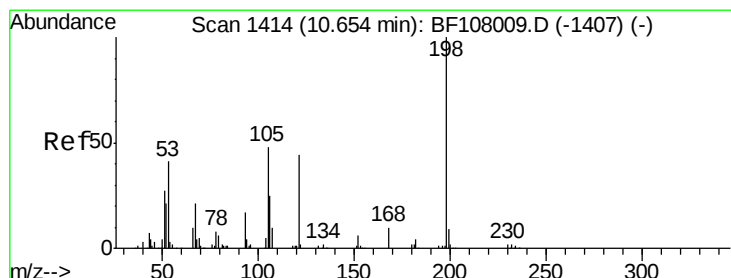
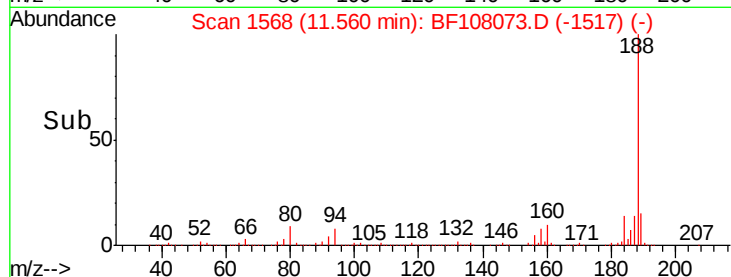
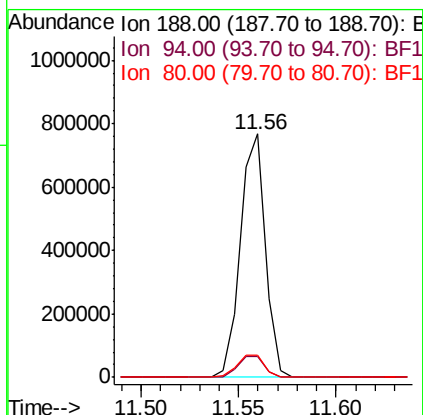
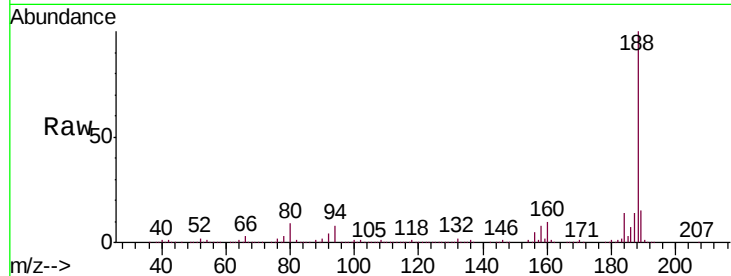




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.56 min Scan# 1568  
Delta R.T. 0.00 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

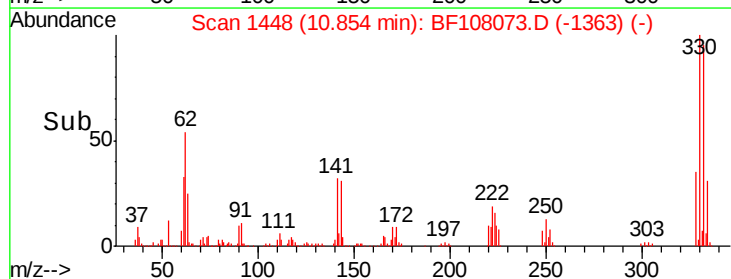
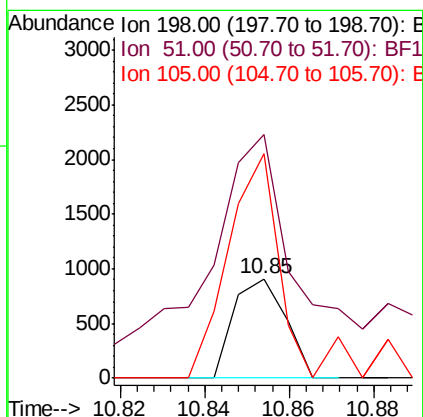
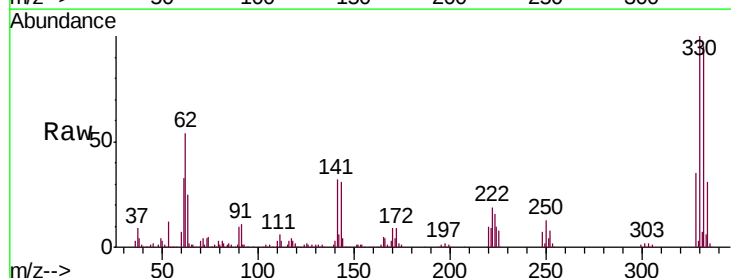
Instrument :  
BNA\_F  
ClientSampleId :  
080618-TIPC-E-U-M

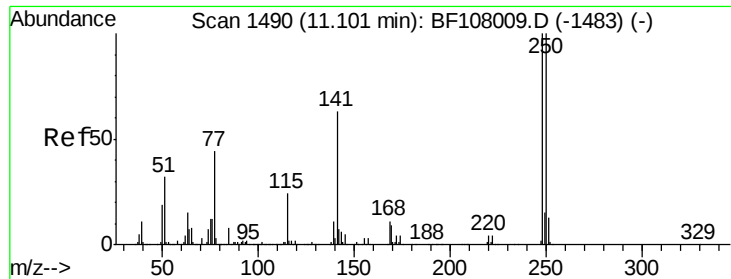
Tgt Ion:188 Resp: 679839  
Ion Ratio Lower Upper  
188 100  
94 8.3 8.5 12.7#  
80 9.1 9.2 13.8#



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.629 ng  
RT: 10.85 min Scan# 1448  
Delta R.T. 0.20 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Tgt Ion:198 Resp: 776  
Ion Ratio Lower Upper  
198 100  
51 245.3 37.7 77.7#  
105 225.6 36.3 76.3#

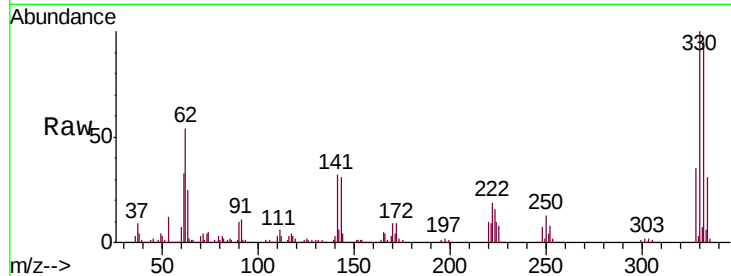




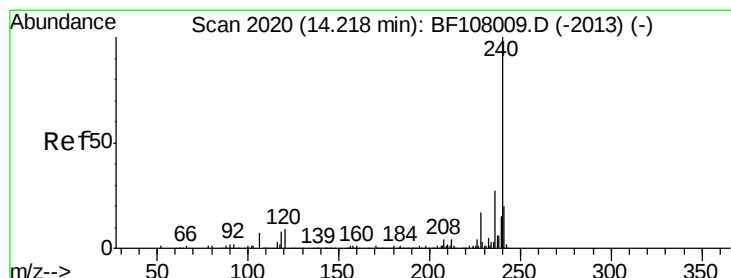
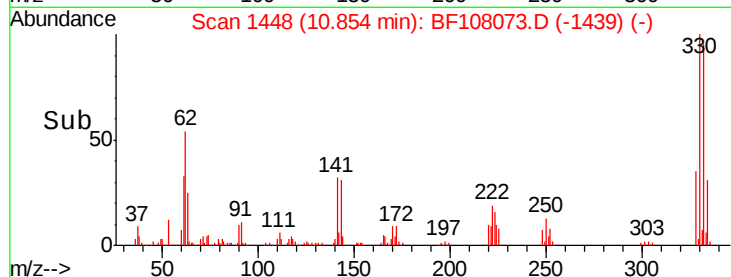
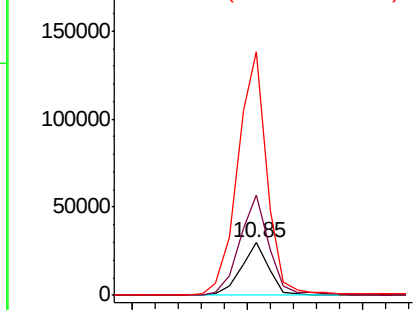
#66  
4-Bromophenyl-phenylether  
Concen: 3.388 ng  
RT: 10.85 min Scan# 1448  
Delta R.T. -0.25 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Instrument :  
BNA\_F  
ClientSampleId :  
080618-TIPC-E-U-M

Tgt Ion:248 Resp: 25030  
Ion Ratio Lower Upper  
248 100  
250 191.1 76.9 115.3#  
141 461.9 74.4 111.6#

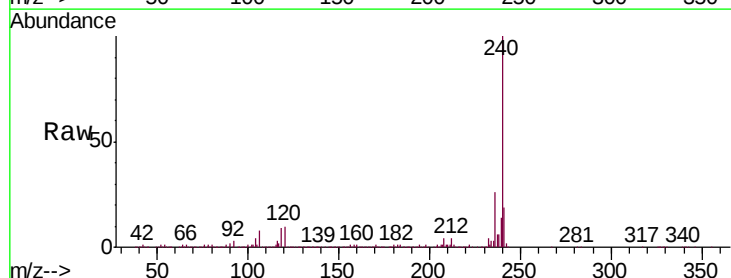


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

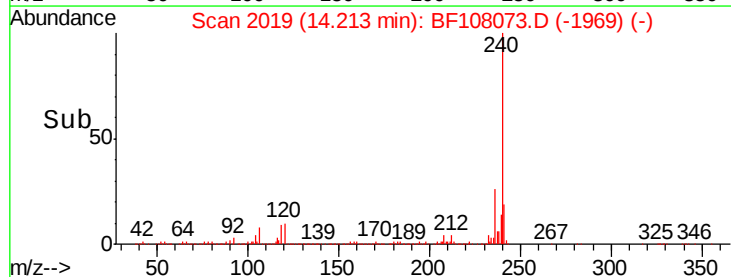
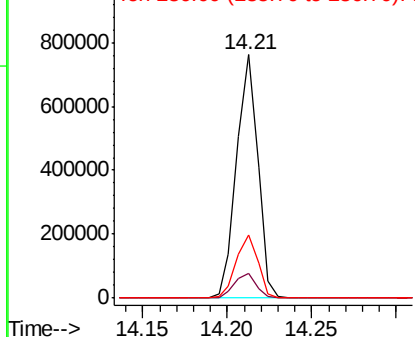


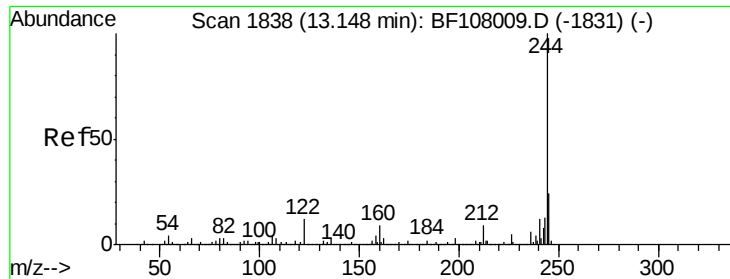
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.21 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF108073.D  
Acq: 10 Aug 2018 1:35

Tgt Ion:240 Resp: 667690  
Ion Ratio Lower Upper  
240 100  
120 10.4 9.5 14.3  
236 26.0 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: 93.379 ng

RT: 13.15 min Scan# 1838

Delta R.T. 0.00 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

Instrument :

BNA\_F

ClientSampleId :

080618-TIPC-E-U-M

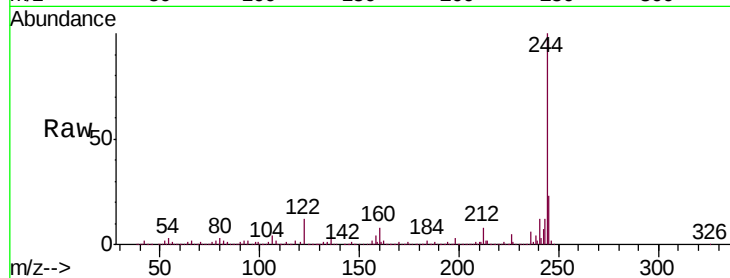
Tgt Ion:244 Resp: 2452162

Ion Ratio Lower Upper

244 100

212 8.2 5.4 8.0#

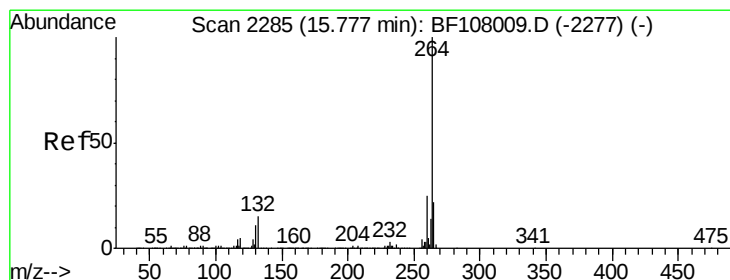
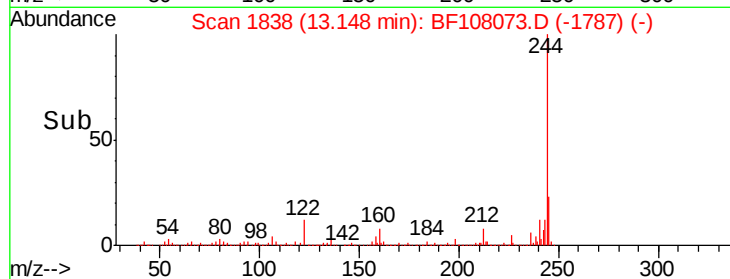
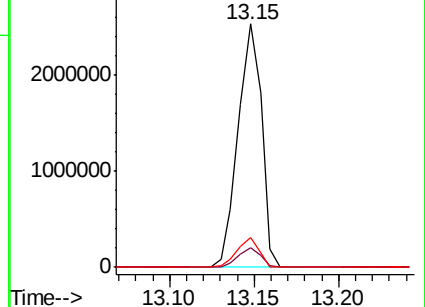
122 12.2 11.0 16.4



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: 15.77 min Scan# 2284

Delta R.T. -0.01 min

Lab File: BF108073.D

Acq: 10 Aug 2018 1:35

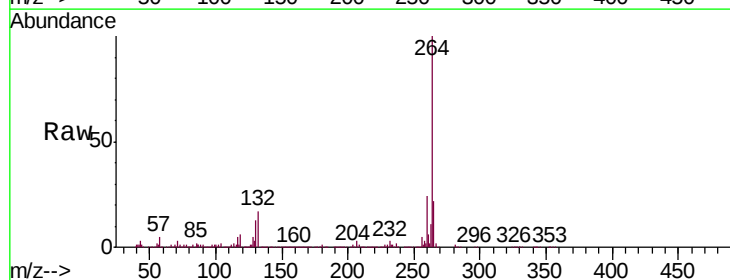
Tgt Ion:264 Resp: 475316

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

265 21.8 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

