

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\  
 Data File : BF102733.D  
 Acq On : 5 Feb 2018 13:07  
 Operator : SJ/JU  
 Sample : J1453-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 05 15:57:28 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 12:44:16 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 232122   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 930768   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 411714   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 637105   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 403921   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 396321   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 1440008  | 94.21 | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 1703562  | 92.57 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 1052799  | 78.47 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.71 | 330  | 330508   | 99.74 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 1693962  | 68.27 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.99 | 244  | 1231669  | 72.20 | ng    | 0.00     |

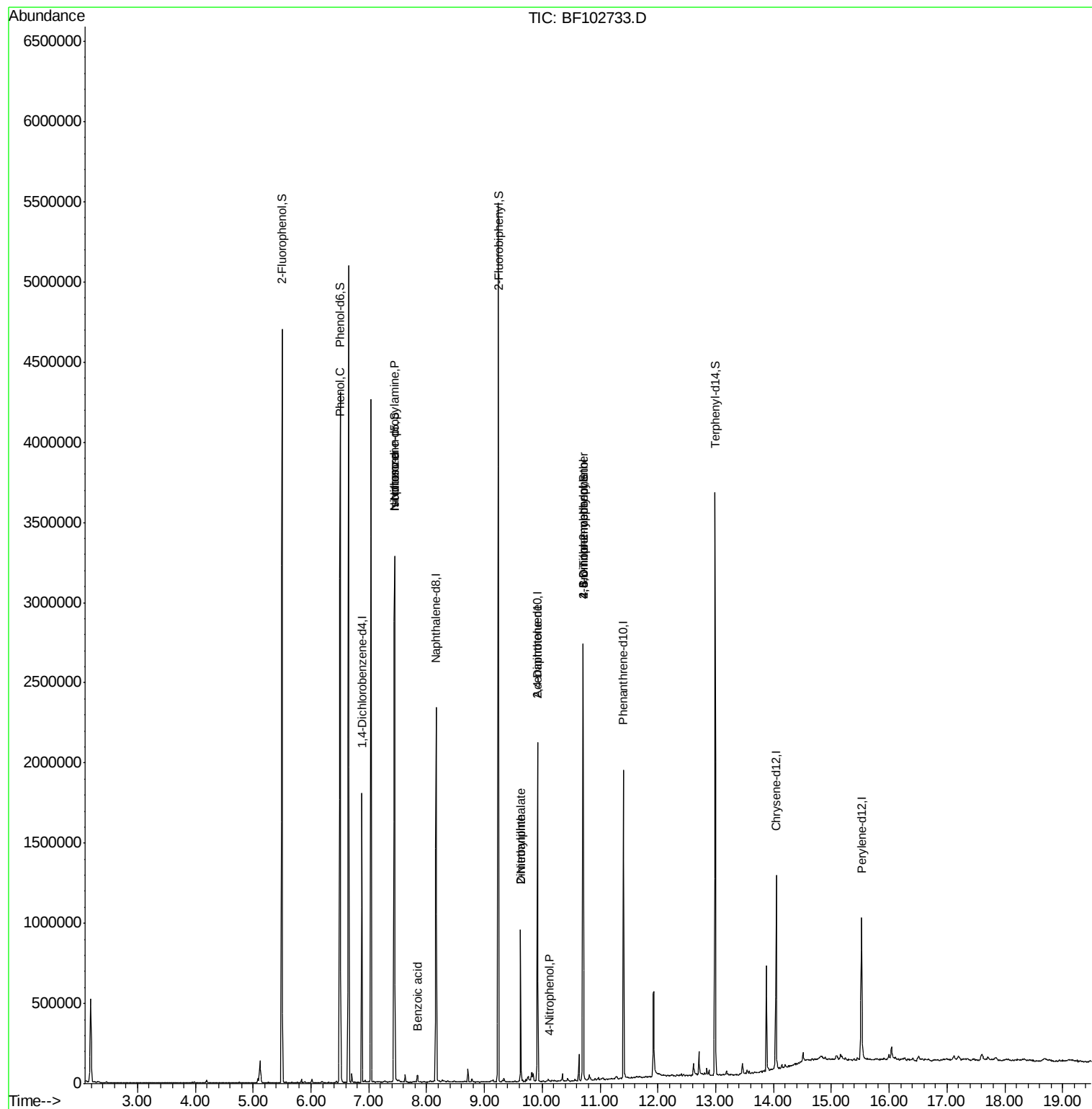
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.52  | 94   | 76010    | 3.854  | ng    | 95     |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 139882   | 11.528 | ng    | # 79   |
| 25) Isophorone                 | 7.45  | 82   | 1052785  | 34.076 | ng    | # 64   |
| 32) Benzoic acid               | 7.84  | 122  | 10394    | 9.630  | ng    | 98     |
| 47) 2-Nitroaniline             | 9.63  | 65   | 3470     | 3.854  | ng    | # 1    |
| 49) Dimethylphthalate          | 9.63  | 163  | 330663   | 10.300 | ng    | 99     |
| 55) 4-Nitrophenol              | 10.12 | 139  | 265      | 4.065  | ng    | # 9    |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 52526    | 9.077  | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198  | 855      | 9.091  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248  | 20672    | 3.067  | ng    | # 1    |

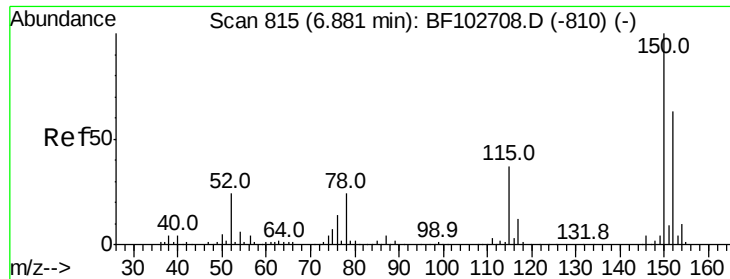
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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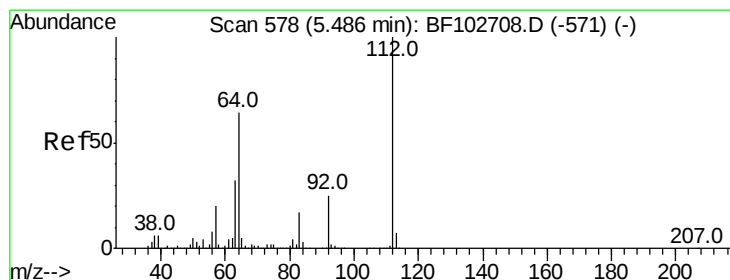
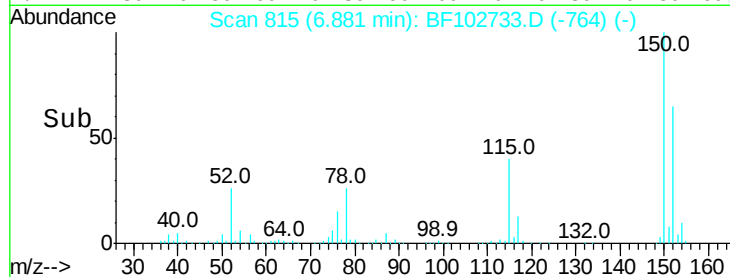
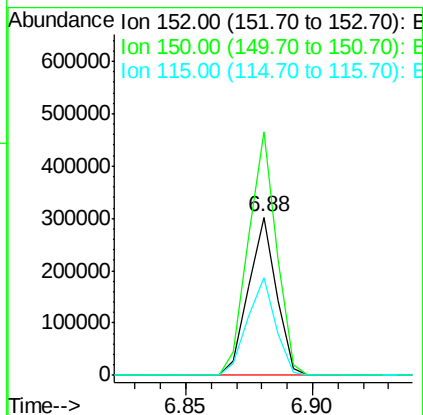
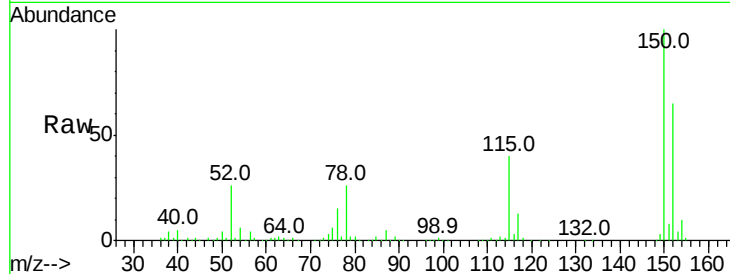


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF102733.D  
Acq: 5 Feb 2018 13:07

Instrument :  
BNA\_F  
ClientSampleId :

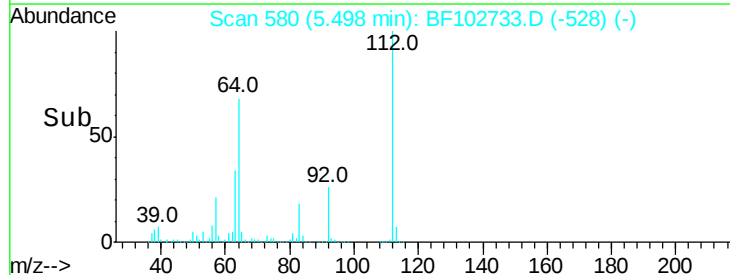
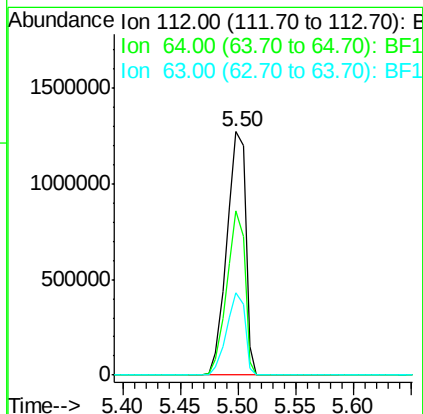
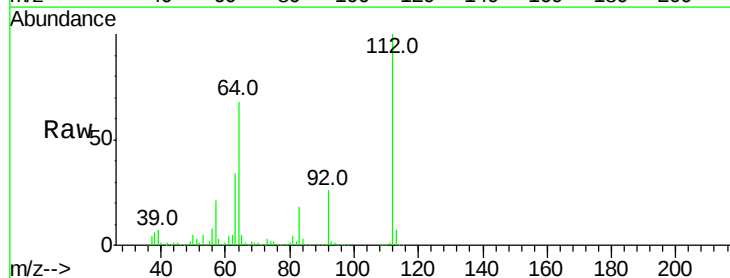
Tot Ion:152 Resp: 232122  
Ion Ratio Lower Upper  
152 100  
150 153.7 124.6 186.8  
115 61.7 50.1 75.1

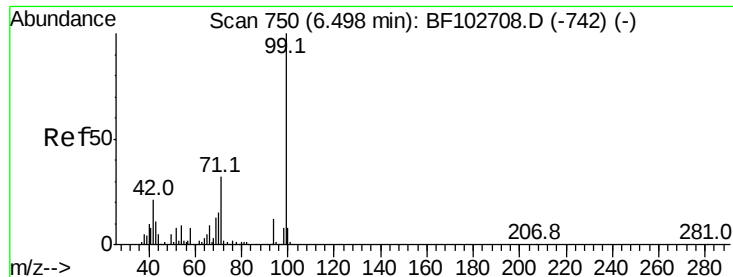


#5

2-Fluorophenol  
Concen: 94.213 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF102733.D  
Acq: 5 Feb 2018 13:07

Tgt Ion:112 Resp: 1440008  
Ion Ratio Lower Upper  
112 100  
64 67.6 47.9 71.9  
63 34.0 23.7 35.5





#7

Phenol-d6

Concen: 92.566 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

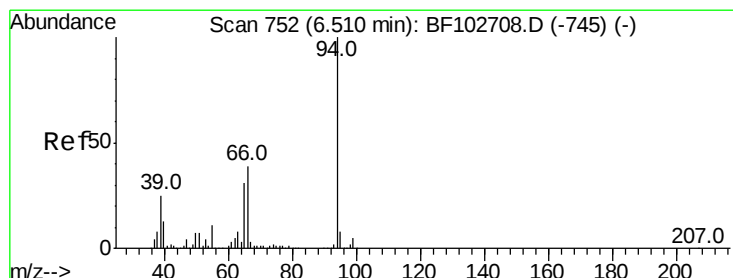
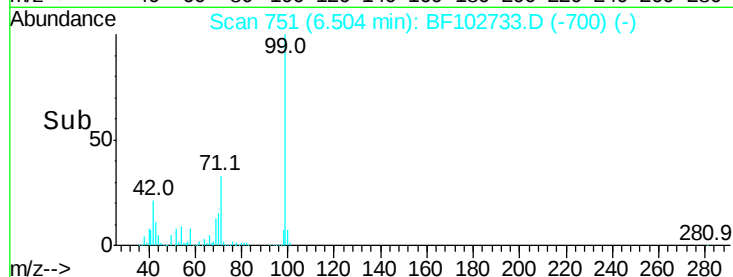
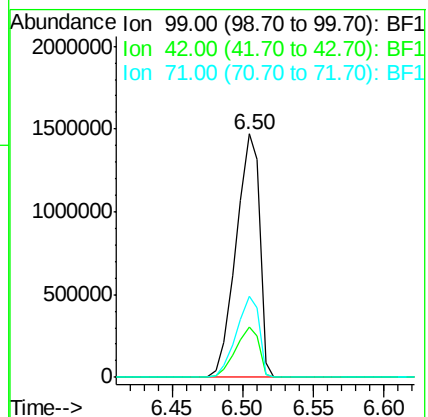
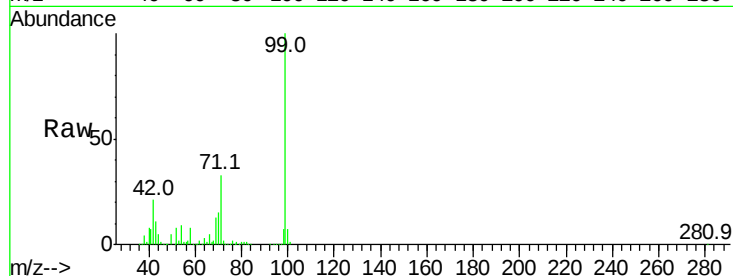
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1703562

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.7  | 14.5  | 21.7  |
| 71  | 33.4  | 25.4  | 38.0  |



#10

Phenol

Concen: 3.854 ng

RT: 6.52 min Scan# 753

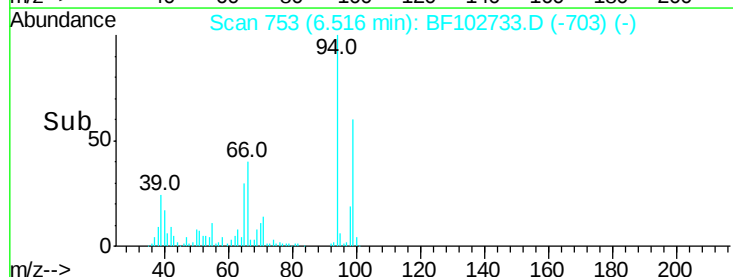
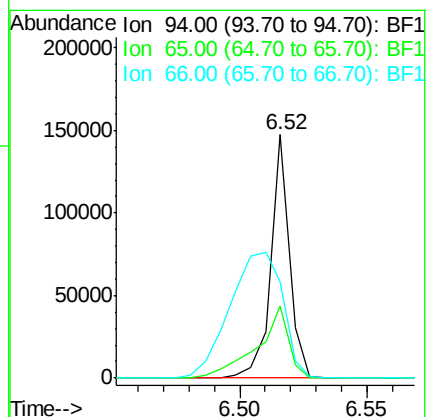
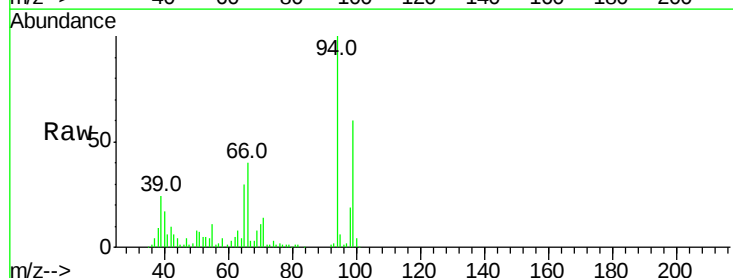
Delta R.T. -0.01 min

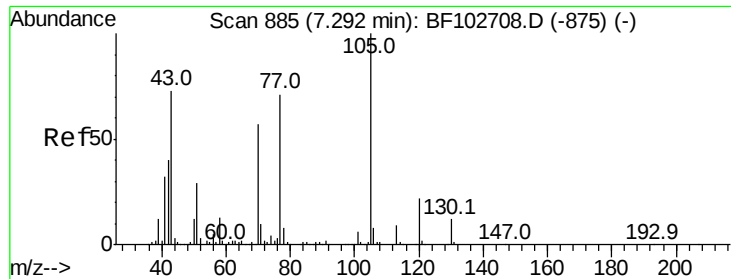
Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

Tgt Ion: 94 Resp: 76010

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 29.7  | 7.9   | 47.9  |
| 66  | 39.6  | 16.2  | 56.2  |

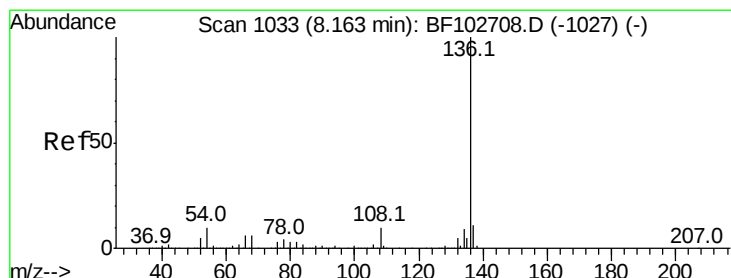
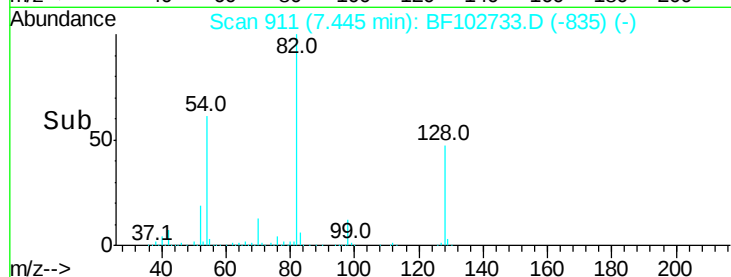
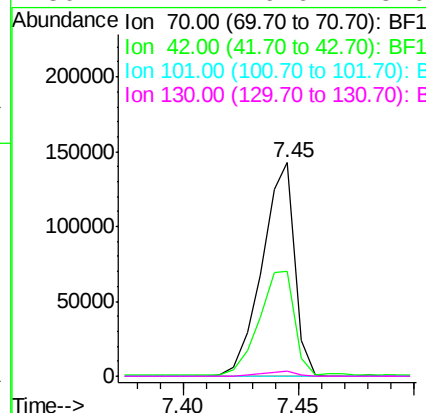
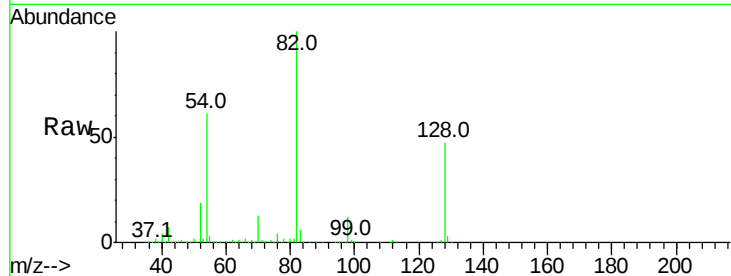




#19  
 n-Nitroso-di-n-propylamine  
 Concen: 11.528 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. 0.15 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

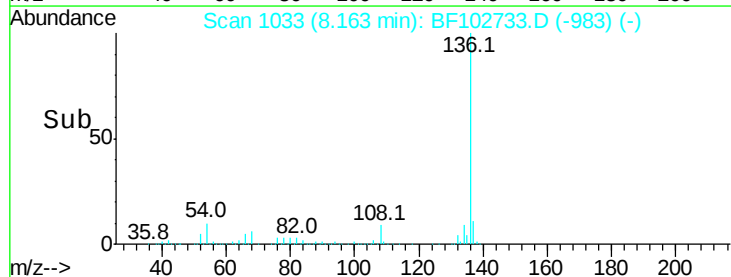
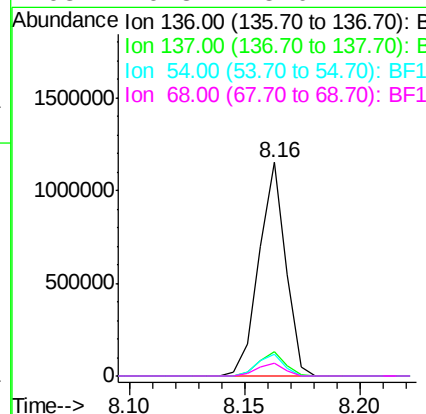
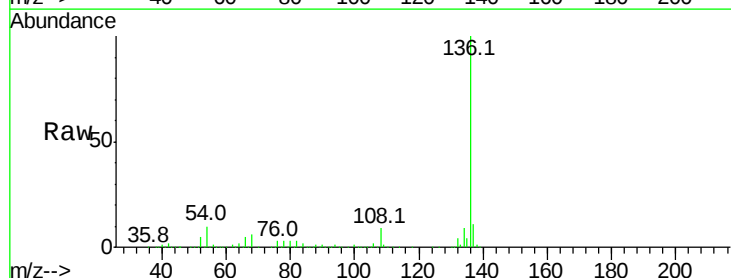
Instrument :  
 BNA\_F  
 ClientSampled :

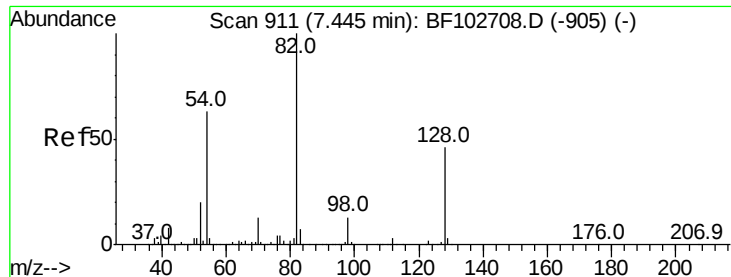
Tot Ion: 70 Resp: 139882  
 Ion Ratio Lower Upper  
 70 100  
 42 49.4 47.5 71.3  
 101 0.0 7.4 11.2#  
 130 2.2 16.6 25.0#



#21  
 Naphthalene-d8  
 Concen: 20.000 ng  
 RT: 8.16 min Scan# 1033  
 Delta R.T. -0.01 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Tgt Ion:136 Resp: 930768  
 Ion Ratio Lower Upper  
 136 100  
 137 11.4 8.9 13.3  
 54 10.0 6.6 9.8#  
 68 6.3 5.0 7.4

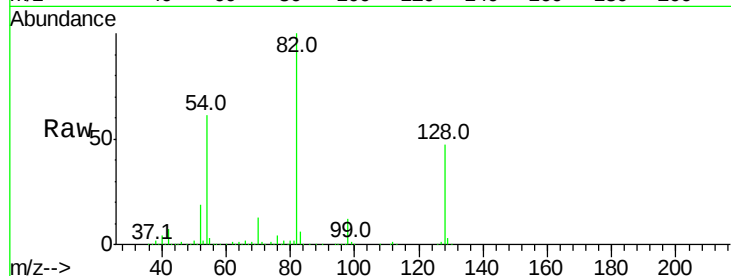




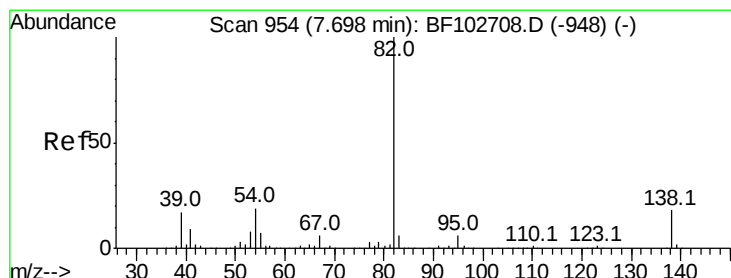
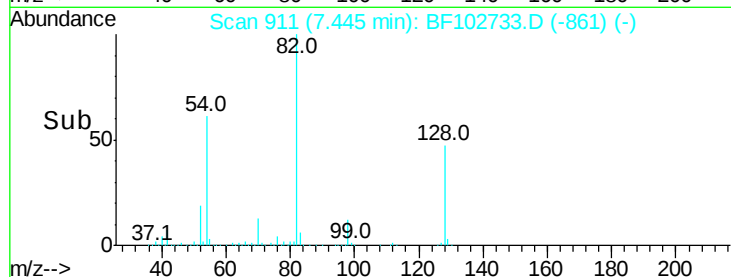
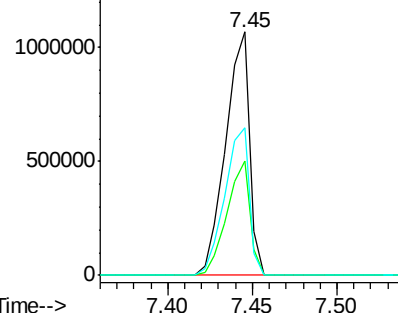
#23  
 Nitrobenzene-d5  
 Concen: 78.466 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 1052799  
 Ion Ratio Lower Upper  
 82 100  
 128 47.1 36.1 54.1  
 54 60.6 41.4 62.2

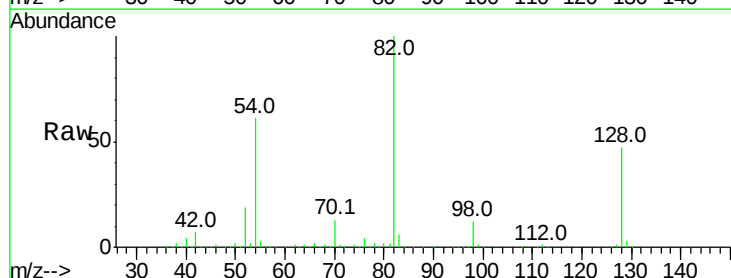


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

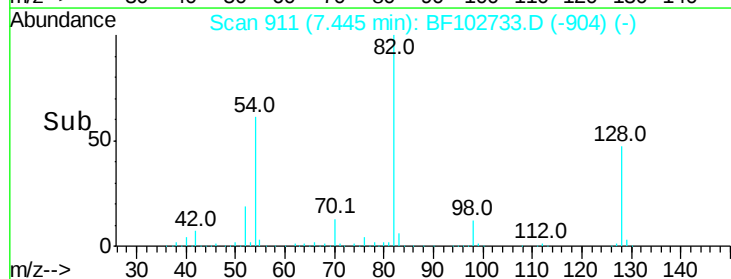
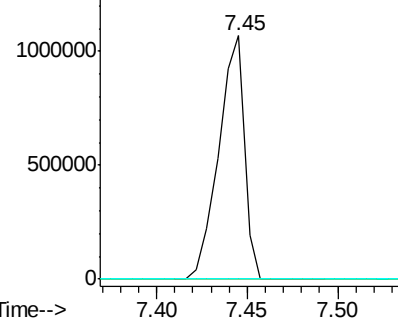


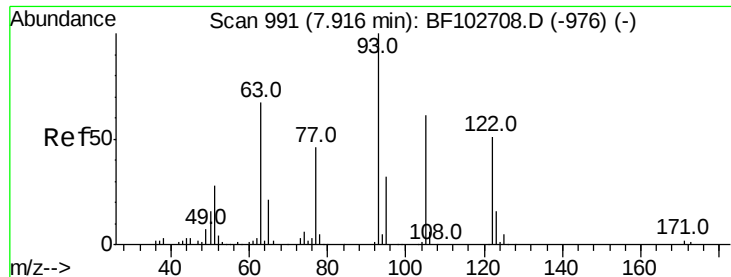
#25  
 Isophorone  
 Concen: 34.076 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.26 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Tgt Ion: 82 Resp: 1052785  
 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: 9.630 ng

RT: 7.84 min Scan# 978

Delta R.T. -0.09 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

Instrument :

BNA\_F

ClientSampleId :

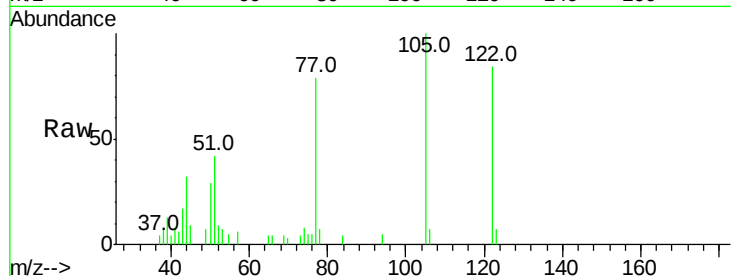
Tot Ion:122 Resp: 10394

Ion Ratio Lower Upper

122 100

105 119.3 101.1 141.1

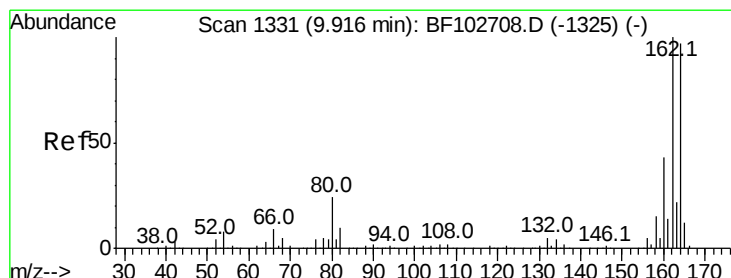
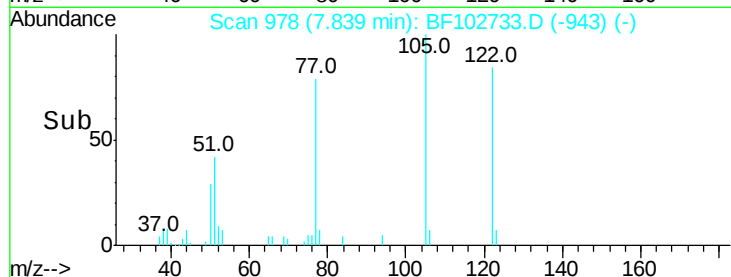
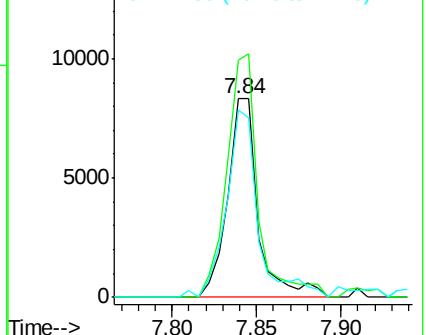
77 94.0 70.7 110.7



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: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

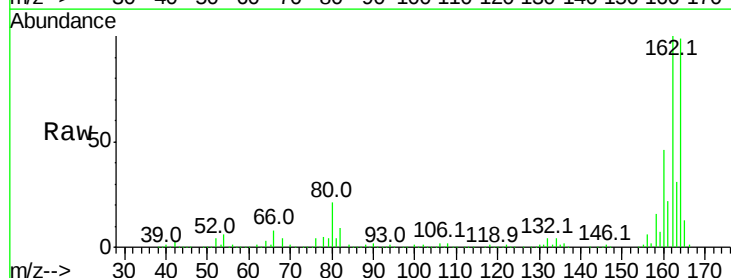
Tgt Ion:164 Resp: 411714

Ion Ratio Lower Upper

164 100

162 101.4 86.1 129.1

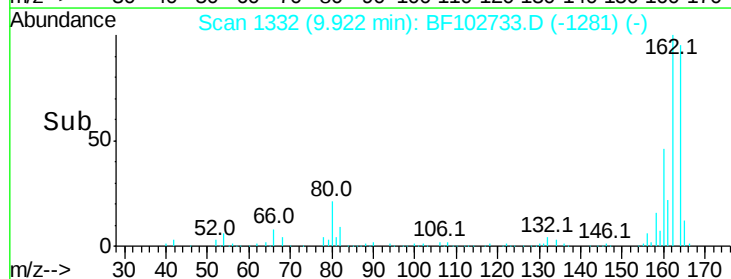
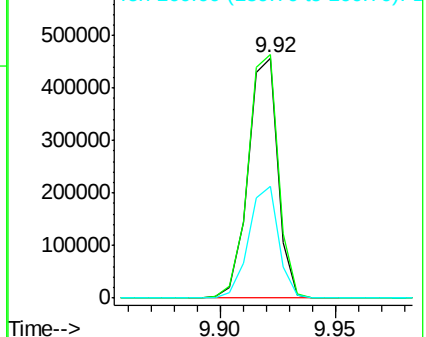
160 46.3 38.3 57.5

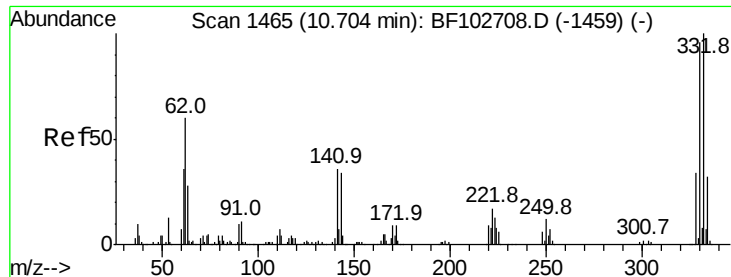


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

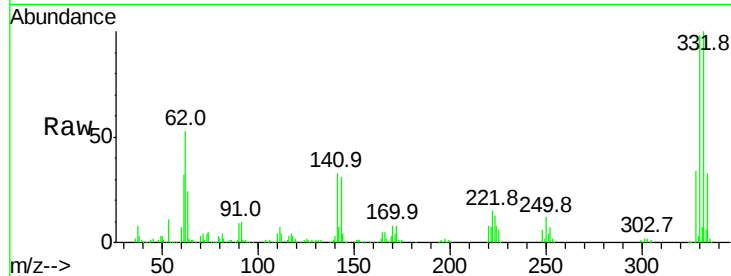




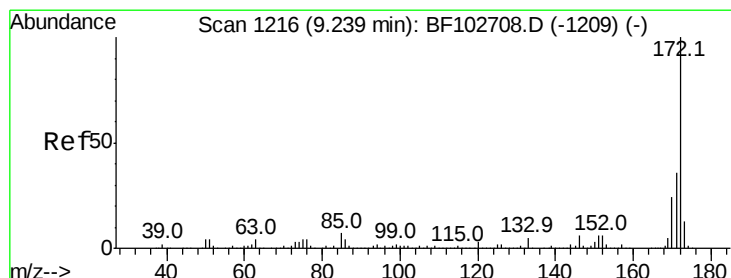
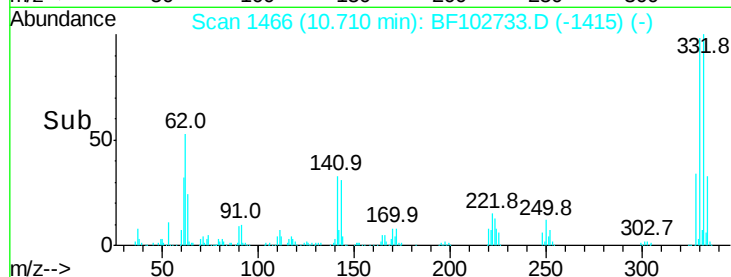
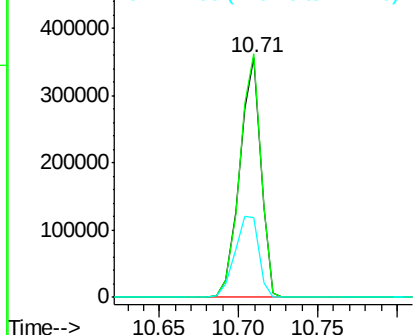
#41  
 2,4,6-Tribromophenol  
 Concen: 99.736 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 101.2 | 77.0  | 115.6 |
| 141     | 38.1  | 29.9  | 44.9  |

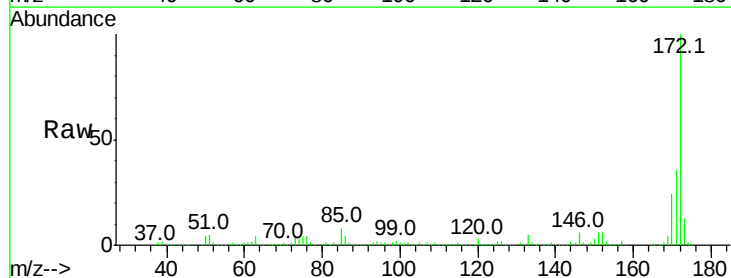


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

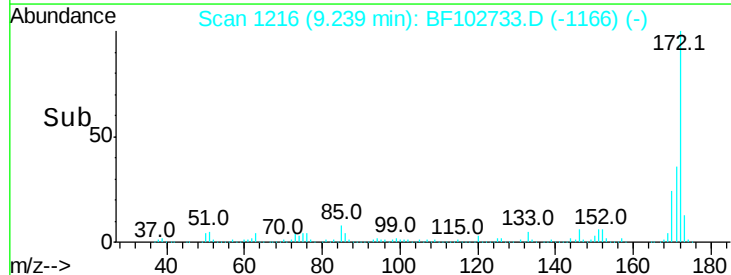
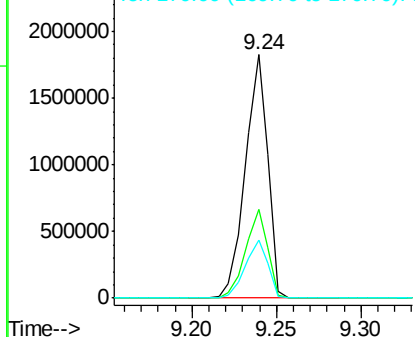


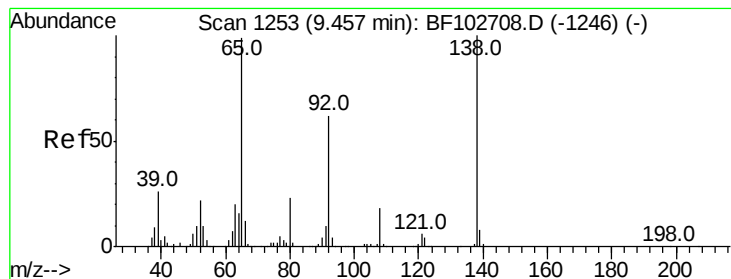
#44  
 2-Fluorobiphenyl  
 Concen: 68.273 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 23.7  | 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





#47

2-Nitroaniline

Concen: 3.854 ng

RT: 9.63 min Scan# 1282

Delta R.T. 0.16 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

Instrument :

BNA\_F

ClientSampleId :

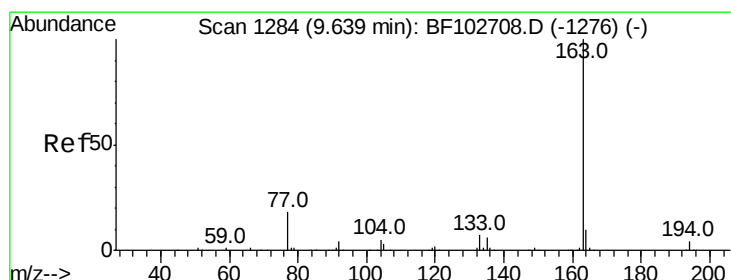
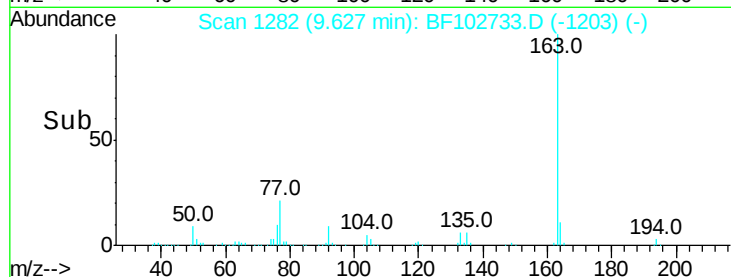
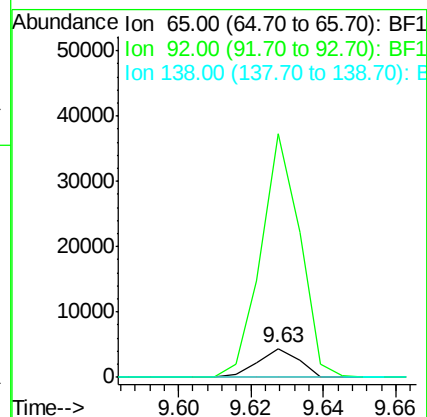
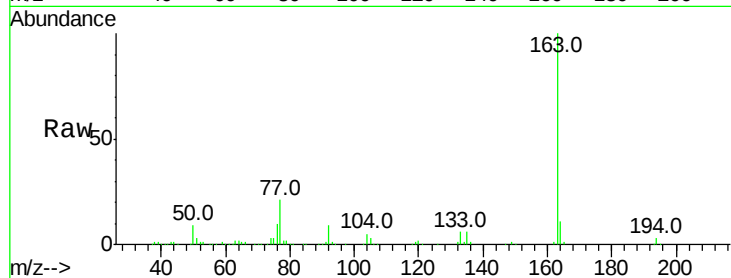
Tot Ion: 65 Resp: 3470

Ion Ratio Lower Upper

65 100

92 834.0 55.8 83.6#

138 0.0 91.2 136.8#



#49

Dimethylphthalate

Concen: 10.300 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

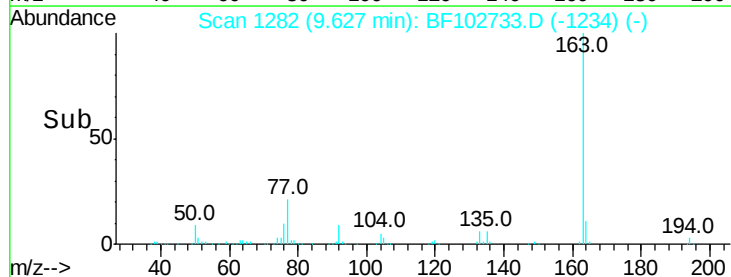
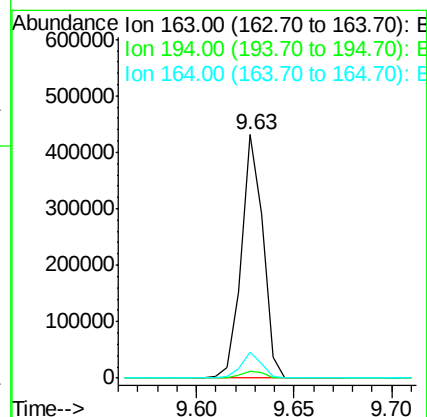
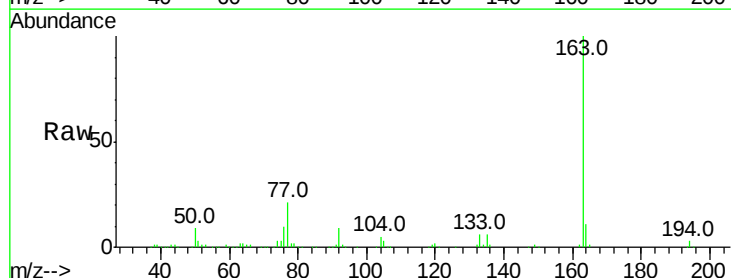
Tgt Ion: 163 Resp: 330663

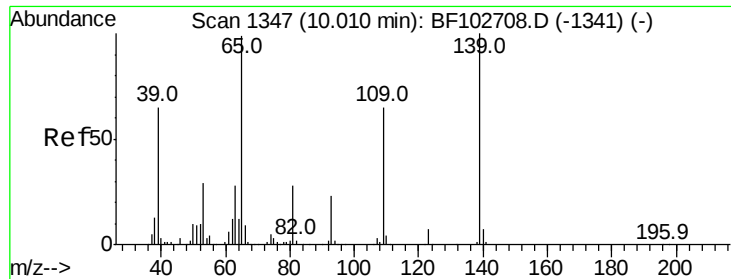
Ion Ratio Lower Upper

163 100

194 2.8 2.7 4.1

164 10.6 8.2 12.2

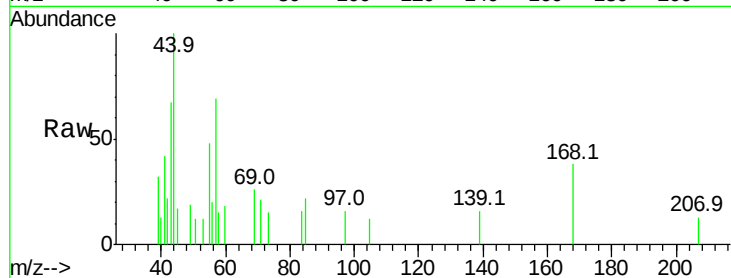




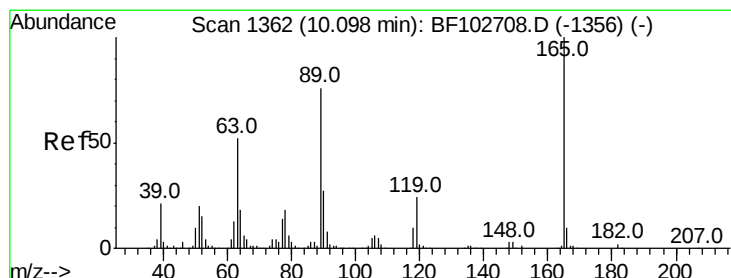
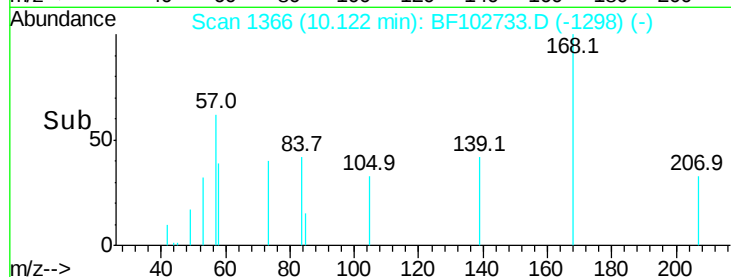
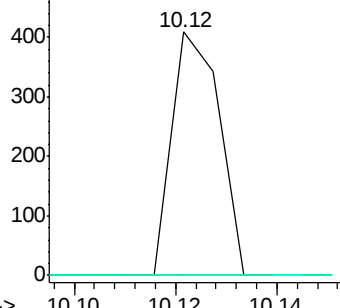
#55  
4-Nitrophenol  
Concen: 4.065 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. 0.10 min  
Lab File: BF102733.D  
Acq: 5 Feb 2018 13:07

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:139 Resp: 265  
Ion Ratio Lower Upper  
139 100  
109 0.0 48.4 88.4#  
65 0.0 72.6 112.6#

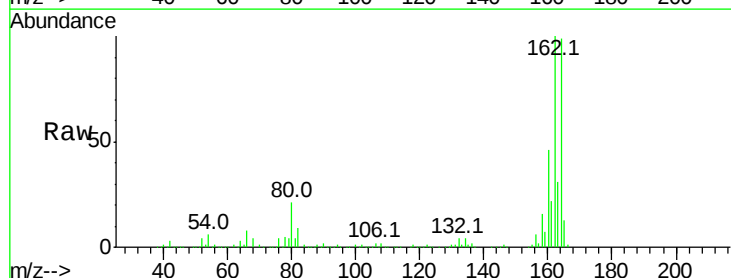


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF1

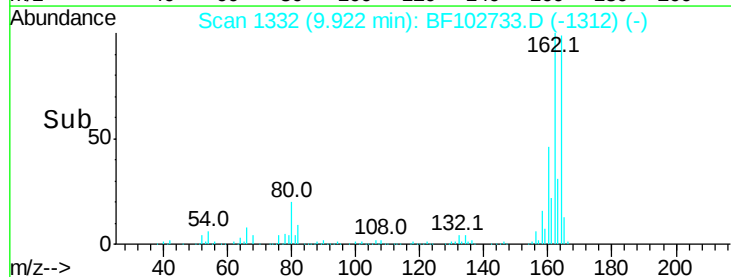
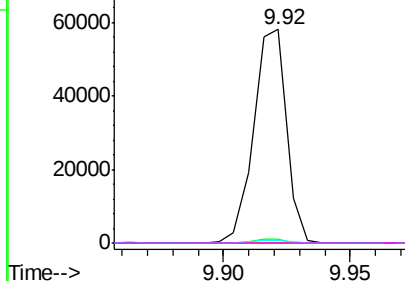


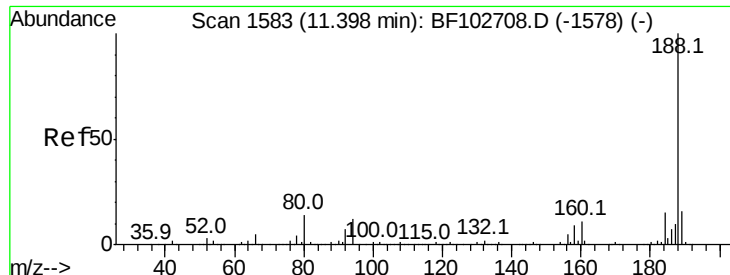
#56  
2,4-Dinitrotoluene  
Concen: 9.077 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.18 min  
Lab File: BF102733.D  
Acq: 5 Feb 2018 13:07

Tgt Ion:165 Resp: 52526  
Ion Ratio Lower Upper  
165 100  
63 1.6 36.4 54.6#  
89 1.5 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

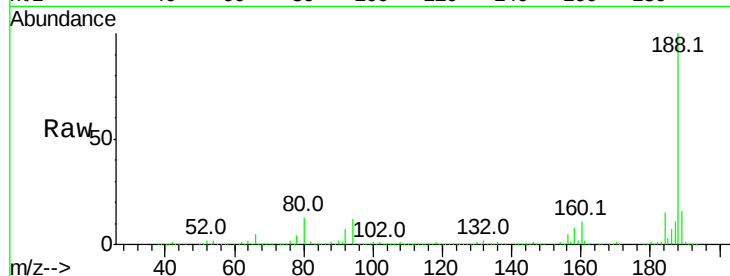




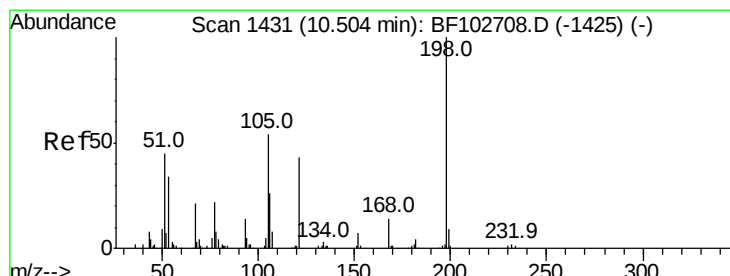
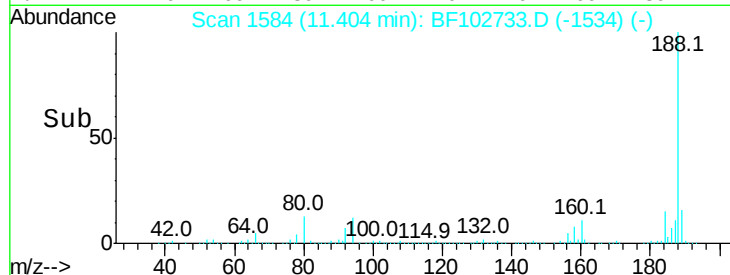
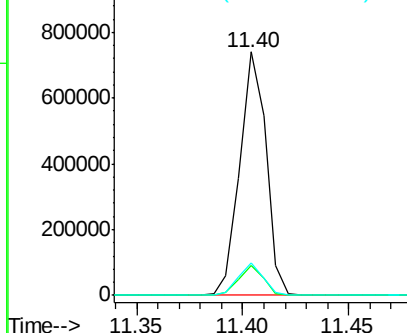
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:188 Resp: 637105  
 Ion Ratio Lower Upper  
 188 100  
 94 12.1 8.5 12.7  
 80 13.2 9.2 13.8

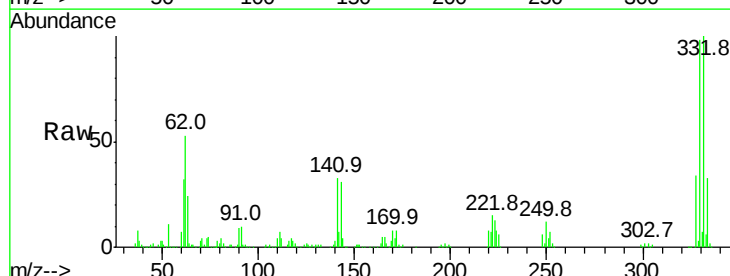


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

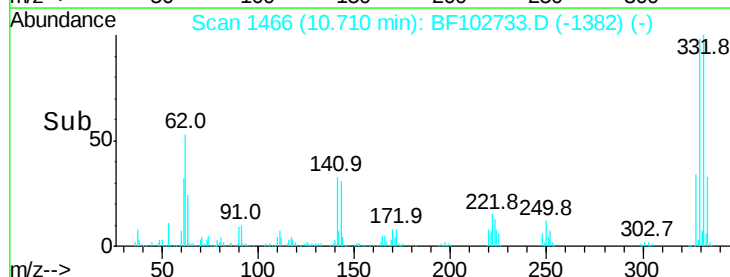
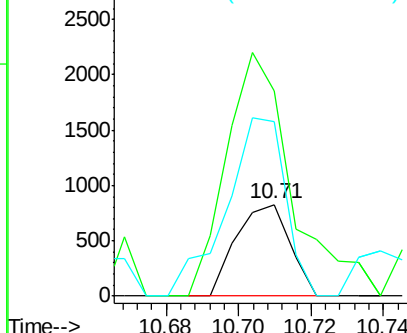


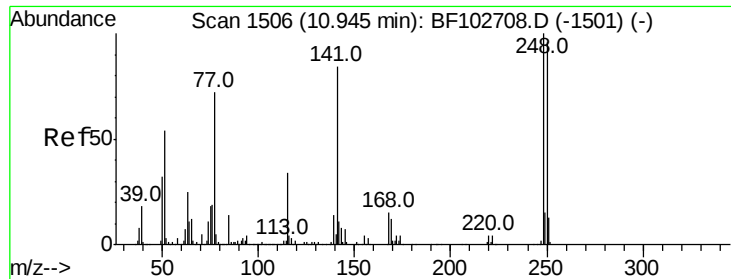
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 9.091 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. 0.19 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Tgt Ion:198 Resp: 855  
 Ion Ratio Lower Upper  
 198 100  
 51 223.6 37.7 77.7#  
 105 190.6 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

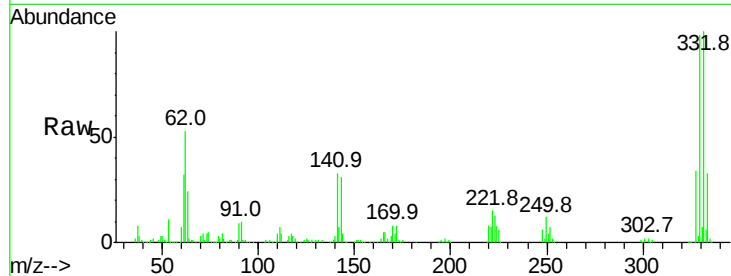




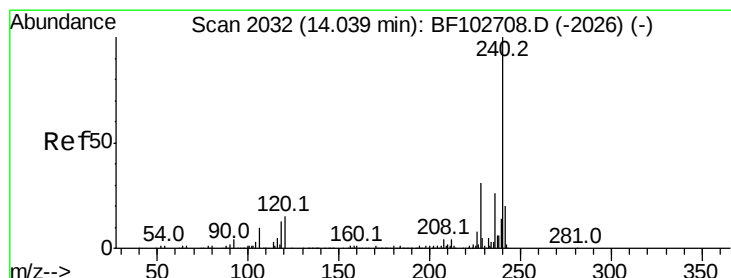
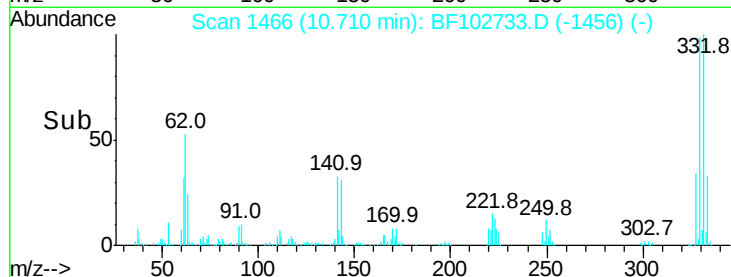
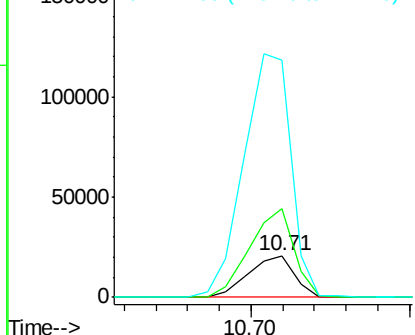
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.067 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.24 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 20672  
 Ion Ratio Lower Upper  
 248 100  
 250 211.9 76.9 115.3#  
 141 569.9 74.4 111.6#

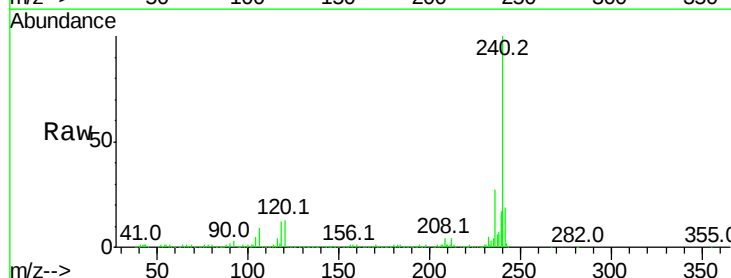


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

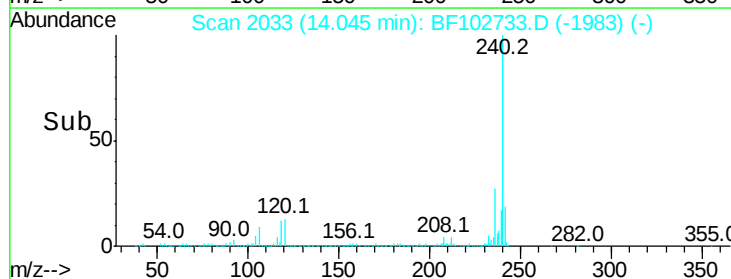
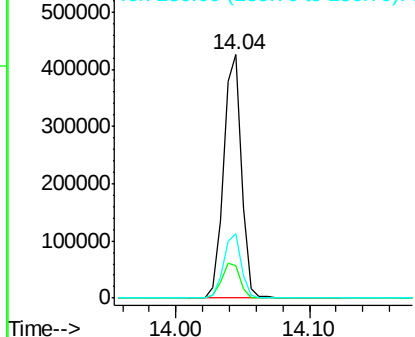


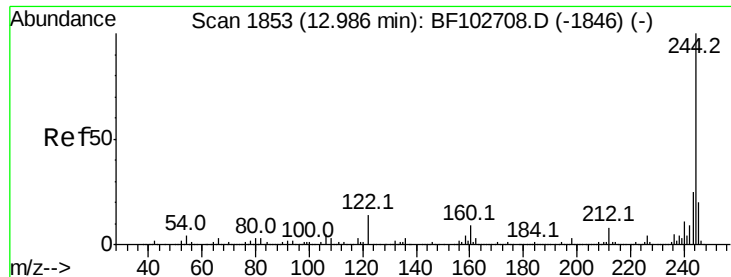
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF102733.D  
 Acq: 5 Feb 2018 13:07

Tgt Ion:240 Resp: 403921  
 Ion Ratio Lower Upper  
 240 100  
 120 13.3 9.5 14.3  
 236 26.7 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: 72.200 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

Instrument :

BNA\_F

ClientSampleId :

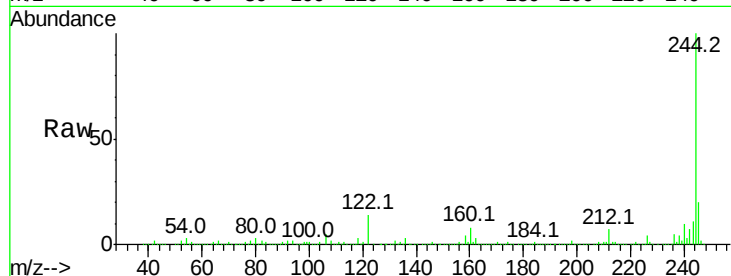
Tot Ion:244 Resp: 1231669

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

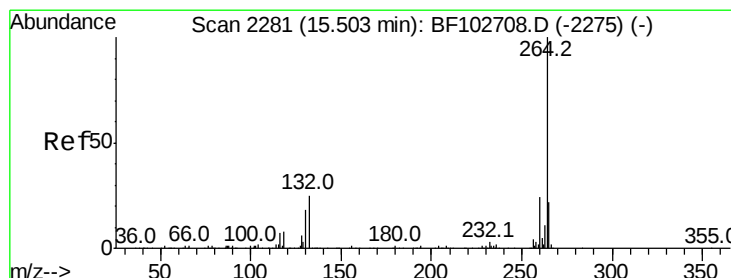
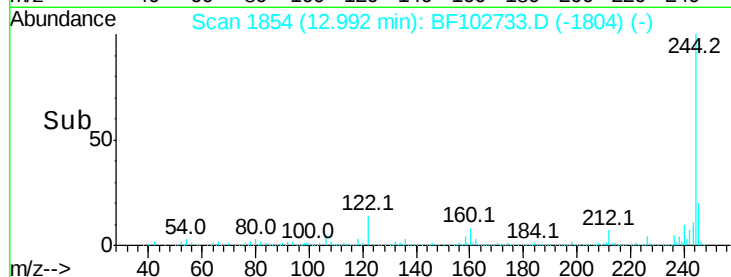
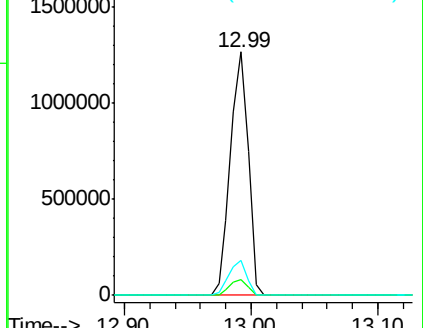
122 14.1 11.0 16.4



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: 15.52 min Scan# 2284

Delta R.T. -0.01 min

Lab File: BF102733.D

Acq: 5 Feb 2018 13:07

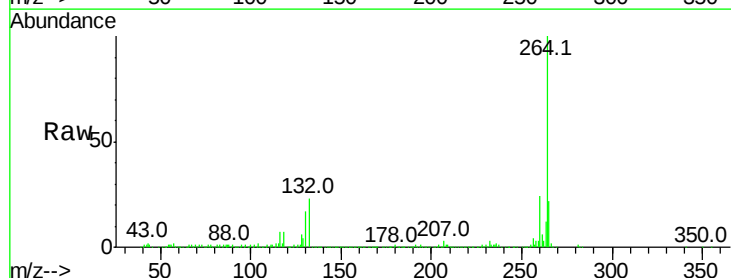
Tgt Ion:264 Resp: 396321

Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

265 22.3 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

