

Data Path : U:\HPCHEM1\BNA F\DATA\BF020518\  
 Data File : BF102764.D  
 Acq On : 6 Feb 2018 3:57  
 Operator : SJ/JU  
 Sample : J1454-01  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 06 05:05:34 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  | 238988   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 985670   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 426003   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 636657   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.04 | 240  | 401694   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.52 | 264  | 373959   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 1393711 | 88.56 | ng | 0.00 |
| 7) Phenol-d6             | 6.51  | 99  | 1682707 | 88.81 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.45  | 82  | 1056109 | 74.33 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 303787  | 88.60 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.24  | 172 | 1363508 | 53.11 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 891071  | 52.52 | ng | 0.00 |

## Target Compounds

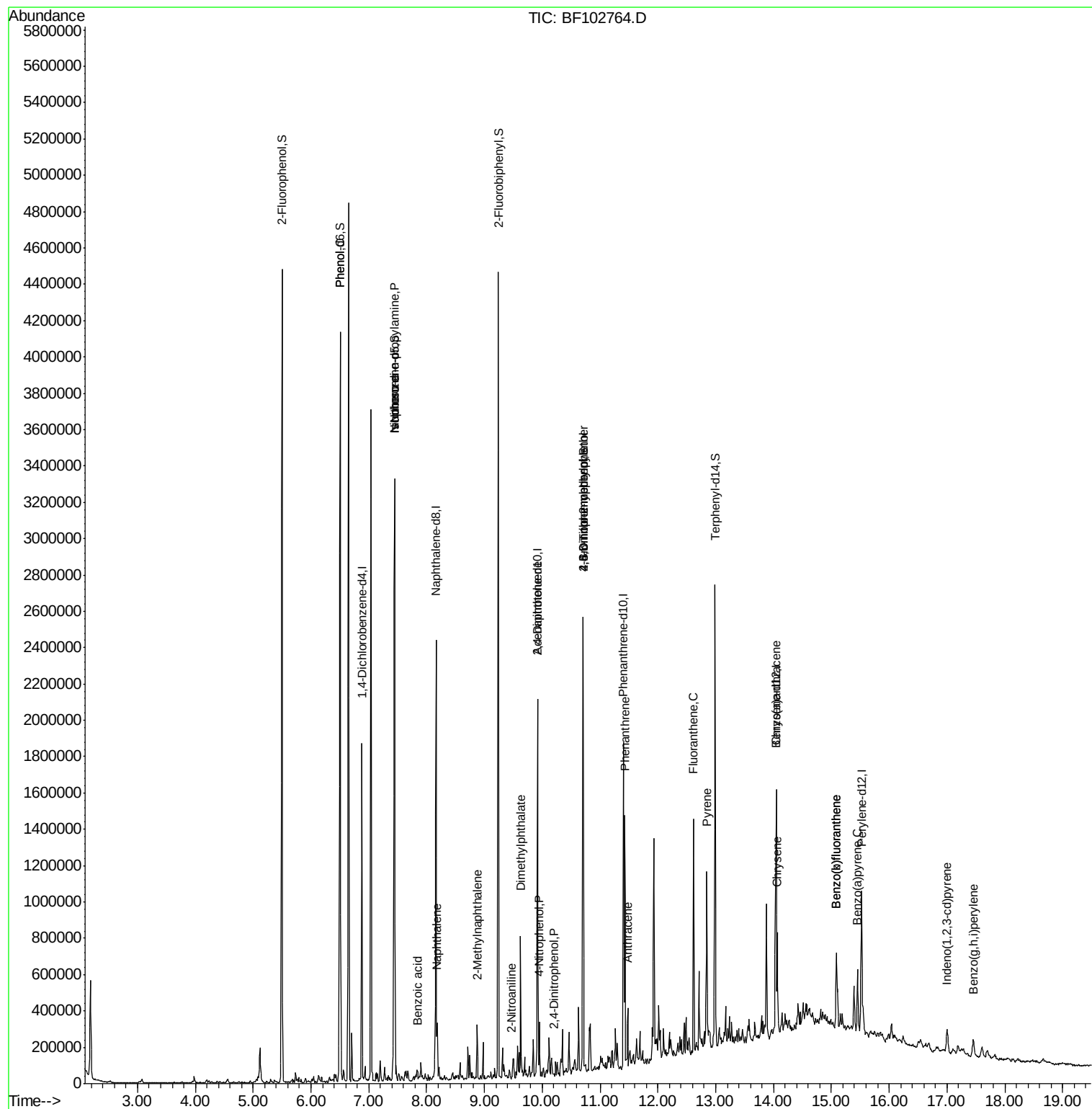
|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 10) Phenol                     | 6.52  | 94  | 88021   | 4.335  | ng | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70  | 139549  | 11.170 | ng | # 81   |
| 25) Isophorone                 | 7.45  | 82  | 1056616 | 32.295 | ng | # 64   |
| 31) Naphthalene                | 8.18  | 128 | 133962  | 2.782  | ng | 99     |
| 32) Benzoic acid               | 7.85  | 122 | 11371   | 9.666  | ng | 93     |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 72737   | 2.307  | ng | 100    |
| 47) 2-Nitroaniline             | 9.46  | 65  | 218     | 3.495  | ng | # 1    |
| 49) Dimethylphthalate          | 9.63  | 163 | 239014  | 7.196  | ng | 99     |
| 53) 2,4-Dinitrophenol          | 10.20 | 184 | 404     | 8.286  | ng | # 1    |
| 55) 4-Nitrophenol              | 9.95  | 139 | 1321    | 4.220  | ng | 85     |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165 | 57723   | 9.450  | ng | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198 | 672     | 9.027  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248 | 19321   | 2.869  | ng | # 1    |
| 70) Phenanthrene               | 11.43 | 178 | 447095  | 12.609 | ng | 99     |
| 71) Anthracene                 | 11.48 | 178 | 109878  | 3.047  | ng | 99     |
| 74) Fluoranthene               | 12.62 | 202 | 480039  | 13.456 | ng | 99     |
| 77) Pyrene                     | 12.84 | 202 | 411095  | 13.051 | ng | 99     |
| 80) Benzo(a)anthracene         | 14.03 | 228 | 197618  | 7.822  | ng | 98     |
| 82) Chrysene                   | 14.07 | 228 | 193265  | 7.589  | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.00 | 276 | 82622   | 3.912  | ng | 97     |
| 87) Benzo(b)fluoranthene       | 15.09 | 252 | 322584  | 13.305 | ng | # 95   |
| 88) Benzo(k)fluoranthene       | 15.09 | 252 | 322584  | 13.925 | ng | 98     |
| 89) Benzo(a)pyrene             | 15.46 | 252 | 160459  | 7.353  | ng | 98     |
| 91) Benzo(g,h,i)perylene       | 17.46 | 276 | 72898   | 4.205  | ng | # 89   |

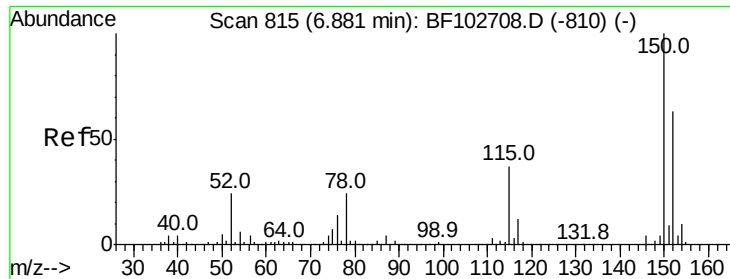
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
ClientSampled :

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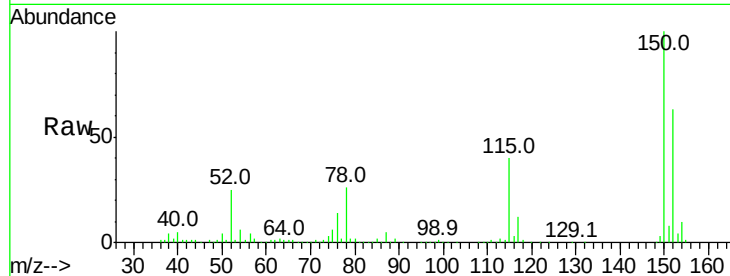


#1

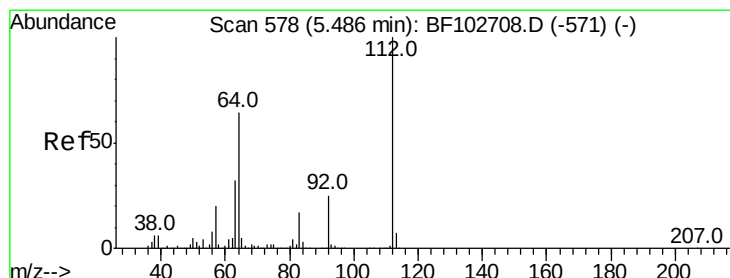
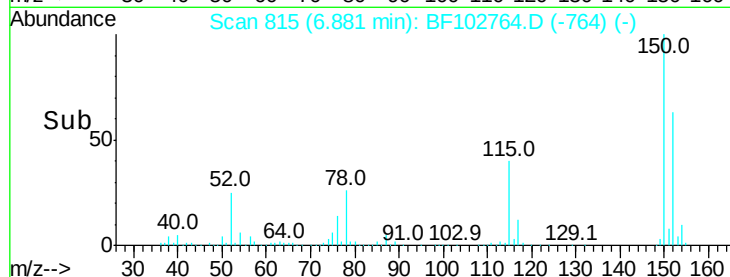
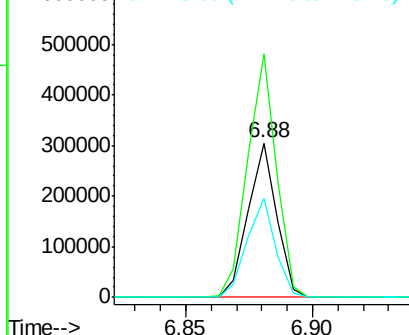
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.0 | 124.6 | 186.8 |
| 115     | 63.9  | 50.1  | 75.1  |



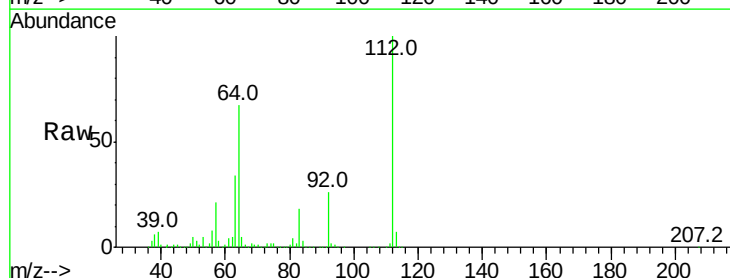
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



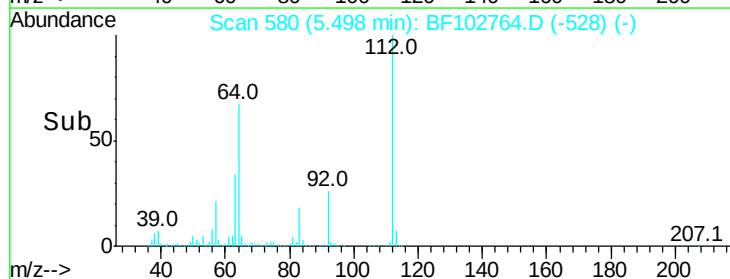
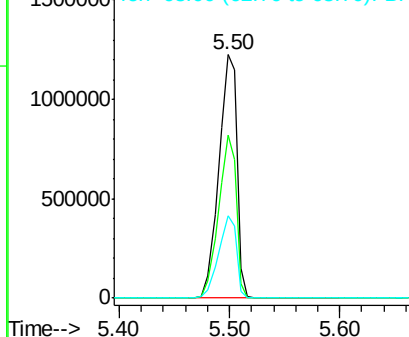
#5

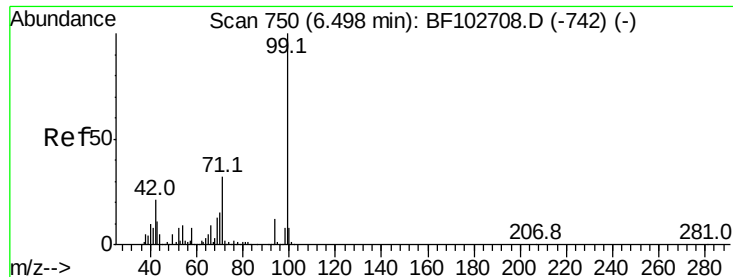
2-Fluorophenol  
Concen: 88.564 ng  
RT: 5.50 min Scan# 580  
Delta R.T. 0.01 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.9  | 47.9  | 71.9  |
| 63      | 33.6  | 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: 88.806 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

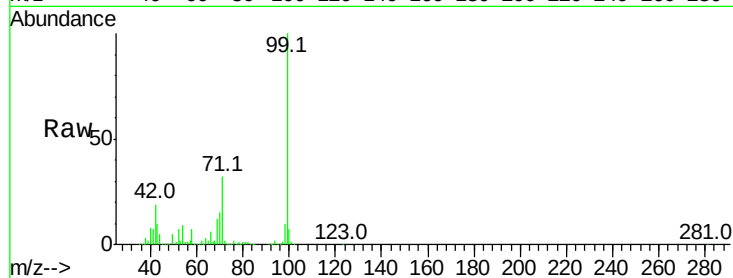
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1682707

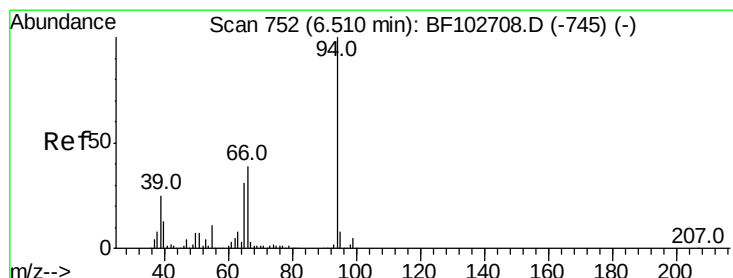
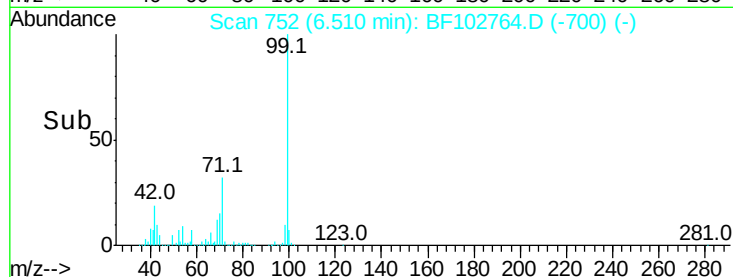
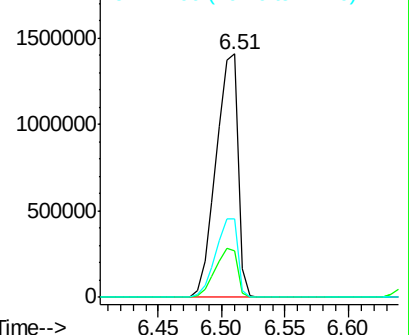
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.0  | 14.5  | 21.7  |
| 71  | 32.2  | 25.4  | 38.0  |



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



#10

Phenol

Concen: 4.335 ng

RT: 6.52 min Scan# 753

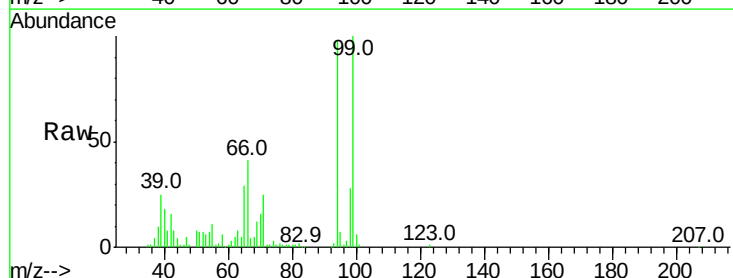
Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Tgt Ion: 94 Resp: 88021

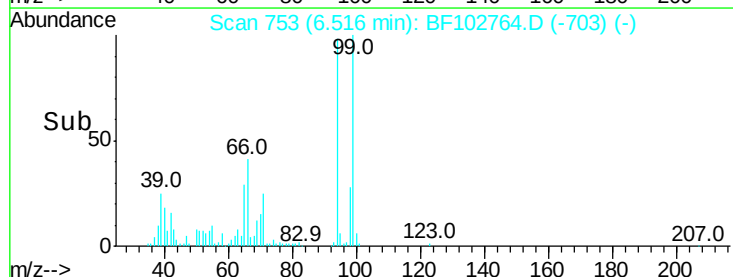
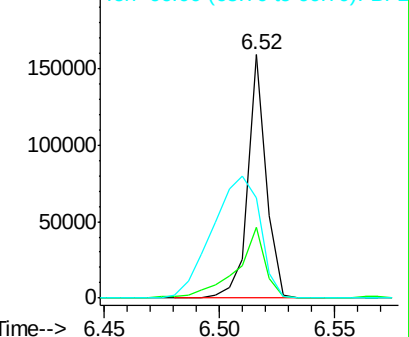
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 29.3  | 7.9   | 47.9  |
| 66  | 41.4  | 16.2  | 56.2  |

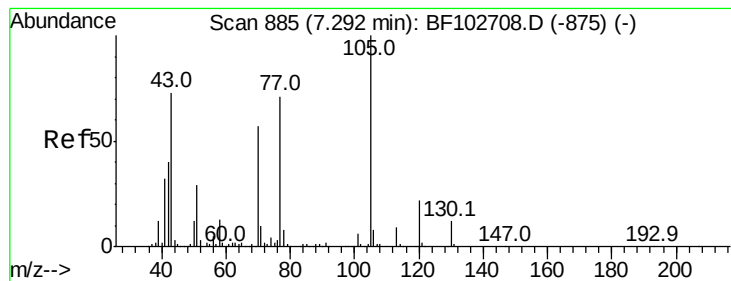


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 11.170 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.15 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 139549

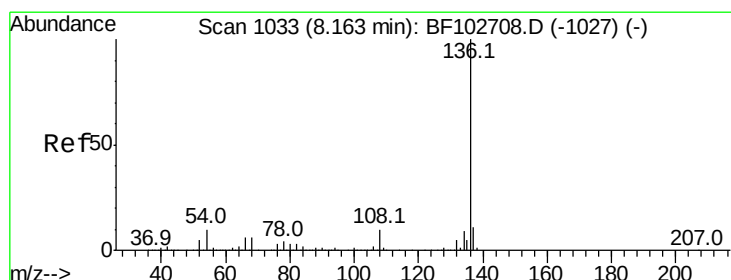
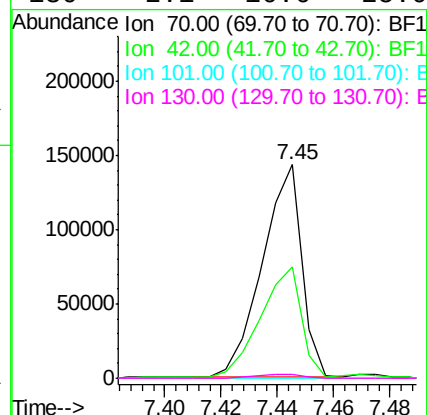
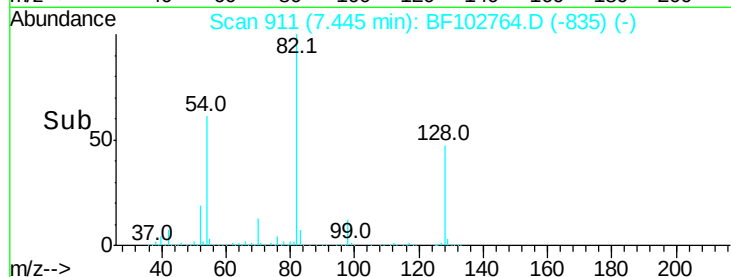
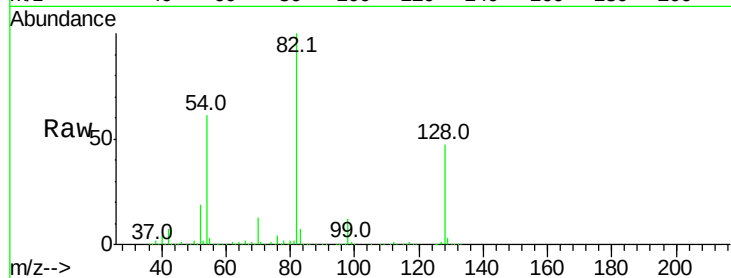
Ion Ratio Lower Upper

70 100

42 51.9 47.5 71.3

101 0.0 7.4 11.2#

130 2.1 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: BF102764.D

Acq: 6 Feb 2018 3:57

Tgt Ion:136 Resp: 985670

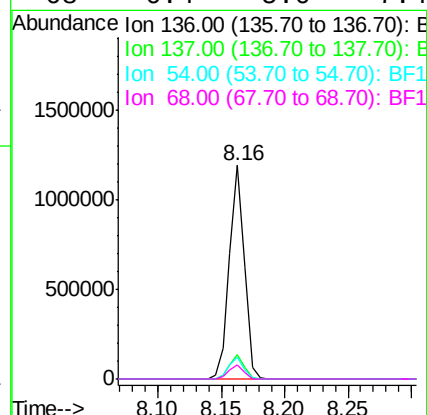
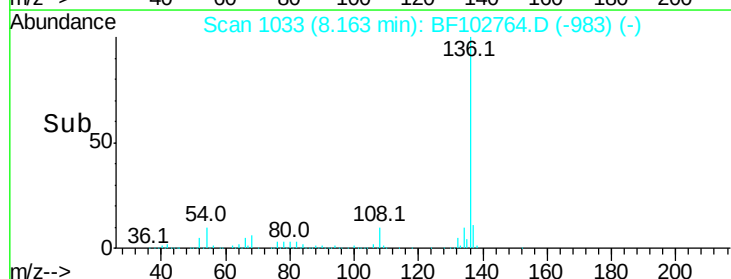
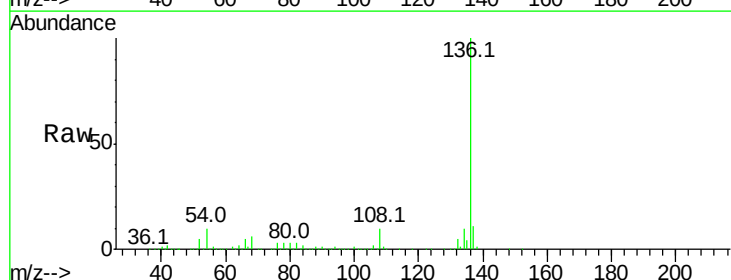
Ion Ratio Lower Upper

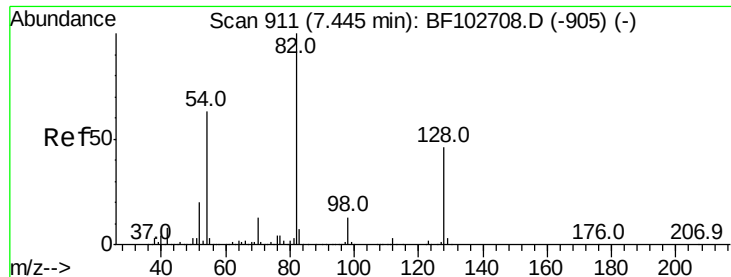
136 100

137 11.2 8.9 13.3

54 10.0 6.6 9.8#

68 6.4 5.0 7.4



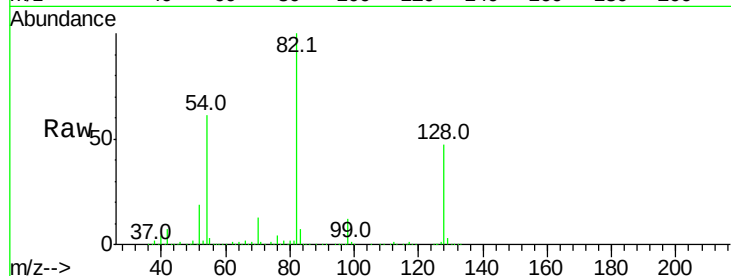


#23  
 Nitrobenzene-d5  
 Concen: 74.328 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

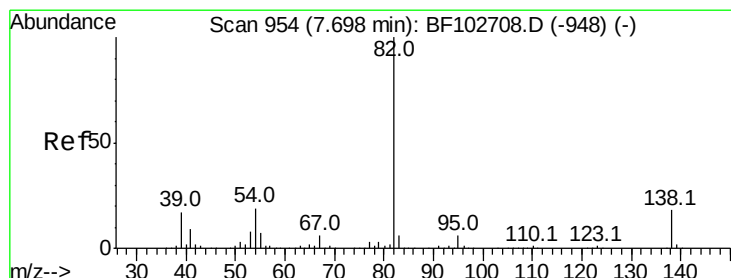
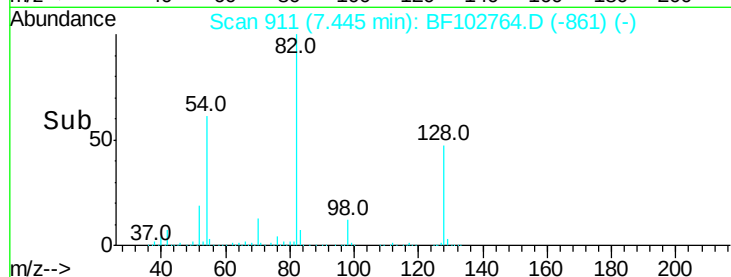
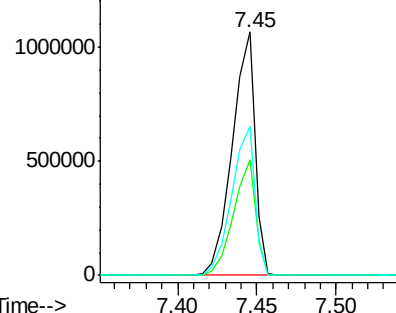
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 1056109  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 47.2  | 36.1  | 54.1  |
| 54  | 61.1  | 41.4  | 62.2  |



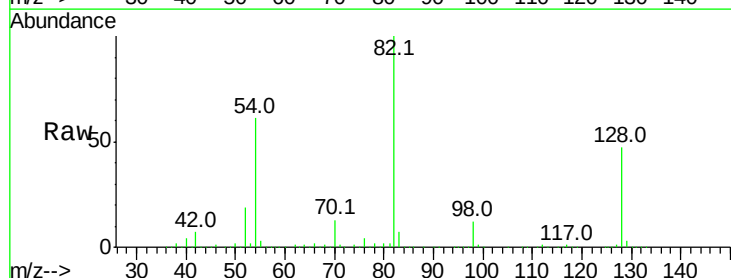
Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1



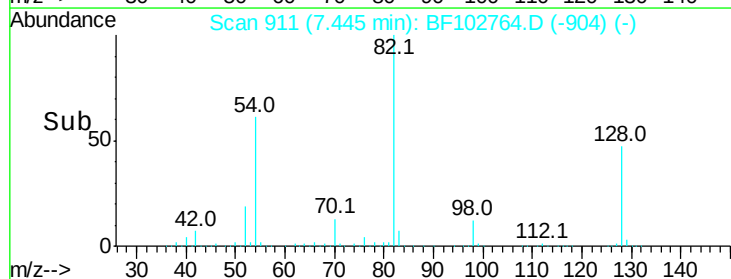
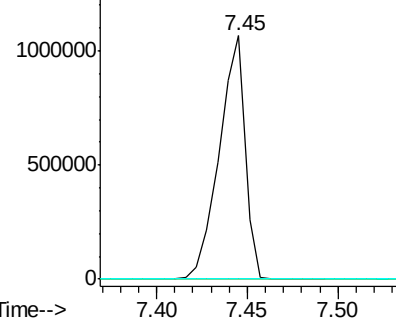
#25  
 Isophorone  
 Concen: 32.295 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.26 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

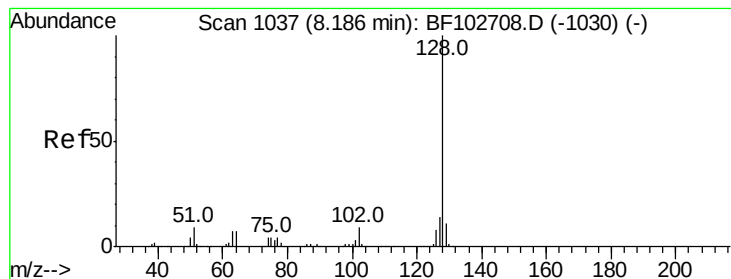
Tgt Ion: 82 Resp: 1056616  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.1   | 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





#31

Naphthalene

Concen: 2.782 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

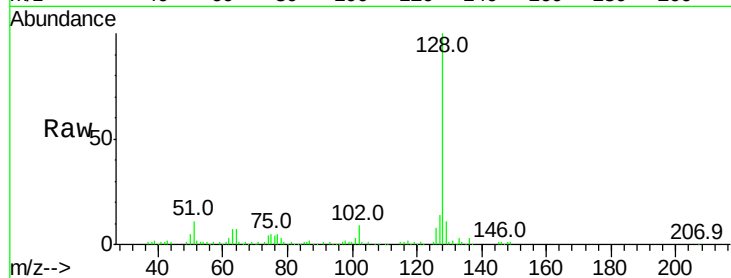
Tot Ion:128 Resp: 133962

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

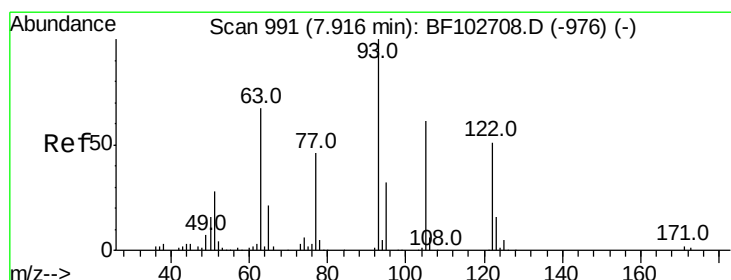
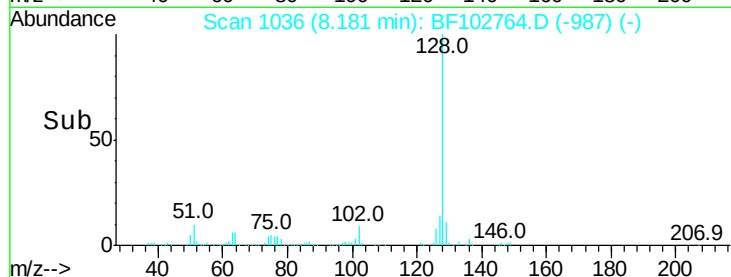
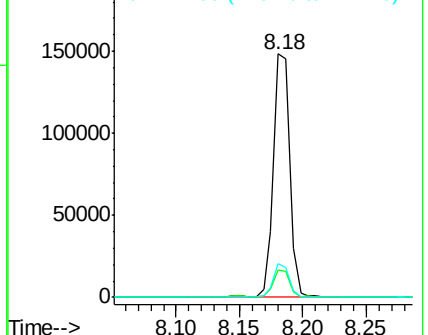
127 13.8 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 9.666 ng

RT: 7.85 min Scan# 979

Delta R.T. -0.09 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

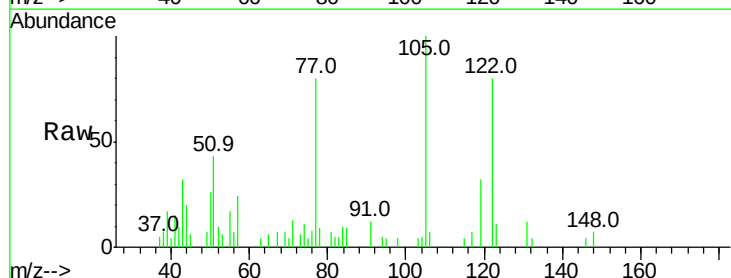
Tgt Ion:122 Resp: 11371

Ion Ratio Lower Upper

122 100

105 125.7 101.1 141.1

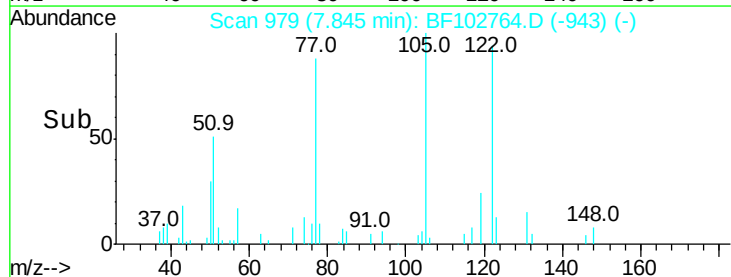
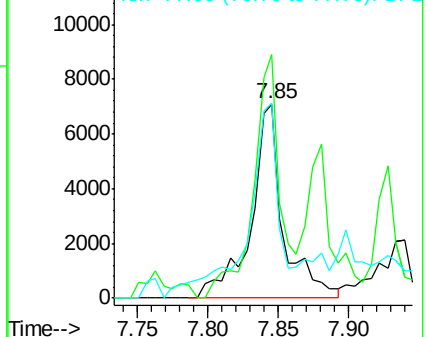
77 100.6 70.7 110.7

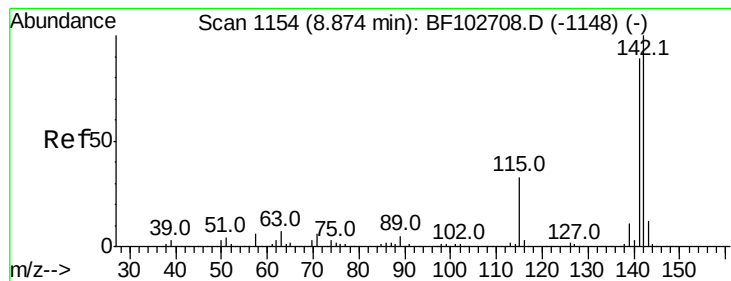


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#37

2-Methylnaphthalene

Concen: 2.307 ng

RT: 8.87 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

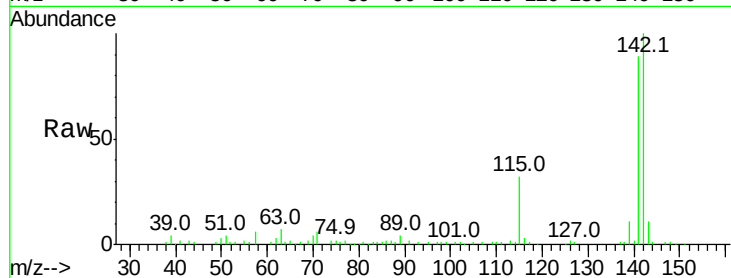
Tot Ion:142 Resp: 72737

Ion Ratio Lower Upper

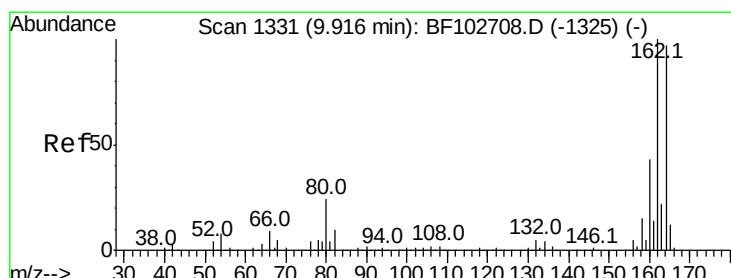
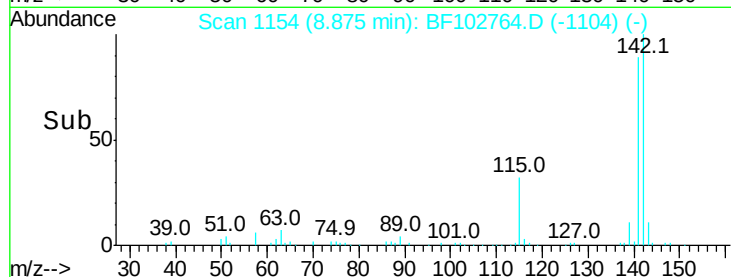
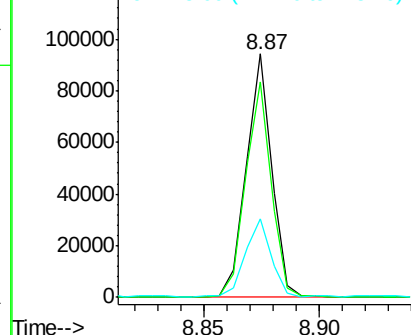
142 100

141 88.5 70.8 106.2

115 32.3 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

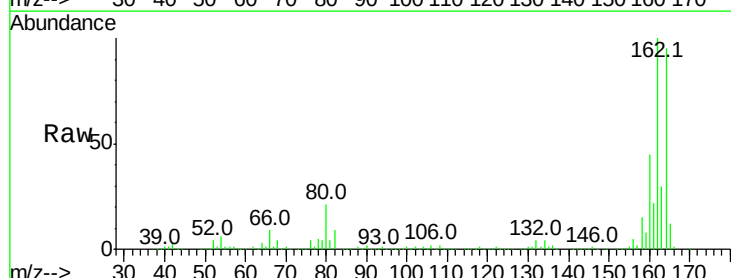
Tgt Ion:164 Resp: 426003

Ion Ratio Lower Upper

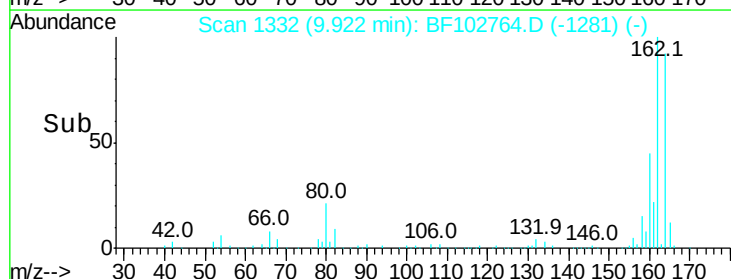
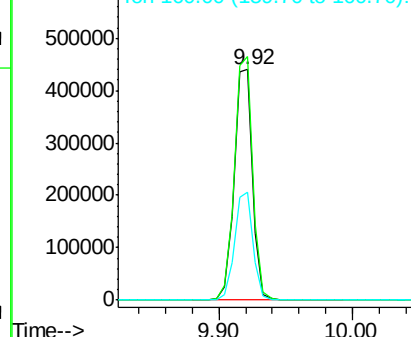
164 100

162 105.7 86.1 129.1

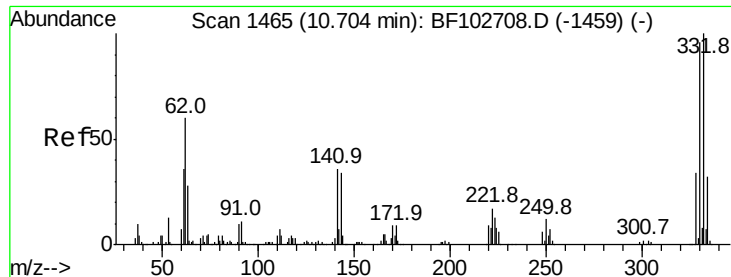
160 47.1 38.3 57.5



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



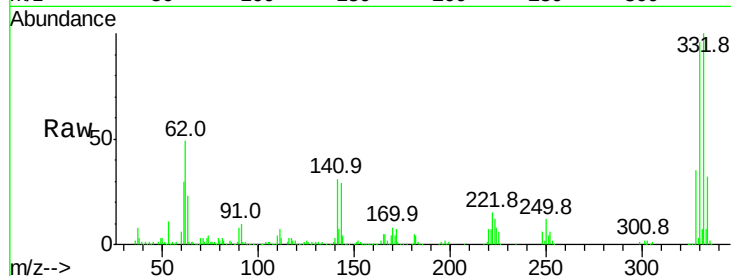




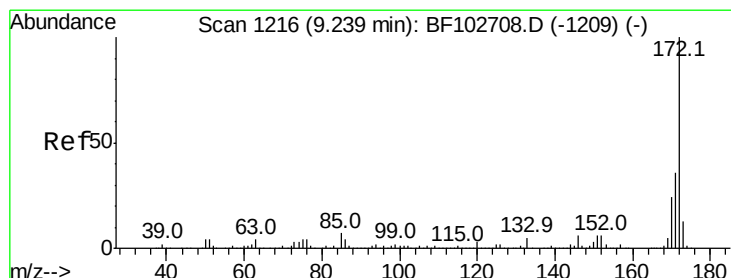
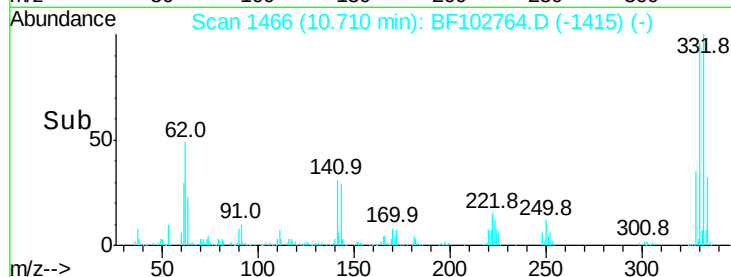
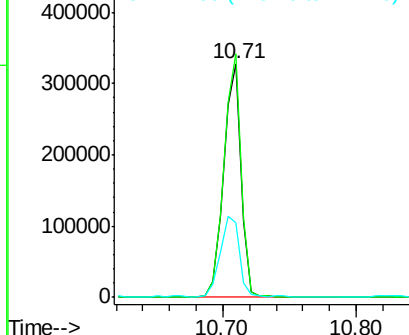
#41  
 2,4,6-Tribromophenol  
 Concen: 88.598 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.00 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 303787  
 Ion Ratio Lower Upper  
 330 100  
 332 103.1 77.0 115.6  
 141 38.3 29.9 44.9

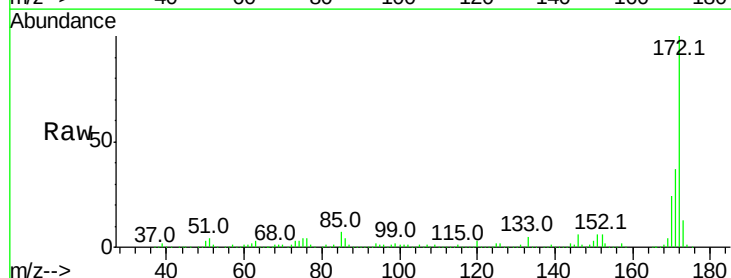


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

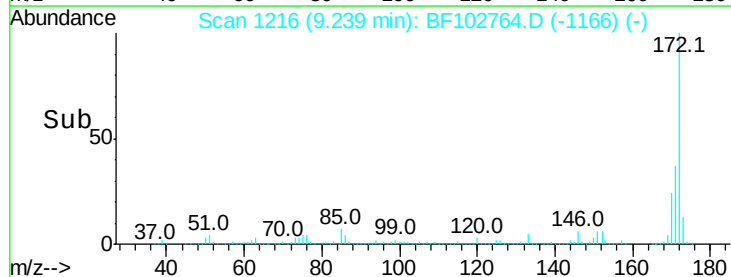
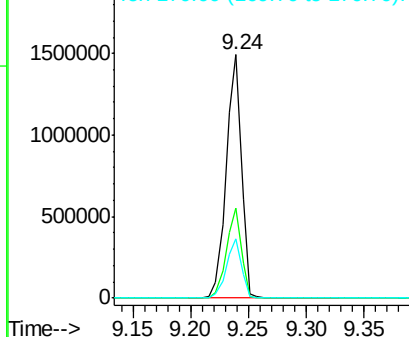


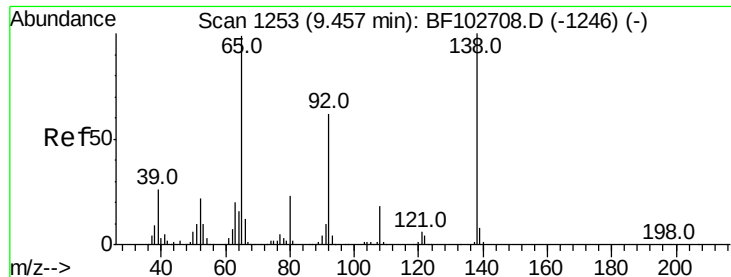
#44  
 2-Fluorobiphenyl  
 Concen: 53.111 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Tgt Ion:172 Resp: 1363508  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 29.7 44.5  
 170 24.3 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: 3.495 ng

RT: 9.46 min Scan# 1254

Delta R.T. -0.00 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampled :

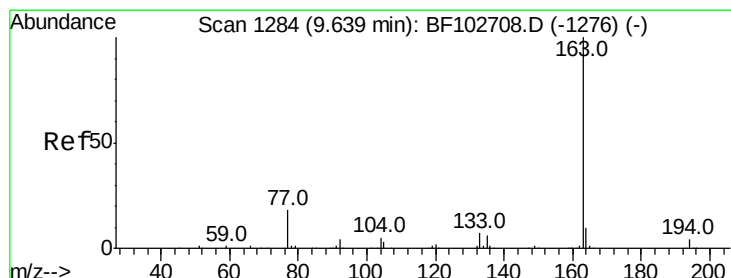
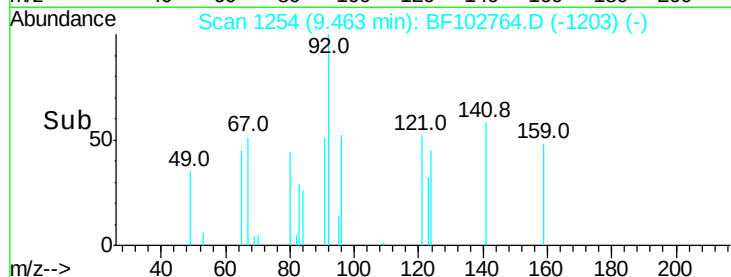
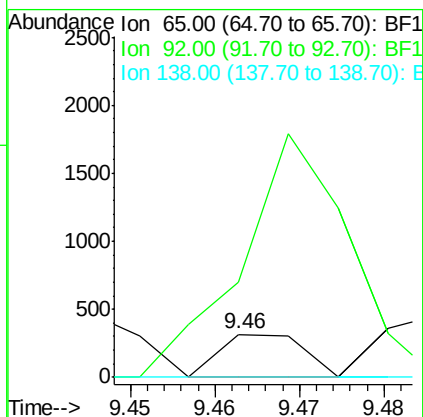
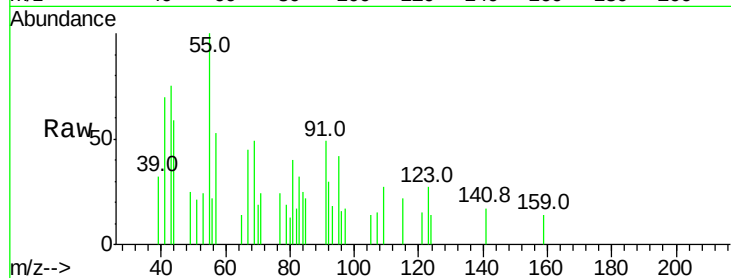
Tot Ion: 65 Resp: 218

Ion Ratio Lower Upper

65 100

92 219.8 55.8 83.6#

138 0.0 91.2 136.8#



#49

Dimethylphthalate

Concen: 7.196 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

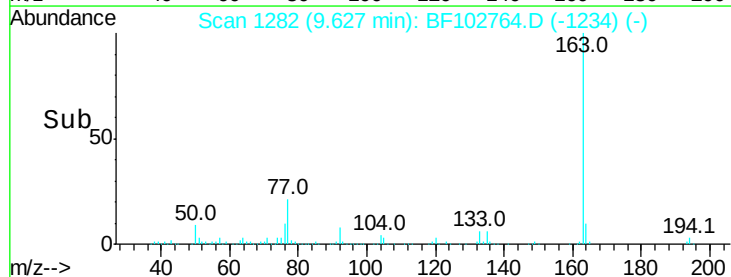
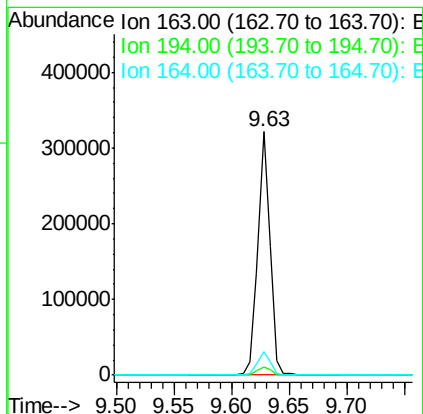
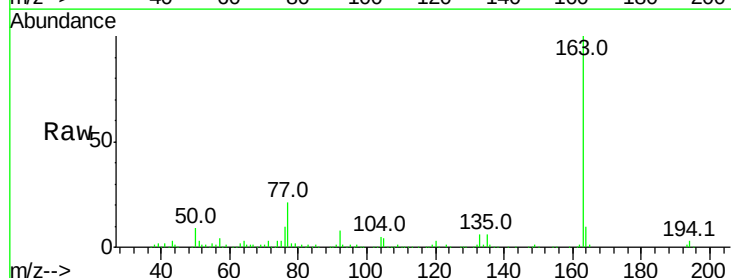
Tgt Ion:163 Resp: 239014

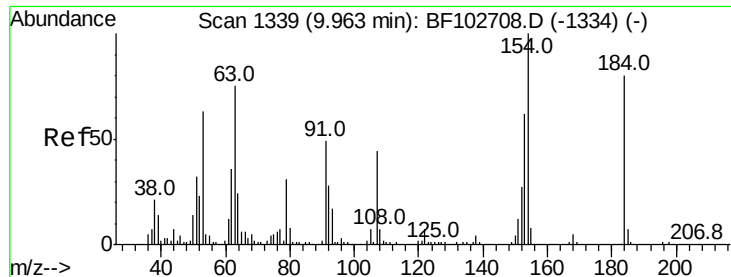
Ion Ratio Lower Upper

163 100

194 3.3 2.7 4.1

164 9.5 8.2 12.2

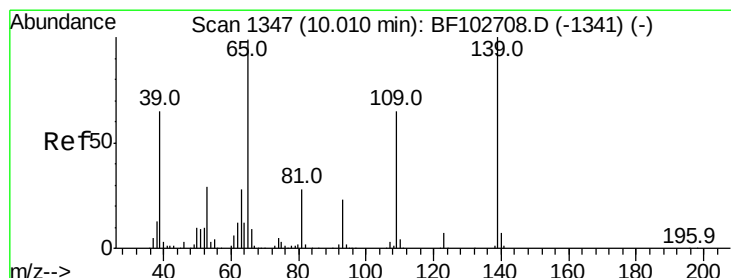
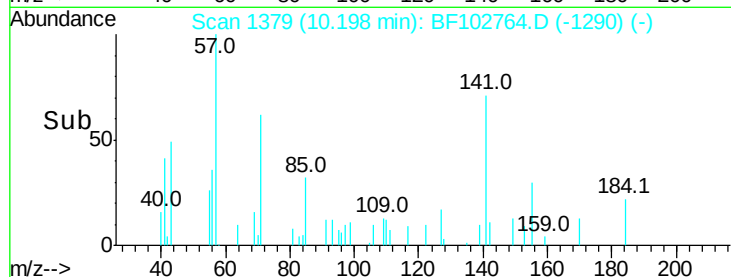
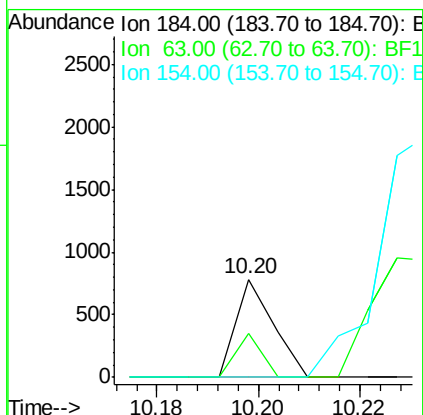
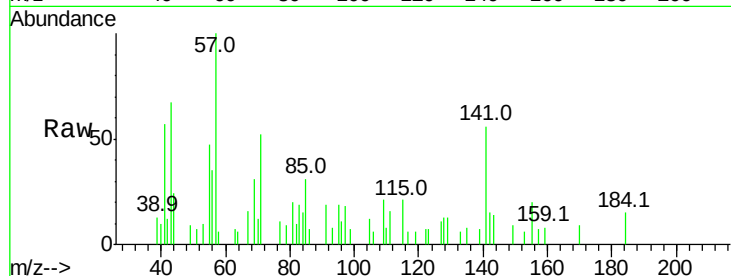




#53  
2,4-Dinitrophenol  
Concen: 8.286 ng  
RT: 10.20 min Scan# 1379  
Delta R.T. 0.22 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

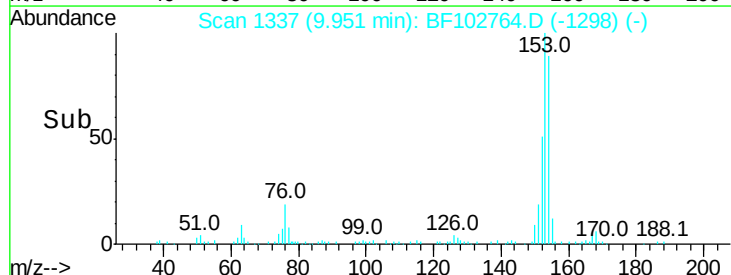
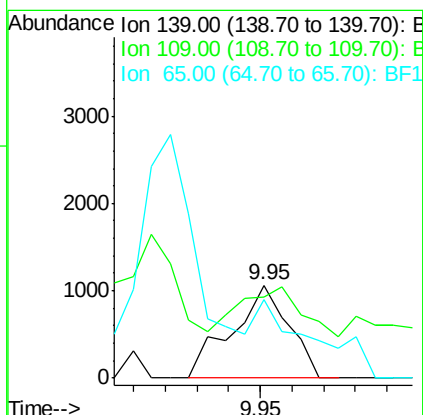
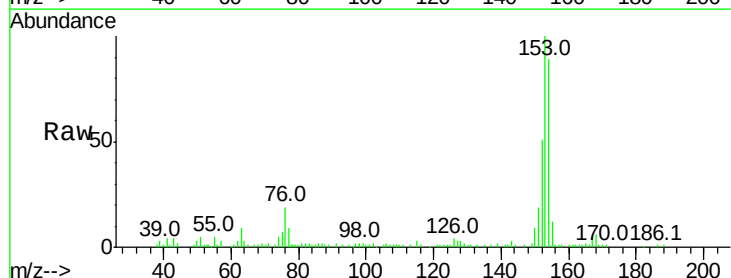
Instrument :  
BNA\_F  
ClientSampled :

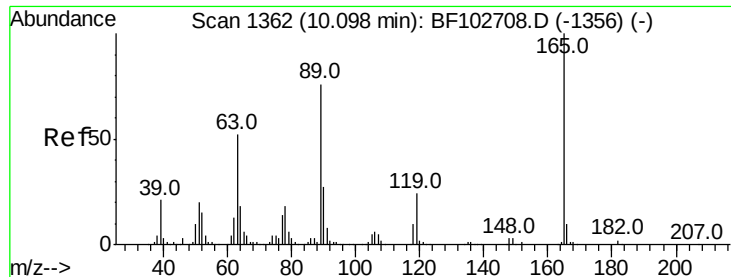
Tot Ion:184 Resp: 404  
Ion Ratio Lower Upper  
184 100  
63 45.5 54.2 81.2#  
154 0.0 184.0 276.0#



#55  
4-Nitrophenol  
Concen: 4.220 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.07 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

Tgt Ion:139 Resp: 1321  
Ion Ratio Lower Upper  
139 100  
109 87.7 48.4 88.4  
65 84.2 72.6 112.6

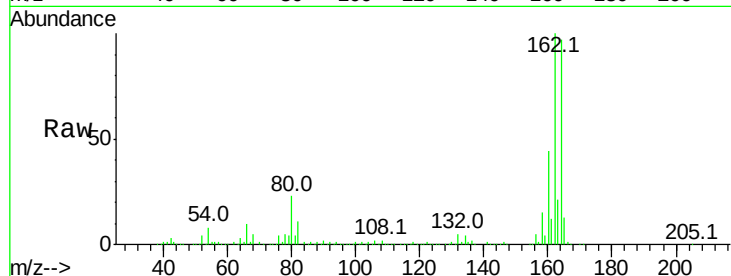




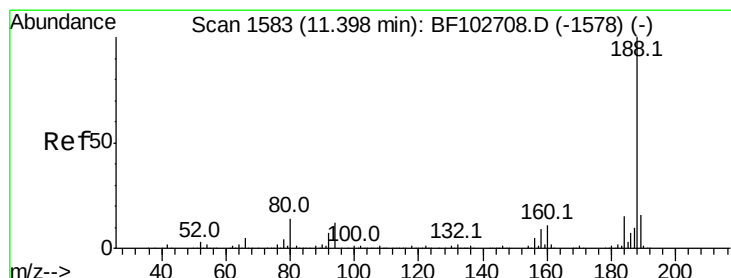
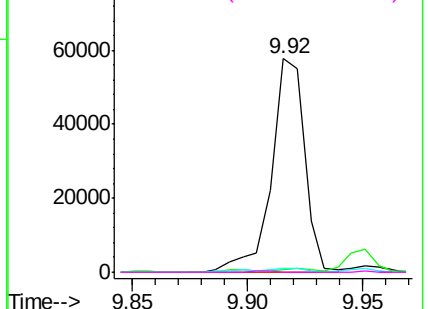
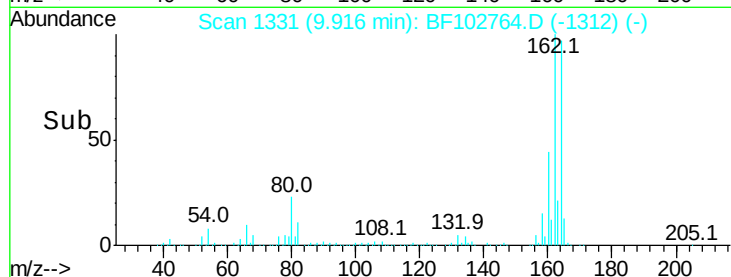
#56  
 2,4-Dinitrotoluene  
 Concen: 9.450 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. -0.19 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 57723  
 Ion Ratio Lower Upper  
 165 100  
 63 1.3 36.4 54.6#  
 89 1.9 57.8 86.6#  
 182 0.0 1.6 2.4#

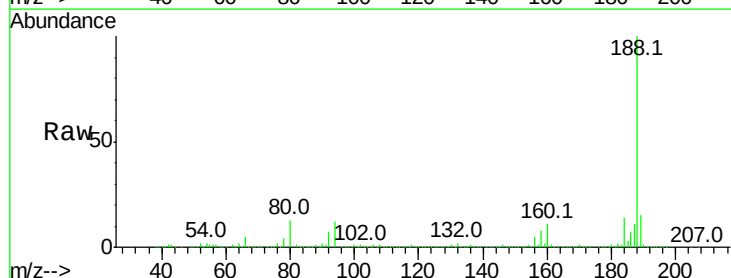


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

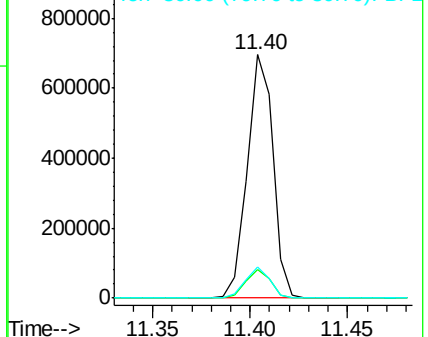
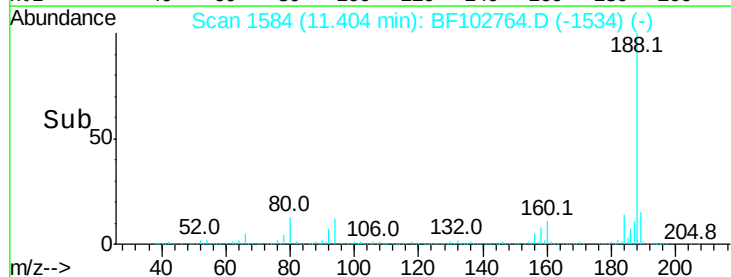


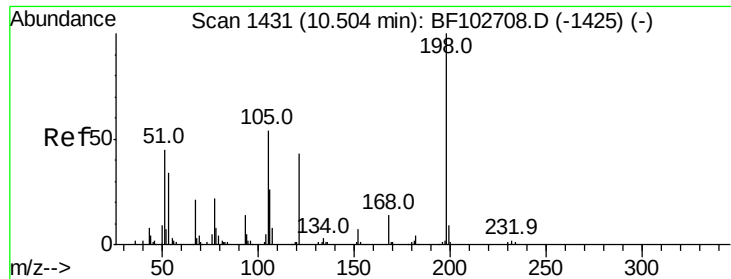
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Tgt Ion:188 Resp: 636657  
 Ion Ratio Lower Upper  
 188 100  
 94 11.8 8.5 12.7  
 80 13.0 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: 9.027 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.19 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

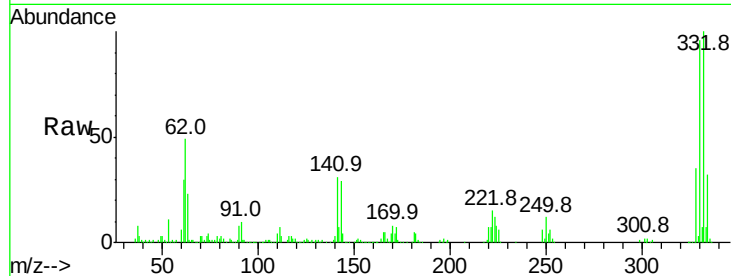
Tot Ion:198 Resp: 672

Ion Ratio Lower Upper

198 100

51 266.8 37.7 77.7#

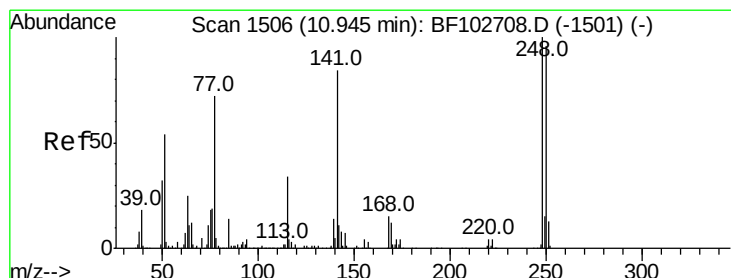
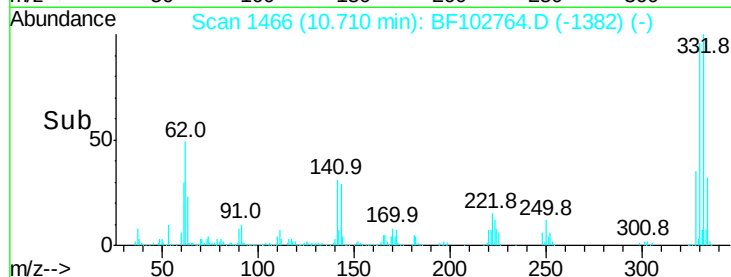
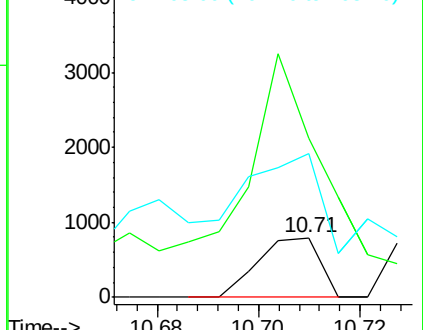
105 241.0 36.3 76.3#



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: 2.869 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.24 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

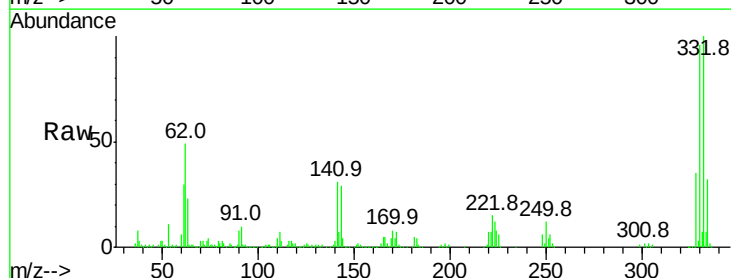
Tgt Ion:248 Resp: 19321

Ion Ratio Lower Upper

248 100

250 223.8 76.9 115.3#

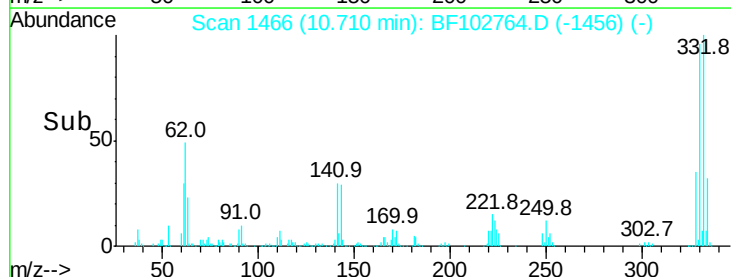
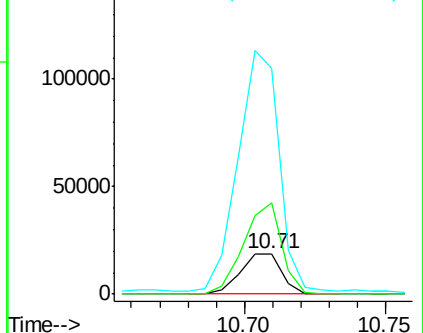
141 555.2 74.4 111.6#

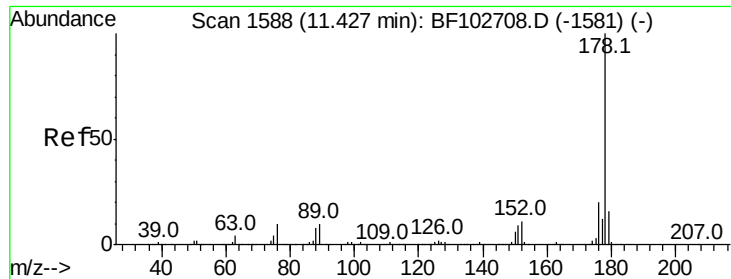


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 12.609 ng

RT: 11.43 min Scan# 1588

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

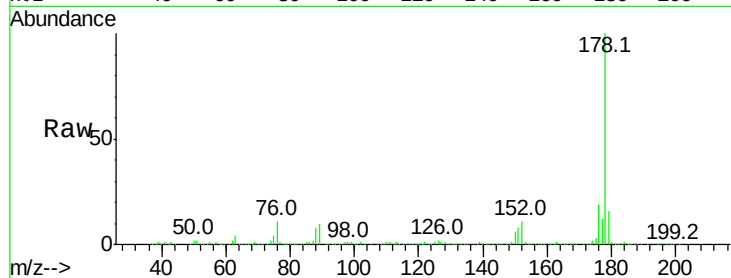
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 447095

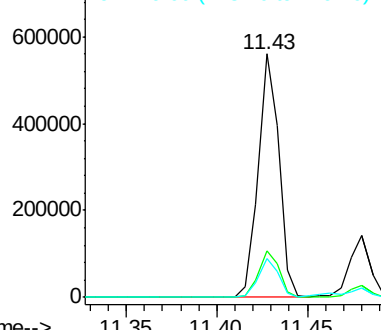
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.2  | 15.8  | 23.8  |
| 179 | 16.0  | 13.0  | 19.6  |



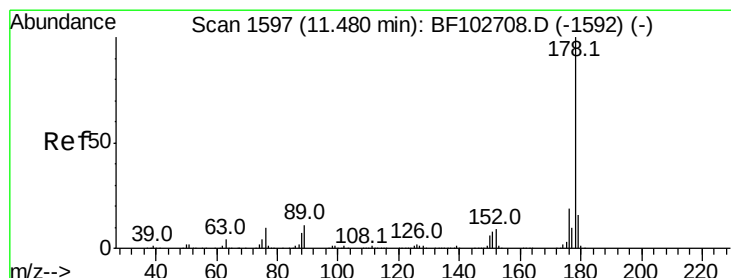
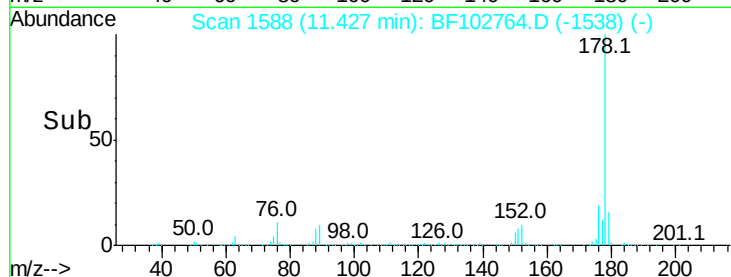
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#71

Anthracene

Concen: 3.047 ng

RT: 11.48 min Scan# 1597

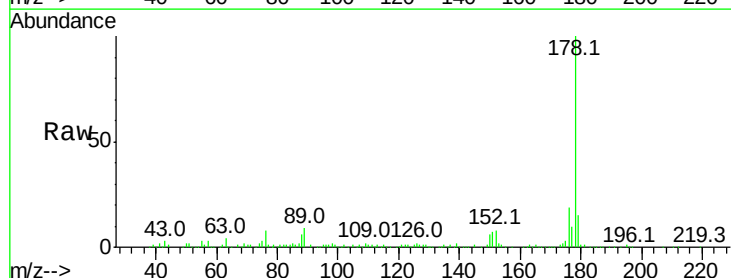
Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Tgt Ion:178 Resp: 109878

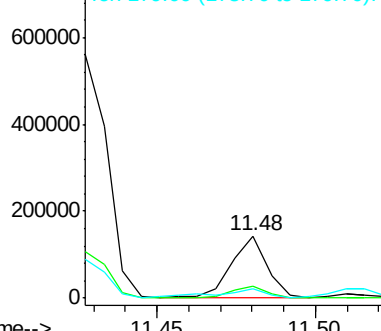
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.6  | 15.4  | 23.2  |
| 179 | 15.3  | 12.6  | 19.0  |



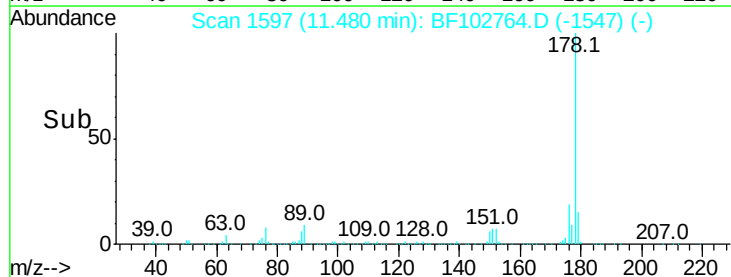
Abundance Ion 178.00 (177.70 to 178.70): E

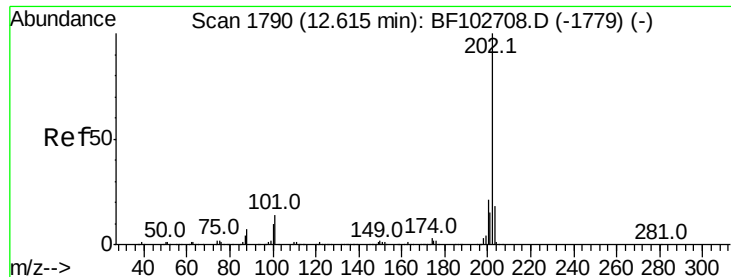
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#74

Fluoranthene

Concen: 13.456 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.01 min

Lab File: BF102764.D

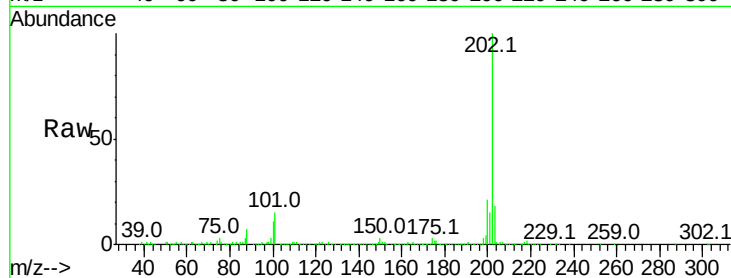
Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

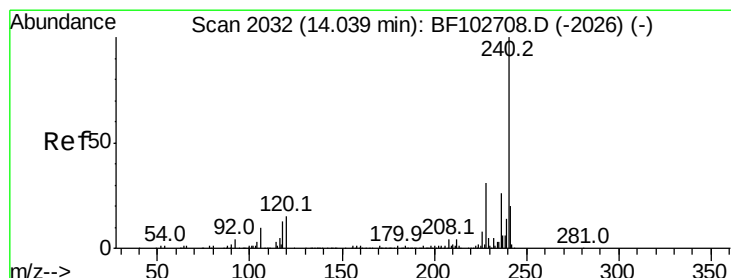
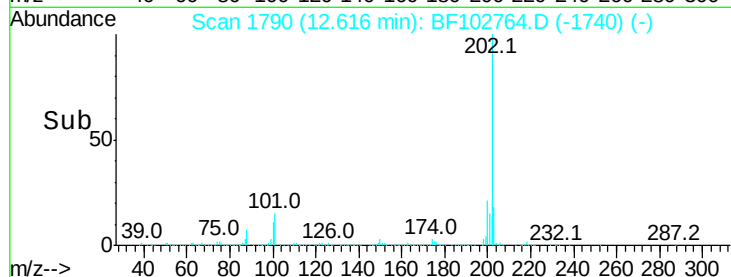
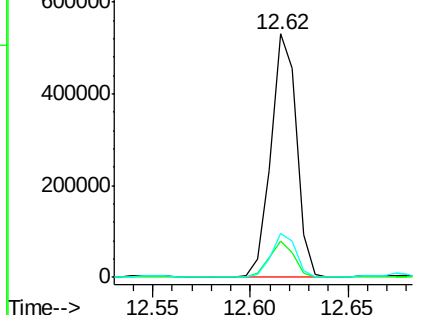
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 480039 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 15.1  | 0.0   | 34.1   |
| 203      | 17.9  | 0.0   | 38.1   |



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

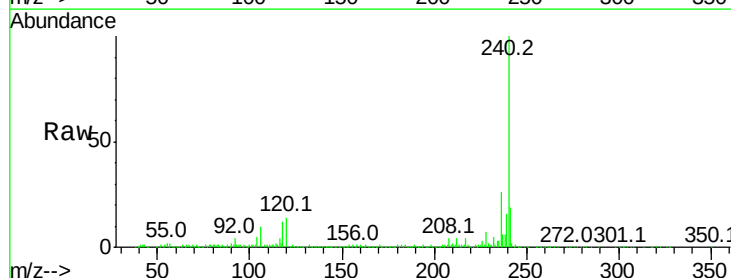
RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

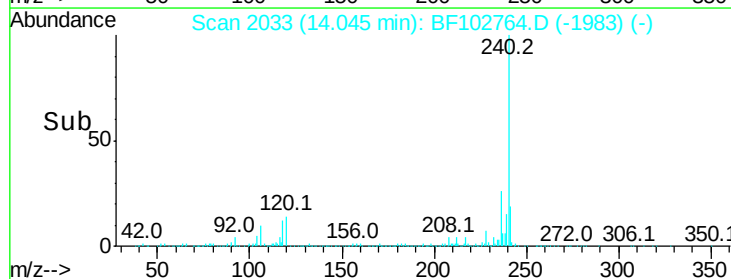
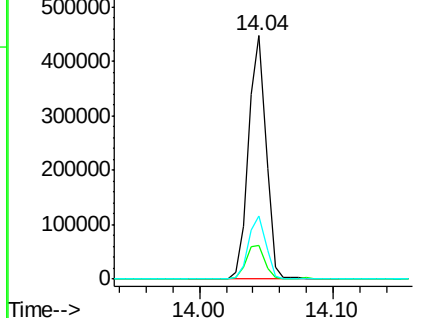
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 401694 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 13.9  | 9.5   | 14.3   |
| 236      | 26.0  | 20.7  | 31.1   |

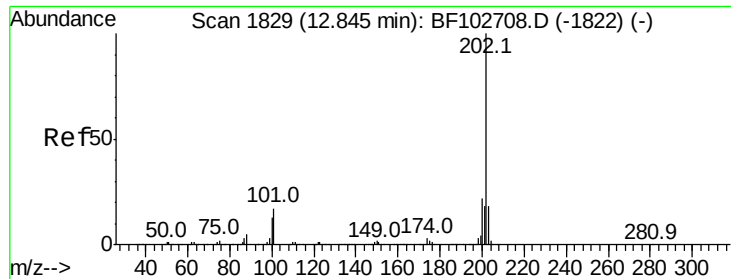


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.051 ng

RT: 12.84 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

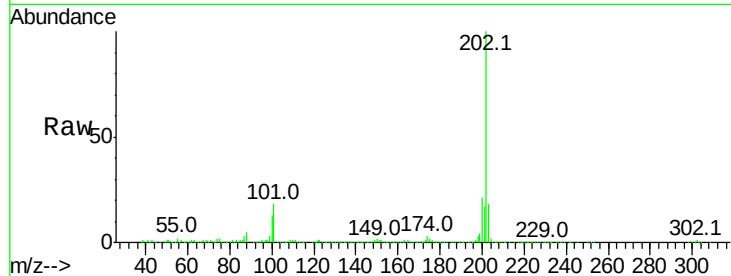
Tot Ion:202 Resp: 411095

Ion Ratio Lower Upper

202 100

200 20.8 17.4 26.2

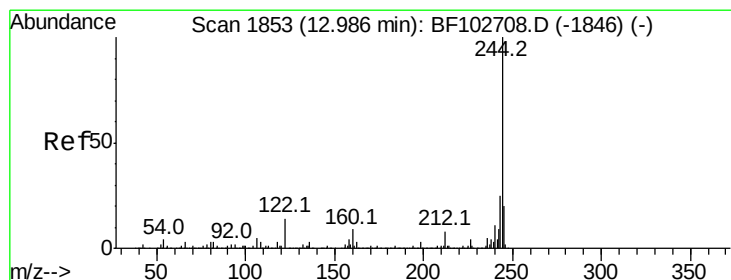
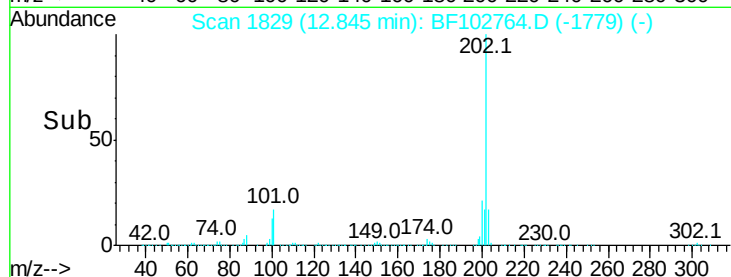
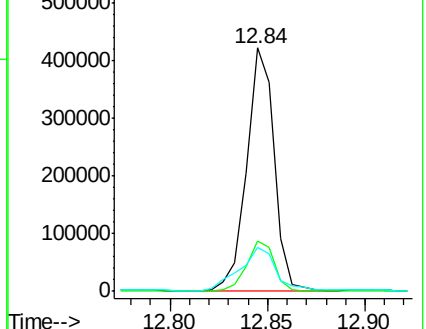
203 17.9 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 52.524 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

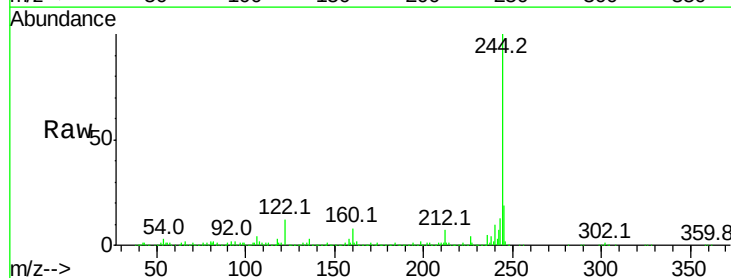
Tgt Ion:244 Resp: 891071

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

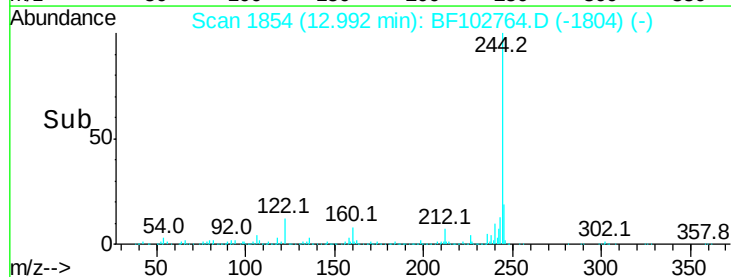
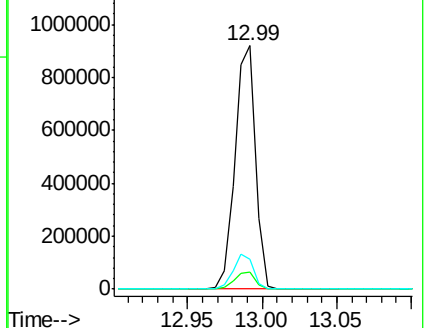
122 12.4 11.0 16.4



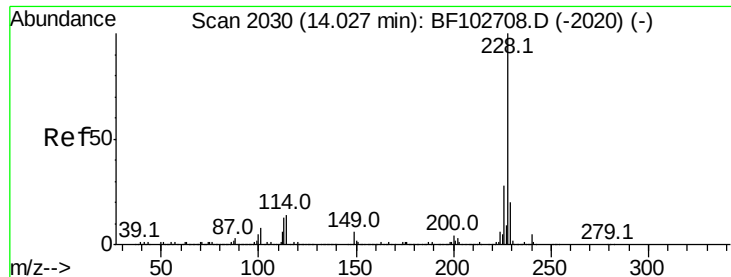
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



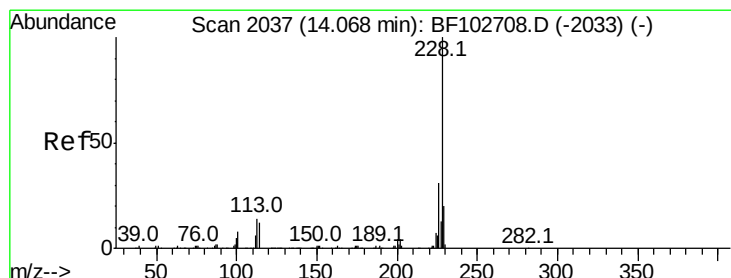
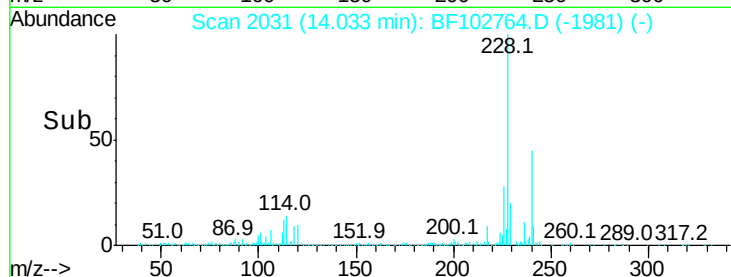
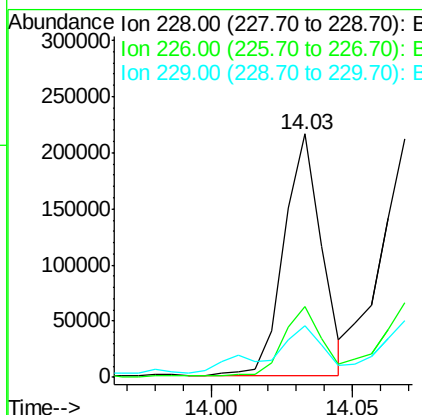
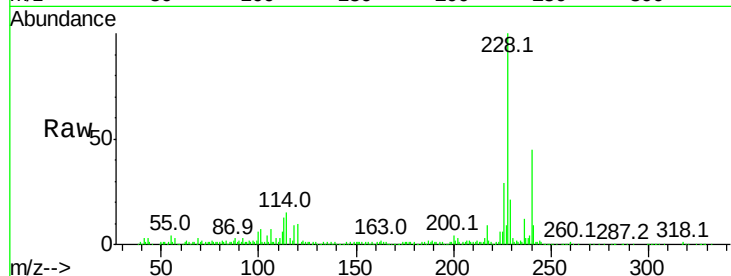




#80  
Benzo(a)anthracene  
Concen: 7.822 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.01 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

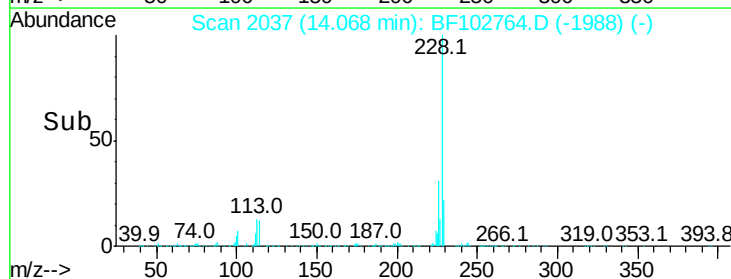
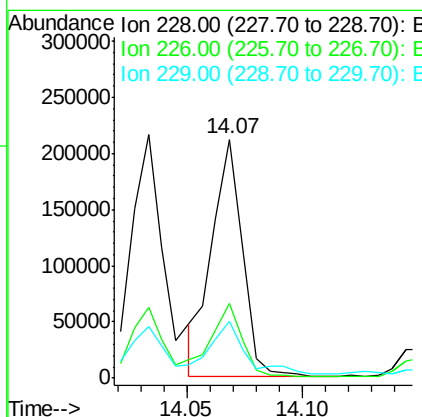
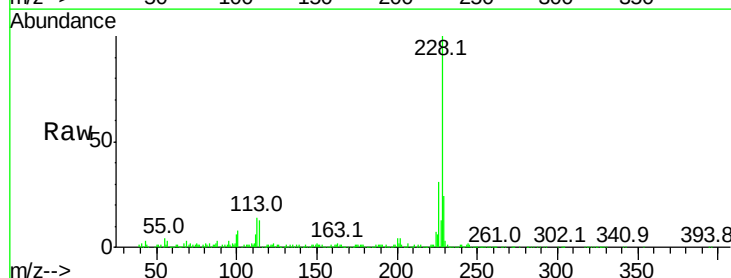
Instrument :  
BNA\_F  
ClientSampled :

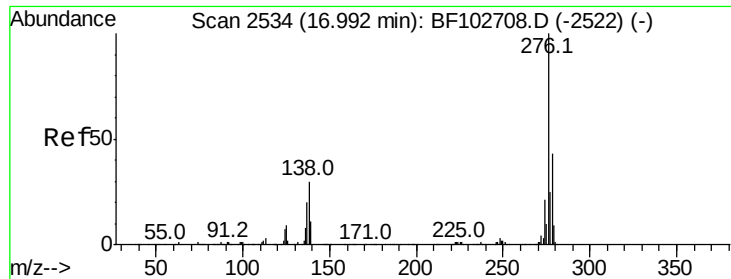
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 22.6  | 33.8  |
| 229     | 21.4  | 15.8  | 23.6  |



#82  
Chrysene  
Concen: 7.589 ng  
RT: 14.07 min Scan# 2037  
Delta R.T. -0.01 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 25.0  | 37.6  |
| 229     | 23.6  | 16.2  | 24.4  |

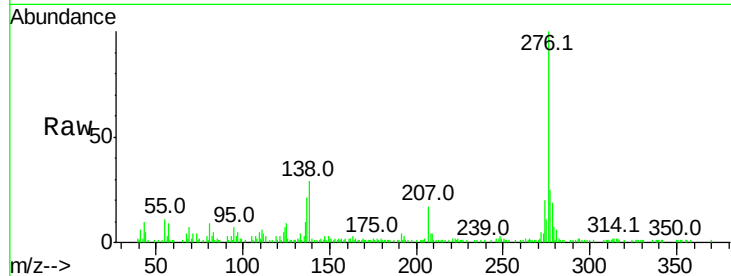




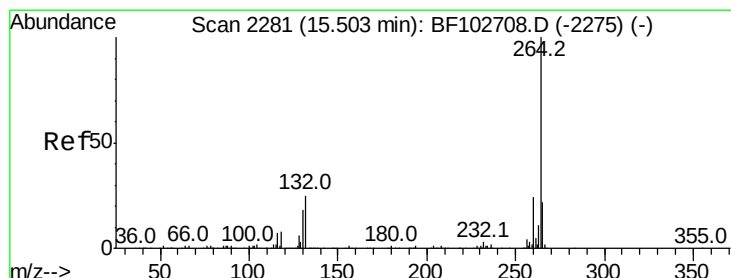
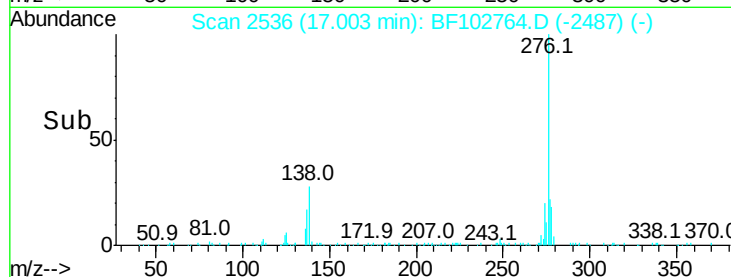
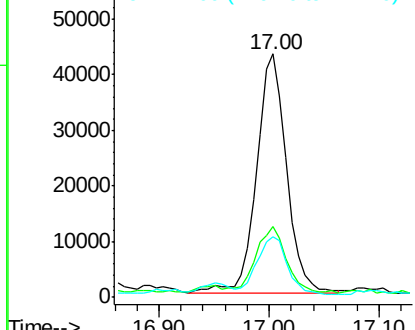
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.912 ng  
 RT: 17.00 min Scan# 2536  
 Delta R.T. -0.01 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:276 Resp: 82622  
 Ion Ratio Lower Upper  
 276 100  
 138 28.1 25.0 37.6  
 277 24.8 20.1 30.1

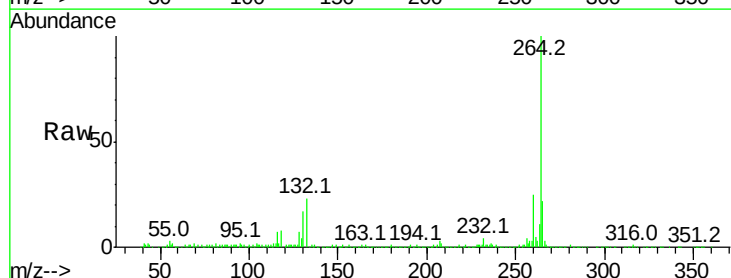


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

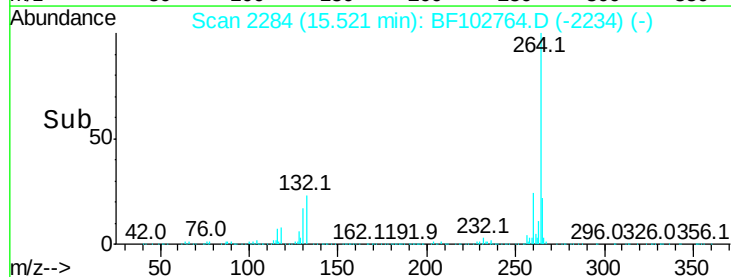
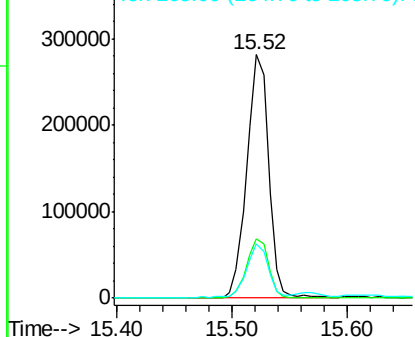


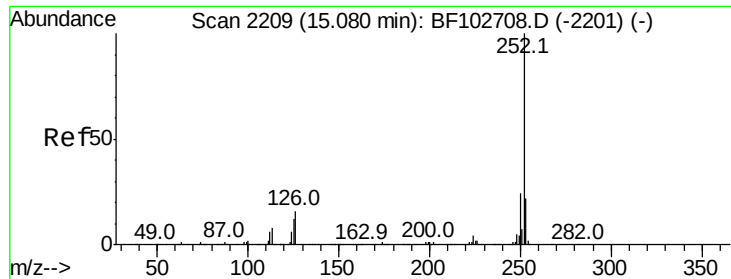
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.52 min Scan# 2284  
 Delta R.T. -0.01 min  
 Lab File: BF102764.D  
 Acq: 6 Feb 2018 3:57

Tgt Ion:264 Resp: 373959  
 Ion Ratio Lower Upper  
 264 100  
 260 24.6 19.2 28.8  
 265 22.5 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

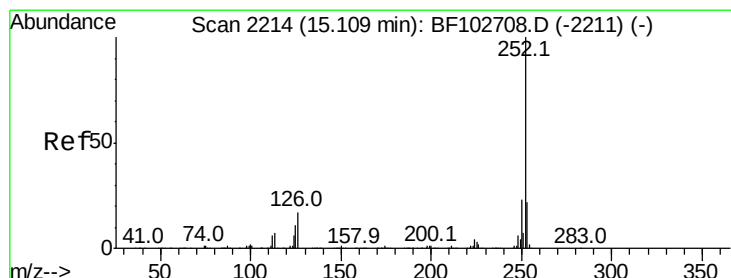
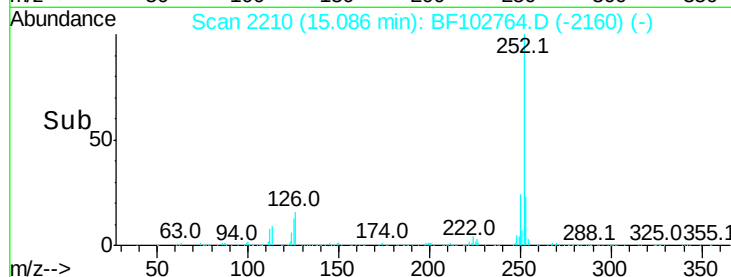
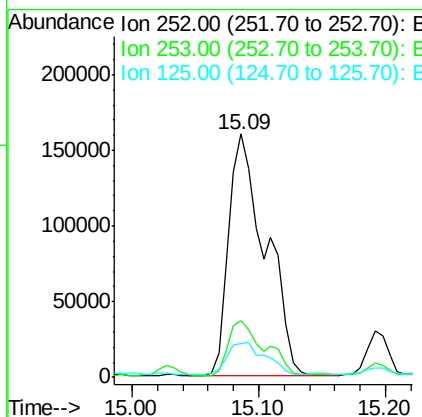
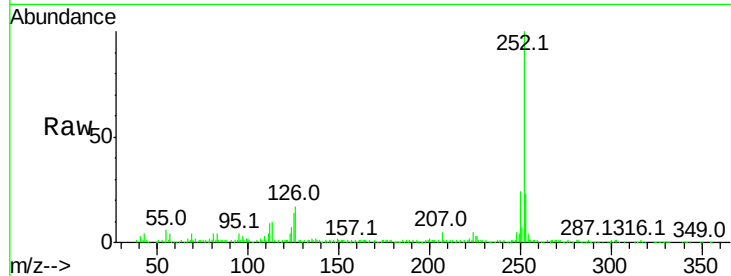




#87  
Benzo(b)fluoranthene  
Concen: 13.305 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.01 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

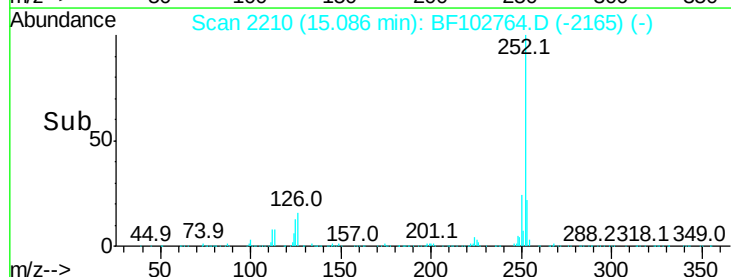
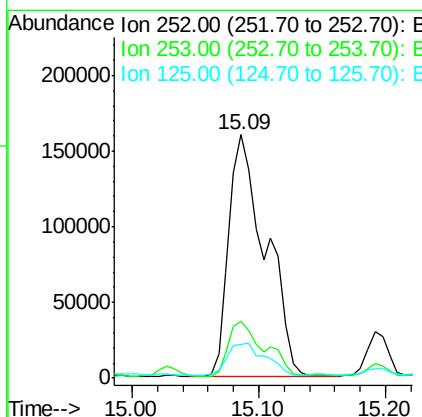
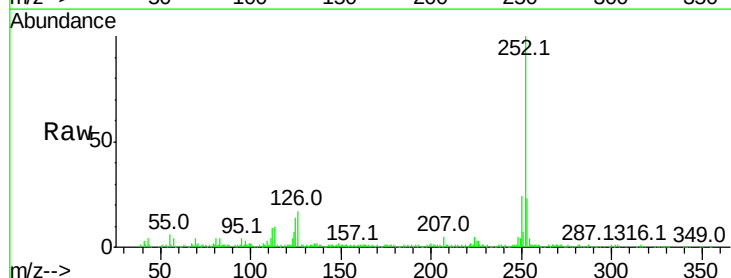
Instrument :  
BNA\_F  
ClientSampleId :

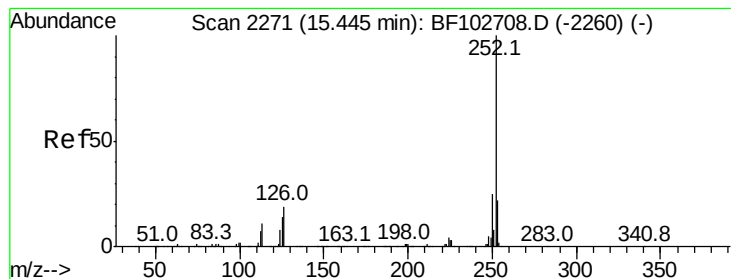
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.0  | 25.6  |
| 125     | 13.9  | 9.0   | 13.6# |



#88  
Benzo(k)fluoranthene  
Concen: 13.925 ng  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.04 min  
Lab File: BF102764.D  
Acq: 6 Feb 2018 3:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.9  | 26.9  |
| 125     | 13.9  | 10.2  | 15.2  |





#89

Benzo(a)pyrene

Concen: 7.353 ng

RT: 15.46 min Scan# 2273

Delta R.T. -0.01 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

Instrument :

BNA\_F

ClientSampleId :

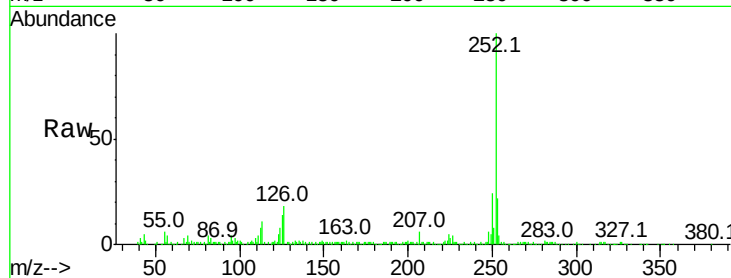
Tot Ion:252 Resp: 160459

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

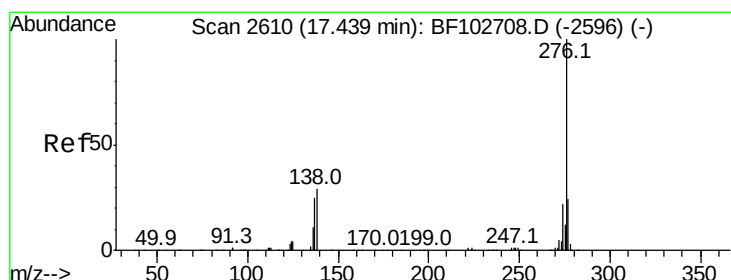
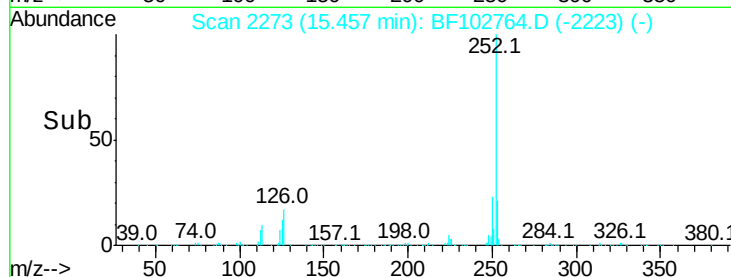
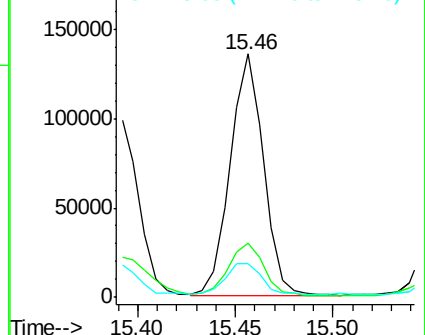
125 13.8 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 4.205 ng

RT: 17.46 min Scan# 2613

Delta R.T. -0.02 min

Lab File: BF102764.D

Acq: 6 Feb 2018 3:57

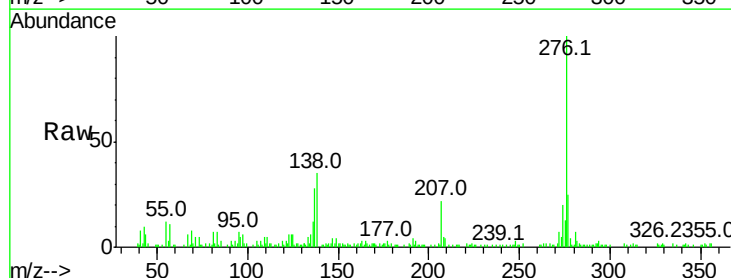
Tgt Ion:276 Resp: 72898

Ion Ratio Lower Upper

276 100

277 25.0 17.9 26.9

138 35.4 21.8 32.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

