

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021218\  
 Data File : BF102908.D  
 Acq On : 12 Feb 2018 9:41  
 Operator : SJ/JU  
 Sample : J1404-01RE  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 12 11:43:29 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 | 6.89  | 152  | 202189   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 799193   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 346457   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 501068   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 332273   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.54 | 264  | 363789   | 20.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.51  | 112  | 1320829  | 99.21 | ng    | 0.02     |
| 7) Phenol-d6                | 6.52  | 99   | 1545544  | 96.41 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 1001924  | 86.97 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.72 | 330  | 248249   | 89.02 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.24  | 172  | 1308343  | 62.66 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.00 | 244  | 806307   | 57.46 | ng    | 0.00     |

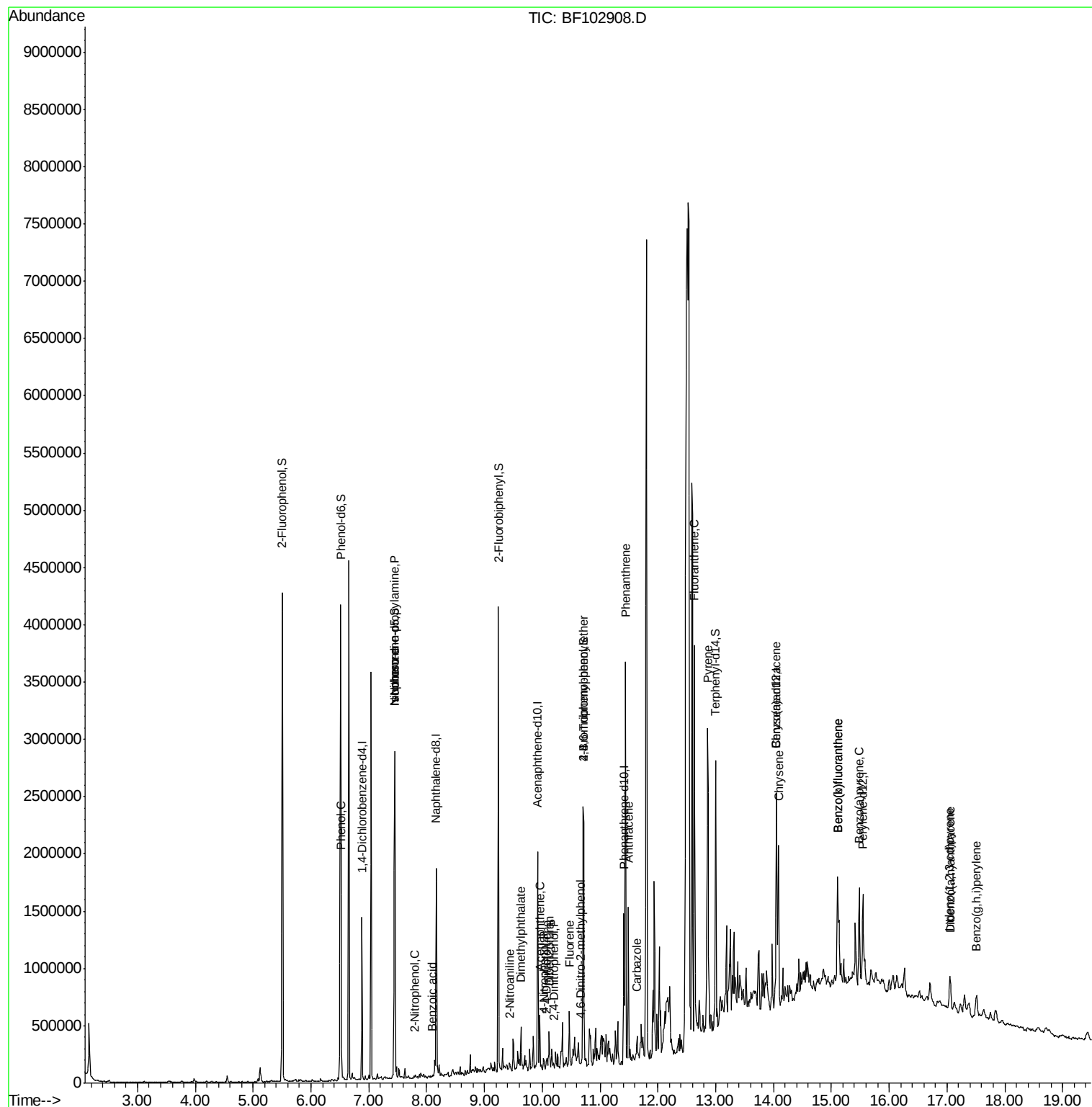
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.53  | 94   | 57815    | 3.365  | ng    | 98     |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 136117   | 12.879 | ng    | # 83   |
| 25) Isophorone                 | 7.45  | 82   | 999109   | 37.662 | ng    | # 64   |
| 26) 2-Nitrophenol              | 7.79  | 139  | 109      | 8.682  | ng    | # 1    |
| 32) Benzoic acid               | 8.09  | 122  | 298      | 8.579  | ng    | 91     |
| 47) 2-Nitroaniline             | 9.43  | 65   | 2137     | 3.752  | ng    | # 46   |
| 49) Dimethylphthalate          | 9.63  | 163  | 103768   | 3.841  | ng    | 100    |
| 51) Acenaphthene               | 9.95  | 154  | 87789    | 4.114  | ng    | 99     |
| 53) 2,4-Dinitrophenol          | 10.21 | 184  | 137      | 8.069  | ng    | # 26   |
| 54) Dibenzofuran               | 10.13 | 168  | 76056    | 2.529  | ng    | 98     |
| 55) 4-Nitrophenol              | 10.02 | 139  | 2353     | 4.454  | ng    | # 66   |
| 56) 2,4-Dinitrotoluene         | 10.07 | 165  | 2682     | 3.440  | ng    | # 58   |
| 57) Fluorene                   | 10.47 | 166  | 100887   | 4.611  | ng    | 99     |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 148      | 8.858  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 16875    | 3.184  | ng    | # 1    |
| 70) Phenanthrene               | 11.44 | 178  | 1236132  | 44.296 | ng    | 100    |
| 71) Anthracene                 | 11.49 | 178  | 473302   | 16.675 | ng    | 100    |
| 72) Carbazole                  | 11.64 | 167  | 56399    | 2.028  | ng    | 97     |
| 74) Fluoranthene               | 12.63 | 202  | 1367286  | 48.698 | ng    | 98     |
| 77) Pvrene                     | 12.86 | 202  | 1230082  | 47.210 | ng    | 100    |
| 80) Benzo(a)anthracene         | 14.04 | 228  | 618340   | 29.590 | ng    | 98     |
| 82) Chrysene                   | 14.09 | 228  | 545901   | 25.915 | ng    | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.05 | 276  | 186543   | 10.677 | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 15.11 | 252  | 798920   | 33.873 | ng    | # 94   |
| 88) Benzo(k)fluoranthene       | 15.11 | 252  | 798920   | 35.451 | ng    | # 97   |
| 89) Benzo(a)pyrene             | 15.49 | 252  | 428997   | 20.207 | ng    | # 96   |
| 90) Dibenzo(a,h)anthracene     | 17.06 | 278  | 52630    | 3.054  | ng    | # 82   |
| 91) Benzo(g,h,i)perylene       | 17.51 | 276  | 171217   | 10.151 | ng    | 94     |

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

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Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Feb 12 11:43:29 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



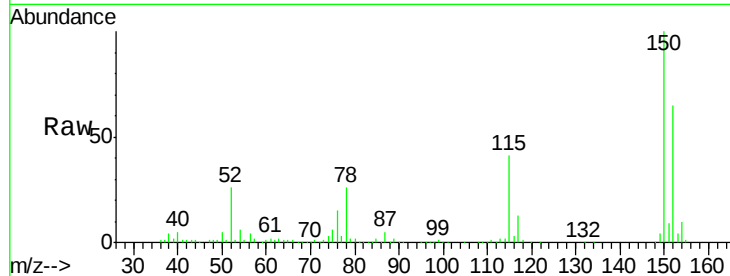


#1

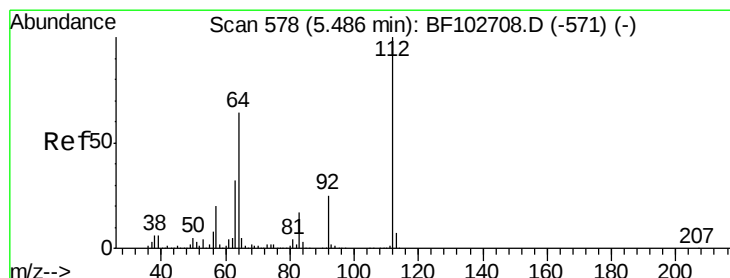
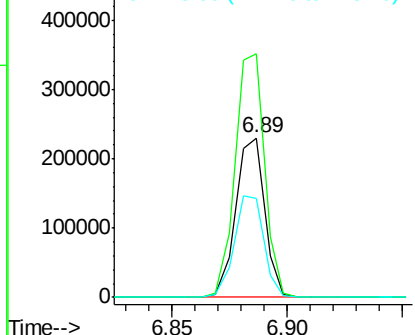
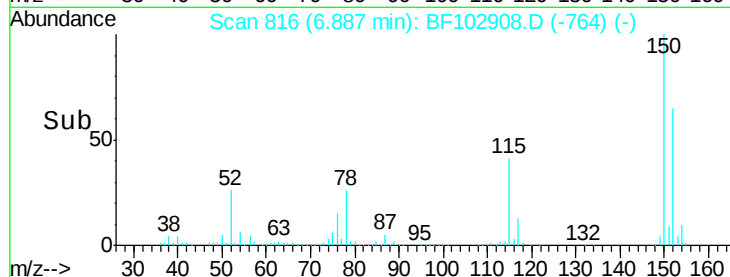
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.01 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 202189  
Ion Ratio Lower Upper  
152 100  
150 153.0 124.6 186.8  
115 62.0 50.1 75.1



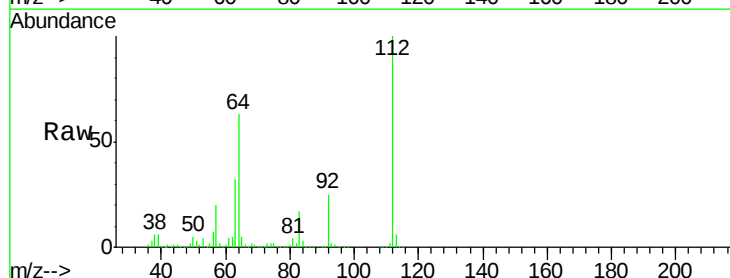
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



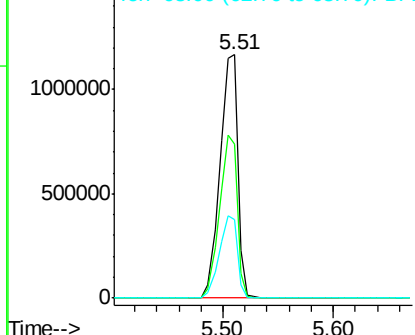
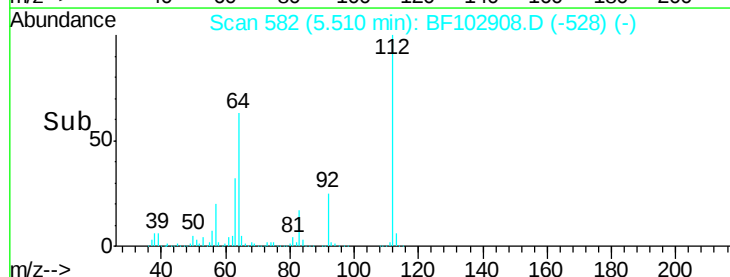
#5

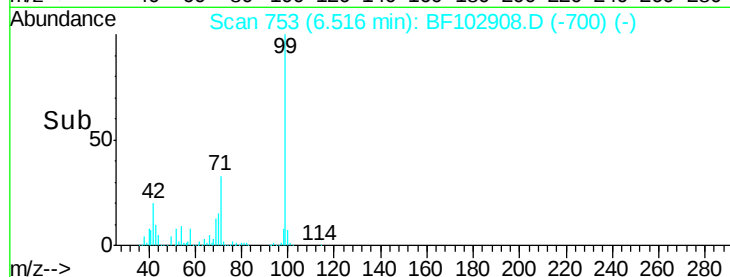
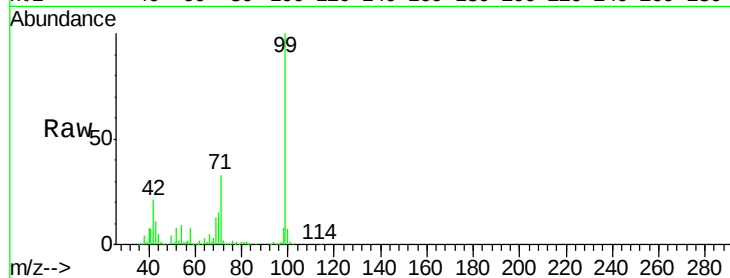
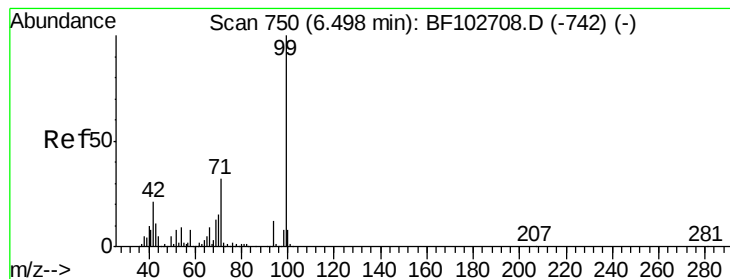
2-Fluorophenol  
Concen: 99.209 ng  
RT: 5.51 min Scan# 582  
Delta R.T. 0.02 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Tgt Ion:112 Resp: 1320829  
Ion Ratio Lower Upper  
112 100  
64 63.0 47.9 71.9  
63 32.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 96.413 ng

RT: 6.52 min Scan# 753

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

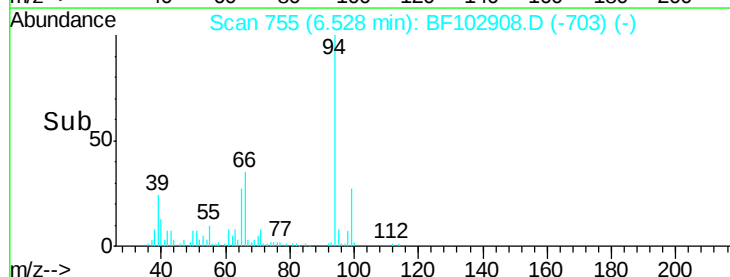
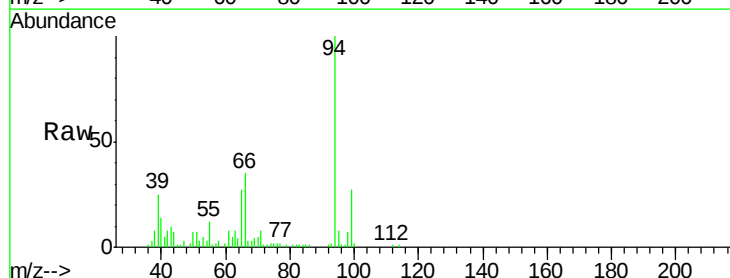
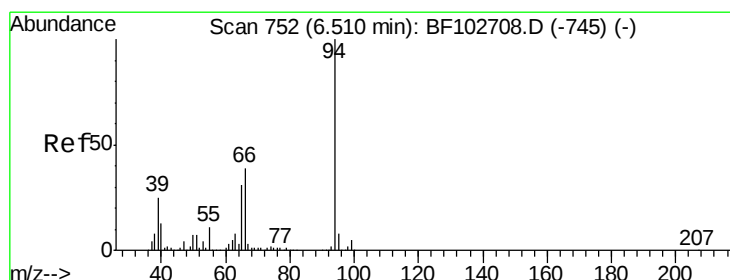
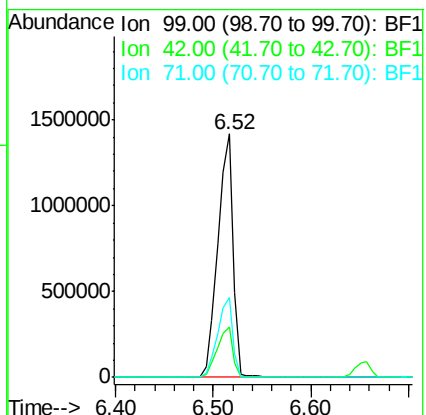
Tot Ion: 99 Resp: 1545544

Ion Ratio Lower Upper

99 100

42 20.5 14.5 21.7

71 33.0 25.4 38.0



#10

Phenol

Concen: 3.365 ng

RT: 6.53 min Scan# 755

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

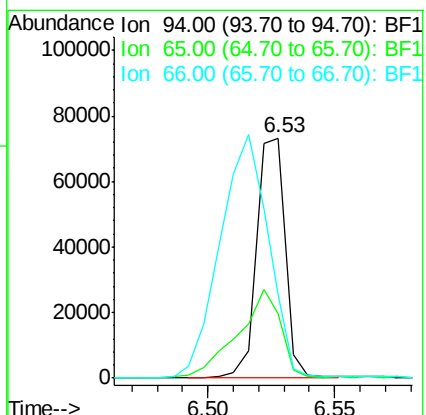
Tgt Ion: 94 Resp: 57815

Ion Ratio Lower Upper

94 100

65 26.8 7.9 47.9

66 34.6 16.2 56.2

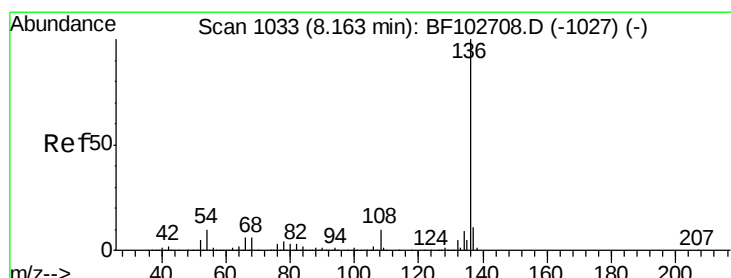
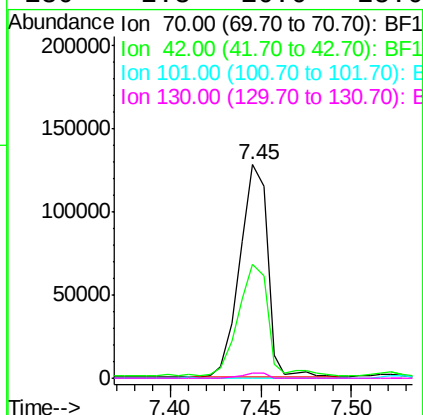
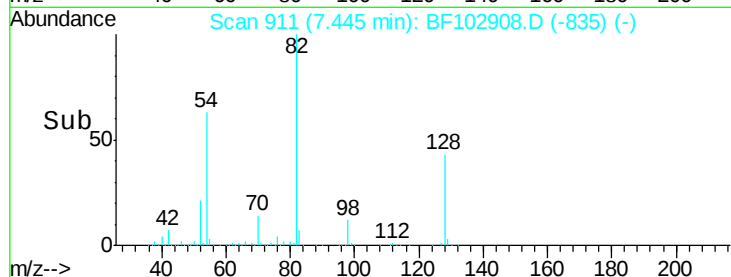
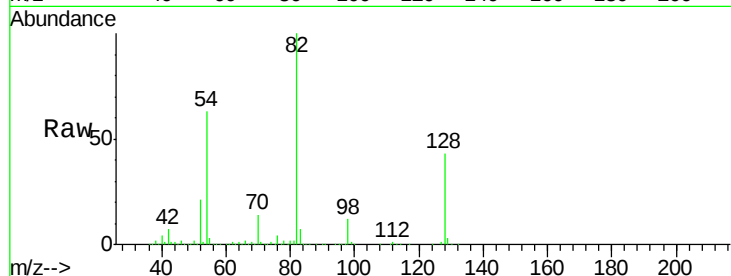




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.879 ng  
RT: 7.45 min Scan# 911  
Delta R.T. 0.15 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

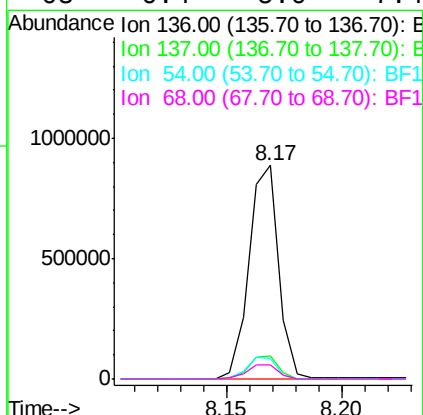
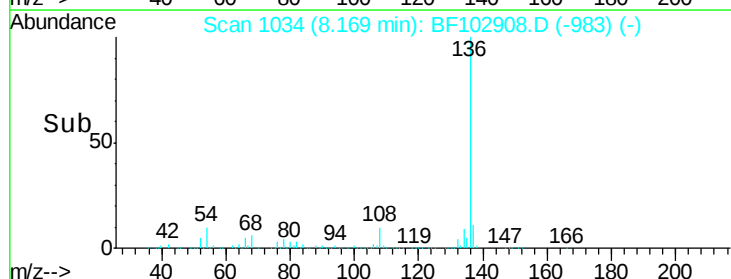
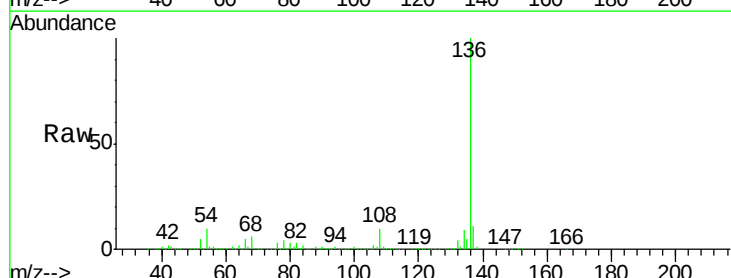
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 70 Resp: 136117  
Ion Ratio Lower Upper  
70 100  
42 53.2 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.3 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. 0.00 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Tgt Ion: 136 Resp: 799193  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.9 13.3  
54 9.8 6.6 9.8  
68 6.4 5.0 7.4

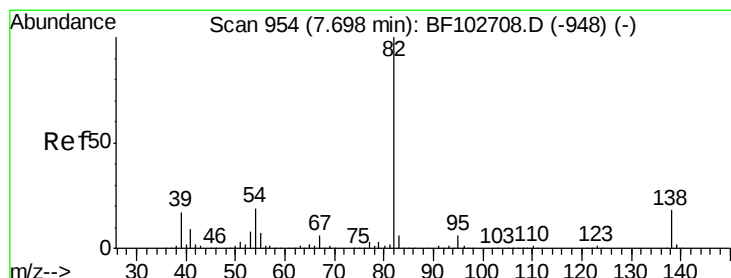
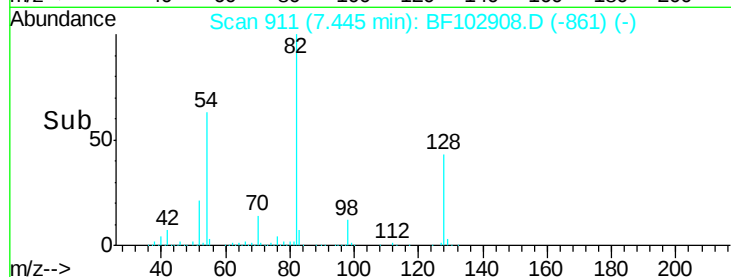
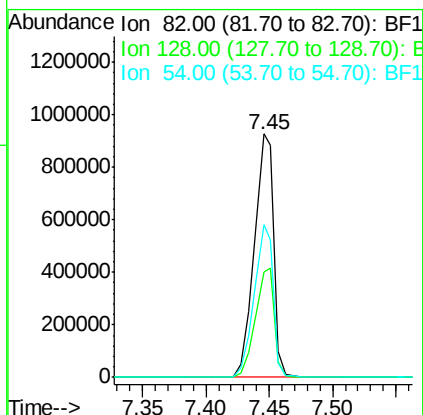
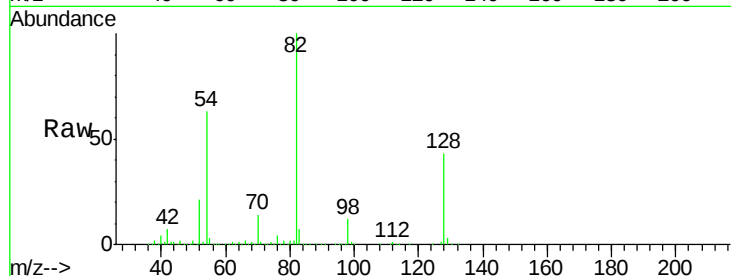




#23  
Nitrobenzene-d5  
Concen: 86.968 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

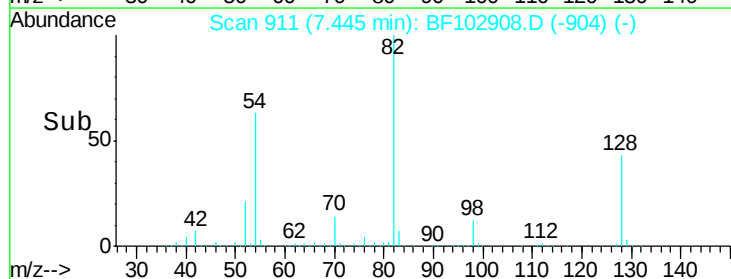
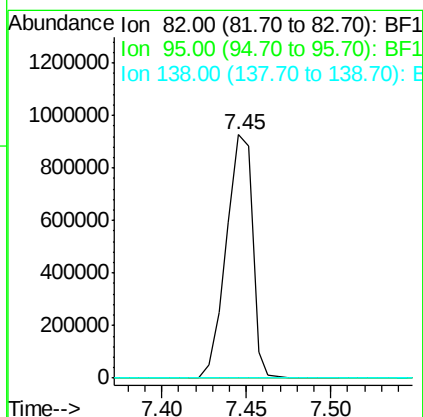
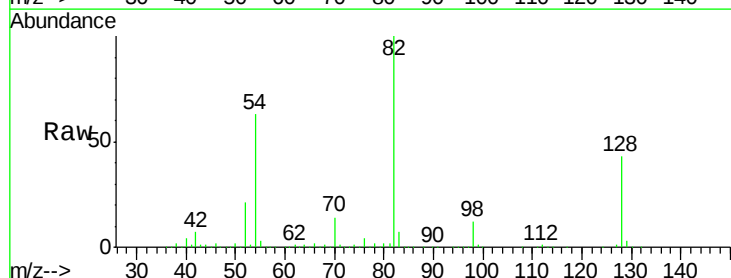
Instrument :  
BNA\_F  
ClientSampleId :

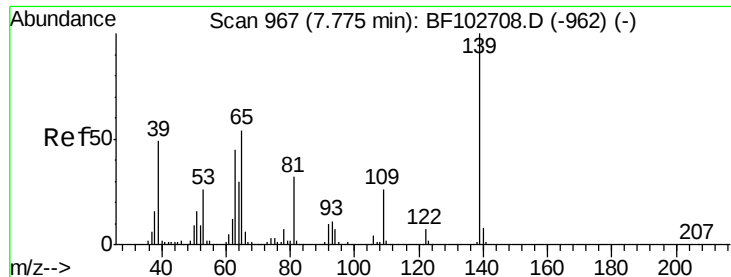
Tot Ion: 82 Resp: 1001924  
Ion Ratio Lower Upper  
82 100  
128 43.4 36.1 54.1  
54 62.6 41.4 62.2#



#25  
Isophorone  
Concen: 37.662 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.26 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Tgt Ion: 82 Resp: 999109  
Ion Ratio Lower Upper  
82 100  
95 0.1 5.2 7.8#  
138 0.0 14.9 22.3#





#26

2-Nitrophenol

Concen: 8.682 ng

RT: 7.79 min Scan# 970

Delta R.T. 0.01 min

Lab File: BF102908.D

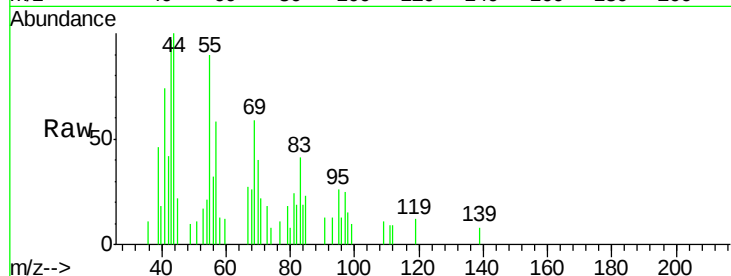
Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampled :

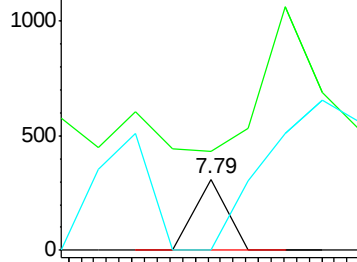
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 139   | Resp: | 109   |
| Ion      | Ratio | Lower | Upper |
| 139      | 100   |       |       |
| 109      | 139.4 | 22.7  | 34.1# |
| 65       | 0.0   | 40.5  | 60.7# |



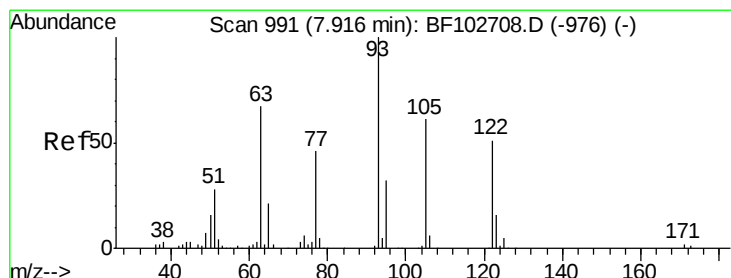
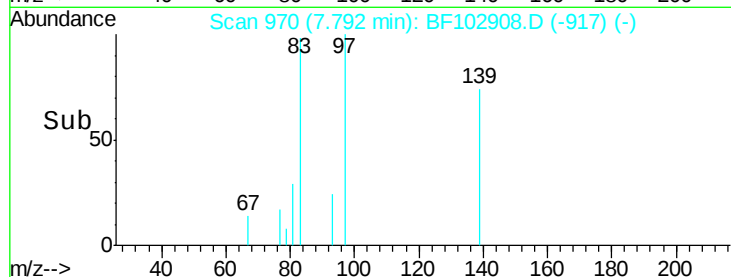
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



Time-->



#32

Benzoic acid

Concen: 8.579 ng

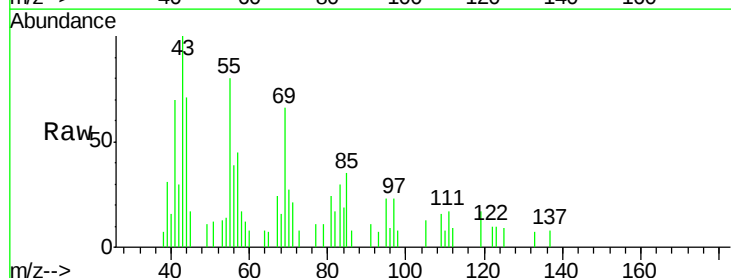
RT: 8.09 min Scan# 1020

Delta R.T. 0.15 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

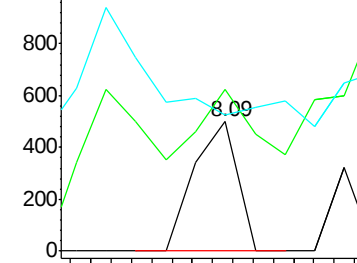
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 122   | Resp: | 298   |
| Ion      | Ratio | Lower | Upper |
| 122      | 100   |       |       |
| 105      | 125.0 | 101.1 | 141.1 |
| 77       | 105.2 | 70.7  | 110.7 |



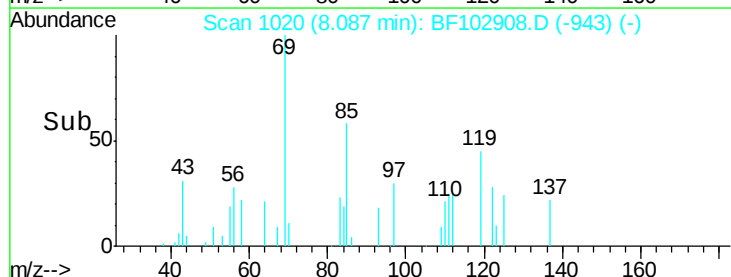
Abundance Ion 122.00 (121.70 to 122.70): E

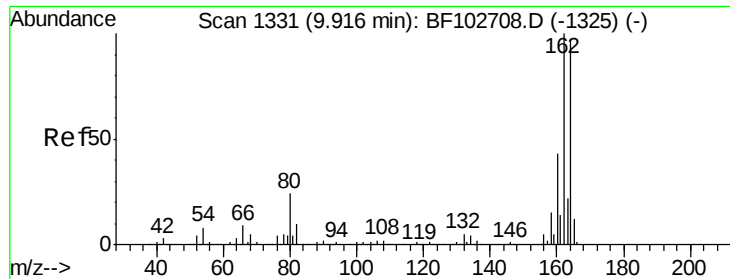
Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



Time-->

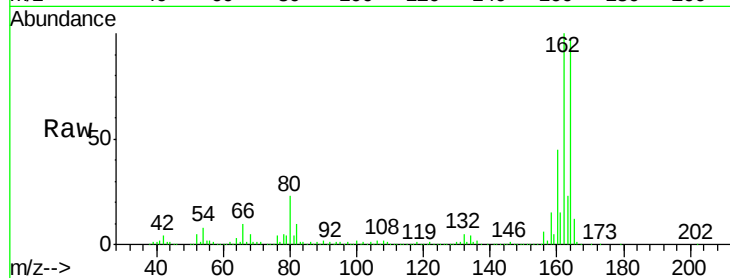




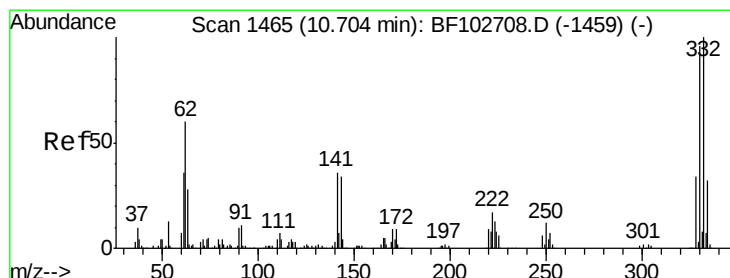
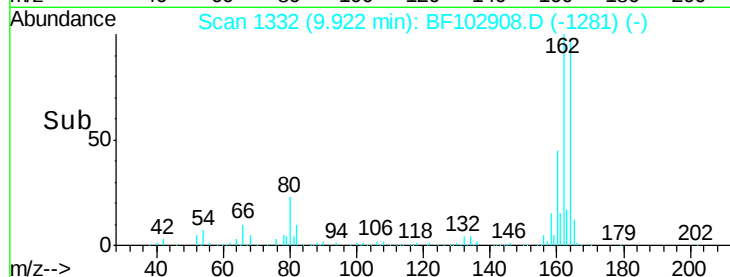
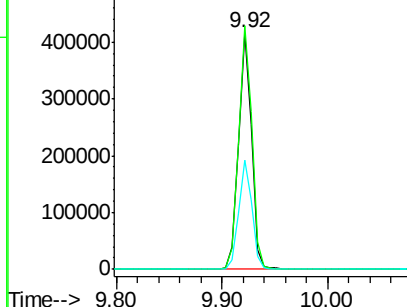
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.00 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.2 | 86.1  | 129.1 |
| 160     | 46.2  | 38.3  | 57.5  |

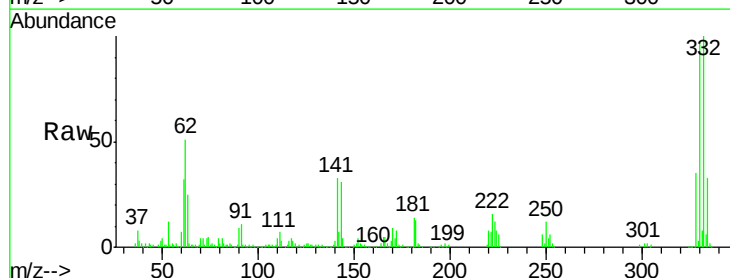


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

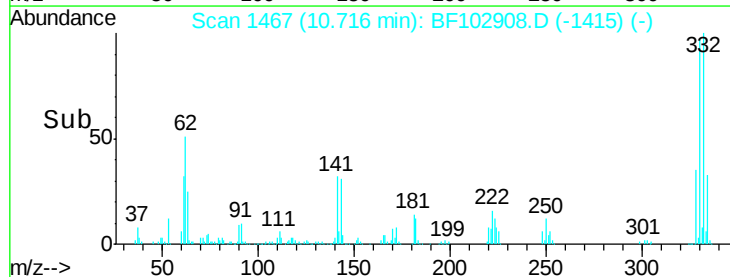
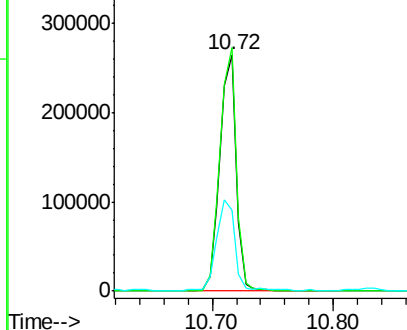


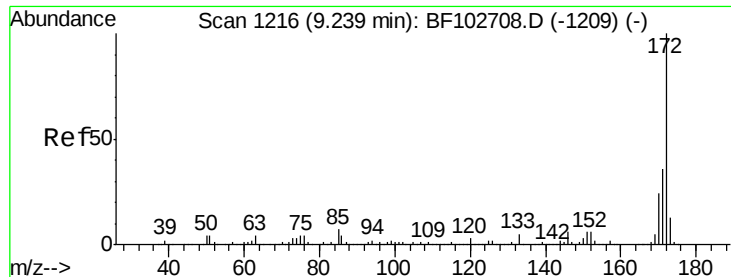
#41  
 2,4,6-Tribromophenol  
 Concen: 89.024 ng  
 RT: 10.72 min Scan# 1467  
 Delta R.T. 0.01 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 103.1 | 77.0  | 115.6 |
| 141     | 42.2  | 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

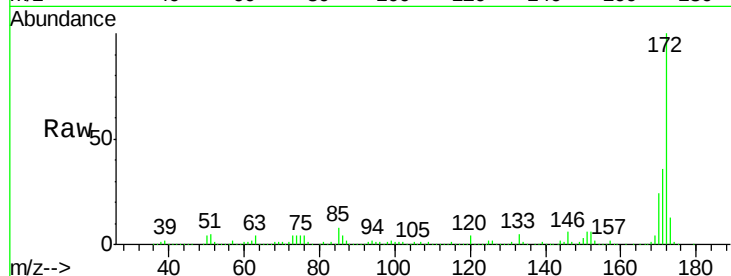




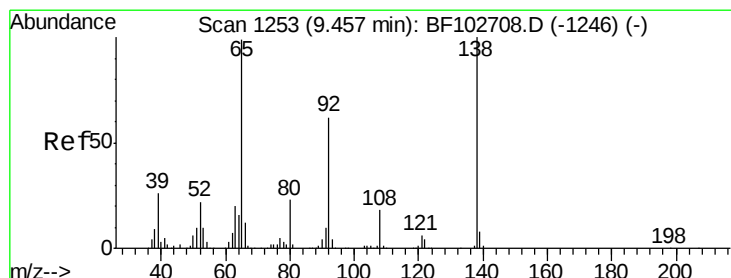
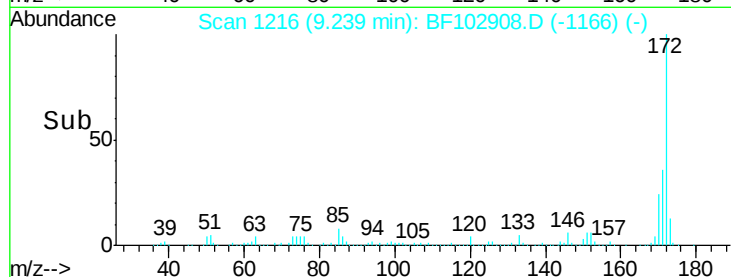
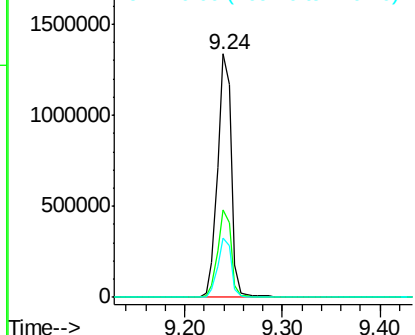
#44  
 2-Fluorobiphenyl  
 Concen: 62.663 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1308343  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 24.2 19.6 29.4

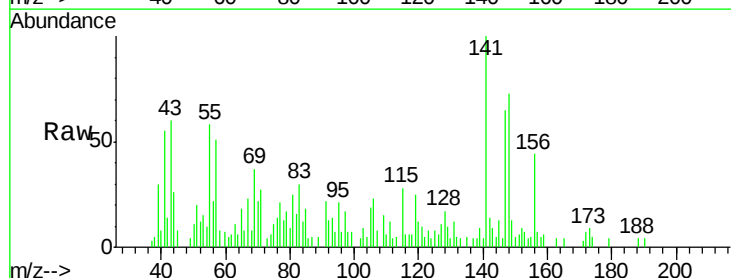


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

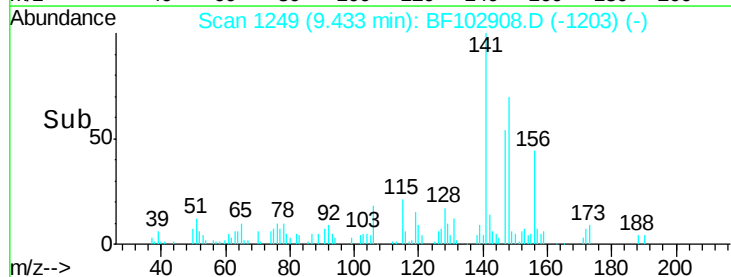
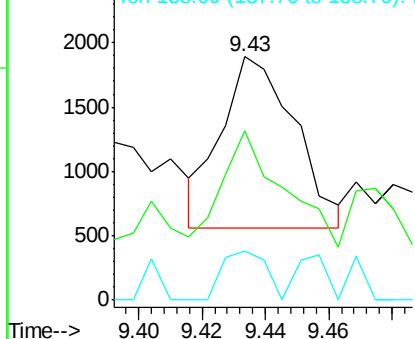


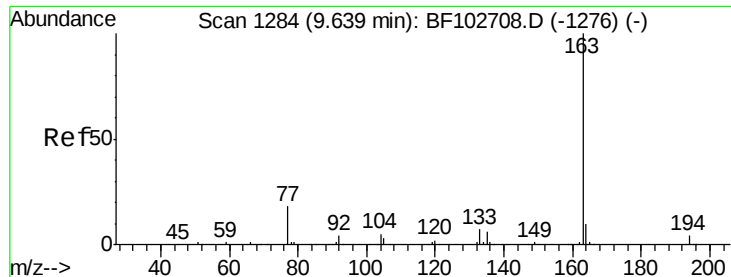
#47  
 2-Nitroaniline  
 Concen: 3.752 ng  
 RT: 9.43 min Scan# 1249  
 Delta R.T. -0.03 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

Tgt Ion: 65 Resp: 2137  
 Ion Ratio Lower Upper  
 65 100  
 92 69.3 55.8 83.6  
 138 20.3 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1  
 Ion 92.00 (91.70 to 92.70): BF1  
 Ion 138.00 (137.70 to 138.70): E

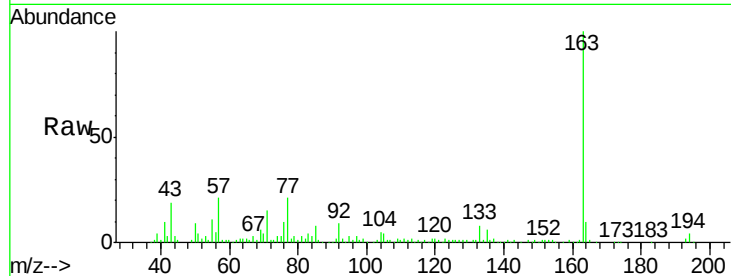




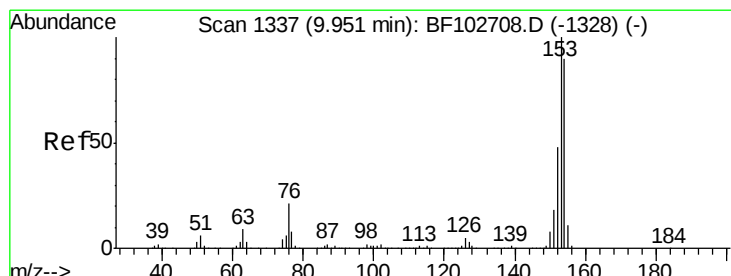
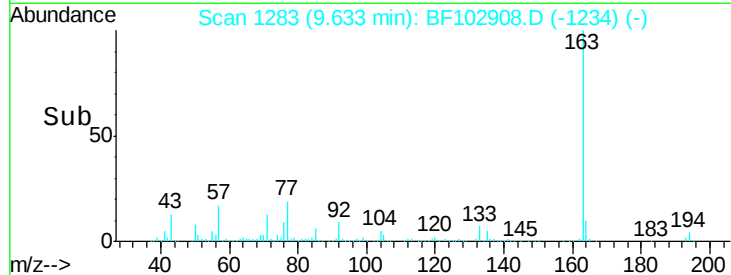
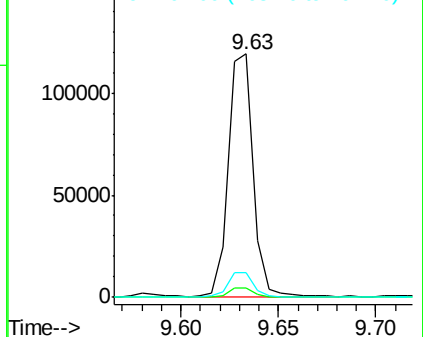
#49  
Dimethylphthalate  
Concen: 3.841 ng  
RT: 9.63 min Scan# 1283  
Delta R.T. -0.01 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.6   | 2.7   | 4.1   |
| 164     | 10.4  | 8.2   | 12.2  |

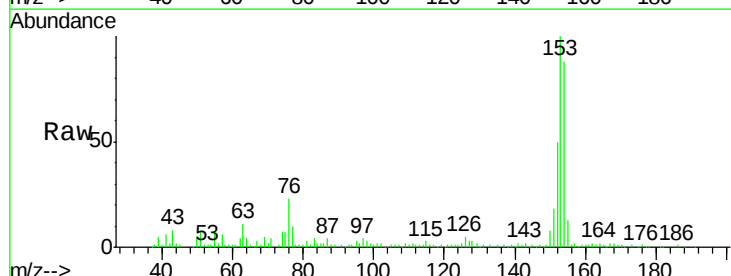


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

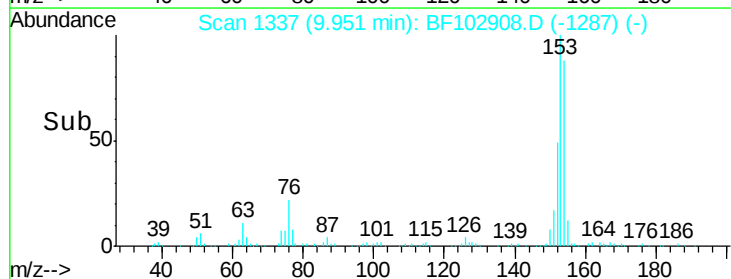
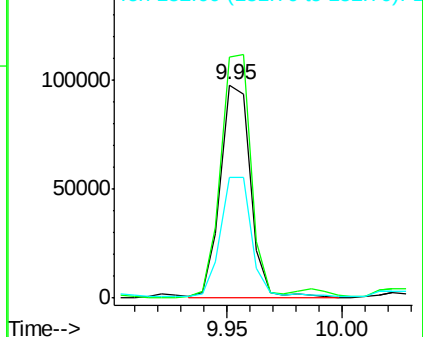


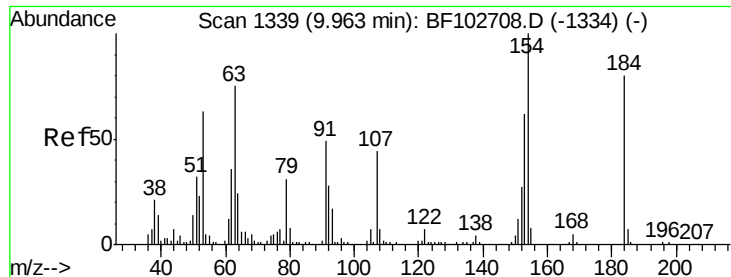
#51  
Acenaphthene  
Concen: 4.114 ng  
RT: 9.95 min Scan# 1337  
Delta R.T. -0.01 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.3 | 91.2  | 136.8 |
| 152     | 56.5  | 43.8  | 65.8  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

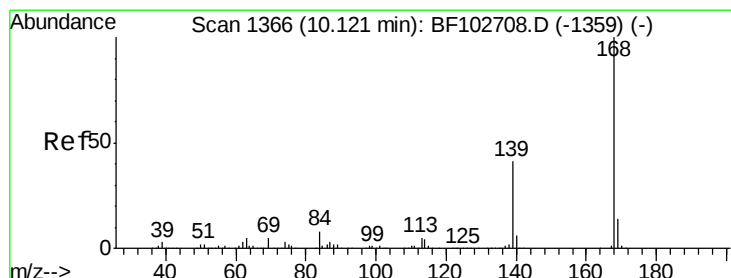
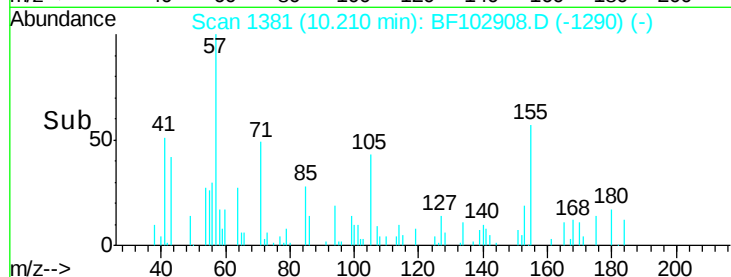
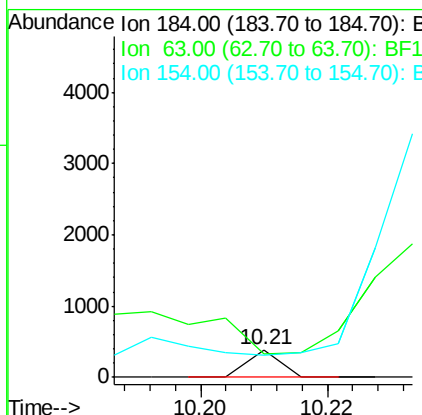
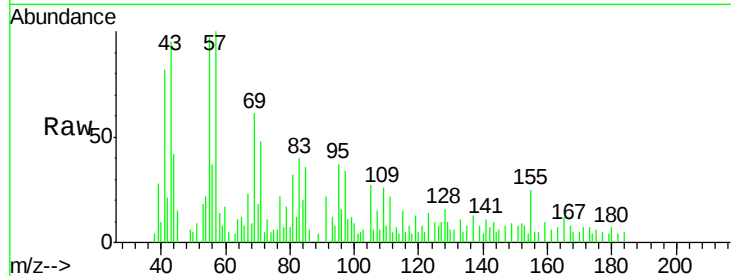




#53  
 2,4-Dinitrophenol  
 Concen: 8.069 ng  
 RT: 10.21 min Scan# 1381  
 Delta R.T. 0.24 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

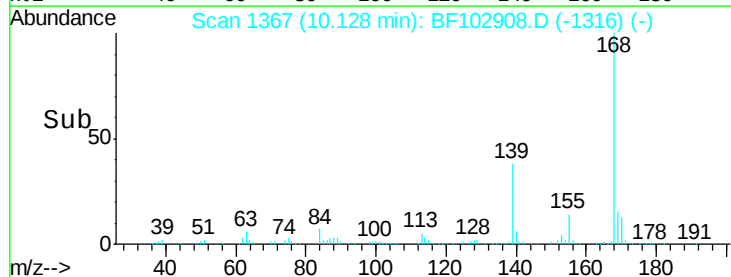
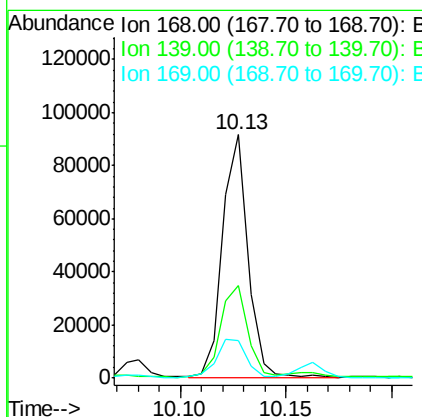
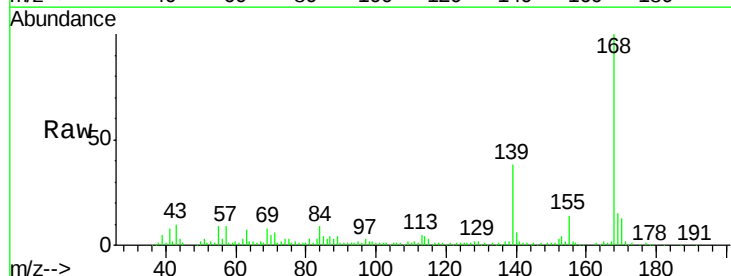
Instrument :  
 BNA\_F  
 ClientSampled :

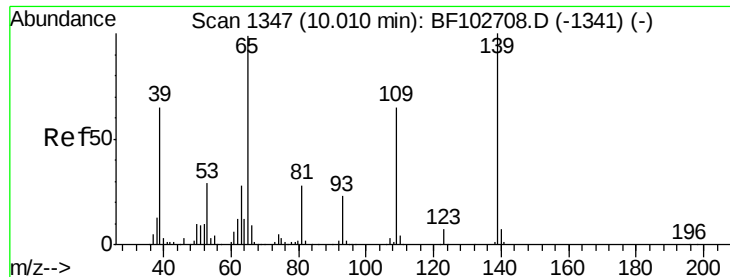
Tot Ion:184 Resp: 137  
 Ion Ratio Lower Upper  
 184 100  
 63 82.9 54.2 81.2#  
 154 80.9 184.0 276.0#



#54  
 Dibenzofuran  
 Concen: 2.529 ng  
 RT: 10.13 min Scan# 1367  
 Delta R.T. 0.00 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

Tgt Ion:168 Resp: 76056  
 Ion Ratio Lower Upper  
 168 100  
 139 38.2 30.1 45.1  
 169 15.2 10.9 16.3





#55

4-Nitrophenol

Concen: 4.454 ng

RT: 10.02 min Scan# 1349

Delta R.T. 0.00 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

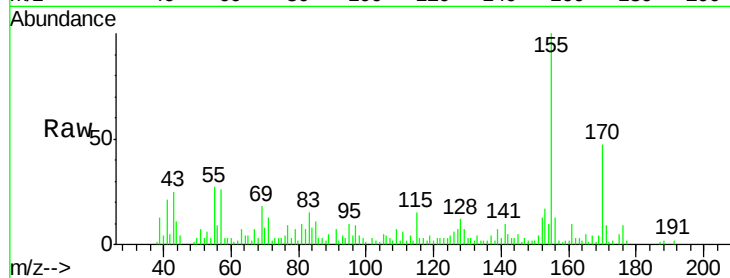
Tot Ion:139 Resp: 2353

Ion Ratio Lower Upper

139 100

109 92.7 48.4 88.4#

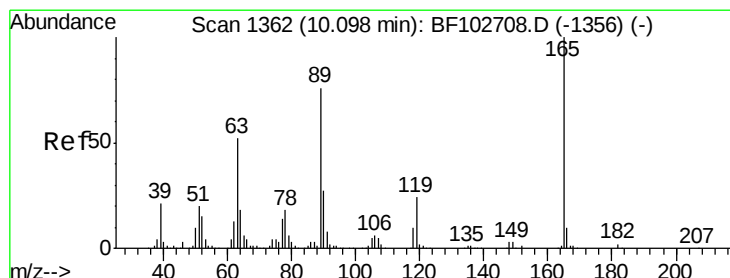
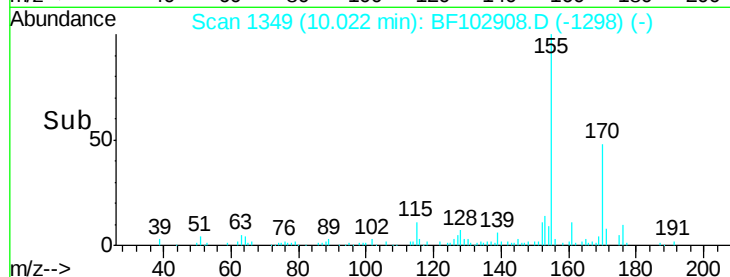
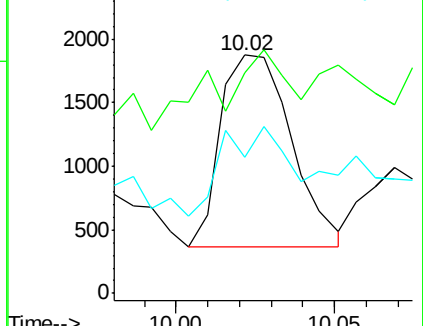
65 57.1 72.6 112.6#



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: 3.440 ng

RT: 10.07 min Scan# 1358

Delta R.T. -0.03 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Tgt Ion:165 Resp: 2682

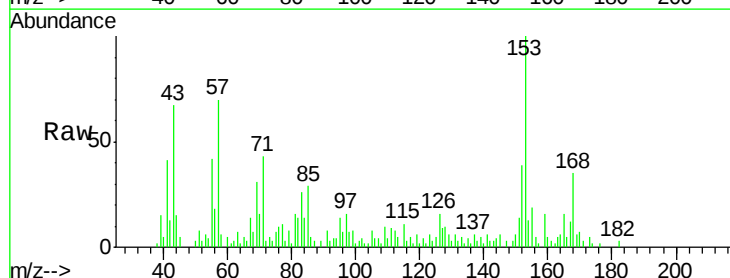
Ion Ratio Lower Upper

165 100

63 46.3 36.4 54.6

89 16.0 57.8 86.6#

182 17.4 1.6 2.4#

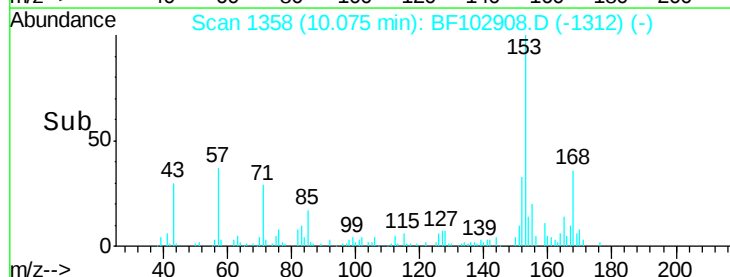
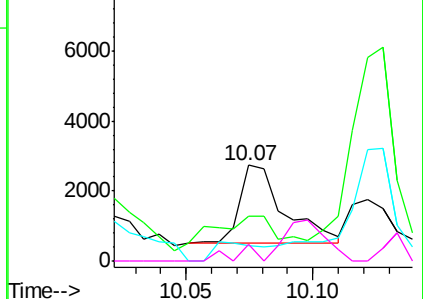


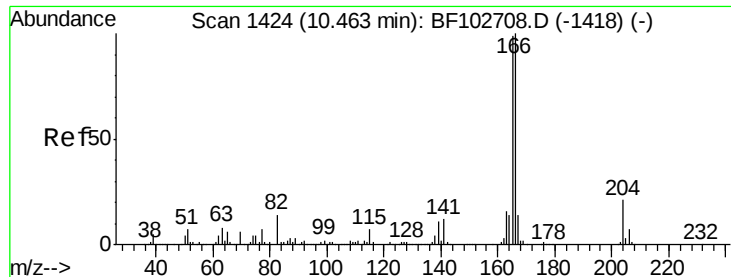
Abundance Ion 165.00 (164.70 to 165.70): E

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

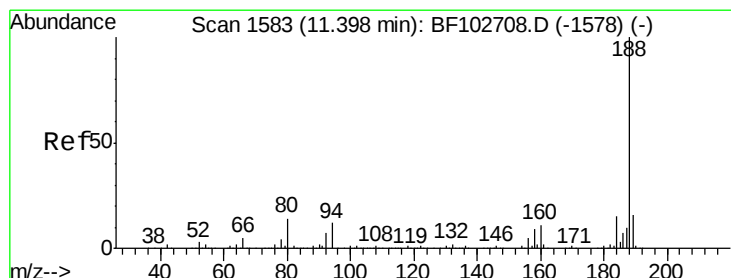
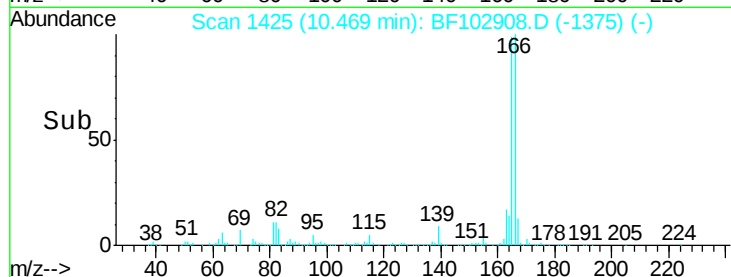
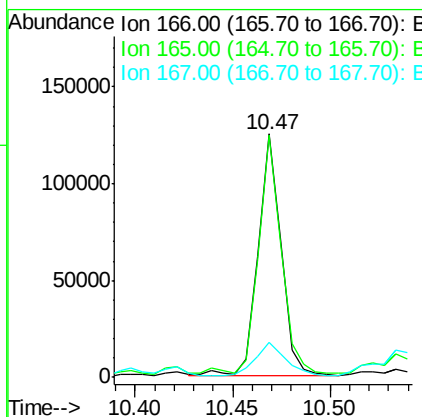
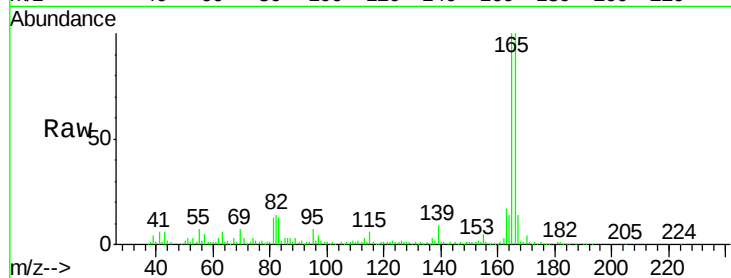




#57  
 Fluorene  
 Concen: 4.611 ng  
 RT: 10.47 min Scan# 1425  
 Delta R.T. -0.01 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

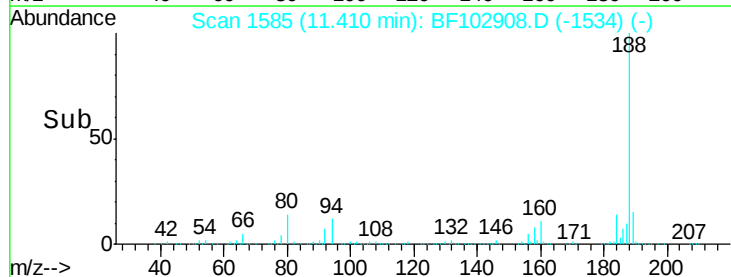
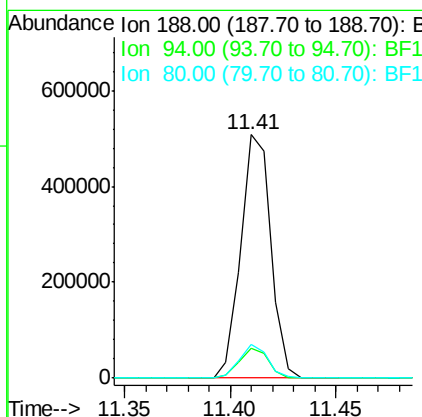
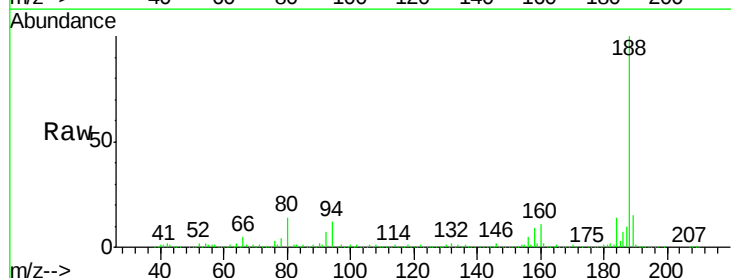
Instrument :  
 BNA\_F  
 ClientSampleId :

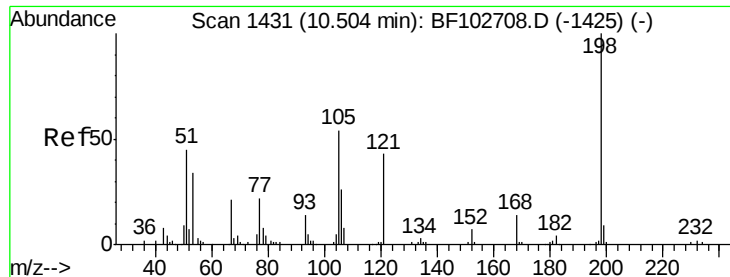
Tot Ion:166 Resp: 100887  
 Ion Ratio Lower Upper  
 166 100  
 165 99.5 79.8 119.8  
 167 14.4 10.6 16.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: BF102908.D  
 Acq: 12 Feb 2018 9:41

Tgt Ion:188 Resp: 501068  
 Ion Ratio Lower Upper  
 188 100  
 94 12.5 8.5 12.7  
 80 13.8 9.2 13.8#





#64

4,6-Dinitro-2-methylphenol

Concen: 8.858 ng

RT: 10.66 min Scan# 1457

Delta R.T. 0.14 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampled :

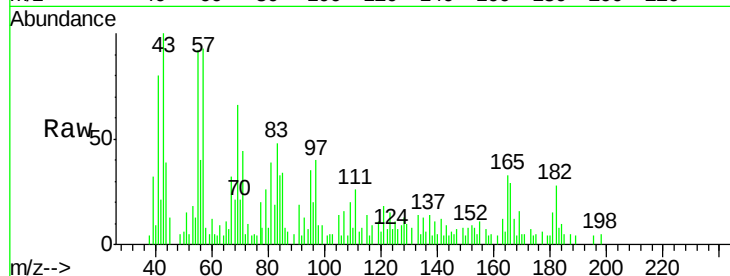
Tot Ion:198 Resp: 148

Ion Ratio Lower Upper

198 100

51 297.1 37.7 77.7#

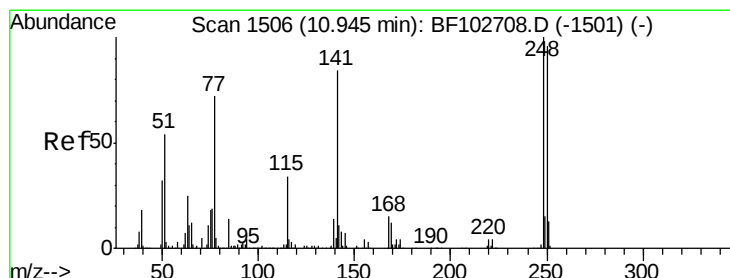
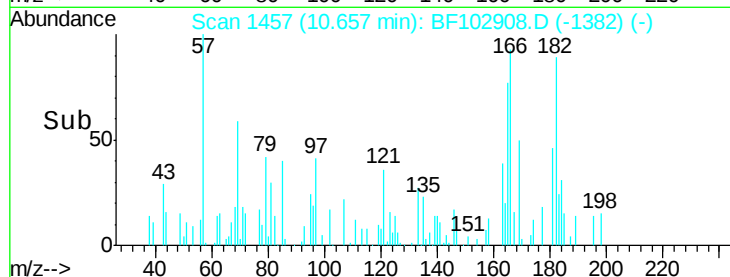
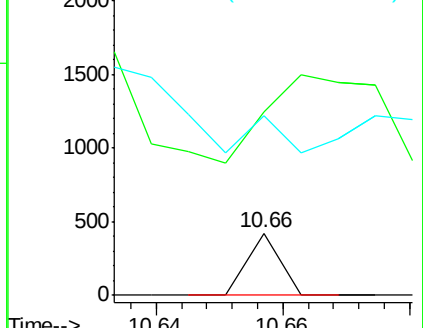
105 289.5 36.3 76.3#



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: 3.184 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.24 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

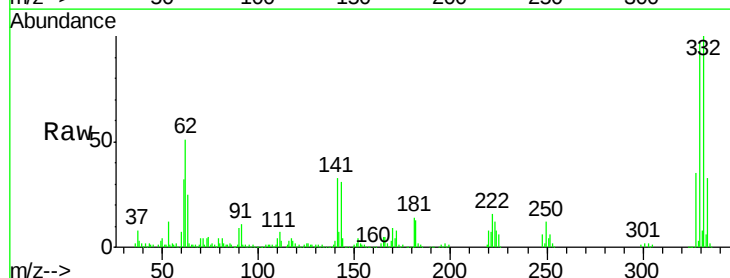
Tgt Ion:248 Resp: 16875

Ion Ratio Lower Upper

248 100

250 192.3 76.9 115.3#

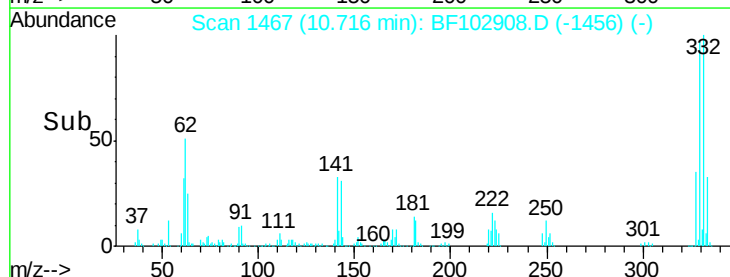
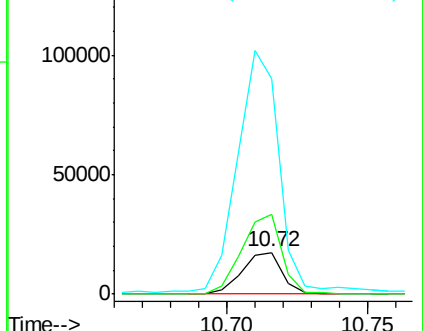
141 519.3 74.4 111.6#

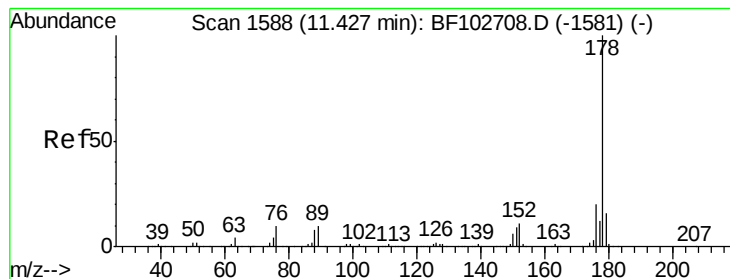


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 44.296 ng

RT: 11.44 min Scan# 1590

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

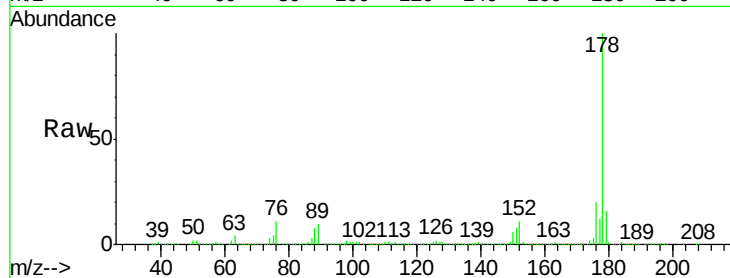
Tot Ion:178 Resp: 1236132

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.9  | 15.8  | 23.8  |
| 179 | 16.1  | 13.0  | 19.6  |

178 100

176 19.9 15.8 23.8

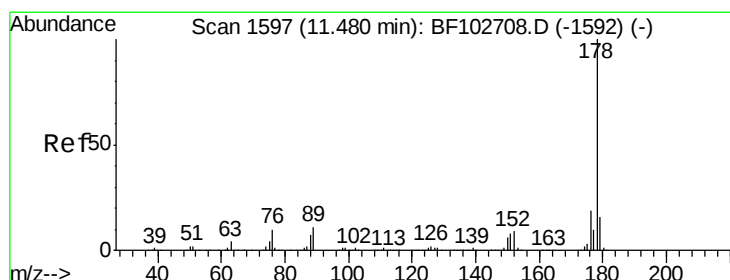
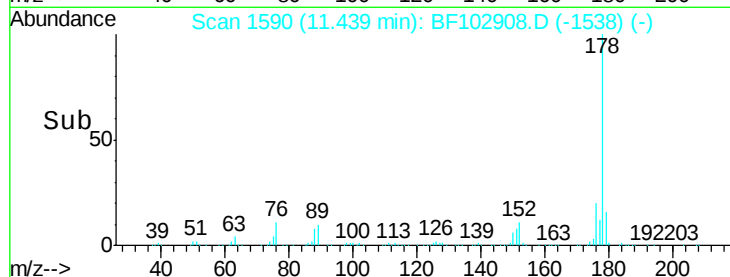
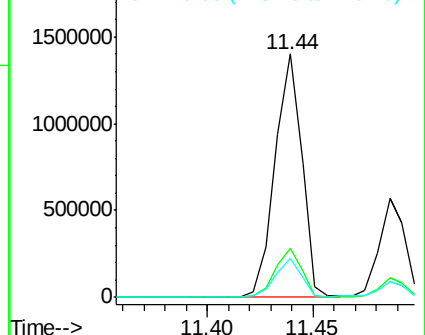
179 16.1 13.0 19.6



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



#71

Anthracene

Concen: 16.675 ng

RT: 11.49 min Scan# 1598

Delta R.T. 0.00 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

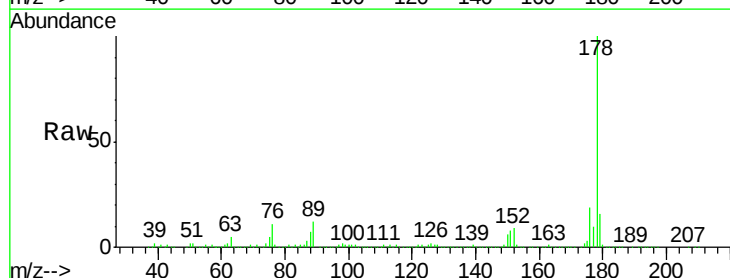
Tgt Ion:178 Resp: 473302

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.3  | 15.4  | 23.2  |
| 179 | 15.7  | 12.6  | 19.0  |

178 100

176 19.3 15.4 23.2

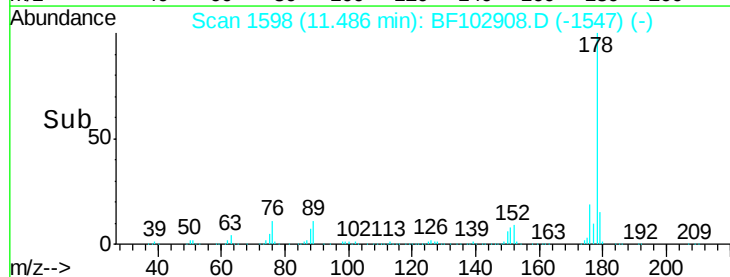
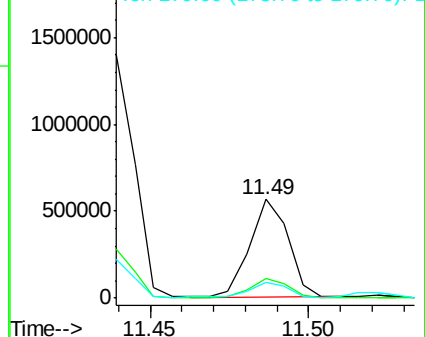
179 15.7 12.6 19.0

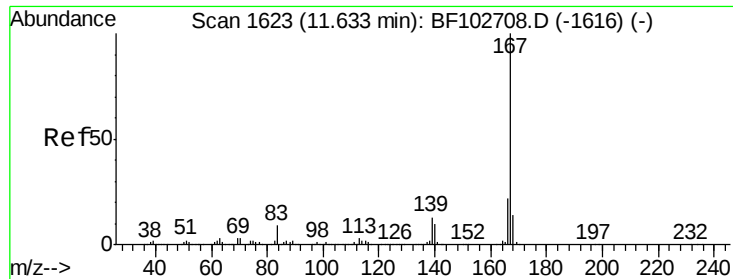


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.028 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

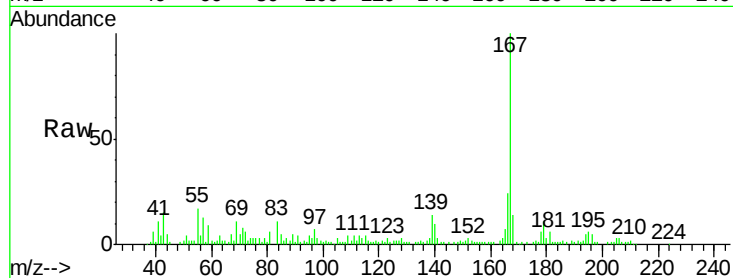
Tot Ion:167 Resp: 56399

Ion Ratio Lower Upper

167 100

166 23.6 17.6 26.4

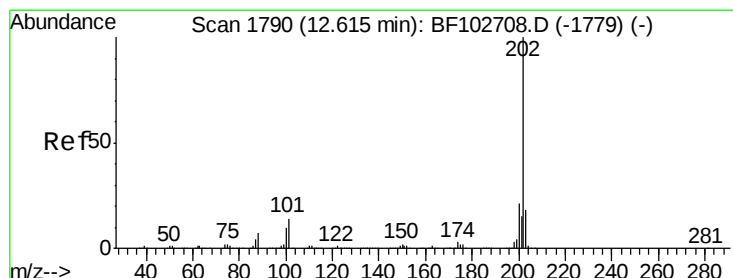
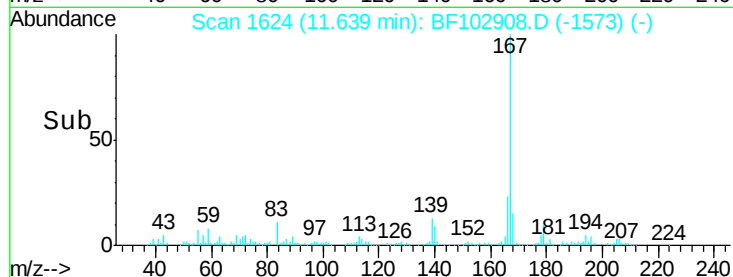
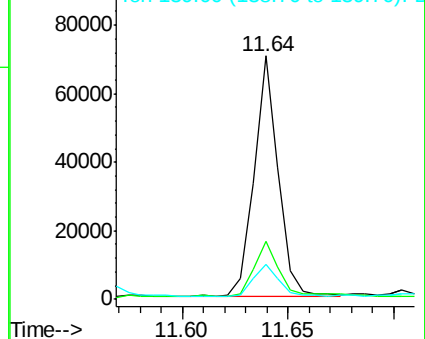
139 14.1 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 48.698 ng

RT: 12.63 min Scan# 1793

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

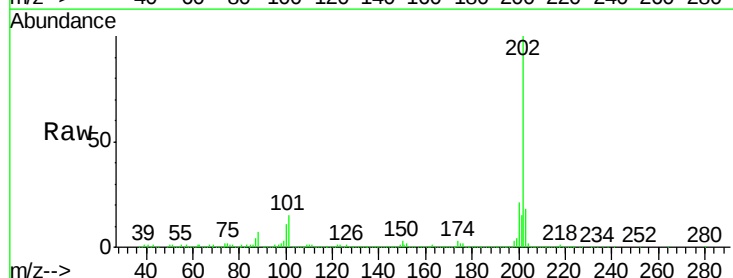
Tgt Ion:202 Resp: 1367286

Ion Ratio Lower Upper

202 100

101 15.1 0.0 34.1

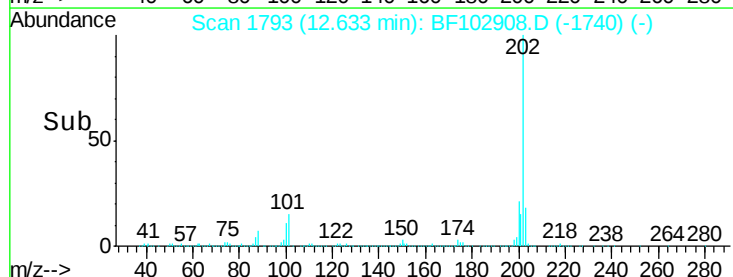
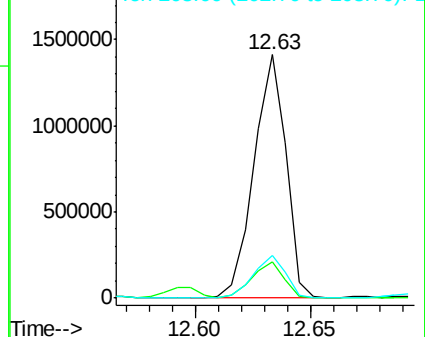
203 17.7 0.0 38.1

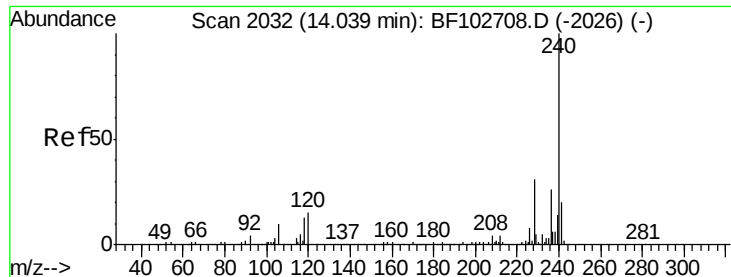


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

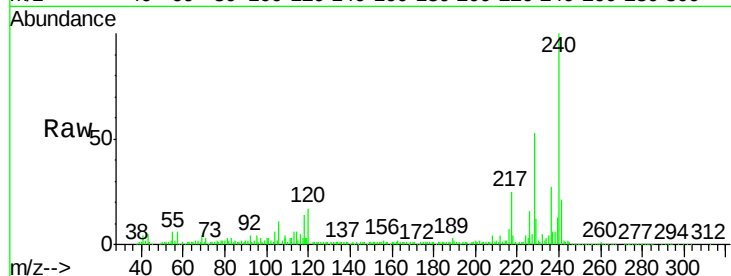
Tot Ion:240 Resp: 332273

Ion Ratio Lower Upper

240 100

120 16.6 9.5 14.3#

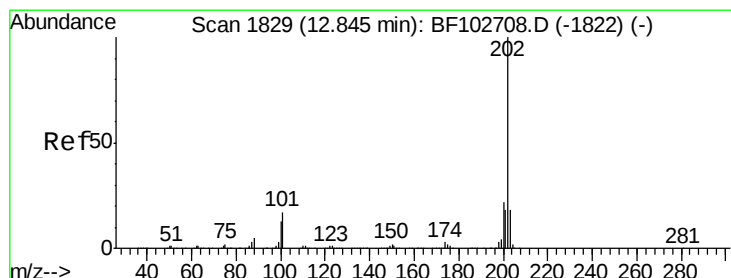
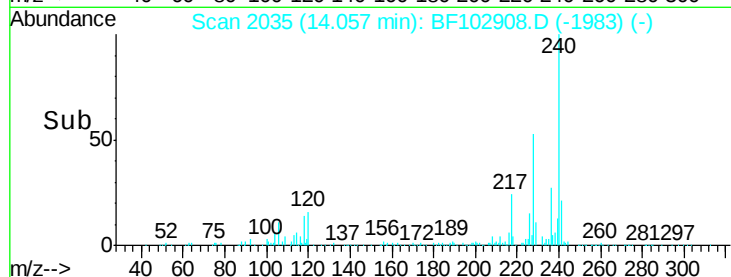
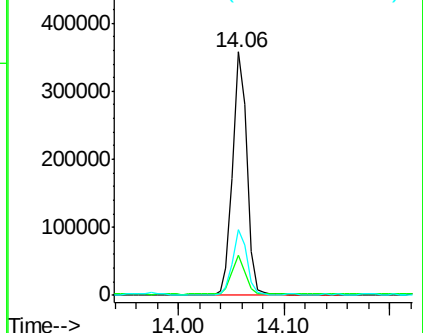
236 27.2 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 47.210 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

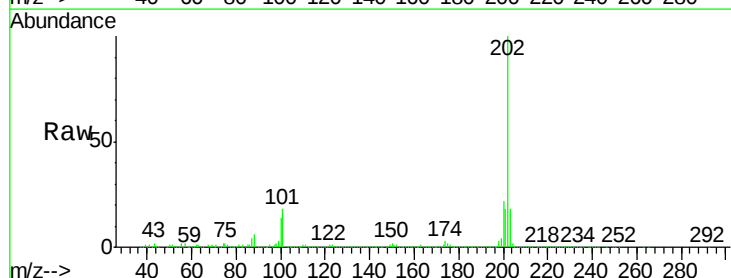
Tgt Ion:202 Resp: 1230082

Ion Ratio Lower Upper

202 100

200 21.8 17.4 26.2

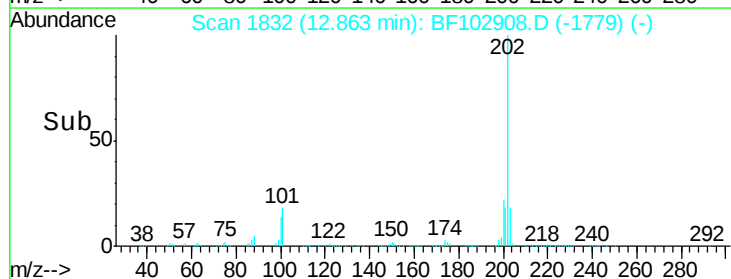
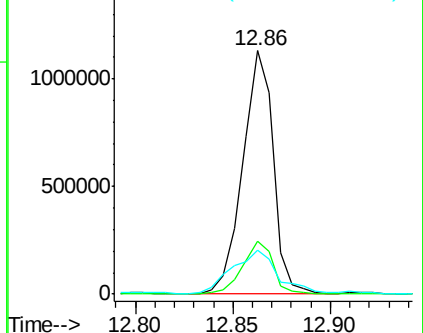
203 18.1 14.3 21.5

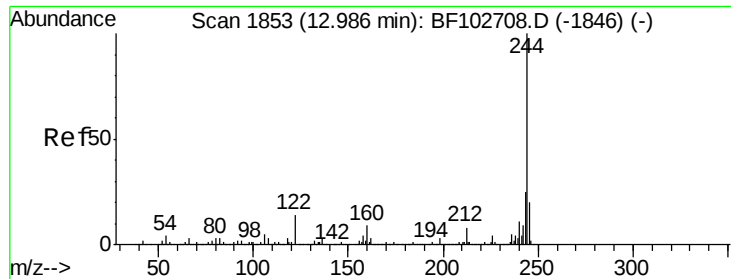


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 57.457 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.00 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

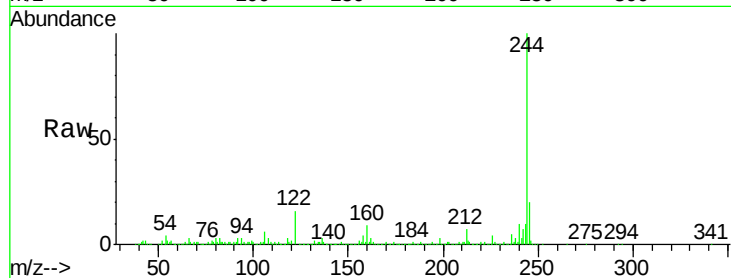
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:244 Resp: 806307

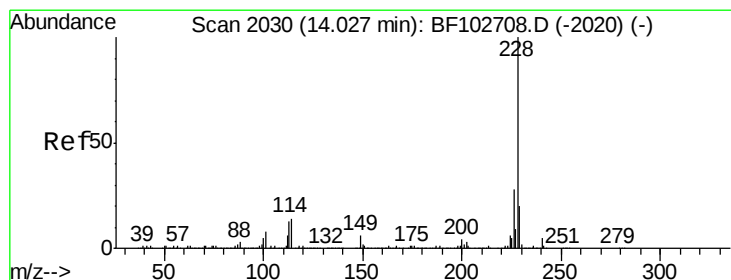
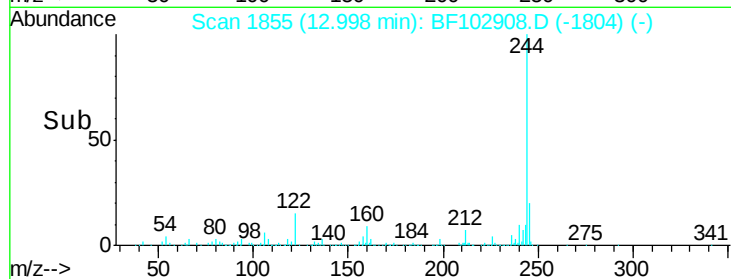
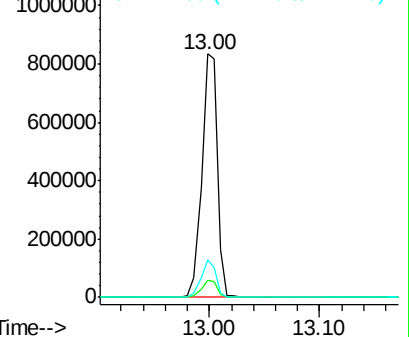
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.8   | 5.4   | 8.0   |
| 122 | 15.6  | 11.0  | 16.4  |



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: 29.590 ng

RT: 14.04 min Scan# 2033

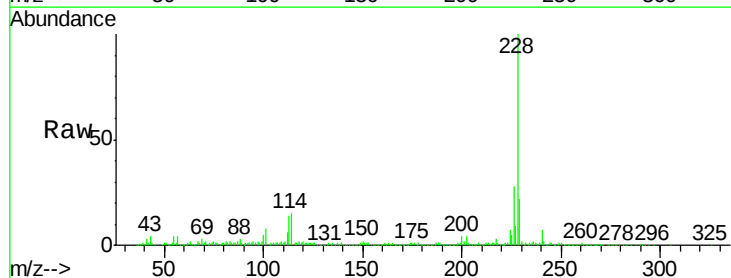
Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Tgt Ion:228 Resp: 618340

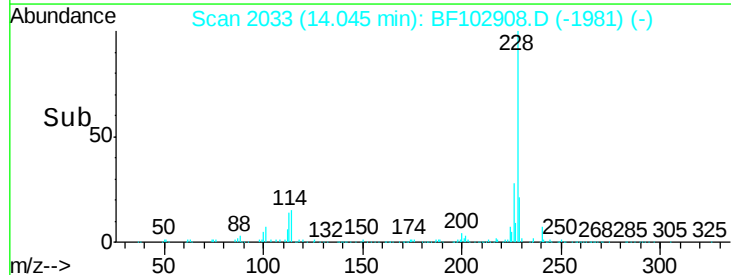
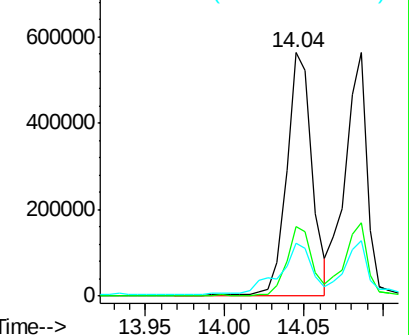
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.4  | 22.6  | 33.8  |
| 229 | 21.7  | 15.8  | 23.6  |

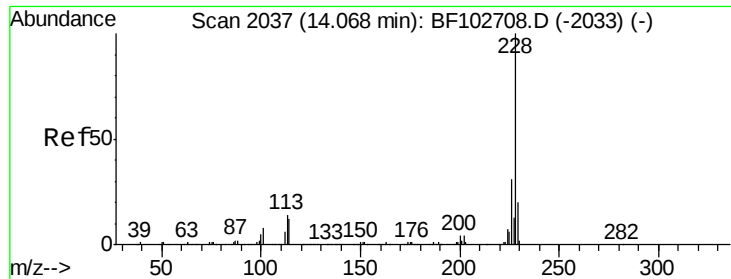


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 25.915 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

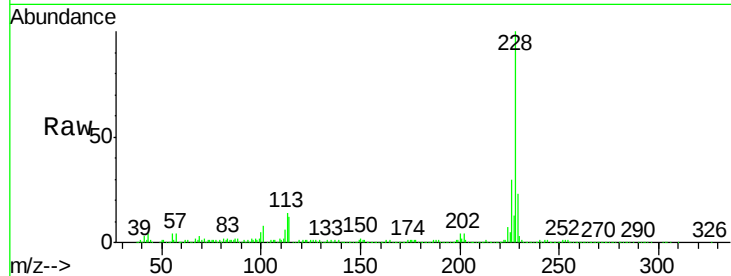
Tot Ion:228 Resp: 545901

Ion Ratio Lower Upper

228 100

226 30.3 25.0 37.6

229 22.6 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

600000

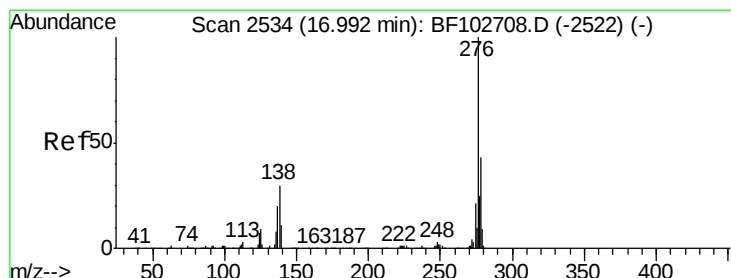
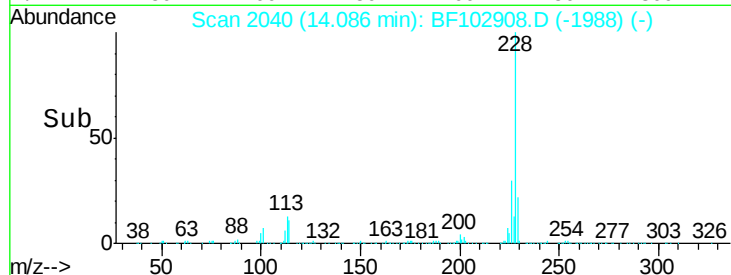
400000

200000

0

14.09

Time-->



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.677 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.04 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

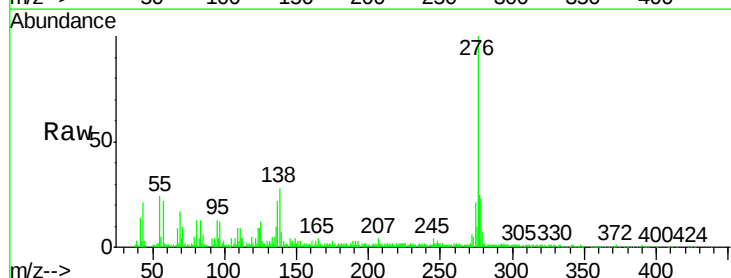
Tgt Ion:276 Resp: 186543

Ion Ratio Lower Upper

276 100

138 28.5 25.0 37.6

277 24.9 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

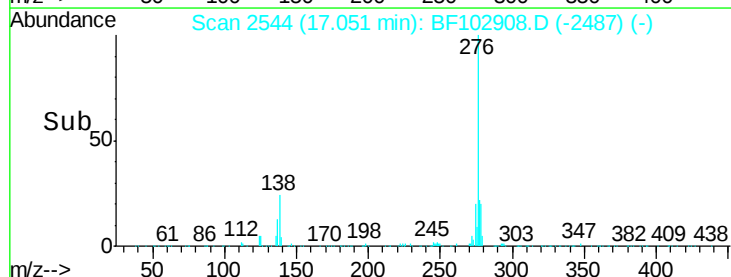
100000

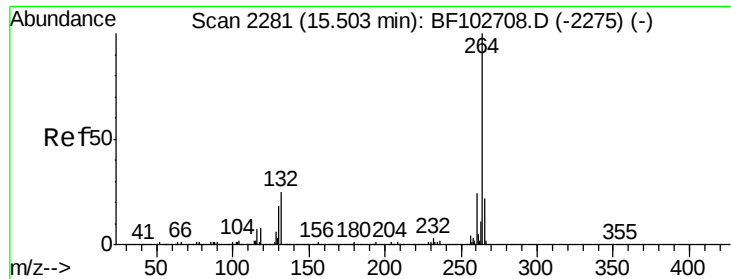
50000

0

17.05

Time-->

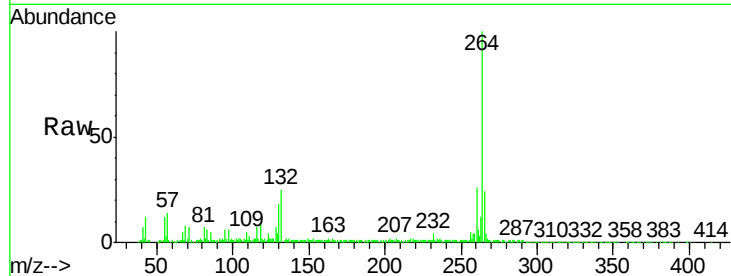




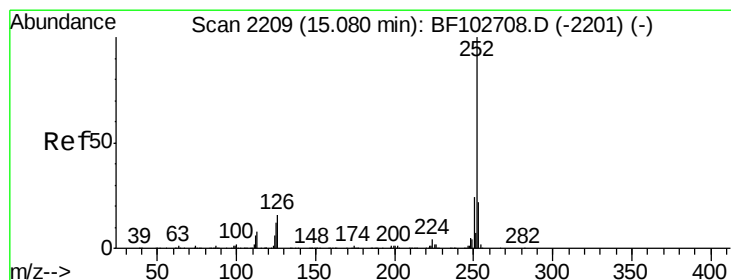
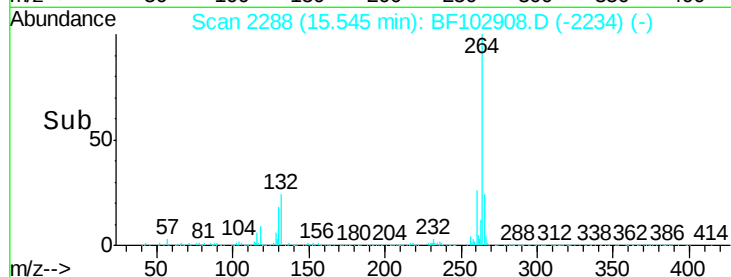
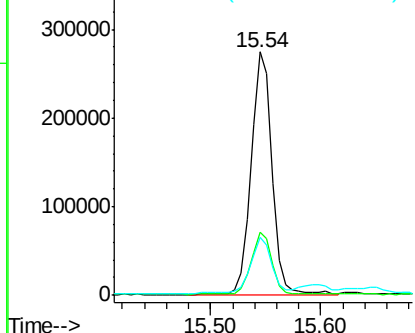
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2288  
Delta R.T. 0.02 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 363789  
Ion Ratio Lower Upper  
264 100  
260 26.1 19.2 28.8  
265 24.0 17.5 26.3

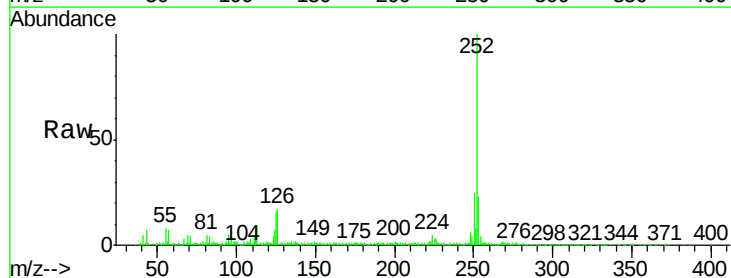


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

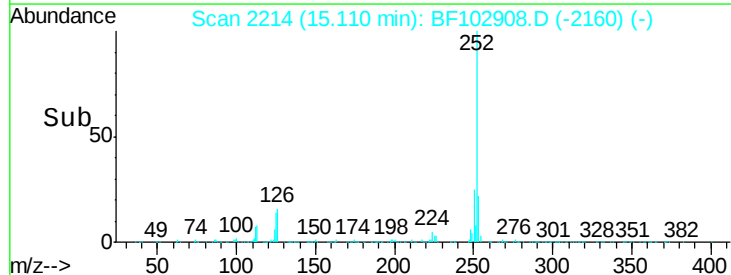
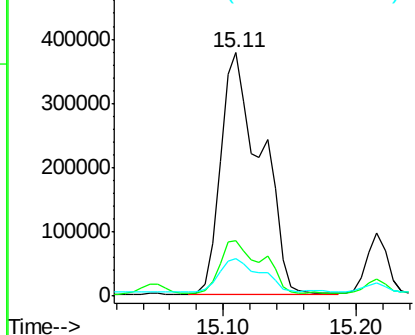


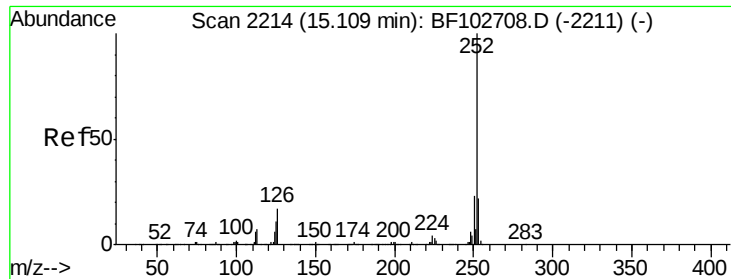
#87  
Benzo(b)fluoranthene  
Concen: 33.873 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. 0.02 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Tgt Ion:252 Resp: 798920  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.0 25.6  
125 15.5 9.0 13.6#



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





#88

Benzo(k)fluoranthene

Concen: 35.451 ng

RT: 15.11 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

Instrument :

BNA\_F

ClientSampleId :

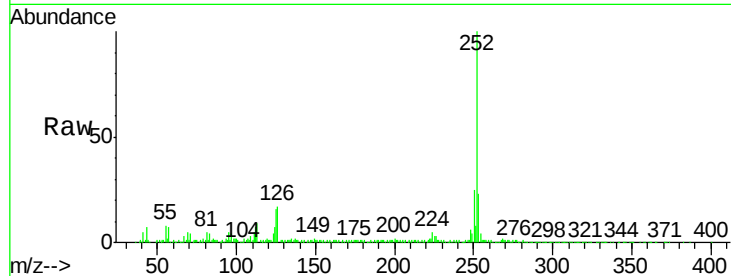
Tot Ion:252 Resp: 798920

Ion Ratio Lower Upper

252 100

253 22.5 17.9 26.9

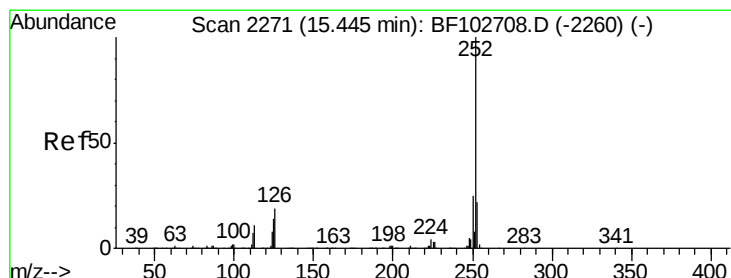
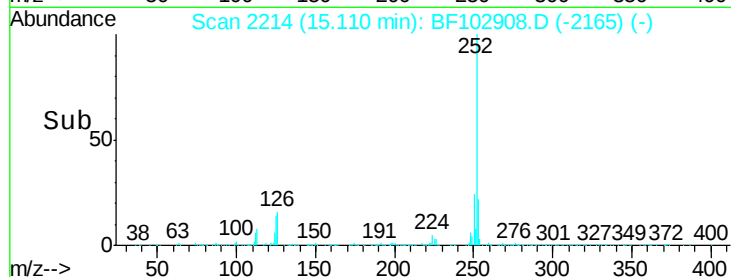
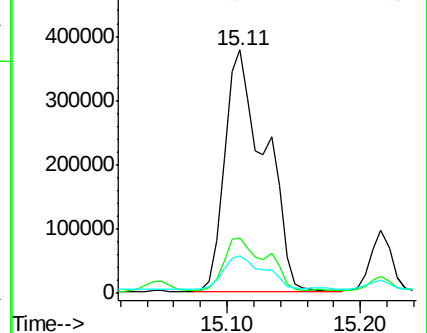
125 15.5 10.2 15.2#



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



#89

Benzo(a)pyrene

Concen: 20.207 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.02 min

Lab File: BF102908.D

Acq: 12 Feb 2018 9:41

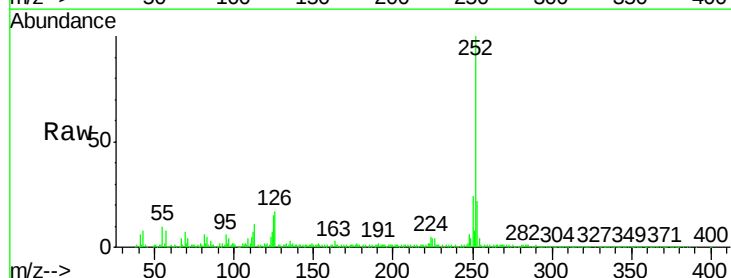
Tgt Ion:252 Resp: 428997

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

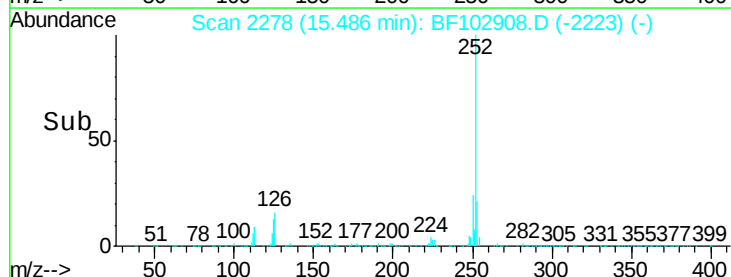
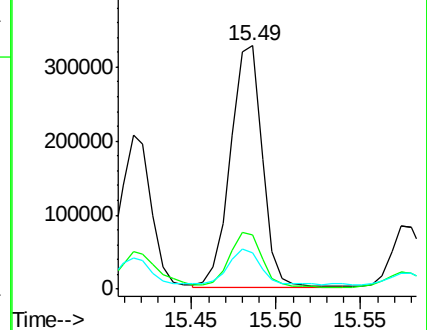
125 14.7 9.8 14.6#

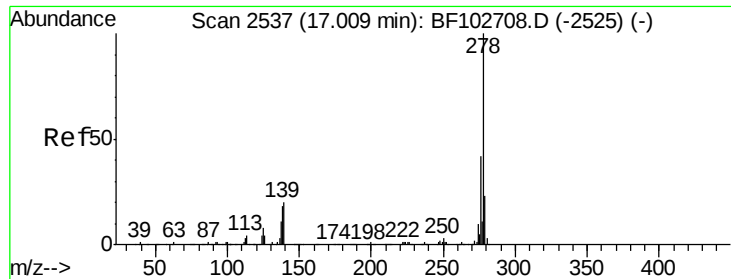


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

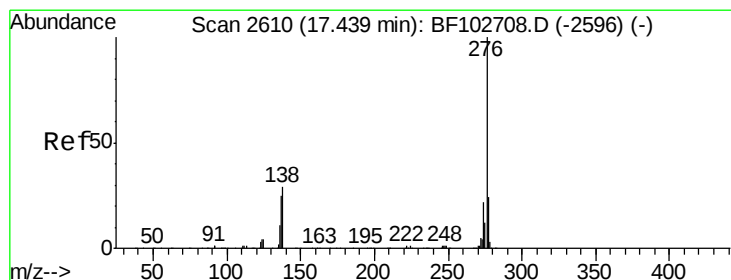
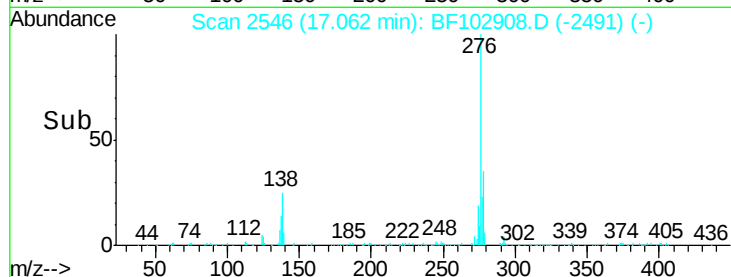
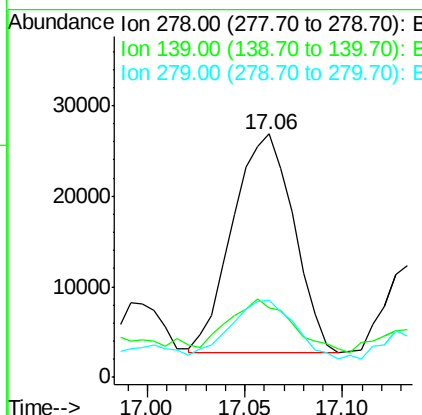
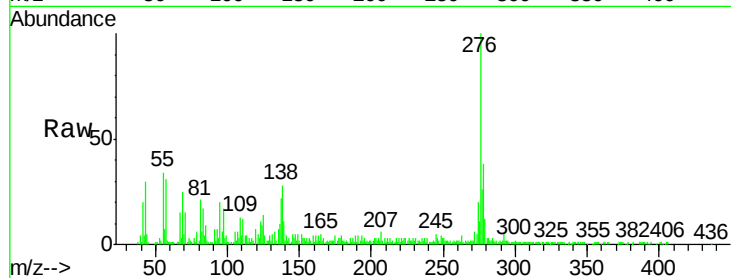




#90  
Dibenzo(a,h)anthracene  
Concen: 3.054 ng  
RT: 17.06 min Scan# 2546  
Delta R.T. 0.02 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:278 Resp: 52630  
Ion Ratio Lower Upper  
278 100  
139 28.5 15.9 23.9#  
279 31.9 19.0 28.4#



#91  
Benzo(g,h,i)perylene  
Concen: 10.151 ng  
RT: 17.51 min Scan# 2622  
Delta R.T. 0.04 min  
Lab File: BF102908.D  
Acq: 12 Feb 2018 9:41

Tgt Ion:276 Resp: 171217  
Ion Ratio Lower Upper  
276 100  
277 24.5 17.9 26.9  
138 30.7 21.8 32.8

