

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030518\  
 Data File : BF103402.D  
 Acq On : 5 Mar 2018 11:57  
 Operator : SJ/JU  
 Sample : J1724-11RE  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 05 13:41:37 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 05 13:40:47 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 140958   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 590853   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 264900   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 433217   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 260173   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.58 | 264  | 260578   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 1004176 | 107.74 | ng | 0.00 |
| 7) Phenol-d6             | 6.52  | 99  | 1186776 | 104.06 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.44  | 82  | 744917  | 72.00  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 193005  | 86.08  | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 939333  | 56.20  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 723504  | 66.85  | ng | 0.00 |

## Target Compounds

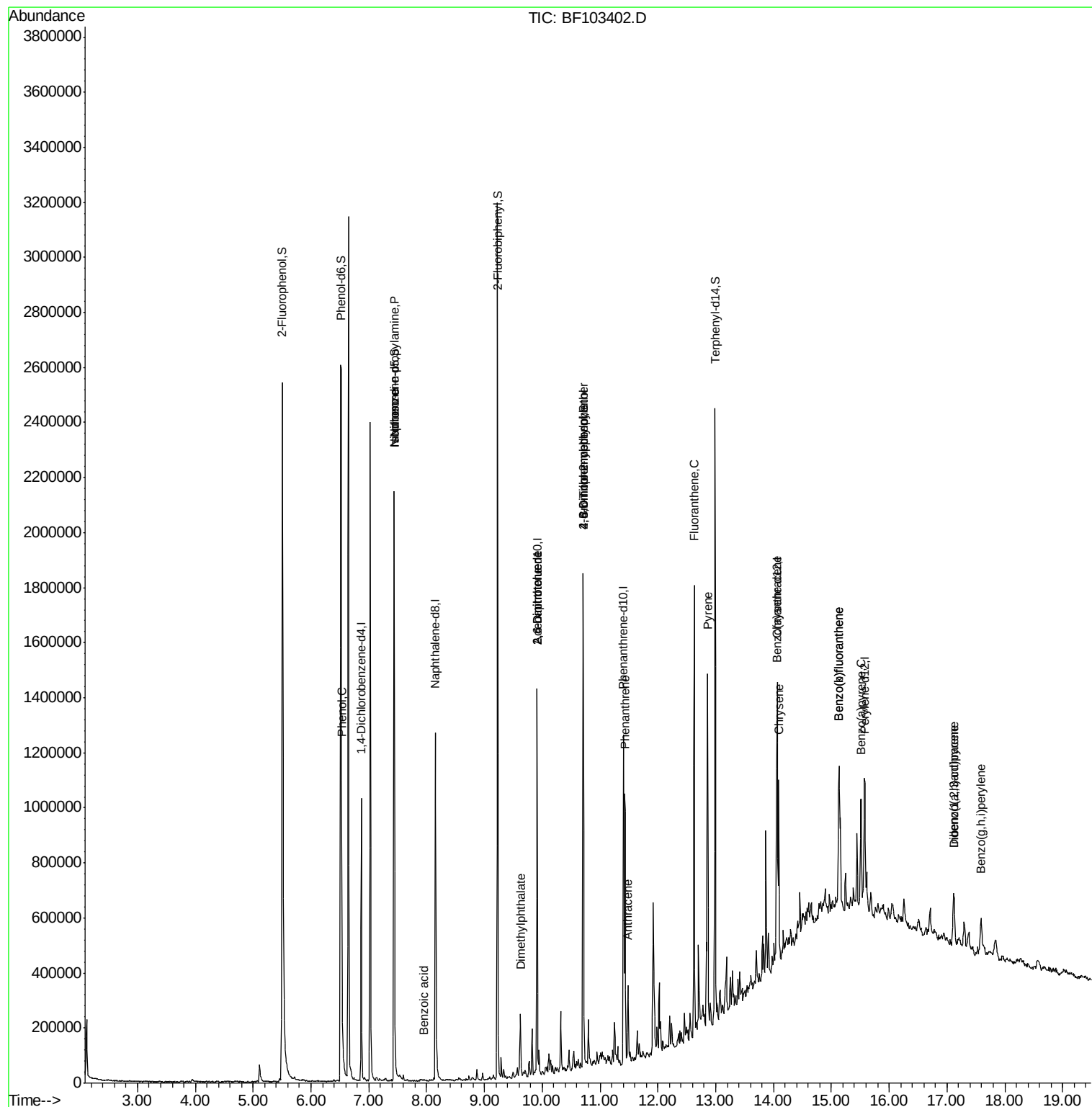
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.45  | 77  | 2309   | Below Cal | # | 84     |
| 10) Phenol                     | 6.53  | 94  | 32316  | 2.441 ng  | # | 65     |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70  | 100246 | 14.124 ng | # | 82     |
| 25) Isophorone                 | 7.44  | 82  | 744917 | 36.557 ng | # | 64     |
| 32) Benzoic acid               | 7.95  | 122 | 124    | 6.931 ng  | # | 86     |
| 49) Dimethylphthalate          | 9.62  | 163 | 82299  | 3.873 ng  |   | 99     |
| 50) 2,6-Dinitrotoluene         | 9.91  | 165 | 34360  | 7.705 ng  | # | 26     |
| 56) 2,4-Dinitrotoluene         | 9.91  | 165 | 34360  | 6.092 ng  | # | 24     |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198 | 346    | 5.063 ng  | # | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248 | 13152  | 2.914 ng  | # | 1      |
| 70) Phenanthrene               | 11.43 | 178 | 359786 | 15.091 ng |   | 99     |
| 71) Anthracene                 | 11.48 | 178 | 102242 | 4.182 ng  |   | 99     |
| 74) Fluoranthene               | 12.63 | 202 | 640313 | 26.727 ng |   | 99     |
| 77) Pyrene                     | 12.86 | 202 | 564860 | 27.847 ng |   | 99     |
| 80) Benzo(a)anthracene         | 14.05 | 228 | 274551 | 16.264 ng |   | 99     |
| 82) Chrysene                   | 14.09 | 228 | 259449 | 15.829 ng |   | 99     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.12 | 276 | 110858 | 8.543 ng  |   | 97     |
| 87) Benzo(b)fluoranthene       | 15.13 | 252 | 412689 | 24.088 ng | # | 94     |
| 88) Benzo(k)fluoranthene       | 15.13 | 252 | 412689 | 25.580 ng |   | 97     |
| 89) Benzo(a)pyrene             | 15.52 | 252 | 212047 | 13.860 ng | # | 92     |
| 90) Dibenzo(a,h)anthracene     | 17.12 | 278 | 31632  | 2.676 ng  | # | 74     |
| 91) Benzo(g,h,i)perylene       | 17.59 | 276 | 102210 | 8.846 ng  |   | 94     |

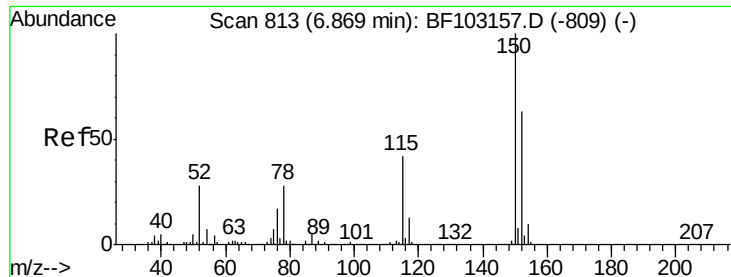
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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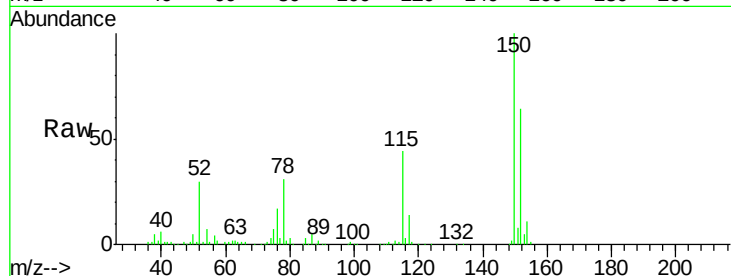


#1

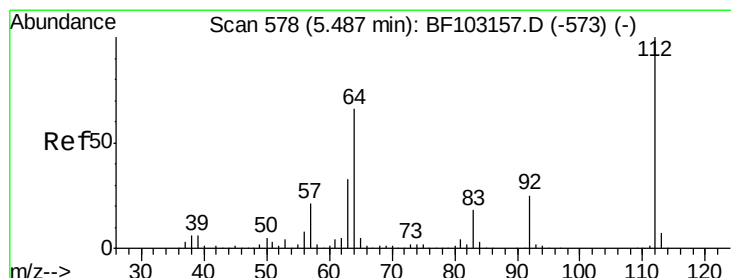
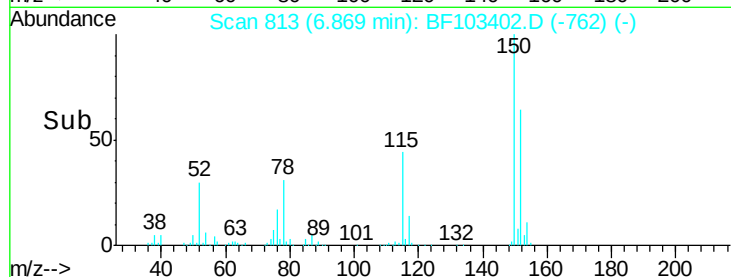
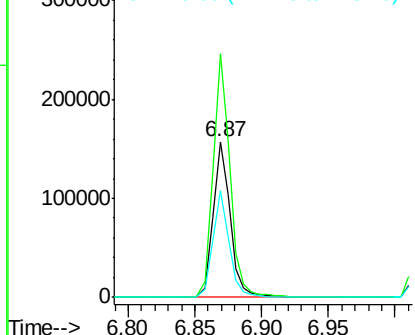
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. 0.00 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 140958  
Ion Ratio Lower Upper  
152 100  
150 156.3 124.6 186.8  
115 68.2 50.1 75.1



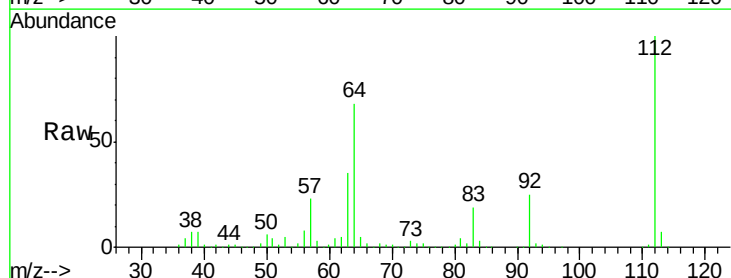
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



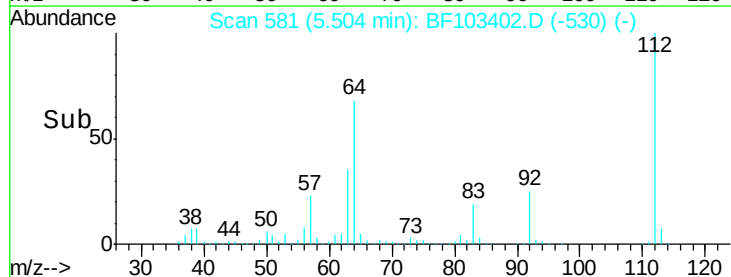
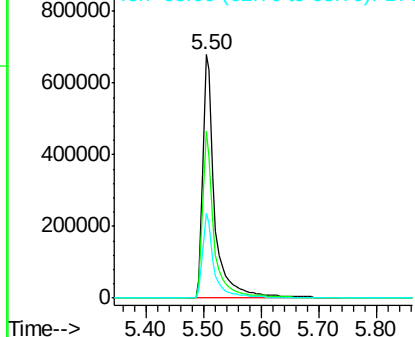
#5

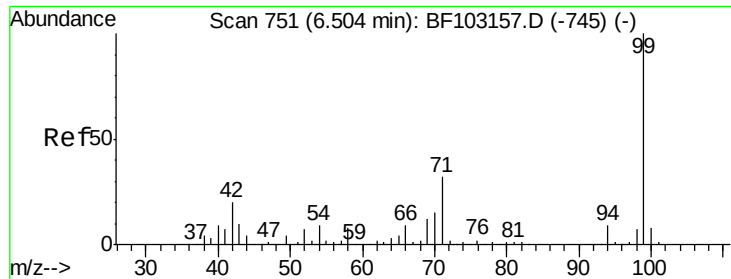
2-Fluorophenol  
Concen: 107.744 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.00 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Tgt Ion:112 Resp: 1004176  
Ion Ratio Lower Upper  
112 100  
64 68.3 47.9 71.9  
63 34.9 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: 104.063 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampled :

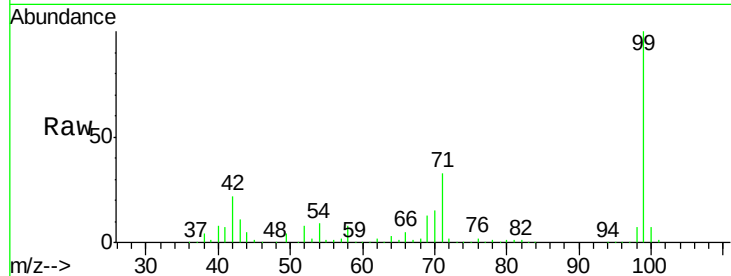
Tot Ion: 99 Resp: 1186776

Ion Ratio Lower Upper

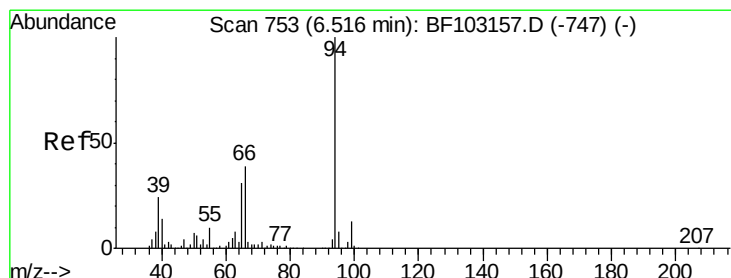
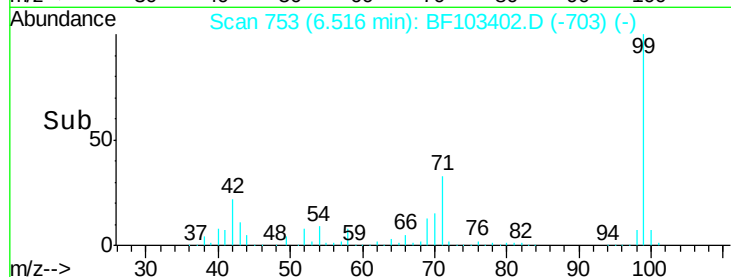
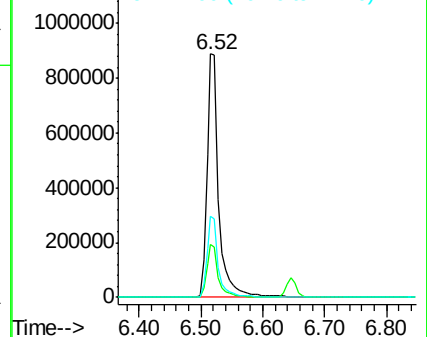
99 100

42 21.9 14.5 21.7#

71 33.4 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: 2.441 ng

RT: 6.53 min Scan# 756

Delta R.T. 0.00 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

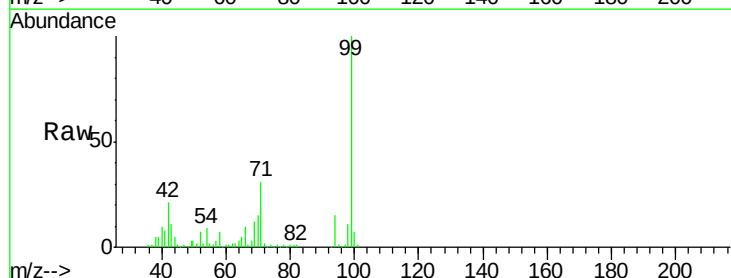
Tgt Ion: 94 Resp: 32316

Ion Ratio Lower Upper

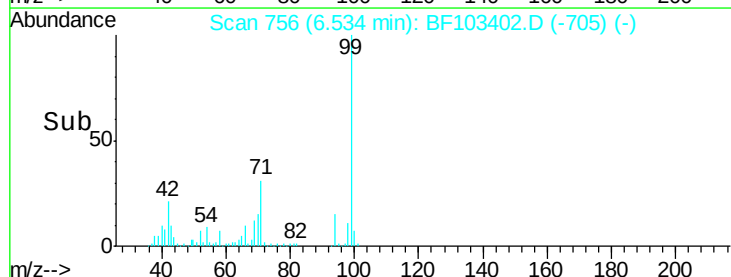
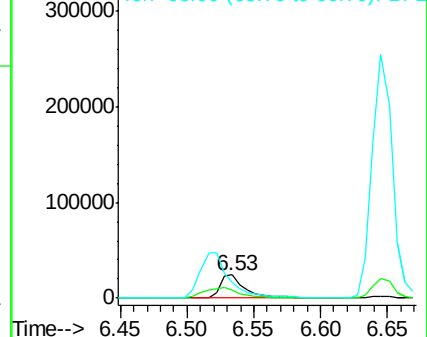
94 100

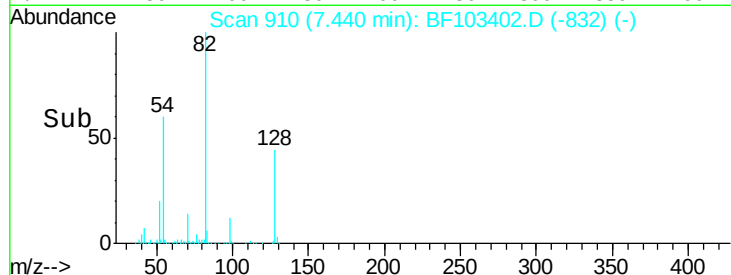
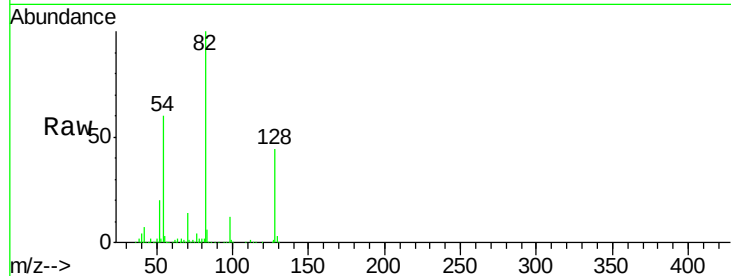
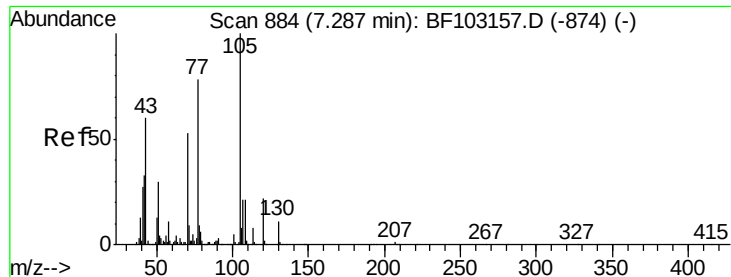
65 33.6 7.9 47.9

66 68.1 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

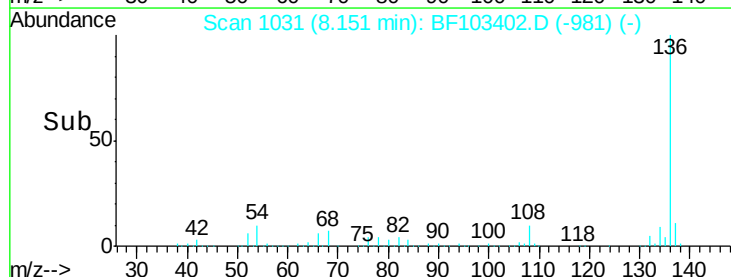
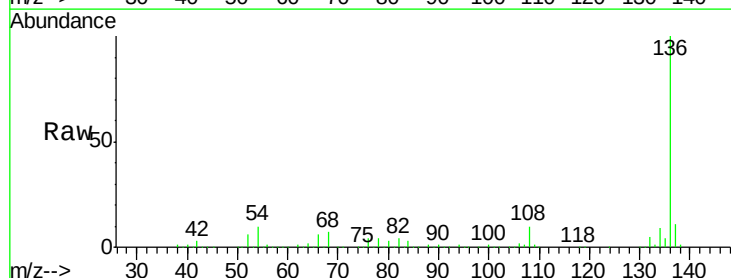
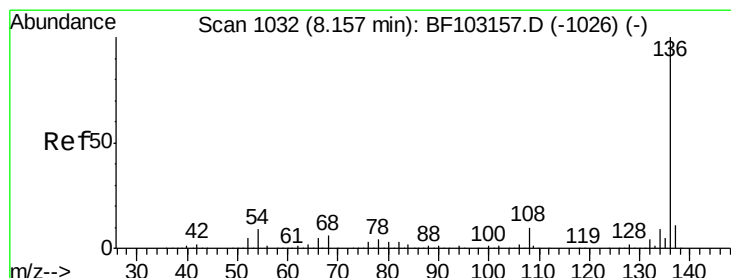
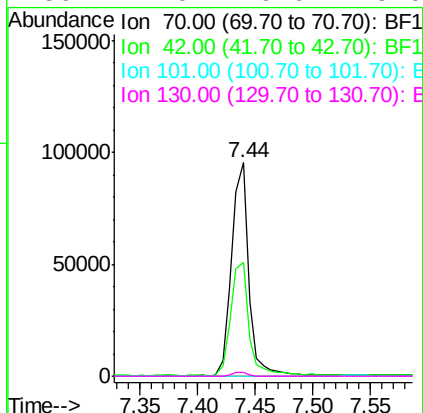




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.124 ng  
RT: 7.44 min Scan# 910  
Delta R.T. 0.16 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

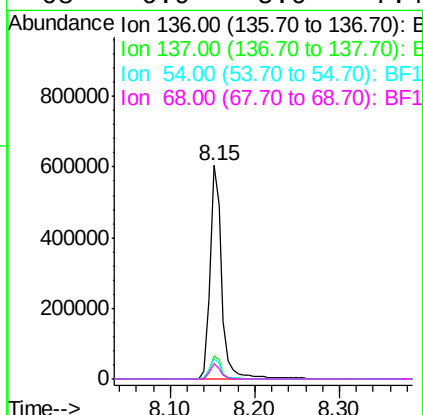
Instrument :  
BNA\_F  
ClientSampleId :

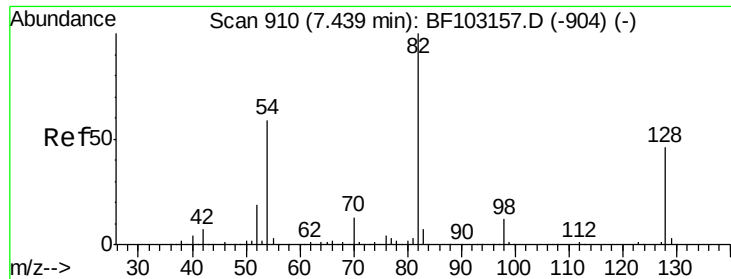
Tot Ion: 70 Resp: 100246  
Ion Ratio Lower Upper  
70 100  
42 53.1 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.0 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Tgt Ion: 136 Resp: 590853  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.9 13.3  
54 9.8 6.6 9.8  
68 6.9 5.0 7.4

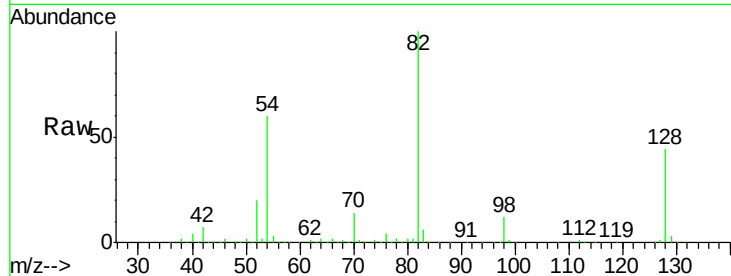




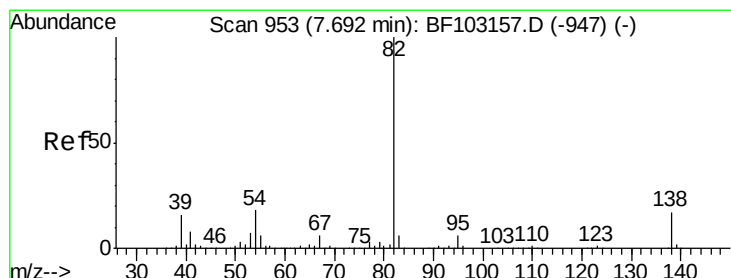
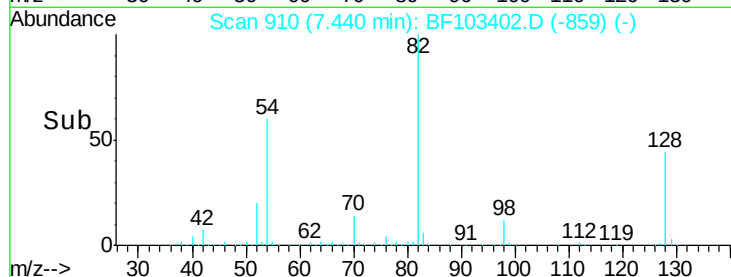
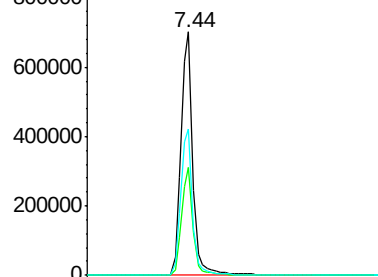
#23  
 Nitrobenzene-d5  
 Concen: 71.999 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. 0.00 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion: 82 Resp: 744917  
 Ion Ratio Lower Upper  
 82 100  
 128 44.3 36.1 54.1  
 54 59.9 41.4 62.2

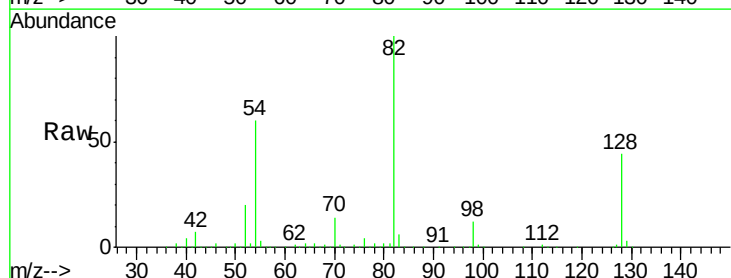


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

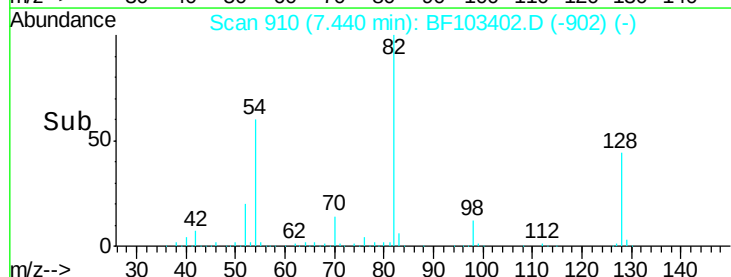
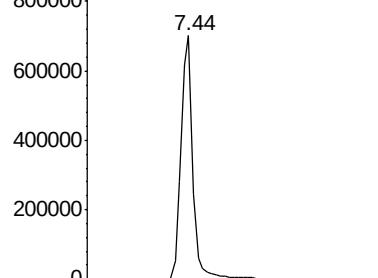


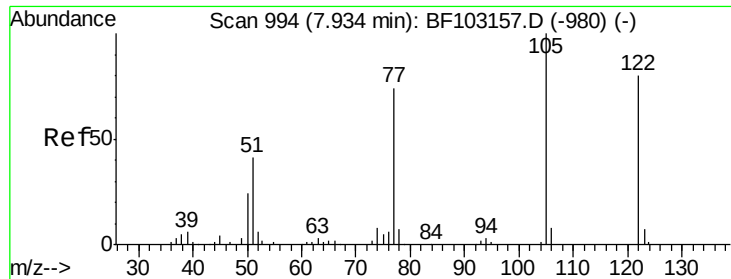
#25  
 Isophorone  
 Concen: 36.557 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. -0.25 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

Tgt Ion: 82 Resp: 744917  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.2 7.8#  
 138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1

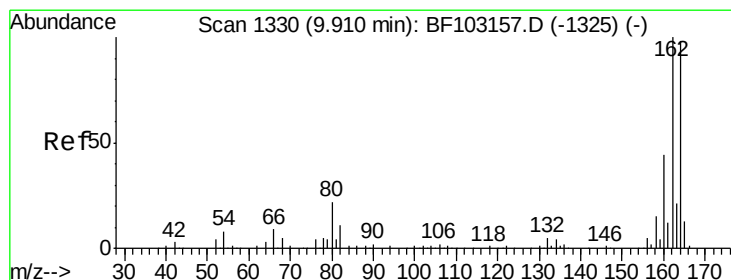
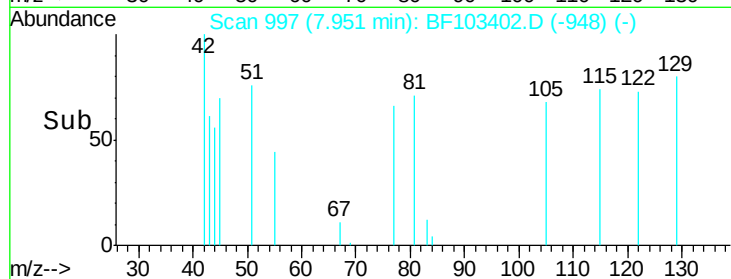
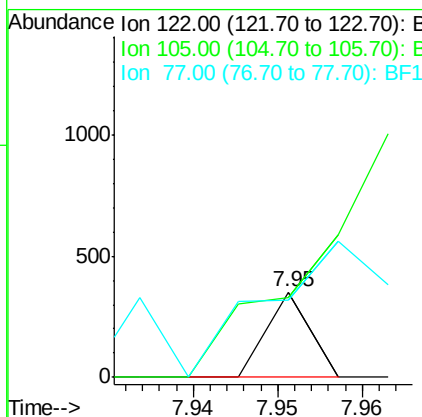
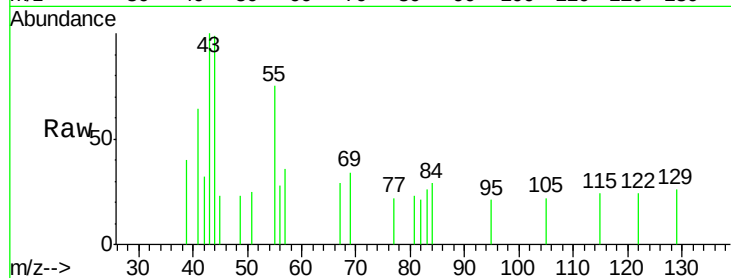




#32  
Benzoic acid  
Concen: 6.931 ng  
RT: 7.95 min Scan# 997  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

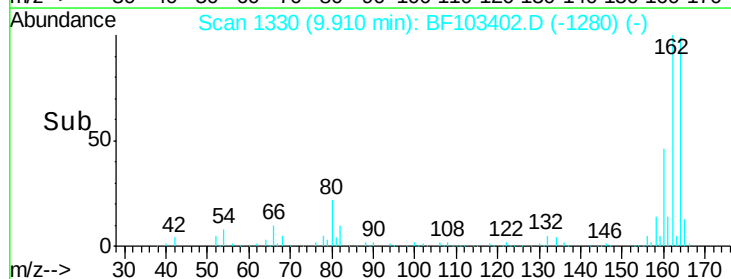
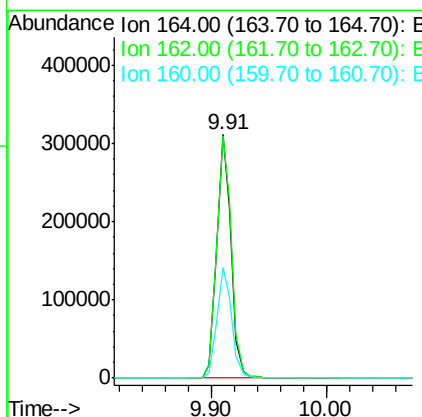
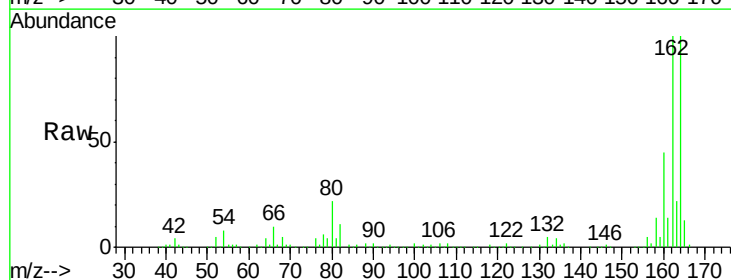
Instrument :  
BNA\_F  
ClientSampleId :

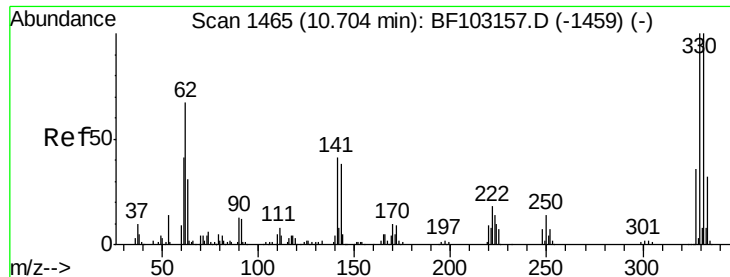
Tot Ion:122 Resp: 124  
Ion Ratio Lower Upper  
122 100  
105 93.4 101.1 141.1#  
77 90.6 70.7 110.7



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Tgt Ion:164 Resp: 264900  
Ion Ratio Lower Upper  
164 100  
162 99.5 86.1 129.1  
160 45.4 38.3 57.5

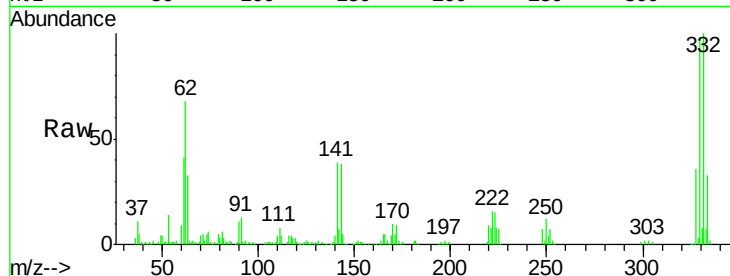




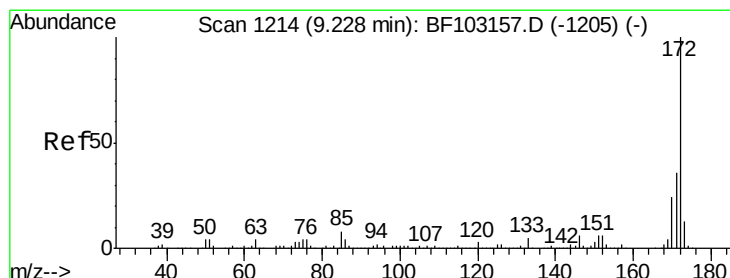
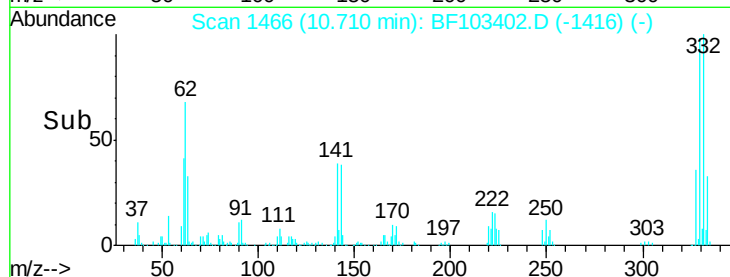
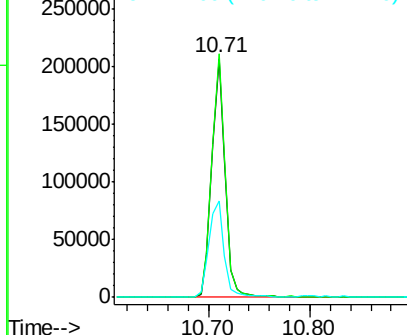
#41  
 2,4,6-Tribromophenol  
 Concen: 86.077 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 102.0 | 77.0  | 115.6 |
| 141     | 43.9  | 29.9  | 44.9  |

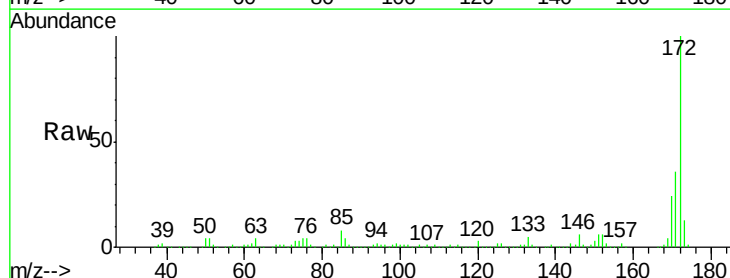


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

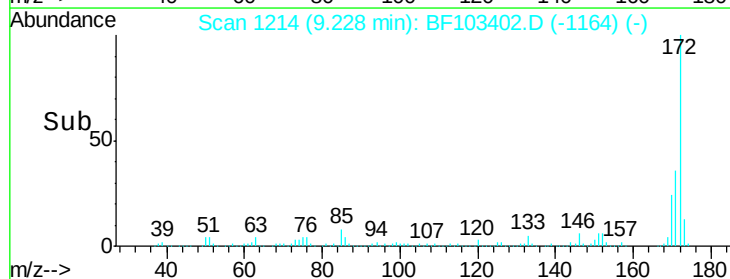
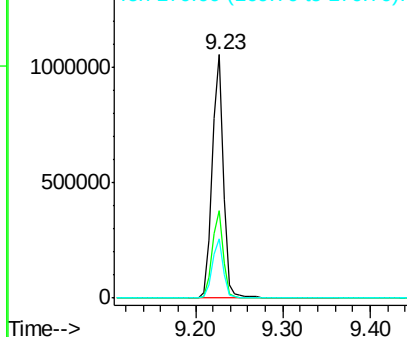


#44  
 2-Fluorobiphenyl  
 Concen: 56.196 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

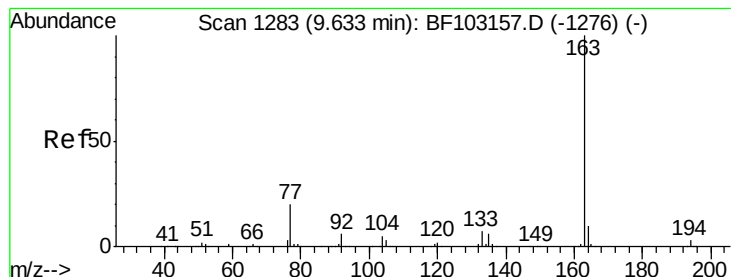
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.7  | 44.5  |
| 170     | 24.4  | 19.6  | 29.4  |



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







#49

Dimethylphthalate

Concen: 3.873 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

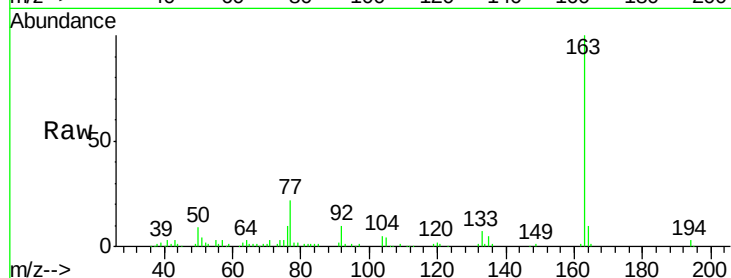
Tot Ion:163 Resp: 82299

Ion Ratio Lower Upper

163 100

194 3.0 2.7 4.1

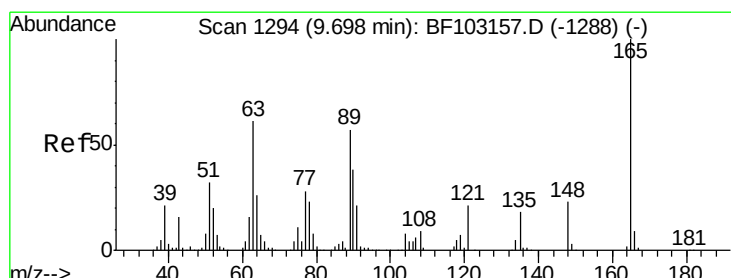
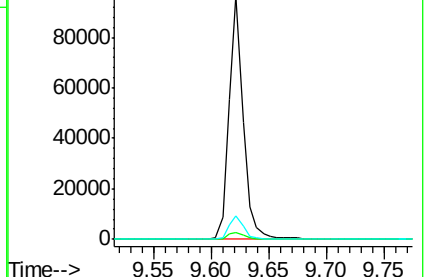
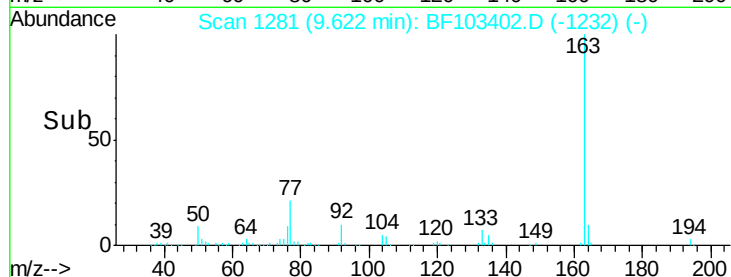
164 9.8 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 7.705 ng

RT: 9.91 min Scan# 1330

Delta R.T. 0.21 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

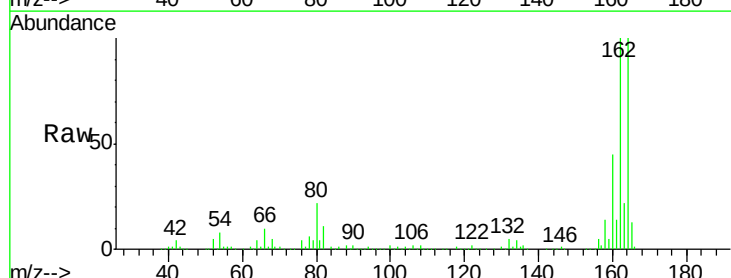
Tgt Ion:165 Resp: 34360

Ion Ratio Lower Upper

165 100

63 1.8 44.7 67.1#

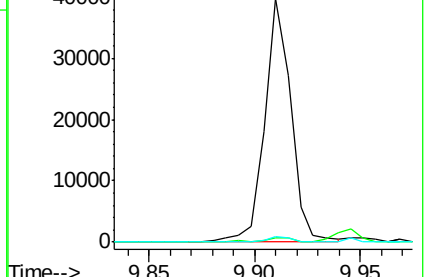
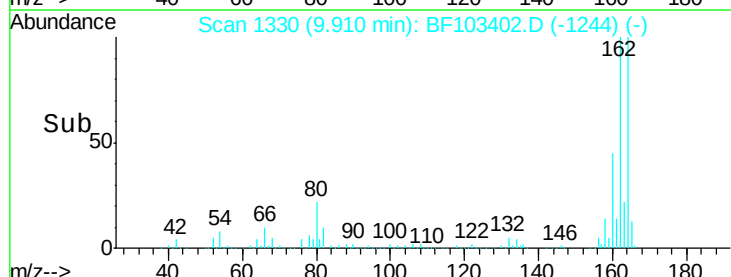
89 2.1 44.0 66.0#

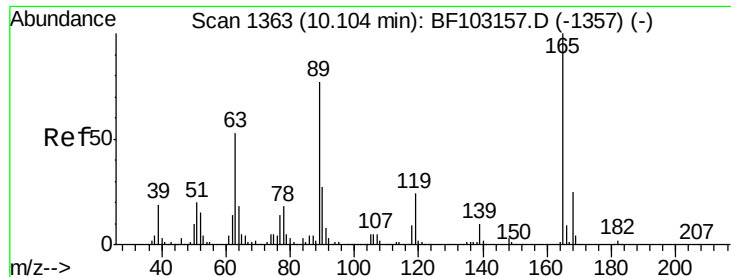


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

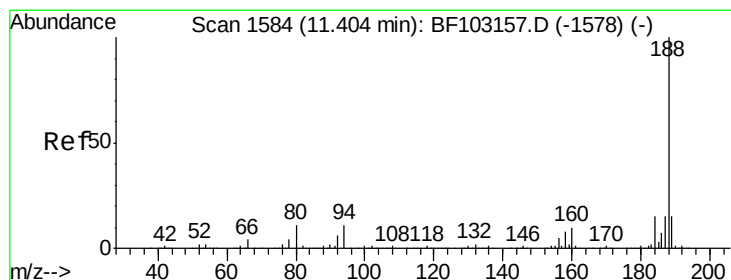
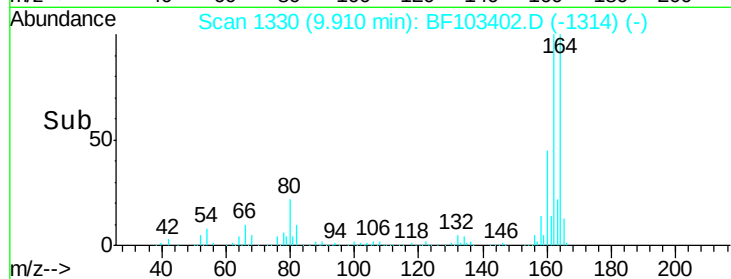
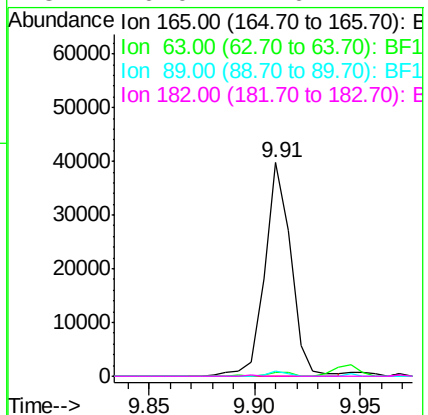
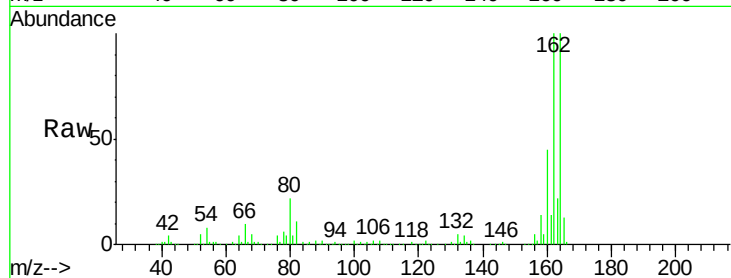




#56  
 2,4-Dinitrotoluene  
 Concen: 6.092 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.21 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

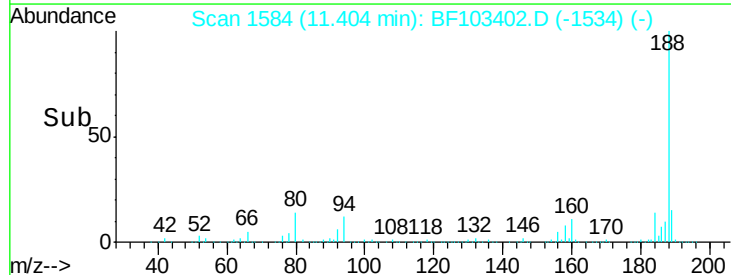
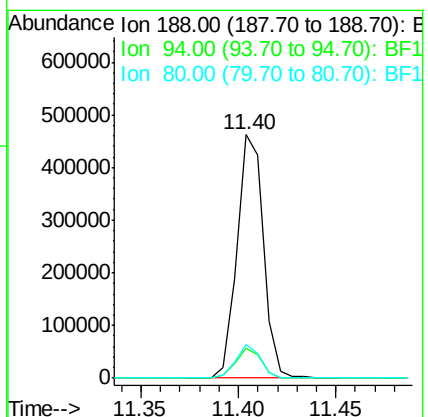
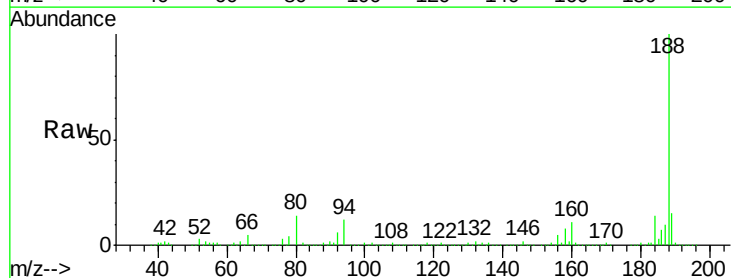
Instrument :  
 BNA\_F  
 ClientSampleId :

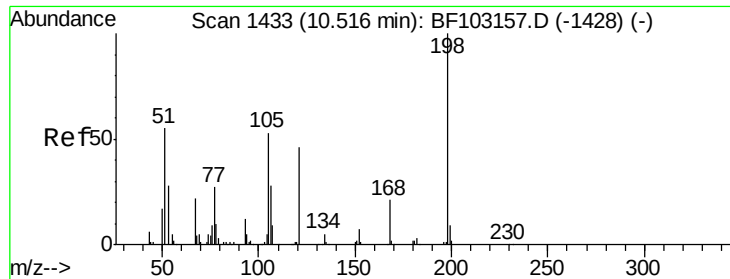
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 34360 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.8   | 36.4  | 54.6# |
| 89       | 2.1   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 433217 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 12.1  | 8.5   | 12.7   |
| 80       | 13.9  | 9.2   | 13.8#  |





#64

4,6-Dinitro-2-methylphenol

Concen: 5.063 ng

RT: 10.70 min Scan# 1465

Delta R.T. 0.17 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

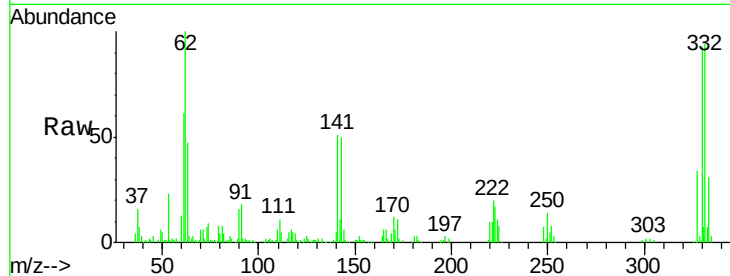
Tot Ion:198 Resp: 346

Ion Ratio Lower Upper

198 100

51 291.7 37.7 77.7#

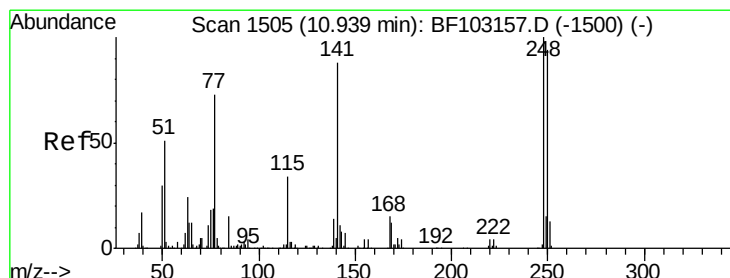
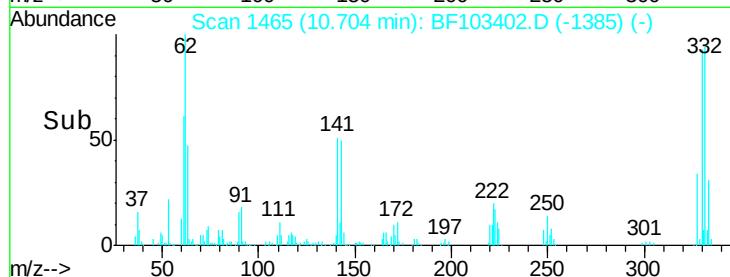
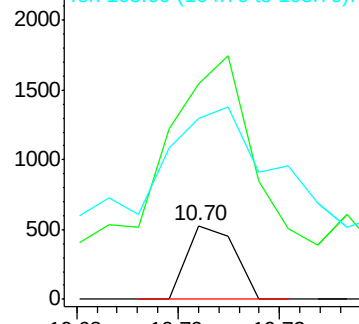
105 244.9 36.3 76.3#



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: 2.914 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.24 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

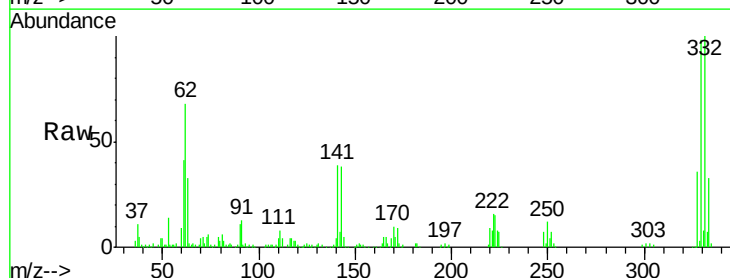
Tgt Ion:248 Resp: 13152

Ion Ratio Lower Upper

248 100

250 189.5 76.9 115.3#

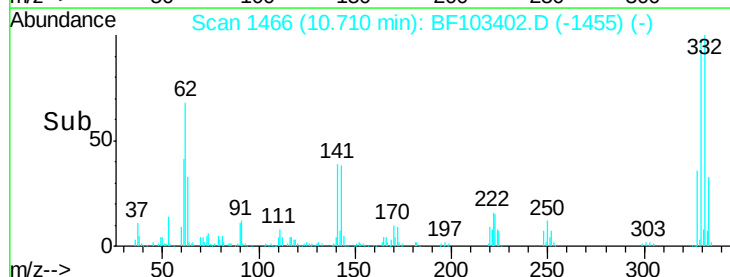
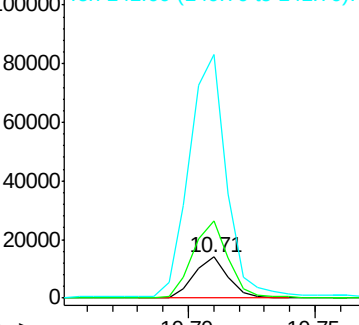
141 597.5 74.4 111.6#

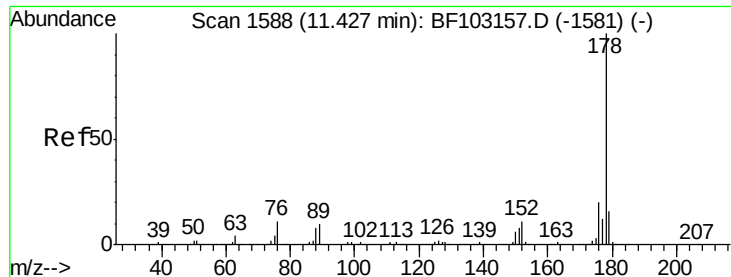


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

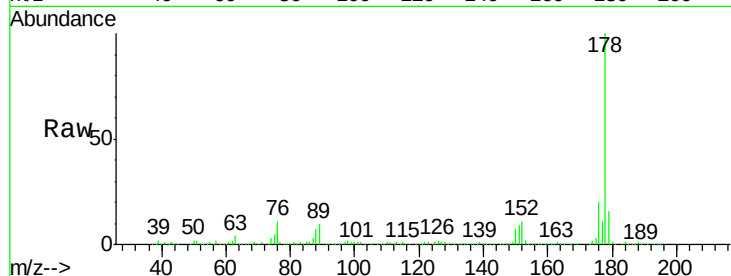




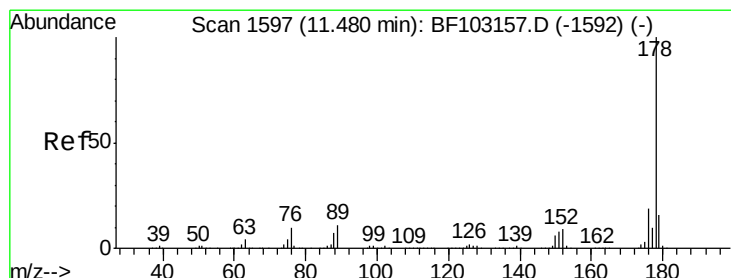
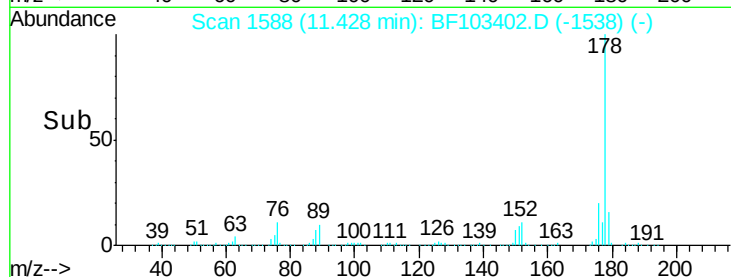
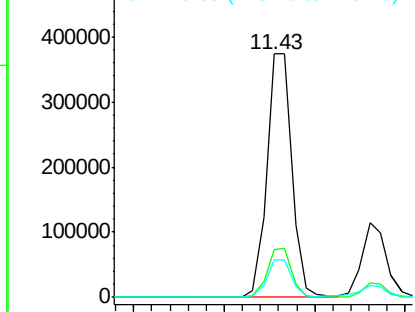
#70  
Phenanthrene  
Concen: 15.091 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:178 Resp: 359786  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.8 23.8  
179 15.5 13.0 19.6

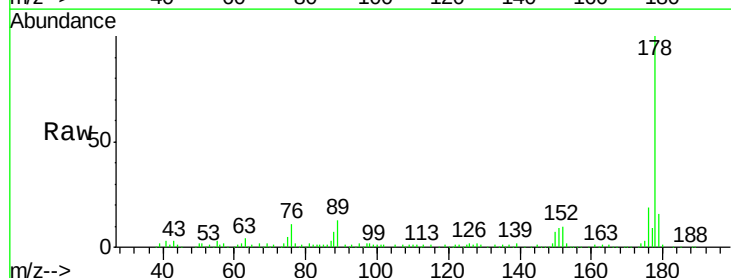


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

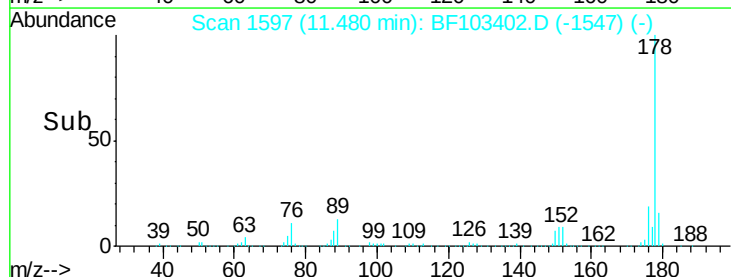
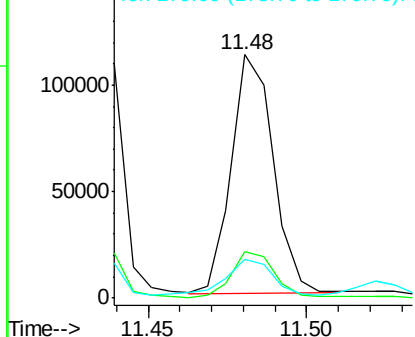


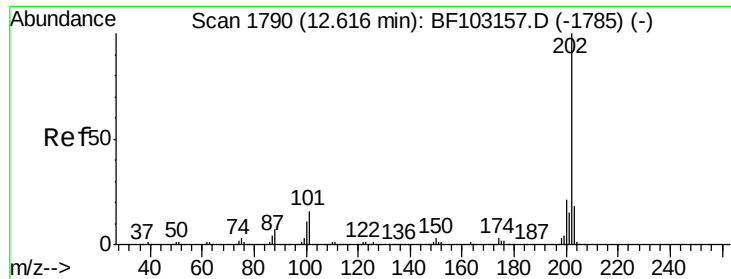
#71  
Anthracene  
Concen: 4.182 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Tgt Ion:178 Resp: 102242  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 16.2 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





#74

Fluoranthene

Concen: 26.727 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

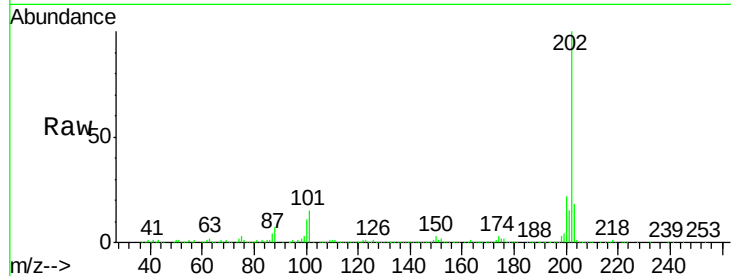
Tot Ion:202 Resp: 640313

Ion Ratio Lower Upper

202 100

101 15.2 0.0 34.1

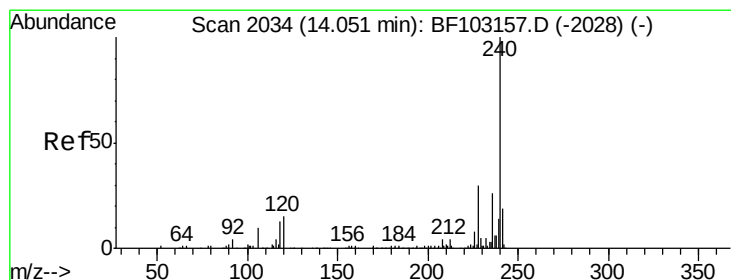
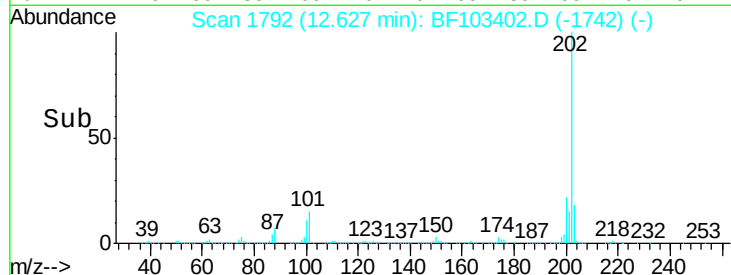
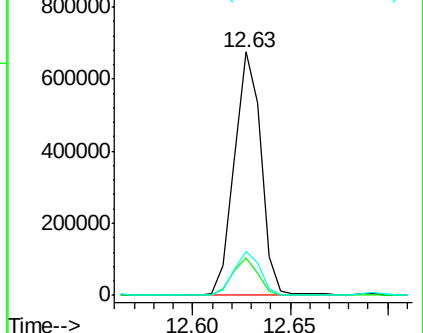
203 18.0 0.0 38.1



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# 2036

Delta R.T. -0.01 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

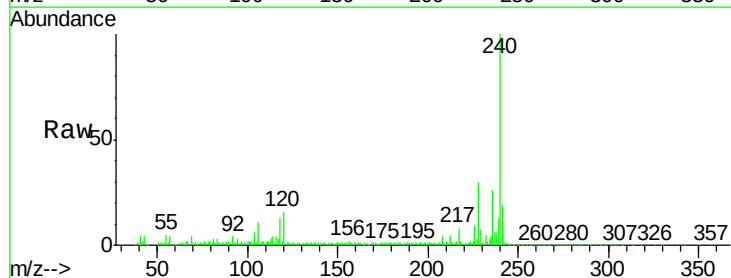
Tgt Ion:240 Resp: 260173

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

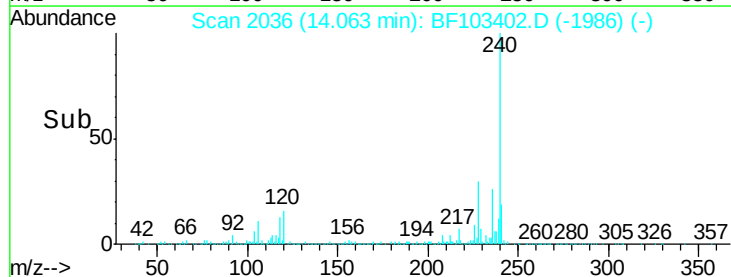
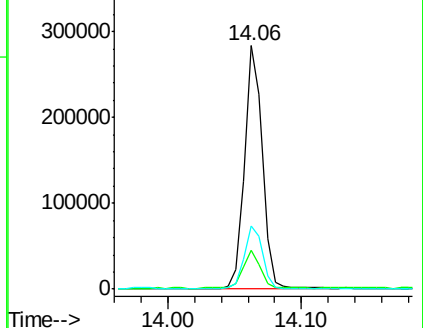
236 26.0 20.7 31.1

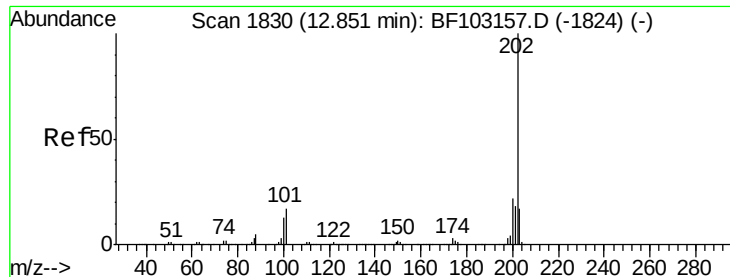


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 27.847 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.00 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

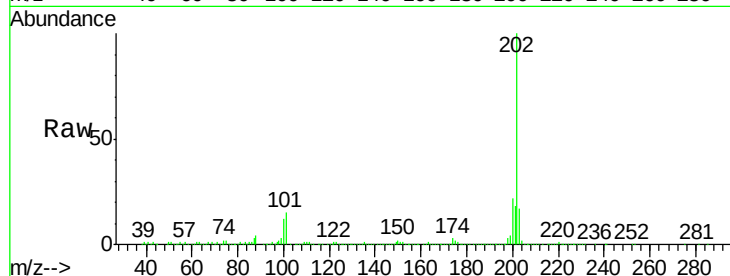
Tot Ion:202 Resp: 564860

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

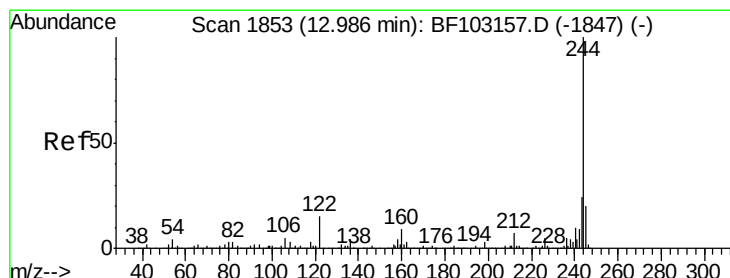
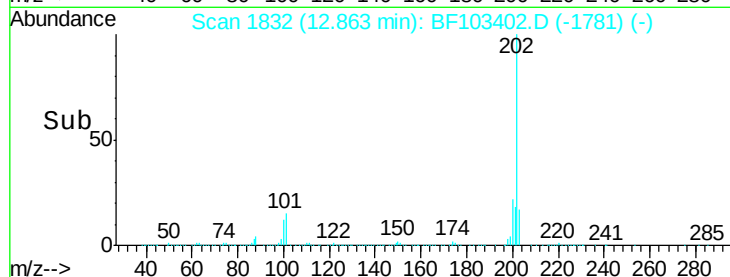
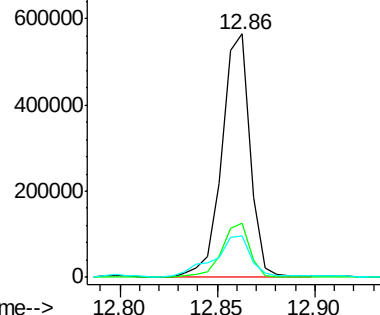
203 17.1 14.3 21.5



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: 66.848 ng

RT: 12.99 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

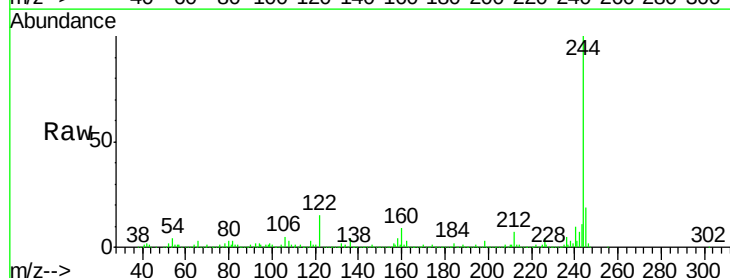
Tgt Ion:244 Resp: 723504

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

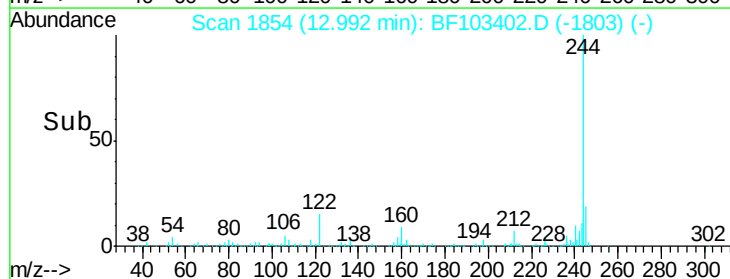
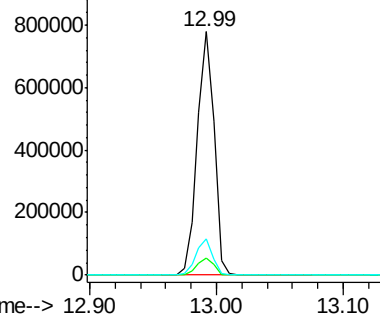
122 14.8 11.0 16.4

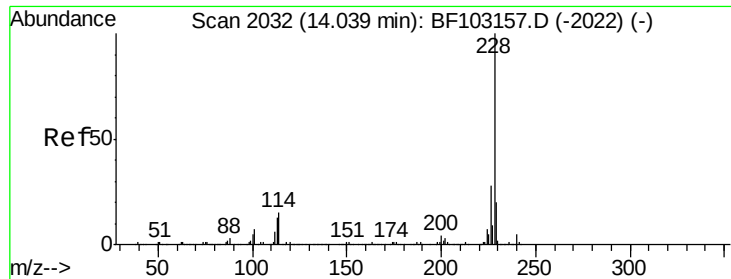


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

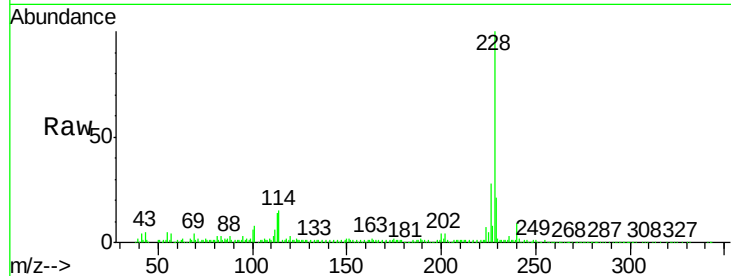




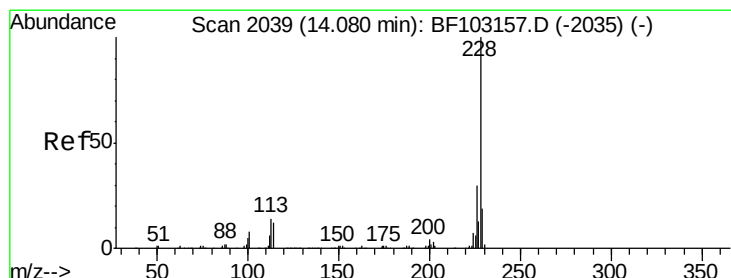
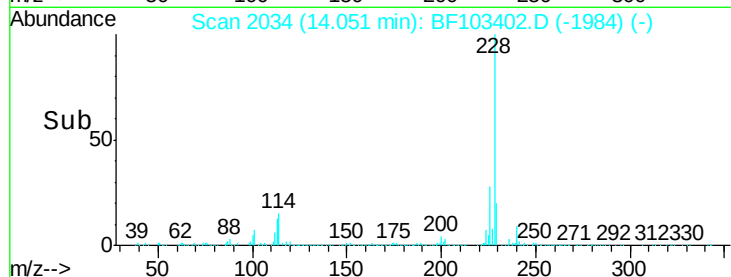
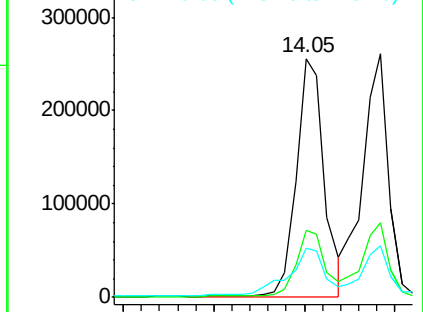
#80  
Benzo(a)anthracene  
Concen: 16.264 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:228 Resp: 274551  
Ion Ratio Lower Upper  
228 100  
226 28.3 22.6 33.8  
229 20.8 15.8 23.6

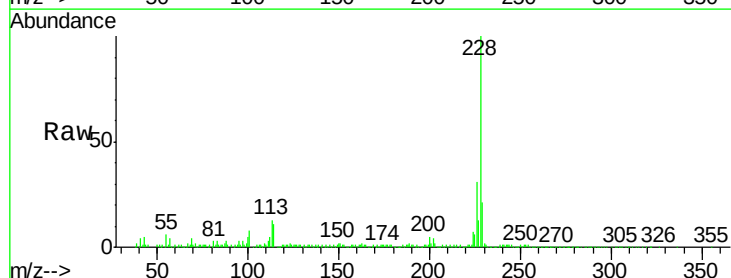


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

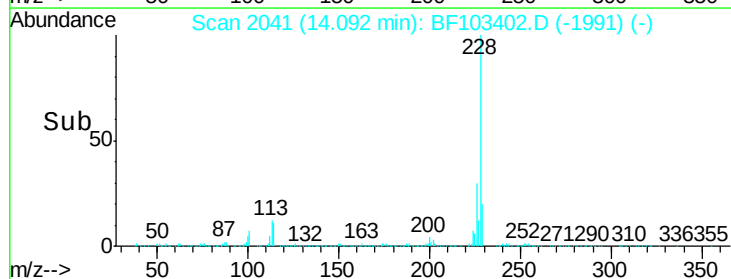
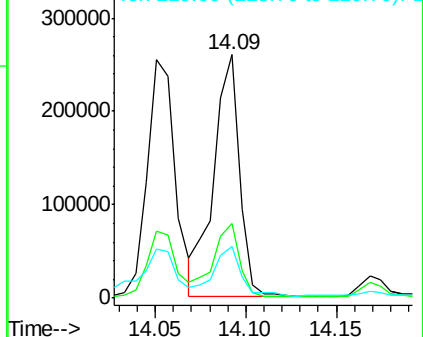


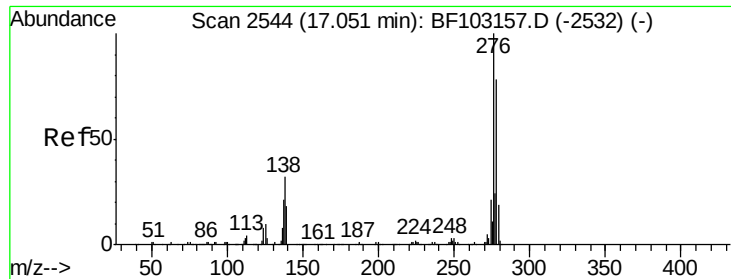
#82  
Chrysene  
Concen: 15.829 ng  
RT: 14.09 min Scan# 2041  
Delta R.T. -0.01 min  
Lab File: BF103402.D  
Acq: 5 Mar 2018 11:57

Tgt Ion:228 Resp: 259449  
Ion Ratio Lower Upper  
228 100  
226 30.7 25.0 37.6  
229 21.3 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

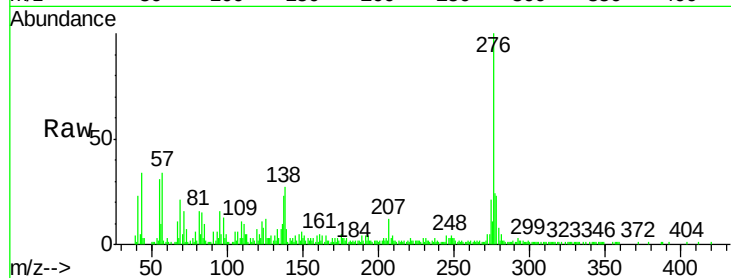




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.543 ng  
 RT: 17.12 min Scan# 2556  
 Delta R.T. -0.01 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.1  | 25.0  | 37.6  |
| 277     | 25.4  | 20.1  | 30.1  |

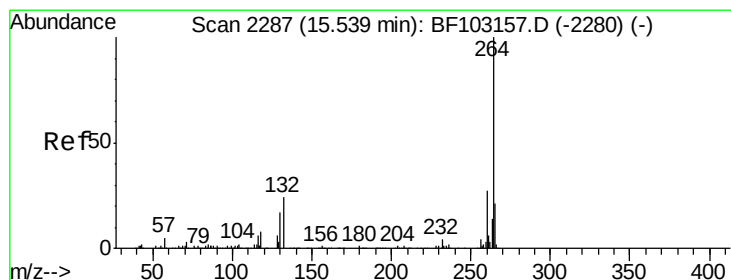
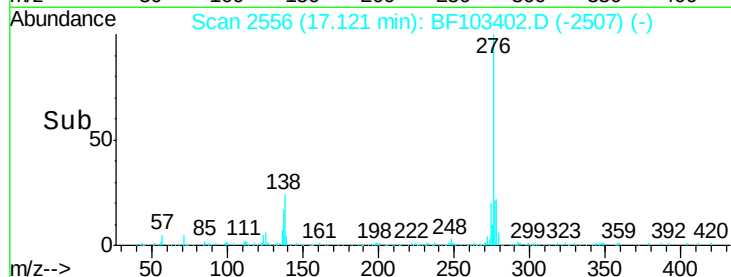
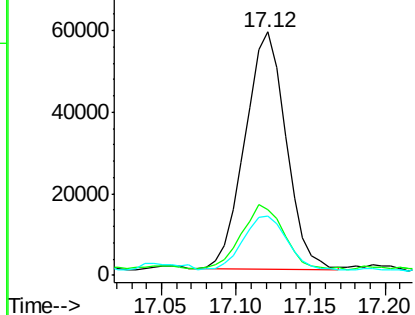


Abundance

Ion 276.00 (275.70 to 276.70): E

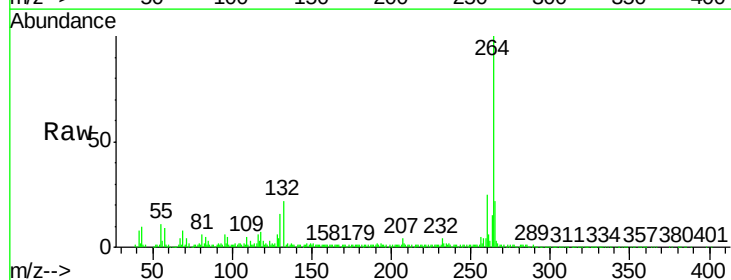
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.58 min Scan# 2294  
 Delta R.T. 0.01 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 19.2  | 28.8  |
| 265     | 22.3  | 17.5  | 26.3  |

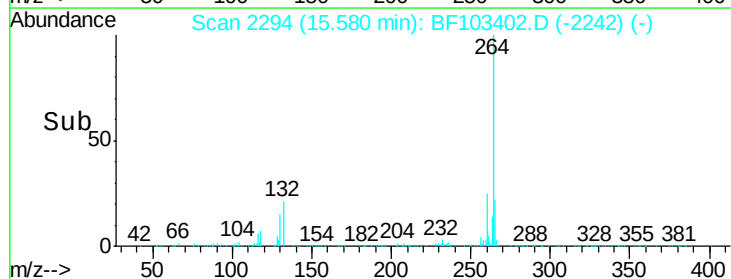
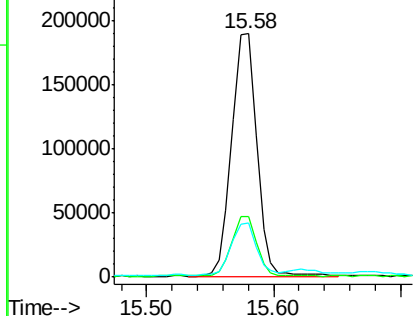


Abundance

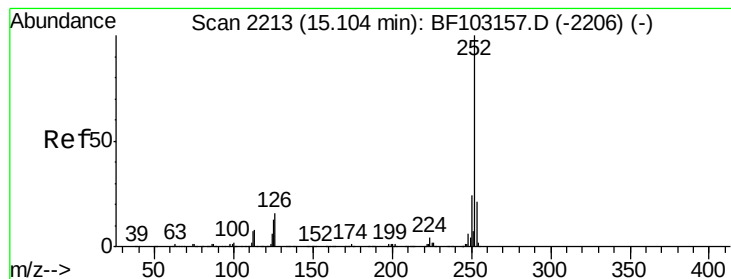
Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E







#87

Benzo(b)fluoranthene

Concen: 24.088 ng

RT: 15.13 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

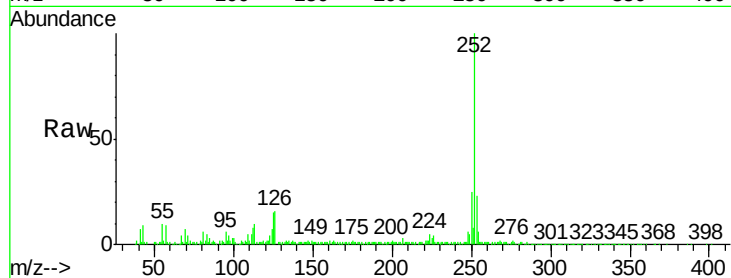
Tot Ion:252 Resp: 412689

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

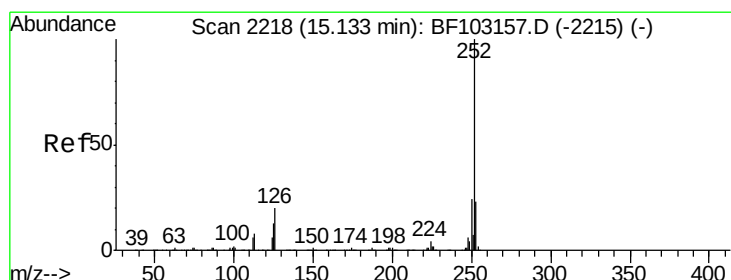
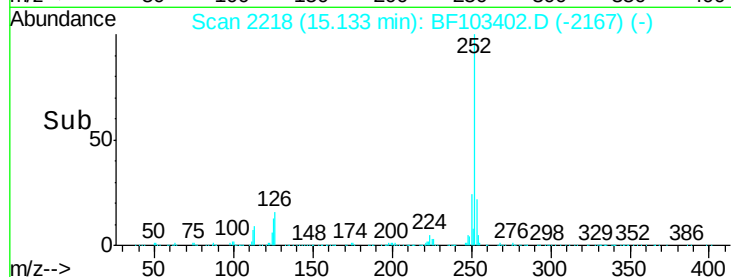
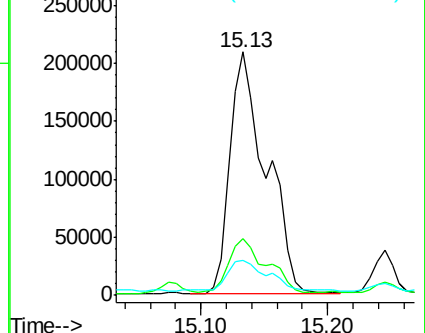
125 14.6 9.0 13.6#



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: 25.580 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.03 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

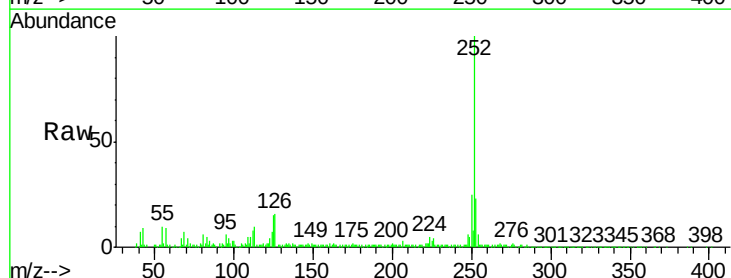
Tgt Ion:252 Resp: 412689

Ion Ratio Lower Upper

252 100

253 23.4 17.9 26.9

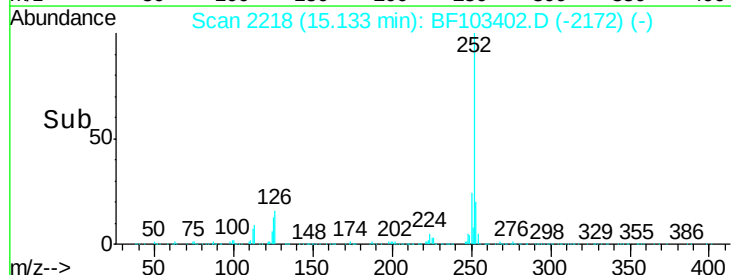
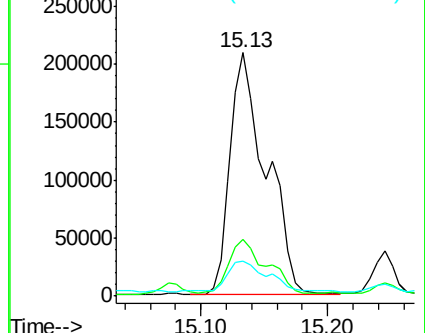
125 14.6 10.2 15.2

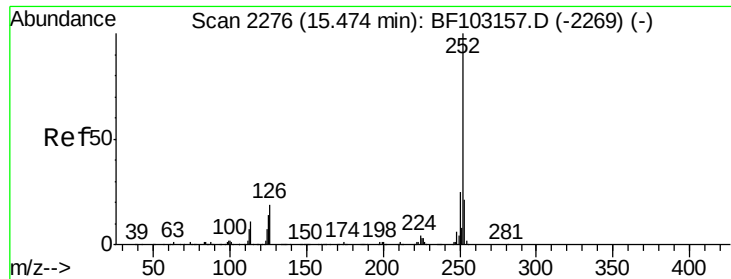


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.860 ng

RT: 15.52 min Scan# 2283

Delta R.T. 0.00 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

Instrument :

BNA\_F

ClientSampleId :

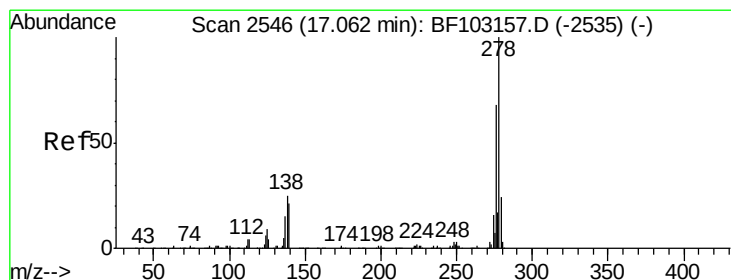
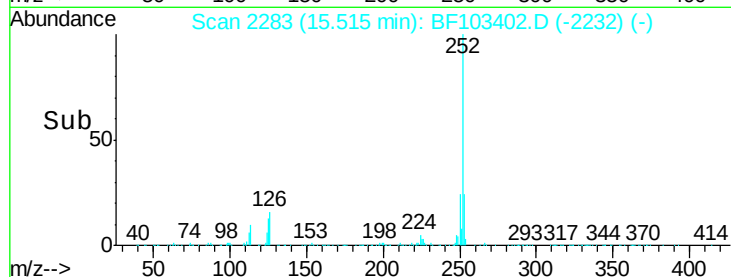
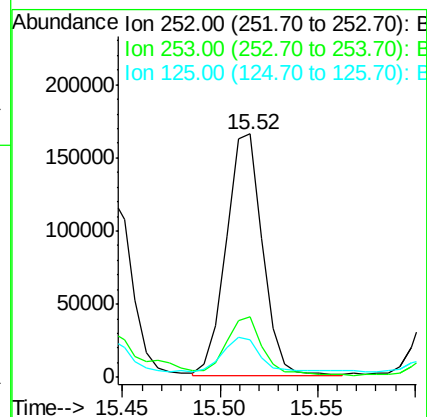
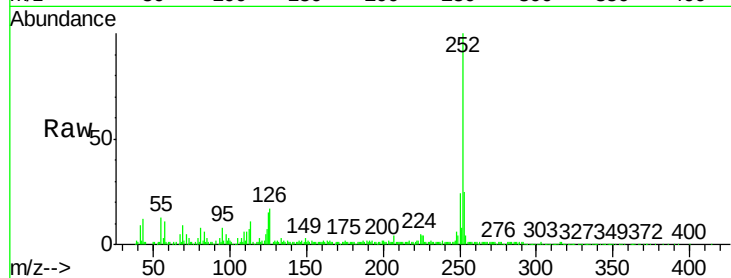
Tot Ion:252 Resp: 212047

Ion Ratio Lower Upper

252 100

253 24.8 17.1 25.7

125 15.4 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 2.676 ng

RT: 17.12 min Scan# 2555

Delta R.T. -0.02 min

Lab File: BF103402.D

Acq: 5 Mar 2018 11:57

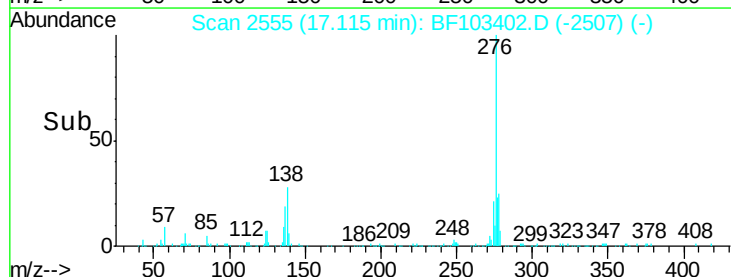
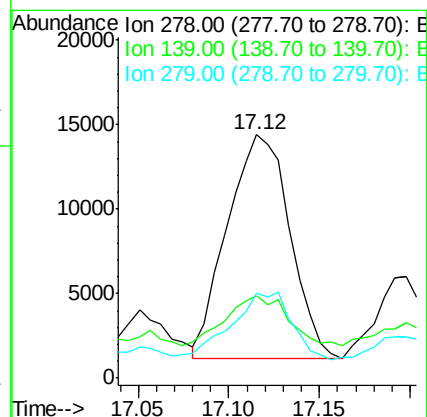
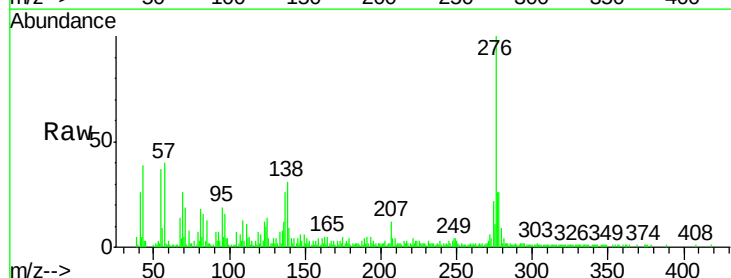
Tgt Ion:278 Resp: 31632

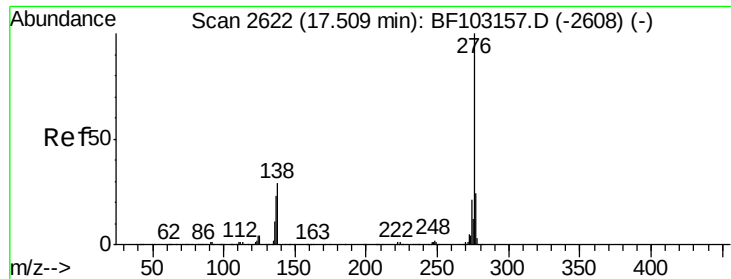
Ion Ratio Lower Upper

278 100

139 34.0 15.9 23.9#

279 34.7 19.0 28.4#

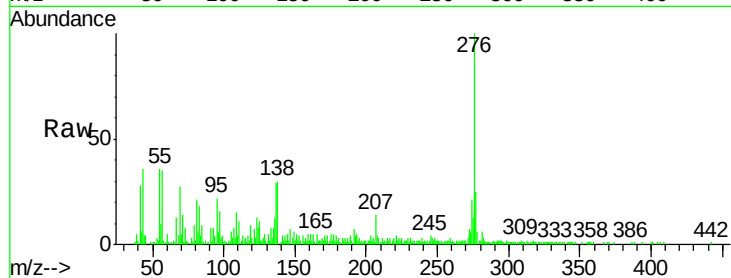




#91  
 Benzo(a,h,i)perylene  
 Concen: 8.846 ng  
 RT: 17.59 min Scan# 2636  
 Delta R.T. 0.00 min  
 Lab File: BF103402.D  
 Acq: 5 Mar 2018 11:57

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.3  | 17.9  | 26.9  |
| 138     | 30.3  | 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

