

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030918\  
 Data File : BF103557.D  
 Acq On : 9 Mar 2018 15:19  
 Operator : SJ/JU  
 Sample : J1853-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 09 16:27:13 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 09 11:47:13 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 157132   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 649730   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 263934   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 367165   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 229598   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.58 | 264  | 187040   | 20.00 | ng    | 0.01     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 1028213 | 98.97  | ng | 0.00 |
| 7) Phenol-d6             | 6.50  | 99  | 1297152 | 102.03 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 821065  | 72.17  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 164596  | 73.68  | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.22  | 172 | 1011909 | 61.80  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 629288  | 65.89  | ng | 0.00 |

## Target Compounds

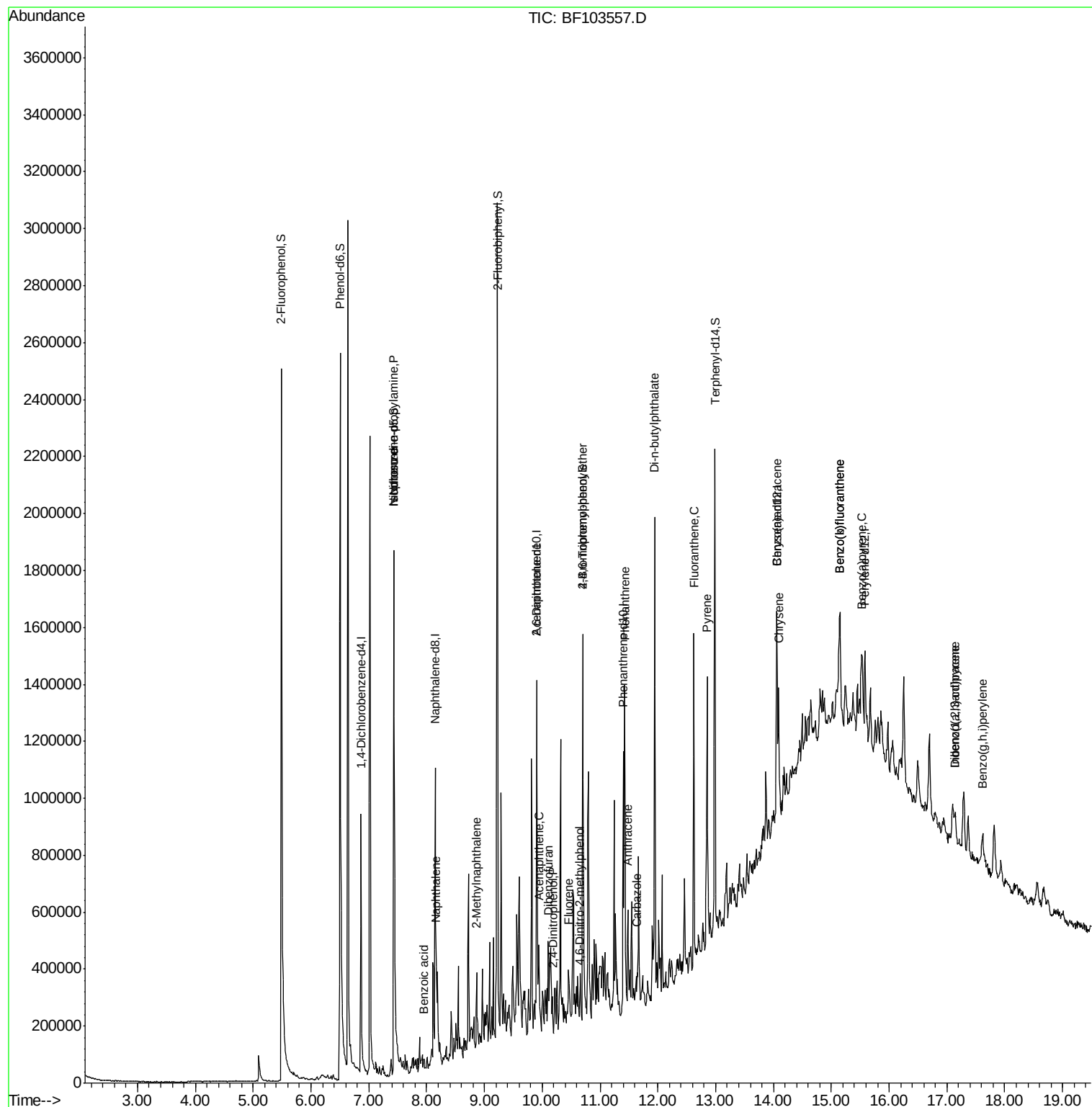
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.50  | 77  | 2883   | Below Cal | # | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70  | 110666 | 13.987 ng | # | 83     |
| 25) Isophorone                 | 7.43  | 82  | 821065 | 36.643 ng | # | 64     |
| 31) Naphthalene                | 8.17  | 128 | 83082  | 2.612 ng  |   | 98     |
| 32) Benzoic acid               | 7.95  | 122 | 124    | 6.930 ng  | # | 1      |
| 37) 2-Methylnaphthalene        | 8.86  | 142 | 101132 | 4.919 ng  |   | 97     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165 | 36911  | 8.307 ng  | # | 27     |
| 51) Acenaphthene               | 9.94  | 154 | 51057  | 3.252 ng  |   | 95     |
| 53) 2,4-Dinitrophenol          | 10.19 | 184 | 783    | 10.050 ng | # | 21     |
| 54) Dibenzofuran               | 10.12 | 168 | 51720  | 2.400 ng  | # | 92     |
| 57) Fluorene                   | 10.46 | 166 | 61310  | 3.340 ng  | # | 98     |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198 | 134    | 4.999 ng  | # | 1      |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248 | 11342  | 2.965 ng  | # | 1      |
| 70) Phenanthrene               | 11.43 | 178 | 466829 | 23.103 ng |   | 99     |
| 71) Anthracene                 | 11.48 | 178 | 154676 | 7.465 ng  |   | 97     |
| 72) Carbazole                  | 11.65 | 167 | 47706  | 2.312 ng  | # | 95     |
| 73) Di-n-butylphthalate        | 11.95 | 149 | 804248 | 31.149 ng |   | 99     |
| 74) Fluoranthene               | 12.62 | 202 | 494630 | 24.360 ng |   | 99     |
| 77) Pyrene                     | 12.86 | 202 | 449751 | 25.125 ng |   | 98     |
| 80) Benzo(a)anthracene         | 14.05 | 228 | 226403 | 15.198 ng |   | 97     |
| 82) Chrysene                   | 14.09 | 228 | 190856 | 13.195 ng |   | 95     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.14 | 276 | 80058  | 6.991 ng  | # | 91     |
| 87) Benzo(b)fluoranthene       | 15.13 | 252 | 276818 | 22.510 ng | # | 87     |
| 88) Benzo(k)fluoranthene       | 15.13 | 252 | 276818 | 23.904 ng | # | 90     |
| 89) Benzo(a)pyrene             | 15.52 | 252 | 156223 | 14.226 ng | # | 87     |
| 90) Dibenzo(a,h)anthracene     | 17.13 | 278 | 17646  | 2.079 ng  | # | 34     |
| 91) Benzo(g,h,i)perylene       | 17.62 | 276 | 94067  | 11.342 ng | # | 90     |

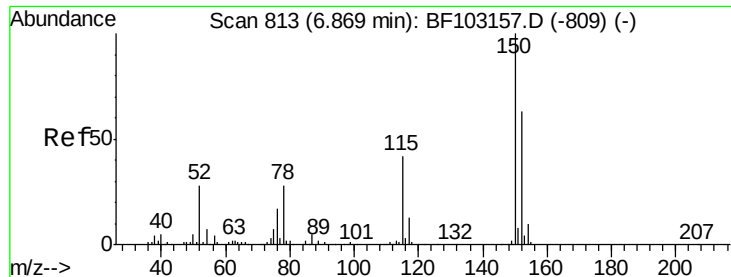
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030918\  
Data File : BF103557.D  
Acq On : 9 Mar 2018 15:19  
Operator : SJ/JU  
Sample : J1853-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 09 16:27:13 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 09 11:47:13 2018  
Response via : Initial Calibration



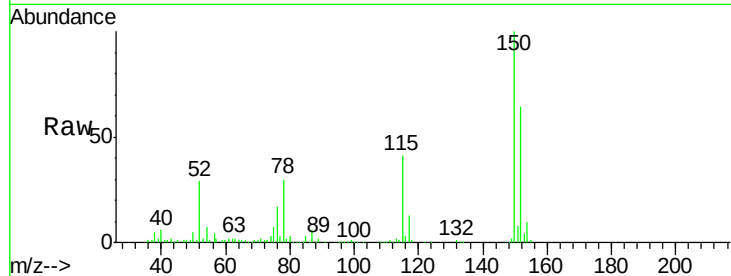


#1

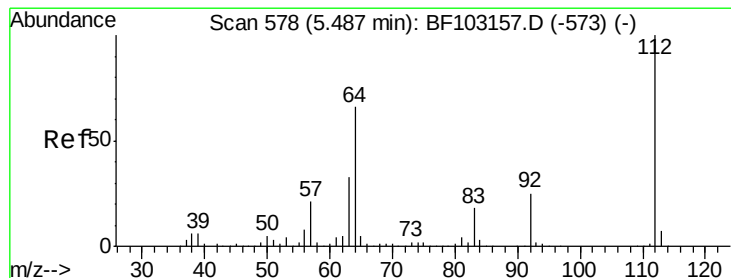
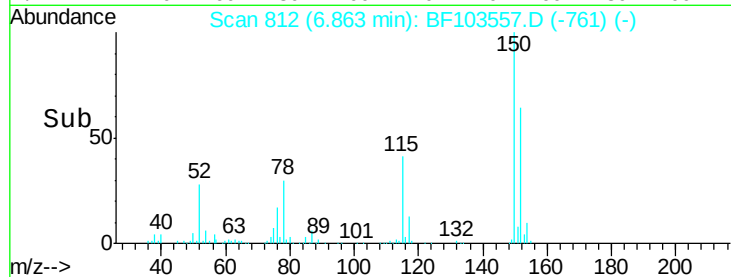
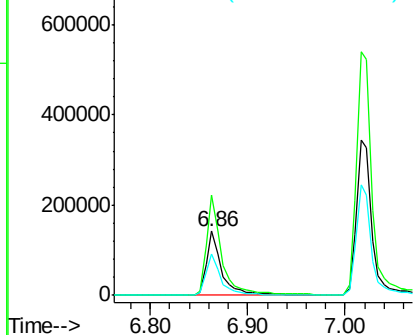
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 157132  
Ion Ratio Lower Upper  
152 100  
150 156.6 124.6 186.8  
115 64.6 50.1 75.1



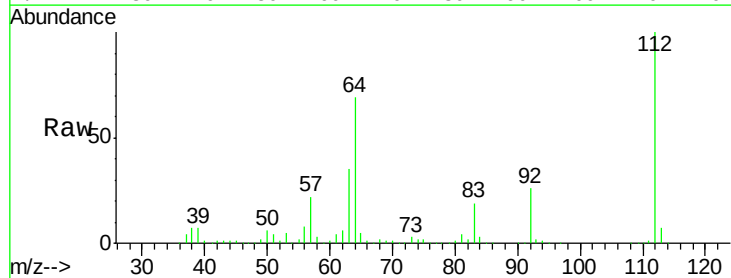
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



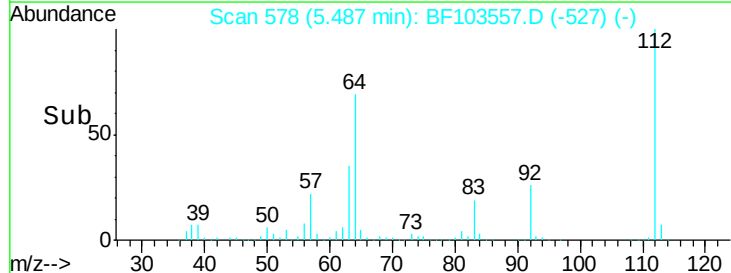
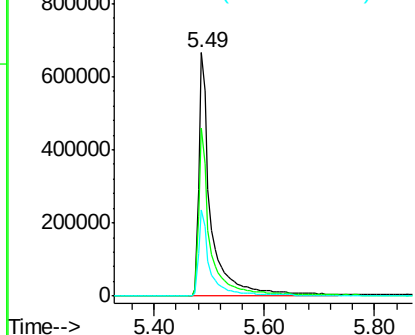
#5

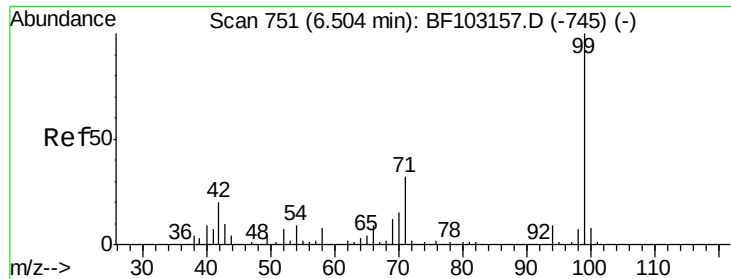
2-Fluorophenol  
Concen: 98.968 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:112 Resp: 1028213  
Ion Ratio Lower Upper  
112 100  
64 68.9 47.9 71.9  
63 35.4 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: 102.034 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampled :

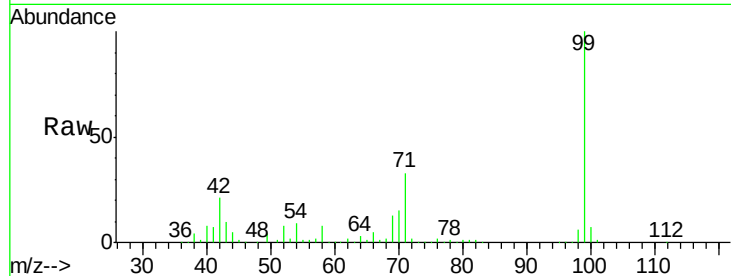
Tot Ion: 99 Resp: 1297152

Ion Ratio Lower Upper

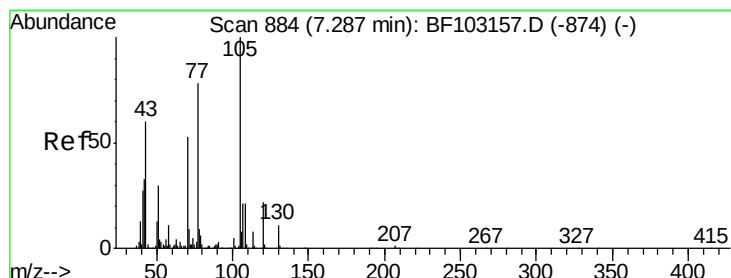
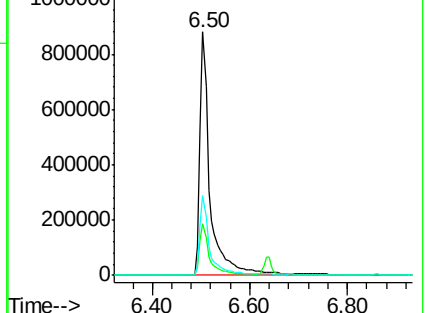
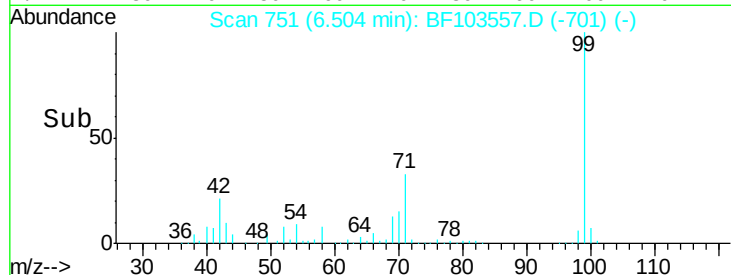
99 100

42 21.0 14.5 21.7

71 32.9 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 13.987 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.15 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Tgt Ion: 70 Resp: 110666

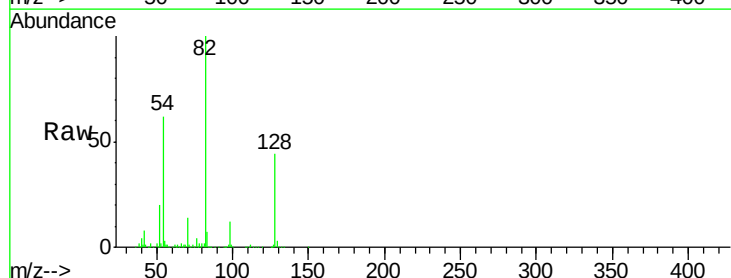
Ion Ratio Lower Upper

70 100

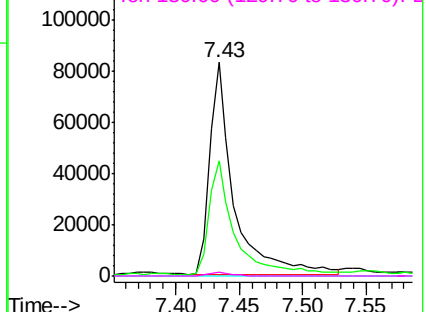
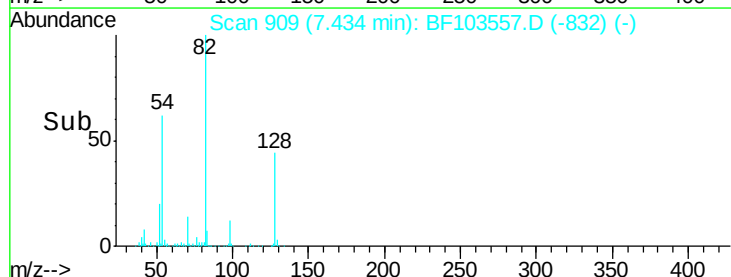
42 54.0 47.5 71.3

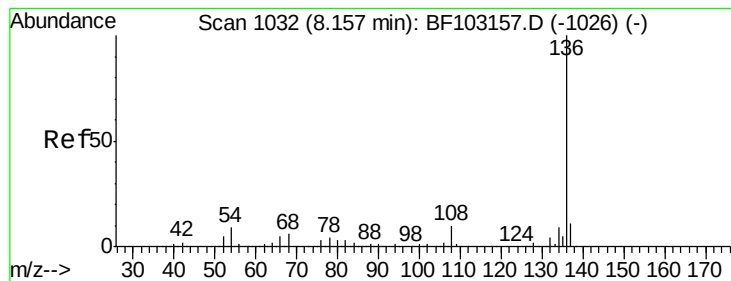
101 0.0 7.4 11.2#

130 2.0 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 649730

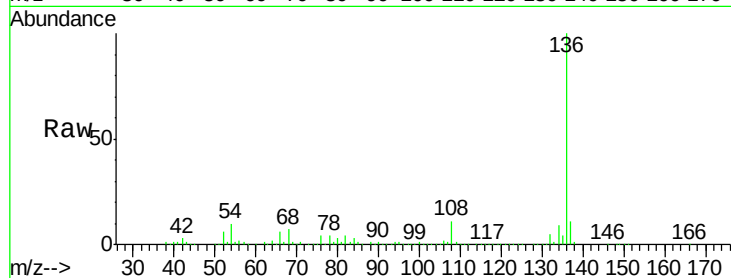
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.9 6.6 9.8#

68 7.1 5.0 7.4

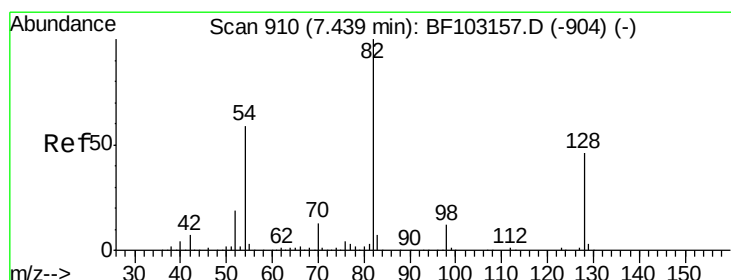
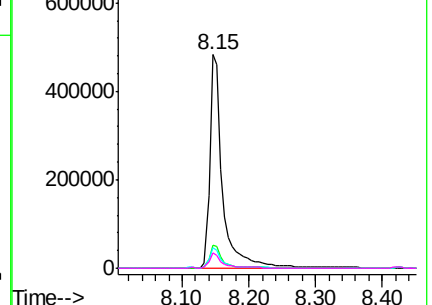
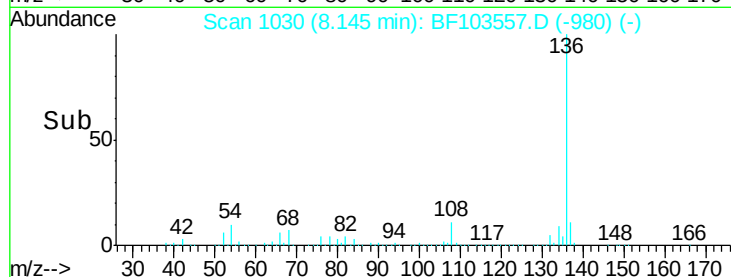


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 72.168 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.01 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

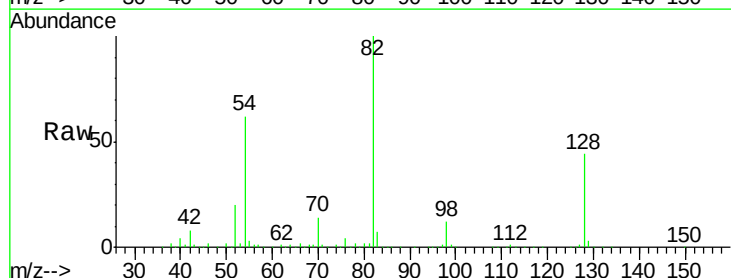
Tgt Ion: 82 Resp: 821065

Ion Ratio Lower Upper

82 100

128 43.8 36.1 54.1

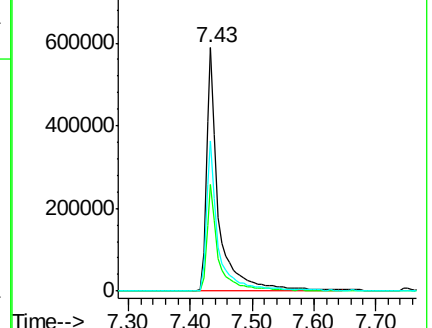
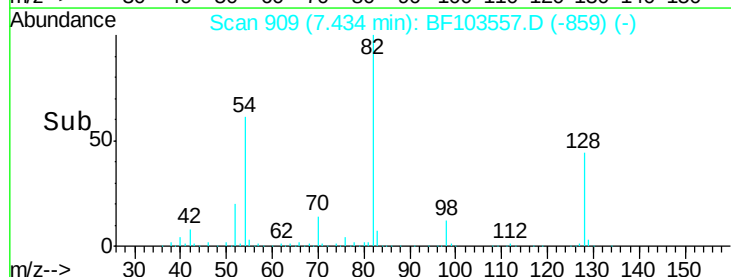
54 61.6 41.4 62.2

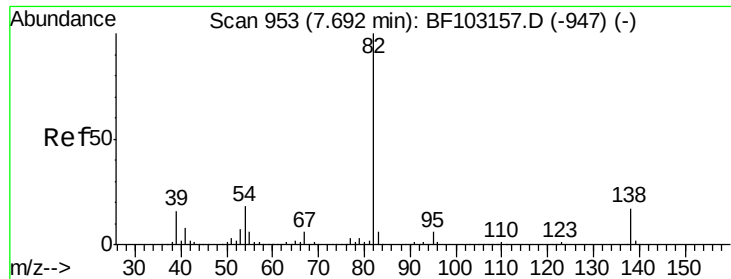


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 36.643 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.26 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

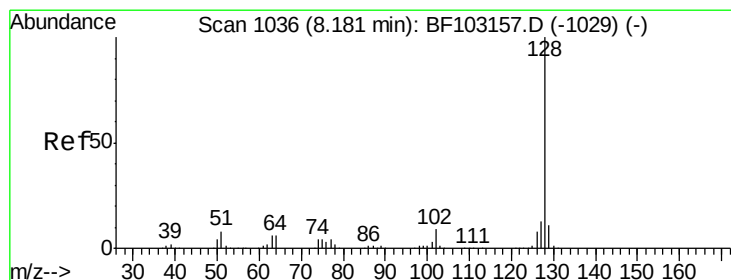
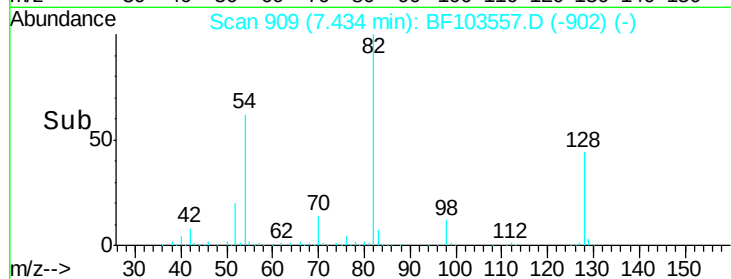
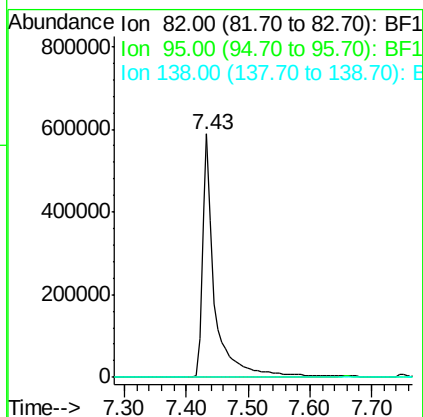
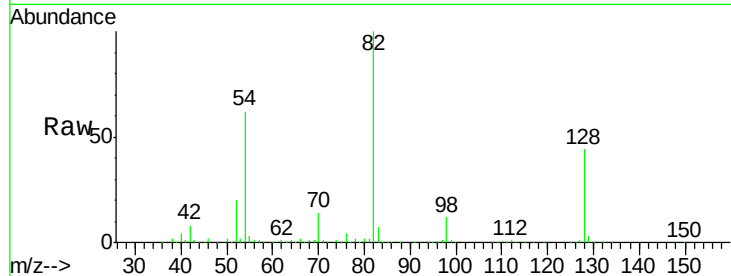
Tot Ion: 82 Resp: 821065

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

138 0.0 14.9 22.3#



#31

Naphthalene

Concen: 2.612 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

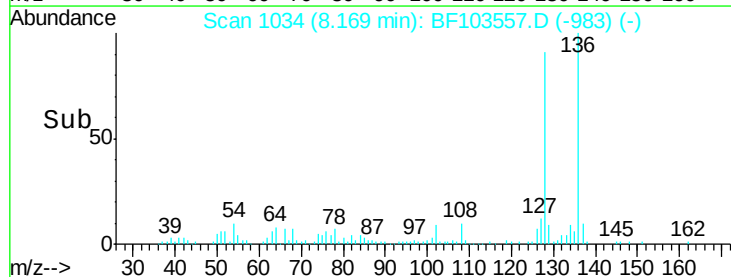
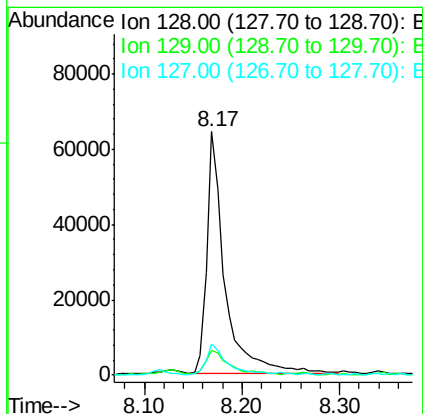
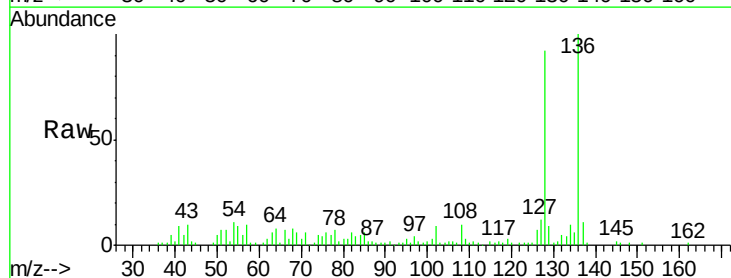
Tgt Ion: 128 Resp: 83082

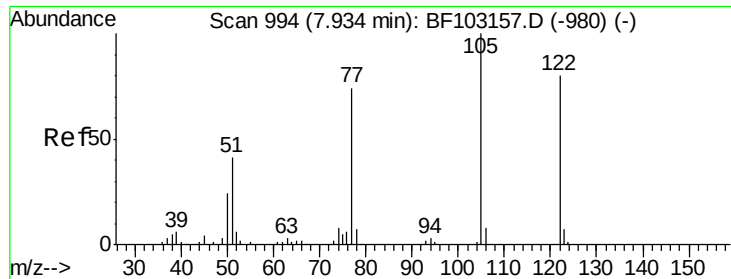
Ion Ratio Lower Upper

128 100

129 10.1 8.8 13.2

127 12.7 10.9 16.3

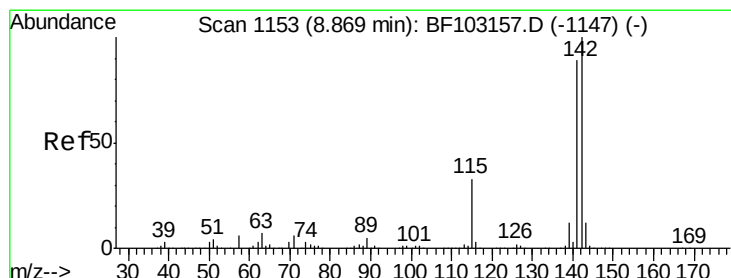
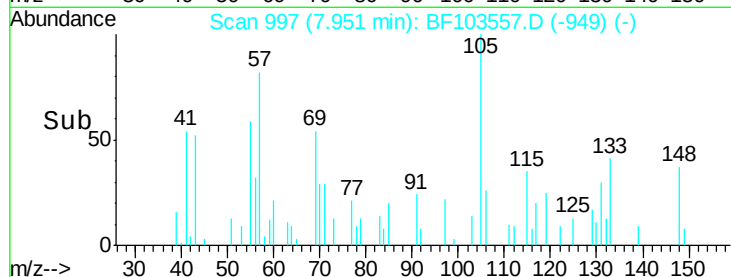
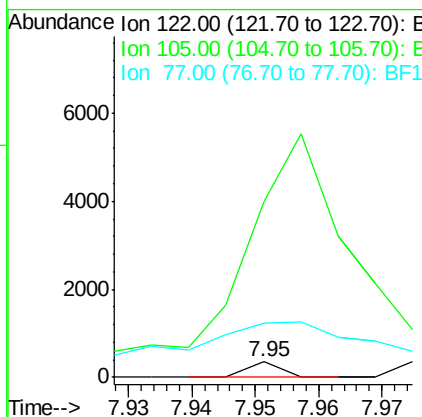
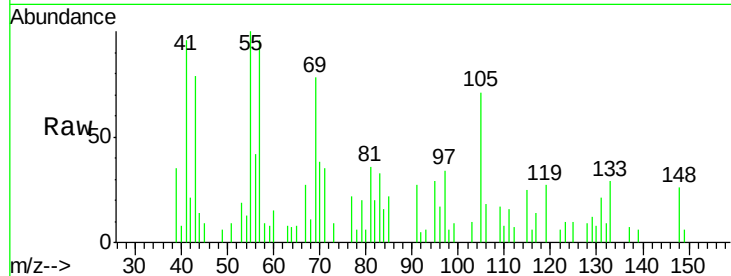




#32  
Benzoic acid  
Concen: 6.930 ng  
RT: 7.95 min Scan# 997  
Delta R.T. -0.02 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

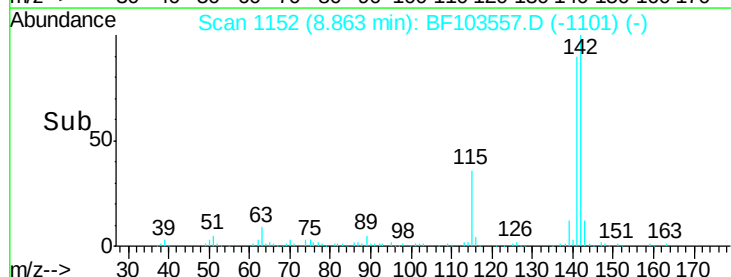
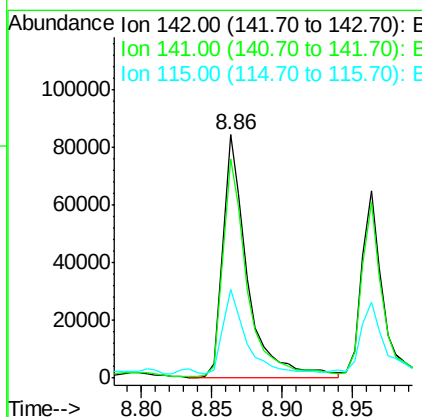
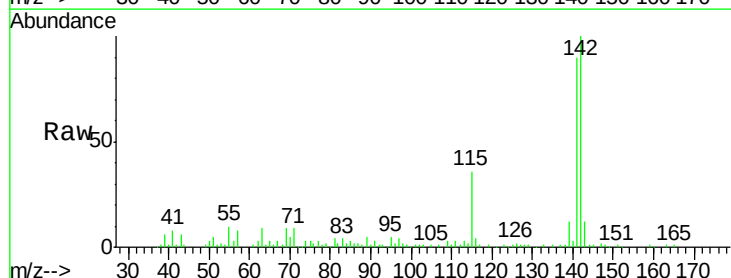
Instrument :  
BNA\_F  
ClientSampleId :

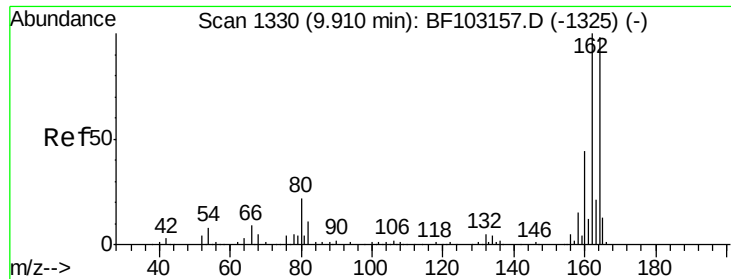
Tot Ion:122 Resp: 124  
Ion Ratio Lower Upper  
122 100  
105 1133.2 101.1 141.1#  
77 348.0 70.7 110.7#



#37  
2-Methylnaphthalene  
Concen: 4.919 ng  
RT: 8.86 min Scan# 1152  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:142 Resp: 101132  
Ion Ratio Lower Upper  
142 100  
141 89.8 70.8 106.2  
115 36.5 26.1 39.1

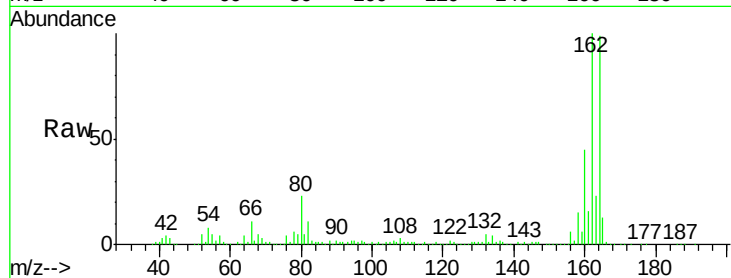




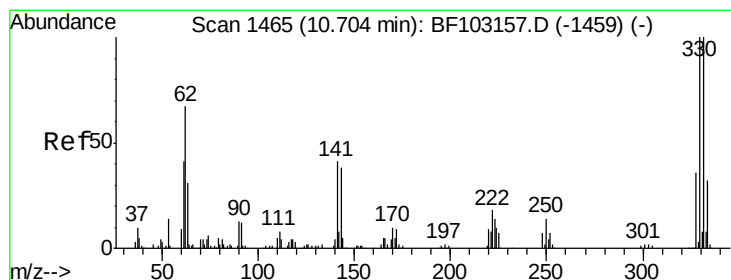
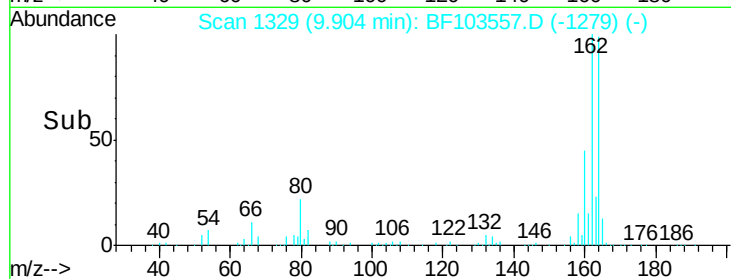
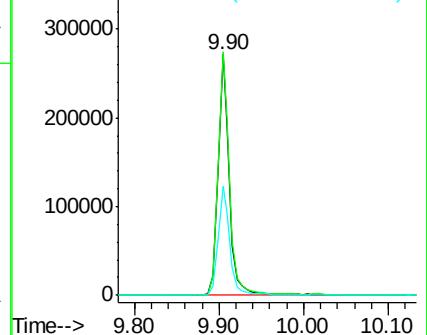
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1329  
 Delta R.T. -0.01 min  
 Lab File: BF103557.D  
 Acq: 9 Mar 2018 15:19

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.1 | 86.1  | 129.1 |
| 160     | 45.6  | 38.3  | 57.5  |

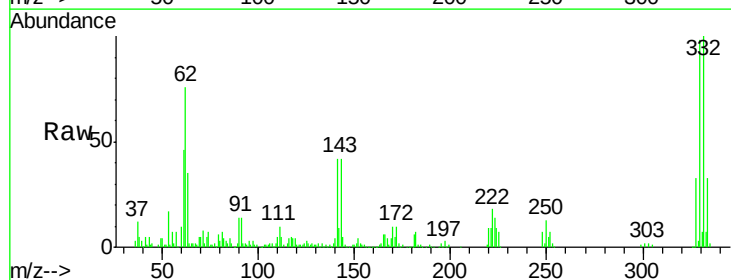


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

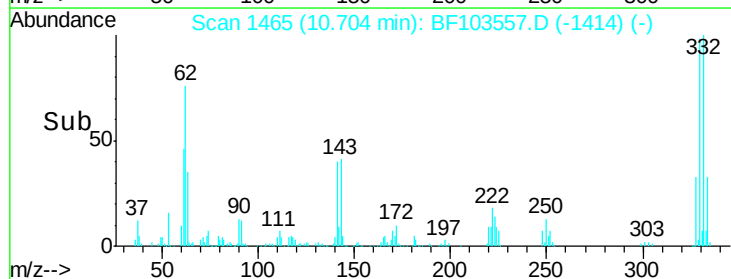
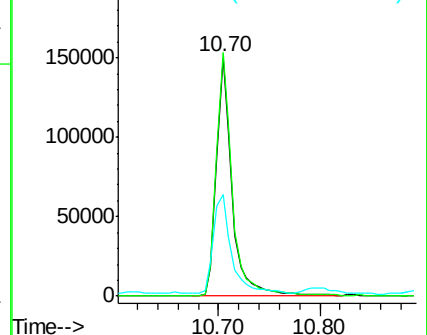


#41  
 2,4,6-Tribromophenol  
 Concen: 73.676 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: BF103557.D  
 Acq: 9 Mar 2018 15:19

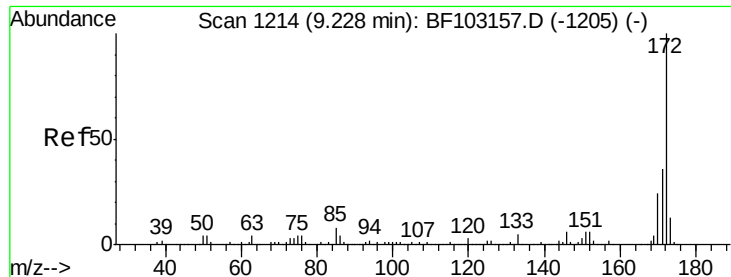
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 103.7 | 77.0  | 115.6 |
| 141     | 46.2  | 29.9  | 44.9# |



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



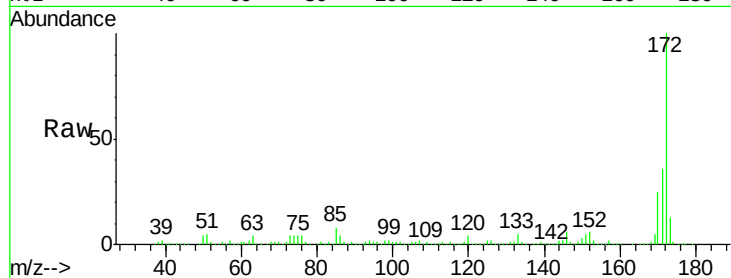




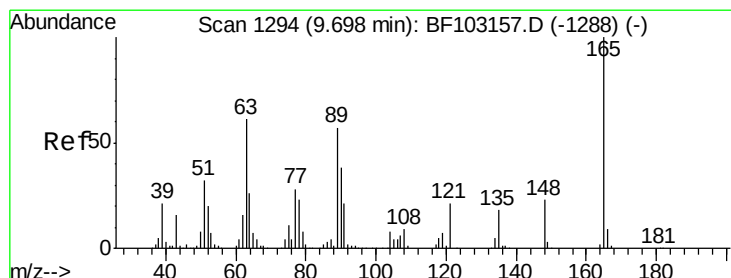
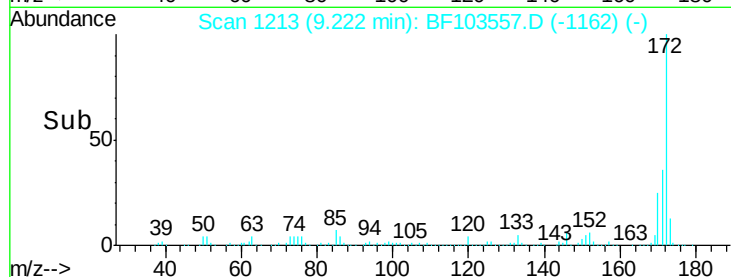
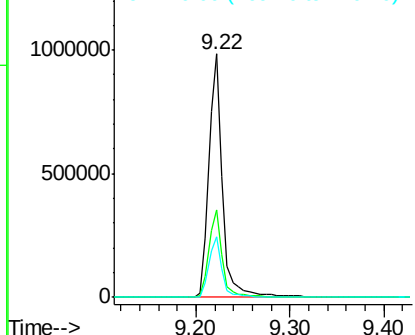
#44  
2-Fluorobiphenyl  
Concen: 61.799 ng  
RT: 9.22 min Scan# 1213  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1011909  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.7 44.5  
170 24.9 19.6 29.4

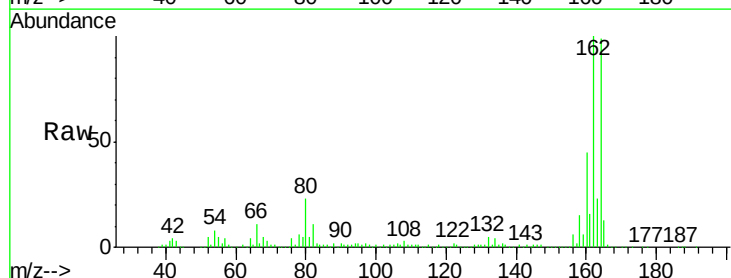


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

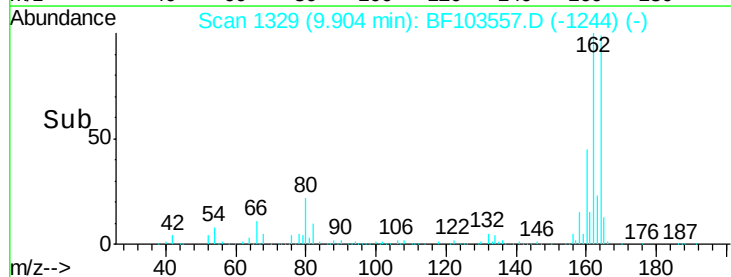
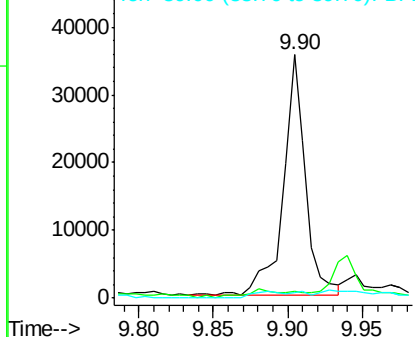


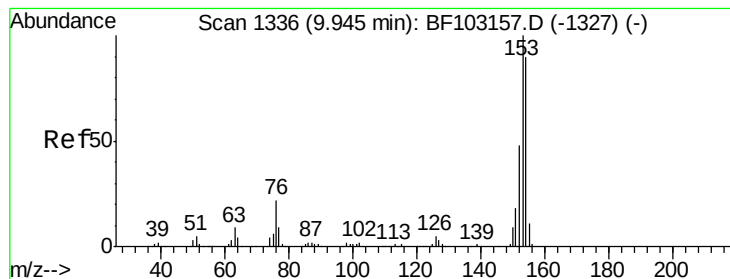
#50  
2,6-Dinitrotoluene  
Concen: 8.307 ng  
RT: 9.90 min Scan# 1329  
Delta R.T. 0.20 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:165 Resp: 36911  
Ion Ratio Lower Upper  
165 100  
63 2.9 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





#51

Acenaphthene

Concen: 3.252 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampled :

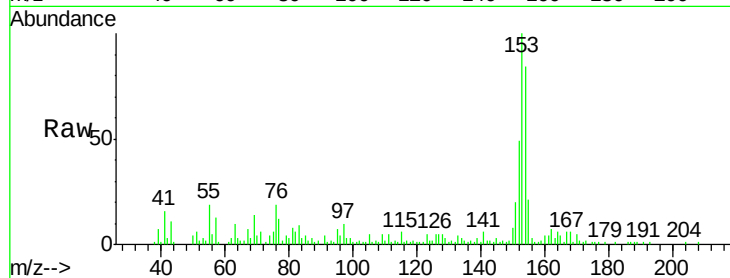
Tot Ion:154 Resp: 51057

Ion Ratio Lower Upper

154 100

153 119.6 91.2 136.8

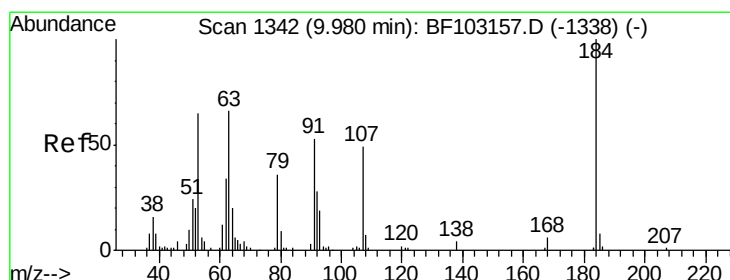
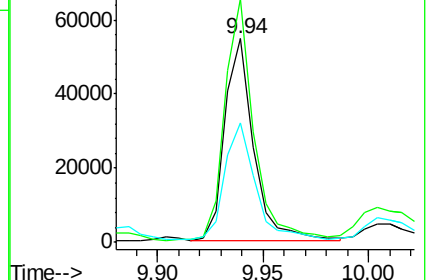
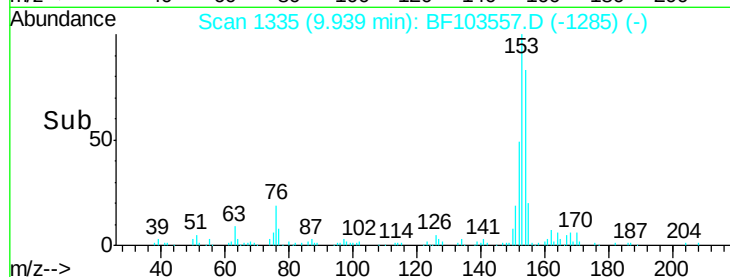
152 58.4 43.8 65.8



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: 10.050 ng

RT: 10.19 min Scan# 1377

Delta R.T. 0.18 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

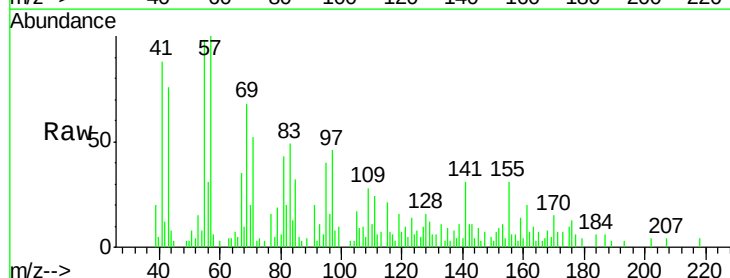
Tgt Ion:184 Resp: 783

Ion Ratio Lower Upper

184 100

63 60.4 54.2 81.2

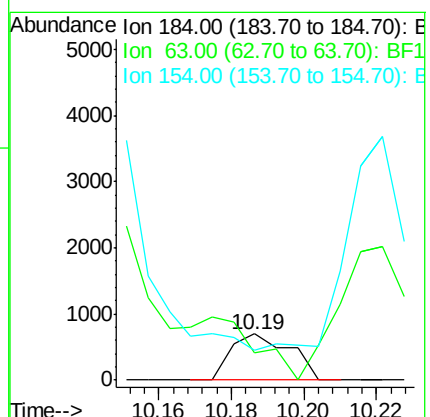
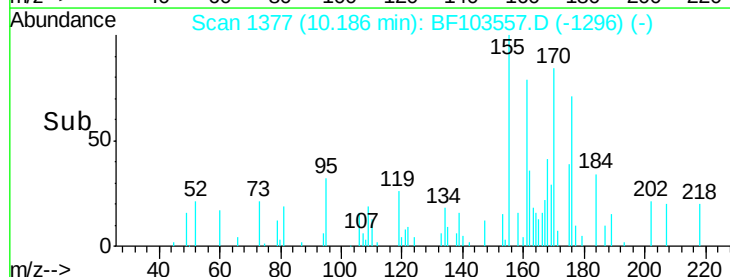
154 65.6 184.0 276.0#

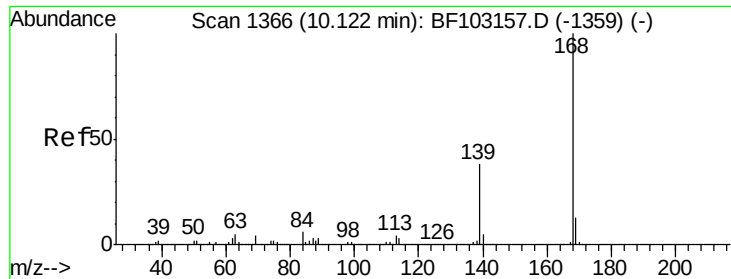


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#54

Dibenzofuran

Concen: 2.400 ng

RT: 10.12 min Scan# 1365

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

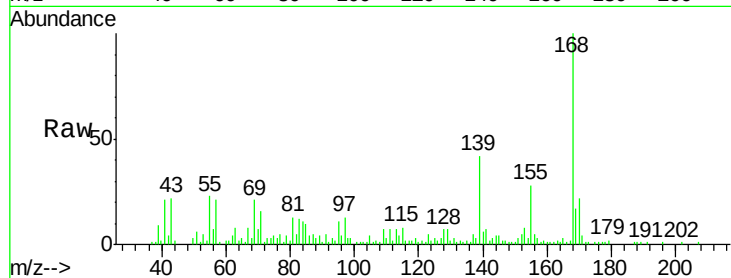
Tot Ion:168 Resp: 51720

Ion Ratio Lower Upper

168 100

139 42.4 30.1 45.1

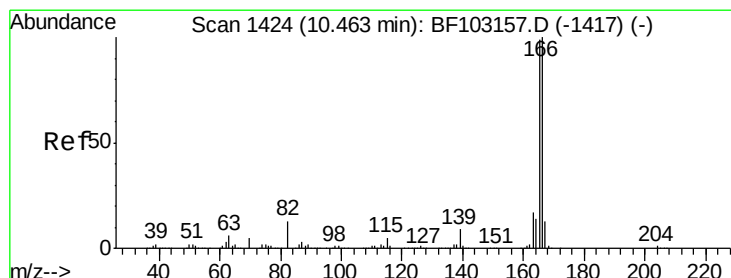
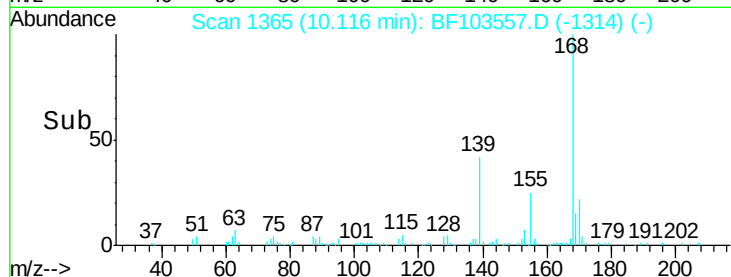
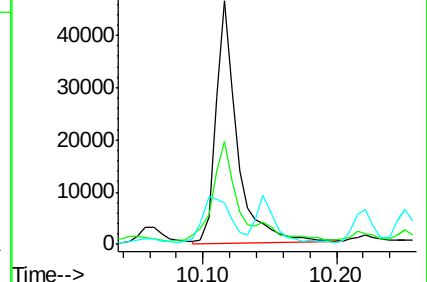
169 16.7 10.9 16.3#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 3.340 ng

RT: 10.46 min Scan# 1423

Delta R.T. -0.01 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

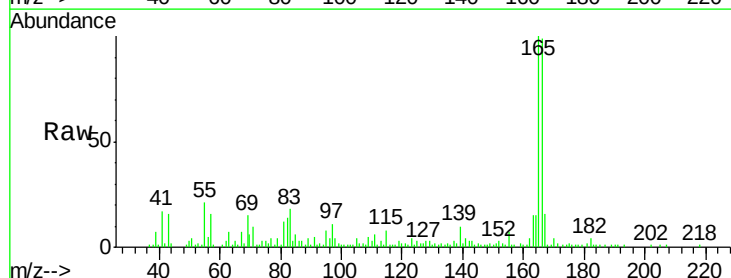
Tgt Ion:166 Resp: 61310

Ion Ratio Lower Upper

166 100

165 101.2 79.8 119.8

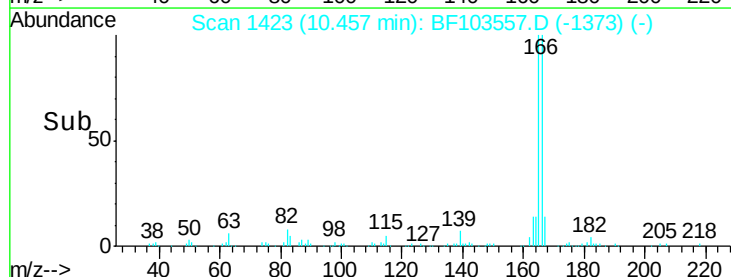
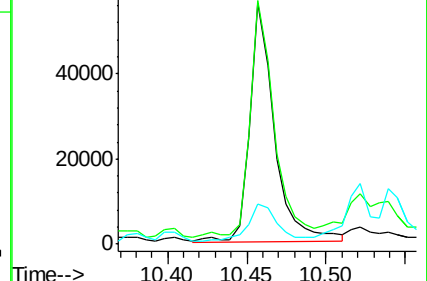
167 16.4 10.6 16.0#

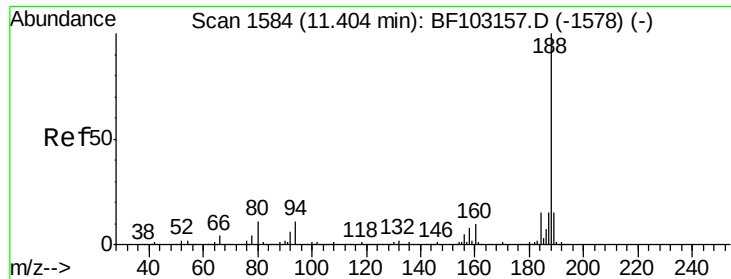


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

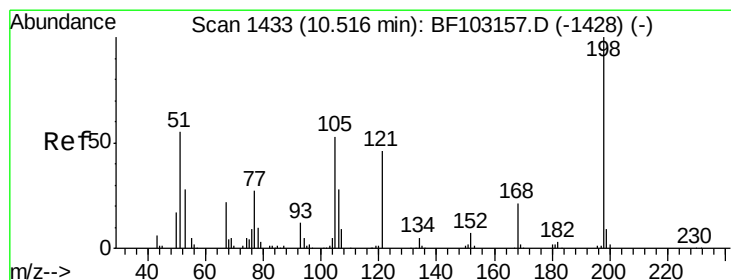
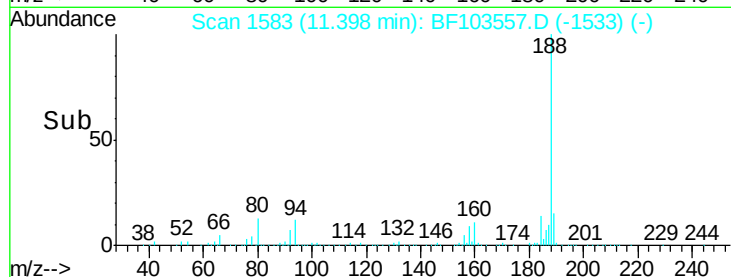
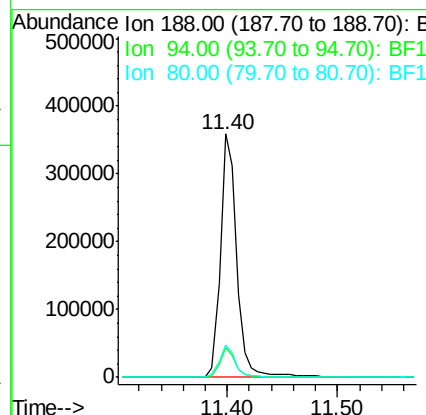
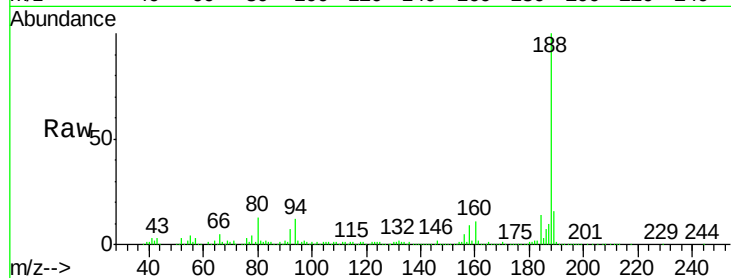




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

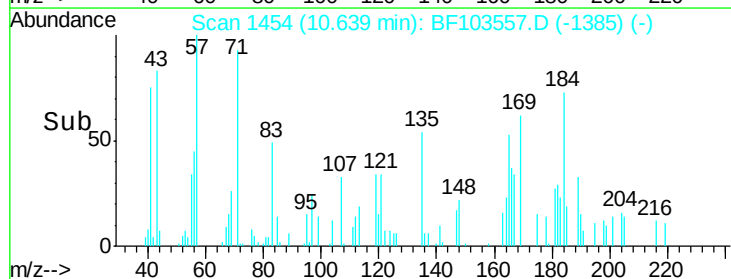
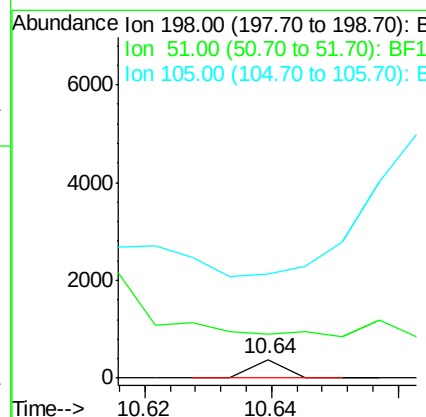
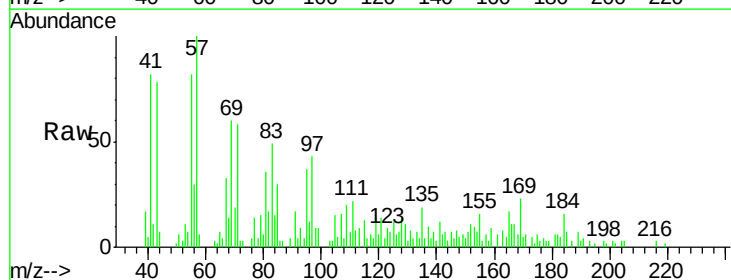
Instrument :  
BNA\_F  
ClientSampleId :

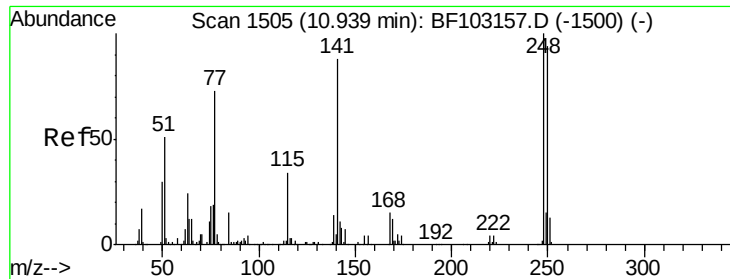
Tot Ion:188 Resp: 367165  
Ion Ratio Lower Upper  
188 100  
94 12.0 8.5 12.7  
80 13.3 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 4.999 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. 0.11 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:198 Resp: 134  
Ion Ratio Lower Upper  
198 100  
51 234.1 37.7 77.7#  
105 560.1 36.3 76.3#

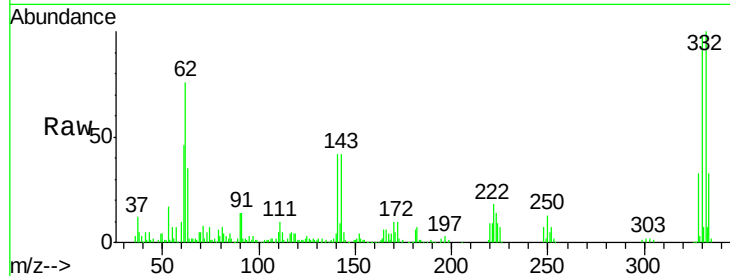




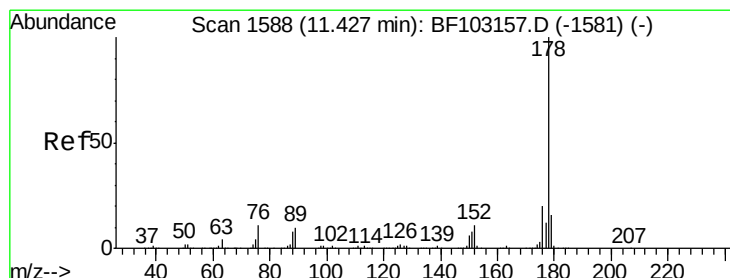
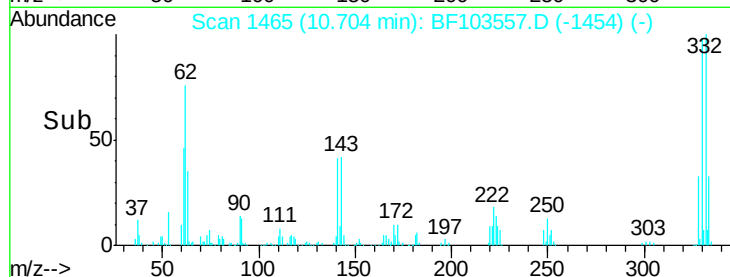
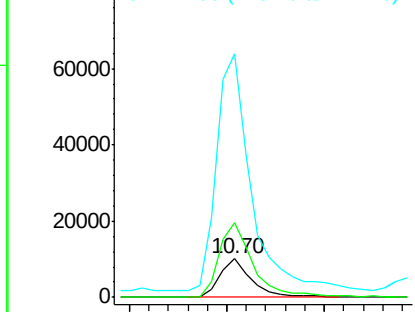
#66  
4-Bromophenyl-phenylether  
Concen: 2.965 ng  
RT: 10.70 min Scan# 1465  
Delta R.T. -0.24 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 11342  
Ion Ratio Lower Upper  
248 100  
250 195.1 76.9 115.3#  
141 635.7 74.4 111.6#

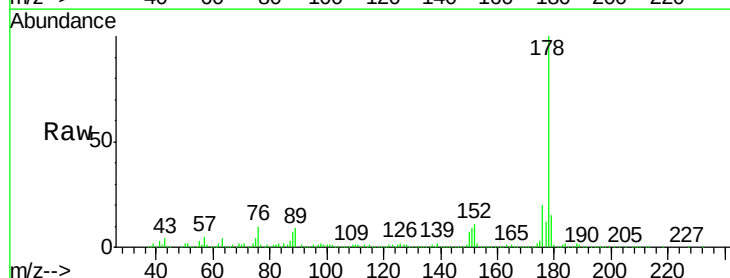


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

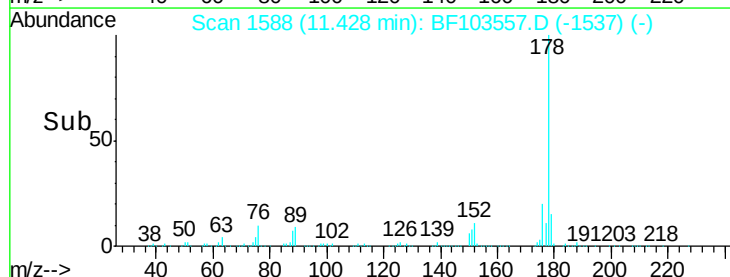
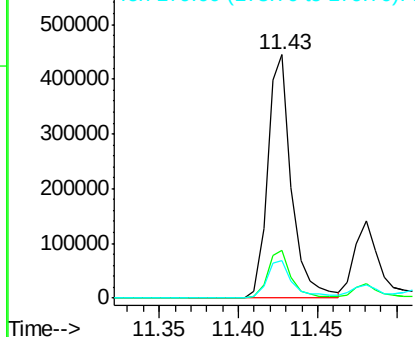


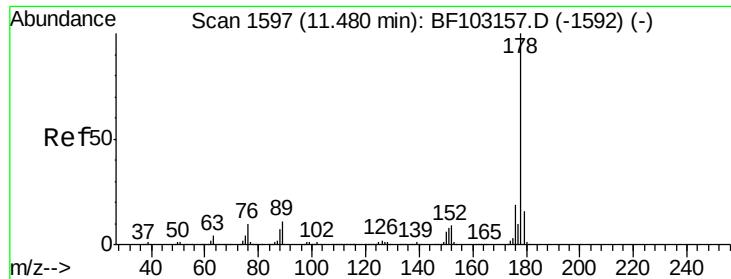
#70  
Phenanthrene  
Concen: 23.103 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:178 Resp: 466829  
Ion Ratio Lower Upper  
178 100  
176 19.9 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

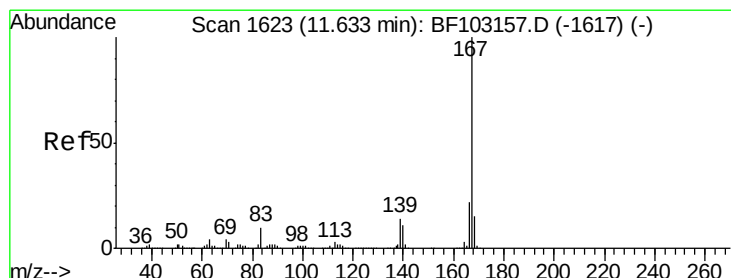
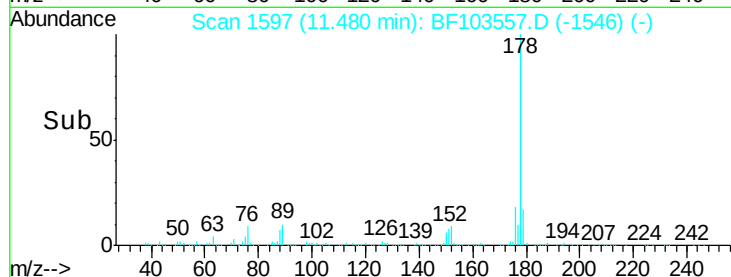
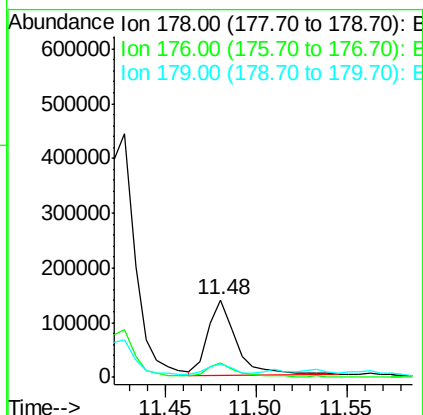
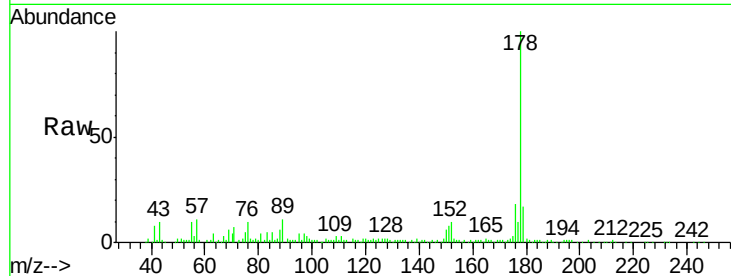




#71  
 Anthracene  
 Concen: 7.465 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. 0.00 min  
 Lab File: BF103557.D  
 Acq: 9 Mar 2018 15:19

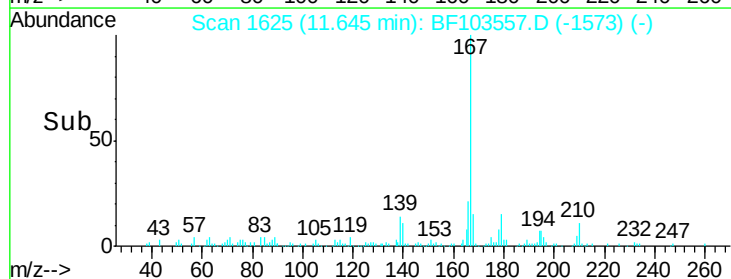
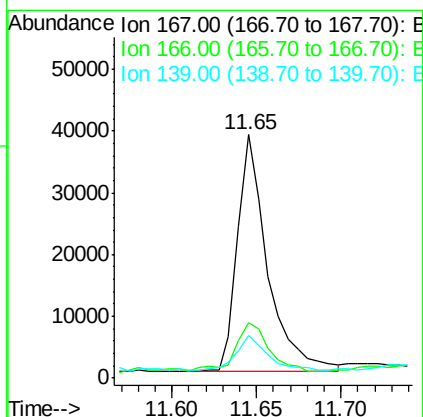
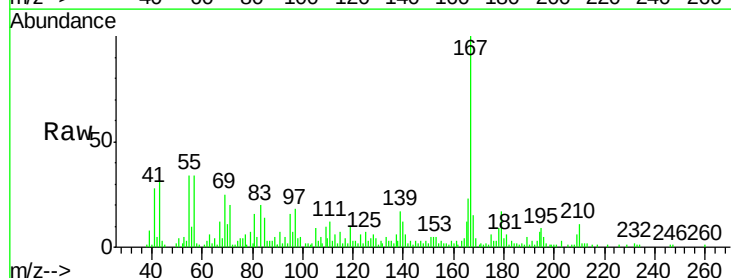
Instrument :  
 BNA\_F  
 ClientSampled :

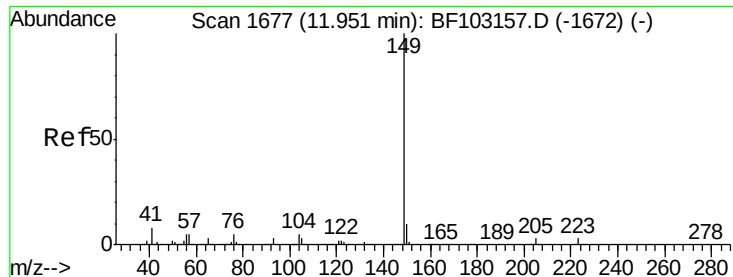
Tot Ion:178 Resp: 154676  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.4 23.2  
 179 17.4 12.6 19.0



#72  
 Carbazole  
 Concen: 2.312 ng  
 RT: 11.65 min Scan# 1625  
 Delta R.T. 0.01 min  
 Lab File: BF103557.D  
 Acq: 9 Mar 2018 15:19

Tgt Ion:167 Resp: 47706  
 Ion Ratio Lower Upper  
 167 100  
 166 22.8 17.6 26.4  
 139 17.4 10.9 16.3#





#73

Di-n-butylphthalate

Concen: 31.149 ng

RT: 11.95 min Scan# 1676

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

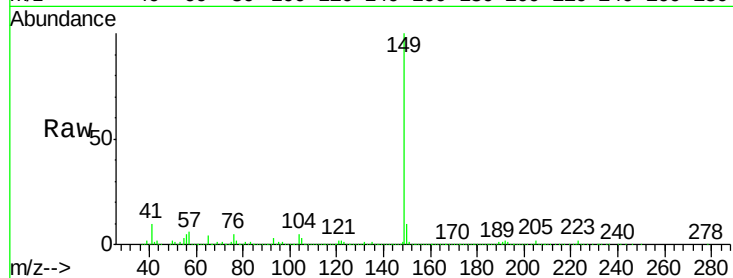
Tot Ion:149 Resp: 804248

Ion Ratio Lower Upper

149 100

150 9.5 7.8 11.6

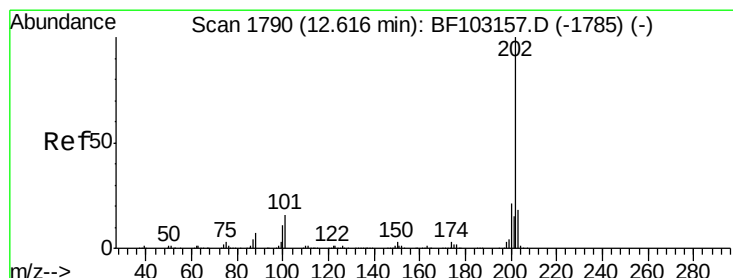
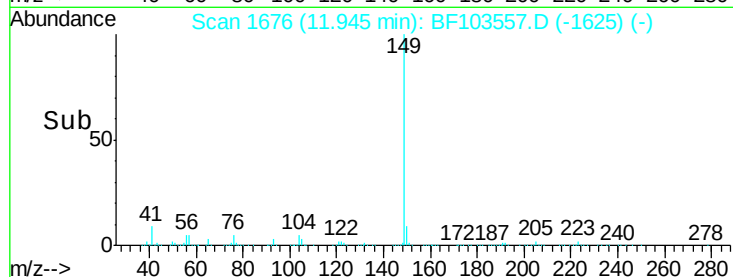
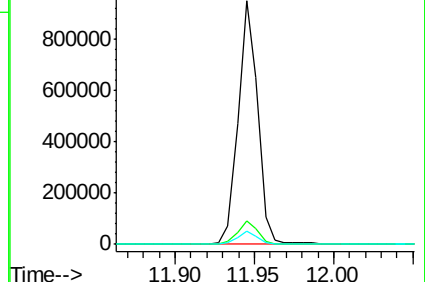
104 5.3 3.8 5.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 24.360 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

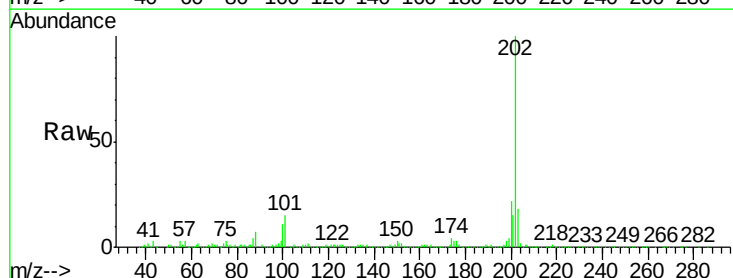
Tgt Ion:202 Resp: 494630

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.1

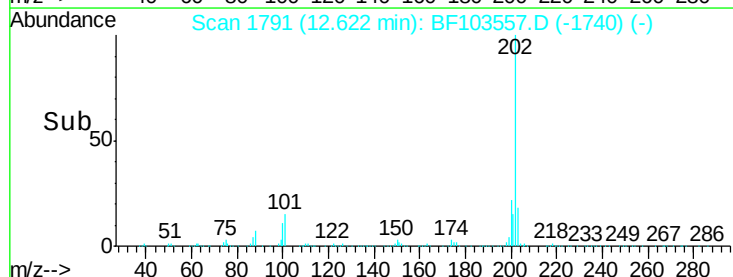
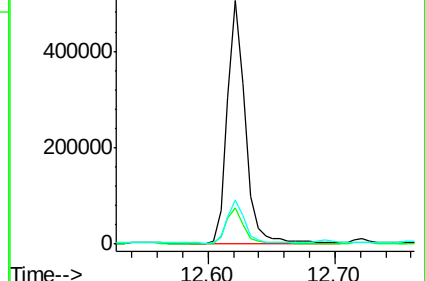
203 18.0 0.0 38.1

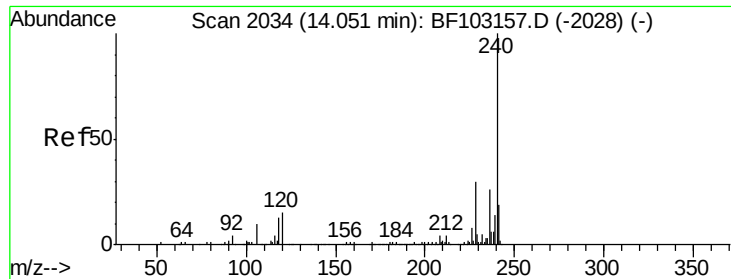


Abundance Ion 202.00 (201.70 to 202.70): E

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. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

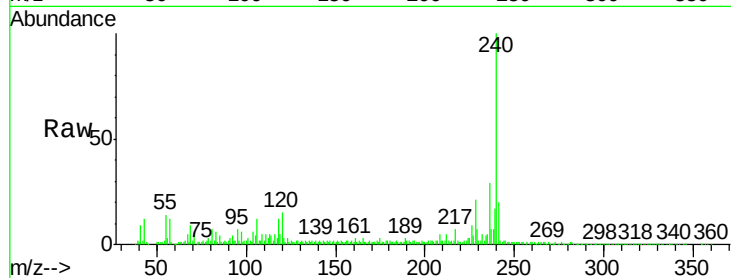
Tot Ion:240 Resp: 229598

Ion Ratio Lower Upper

240 100

120 15.0 9.5 14.3#

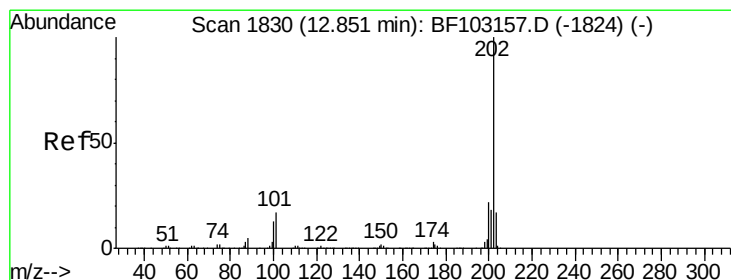
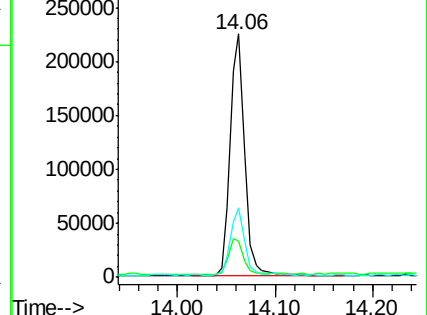
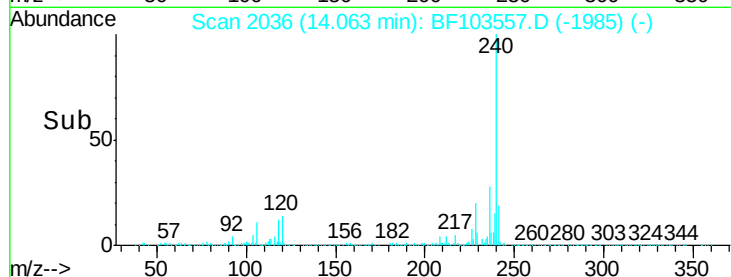
236 28.7 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 25.125 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

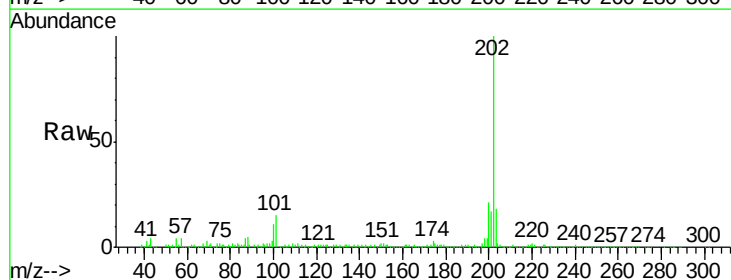
Tgt Ion:202 Resp: 449751

Ion Ratio Lower Upper

202 100

200 20.5 17.4 26.2

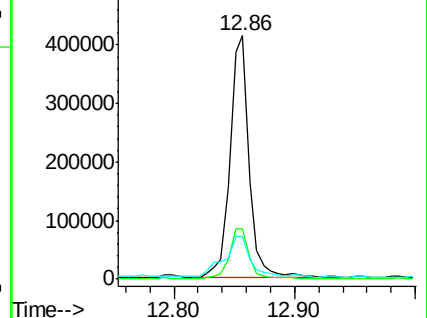
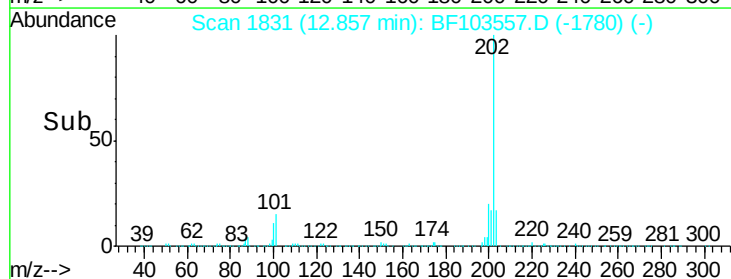
203 17.7 14.3 21.5



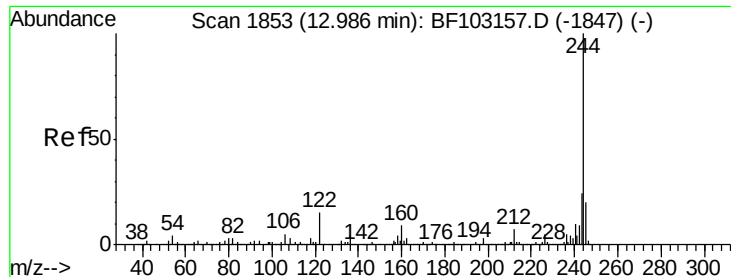
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#78

Terphenyl-d14

Concen: 65.886 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

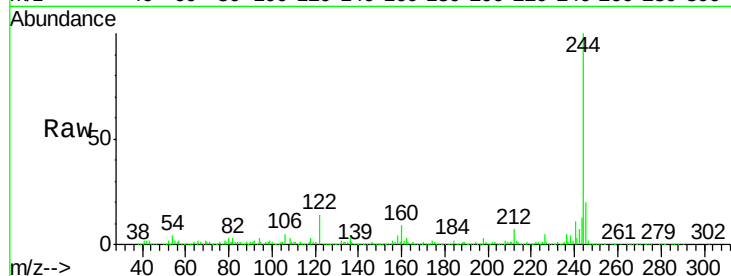
Tot Ion:244 Resp: 629288

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

122 13.9 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

800000

600000

400000

200000

0

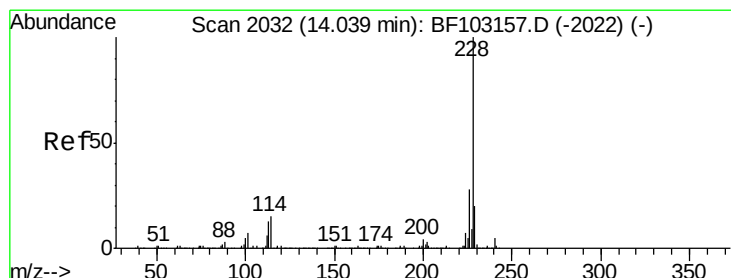
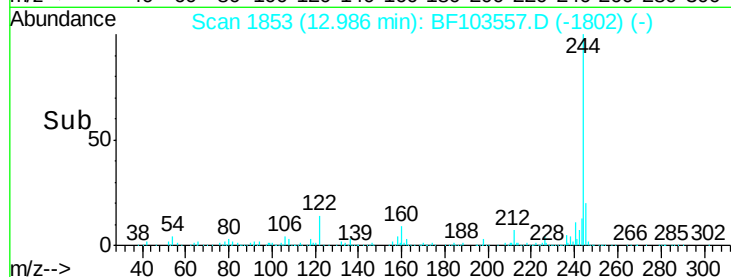
12.99

12.90

13.00

13.10

Time-->



#80

Benzo(a)anthracene

Concen: 15.198 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

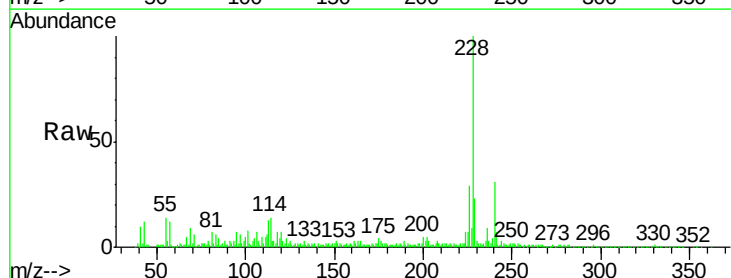
Tgt Ion:228 Resp: 226403

Ion Ratio Lower Upper

228 100

226 28.7 22.6 33.8

229 22.7 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

250000

200000

150000

100000

50000

0

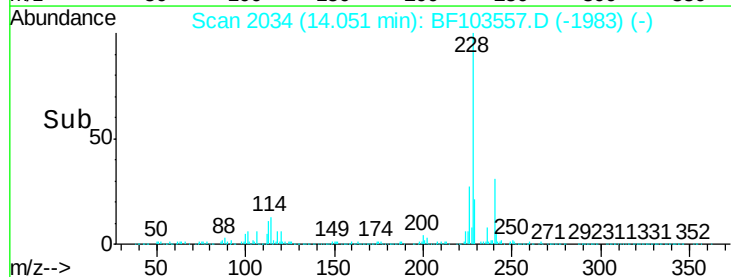
14.05

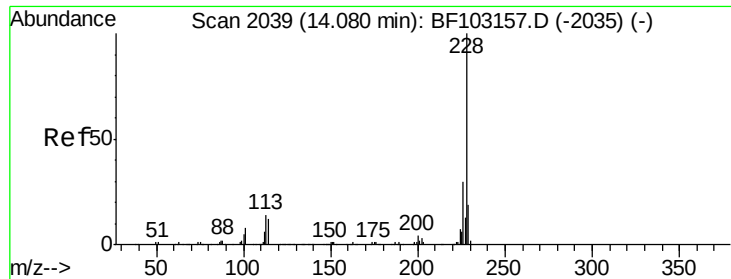
13.90

14.00

14.10

Time-->

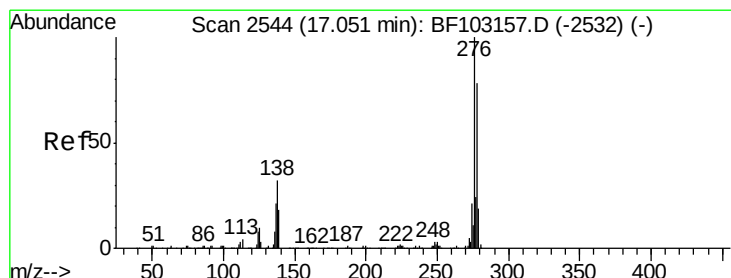
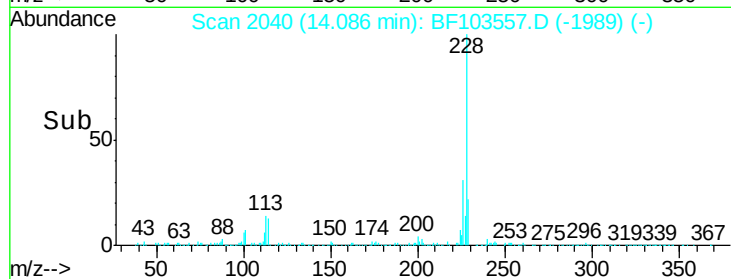
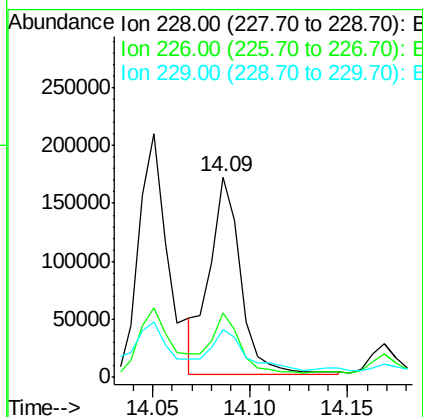
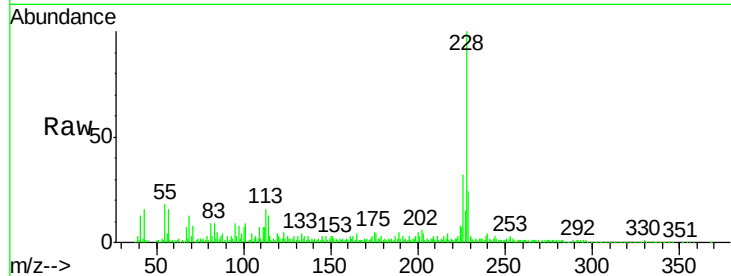




#82  
Chrysene  
Concen: 13.195 ng  
RT: 14.09 min Scan# 2040  
Delta R.T. 0.00 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

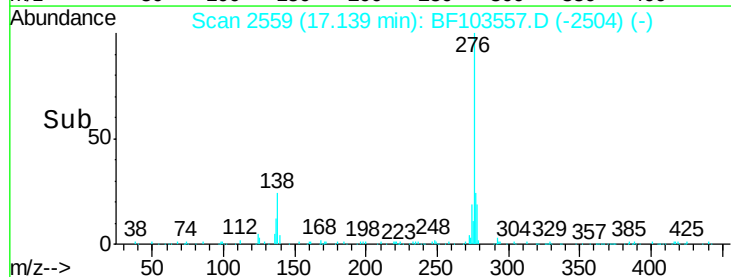
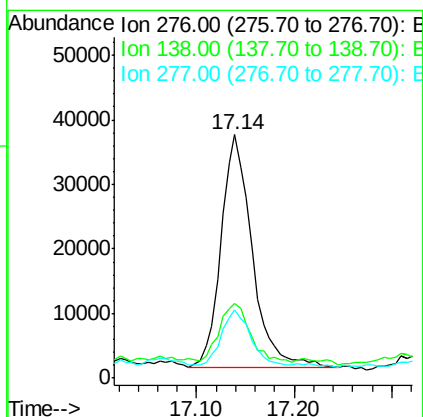
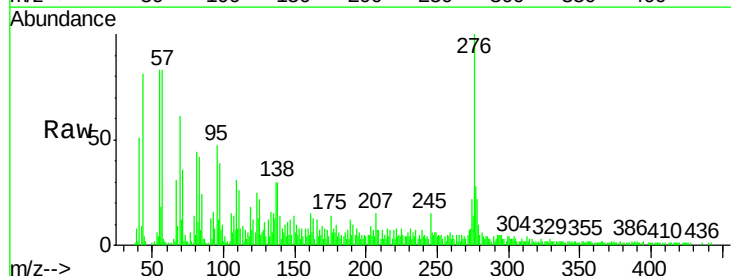
Instrument :  
BNA\_F  
ClientSampleId :

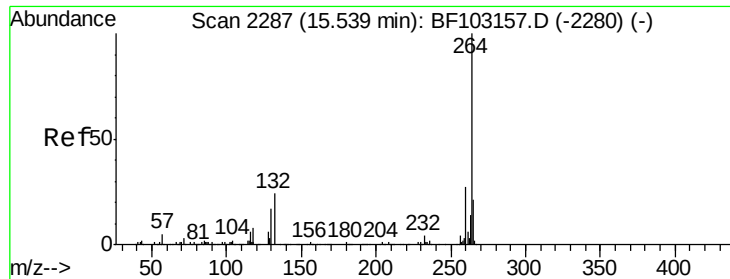
Tot Ion:228 Resp: 190856  
Ion Ratio Lower Upper  
228 100  
226 32.5 25.0 37.6  
229 24.1 16.2 24.4



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 6.991 ng  
RT: 17.14 min Scan# 2559  
Delta R.T. 0.02 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:276 Resp: 80058  
Ion Ratio Lower Upper  
276 100  
138 24.8 25.0 37.6#  
277 22.0 20.1 30.1

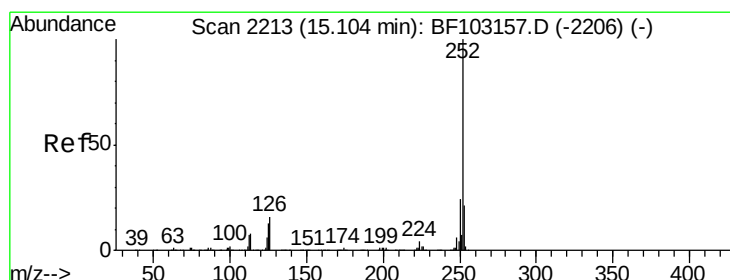
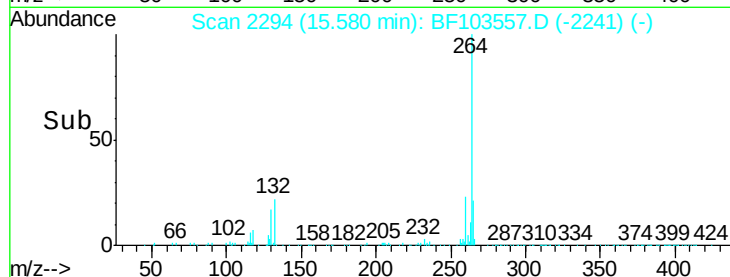
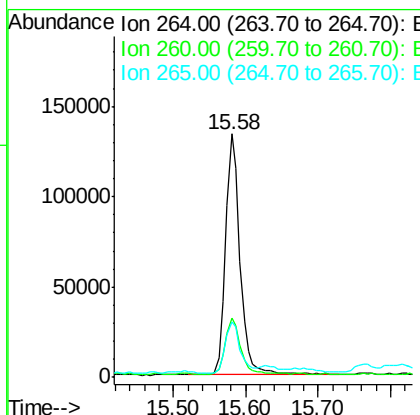
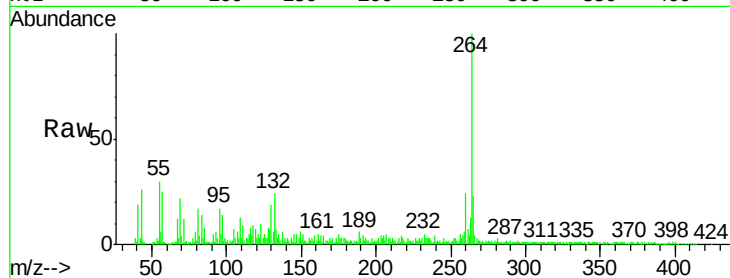




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.58 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

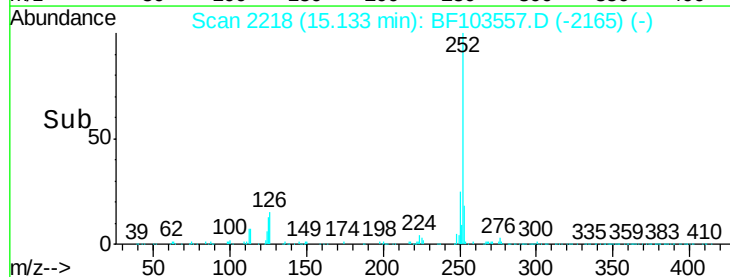
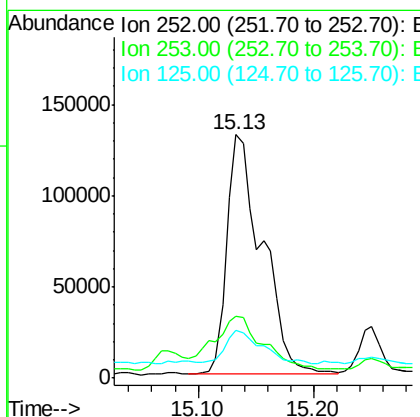
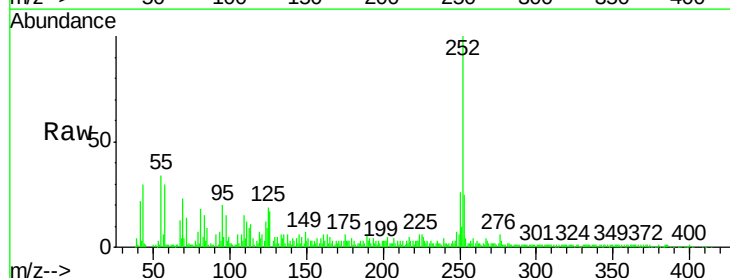
Instrument :  
BNA\_F  
ClientSampleId :

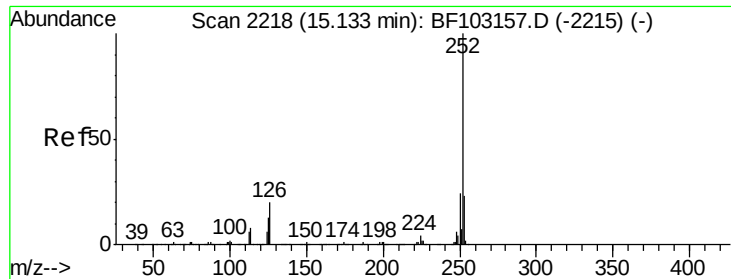
Tot Ion:264 Resp: 187040  
Ion Ratio Lower Upper  
264 100  
260 24.4 19.2 28.8  
265 23.0 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 22.510 ng  
RT: 15.13 min Scan# 2218  
Delta R.T. 0.01 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

Tgt Ion:252 Resp: 276818  
Ion Ratio Lower Upper  
252 100  
253 25.4 17.0 25.6  
125 19.5 9.0 13.6#

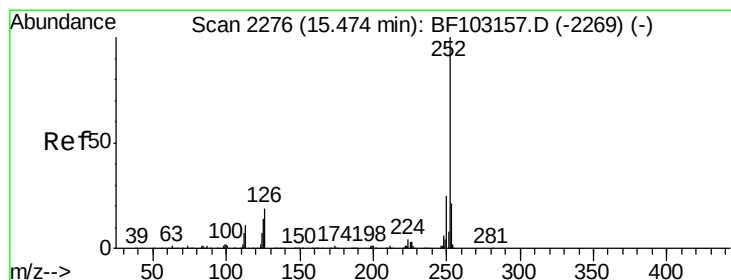
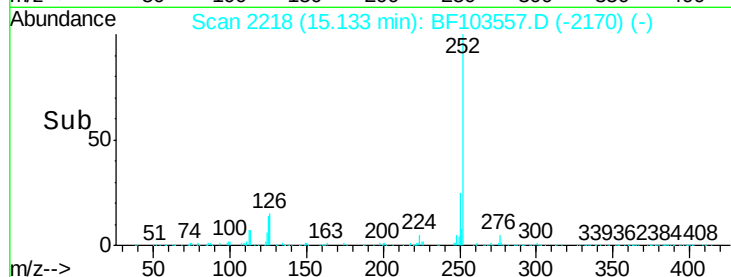
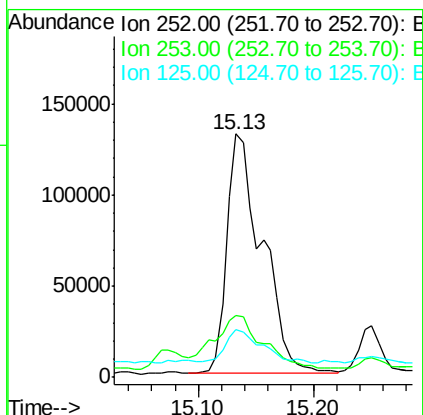
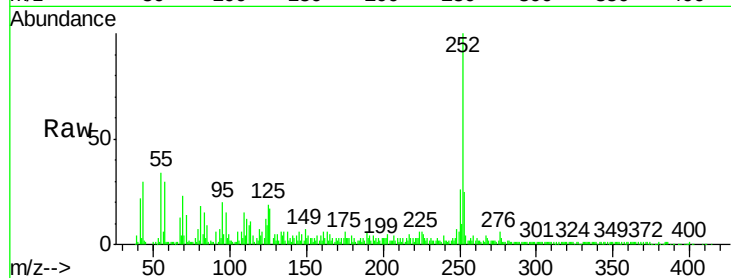




#88  
Benzo(k)fluoranthene  
Concen: 23.904 ng  
RT: 15.13 min Scan# 2218  
Delta R.T. -0.02 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

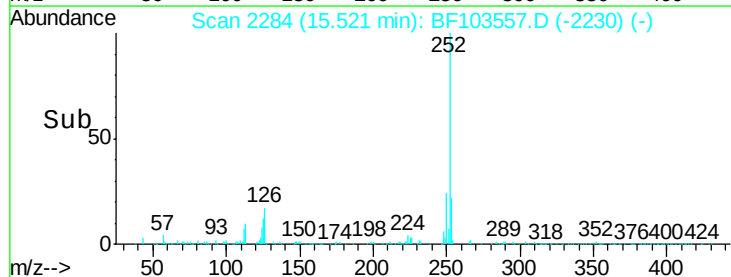
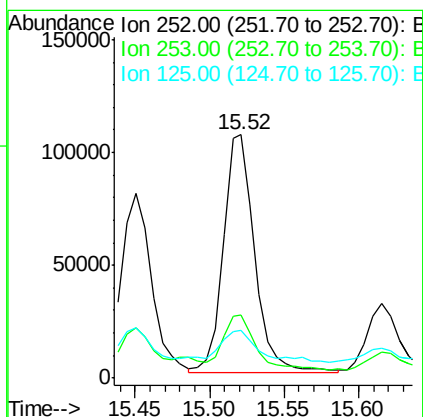
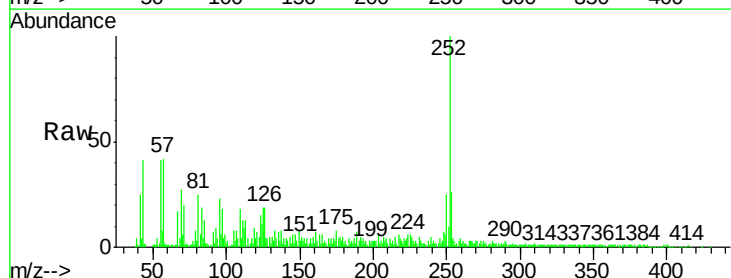
Instrument :  
BNA\_F  
ClientSampleId :

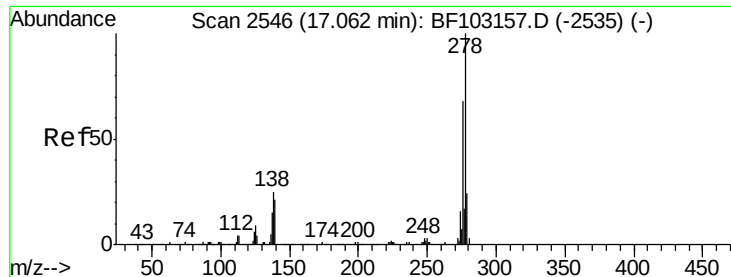
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 17.9  | 26.9  |
| 125     | 19.5  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 14.226 ng  
RT: 15.52 min Scan# 2284  
Delta R.T. 0.02 min  
Lab File: BF103557.D  
Acq: 9 Mar 2018 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.1  | 17.1  | 25.7  |
| 125     | 19.4  | 9.8   | 14.6  |





#90

Dibenzo(a,h)anthracene

Concen: 2.079 ng

RT: 17.13 min Scan# 2558

Delta R.T. 0.02 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

Instrument :

BNA\_F

ClientSampleId :

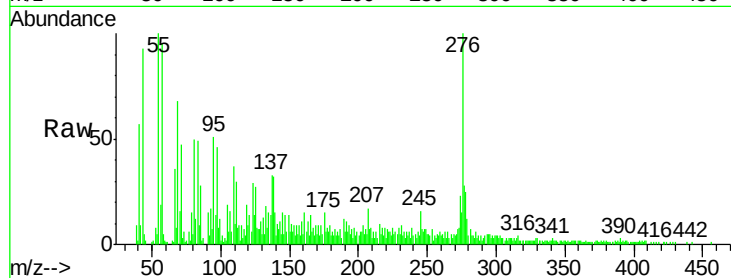
Tot Ion:278 Resp: 17646

Ion Ratio Lower Upper

278 100

139 60.2 15.9 23.9#

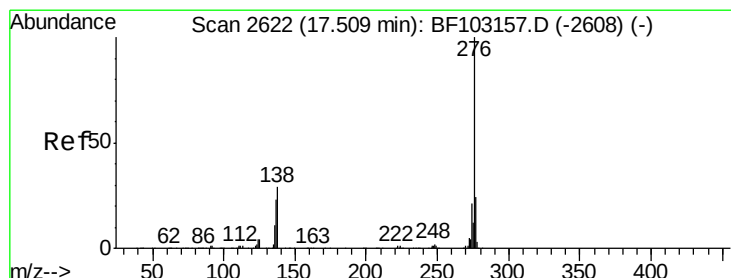
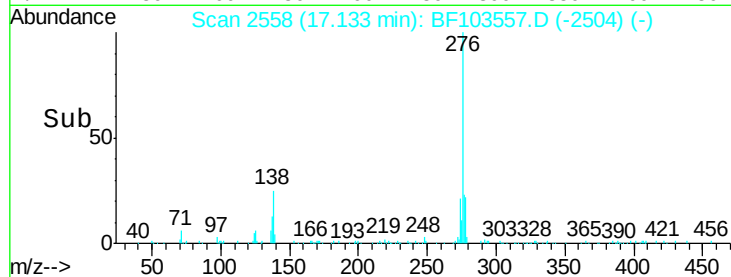
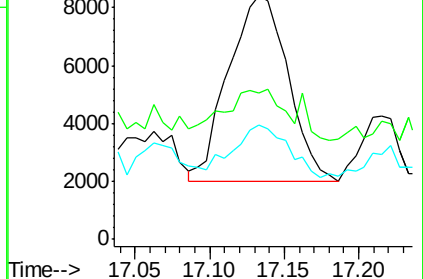
279 47.1 19.0 28.4#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 11.342 ng

RT: 17.62 min Scan# 2641

Delta R.T. 0.04 min

Lab File: BF103557.D

Acq: 9 Mar 2018 15:19

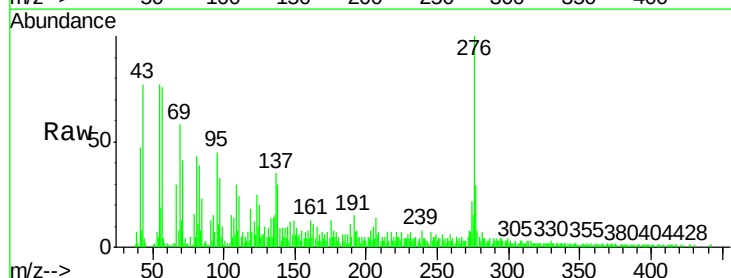
Tgt Ion:276 Resp: 94067

Ion Ratio Lower Upper

276 100

277 29.2 17.9 26.9#

138 30.4 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

