

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031418\  
 Data File : BF103643.D  
 Acq On : 14 Mar 2018 16:25  
 Operator : SJ/JU  
 Sample : J1754-09  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 14 18:12:08 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 14 18:08:29 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 142100   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.14  | 136  | 612793   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 244962   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.39 | 188  | 340814   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 214386   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.57 | 264  | 168716   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 788439  | 83.92 | ng | 0.00 |
| 7) Phenol-d6             | 6.50  | 99  | 1103716 | 96.00 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 682532  | 63.61 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 129513  | 62.46 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.21  | 172 | 856038  | 55.21 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.98 | 244 | 485510  | 54.44 | ng | 0.00 |

## Target Compounds

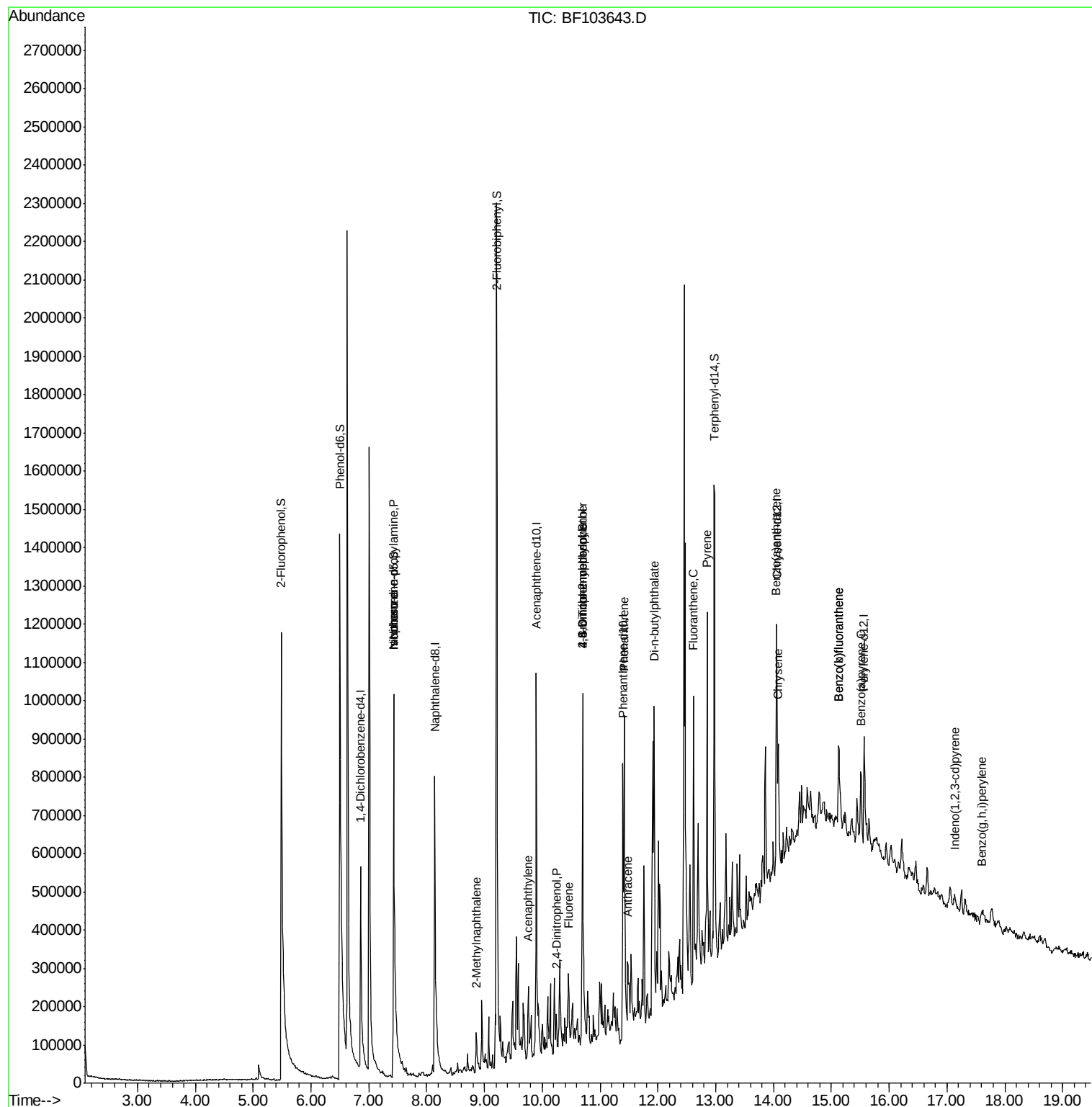
|                                |       |     |        |           |    | Qvalue |
|--------------------------------|-------|-----|--------|-----------|----|--------|
| 9) Benzaldehyde                | 6.50  | 77  | 1766   | Below Cal | #  | 1      |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70  | 85607  | 11.964    | ng | # 86   |
| 25) Isophorone                 | 7.43  | 82  | 682532 | 32.296    | ng | # 64   |
| 37) 2-Methylnaphthalene        | 8.86  | 142 | 53137  | 2.741     | ng | # 98   |
| 48) Acenaphthylene             | 9.76  | 152 | 83883  | 3.357     | ng | # 95   |
| 53) 2,4-Dinitrophenol          | 10.25 | 184 | 124    | 9.694     | ng | # 1    |
| 57) Fluorene                   | 10.45 | 166 | 77878  | 4.571     | ng | # 91   |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198 | 408    | 5.122     | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248 | 9110   | 2.566     | ng | # 1    |
| 70) Phenanthrene               | 11.42 | 178 | 377926 | 20.150    | ng | # 98   |
| 71) Anthracene                 | 11.47 | 178 | 110967 | 5.770     | ng | # 97   |
| 73) Di-n-butylphthalate        | 11.94 | 149 | 303151 | 12.649    | ng | # 99   |
| 74) Fluoranthene               | 12.62 | 202 | 339732 | 18.025    | ng | # 99   |
| 77) Pyrene                     | 12.85 | 202 | 427039 | 25.548    | ng | # 99   |
| 80) Benzo(a)anthracene         | 14.04 | 228 | 154871 | 11.134    | ng | # 95   |
| 82) Chrysene                   | 14.08 | 228 | 143537 | 10.627    | ng | # 95   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.13 | 276 | 36985  | 3.459     | ng | # 96   |
| 87) Benzo(b)fluoranthene       | 15.13 | 252 | 130882 | 11.799    | ng | # 83   |
| 88) Benzo(k)fluoranthene       | 15.13 | 252 | 131089 | 12.549    | ng | # 86   |
| 89) Benzo(a)pyrene             | 15.51 | 252 | 82771  | 8.356     | ng | # 87   |
| 91) Benzo(a,h,i)perylene       | 17.61 | 276 | 39080  | 5.224     | ng | # 85   |

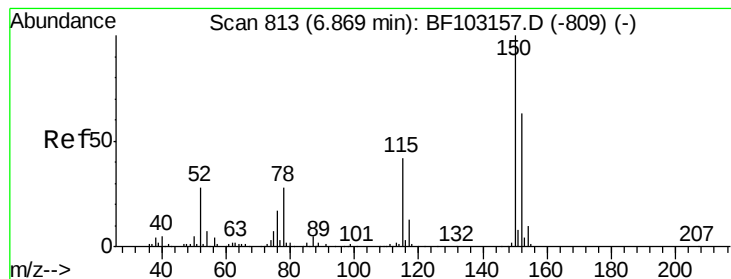
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 14 18:12:08 2018  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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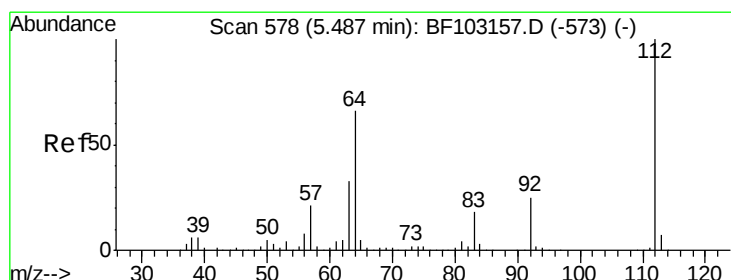
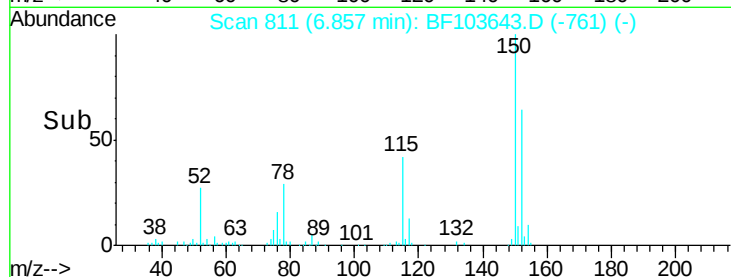
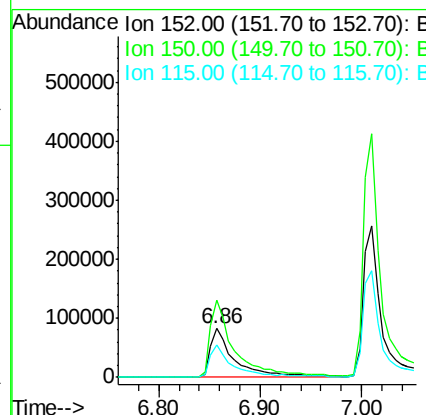
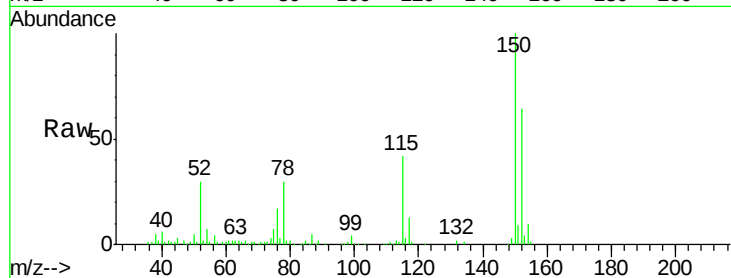


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 811  
Delta R.T. -0.01 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Instrument :  
BNA\_F  
ClientSampled :

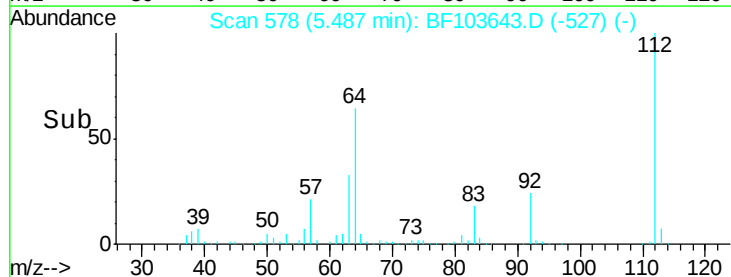
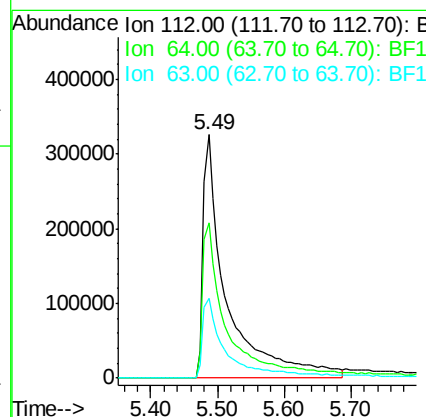
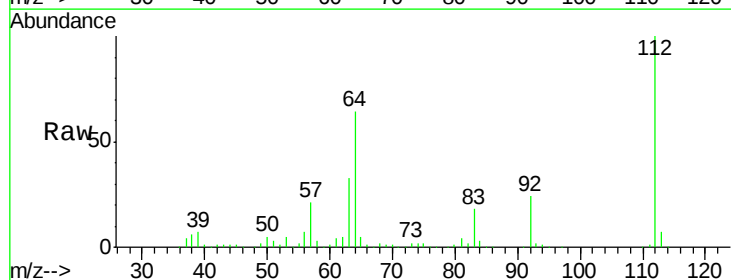
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 124.6 | 186.8 |
| 115     | 65.5  | 50.1  | 75.1  |

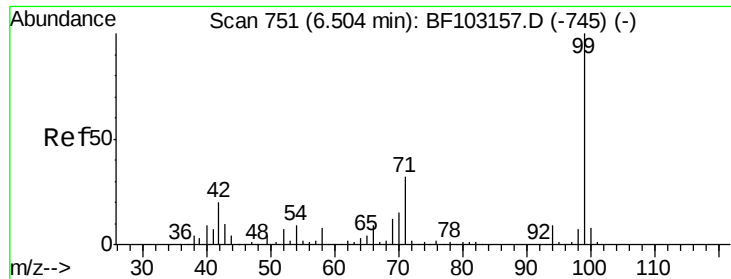


#5

2-Fluorophenol  
Concen: 83.917 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.7  | 47.9  | 71.9  |
| 63      | 33.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 96.002 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

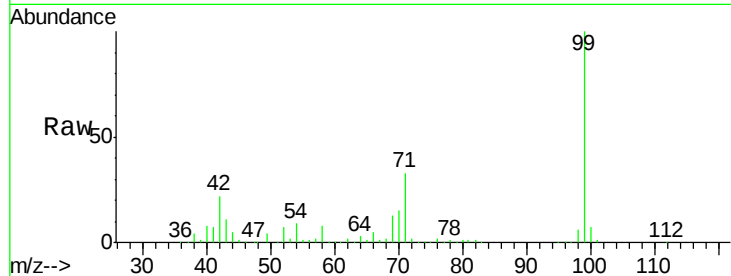
Tot Ion: 99 Resp: 1103716

Ion Ratio Lower Upper

99 100

42 21.5 14.5 21.7

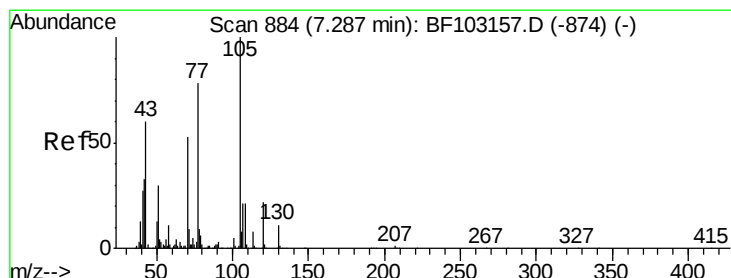
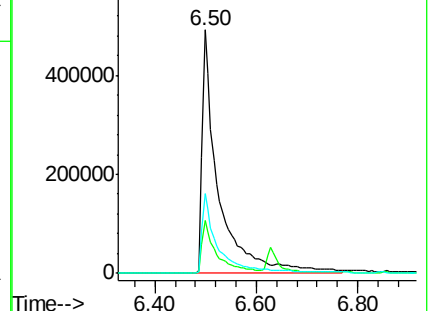
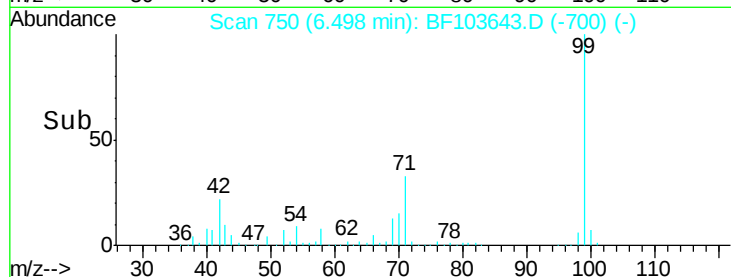
71 32.5 25.4 38.0



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: 11.964 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.16 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Tgt Ion: 70 Resp: 85607

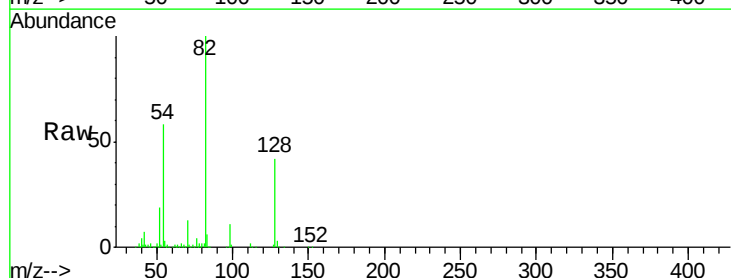
Ion Ratio Lower Upper

70 100

42 57.9 47.5 71.3

101 0.0 7.4 11.2#

130 1.5 16.6 25.0#

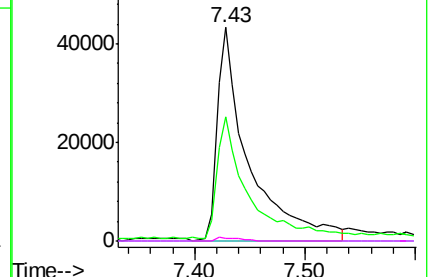
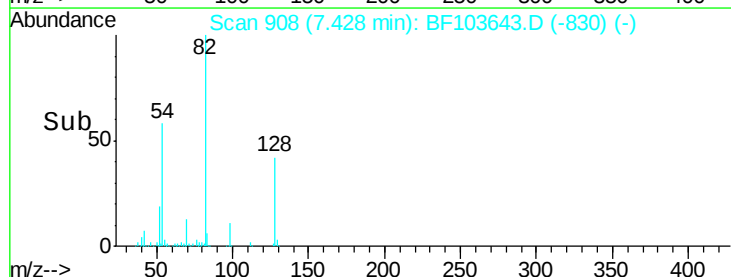


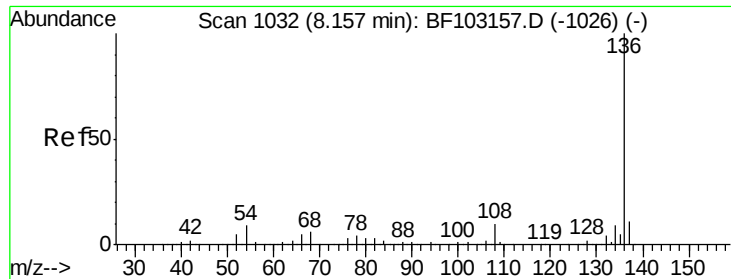
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

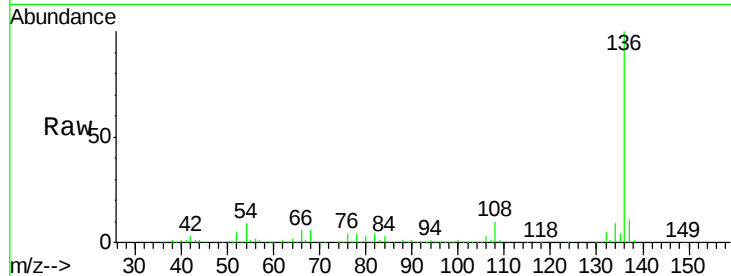




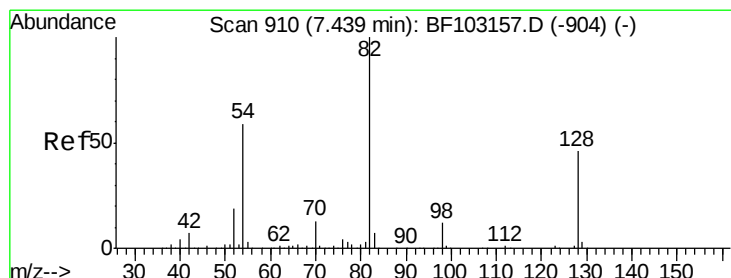
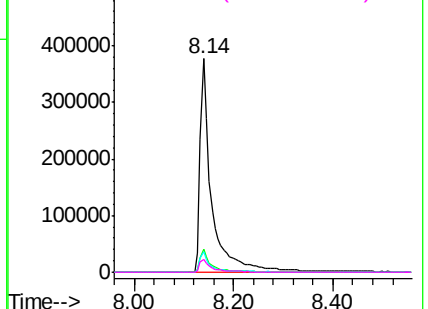
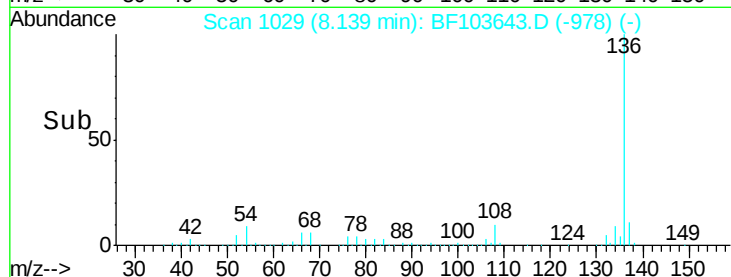
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Instrument :  
BNA\_F  
ClientSampled :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 612793   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 8.9 13.3 |
| 54          | 9.3   | 6.6 9.8  |
| 68          | 5.9   | 5.0 7.4  |

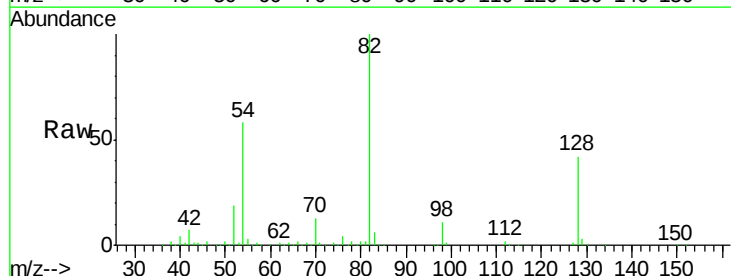


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

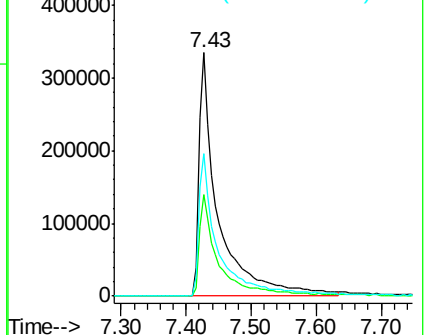
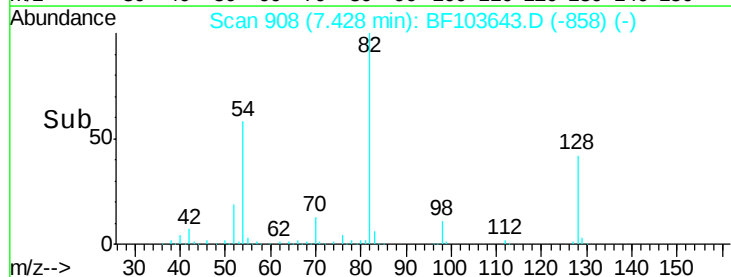


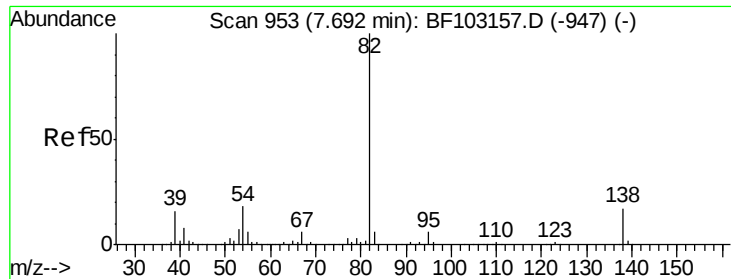
#23  
Nitrobenzene-d5  
Concen: 63.608 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.01 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 682532    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 41.6  | 36.1 54.1 |
| 54          | 58.4  | 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: 32.296 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.25 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

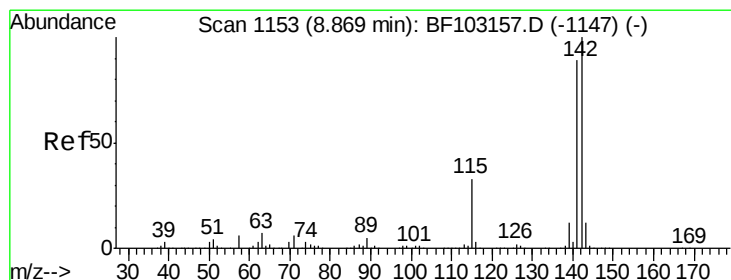
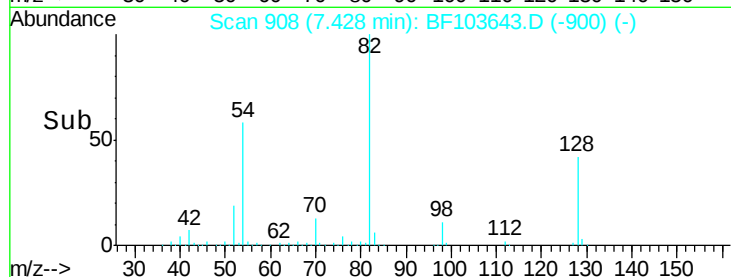
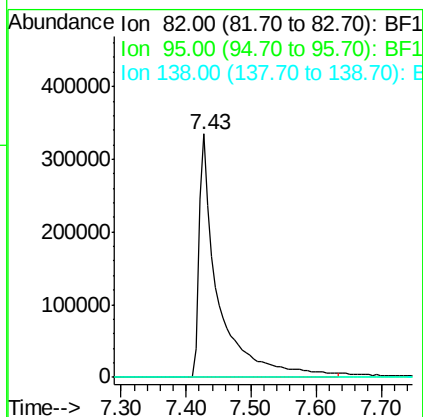
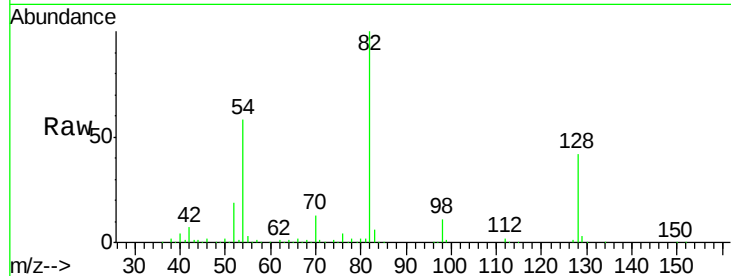
Tot Ion: 82 Resp: 682532

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#37

2-Methylnaphthalene

Concen: 2.741 ng

RT: 8.86 min Scan# 1151

Delta R.T. 0.01 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

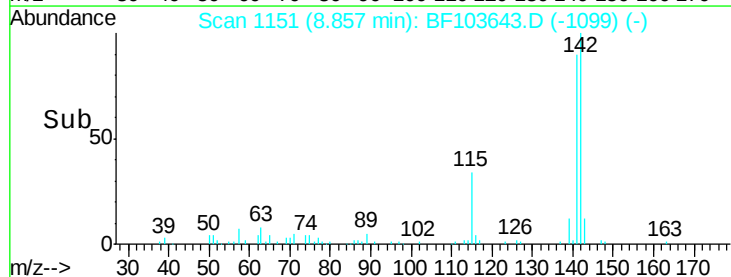
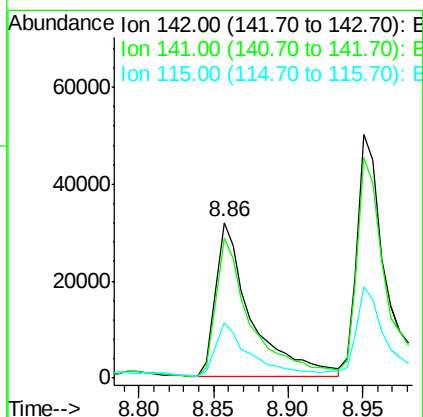
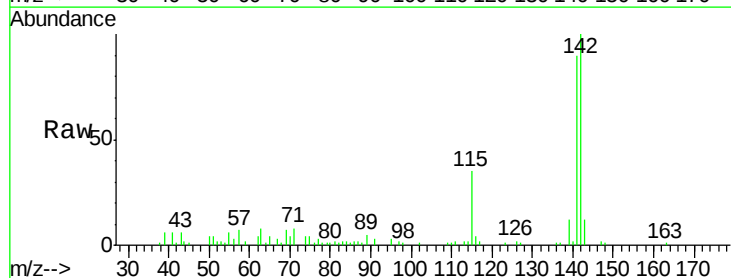
Tgt Ion: 142 Resp: 53137

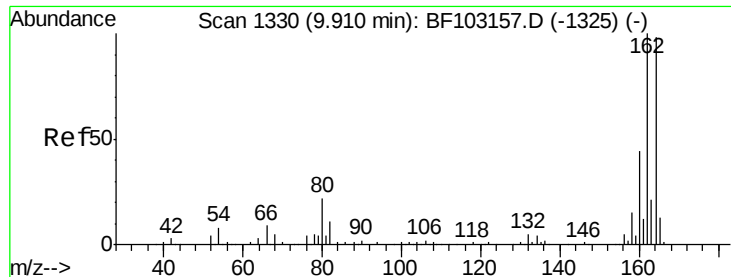
Ion Ratio Lower Upper

142 100

141 89.9 70.8 106.2

115 35.4 26.1 39.1

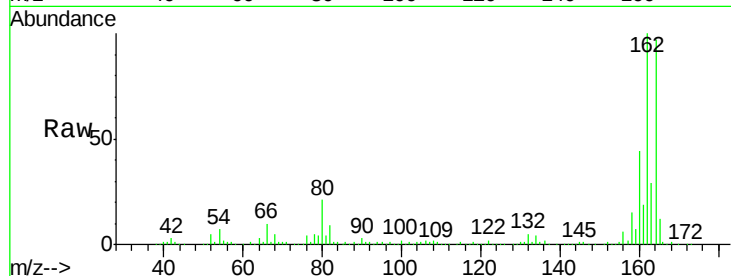




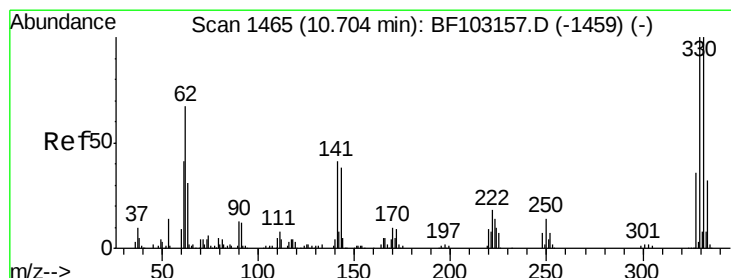
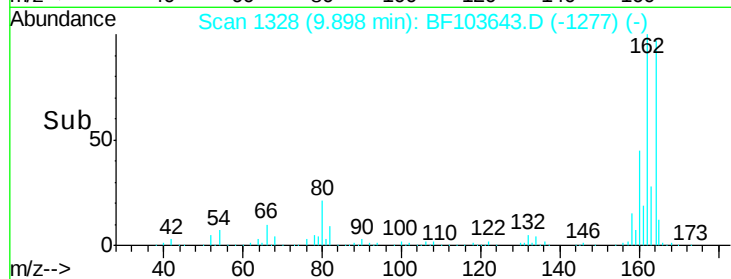
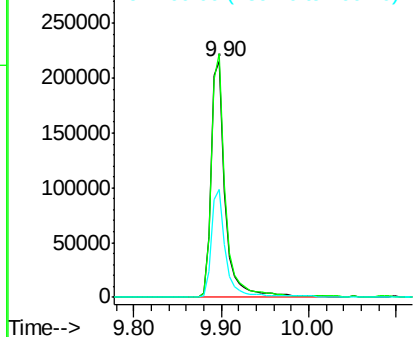
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 244962  
Ion Ratio Lower Upper  
164 100  
162 103.2 86.1 129.1  
160 45.9 38.3 57.5

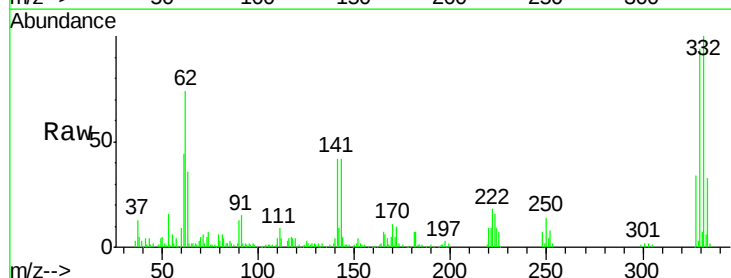


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

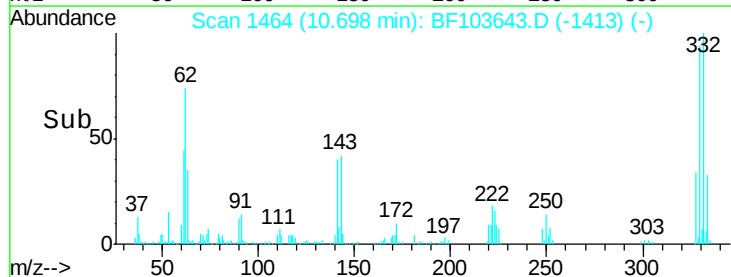
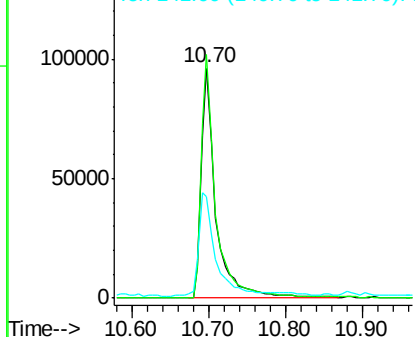


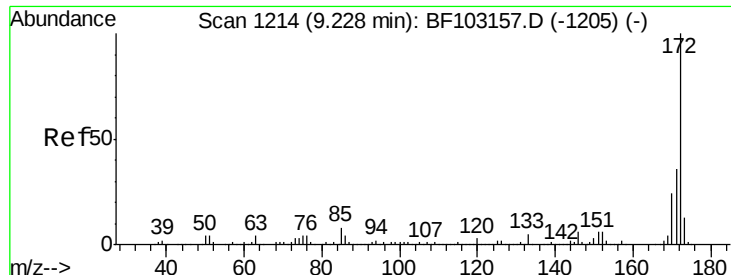
#41  
2,4,6-Tribromophenol  
Concen: 62.462 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Tgt Ion:330 Resp: 129513  
Ion Ratio Lower Upper  
330 100  
332 104.5 77.0 115.6  
141 50.4 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

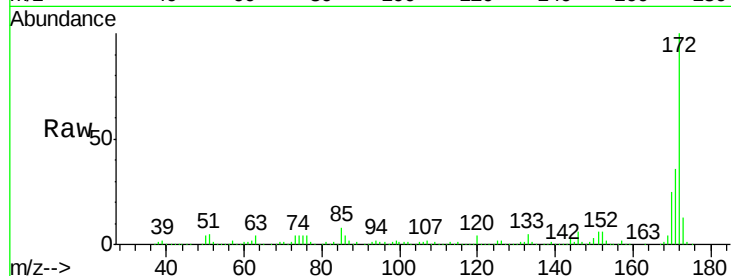




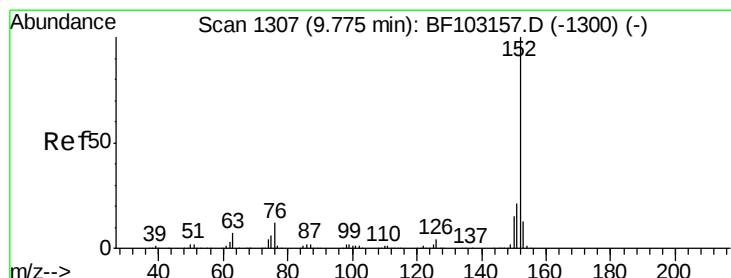
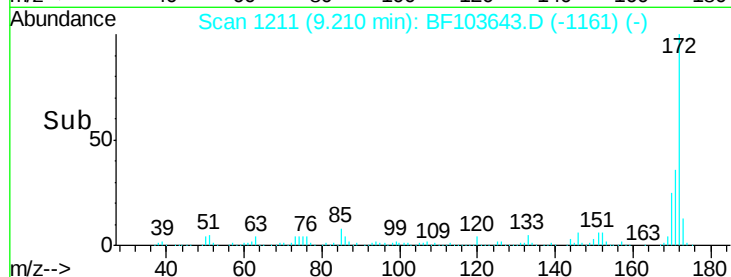
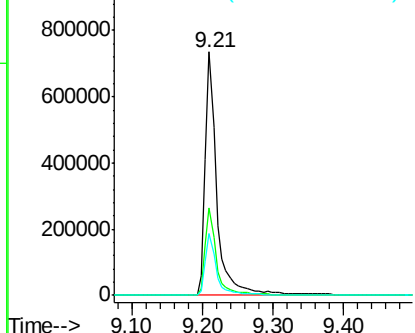
#44  
2-Fluorobiphenyl  
Concen: 55.212 ng  
RT: 9.21 min Scan# 1211  
Delta R.T. -0.01 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 856038  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.7 44.5  
170 25.2 19.6 29.4

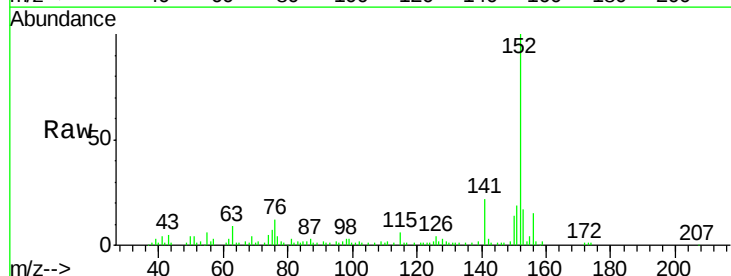


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

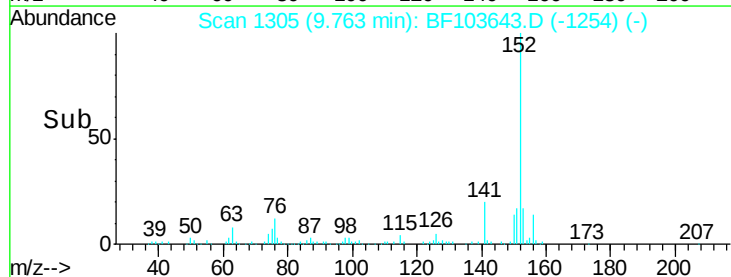
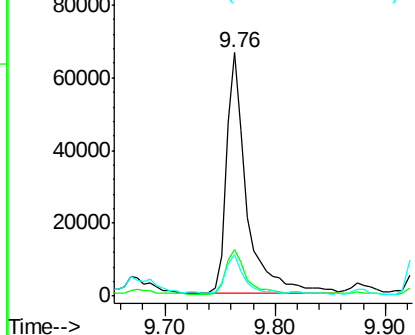


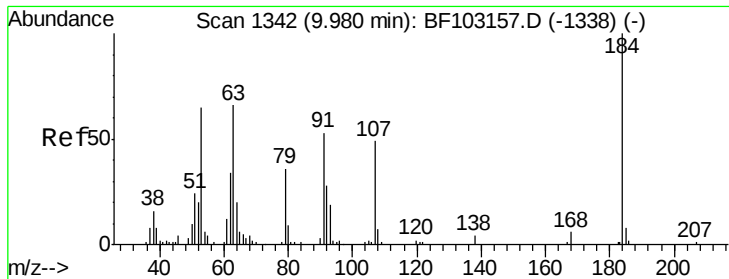
#48  
Acenaphthylene  
Concen: 3.357 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Tgt Ion:152 Resp: 83883  
Ion Ratio Lower Upper  
152 100  
151 19.1 16.3 24.5  
153 17.1 10.7 16.1#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#53

2,4-Dinitrophenol

Concen: 9.694 ng

RT: 10.25 min Scan# 1388

Delta R.T. 0.22 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

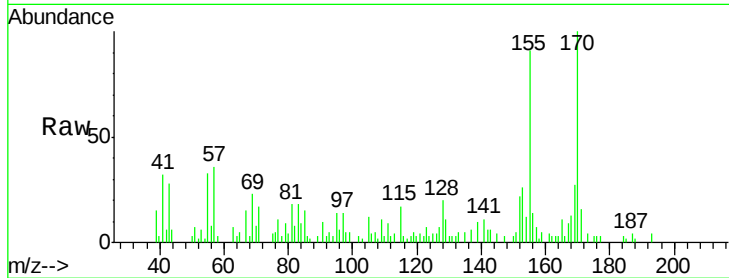
Tot Ion:184 Resp: 124

Ion Ratio Lower Upper

184 100

63 265.1 54.2 81.2#

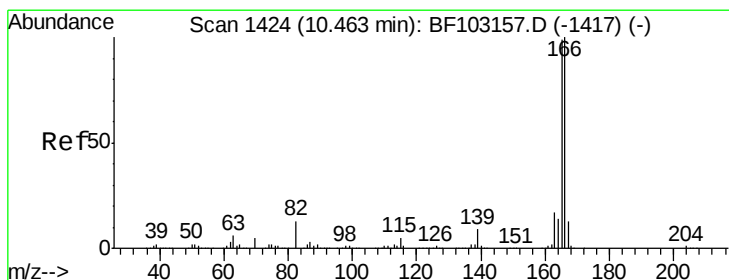
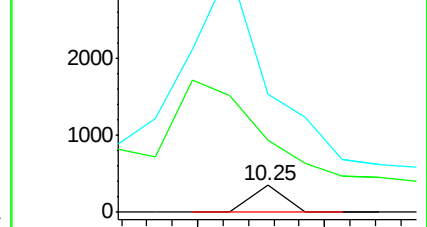
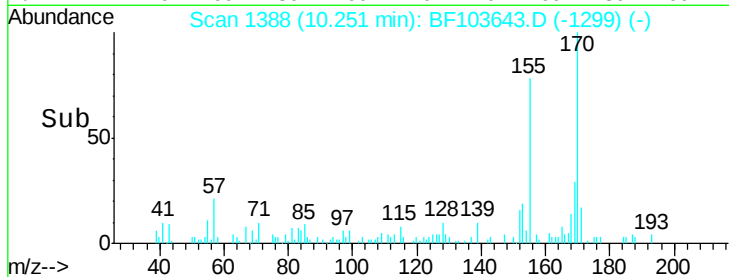
154 436.1 184.0 276.0#



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



#57

Fluorene

Concen: 4.571 ng

RT: 10.45 min Scan# 1422

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

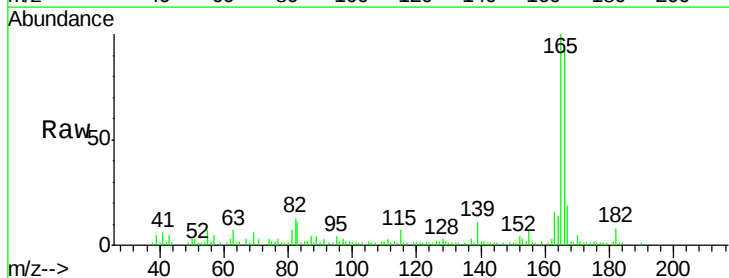
Tgt Ion:166 Resp: 77878

Ion Ratio Lower Upper

166 100

165 107.7 79.8 119.8

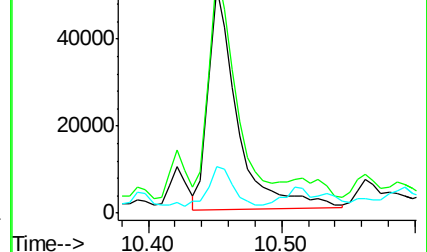
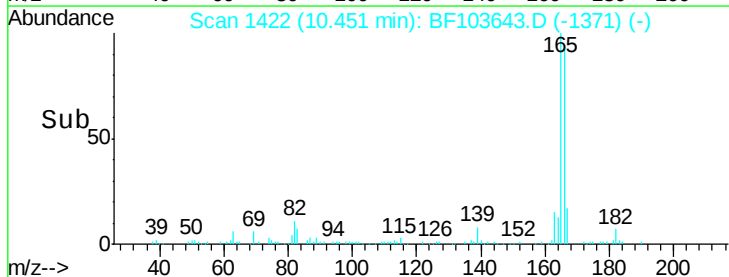
167 20.3 10.6 16.0#

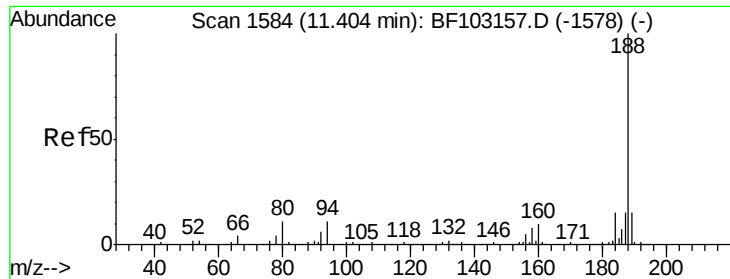


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

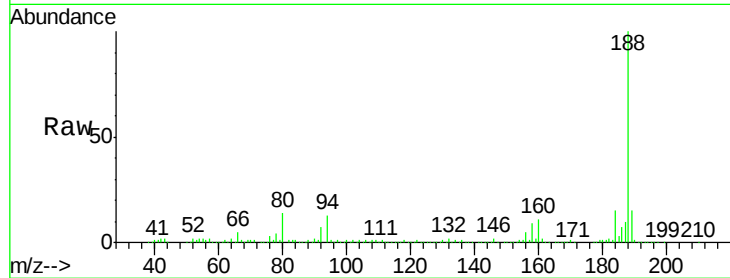




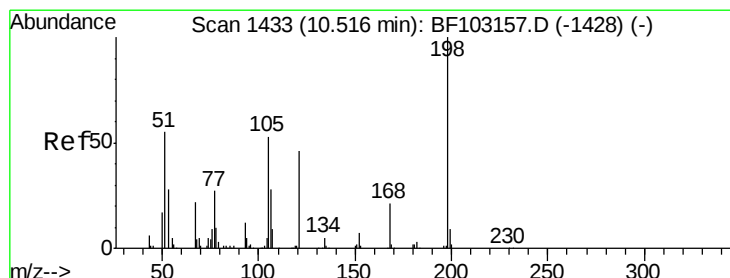
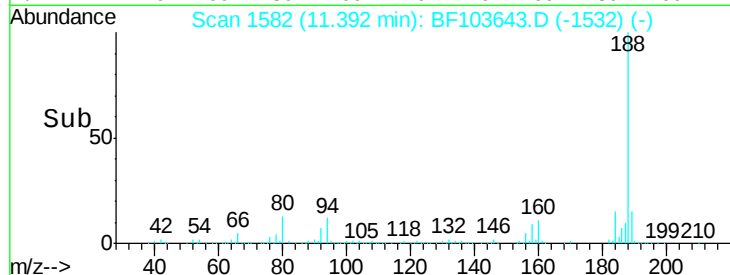
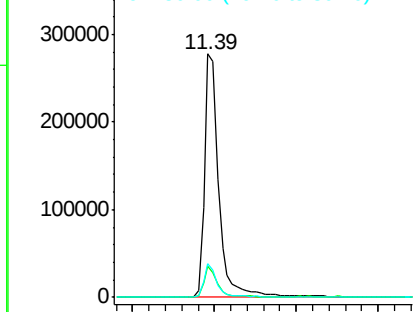
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1582  
 Delta R.T. -0.01 min  
 Lab File: BF103643.D  
 Acq: 14 Mar 2018 16:25

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:188 Resp: 340814  
 Ion Ratio Lower Upper  
 188 100  
 94 12.6 8.5 12.7  
 80 13.6 9.2 13.8

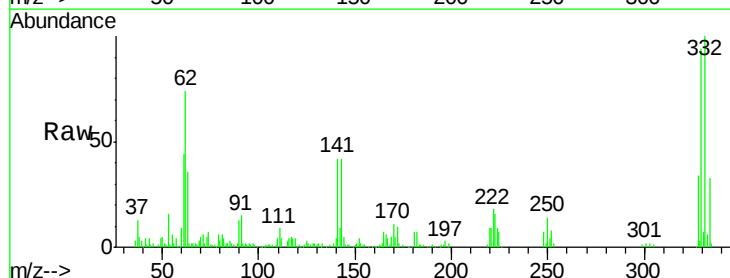


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

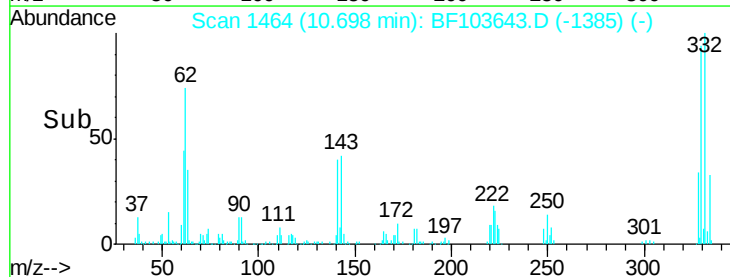
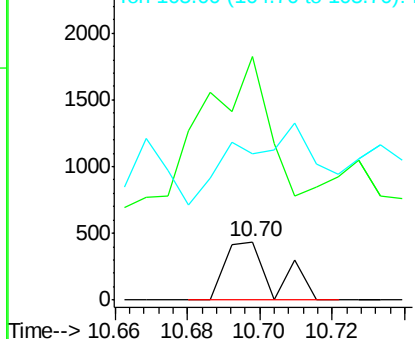


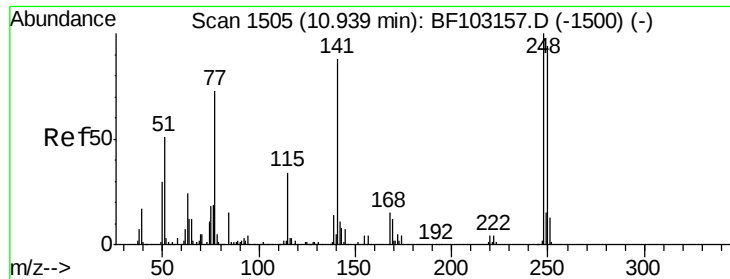
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.122 ng  
 RT: 10.70 min Scan# 1464  
 Delta R.T. 0.16 min  
 Lab File: BF103643.D  
 Acq: 14 Mar 2018 16:25

Tgt Ion:198 Resp: 408  
 Ion Ratio Lower Upper  
 198 100  
 51 416.4 37.7 77.7#  
 105 250.5 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

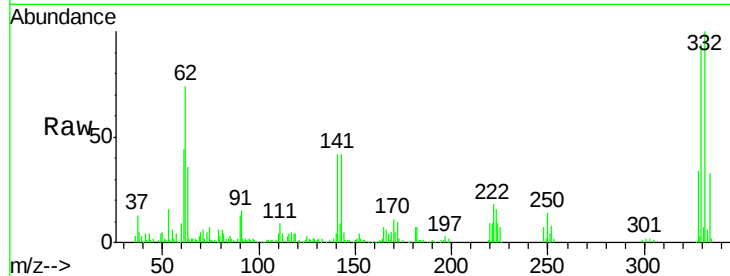




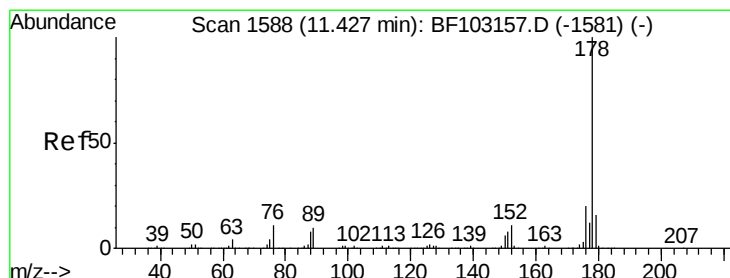
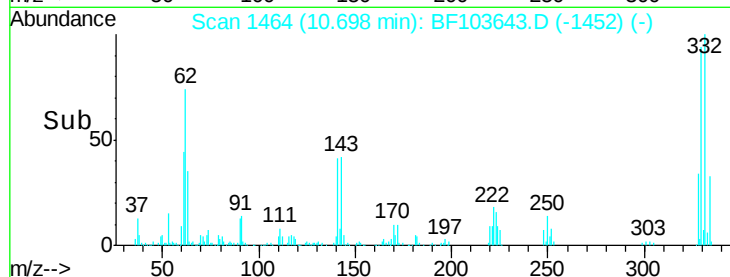
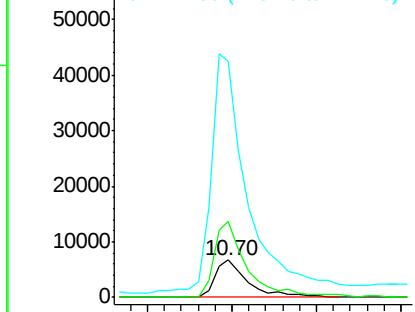
#66  
4-Bromophenyl-phenylether  
Concen: 2.566 ng  
RT: 10.70 min Scan# 1464  
Delta R.T. -0.23 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 9110  
Ion Ratio Lower Upper  
248 100  
250 205.5 76.9 115.3#  
141 634.0 74.4 111.6#

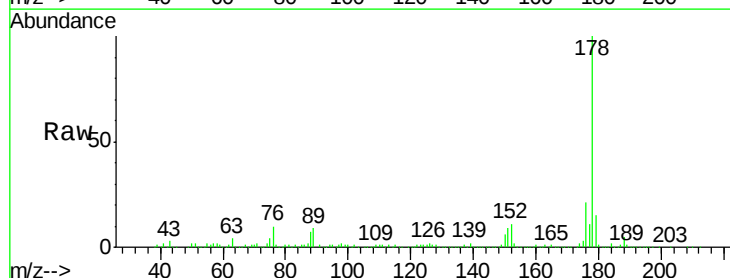


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

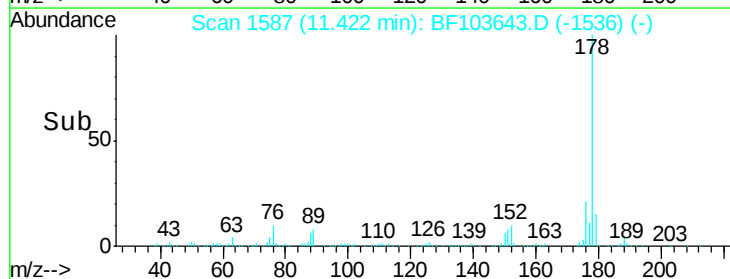
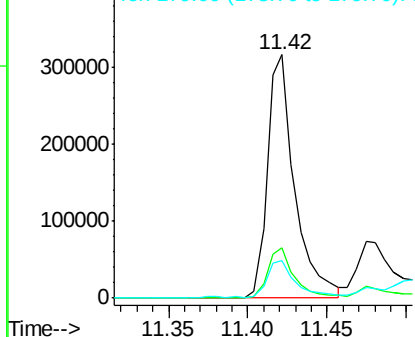


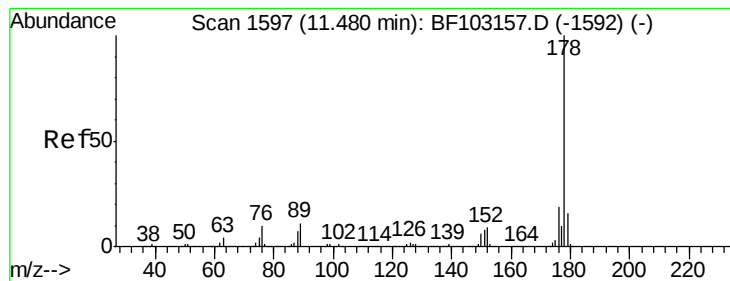
#70  
Phenanthrene  
Concen: 20.150 ng  
RT: 11.42 min Scan# 1587  
Delta R.T. 0.00 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Tgt Ion:178 Resp: 377926  
Ion Ratio Lower Upper  
178 100  
176 20.7 15.8 23.8  
179 15.3 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: 5.770 ng

RT: 11.47 min Scan# 1596

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

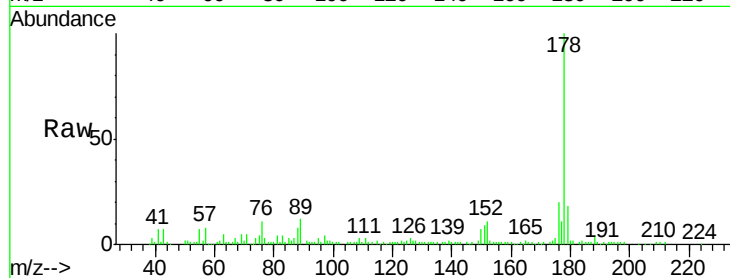
Tot Ion:178 Resp: 110967

Ion Ratio Lower Upper

178 100

176 20.1 15.4 23.2

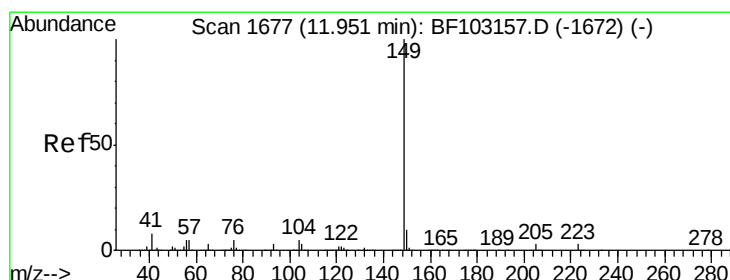
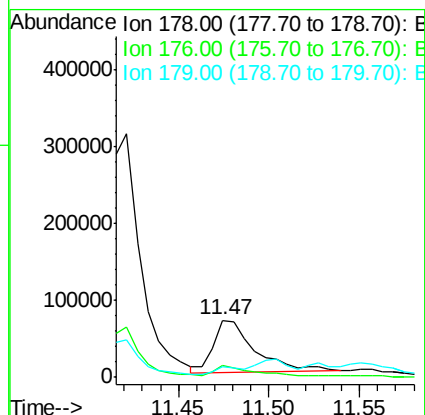
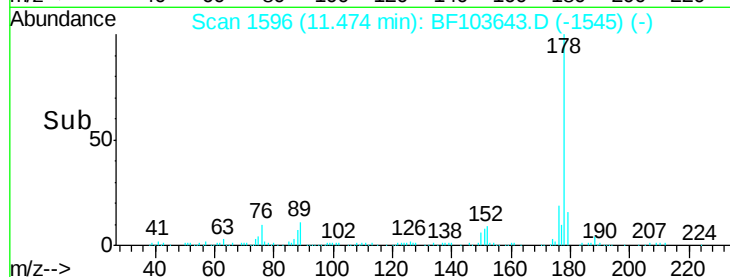
179 17.8 12.6 19.0



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



#73

Di-n-butylphthalate

Concen: 12.649 ng

RT: 11.94 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

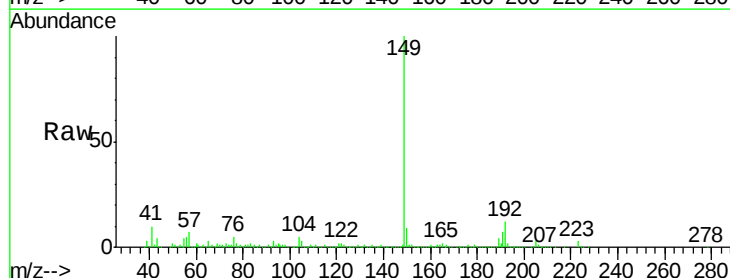
Tgt Ion:149 Resp: 303151

Ion Ratio Lower Upper

149 100

150 9.1 7.8 11.6

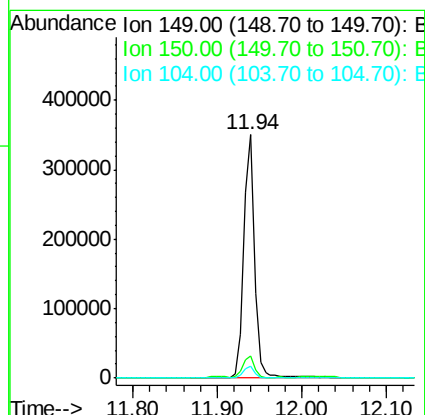
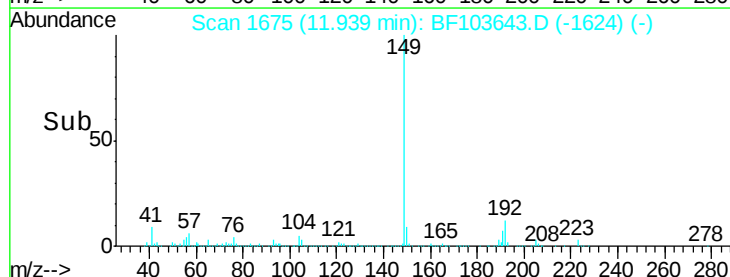
104 5.1 3.8 5.8

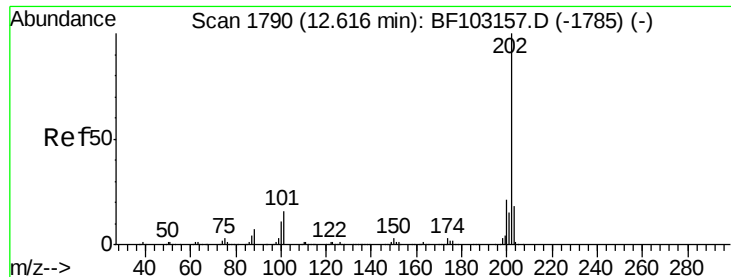


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 18.025 ng

RT: 12.62 min Scan# 1790

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

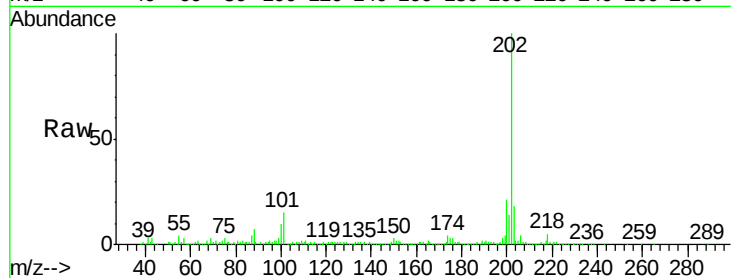
Tot Ion:202 Resp: 339732

Ion Ratio Lower Upper

202 100

101 14.9 0.0 34.1

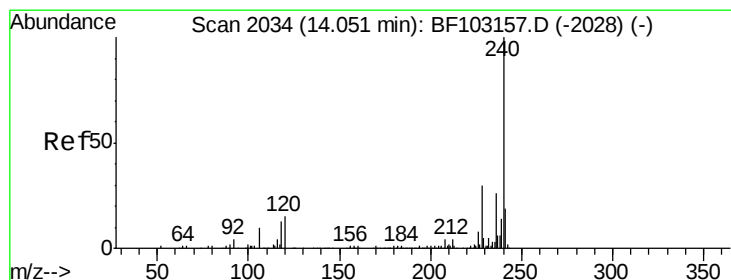
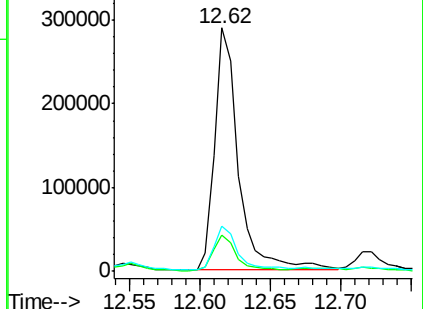
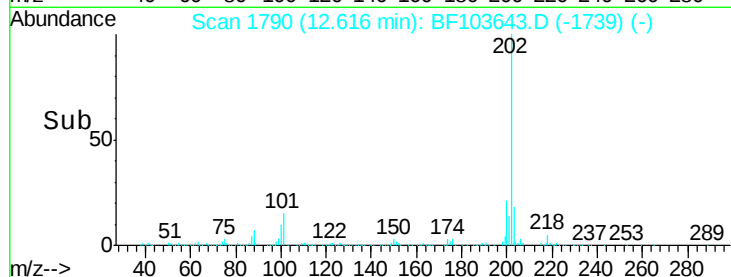
203 18.5 0.0 38.1



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. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

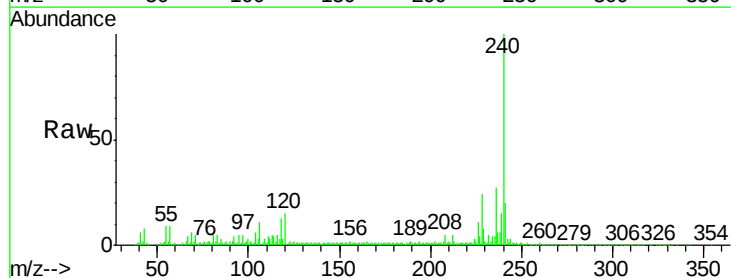
Tgt Ion:240 Resp: 214386

Ion Ratio Lower Upper

240 100

120 14.8 9.5 14.3#

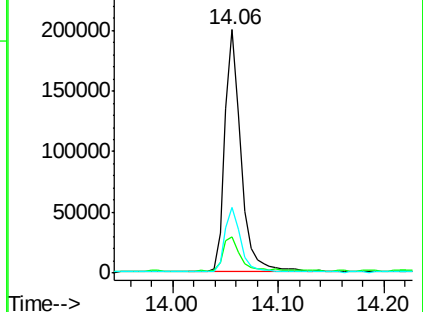
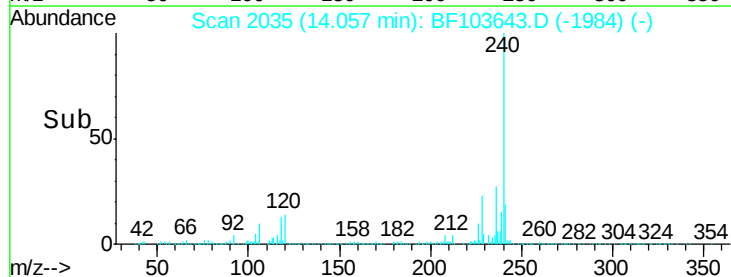
236 27.1 20.7 31.1

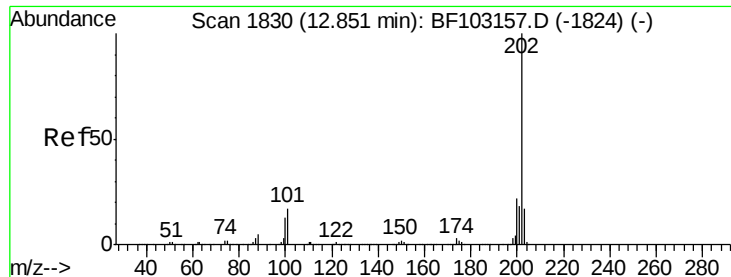


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 25.548 ng

RT: 12.85 min Scan# 1830

Delta R.T. 0.01 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampled :

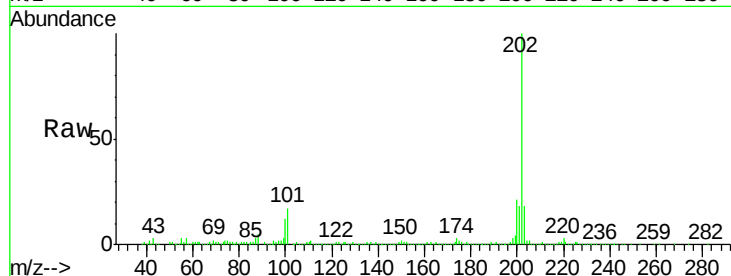
Tot Ion:202 Resp: 427039

Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.2

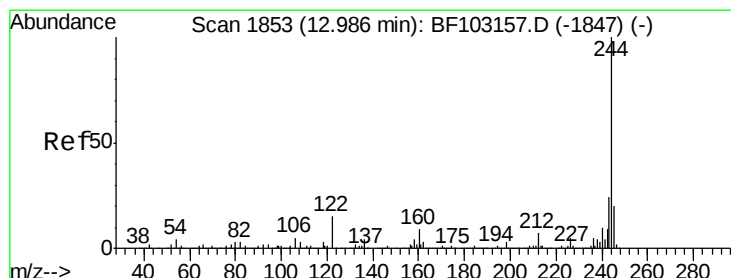
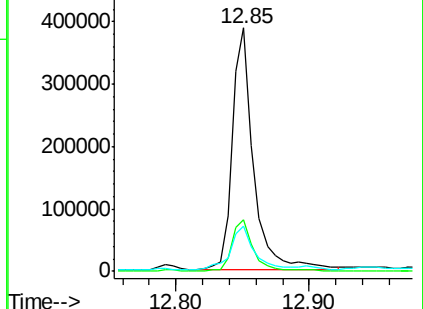
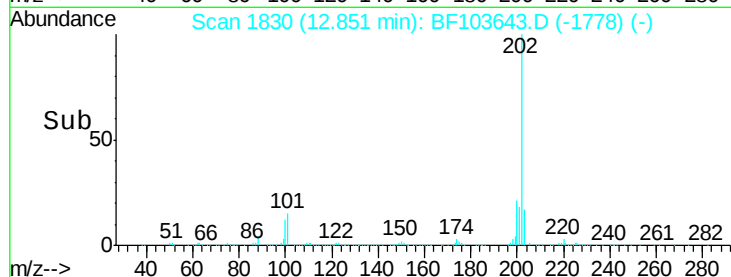
203 18.4 14.3 21.5



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: 54.439 ng

RT: 12.98 min Scan# 1852

Delta R.T. 0.01 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

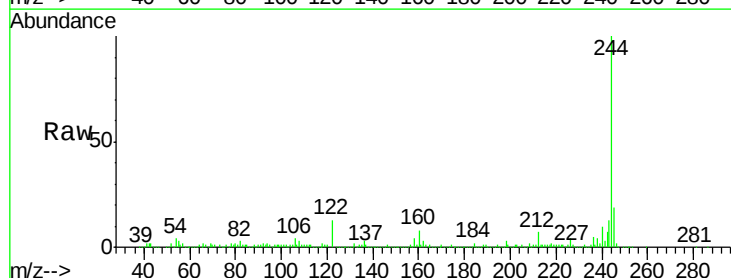
Tgt Ion:244 Resp: 485510

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

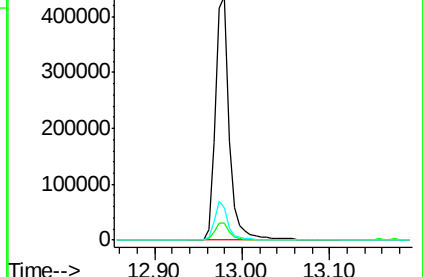
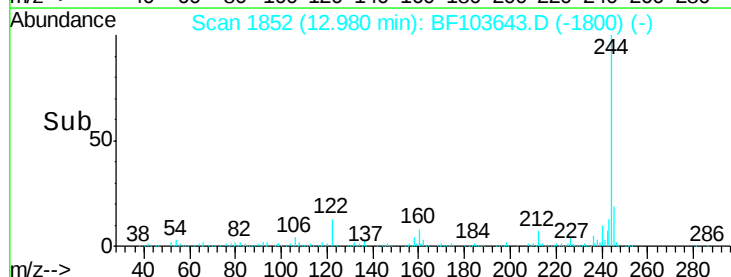
122 13.2 11.0 16.4

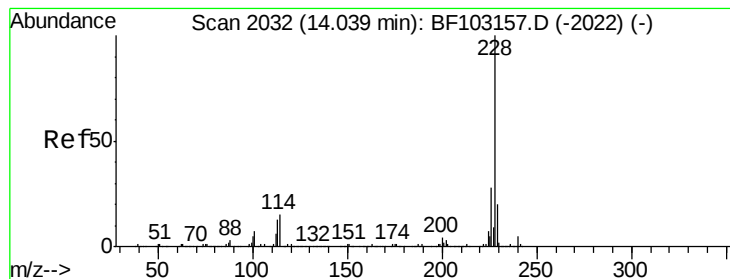


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.134 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

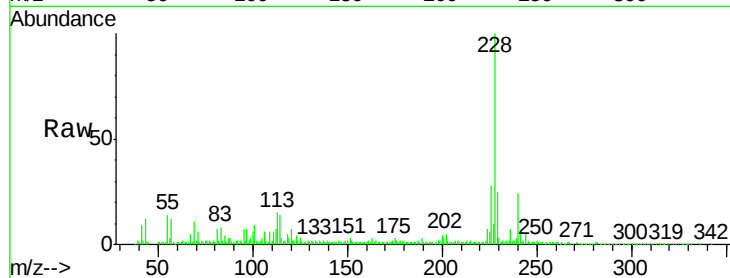
Tot Ion:228 Resp: 154871

Ion Ratio Lower Upper

228 100

226 28.3 22.6 33.8

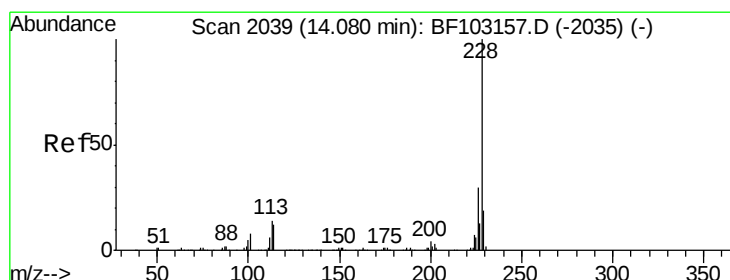
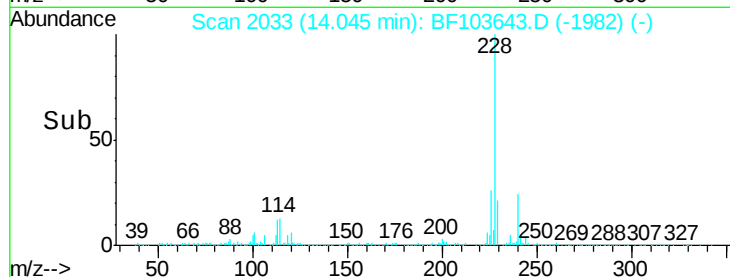
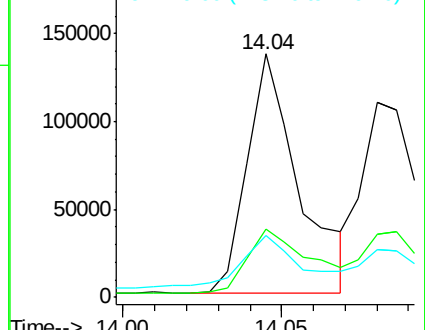
229 25.3 15.8 23.6#



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: 10.627 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.00 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

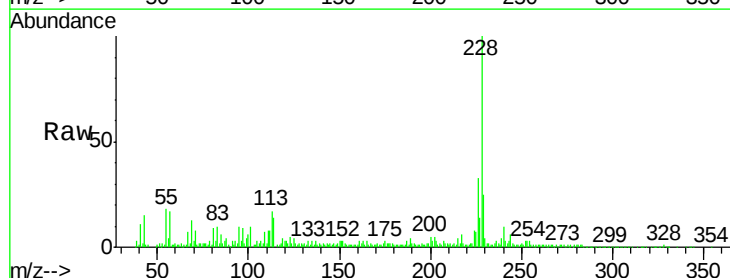
Tgt Ion:228 Resp: 143537

Ion Ratio Lower Upper

228 100

226 32.6 25.0 37.6

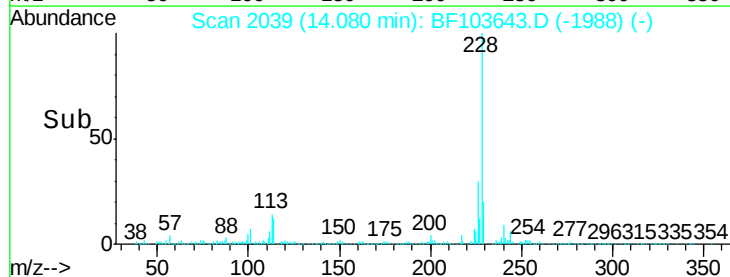
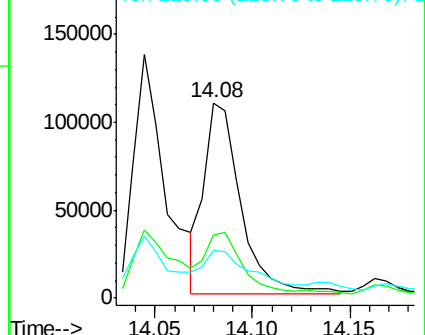
229 24.7 16.2 24.4#

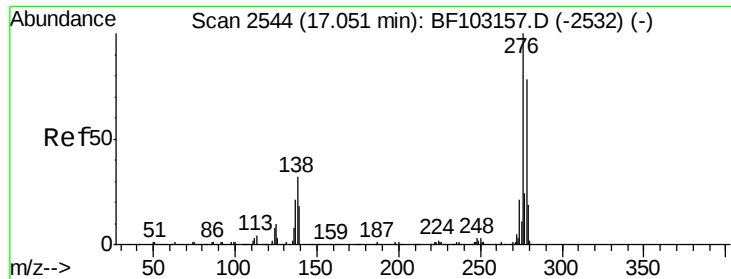


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

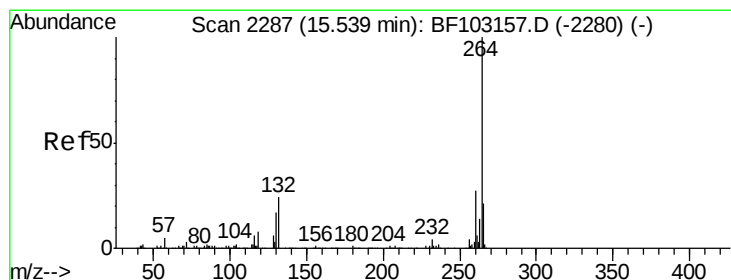
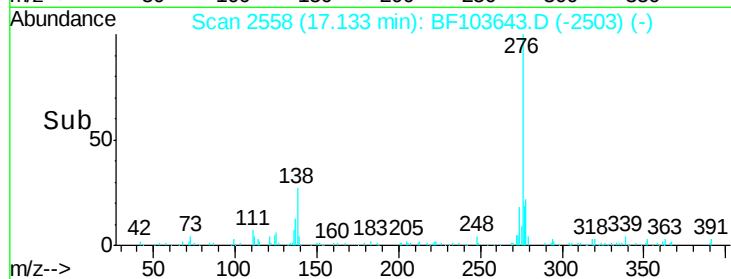
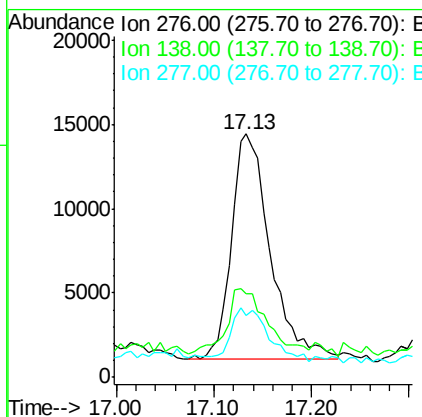
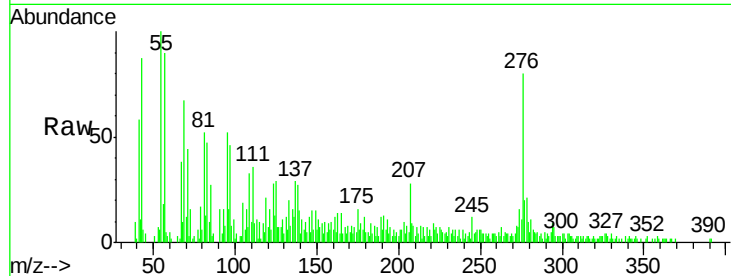




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.459 ng  
 RT: 17.13 min Scan# 2558  
 Delta R.T. 0.02 min  
 Lab File: BF103643.D  
 Acq: 14 Mar 2018 16:25

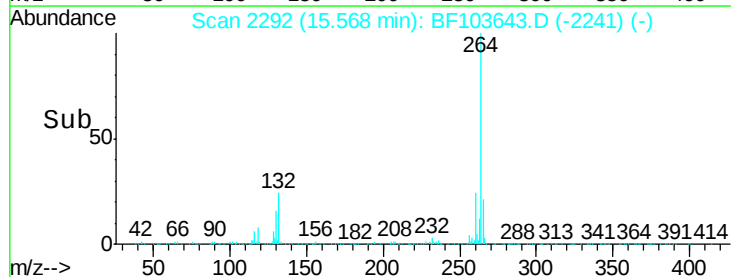
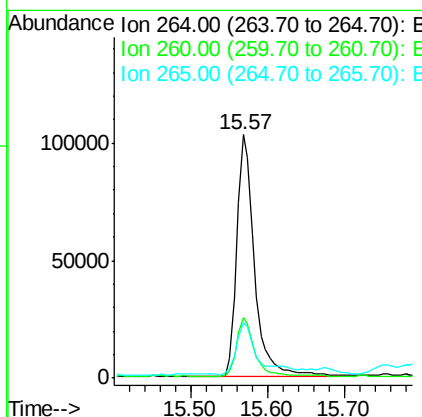
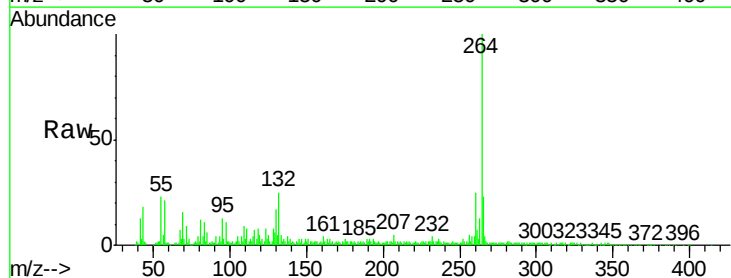
Instrument :  
 BNA\_F  
 ClientSampleId :

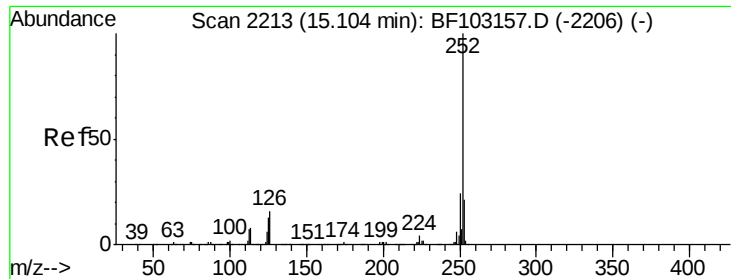
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.3  | 25.0  | 37.6  |
| 277     | 22.9  | 20.1  | 30.1  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.57 min Scan# 2292  
 Delta R.T. 0.00 min  
 Lab File: BF103643.D  
 Acq: 14 Mar 2018 16:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.2  | 28.8  |
| 265     | 22.6  | 17.5  | 26.3  |

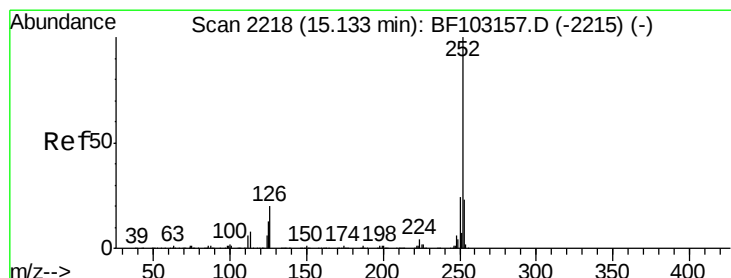
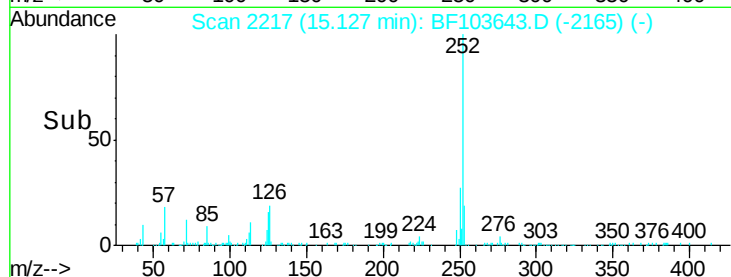
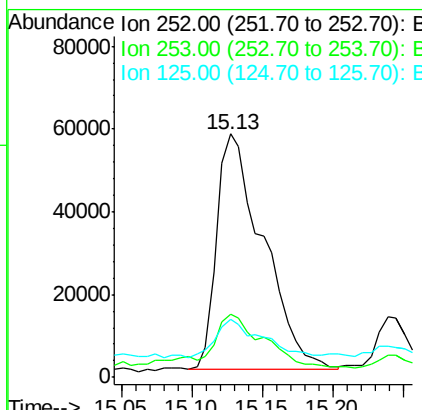
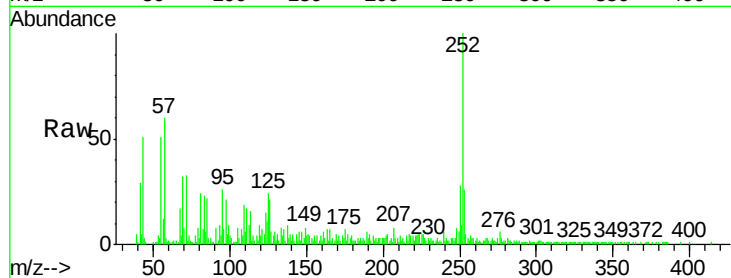




#87  
Benzo(b)fluoranthene  
Concen: 11.799 ng  
RT: 15.13 min Scan# 2217  
Delta R.T. 0.01 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

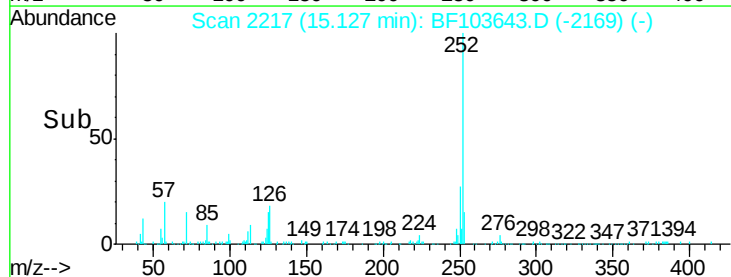
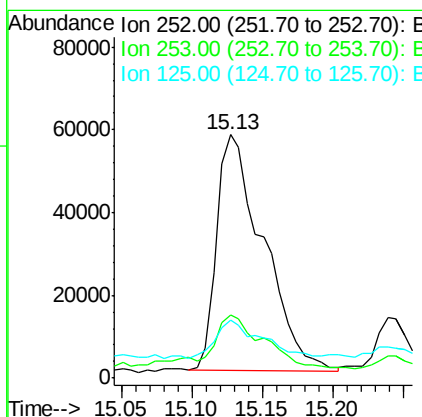
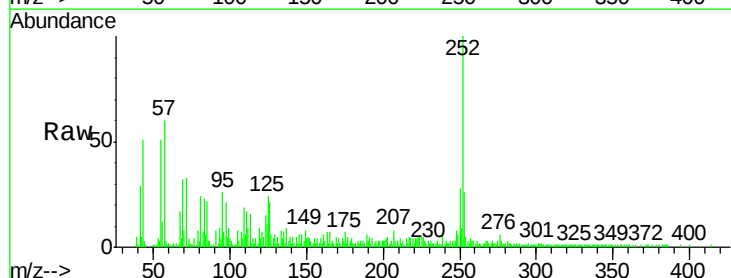
Instrument :  
BNA\_F  
ClientSampleId :

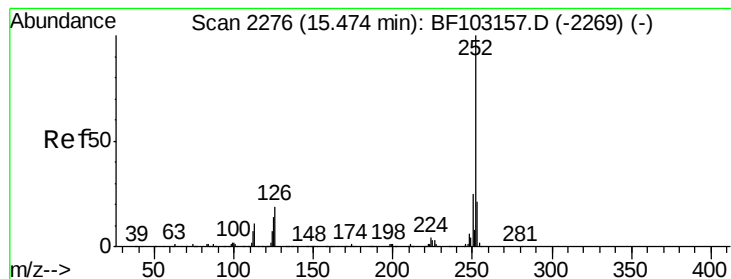
Tot Ion:252 Resp: 130882  
Ion Ratio Lower Upper  
252 100  
253 25.7 17.0 25.6#  
125 23.6 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 12.549 ng  
RT: 15.13 min Scan# 2217  
Delta R.T. -0.02 min  
Lab File: BF103643.D  
Acq: 14 Mar 2018 16:25

Tgt Ion:252 Resp: 131089  
Ion Ratio Lower Upper  
252 100  
253 25.7 17.9 26.9  
125 23.6 10.2 15.2#





#89

Benzo(a)pyrene

Concen: 8.356 ng

RT: 15.51 min Scan# 2282

Delta R.T. 0.01 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

Instrument :

BNA\_F

ClientSampleId :

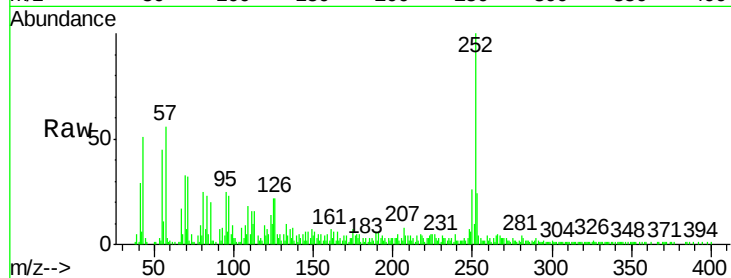
Tot Ion:252 Resp: 82771

Ion Ratio Lower Upper

252 100

253 24.1 17.1 25.7

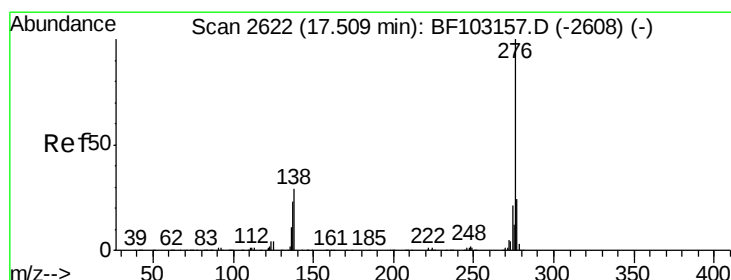
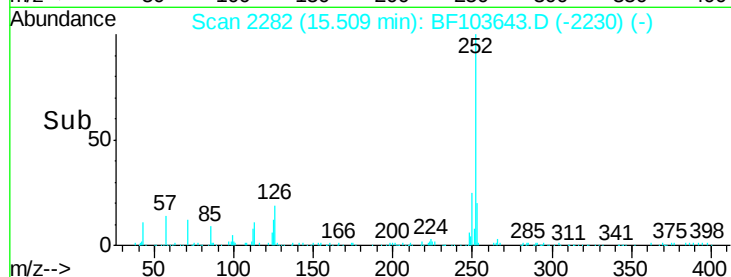
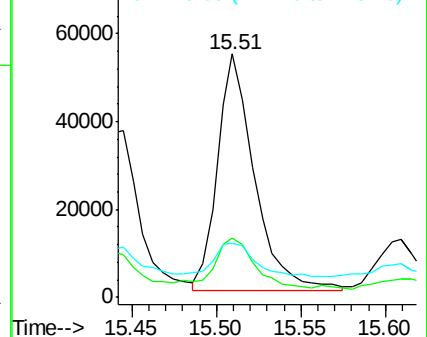
125 22.1 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 5.224 ng

RT: 17.61 min Scan# 2639

Delta R.T. 0.02 min

Lab File: BF103643.D

Acq: 14 Mar 2018 16:25

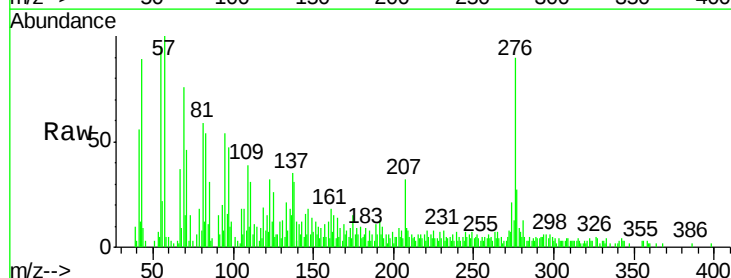
Tgt Ion:276 Resp: 39080

Ion Ratio Lower Upper

276 100

277 30.4 17.9 26.9#

138 34.8 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

