

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030618\  
 Data File : BF103458.D  
 Acq On : 6 Mar 2018 16:17  
 Operator : SJ/JU  
 Sample : J1723-11RE  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 06 17:18:55 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 06 11:52:59 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 115799   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 497972   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 197563   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 288216   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.10 | 240  | 202355   | 20.00 | ng    | 0.03     |
| 86) Perylene-d12          | 15.66 | 264  | 148358   | 20.00 | ng    | 0.09     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 750795 | 98.06  | ng | 0.00 |
| 7) Phenol-d6             | 6.51  | 99  | 948090 | 101.20 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.44  | 82  | 559787 | 64.20  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 125719 | 75.18  | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 751324 | 61.19  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 504059 | 59.88  | ng | 0.00 |

## Target Compounds

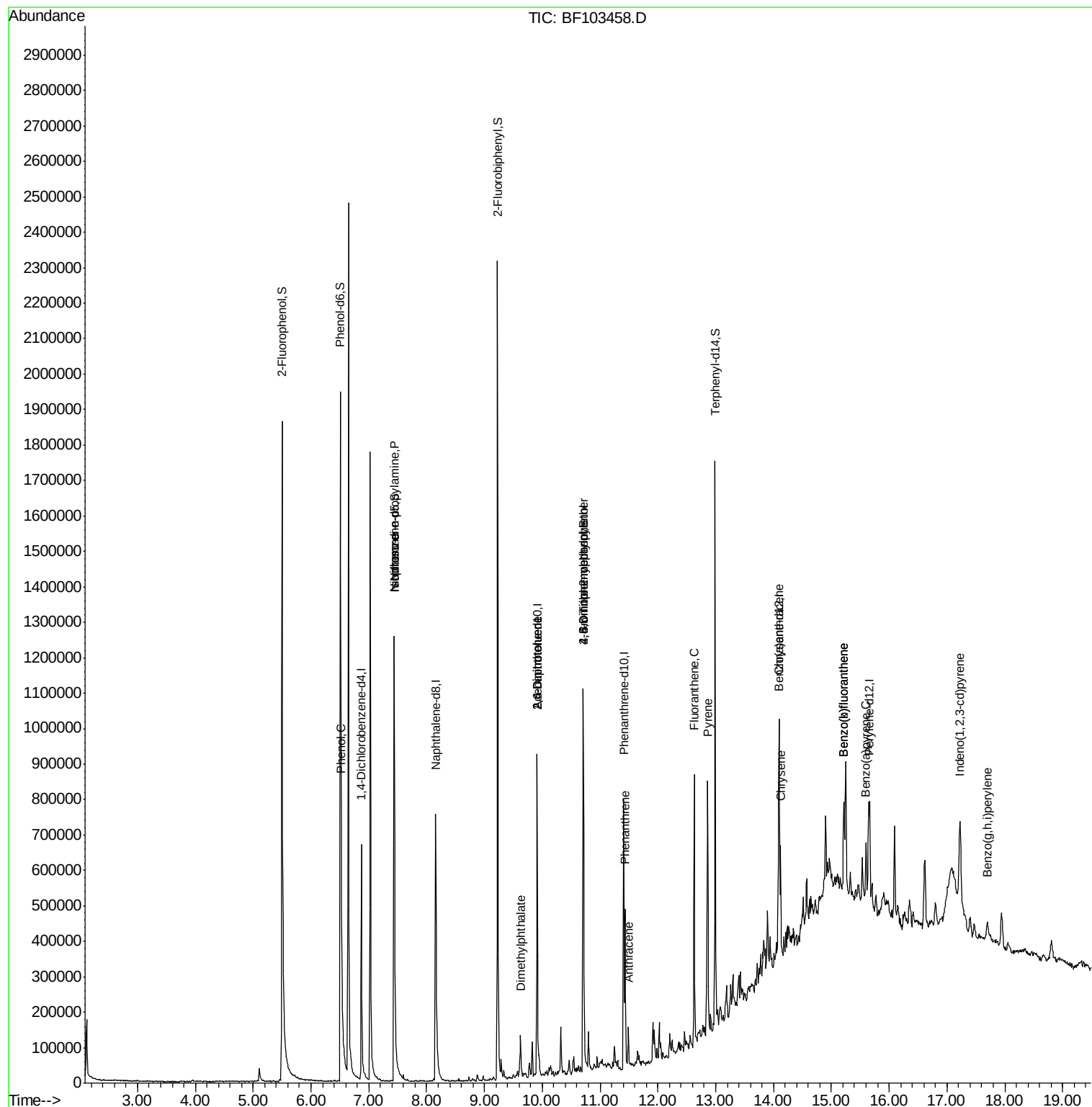
|                                |       |     |        |           | Qvalue |     |
|--------------------------------|-------|-----|--------|-----------|--------|-----|
| 9) Benzaldehyde                | 6.47  | 77  | 547    | Below Cal | #      | 1   |
| 10) Phenol                     | 6.53  | 94  | 26379  | 2.425 ng  | #      | 50  |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70  | 74591  | 12.792 ng | #      | 82  |
| 25) Isophorone                 | 7.44  | 82  | 559787 | 32.596 ng | #      | 64  |
| 49) Dimethylphthalate          | 9.62  | 163 | 49964  | 3.153 ng  |        | 98  |
| 50) 2,6-Dinitrotoluene         | 9.91  | 165 | 25557  | 7.684 ng  | #      | 26  |
| 56) 2,4-Dinitrotoluene         | 9.91  | 165 | 25553  | 6.075 ng  | #      | 24  |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198 | 114    | 5.004 ng  | #      | 1   |
| 66) 4-Bromophenyl-phenylether  | 10.71 | 248 | 8804   | 2.932 ng  | #      | 1   |
| 70) Phenanthrene               | 11.43 | 178 | 164415 | 10.366 ng |        | 100 |
| 71) Anthracene                 | 11.49 | 178 | 52258  | 3.213 ng  |        | 97  |
| 74) Fluoranthene               | 12.63 | 202 | 308290 | 19.342 ng |        | 98  |
| 77) Pyrene                     | 12.86 | 202 | 290842 | 18.435 ng |        | 99  |
| 80) Benzo(a)anthracene         | 14.09 | 228 | 150060 | 11.429 ng |        | 98  |
| 82) Chrysene                   | 14.12 | 228 | 134379 | 10.541 ng |        | 98  |
| 85) Indeno(1,2,3-cd)pyrene     | 17.22 | 276 | 47665  | 4.723 ng  |        | 98  |
| 87) Benzo(b)fluoranthene       | 15.22 | 252 | 182710 | 18.731 ng | #      | 90  |
| 88) Benzo(k)fluoranthene       | 15.22 | 252 | 182881 | 19.910 ng | #      | 93  |
| 89) Benzo(a)pyrene             | 15.60 | 252 | 92351  | 10.602 ng | #      | 89  |
| 91) Benzo(a,h,i)perylene       | 17.70 | 276 | 48796  | 7.418 ng  | #      | 88  |

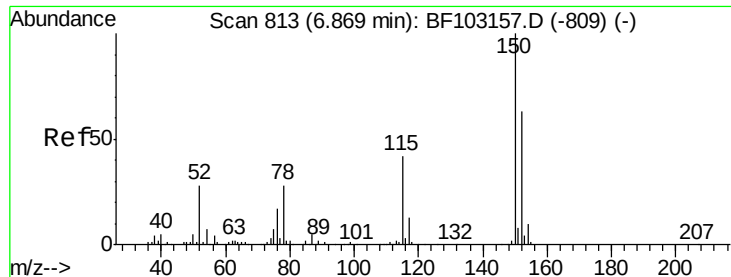
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF030618\  
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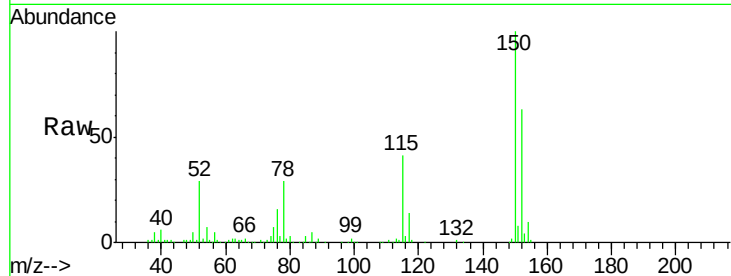


#1

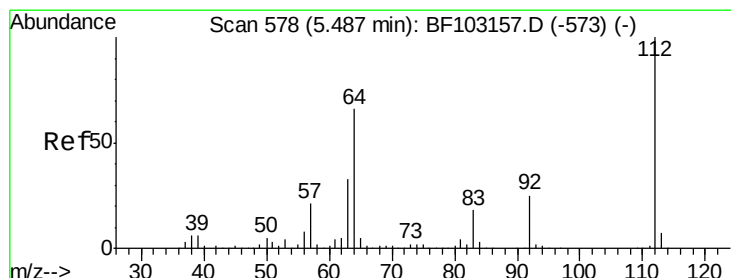
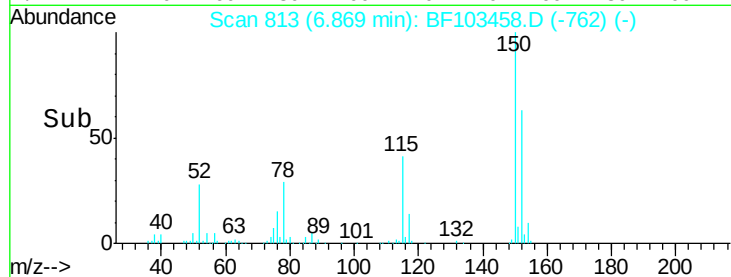
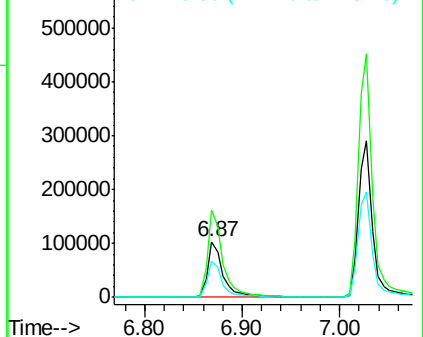
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 115799  
Ion Ratio Lower Upper  
152 100  
150 158.2 124.6 186.8  
115 65.3 50.1 75.1



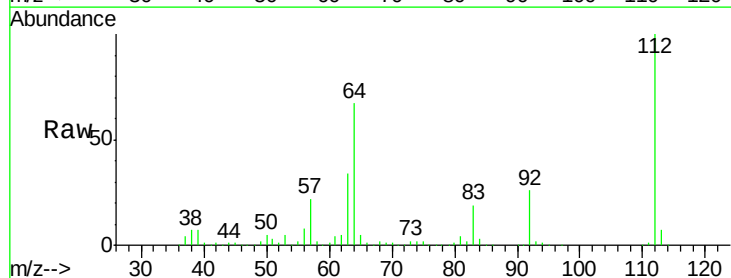
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



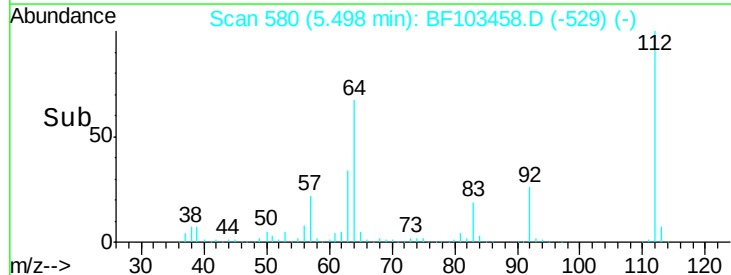
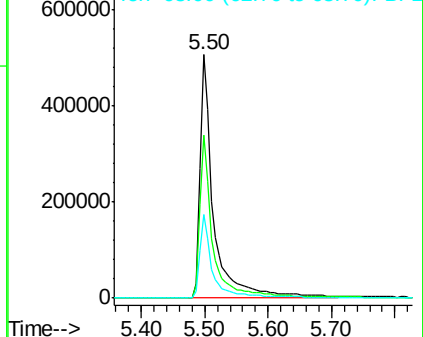
#5

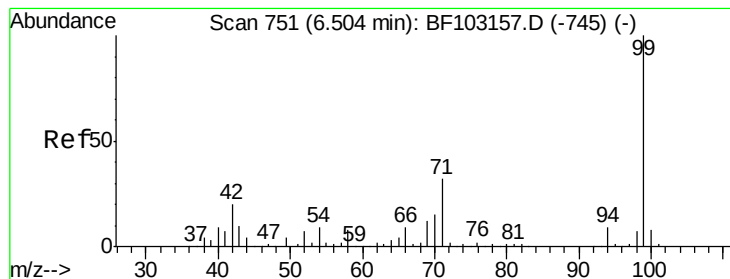
2-Fluorophenol  
Concen: 98.060 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Tgt Ion:112 Resp: 750795  
Ion Ratio Lower Upper  
112 100  
64 67.0 47.9 71.9  
63 34.3 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: 101.196 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

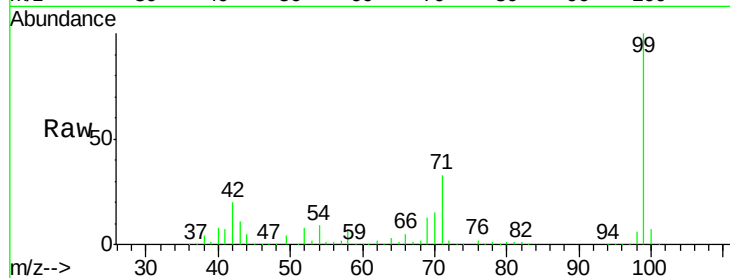
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 948090

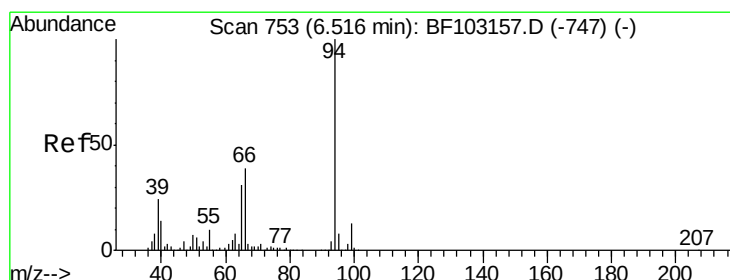
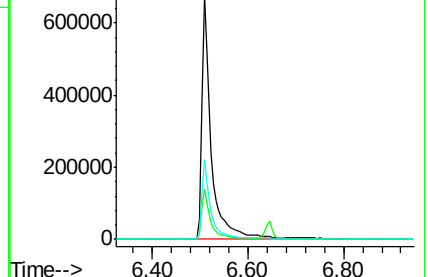
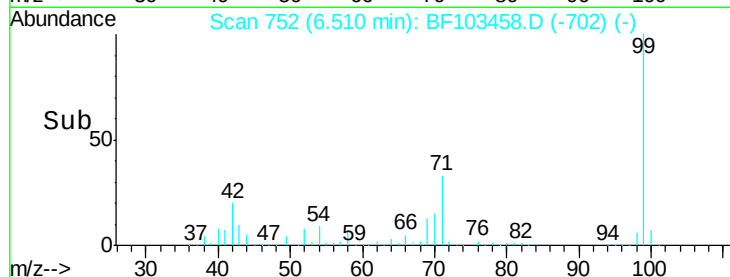
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 20.5  | 14.5  | 21.7  |
| 71  | 32.8  | 25.4  | 38.0  |



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: 2.425 ng

RT: 6.53 min Scan# 755

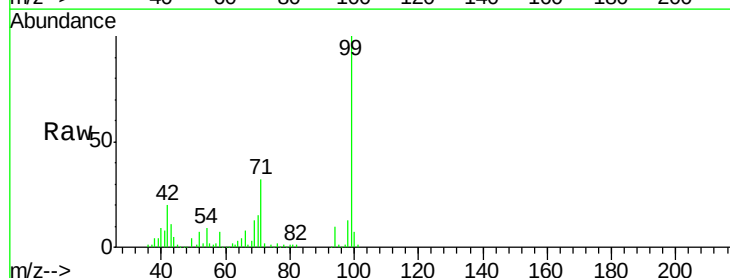
Delta R.T. -0.00 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Tgt Ion: 94 Resp: 26379

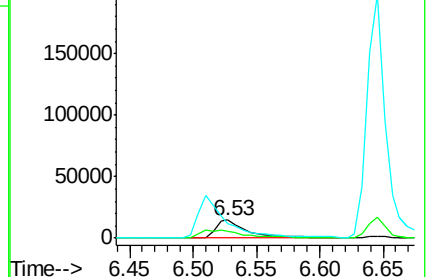
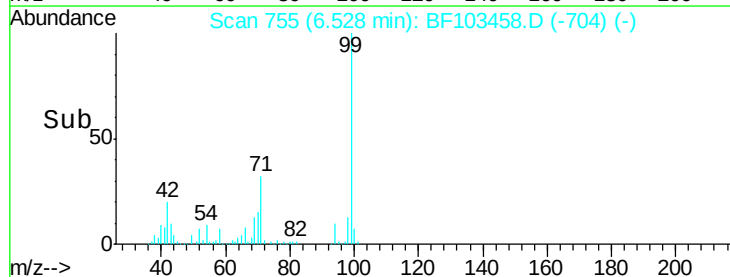
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 37.3  | 7.9   | 47.9  |
| 66  | 80.2  | 16.2  | 56.2  |

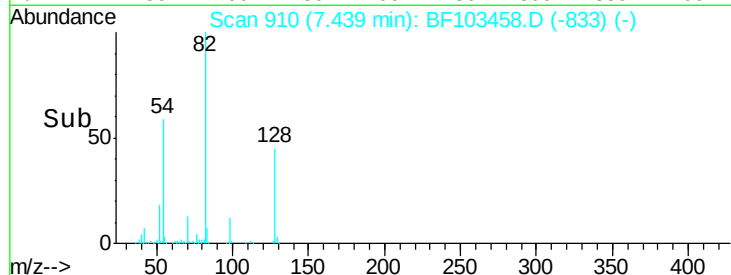
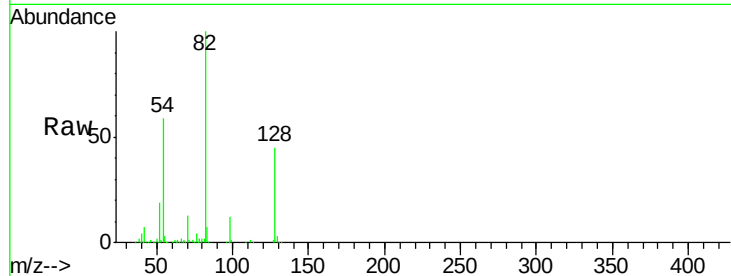
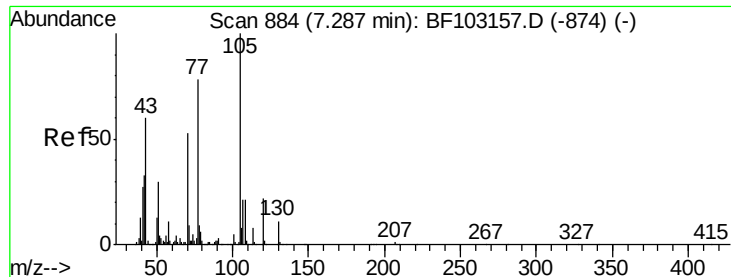


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

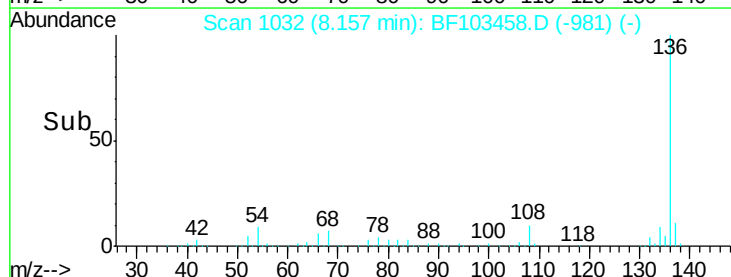
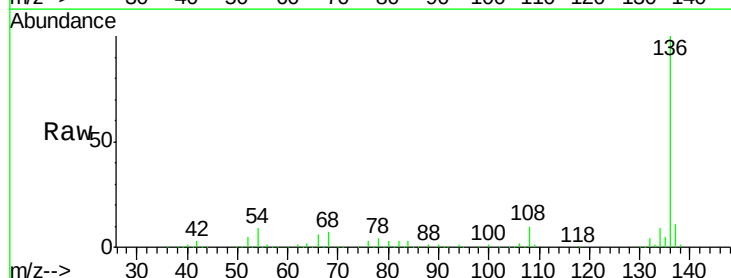
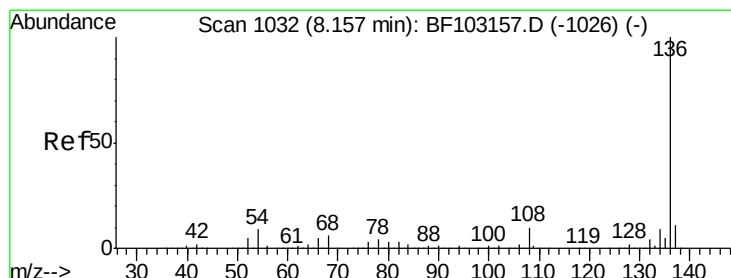
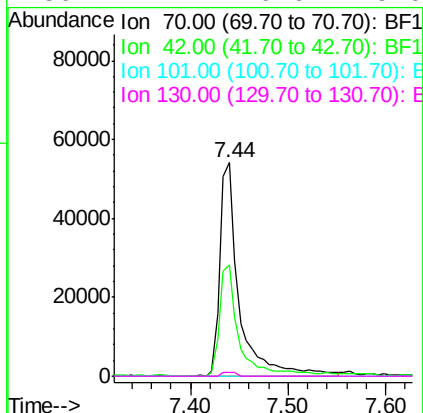




#19  
n-Nitroso-di-n-propylamine  
Concen: 12.792 ng  
RT: 7.44 min Scan# 910  
Delta R.T. 0.15 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

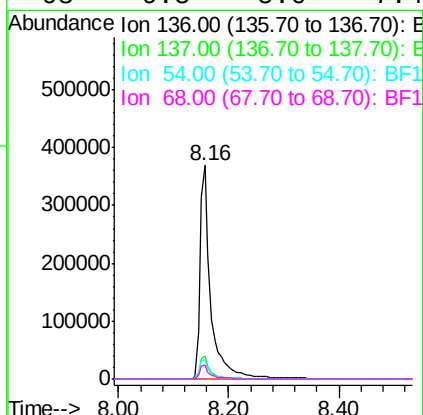
Instrument :  
BNA\_F  
ClientSampleId :

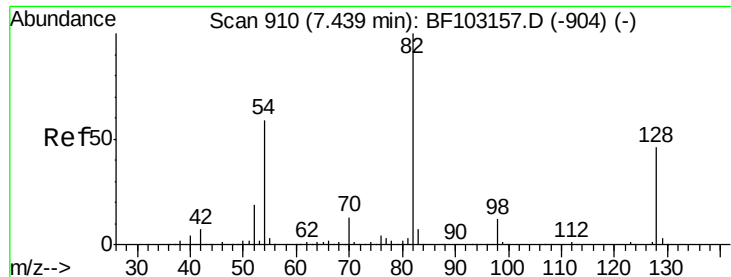
Tot Ion: 70 Resp: 74591  
Ion Ratio Lower Upper  
70 100  
42 52.4 47.5 71.3  
101 0.0 7.4 11.2#  
130 2.1 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.00 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Tgt Ion: 136 Resp: 497972  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.9 13.3  
54 9.1 6.6 9.8  
68 6.5 5.0 7.4

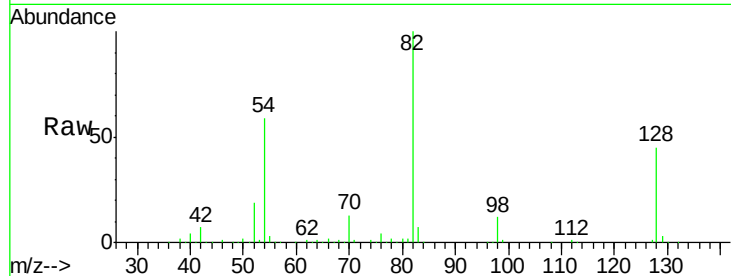




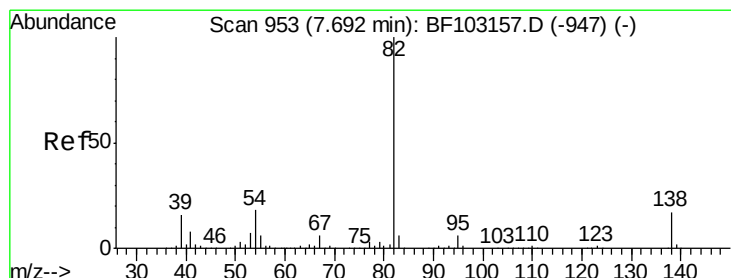
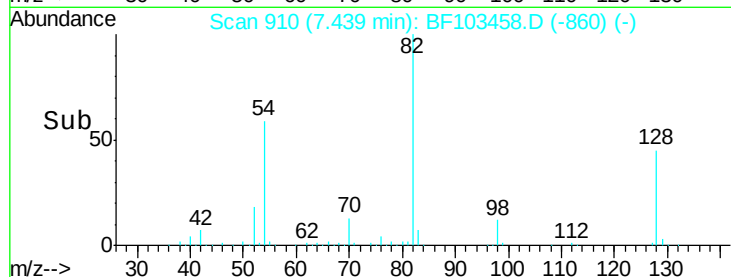
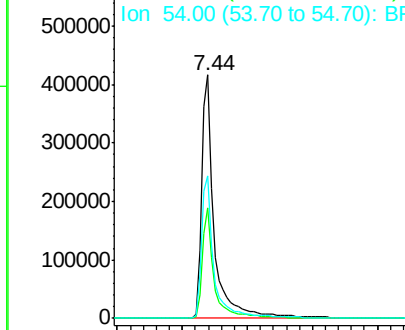
#23  
Nitrobenzene-d5  
Concen: 64.198 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 559787  
Ion Ratio Lower Upper  
82 100  
128 45.5 36.1 54.1  
54 58.7 41.4 62.2

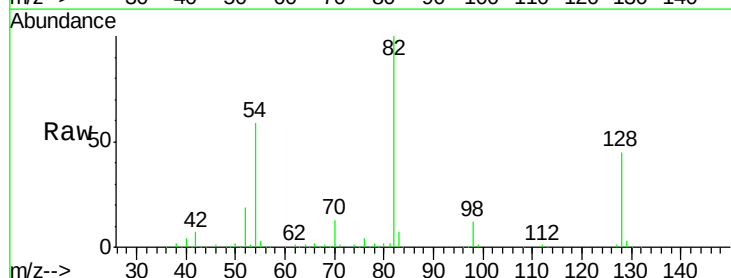


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

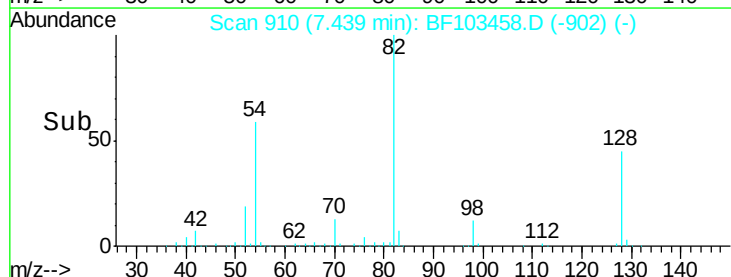
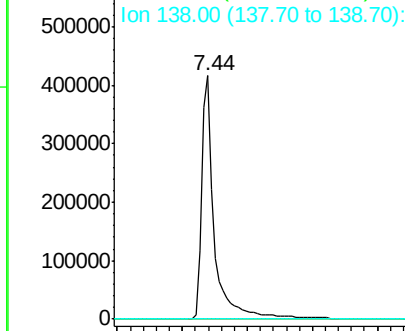


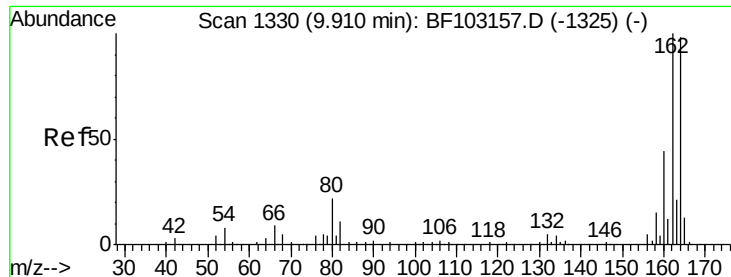
#25  
Isophorone  
Concen: 32.596 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.25 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Tgt Ion: 82 Resp: 559787  
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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.91 min Scan# 1330

Delta R.T. -0.01 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

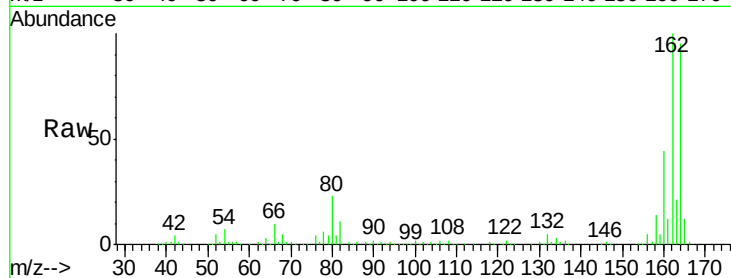
Tot Ion:164 Resp: 197563

Ion Ratio Lower Upper

164 100

162 104.8 86.1 129.1

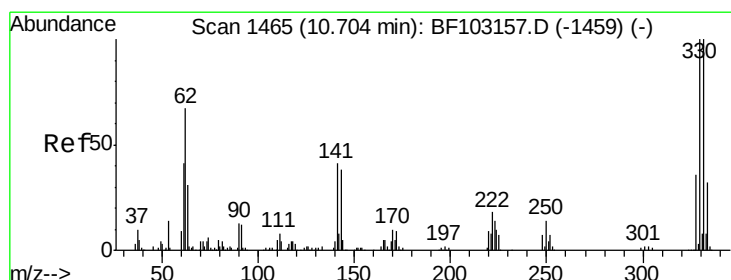
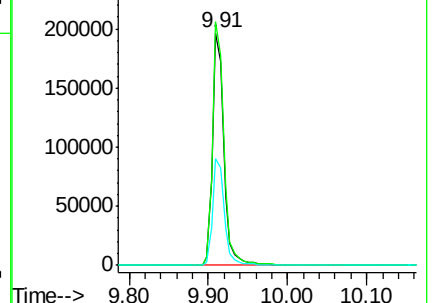
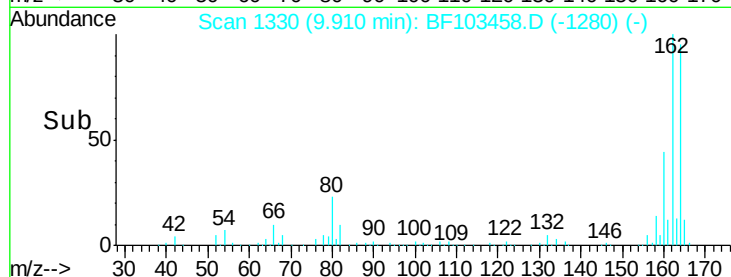
160 46.0 38.3 57.5



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: 75.179 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

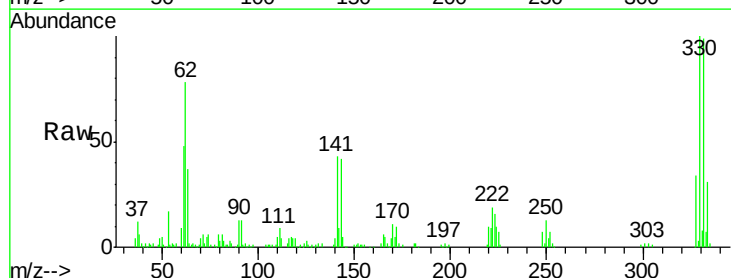
Tgt Ion:330 Resp: 125719

Ion Ratio Lower Upper

330 100

332 102.6 77.0 115.6

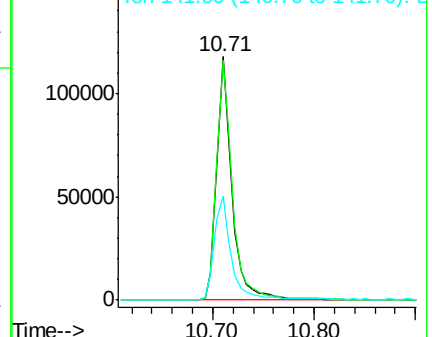
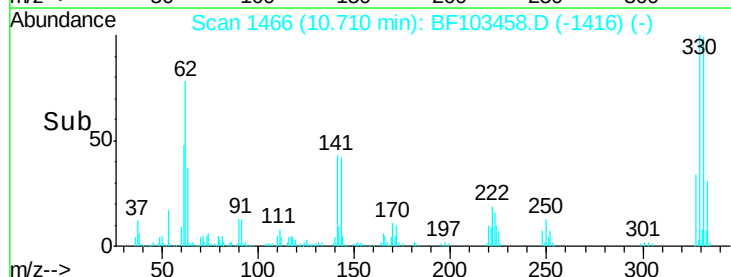
141 48.2 29.9 44.9#

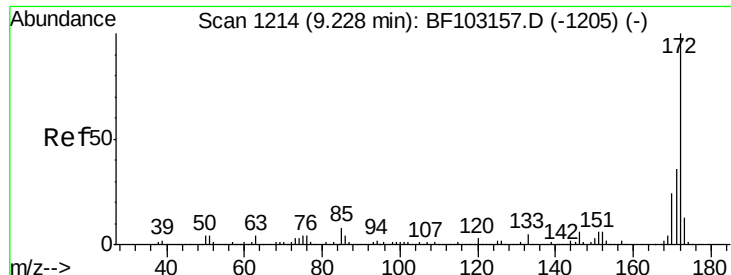


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

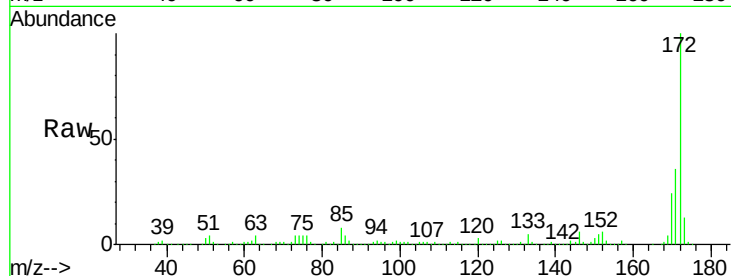




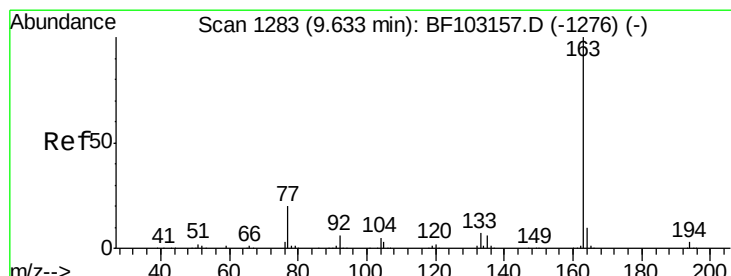
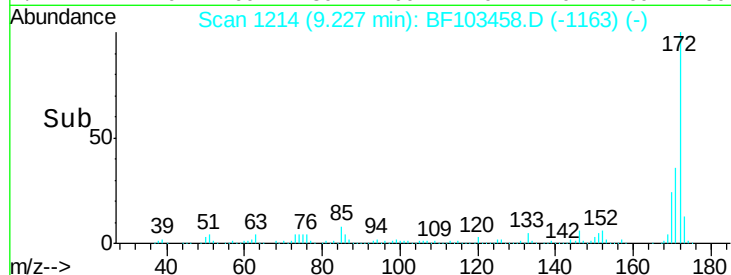
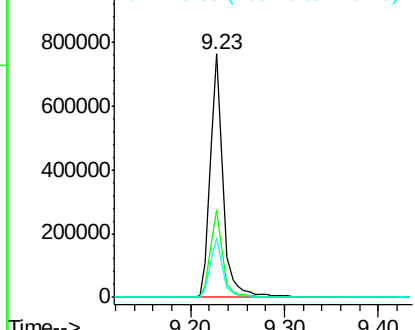
#44  
 2-Fluorobiphenyl  
 Concen: 61.188 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.00 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 751324  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.7 44.5  
 170 24.3 19.6 29.4

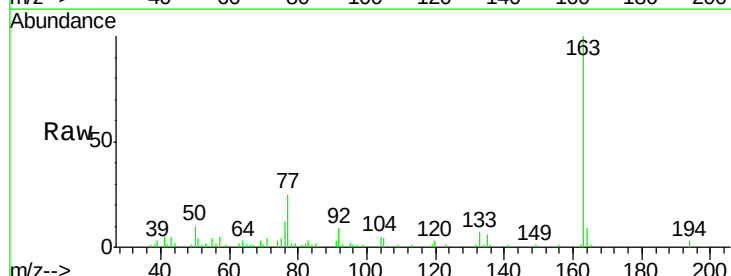


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

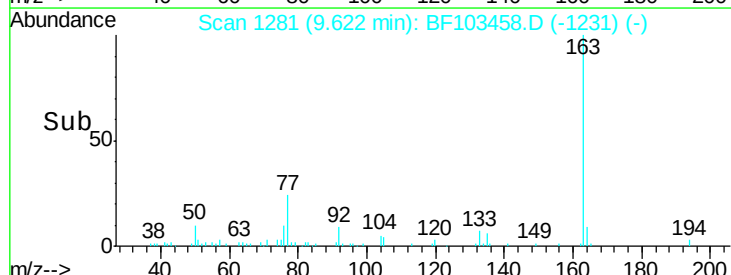
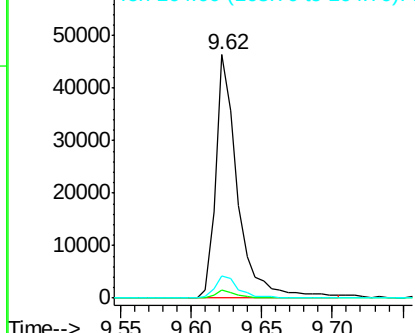


#49  
 Dimethylphthalate  
 Concen: 3.153 ng  
 RT: 9.62 min Scan# 1281  
 Delta R.T. -0.01 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

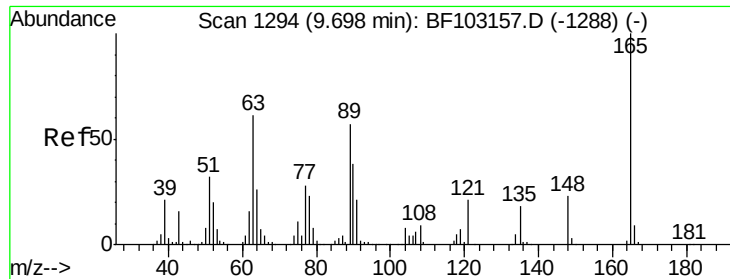
Tgt Ion:163 Resp: 49964  
 Ion Ratio Lower Upper  
 163 100  
 194 3.4 2.7 4.1  
 164 9.4 8.2 12.2



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



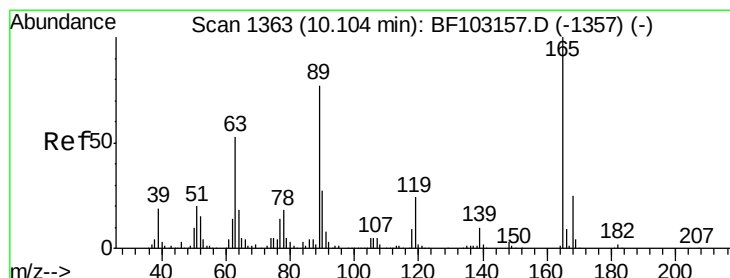
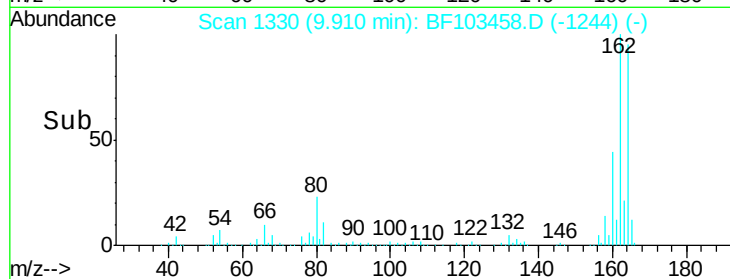
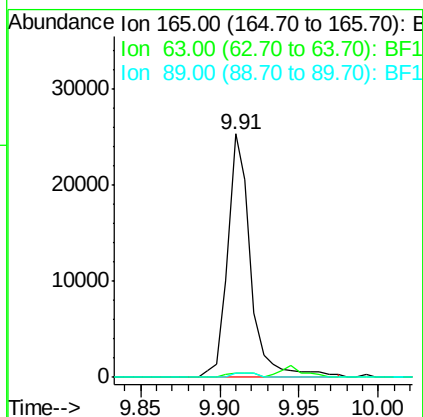
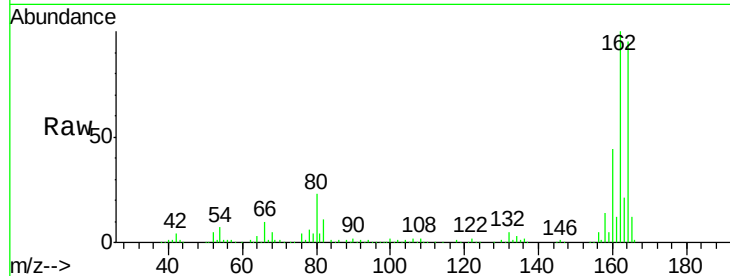




#50  
 2,6-Dinitrotoluene  
 Concen: 7.684 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. 0.21 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

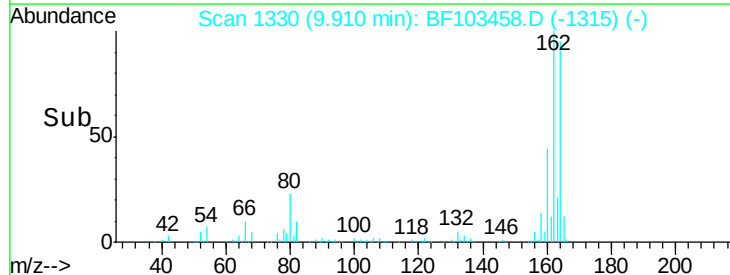
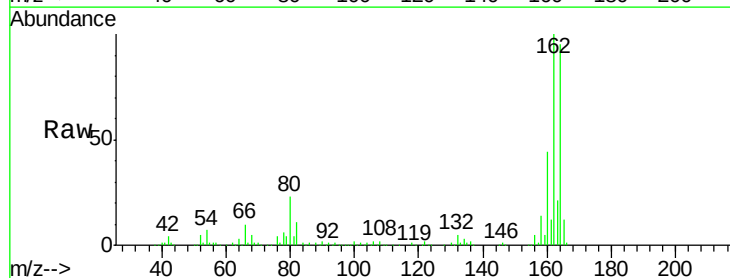
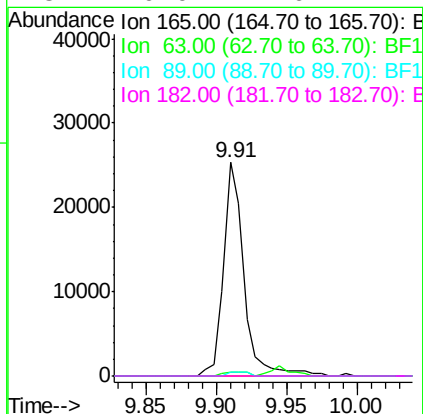
Instrument :  
 BNA\_F  
 ClientSampleId :

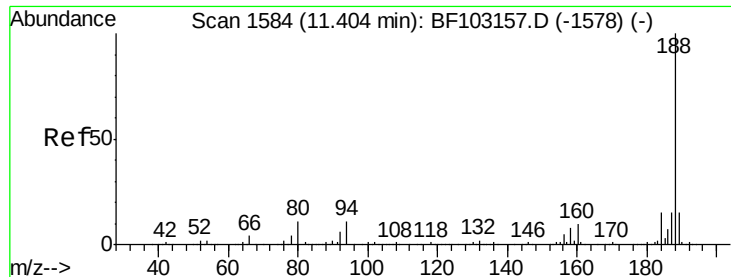
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 44.7  | 67.1# |
| 89      | 1.7   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.075 ng  
 RT: 9.91 min Scan# 1330  
 Delta R.T. -0.21 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.0   | 36.4  | 54.6# |
| 89      | 1.7   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.00 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

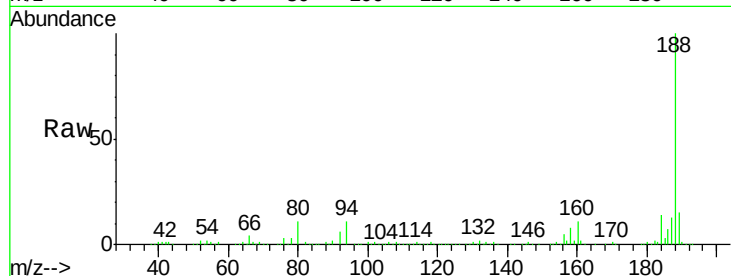
Tot Ion:188 Resp: 288216

Ion Ratio Lower Upper

188 100

94 10.9 8.5 12.7

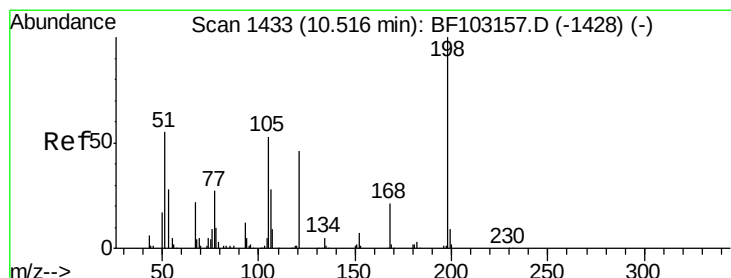
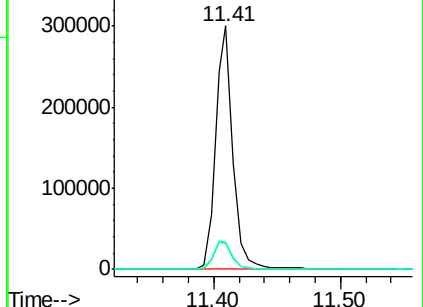
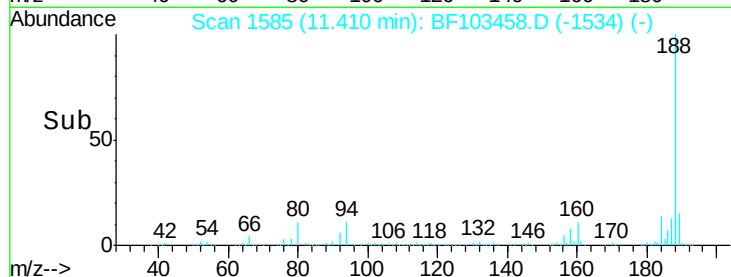
80 11.2 9.2 13.8



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: 5.004 ng

RT: 10.71 min Scan# 1466

Delta R.T. 0.18 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

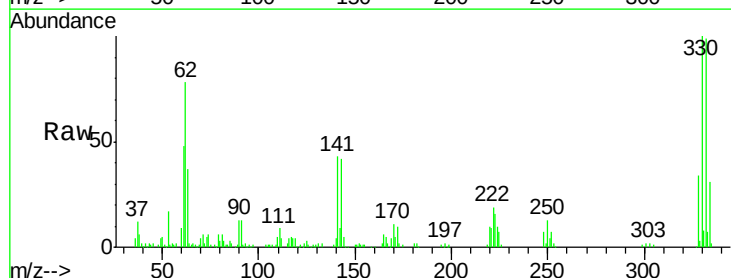
Tgt Ion:198 Resp: 114

Ion Ratio Lower Upper

198 100

51 345.1 37.7 77.7#

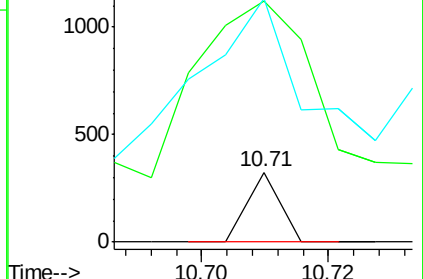
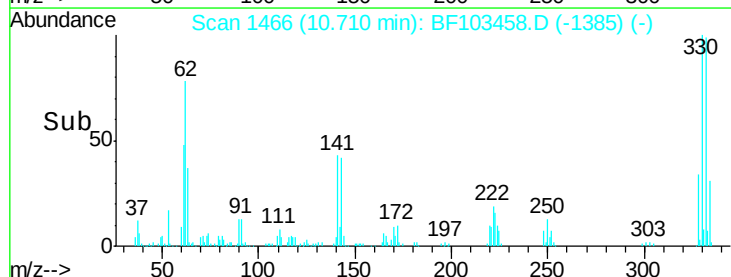
105 349.4 36.3 76.3#

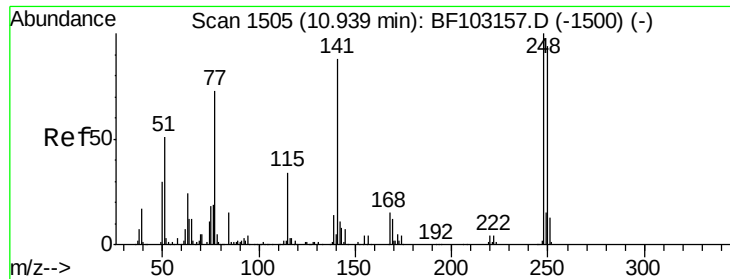


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

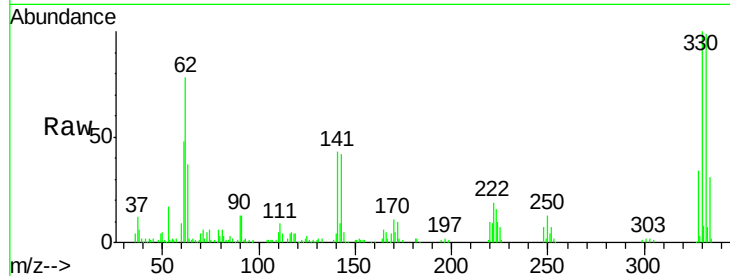




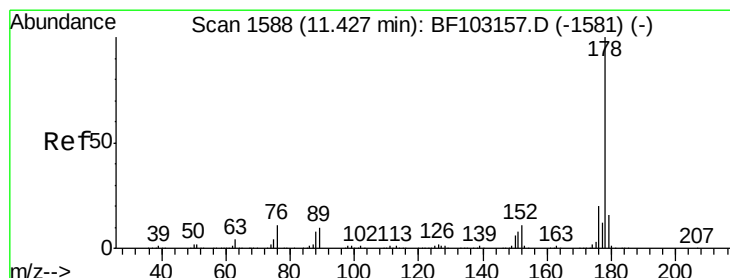
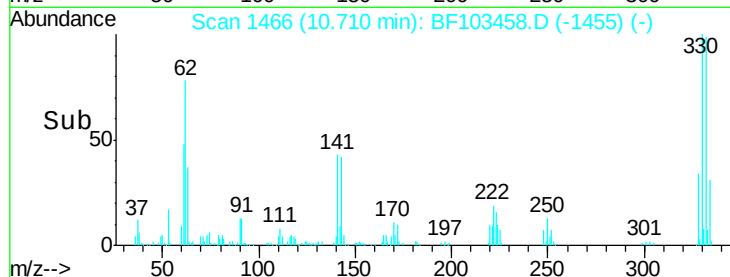
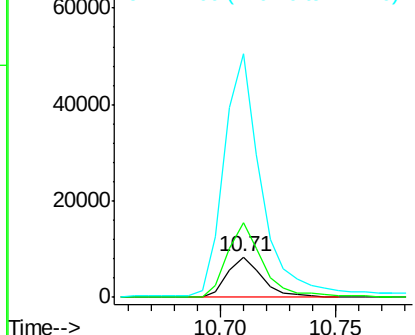
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.932 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.24 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 8804  
 Ion Ratio Lower Upper  
 248 100  
 250 184.9 76.9 115.3#  
 141 605.5 74.4 111.6#

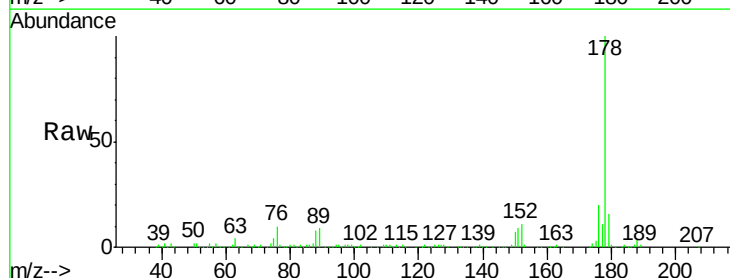


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

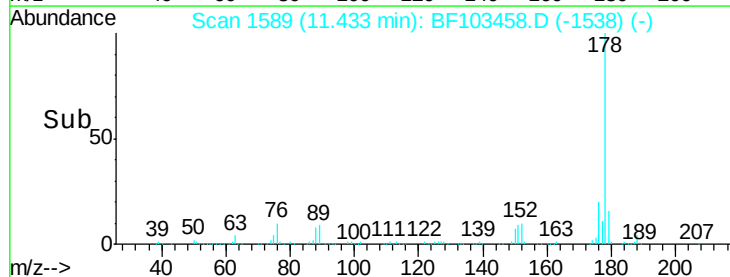
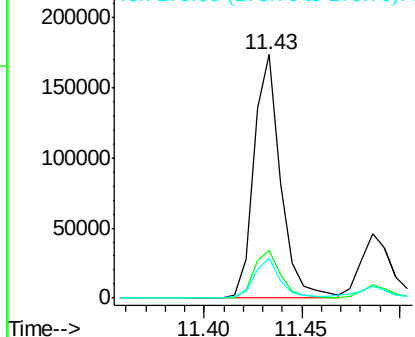


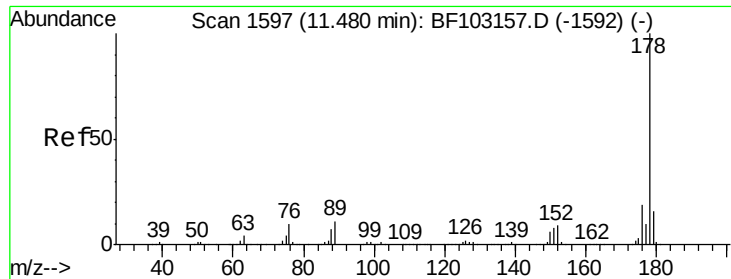
#70  
 Phenanthrene  
 Concen: 10.366 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.00 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Tgt Ion:178 Resp: 164415  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.8 23.8  
 179 16.4 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

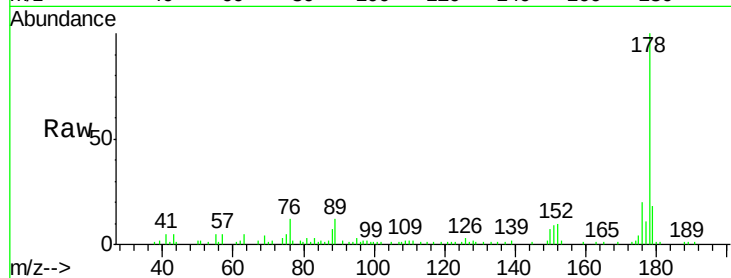




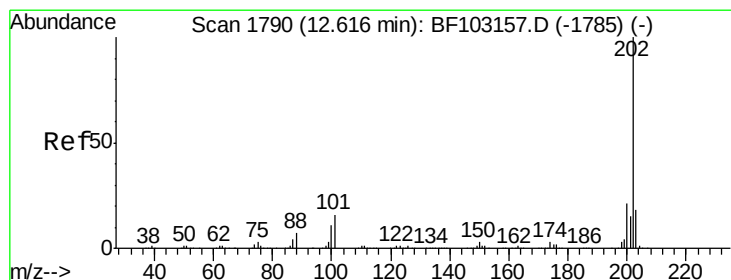
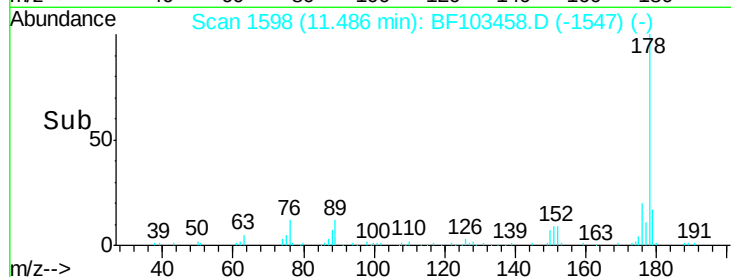
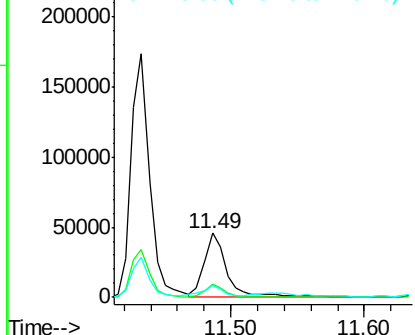
#71  
 Anthracene  
 Concen: 3.213 ng  
 RT: 11.49 min Scan# 1598  
 Delta R.T. -0.00 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:178 Resp: 52258  
 Ion Ratio Lower Upper  
 178 100  
 176 19.8 15.4 23.2  
 179 17.7 12.6 19.0

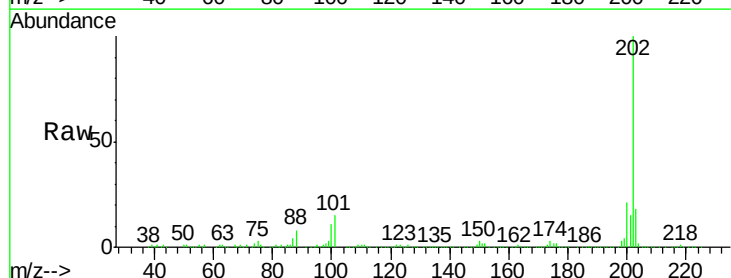


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

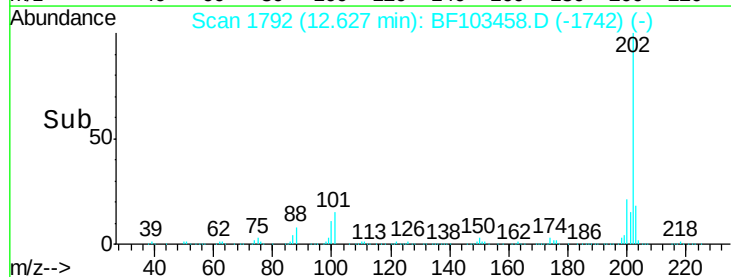
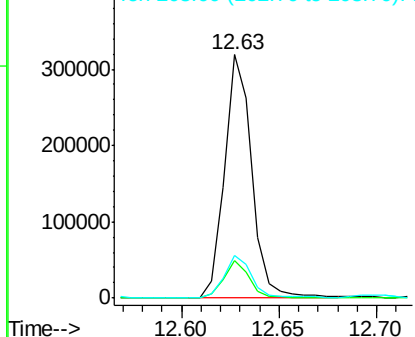


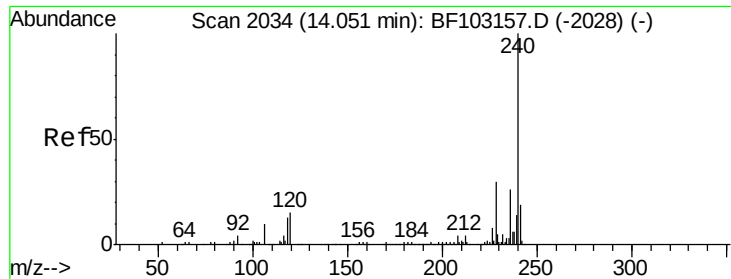
#74  
 Fluoranthene  
 Concen: 19.342 ng  
 RT: 12.63 min Scan# 1792  
 Delta R.T. -0.01 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Tgt Ion:202 Resp: 308290  
 Ion Ratio Lower Upper  
 202 100  
 101 15.2 0.0 34.1  
 203 17.7 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.10 min Scan# 2042

Delta R.T. 0.03 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

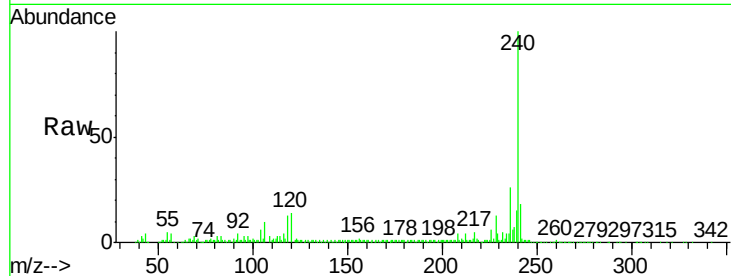
Tot Ion:240 Resp: 202355

Ion Ratio Lower Upper

240 100

120 14.1 9.5 14.3

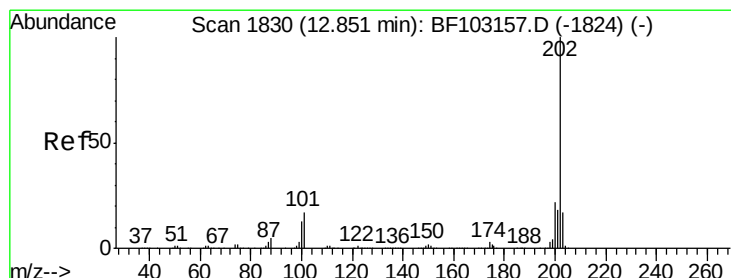
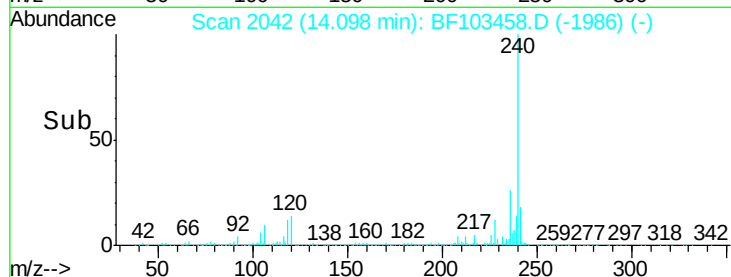
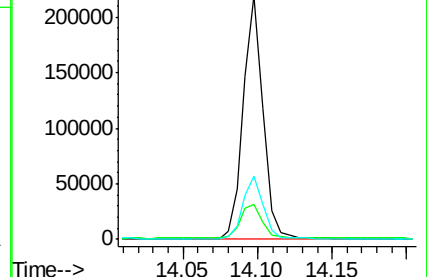
236 25.9 20.7 31.1



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: 18.435 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.00 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

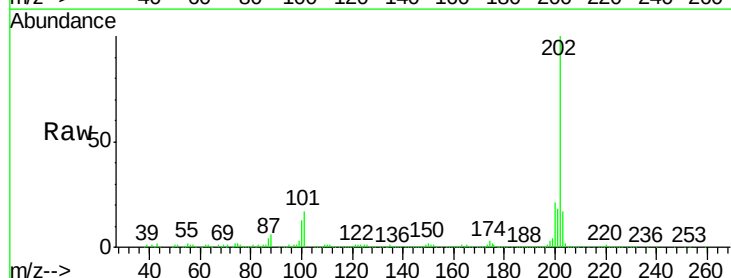
Tgt Ion:202 Resp: 290842

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

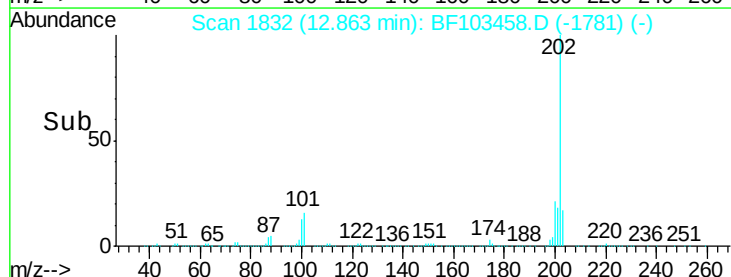
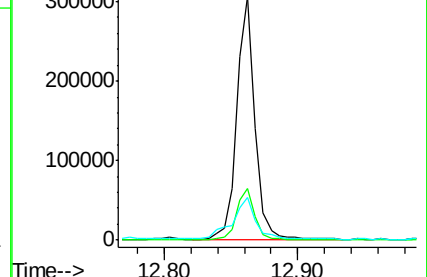
203 17.4 14.3 21.5

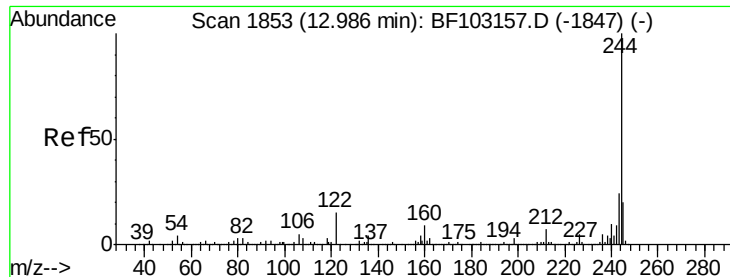


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 59.879 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

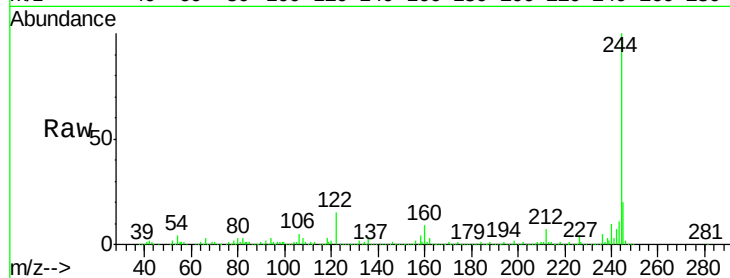
Tot Ion:244 Resp: 504059

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

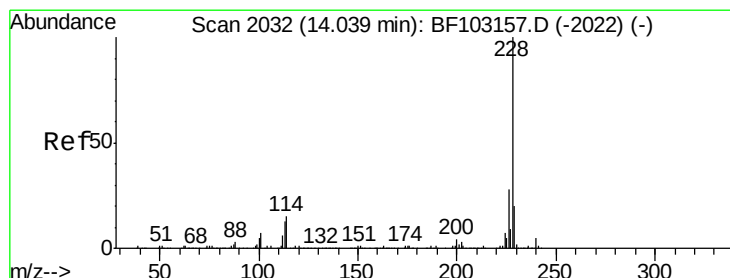
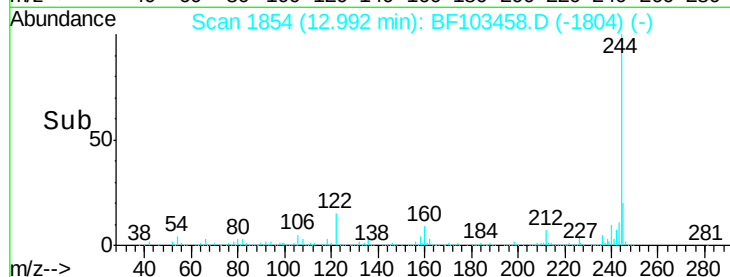
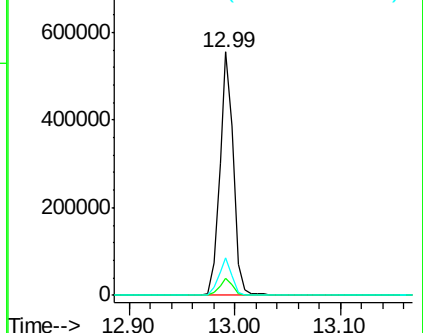
122 15.3 11.0 16.4



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: 11.429 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.03 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

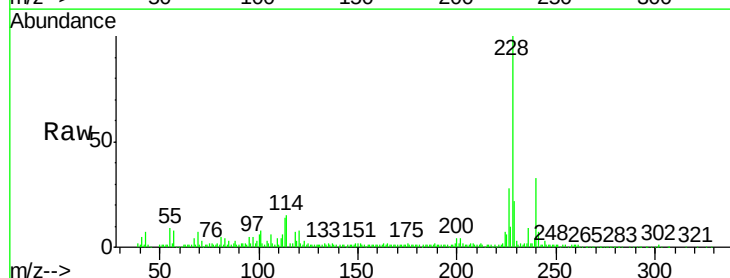
Tgt Ion:228 Resp: 150060

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

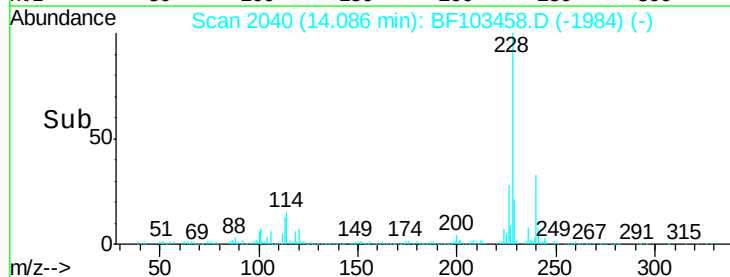
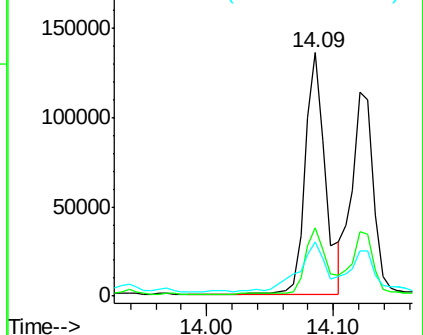
229 22.1 15.8 23.6

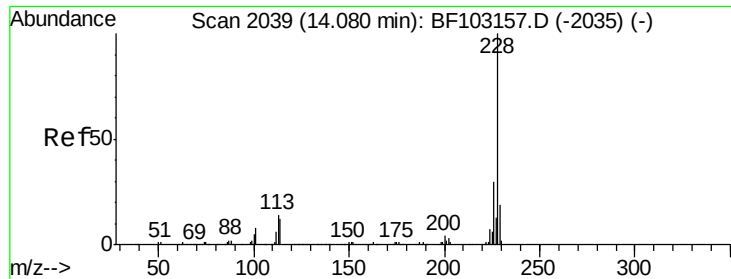


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.541 ng

RT: 14.12 min Scan# 2046

Delta R.T. 0.02 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

Instrument :

BNA\_F

ClientSampleId :

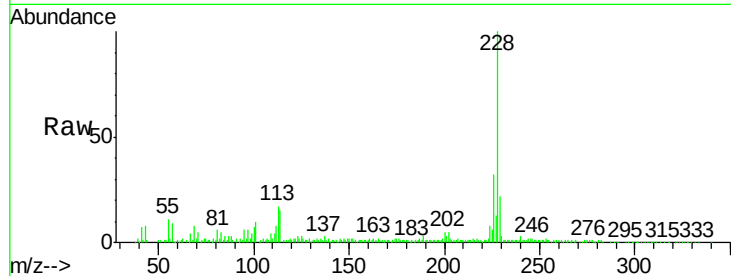
Tot Ion:228 Resp: 134379

Ion Ratio Lower Upper

228 100

226 31.7 25.0 37.6

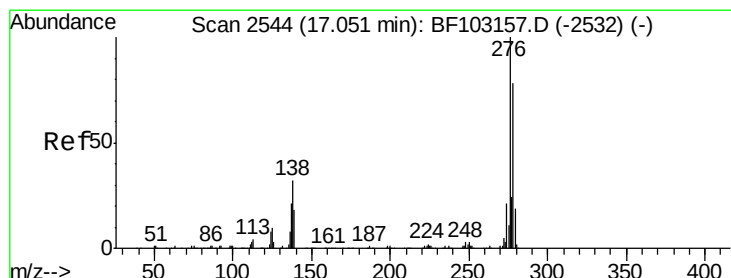
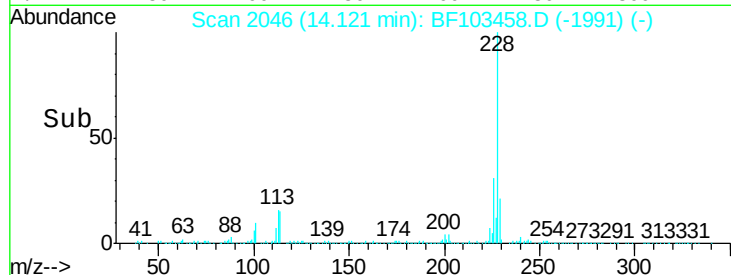
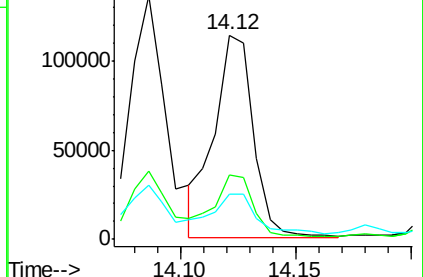
229 22.4 16.2 24.4



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: 4.723 ng

RT: 17.22 min Scan# 2573

Delta R.T. 0.09 min

Lab File: BF103458.D

Acq: 6 Mar 2018 16:17

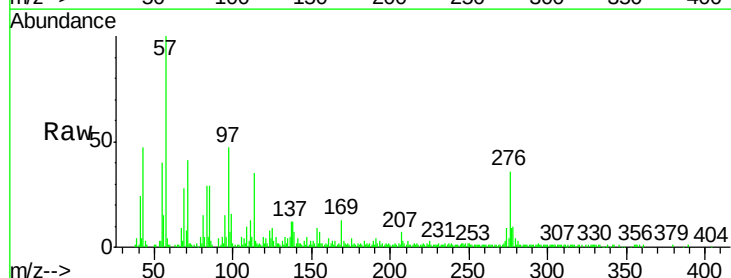
Tgt Ion:276 Resp: 47665

Ion Ratio Lower Upper

276 100

138 30.4 25.0 37.6

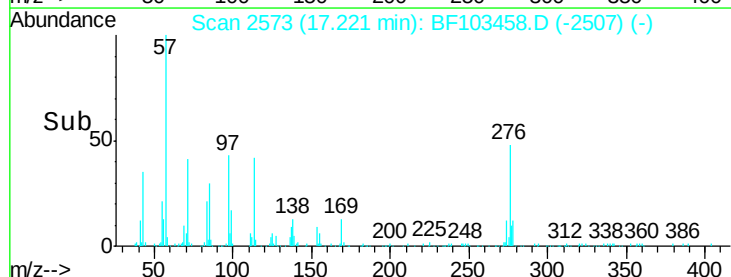
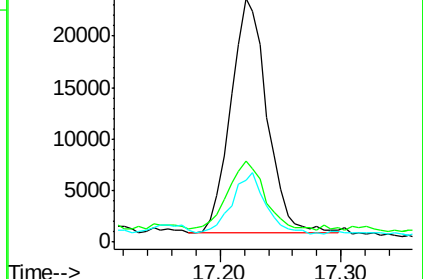
277 24.0 20.1 30.1

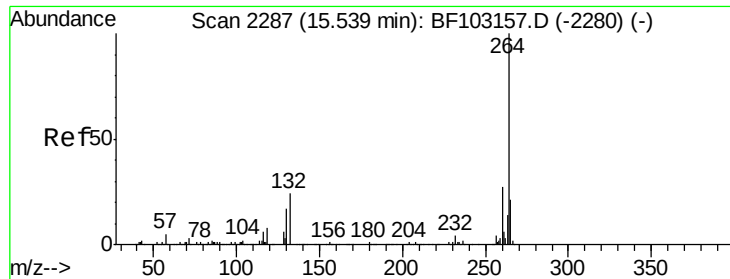


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

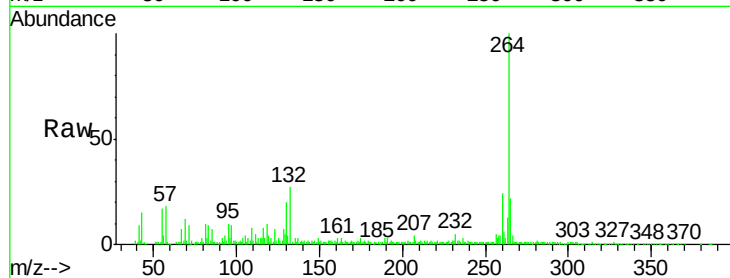




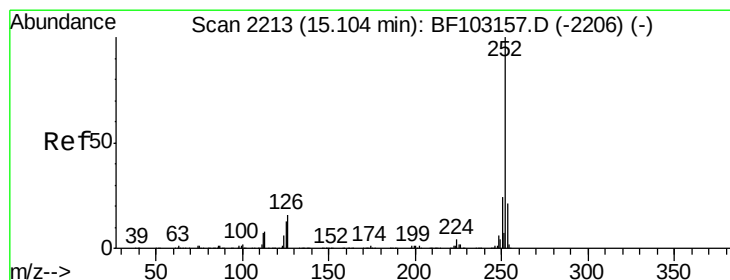
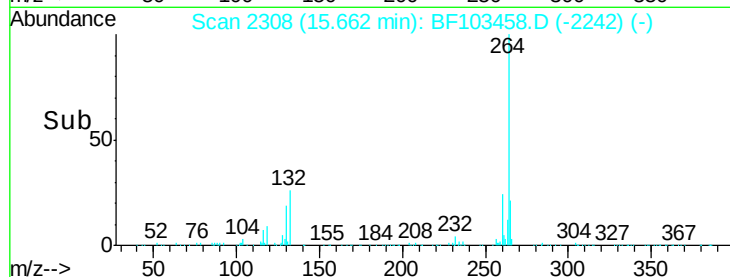
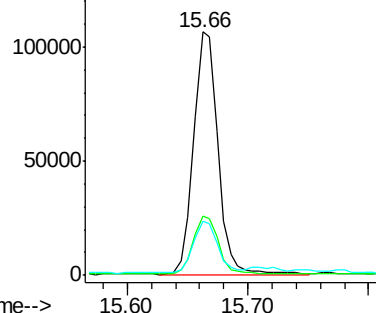
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2308  
Delta R.T. 0.09 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.2  | 28.8  |
| 265     | 22.1  | 17.5  | 26.3  |

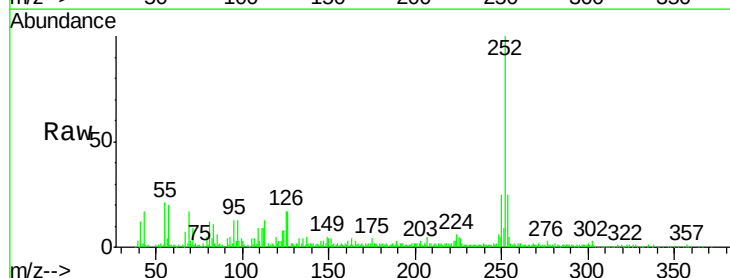


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

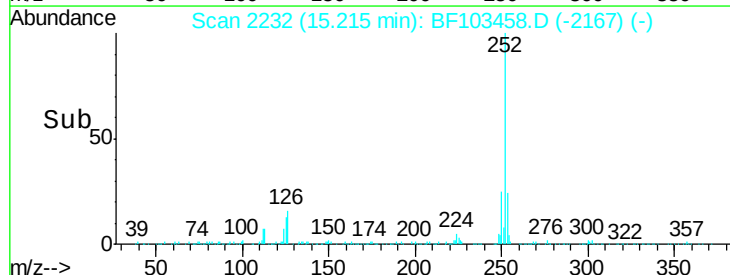
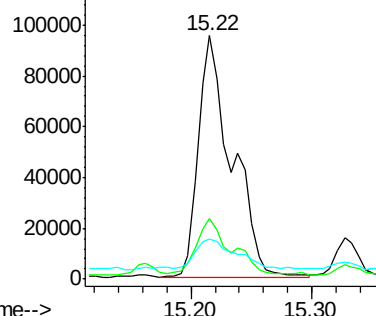


#87  
Benzo(b)fluoranthene  
Concen: 18.731 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. 0.08 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

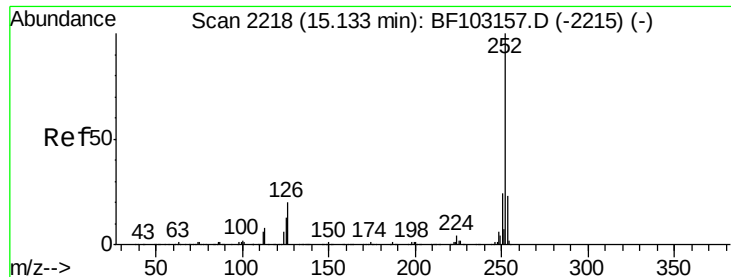
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.0  | 25.6  |
| 125     | 16.7  | 9.0   | 13.6  |



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



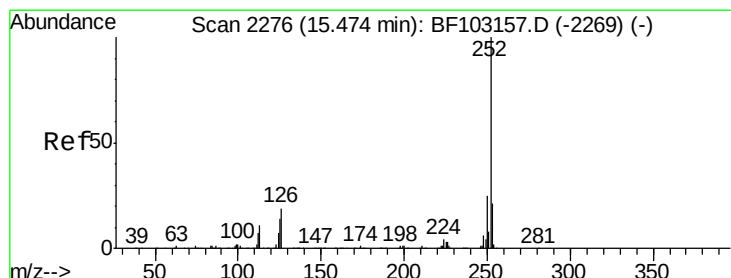
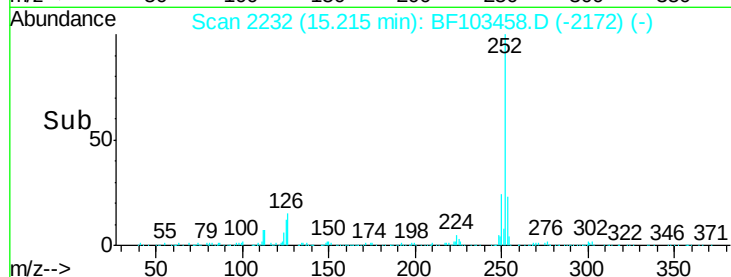
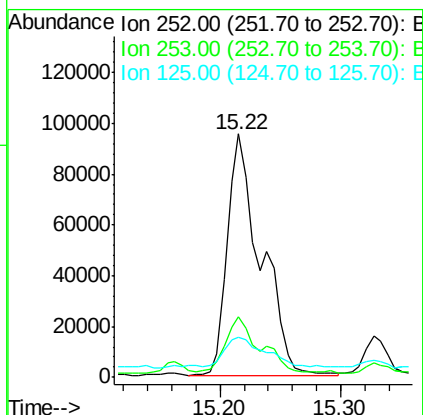
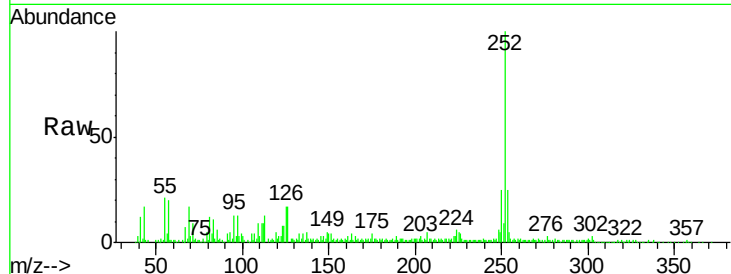




#88  
Benzo(k)fluoranthene  
Concen: 19.910 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. 0.05 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

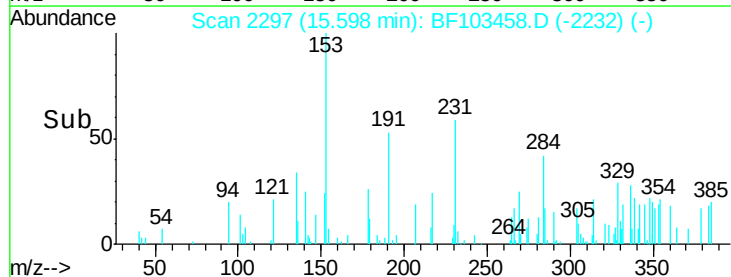
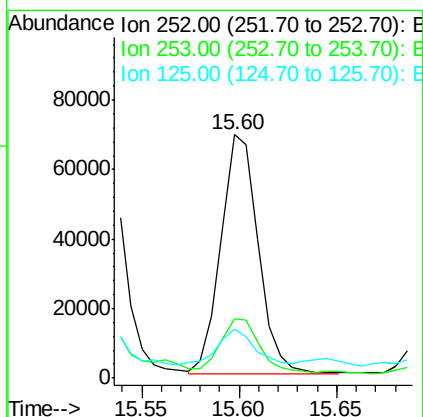
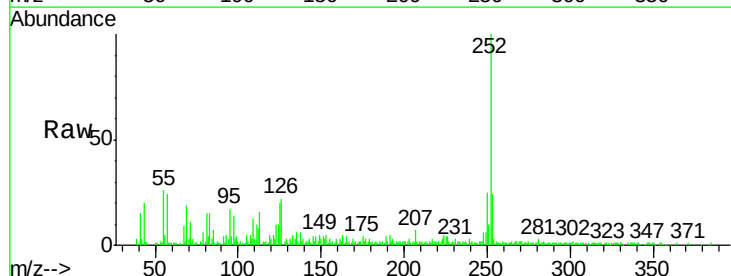
Instrument :  
BNA\_F  
ClientSampleId :

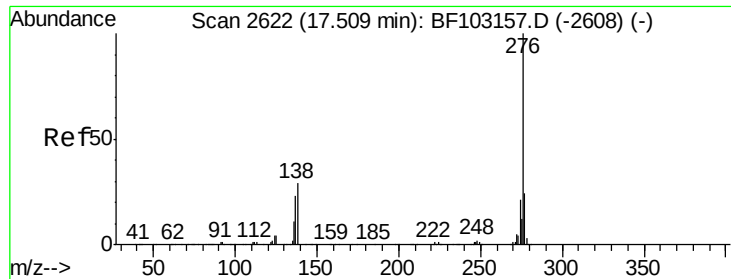
Tot Ion:252 Resp: 182881  
Ion Ratio Lower Upper  
252 100  
253 25.0 17.9 26.9  
125 16.7 10.2 15.2#



#89  
Benzo(a)pyrene  
Concen: 10.602 ng  
RT: 15.60 min Scan# 2297  
Delta R.T. 0.08 min  
Lab File: BF103458.D  
Acq: 6 Mar 2018 16:17

Tgt Ion:252 Resp: 92351  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.1 25.7  
125 20.3 9.8 14.6#





#91  
 Benzo(a,h,i)perylene  
 Concen: 7.418 ng  
 RT: 17.70 min Scan# 2654  
 Delta R.T. 0.10 min  
 Lab File: BF103458.D  
 Acq: 6 Mar 2018 16:17

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.8  | 17.9  | 26.9  |
| 138     | 35.2  | 21.8  | 32.8  |

