

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\  
 Data File : BF118312.D  
 Acq On : 26 Dec 2019 13:13  
 Operator : JU  
 Sample : K6414-08  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 27 03:21:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 24 15:58:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 116967   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 481295   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 260040   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 500988   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 318175   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.53 | 264  | 358218   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.46  | 112 | 701948  | 102.44 | ng | 0.00  |
| 7) Phenol-d6                | 6.48  | 99  | 879514  | 103.47 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.41  | 82  | 520111  | 61.81  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330 | 314035  | 97.79  | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.22  | 172 | 1048927 | 61.57  | ng | 0.00  |
| 79) Terphenyl-d14           | 12.98 | 244 | 1246742 | 65.01  | ng | 0.00  |

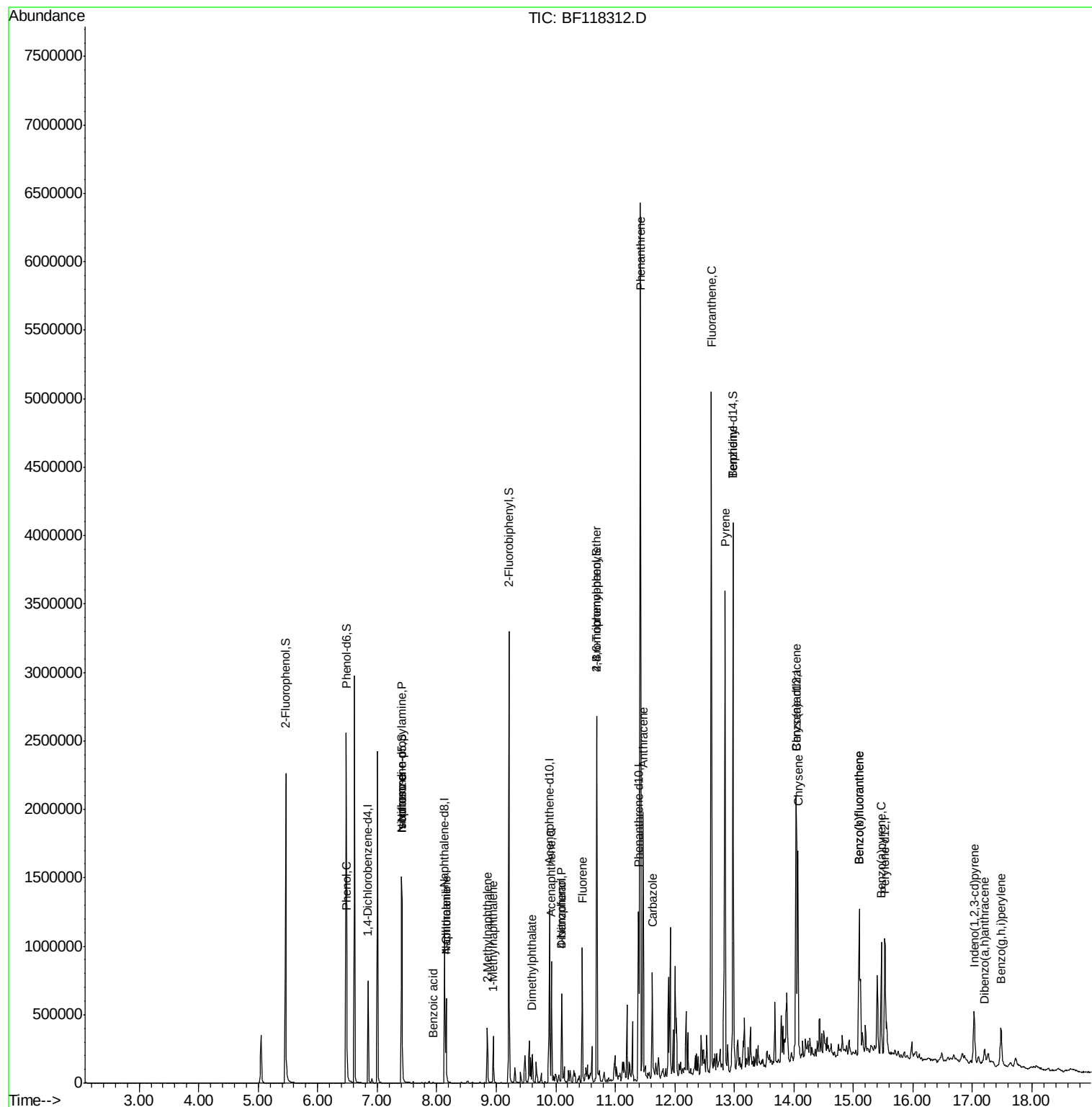
|                                |       |     |         |        |    |      |
|--------------------------------|-------|-----|---------|--------|----|------|
| Target Compounds               |       |     |         | Qvalue |    |      |
| 10) Phenol                     | 6.49  | 94  | 30618   | 3.205  | ng | 95   |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70  | 70004   | 13.368 | ng | # 77 |
| 25) Isophorone                 | 7.41  | 82  | 520175  | 35.469 | ng | # 62 |
| 31) Naphthalene                | 8.16  | 128 | 266456  | 10.892 | ng | 98   |
| 32) Benzoic acid               | 7.93  | 122 | 2288    | 6.069  | ng | # 13 |
| 33) 4-Chloroaniline            | 8.16  | 127 | 33682   | 3.212  | ng | # 35 |
| 37) 2-Methylnaphthalene        | 8.85  | 142 | 106398  | 6.353  | ng | 98   |
| 38) 1-Methylnaphthalene        | 8.95  | 142 | 94936   | 6.016  | ng | 99   |
| 50) Dimethylphthalate          | 9.61  | 163 | 89067   | 4.563  | ng | 100  |
| 52) Acenaphthene               | 9.93  | 154 | 170666  | 11.413 | ng | 98   |
| 55) Dibenzofuran               | 10.10 | 168 | 245898  | 11.129 | ng | 99   |
| 56) 4-Nitrophenol              | 10.10 | 139 | 100170  | 32.851 | ng | # 8  |
| 58) Fluorene                   | 10.45 | 166 | 236134  | 13.238 | ng | 98   |
| 67) 4-Bromophenyl-phenylether  | 10.69 | 248 | 18661   | 3.183  | ng | # 1  |
| 71) Phenanthrene               | 11.42 | 178 | 2472129 | 90.517 | ng | 98   |
| 72) Anthracene                 | 11.47 | 178 | 683363  | 24.998 | ng | 98   |
| 73) Carbazole                  | 11.62 | 167 | 263185  | 10.850 | ng | 99   |
| 75) Fluoranthene               | 12.62 | 202 | 1938142 | 70.317 | ng | 97   |
| 77) Benzidine                  | 12.98 | 184 | 17801   | 2.042  | ng | # 94 |
| 78) Pyrene                     | 12.84 | 202 | 1423713 | 54.795 | ng | 99   |
| 81) Benzo(a)anthracene         | 14.03 | 228 | 664117  | 29.819 | ng | 99   |
| 83) Chrysene                   | 14.07 | 228 | 524297  | 24.586 | ng | 98   |
| 86) Indeno(1,2,3-cd)pyrene     | 17.03 | 276 | 254063  | 13.982 | ng | 95   |
| 88) Benzo(b)fluoranthene       | 15.10 | 252 | 812822  | 34.183 | ng | 98   |
| 89) Benzo(k)fluoranthene       | 15.10 | 252 | 812822  | 35.601 | ng | 99   |
| 90) Benzo(a)pyrene             | 15.47 | 252 | 392148  | 18.721 | ng | 95   |
| 91) Dibenzo(a,h)anthracene     | 17.20 | 278 | 59830   | 3.291  | ng | 94   |
| 92) Benzo(g,h,i)perylene       | 17.48 | 276 | 216599  | 12.335 | ng | 100  |

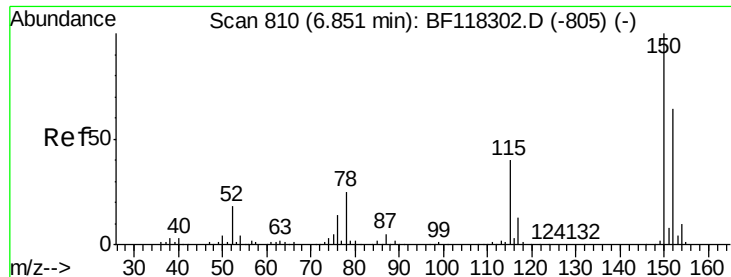
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
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Quant Time: Dec 27 03:21:17 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 24 15:58:52 2019  
Response via : Initial Calibration



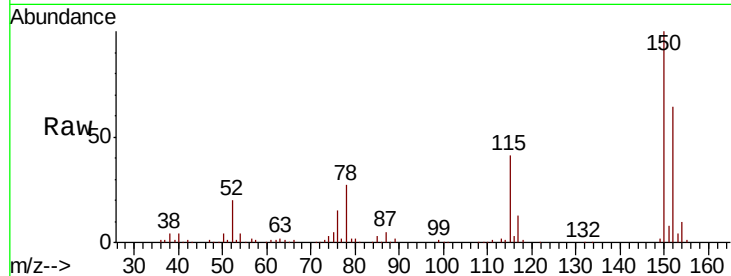


#1

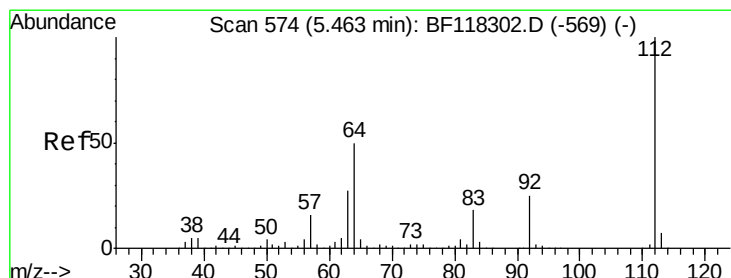
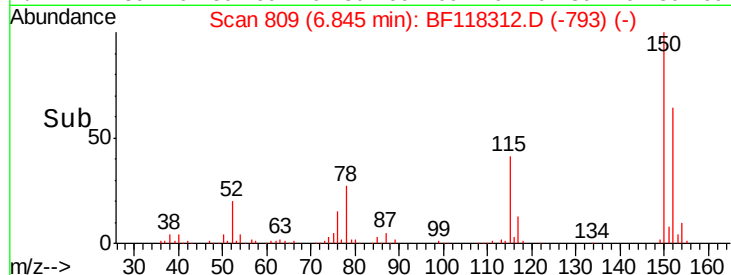
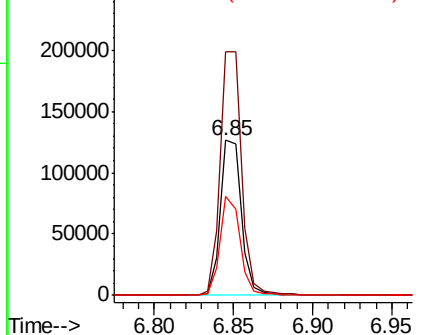
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 116967  
Ion Ratio Lower Upper  
152 100  
150 156.9 125.4 188.2  
115 64.2 50.2 75.4



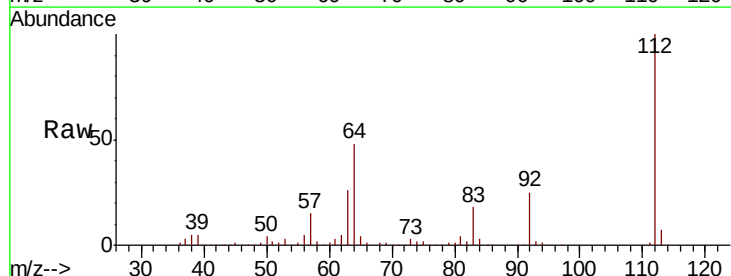
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



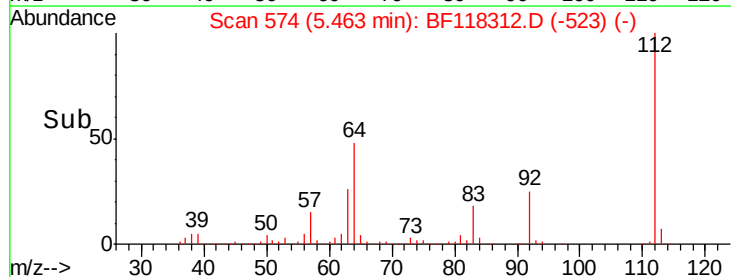
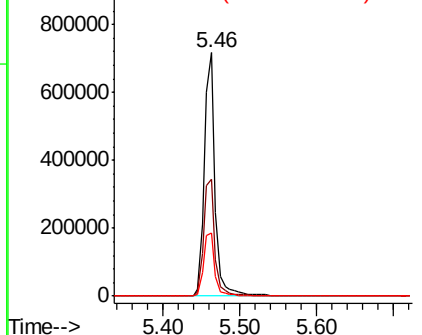
#5

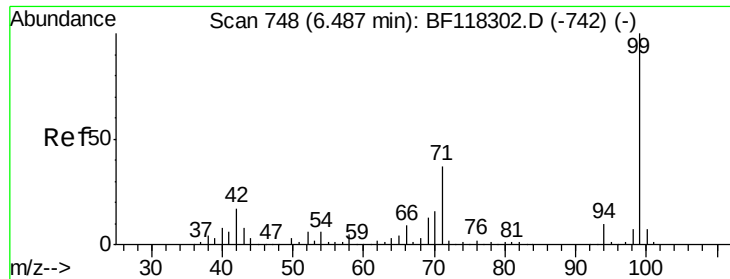
2-Fluorophenol  
Concen: 102.441 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.00 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Tgt Ion:112 Resp: 701948  
Ion Ratio Lower Upper  
112 100  
64 48.0 39.7 59.5  
63 26.0 21.7 32.5



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: 103.468 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

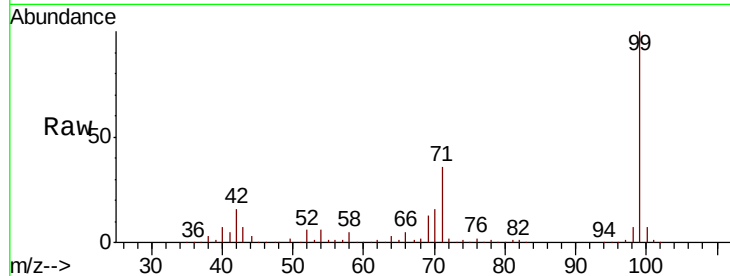
Tot Ion: 99 Resp: 879514

Ion Ratio Lower Upper

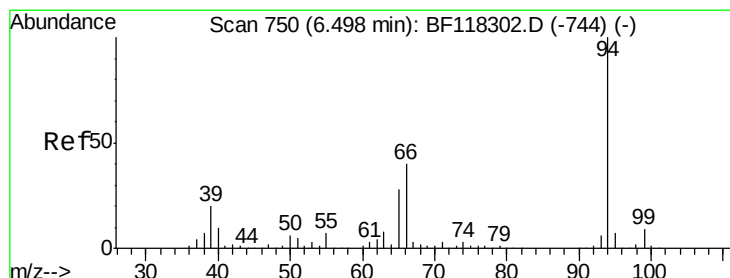
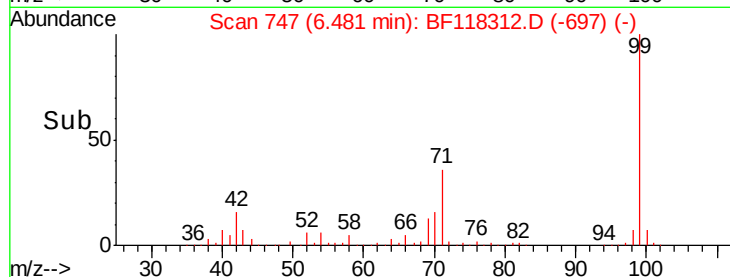
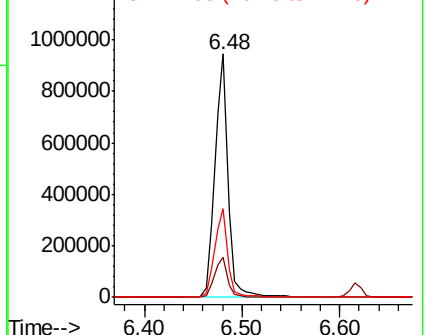
99 100

42 16.3 13.5 20.3

71 36.5 29.4 44.2



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: 3.205 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

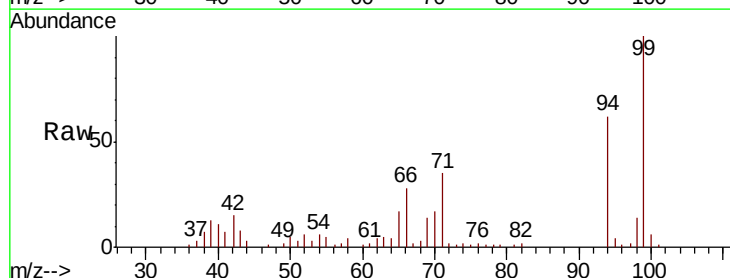
Tgt Ion: 94 Resp: 30618

Ion Ratio Lower Upper

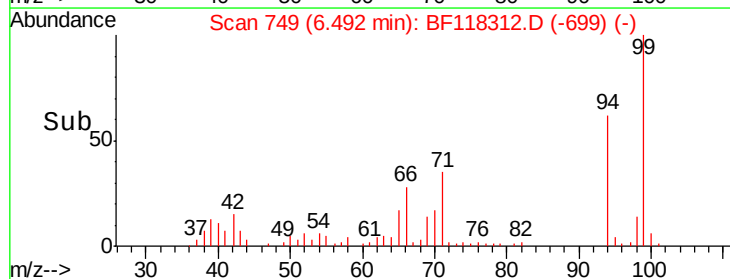
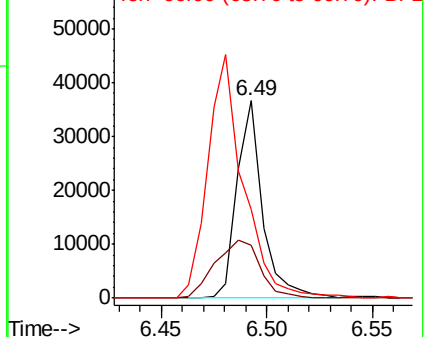
94 100

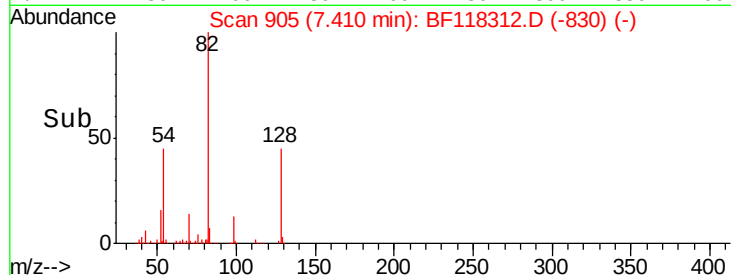
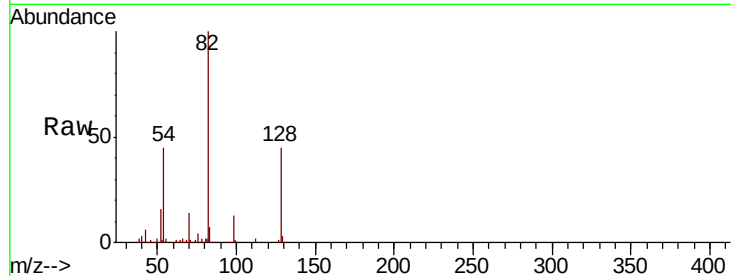
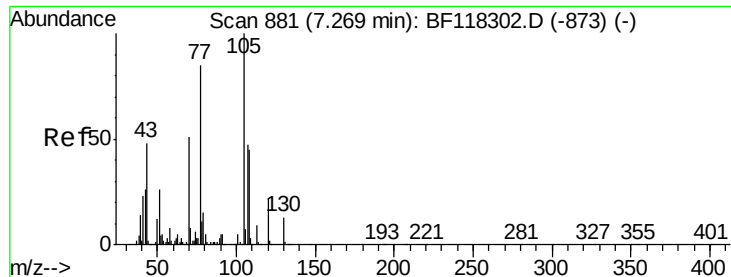
65 26.6 7.8 47.8

66 45.0 20.4 60.4



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

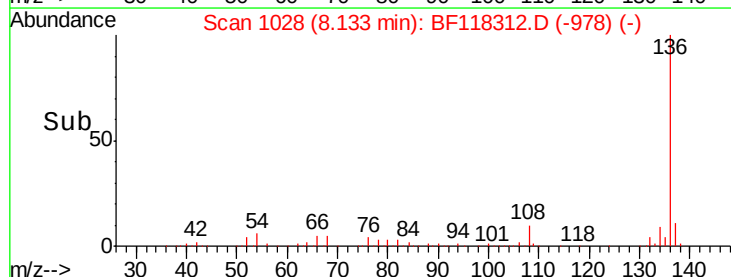
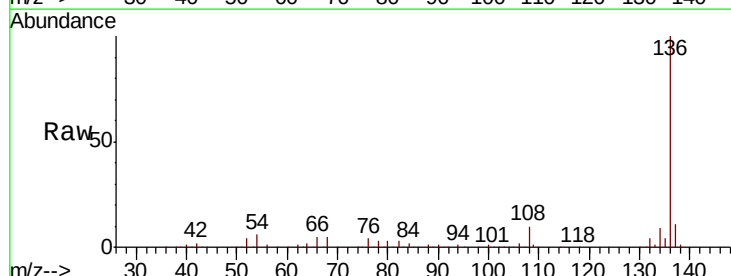
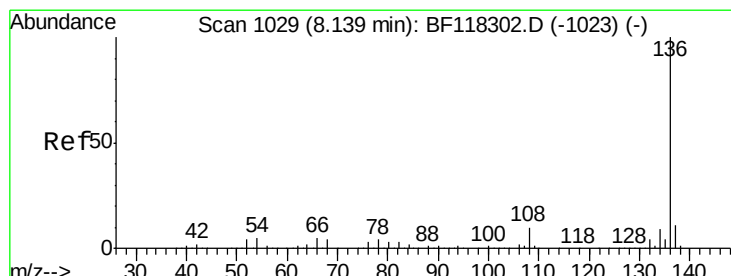
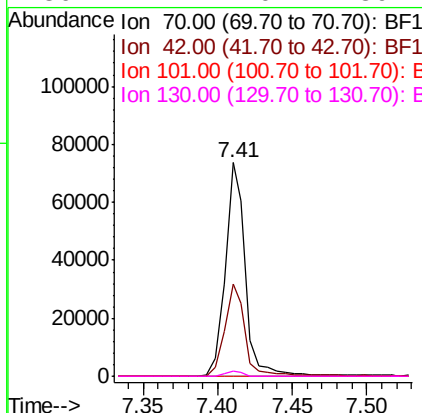




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.368 ng  
RT: 7.41 min Scan# 905  
Delta R.T. 0.14 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

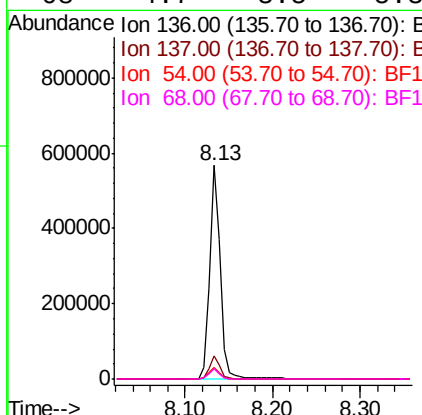
Instrument :  
BNA\_F  
ClientSampleId :

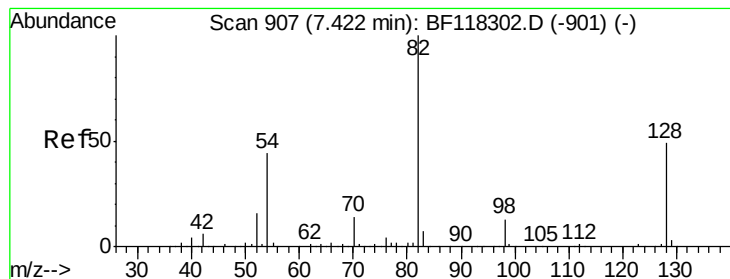
Tot Ion: 70 Resp: 70004  
Ion Ratio Lower Upper  
70 100  
42 43.4 41.1 61.7  
101 0.0 8.3 12.5#  
130 2.2 20.1 30.1#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Tgt Ion: 136 Resp: 481295  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.9 13.3  
54 5.6 4.2 6.4  
68 4.7 3.5 5.3





#23

Nitrobenzene-d5

Concen: 61.808 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

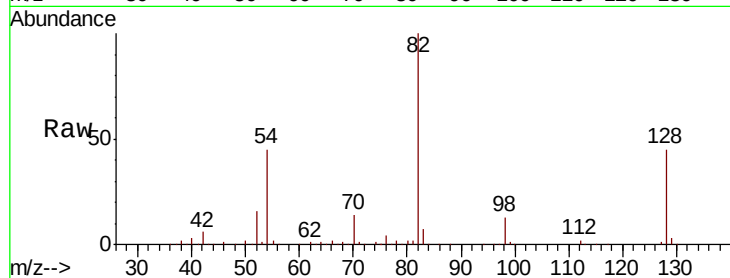
Tot Ion: 82 Resp: 520111

Ion Ratio Lower Upper

82 100

128 45.3 39.6 59.4

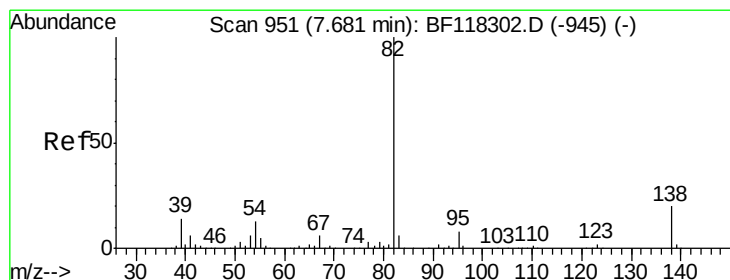
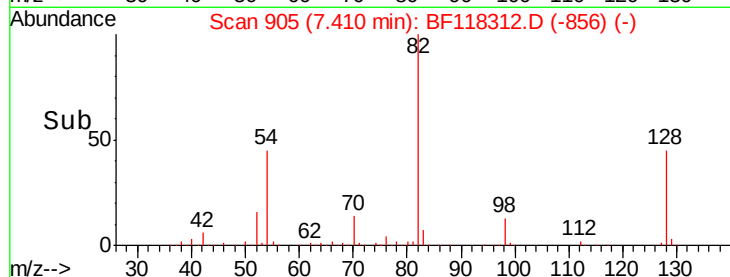
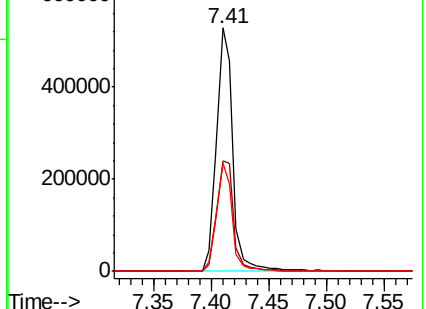
54 44.6 34.9 52.3



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: 35.469 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.27 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

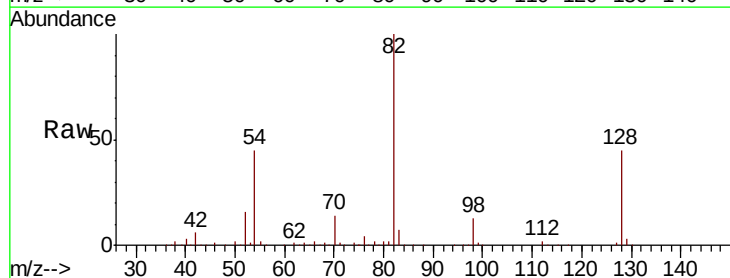
Tgt Ion: 82 Resp: 520175

Ion Ratio Lower Upper

82 100

95 0.0 6.3 9.5#

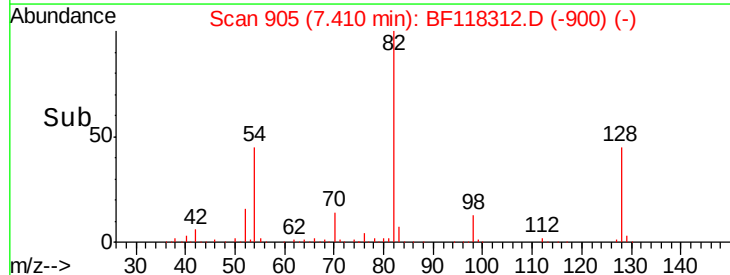
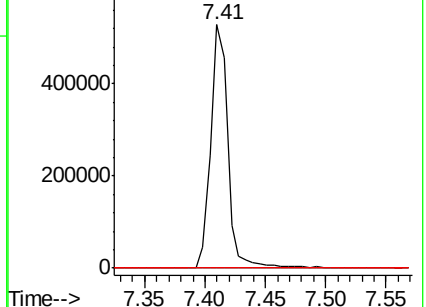
138 0.0 16.2 24.2#

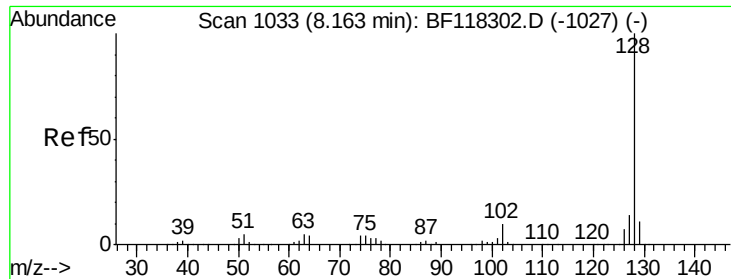


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

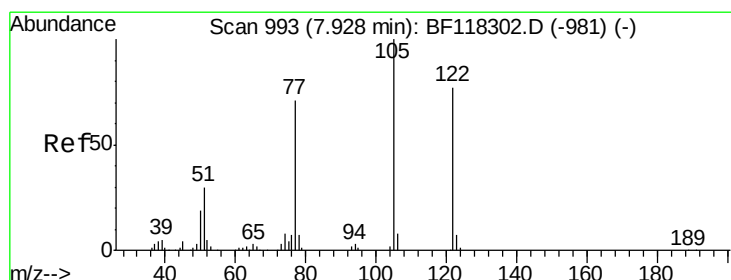
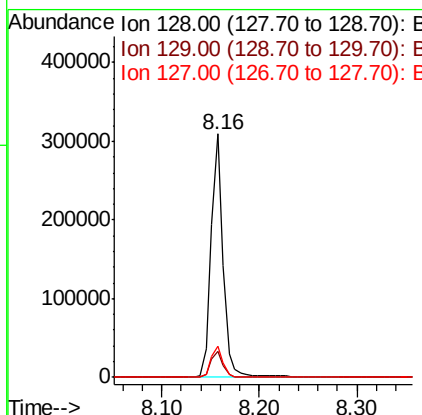
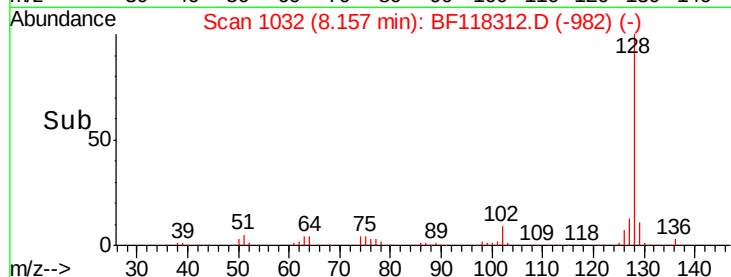
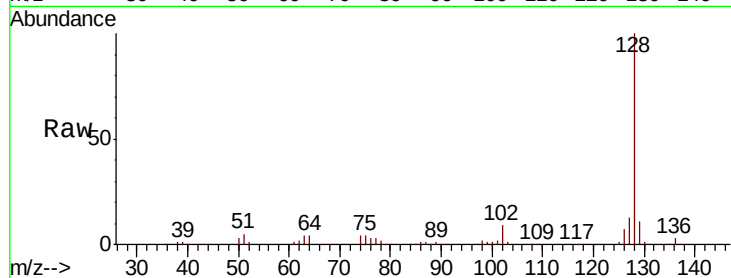




#31  
Naphthalene  
Concen: 10.892 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

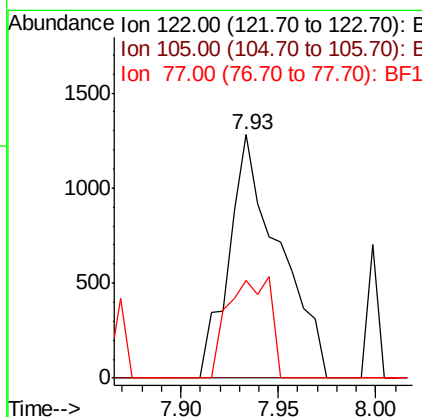
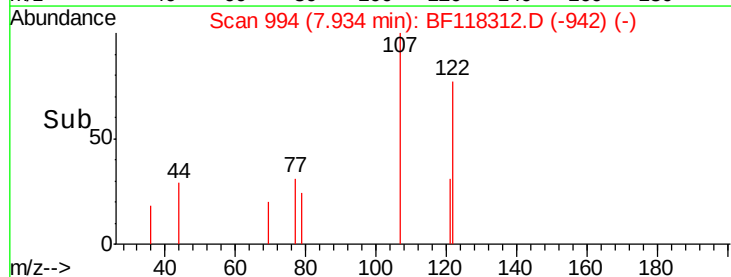
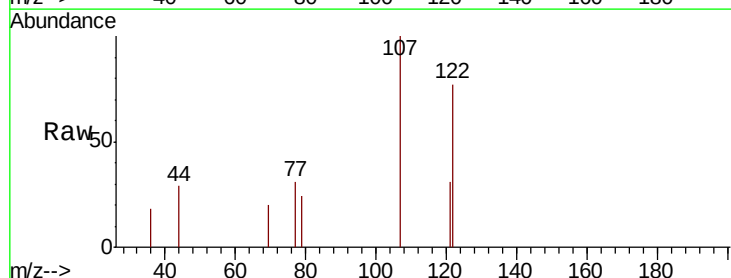
Instrument :  
BNA\_F  
ClientSampleId :

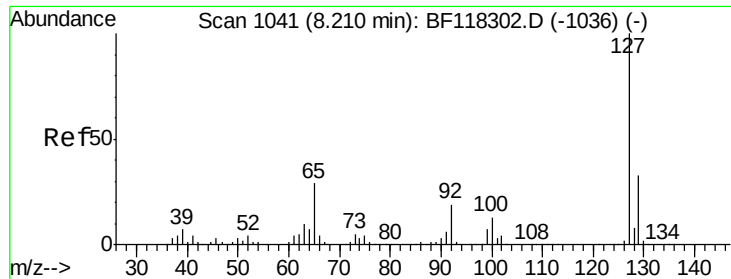
Tot Ion:128 Resp: 266456  
Ion Ratio Lower Upper  
128 100  
129 10.7 9.0 13.4  
127 12.9 11.0 16.4



#32  
Benzoic acid  
Concen: 6.069 ng  
RT: 7.93 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Tgt Ion:122 Resp: 2288  
Ion Ratio Lower Upper  
122 100  
105 0.0 106.8 146.8#  
77 40.2 70.4 110.4#

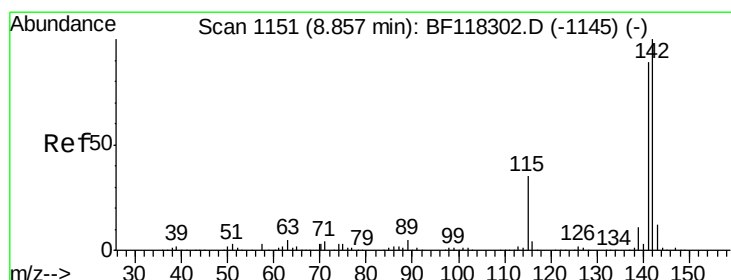
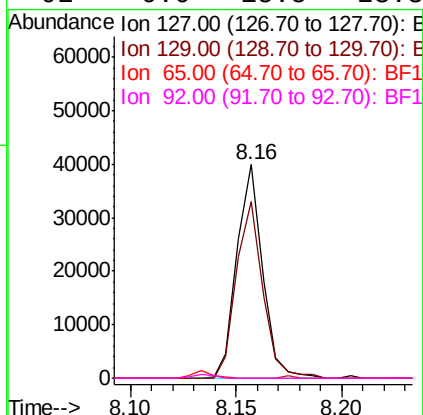
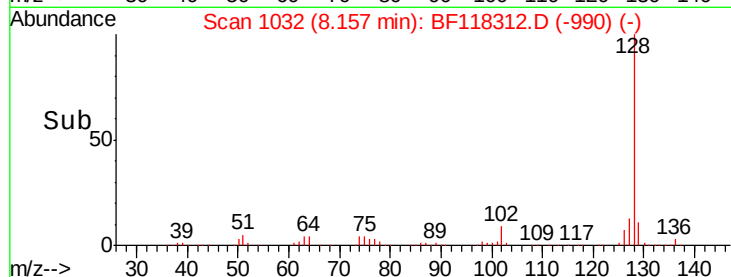
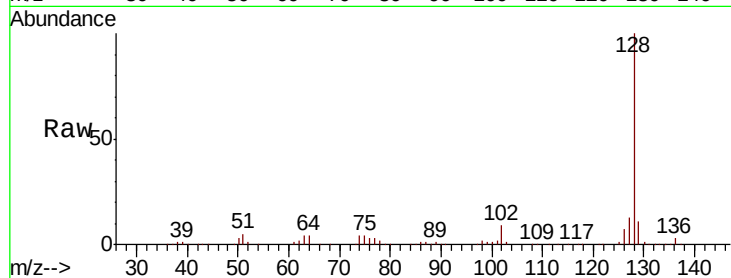




#33  
4-Chloroaniline  
Concen: 3.212 ng  
RT: 8.16 min Scan# 1032  
Delta R.T. -0.05 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

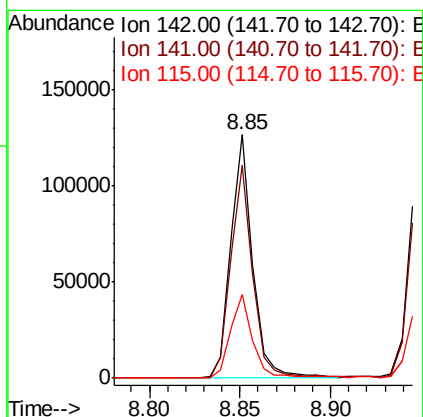
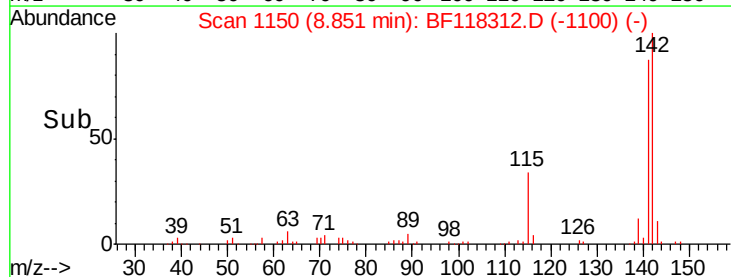
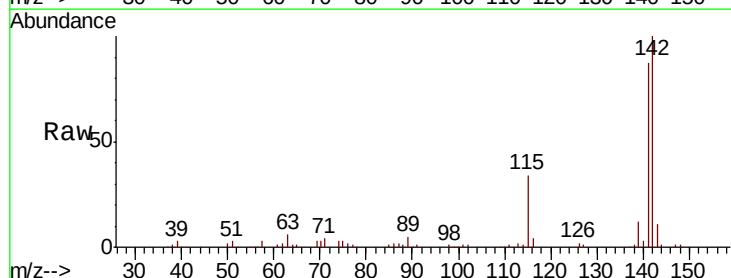
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:127 Resp: 33682  
Ion Ratio Lower Upper  
127 100  
129 82.7 26.5 39.7#  
65 0.0 22.8 34.2#  
92 0.0 15.5 23.3#

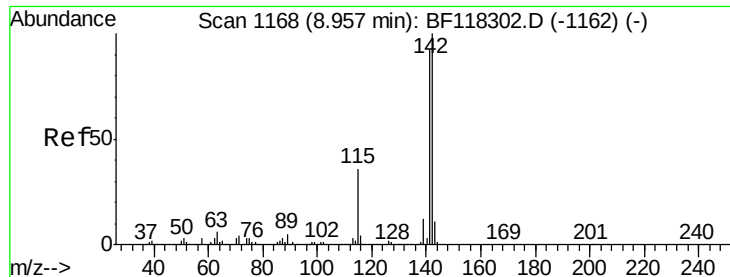


#37  
2-Methylnaphthalene  
Concen: 6.353 ng  
RT: 8.85 min Scan# 1150  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Tgt Ion:142 Resp: 106398  
Ion Ratio Lower Upper  
142 100  
141 87.5 71.2 106.8  
115 34.3 28.0 42.0



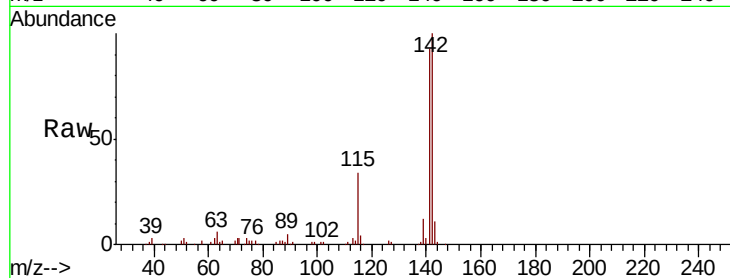




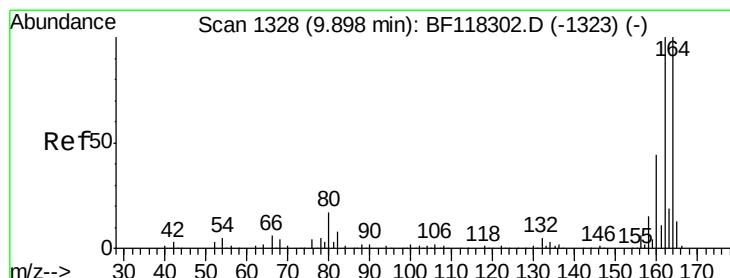
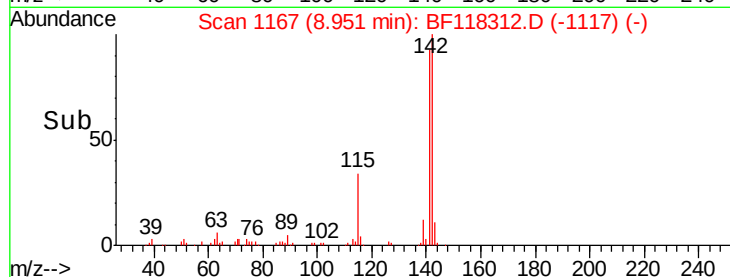
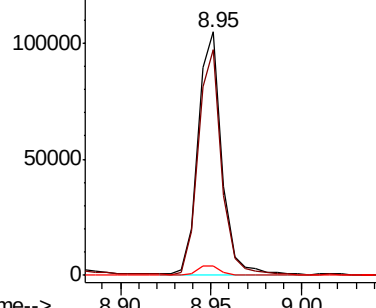
#38  
1-Methylnaphthalene  
Concen: 6.016 ng  
RT: 8.95 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:142 Resp: 94936  
Ion Ratio Lower Upper  
142 100  
141 92.7 73.4 110.2  
116 3.8 2.9 4.3

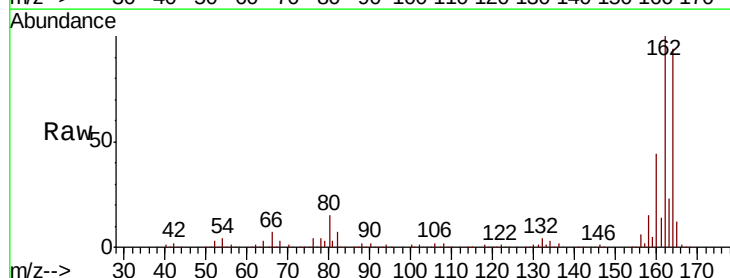


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

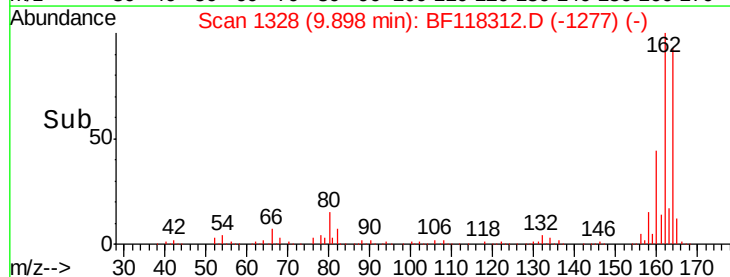
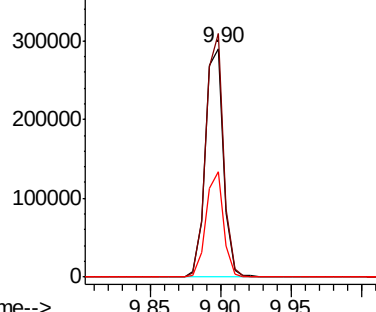


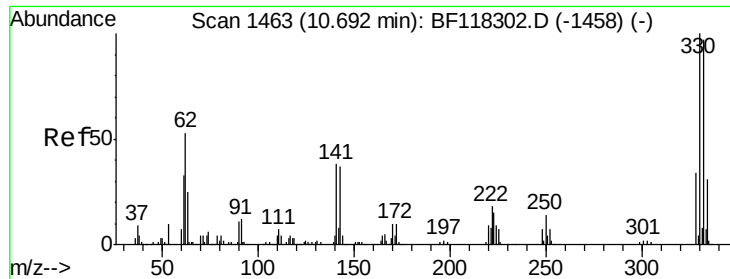
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.00 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Tgt Ion:164 Resp: 260040  
Ion Ratio Lower Upper  
164 100  
162 106.5 80.0 120.0  
160 46.4 34.8 52.2



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

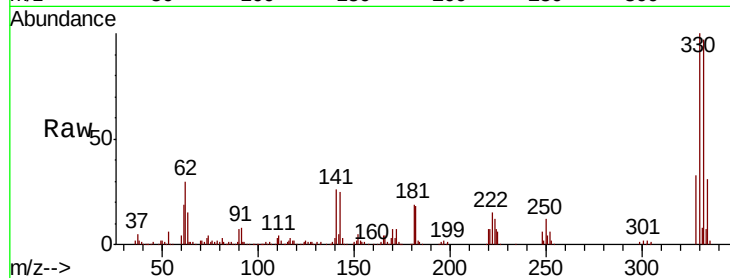




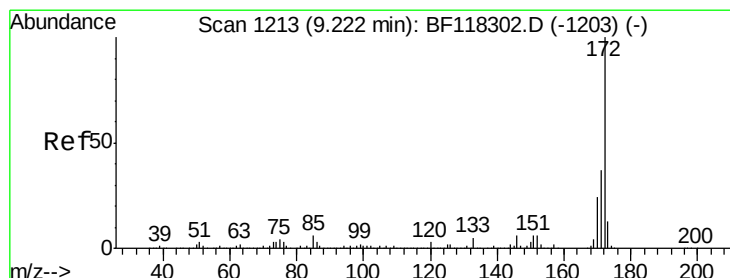
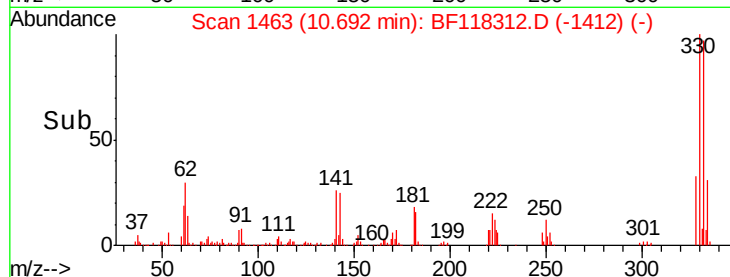
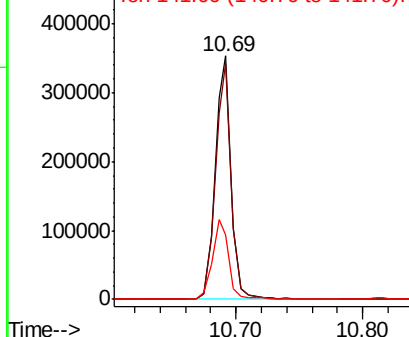
#42  
 2,4,6-Tribromophenol  
 Concen: 97.790 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. 0.00 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.9  | 76.6  | 114.8 |
| 141     | 34.4  | 26.0  | 39.0  |

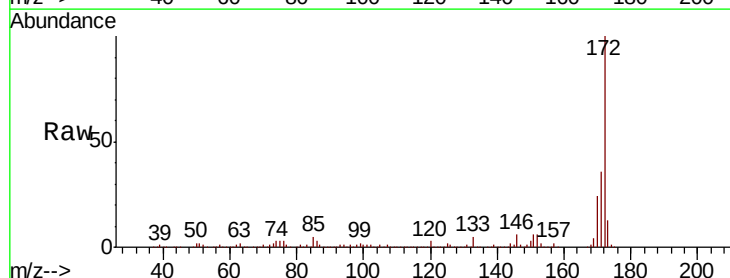


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

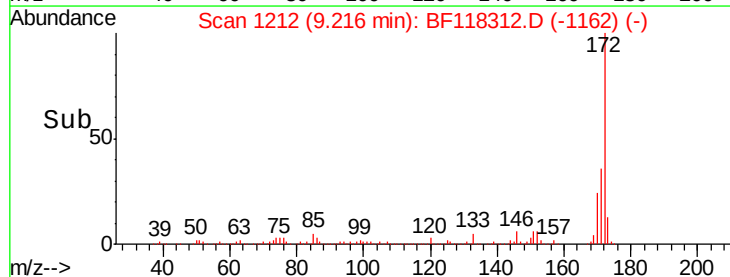
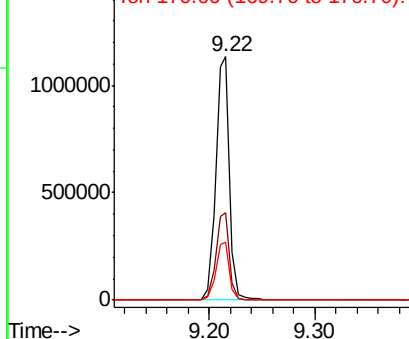


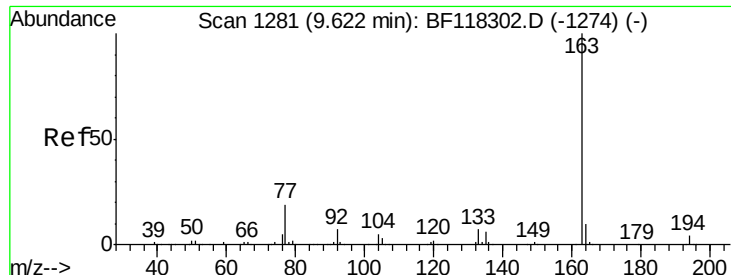
#45  
 2-Fluorobiphenyl  
 Concen: 61.573 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.01 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.3  | 43.9  |
| 170     | 23.6  | 19.2  | 28.8  |



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

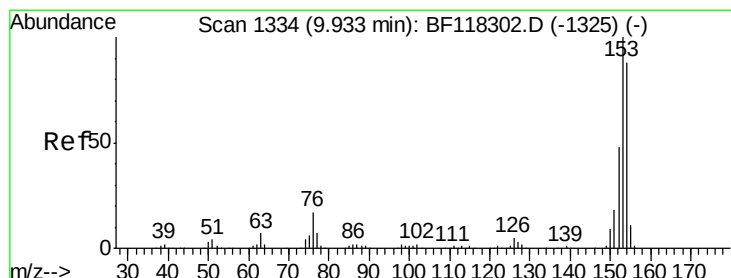
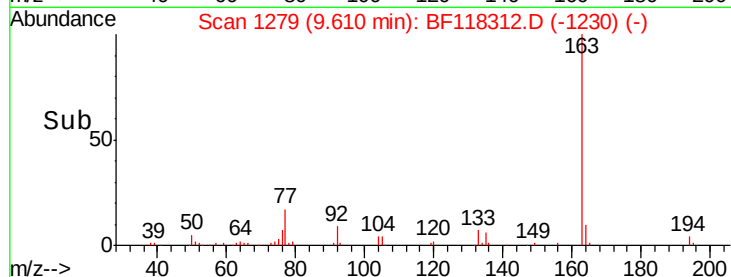
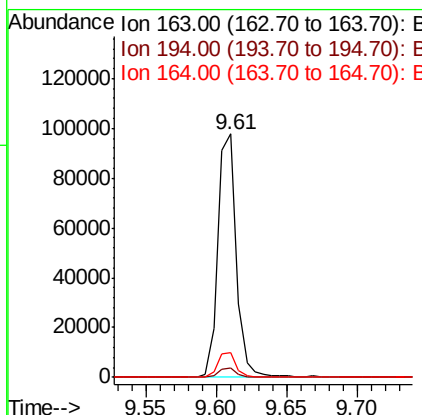
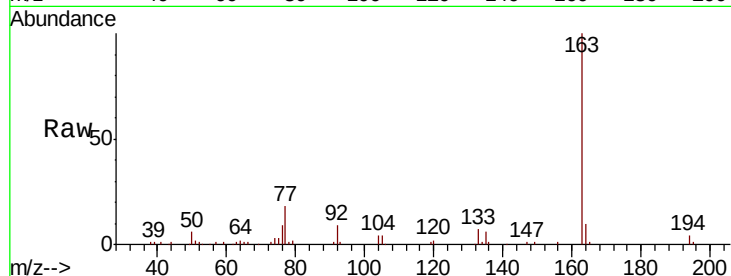




#50  
Dimethylphthalate  
Concen: 4.563 ng  
RT: 9.61 min Scan# 1279  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

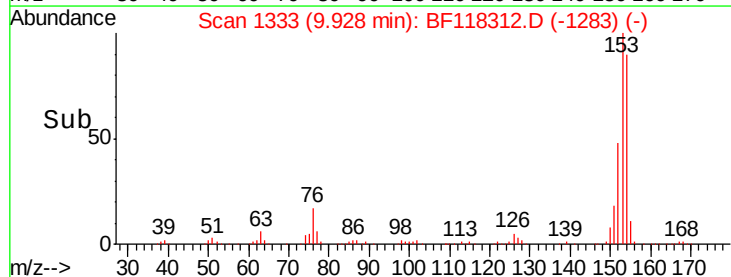
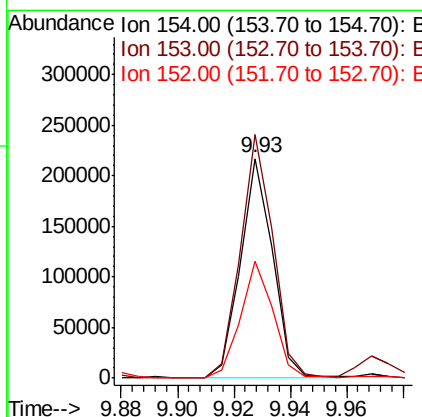
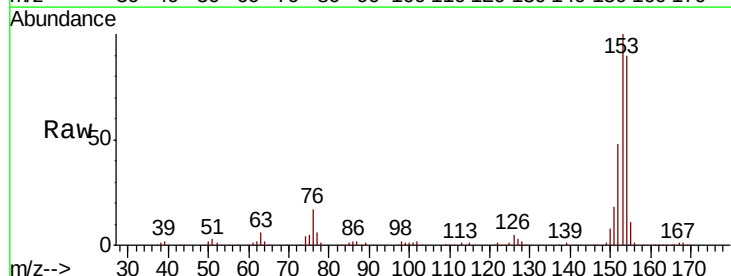
Instrument :  
BNA\_F  
ClientSampleId :

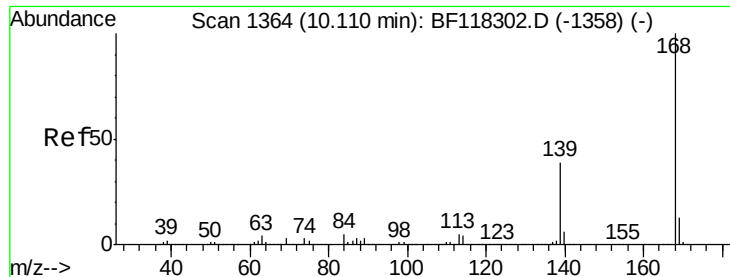
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.7   | 3.2   | 4.8   |
| 164     | 9.9   | 7.9   | 11.9  |



#52  
Acenaphthene  
Concen: 11.413 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 110.7 | 90.6  | 136.0 |
| 152     | 53.2  | 43.1  | 64.7  |

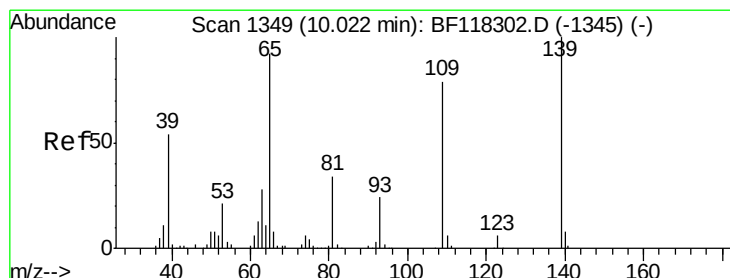
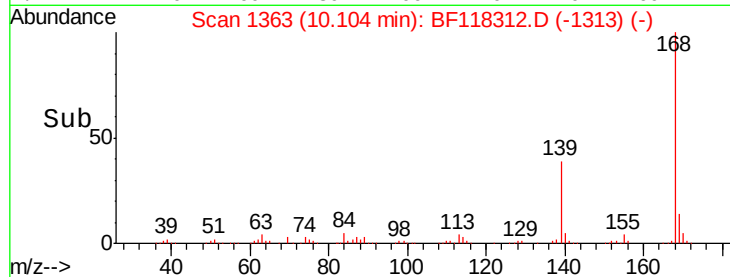
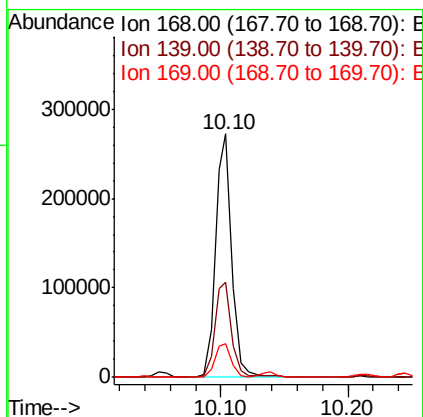
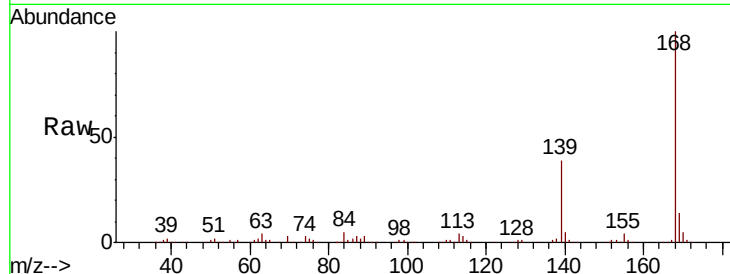




#55  
Dibenzofuran  
Concen: 11.129 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. -0.01 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

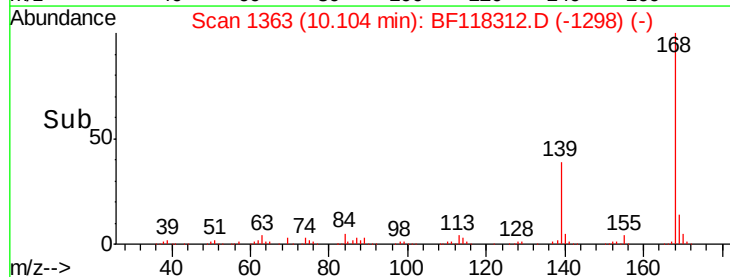
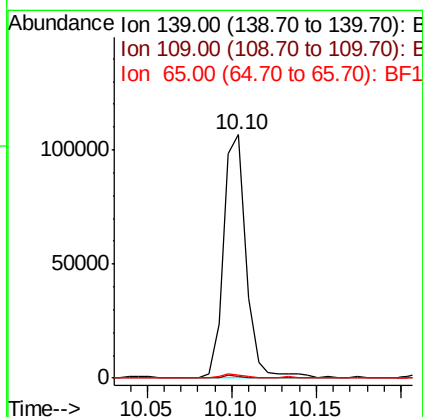
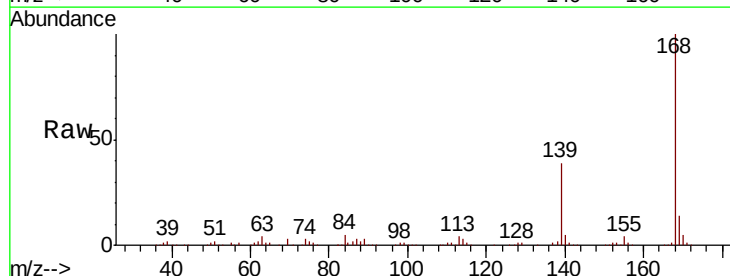
Instrument :  
BNA\_F  
ClientSampleId :

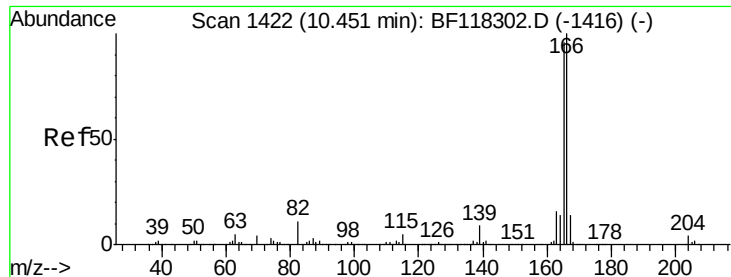
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.2  | 31.5  | 47.3  |
| 169     | 13.8  | 10.4  | 15.6  |



#56  
4-Nitrophenol  
Concen: 32.851 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. 0.08 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 0.9   | 59.3  | 99.3#  |
| 65      | 1.4   | 72.4  | 112.4# |

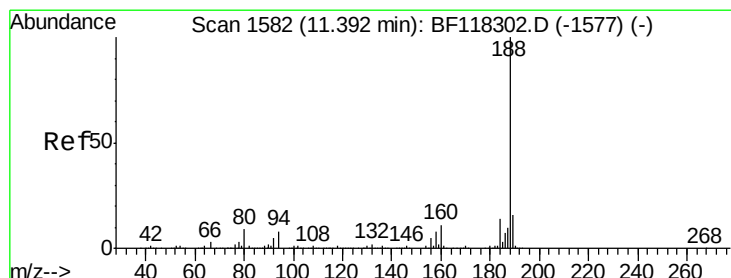
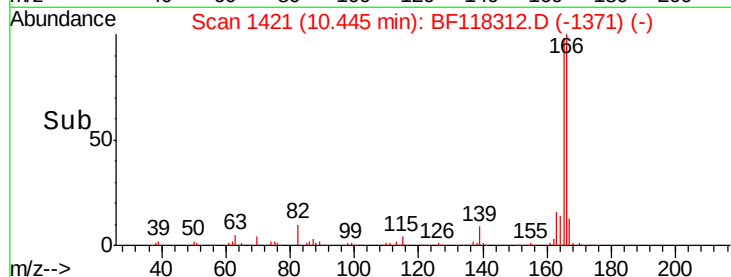
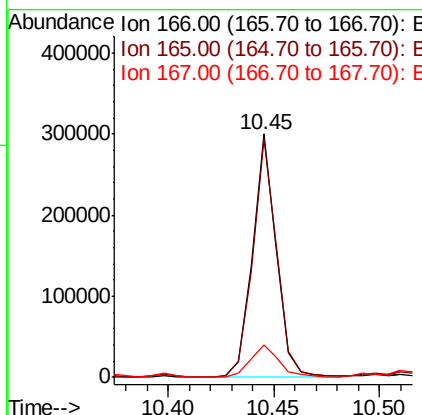
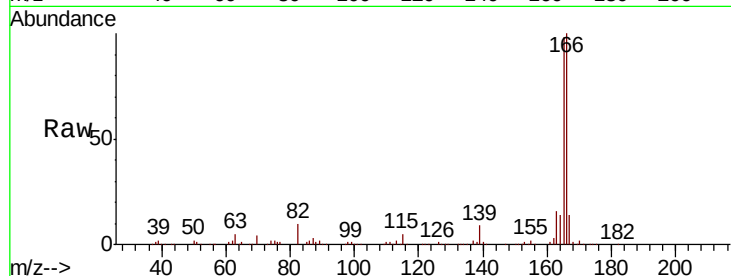




#58  
 Fluorene  
 Concen: 13.238 ng  
 RT: 10.45 min Scan# 1421  
 Delta R.T. -0.01 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

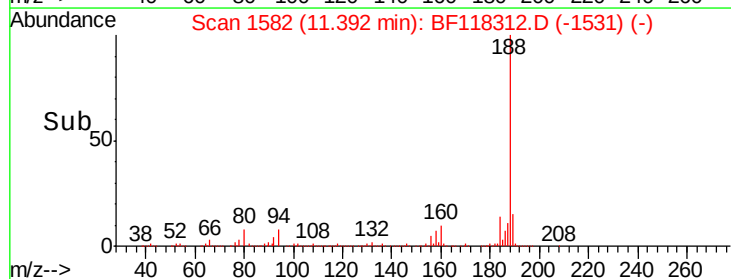
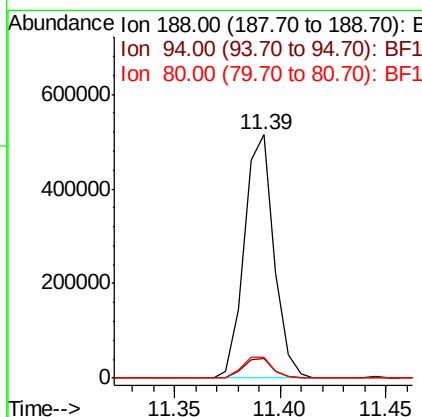
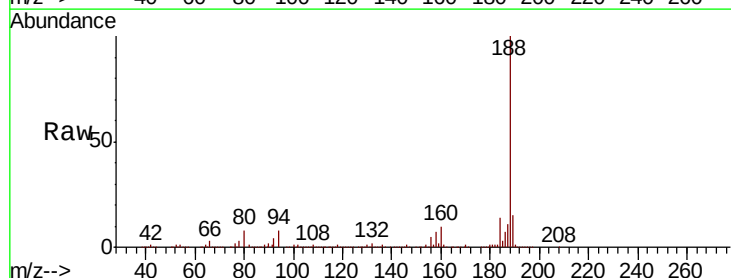
Instrument :  
 BNA\_F  
 ClientSampleId :

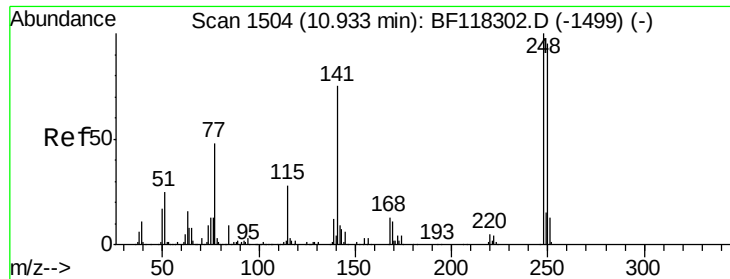
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.9  | 77.0  | 115.4 |
| 167     | 13.6  | 10.9  | 16.3  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1582  
 Delta R.T. -0.00 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.8   | 6.7   | 10.1  |
| 80      | 8.3   | 7.2   | 10.8  |

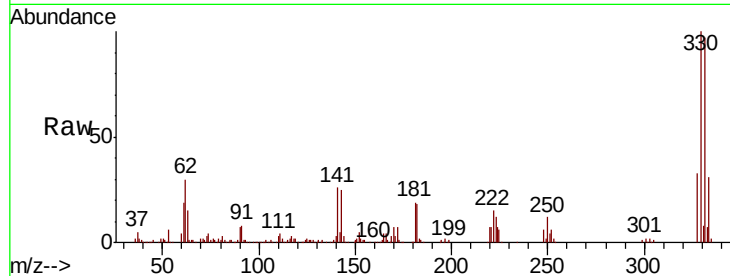




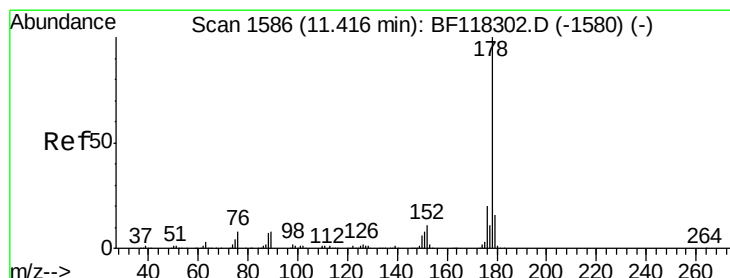
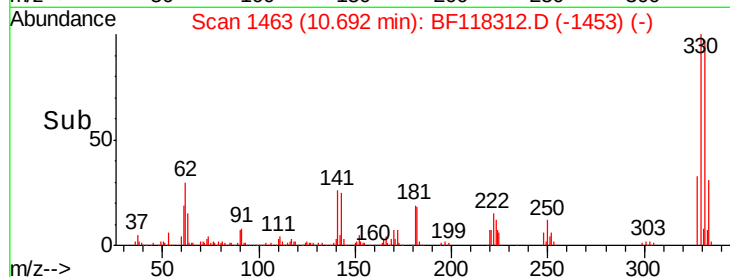
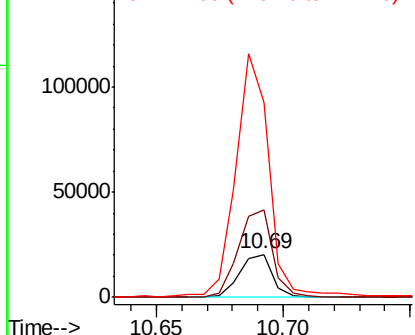
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.183 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.24 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 18661  
 Ion Ratio Lower Upper  
 248 100  
 250 203.2 76.4 114.6#  
 141 453.0 60.2 90.2#

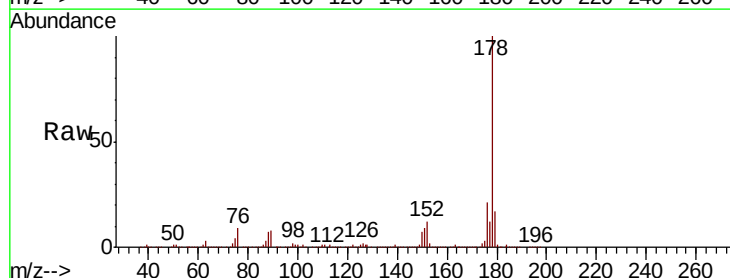


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

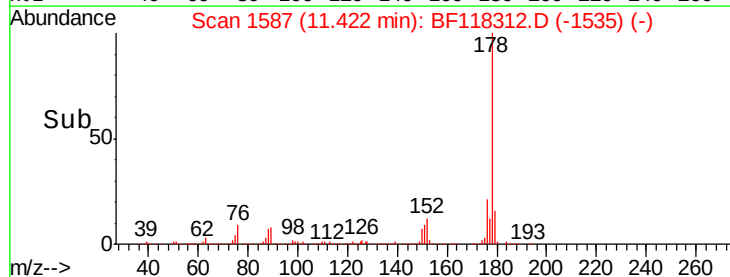
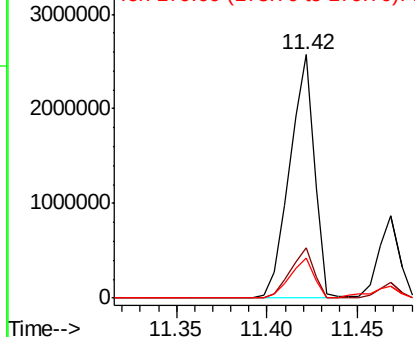


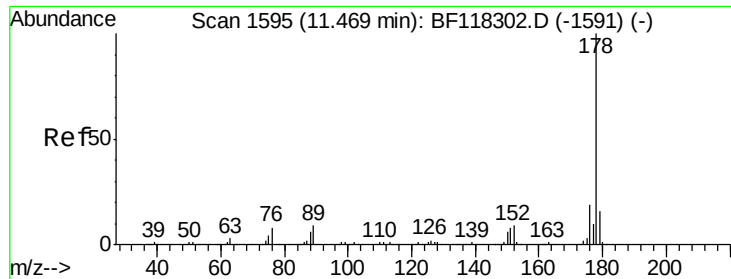
#71  
 Phenanthrene  
 Concen: 90.517 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. 0.01 min  
 Lab File: BF118312.D  
 Acq: 26 Dec 2019 13:13

Tgt Ion:178 Resp: 2472129  
 Ion Ratio Lower Upper  
 178 100  
 176 20.6 15.6 23.4  
 179 16.5 12.6 19.0



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





#72

Anthracene

Concen: 24.998 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.00 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

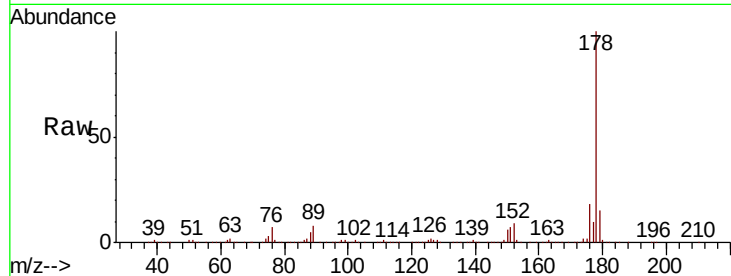
Tot Ion:178 Resp: 683363

Ion Ratio Lower Upper

178 100

176 18.5 15.2 22.8

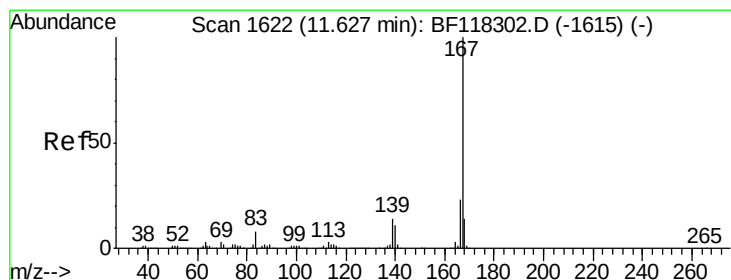
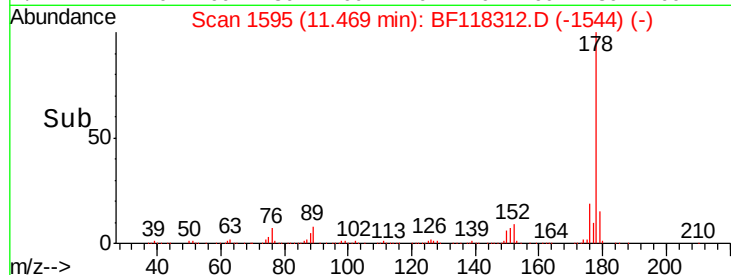
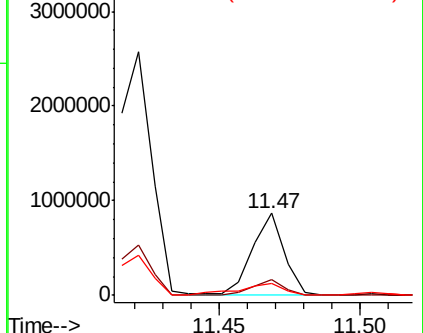
179 15.1 12.9 19.3



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

Carbazole

Concen: 10.850 ng

RT: 11.62 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

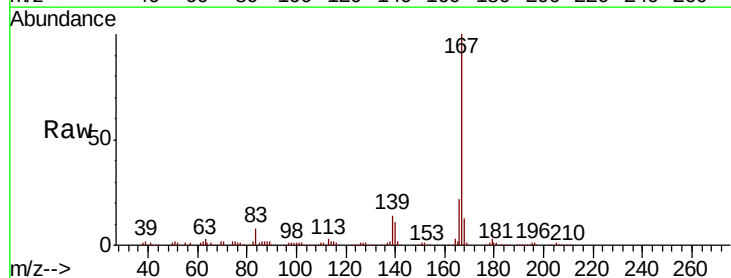
Tgt Ion:167 Resp: 263185

Ion Ratio Lower Upper

167 100

166 22.3 18.1 27.1

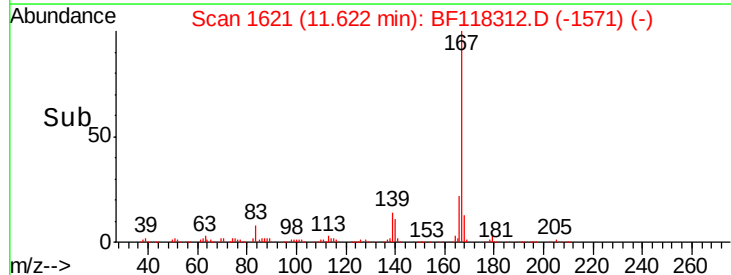
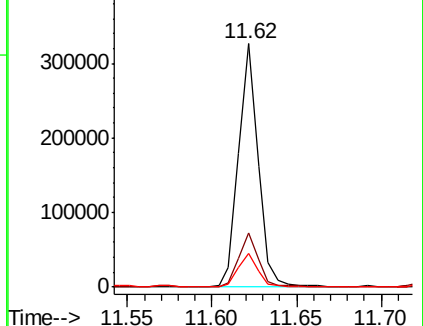
139 13.6 11.5 17.3

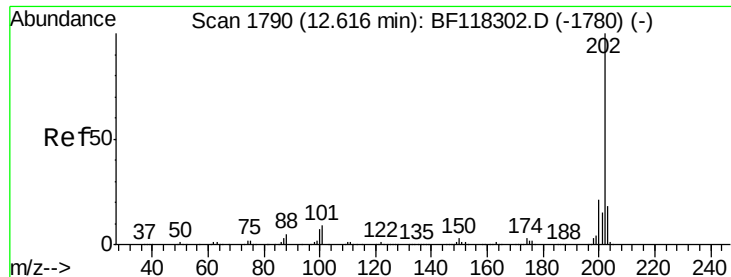


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 70.317 ng

RT: 12.62 min Scan# 1790

Delta R.T. -0.00 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

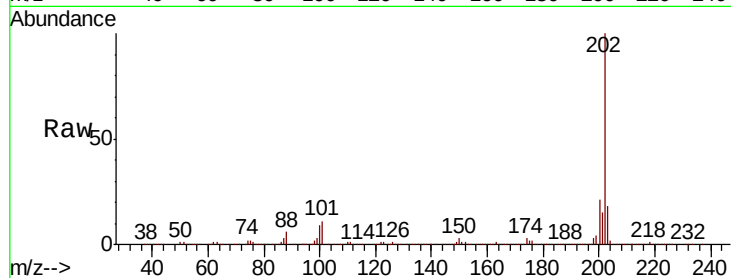
Tot Ion:202 Resp: 1938142

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 11.5  | 0.0   | 29.5  |
| 203 | 18.0  | 0.0   | 37.6  |

202 100

101 11.5 0.0 29.5

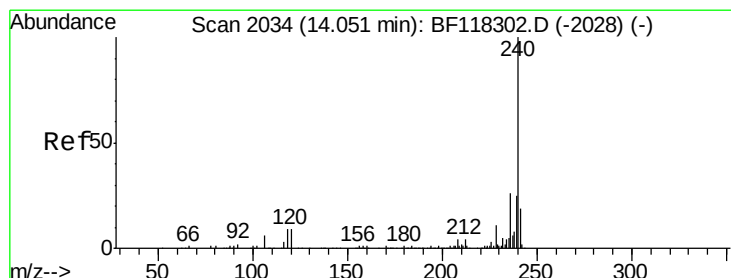
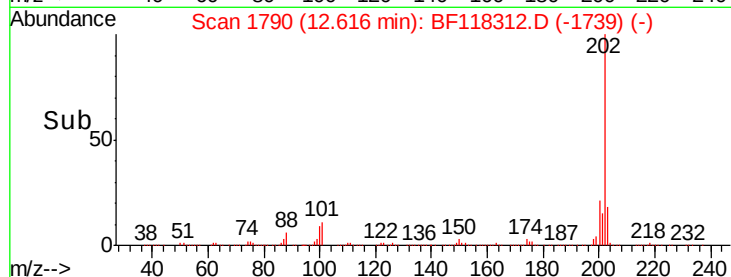
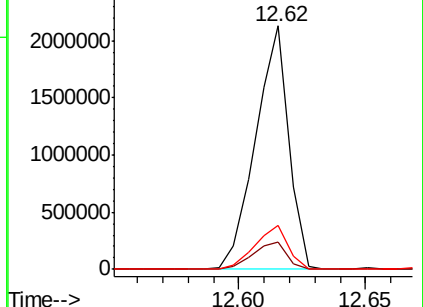
203 18.0 0.0 37.6



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

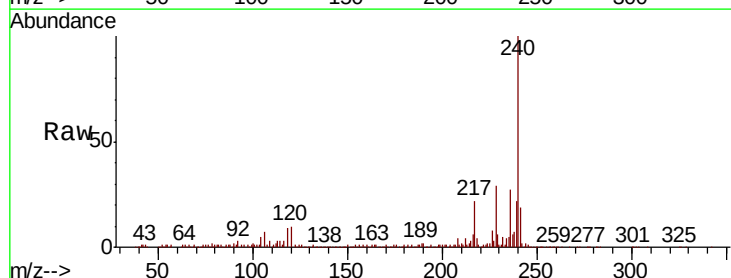
Tgt Ion:240 Resp: 318175

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 9.6   | 7.1   | 10.7  |
| 236 | 27.4  | 21.0  | 31.6  |

240 100

120 9.6 7.1 10.7

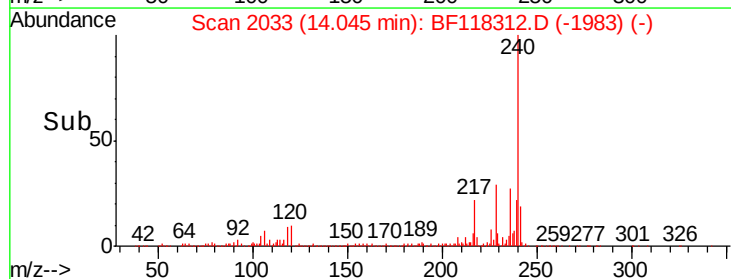
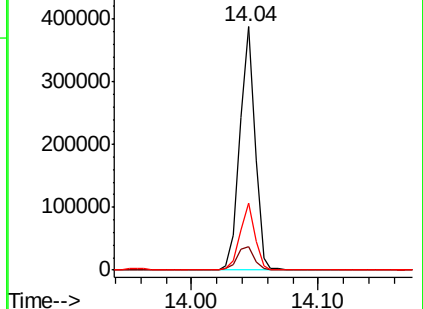
236 27.4 21.0 31.6



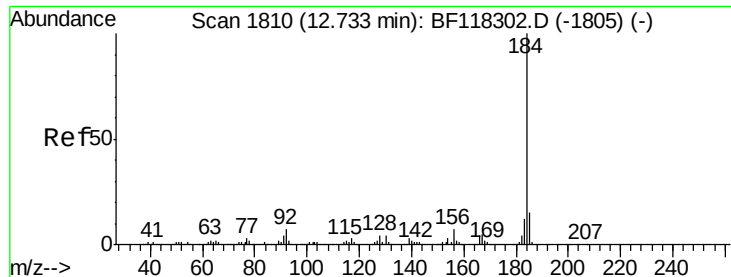
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E







#77

Benzidine

Concen: 2.042 ng

RT: 12.98 min Scan# 1852

Delta R.T. 0.25 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampled :

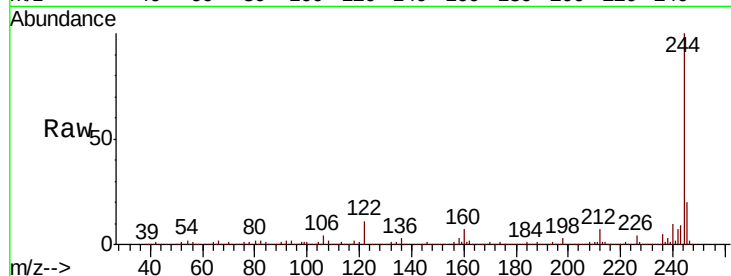
Tot Ion:184 Resp: 17801

Ion Ratio Lower Upper

184 100

185 16.8 12.3 18.5

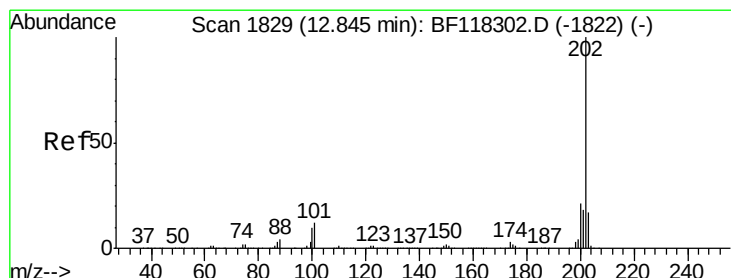
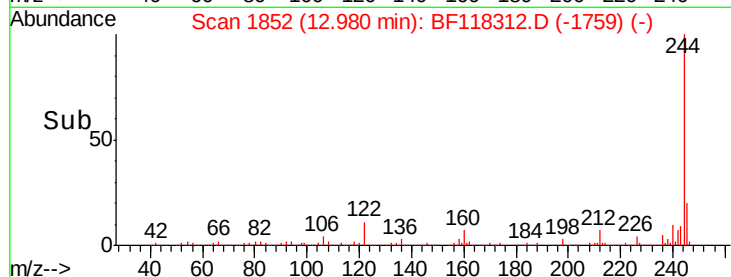
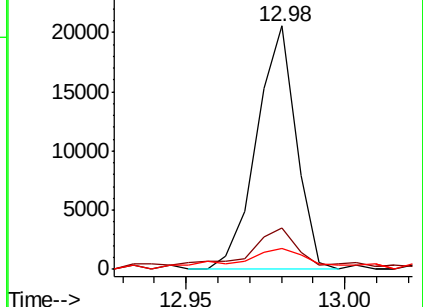
183 8.5 9.4 14.2#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 54.795 ng

RT: 12.84 min Scan# 1829

Delta R.T. 0.00 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

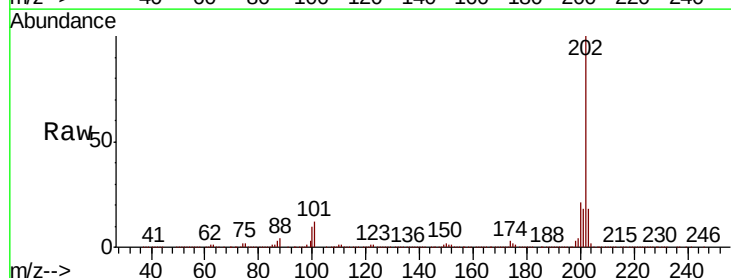
Tgt Ion:202 Resp: 1423713

Ion Ratio Lower Upper

202 100

200 21.5 16.8 25.2

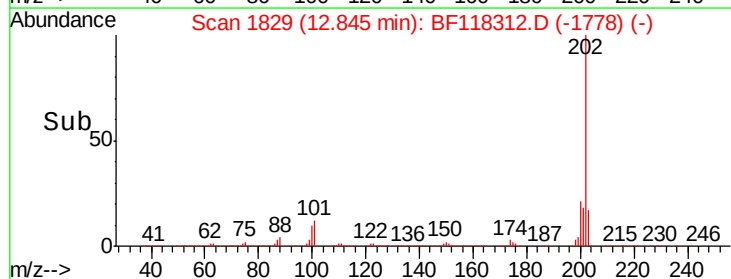
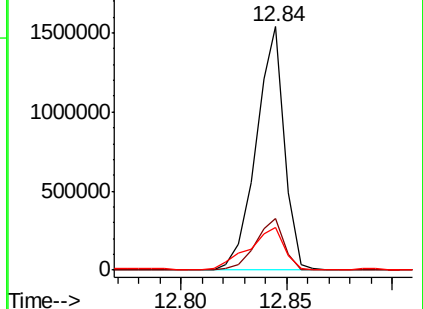
203 17.8 13.9 20.9

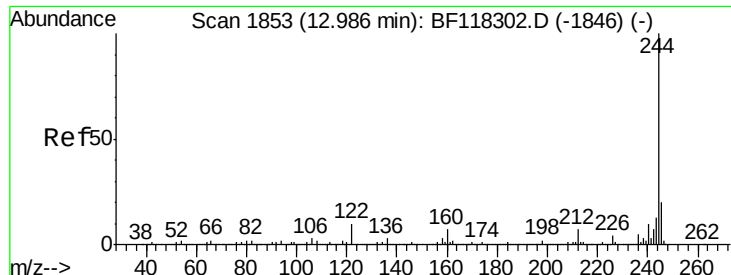


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 65.008 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

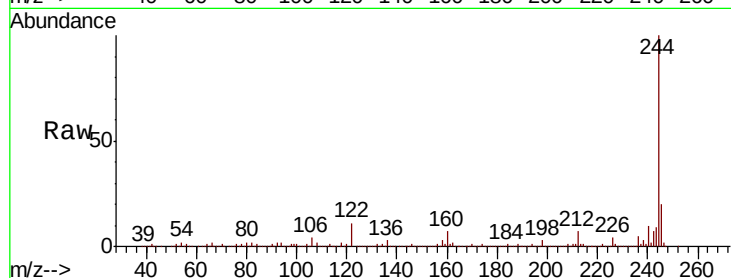
Tot Ion:244 Resp: 1246742

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

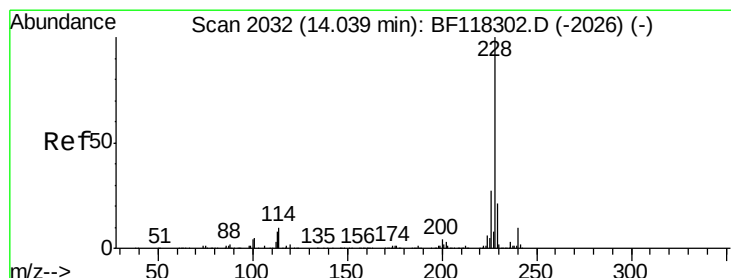
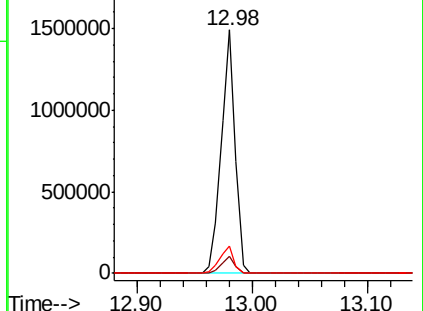
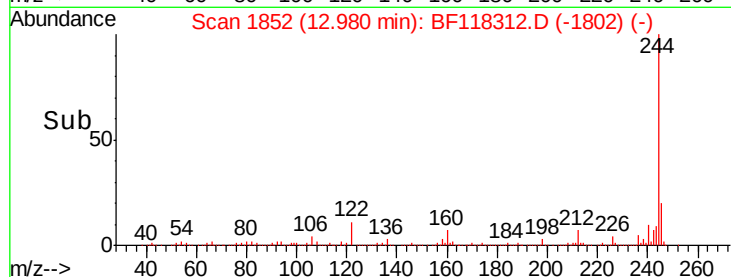
122 11.1 7.8 11.8



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



#81

Benzo(a)anthracene

Concen: 29.819 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

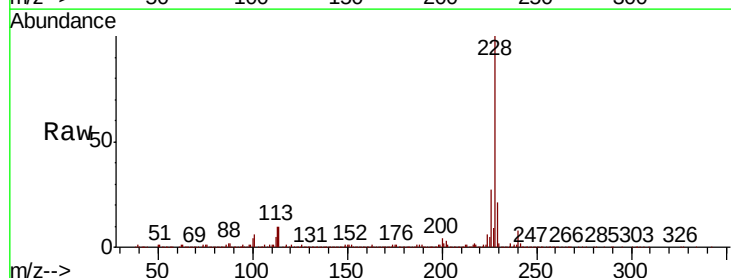
Tgt Ion:228 Resp: 664117

Ion Ratio Lower Upper

228 100

226 27.0 22.0 33.0

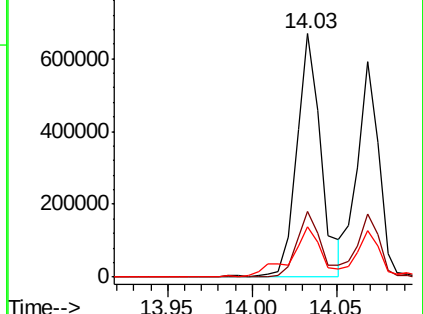
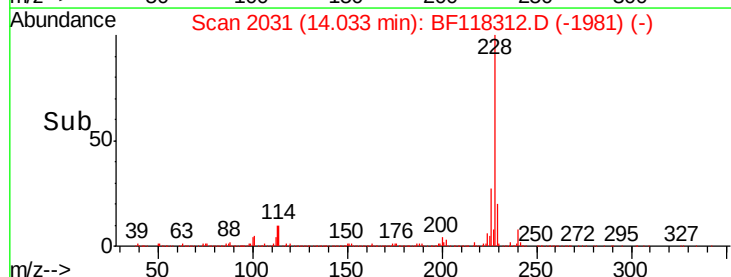
229 20.6 16.6 24.8

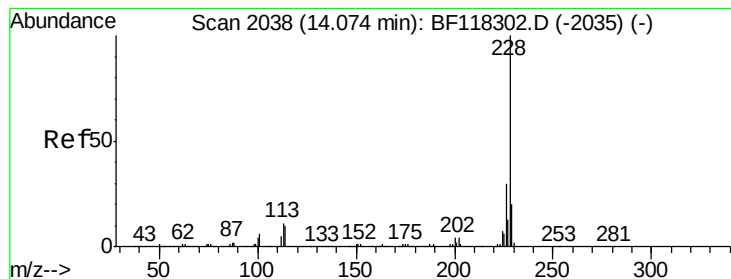


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 24.586 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampled :

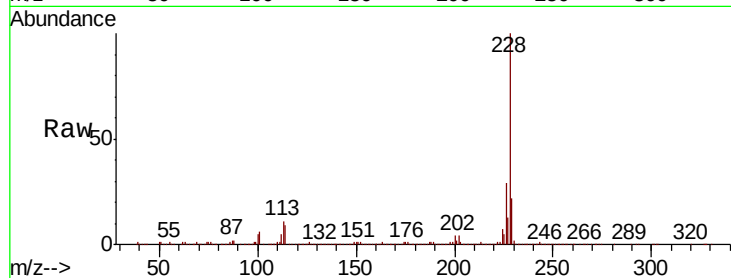
Tot Ion:228 Resp: 524297

Ion Ratio Lower Upper

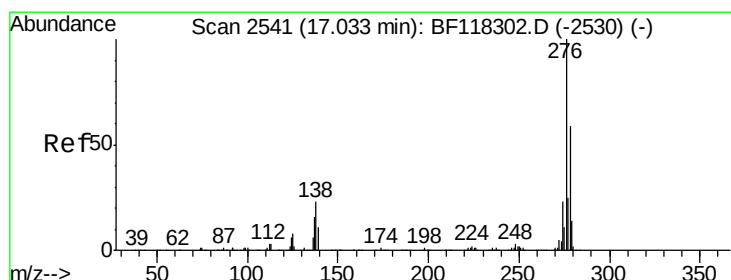
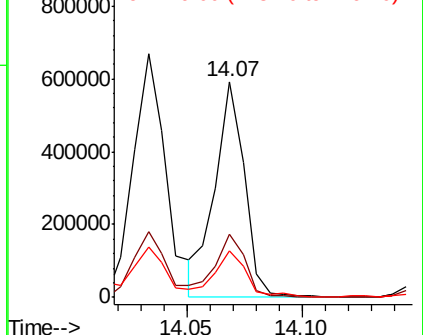
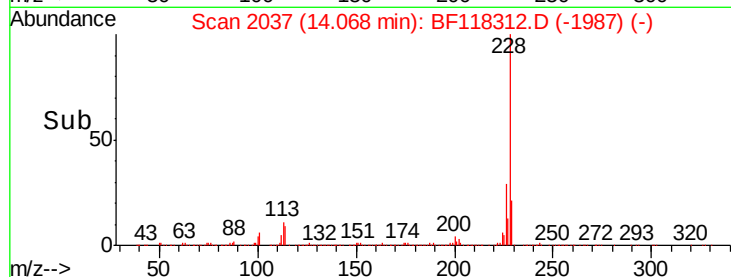
228 100

226 29.1 23.9 35.9

229 21.7 16.1 24.1



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 13.982 ng

RT: 17.03 min Scan# 2540

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

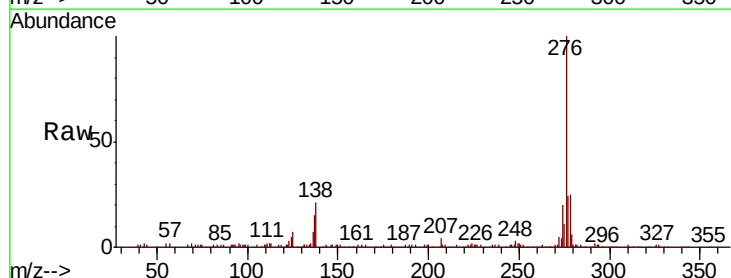
Tgt Ion:276 Resp: 254063

Ion Ratio Lower Upper

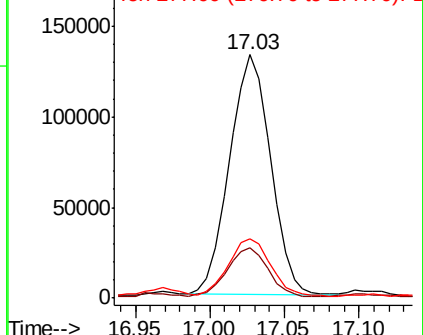
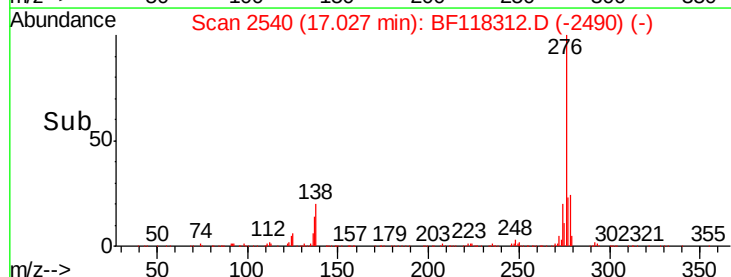
276 100

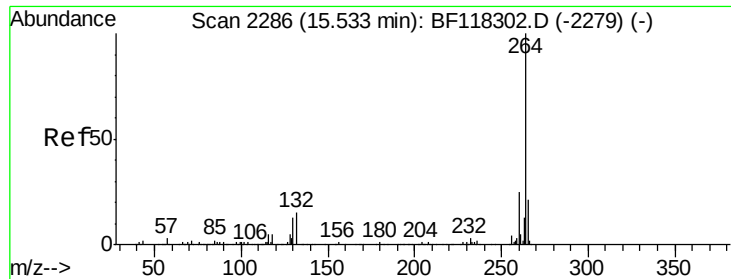
138 20.8 19.5 29.3

277 24.6 20.6 30.8



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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.53 min Scan# 2285

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

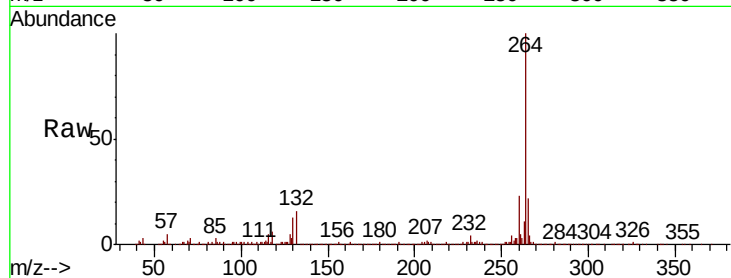
Tot Ion:264 Resp: 358218

Ion Ratio Lower Upper

264 100

260 23.1 19.8 29.6

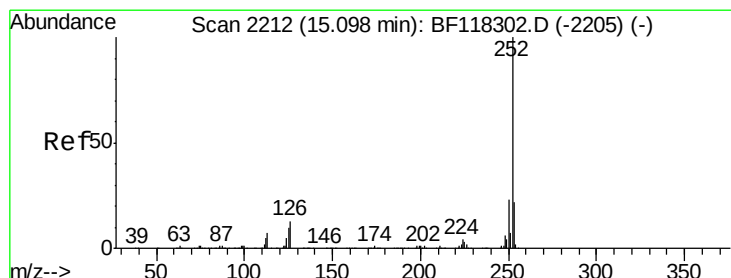
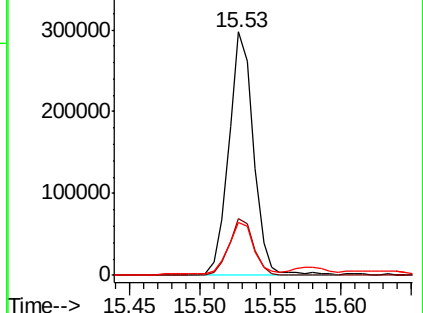
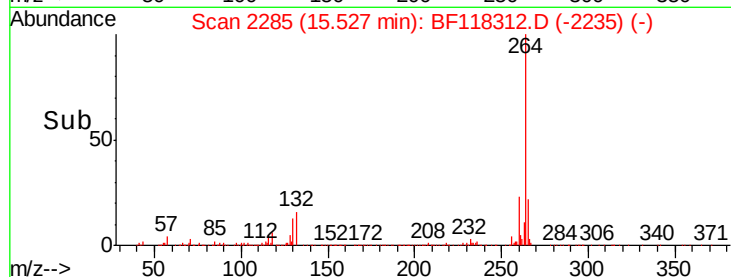
265 21.8 17.0 25.4



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



#88

Benzo(b)fluoranthene

Concen: 34.183 ng

RT: 15.10 min Scan# 2212

Delta R.T. -0.00 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

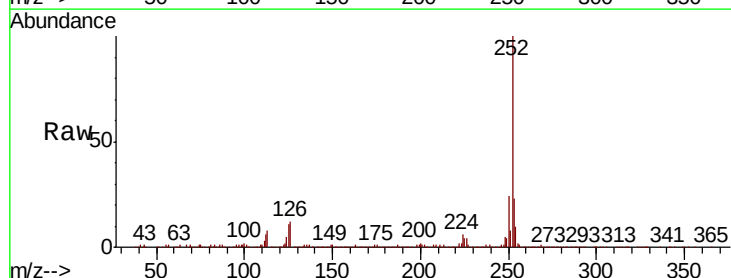
Tgt Ion:252 Resp: 812822

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

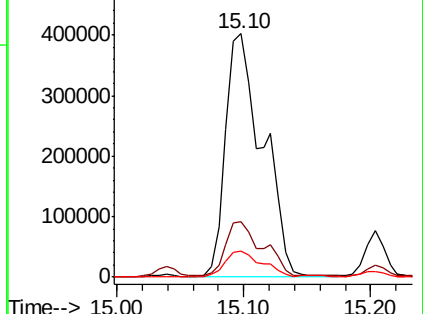
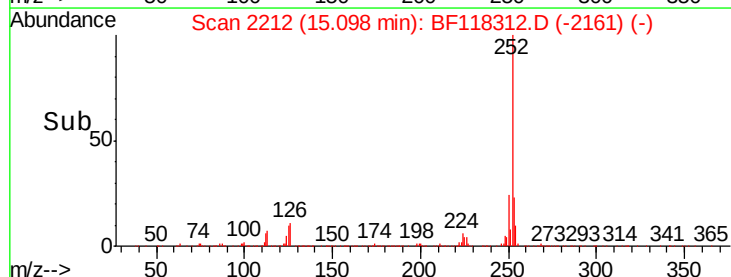
125 10.5 7.7 11.5

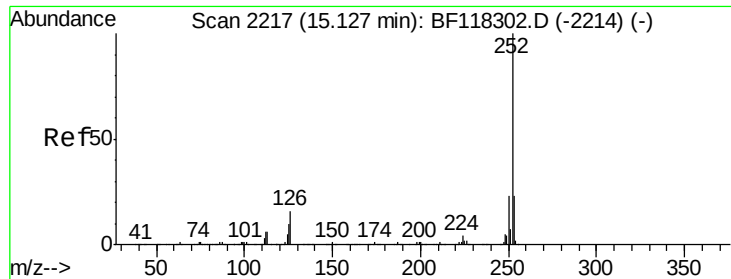


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

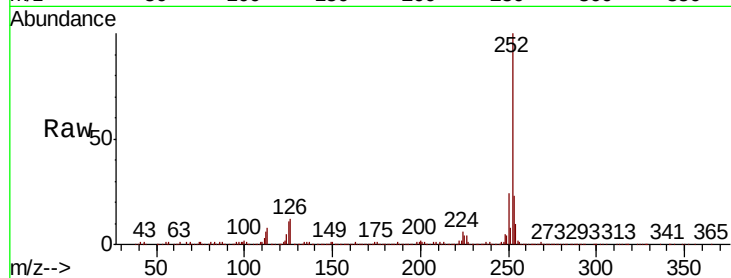




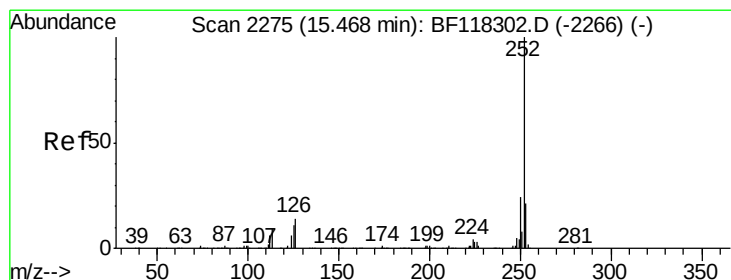
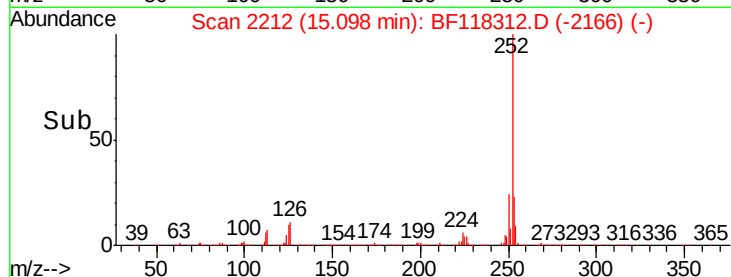
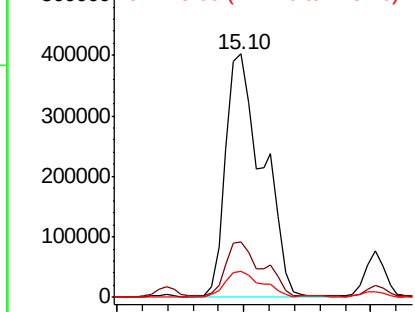
#89  
Benzo(k)fluoranthene  
Concen: 35.601 ng  
RT: 15.10 min Scan# 2212  
Delta R.T. -0.03 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.0  | 27.0  |
| 125     | 10.5  | 8.0   | 12.0  |

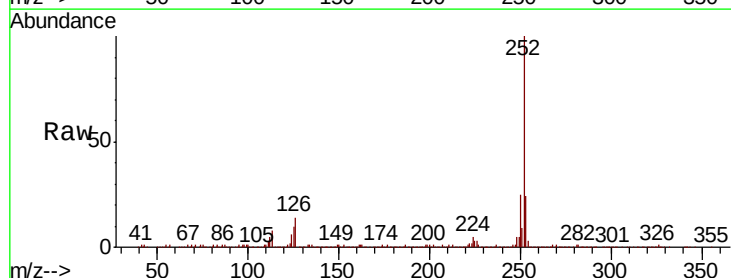


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

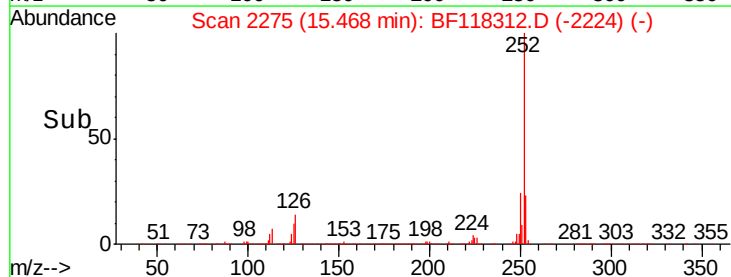
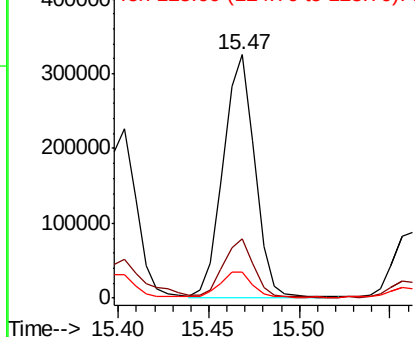


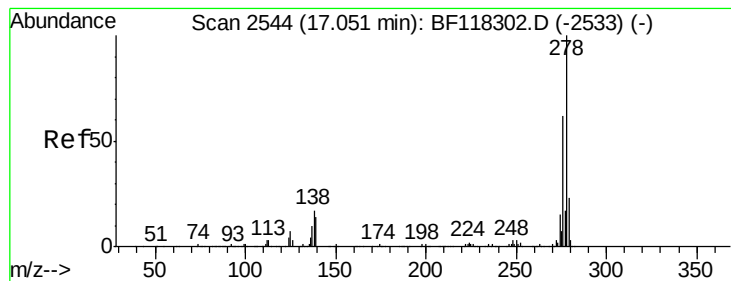
#90  
Benzo(a)pyrene  
Concen: 18.721 ng  
RT: 15.47 min Scan# 2275  
Delta R.T. -0.00 min  
Lab File: BF118312.D  
Acq: 26 Dec 2019 13:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.0  | 25.6  |
| 125     | 10.4  | 9.0   | 13.4  |



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

Dibenzo(a,h)anthracene

Concen: 3.291 ng

RT: 17.20 min Scan# 2570

Delta R.T. 0.15 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

Instrument :

BNA\_F

ClientSampleId :

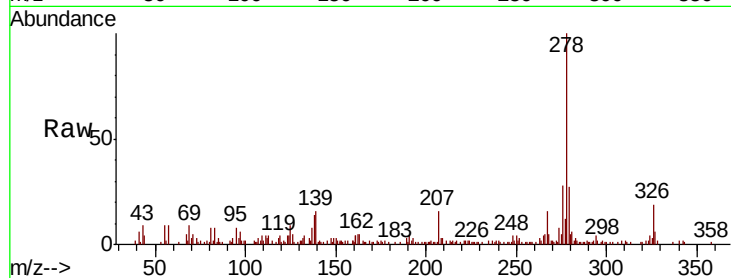
Tot Ion:278 Resp: 59830

Ion Ratio Lower Upper

278 100

139 15.6 11.5 17.3

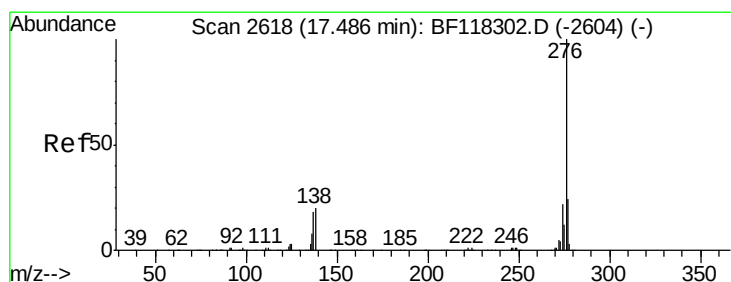
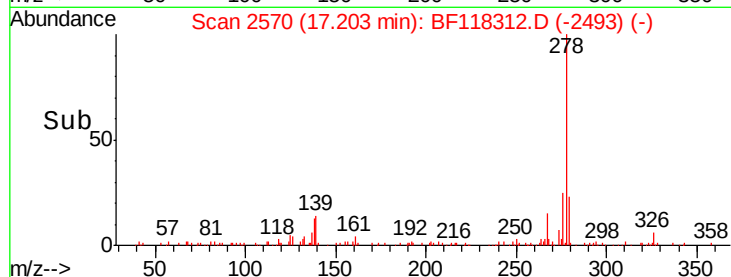
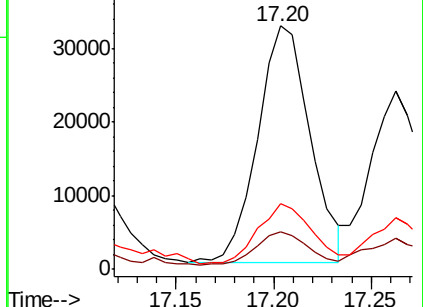
279 27.0 18.3 27.5



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



#92

Benzo(g,h,i)perylene

Concen: 12.335 ng

RT: 17.48 min Scan# 2617

Delta R.T. -0.01 min

Lab File: BF118312.D

Acq: 26 Dec 2019 13:13

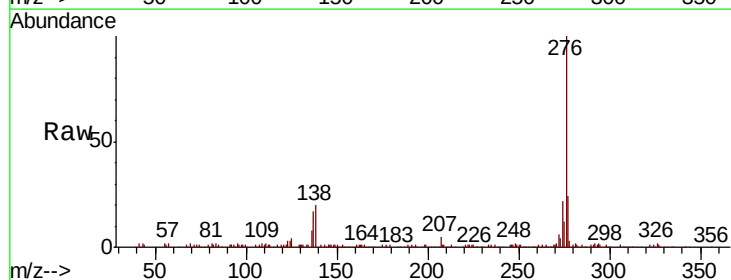
Tgt Ion:276 Resp: 216599

Ion Ratio Lower Upper

276 100

277 24.0 19.1 28.7

138 20.3 16.1 24.1



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

