

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF042020\  
 Data File : BF120080.D  
 Acq On : 20 Apr 2020 16:23  
 Operator : MA/SJ  
 Sample : L2314-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-2-1

Quant Time: Apr 20 17:33:25 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF040820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 20 14:10:57 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.71  | 152  | 156478   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 604314   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.76  | 164  | 299154   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.24 | 188  | 534927   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.89 | 240  | 370077   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.31 | 264  | 334776   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.32  | 112 | 593973  | 65.60 | ng | 0.00  |
| 7) Phenol-d6             | 6.35  | 99  | 778716  | 66.74 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.28  | 82  | 511511  | 43.79 | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 10.55 | 330 | 207002  | 56.52 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 9.08  | 172 | 1040074 | 49.36 | ng | 0.00  |
| 79) Terphenyl-d14        | 12.83 | 244 | 1029319 | 46.80 | ng | -0.01 |

## Target Compounds

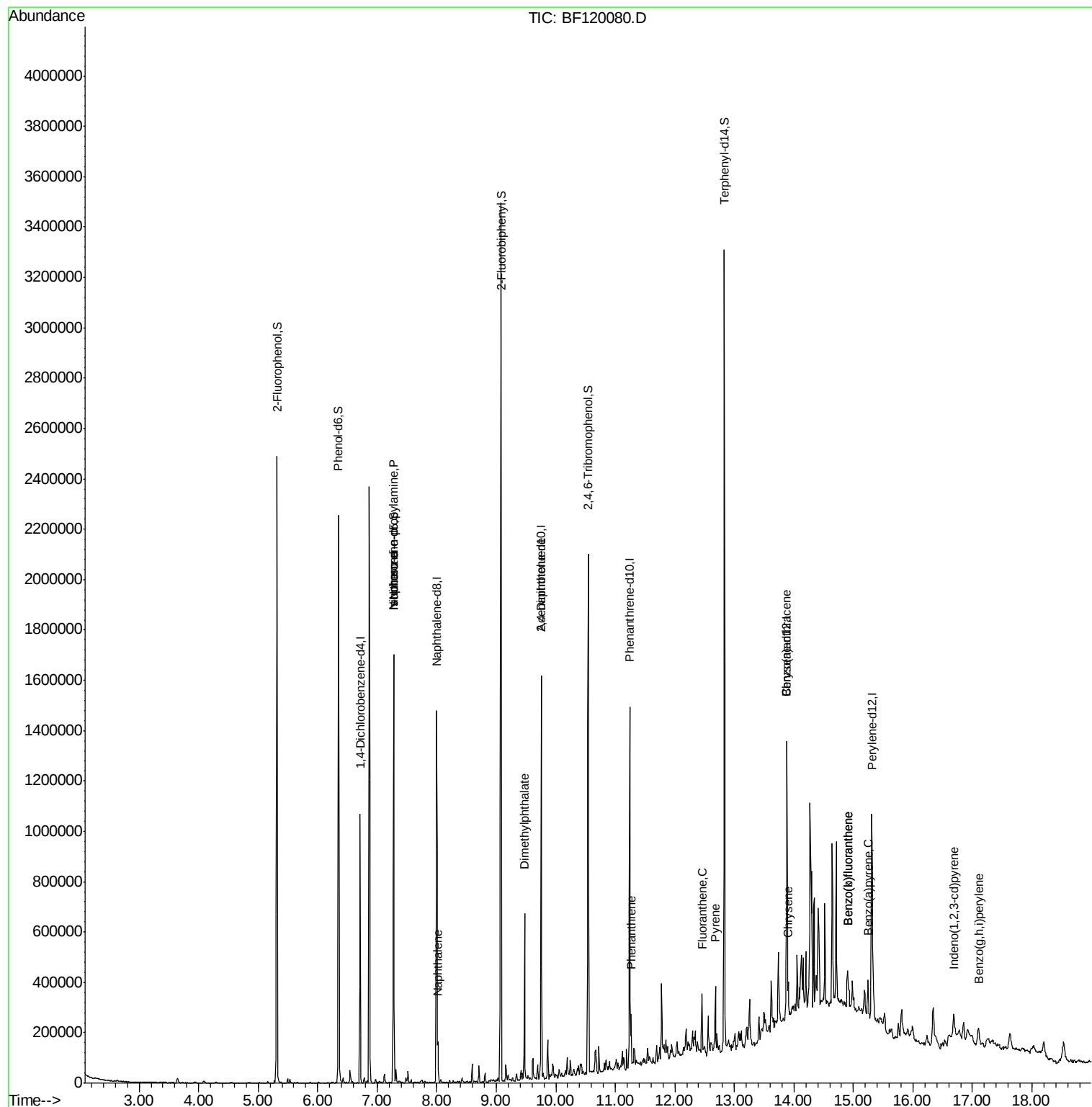
|                                | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.26  | 77   | 293      | Below Cal |       | # 32   |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 67303    | 8.971     | ng    | # 77   |
| 25) Isophorone                 | 7.28  | 82   | 506794   | 22.506    | ng    | # 65   |
| 31) Naphthalene                | 8.02  | 128  | 67097    | 2.110     | ng    | 96     |
| 50) Dimethylphthalate          | 9.47  | 163  | 213647   | 9.233     | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 38789    | 5.810     | ng    | # 23   |
| 71) Phenanthrene               | 11.26 | 178  | 68800    | 2.417     | ng    | 98     |
| 75) Fluoranthene               | 12.46 | 202  | 86529    | 2.817     | ng    | 95     |
| 78) Pyrene                     | 12.68 | 202  | 98410    | 3.154     | ng    | 100    |
| 81) Benzo(a)anthracene         | 13.87 | 228  | 56014    | 2.301     | ng    | # 85   |
| 83) Chrysene                   | 13.91 | 228  | 55805    | 2.256     | ng    | # 94   |
| 86) Indeno(1,2,3-cd)pyrene     | 16.69 | 276  | 44633    | 2.047     | ng    | 95     |
| 88) Benzo(b)fluoranthene       | 14.90 | 252  | 95346    | 3.959     | ng    | # 93   |
| 89) Benzo(k)fluoranthene       | 14.90 | 252  | 95346    | 4.589     | ng    | # 94   |
| 90) Benzo(a)pyrene             | 15.24 | 252  | 60454    | 2.986     | ng    | # 94   |
| 92) Benzo(g,h,i)perylene       | 17.10 | 276  | 44617    | 2.520     | ng    | 95     |

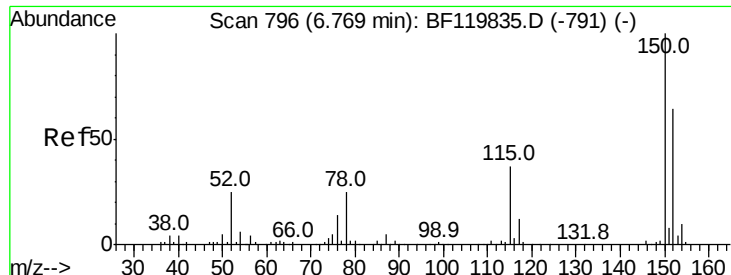
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA F\Data\BF042020\  
Data File : BF120080.D  
Acq On : 20 Apr 2020 16:23  
Operator : MA/SJ  
Sample : L2314-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
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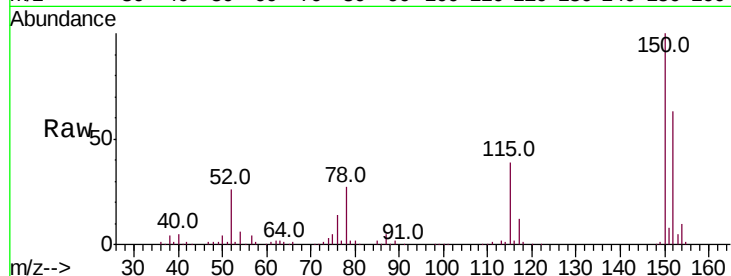


#1

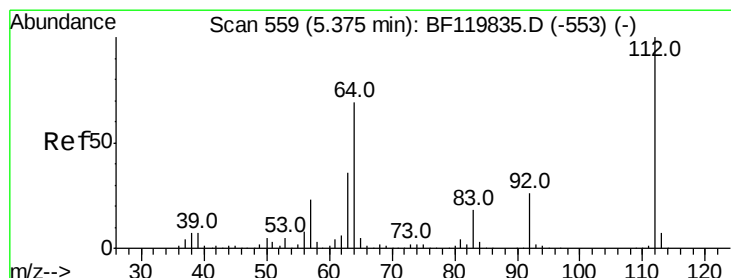
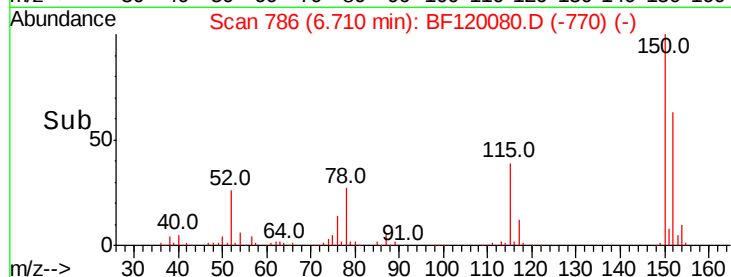
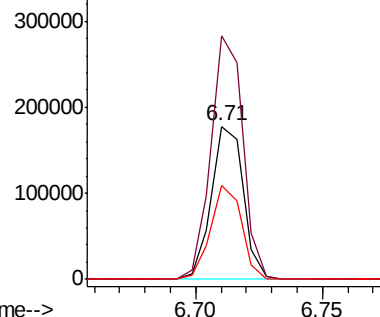
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.71 min Scan# 786  
 Delta R.T. -0.01 min  
 Lab File: BF120080.D  
 Acq: 20 Apr 2020 16:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-2-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.8 | 124.8 | 187.2 |
| 115     | 61.2  | 46.5  | 69.7  |



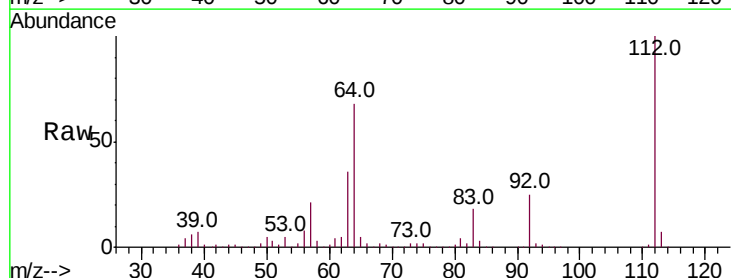
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



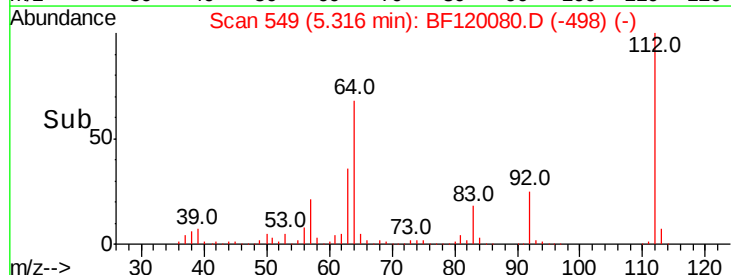
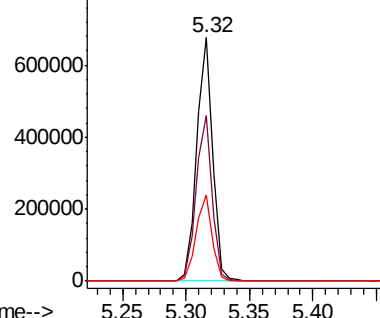
#5

2-Fluorophenol  
 Concen: 65.600 ng  
 RT: 5.32 min Scan# 549  
 Delta R.T. 0.00 min  
 Lab File: BF120080.D  
 Acq: 20 Apr 2020 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.9  | 55.5  | 83.3  |
| 63      | 35.6  | 29.1  | 43.7  |



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: 66.744 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampled :

WB-2-1

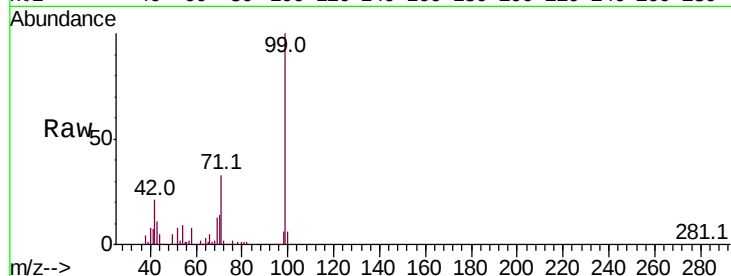
Tot Ion: 99 Resp: 778716

Ion Ratio Lower Upper

99 100

42 20.9 16.9 25.3

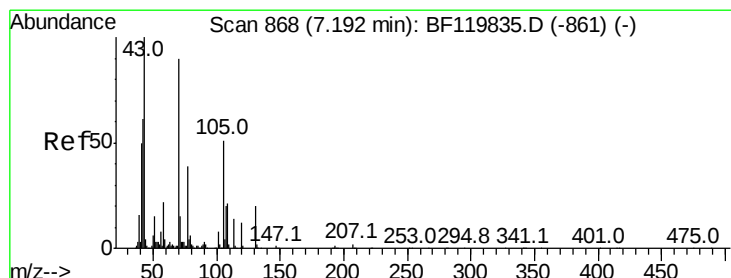
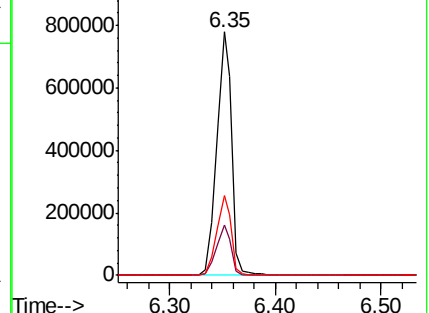
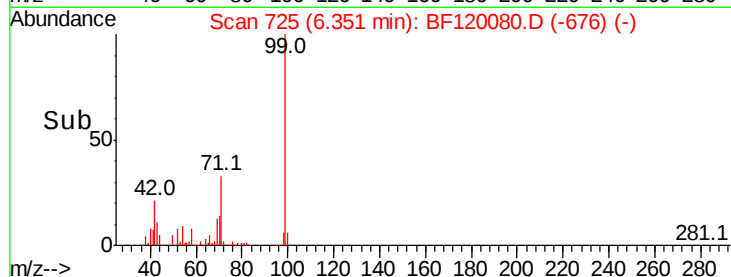
71 32.7 26.3 39.5



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: 8.971 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Tgt Ion: 70 Resp: 67303

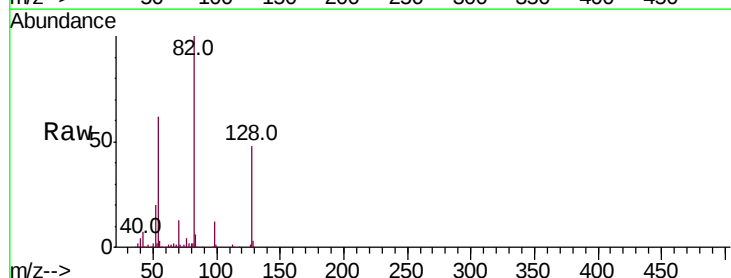
Ion Ratio Lower Upper

70 100

42 54.6 54.2 81.4

101 0.0 7.4 11.2#

130 2.2 17.8 26.6#

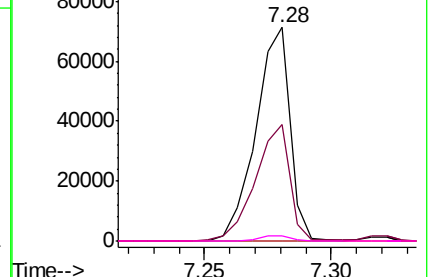
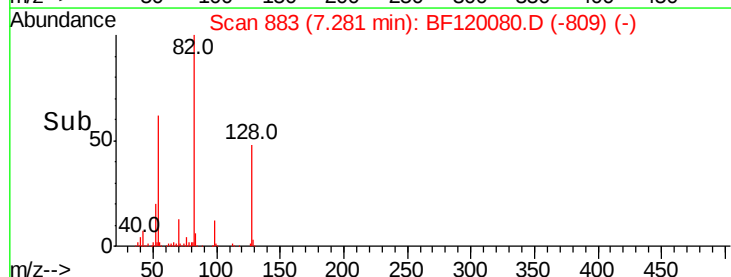


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

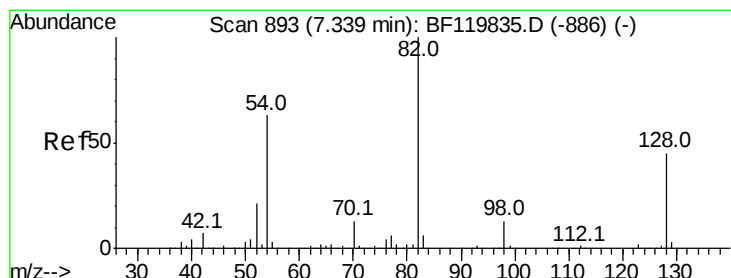
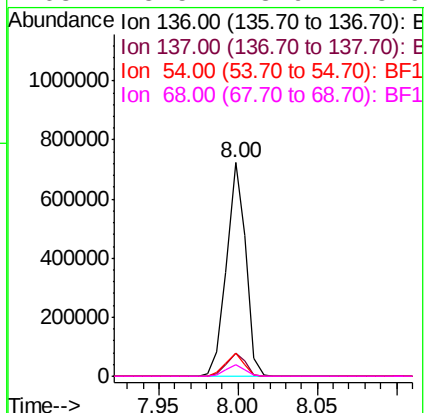
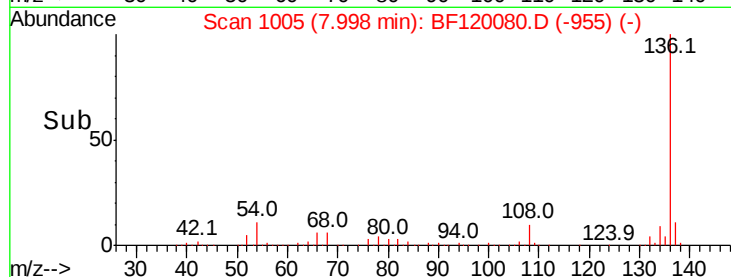
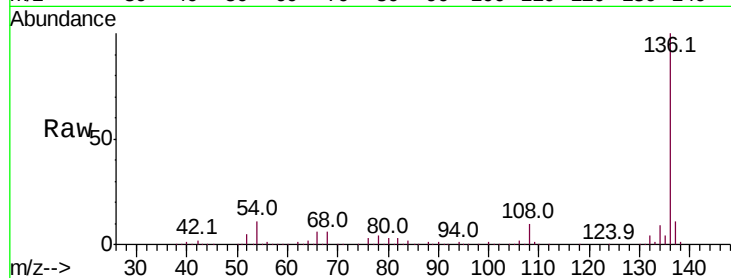




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

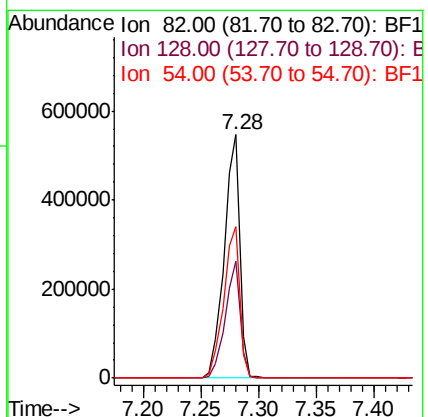
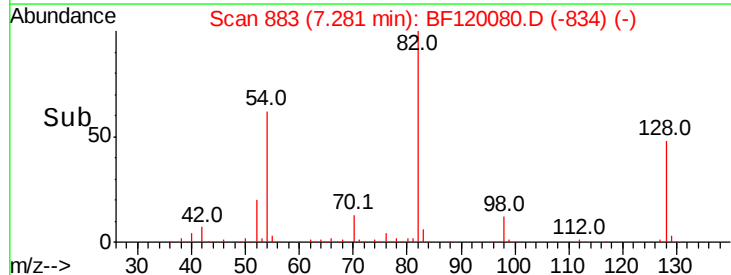
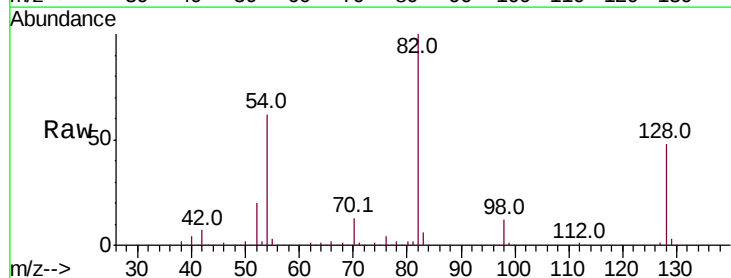
Instrument :  
BNA\_F  
ClientSampleId :  
WB-2-1

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 604314 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.7   | 13.1   |
| 54       | 10.7  | 8.5   | 12.7   |
| 68       | 5.5   | 3.9   | 5.9    |



#23  
Nitrobenzene-d5  
Concen: 43.789 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 511511 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 48.1  | 36.2  | 54.4   |
| 54       | 62.4  | 50.4  | 75.6   |





#25

Isophorone

Concen: 22.506 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.27 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleId :

WB-2-1

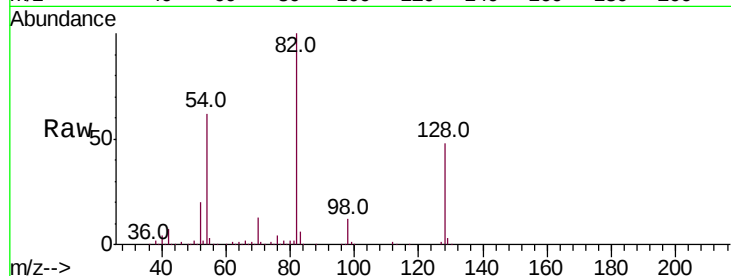
Tot Ion: 82 Resp: 506794

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

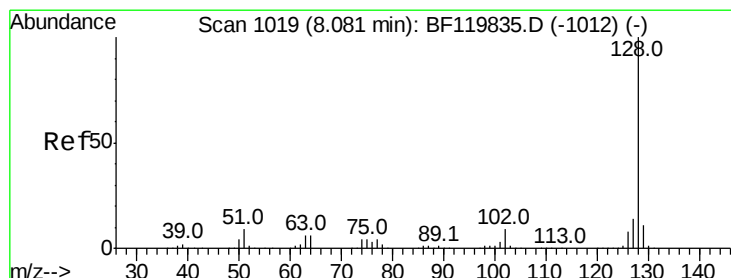
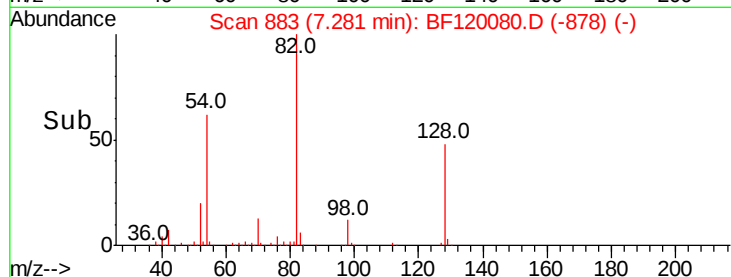
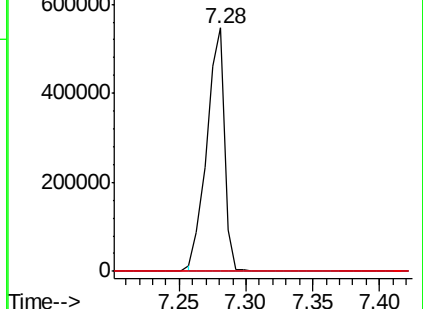
138 0.0 14.5 21.7#



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: 2.110 ng

RT: 8.02 min Scan# 1009

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

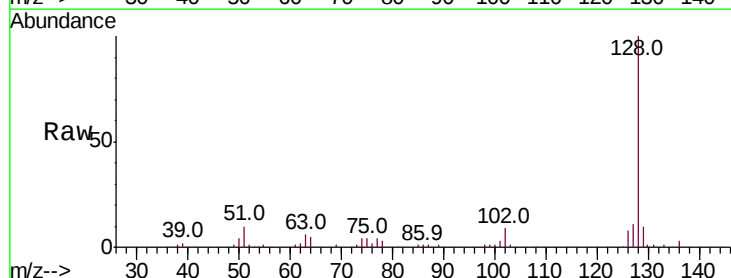
Tgt Ion: 128 Resp: 67097

Ion Ratio Lower Upper

128 100

129 10.5 9.0 13.6

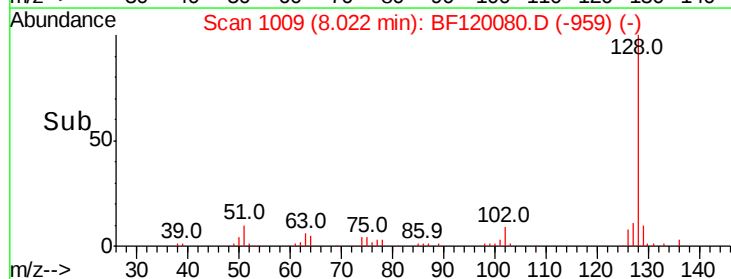
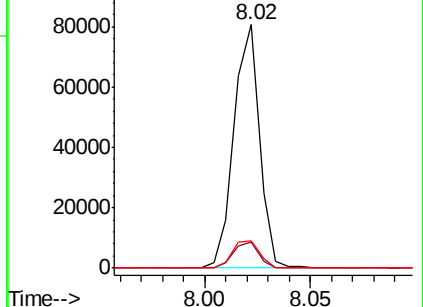
127 11.4 11.0 16.4

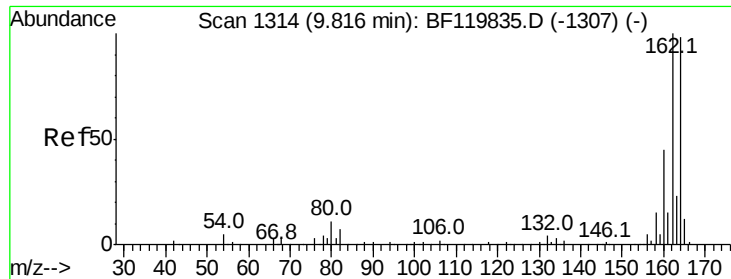


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

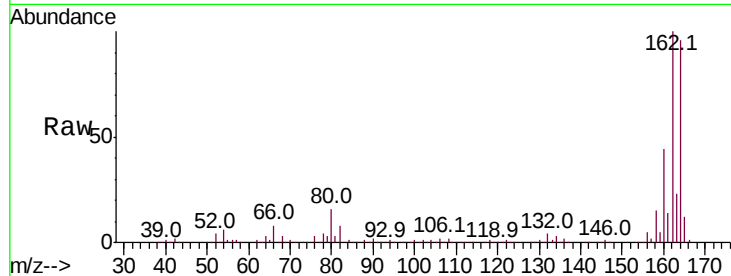




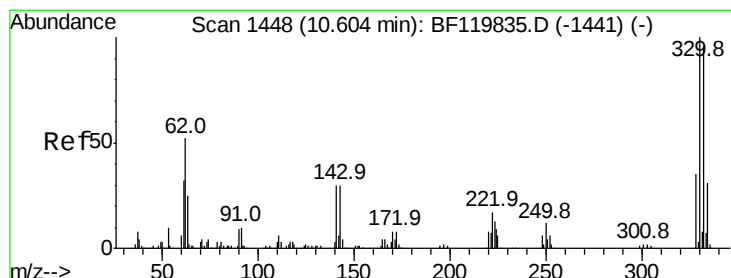
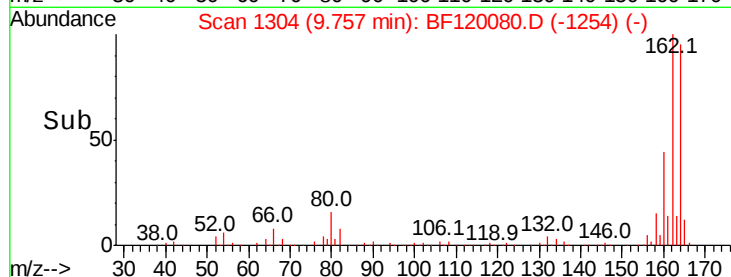
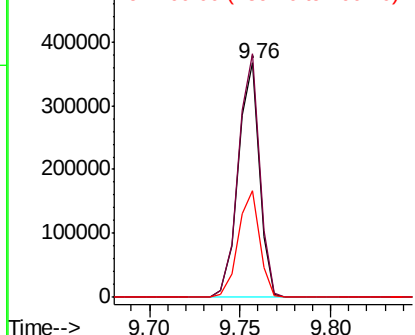
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Instrument :  
BNA\_F  
ClientSampleId :  
WB-2-1

Tot Ion:164 Resp: 299154  
Ion Ratio Lower Upper  
164 100  
162 103.9 81.9 122.9  
160 45.7 36.6 54.8

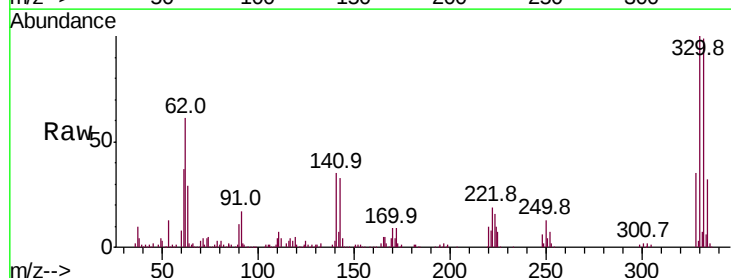


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

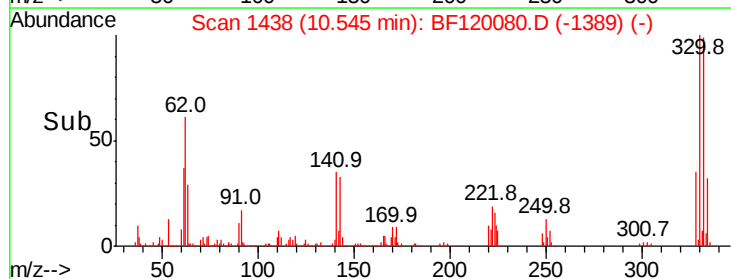
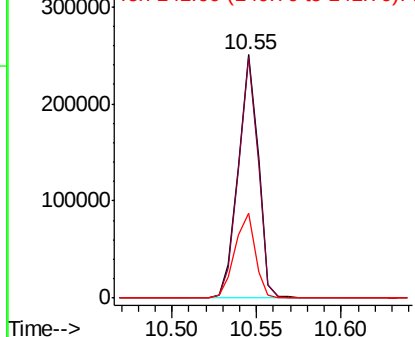


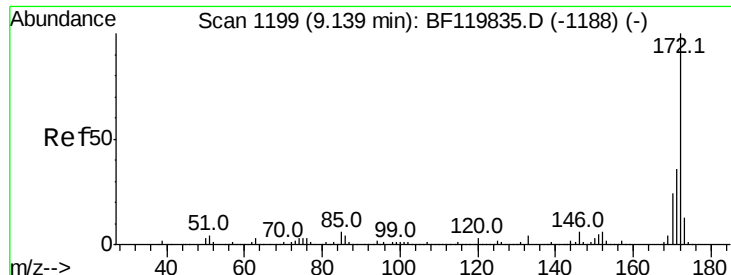
#42  
2,4,6-Tribromophenol  
Concen: 56.517 ng  
RT: 10.55 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Tgt Ion:330 Resp: 207002  
Ion Ratio Lower Upper  
330 100  
332 97.4 76.8 115.2  
141 36.0 25.1 37.7



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

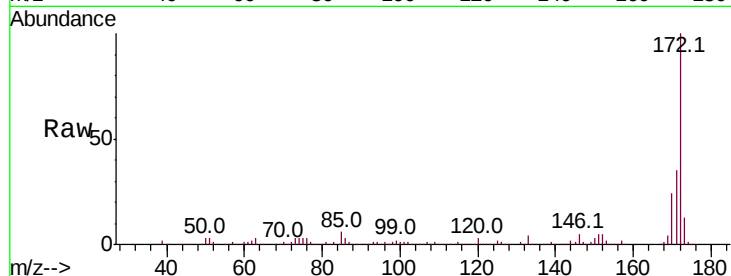




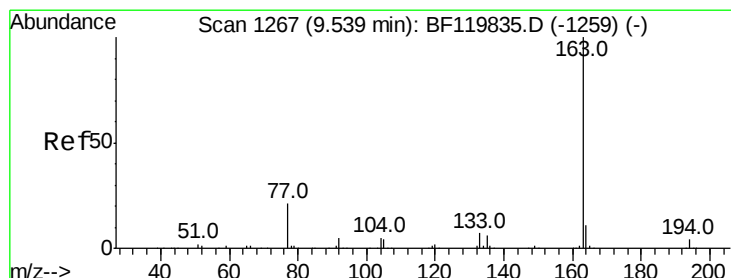
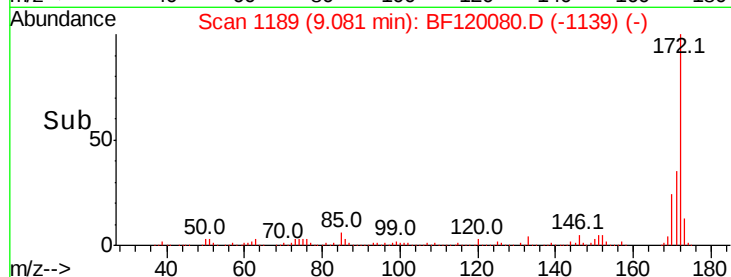
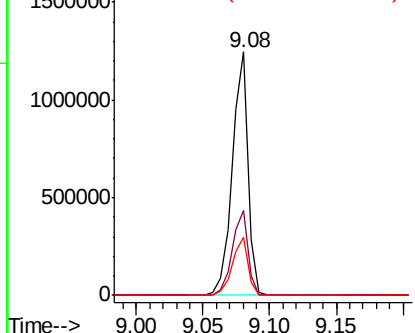
#45  
2-Fluorobiphenyl  
Concen: 49.362 ng  
RT: 9.08 min Scan# 1189  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Instrument :  
BNA\_F  
ClientSampleId :  
WB-2-1

Tot Ion:172 Resp: 1040074  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.9 43.3  
170 23.6 19.4 29.2

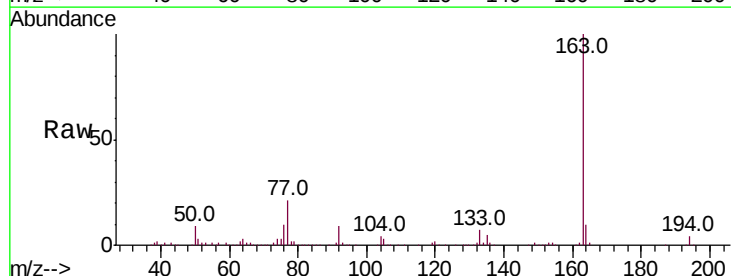


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

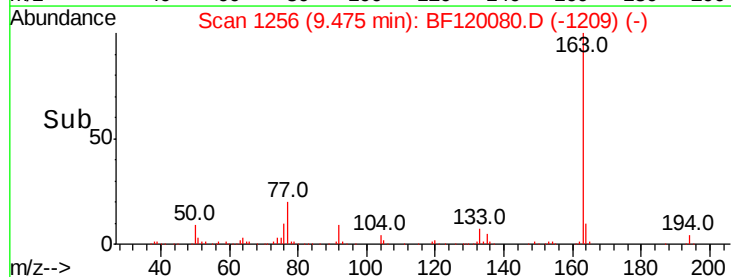
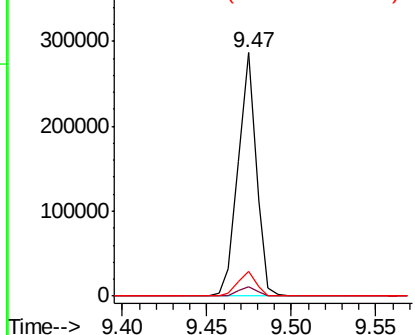


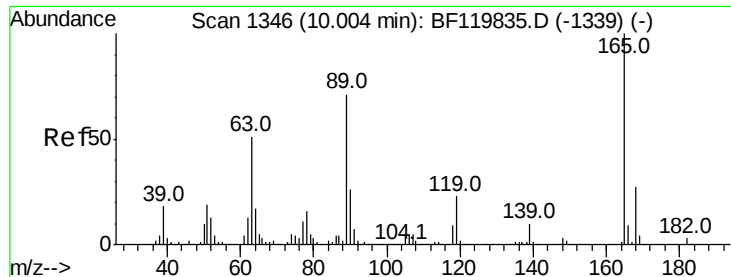
#50  
Dimethylphthalate  
Concen: 9.233 ng  
RT: 9.47 min Scan# 1256  
Delta R.T. -0.02 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Tgt Ion:163 Resp: 213647  
Ion Ratio Lower Upper  
163 100  
194 3.7 3.0 4.4  
164 10.1 8.4 12.6



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

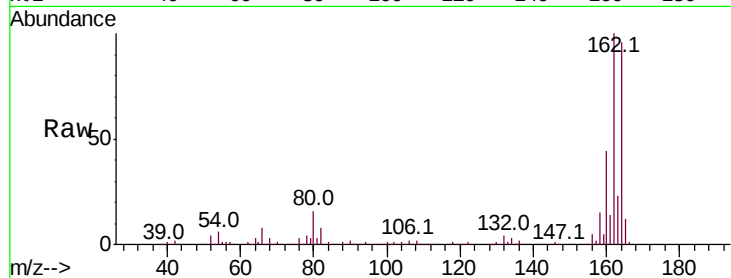




#57  
 2,4-Dinitrotoluene  
 Concen: 5.810 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.21 min  
 Lab File: BF120080.D  
 Acq: 20 Apr 2020 16:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WB-2-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 40.8  | 61.2# |
| 89      | 1.4   | 56.9  | 85.3# |
| 182     | 0.0   | 2.0   | 3.0#  |

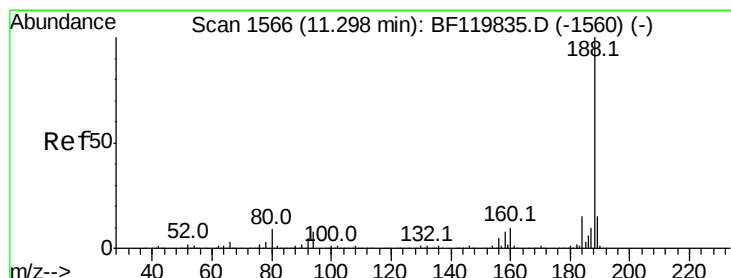
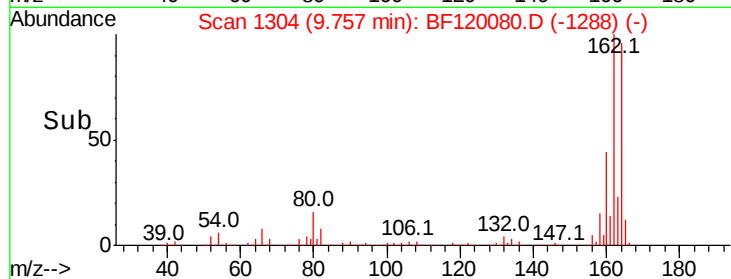
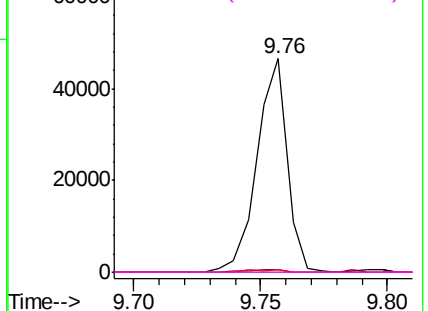


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

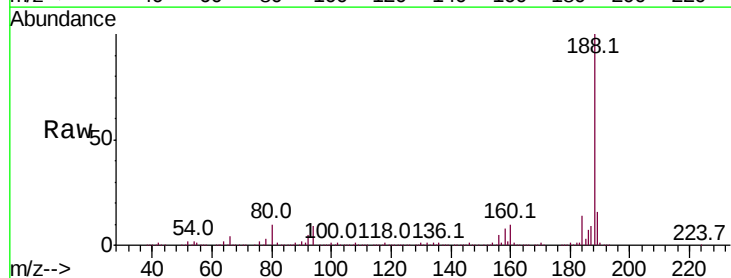
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1556  
 Delta R.T. -0.01 min  
 Lab File: BF120080.D  
 Acq: 20 Apr 2020 16:23

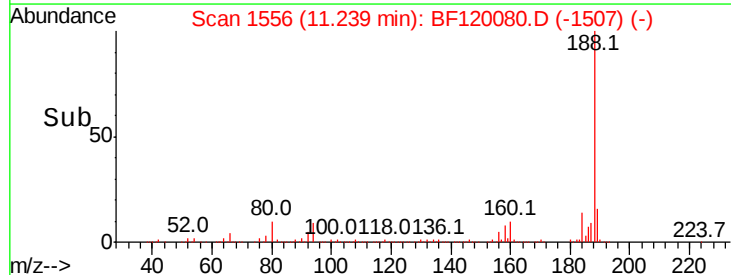
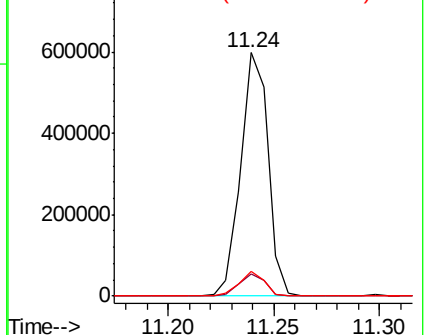
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.1   | 6.7   | 10.1  |
| 80      | 10.1  | 7.4   | 11.2  |

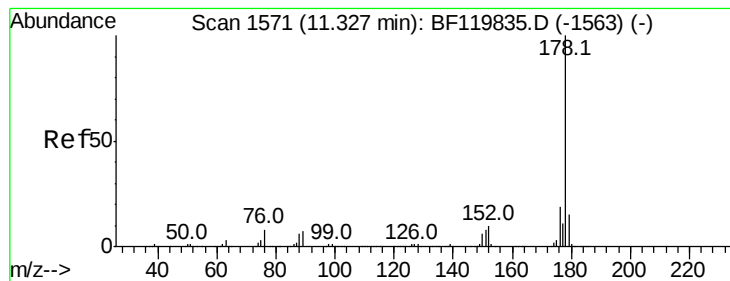


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#71

Phenanthrene

Concen: 2.417 ng

RT: 11.26 min Scan# 1560

Delta R.T. -0.02 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleId :

WB-2-1

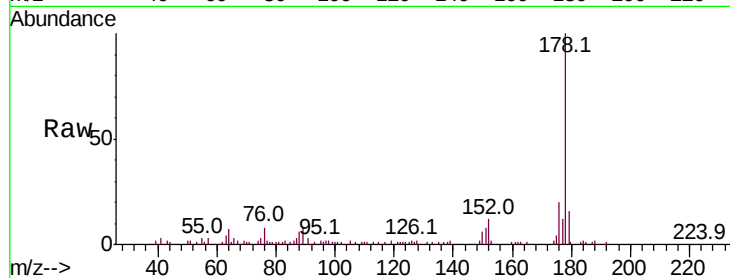
Tot Ion:178 Resp: 68800

Ion Ratio Lower Upper

178 100

176 19.5 15.1 22.7

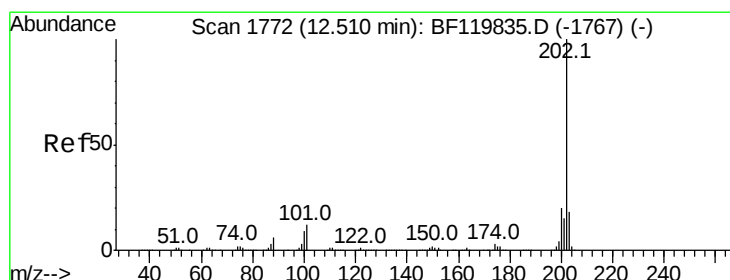
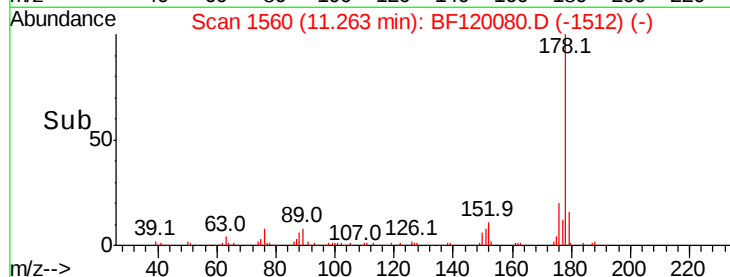
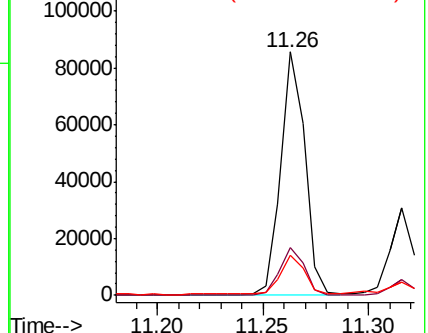
179 16.2 12.2 18.4



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



#75

Fluoranthene

Concen: 2.817 ng

RT: 12.46 min Scan# 1763

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

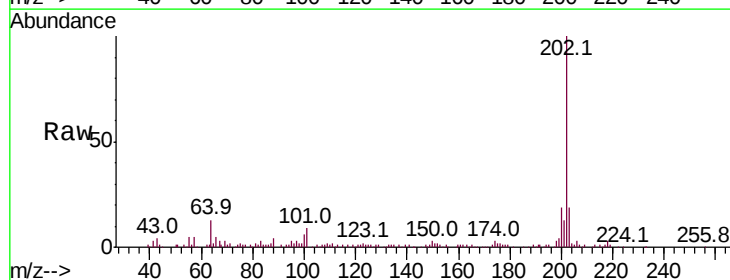
Tgt Ion:202 Resp: 86529

Ion Ratio Lower Upper

202 100

101 9.0 0.0 32.3

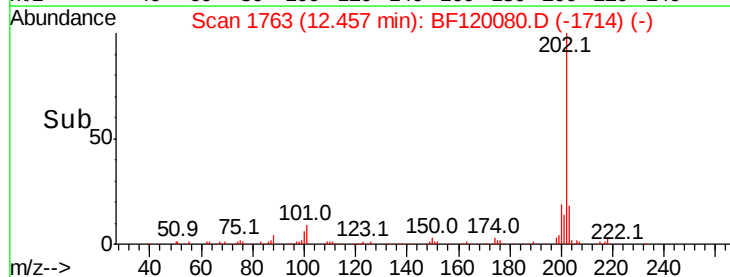
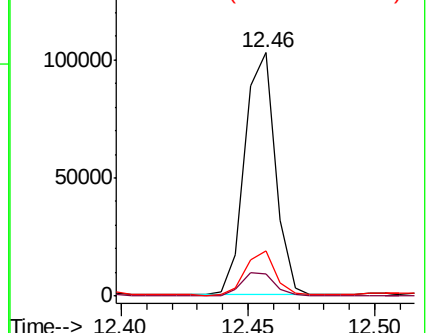
203 18.7 0.0 37.6

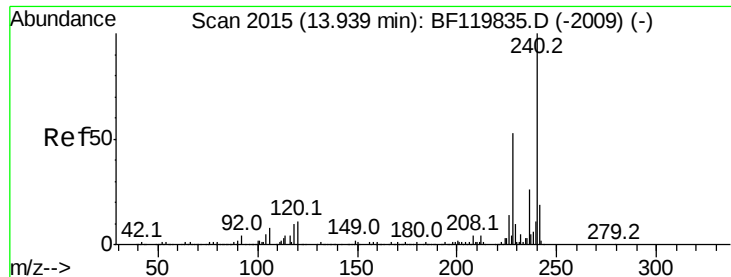


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleID :

WB-2-1

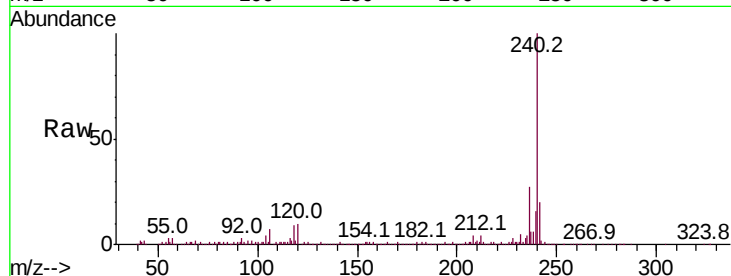
Tot Ion:240 Resp: 370077

Ion Ratio Lower Upper

240 100

120 9.8 9.0 13.6

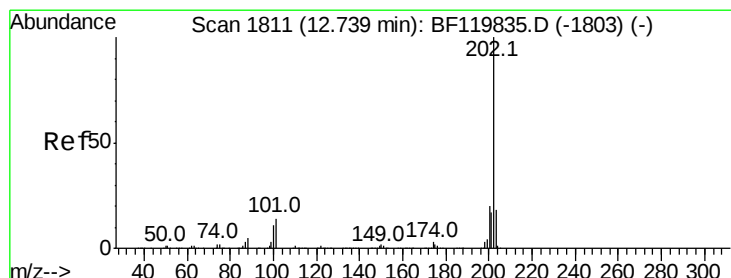
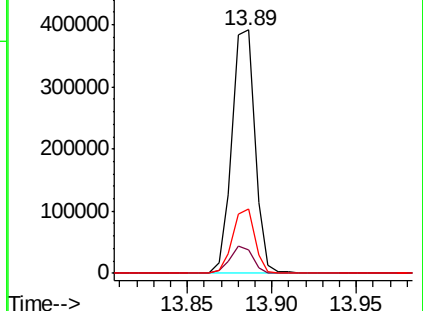
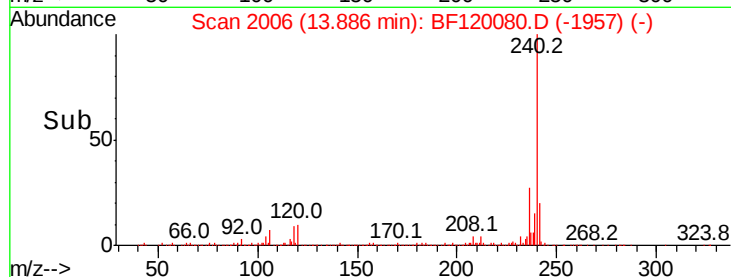
236 26.6 20.7 31.1



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



#78

Pyrene

Concen: 3.154 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.02 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

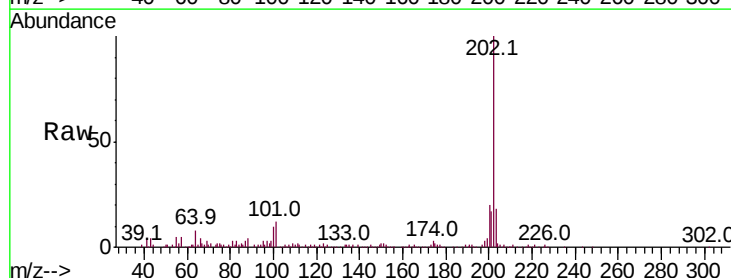
Tgt Ion:202 Resp: 98410

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.2

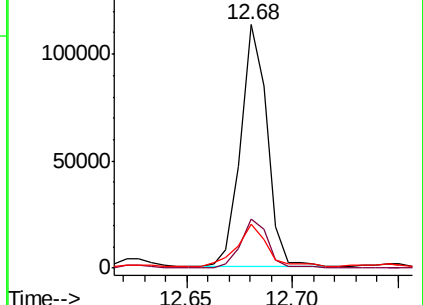
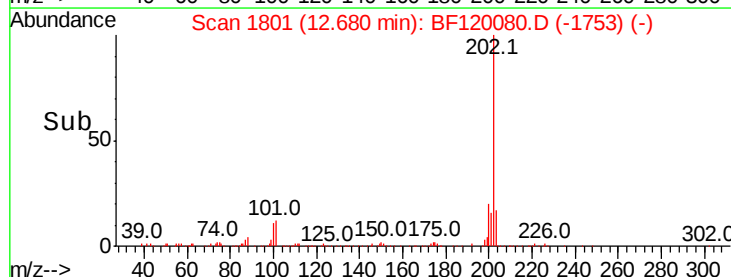
203 17.9 14.1 21.1

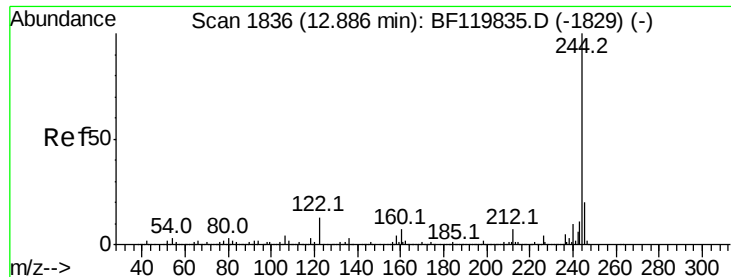


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 46.801 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleId :

WB-2-1

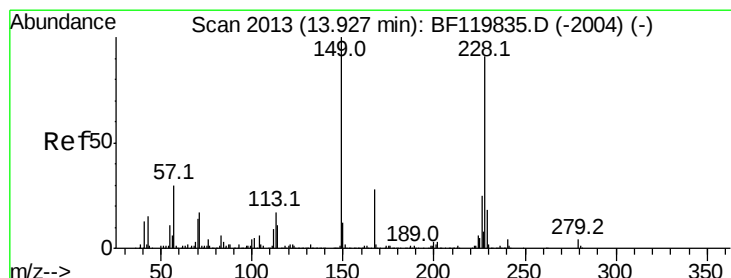
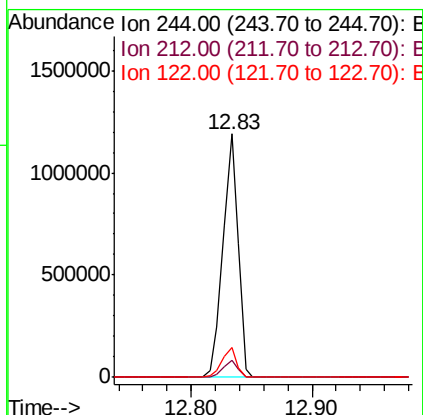
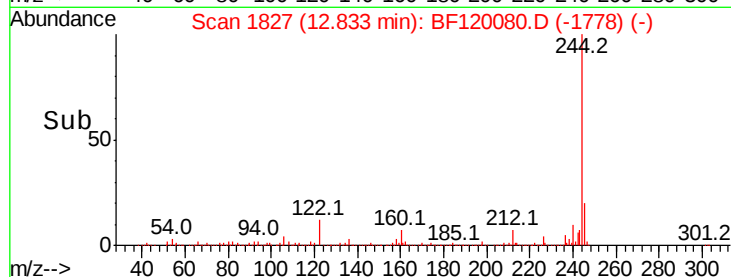
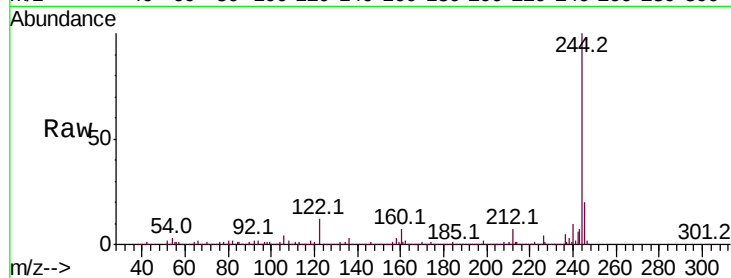
Tot Ion:244 Resp: 1029319

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 12.0 10.3 15.5



#81

Benzo(a)anthracene

Concen: 2.301 ng

RT: 13.87 min Scan# 2004

Delta R.T. -0.01 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

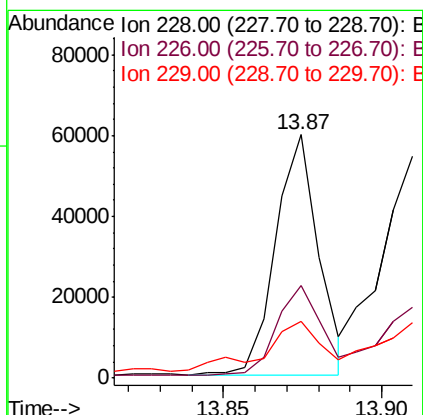
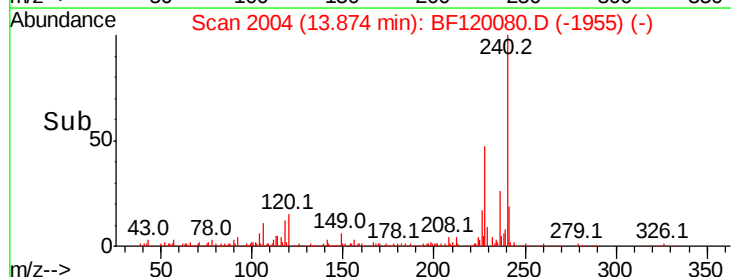
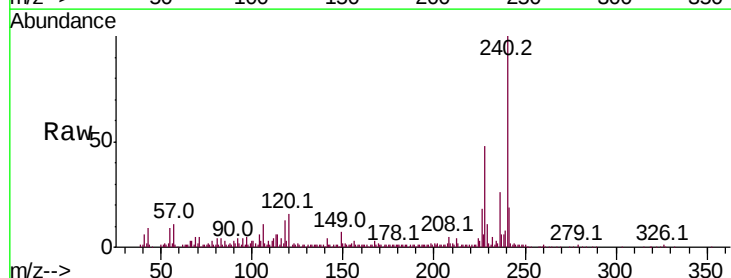
Tgt Ion:228 Resp: 56014

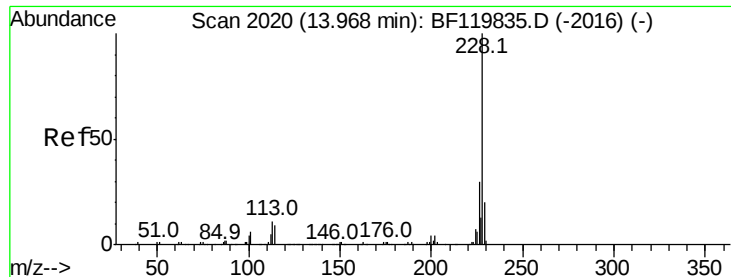
Ion Ratio Lower Upper

228 100

226 38.1 21.9 32.9#

229 23.2 15.9 23.9





#83

Chrysene

Concen: 2.256 ng

RT: 13.91 min Scan# 2010

Delta R.T. -0.02 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleId :

WB-2-1

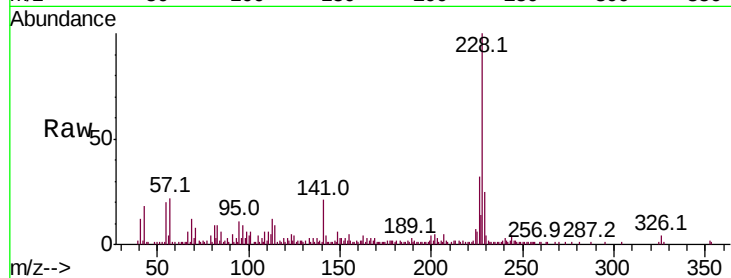
Tot Ion:228 Resp: 55805

Ion Ratio Lower Upper

228 100

226 31.9 24.2 36.2

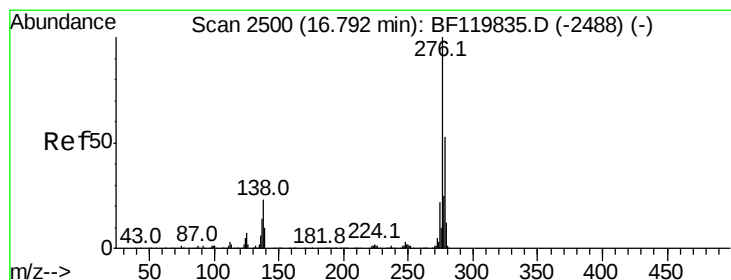
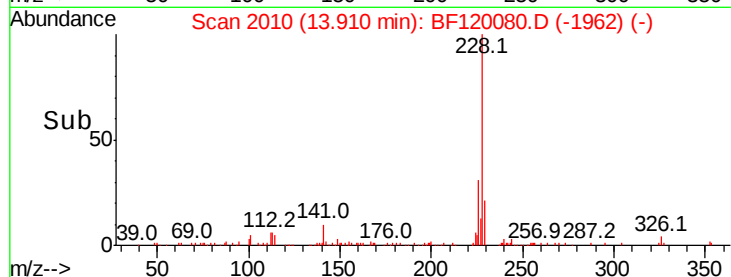
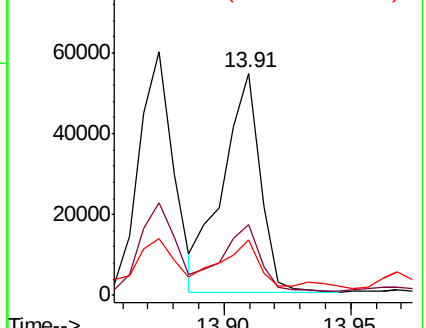
229 24.7 15.9 23.9#



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: 2.047 ng

RT: 16.69 min Scan# 2482

Delta R.T. -0.04 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

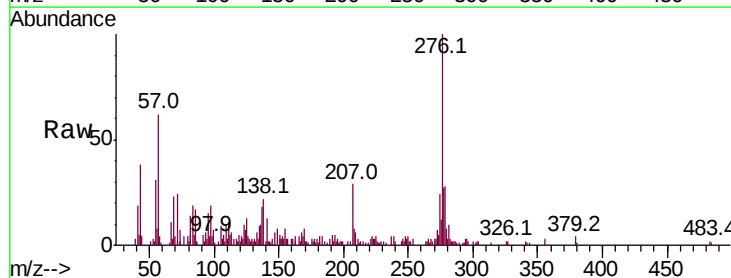
Tgt Ion:276 Resp: 44633

Ion Ratio Lower Upper

276 100

138 21.1 18.0 27.0

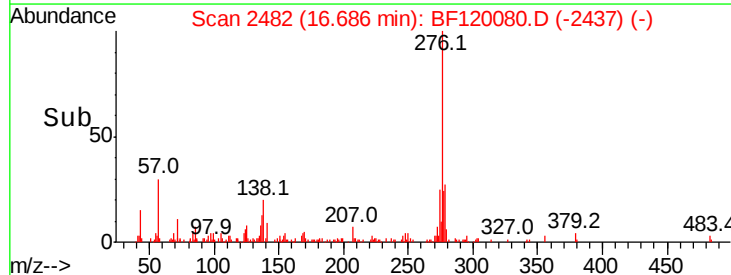
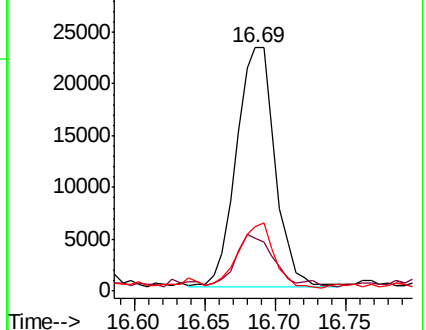
277 28.3 20.1 30.1

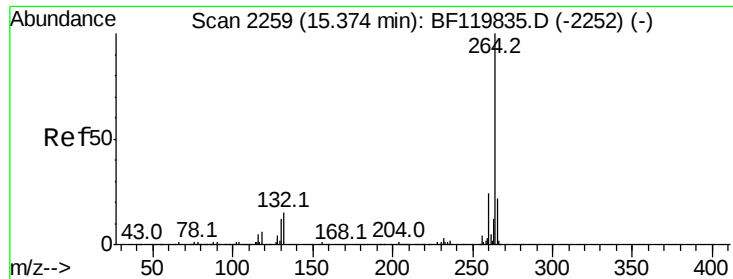


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



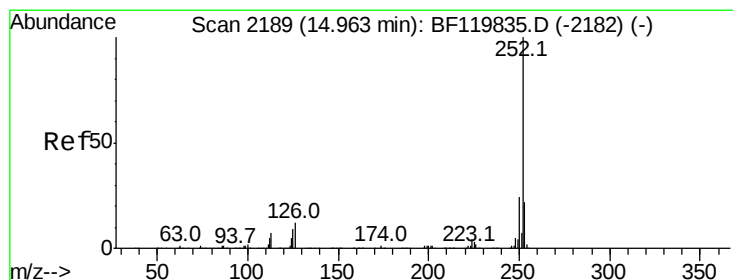
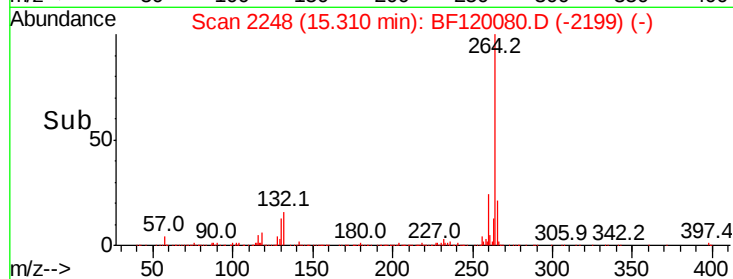
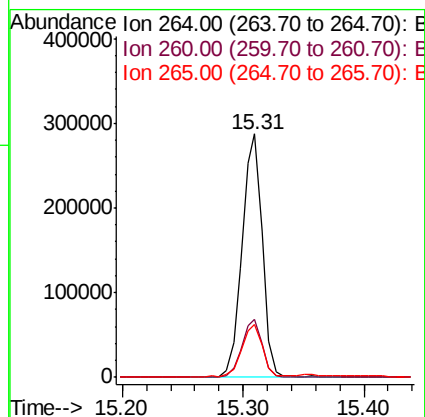
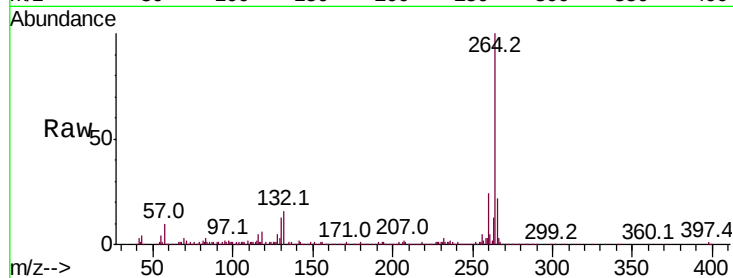


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.31 min Scan# 2248  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Instrument :  
BNA\_F  
ClientSampleId :  
WB-2-1

Tot Ion:264 Resp: 334776  

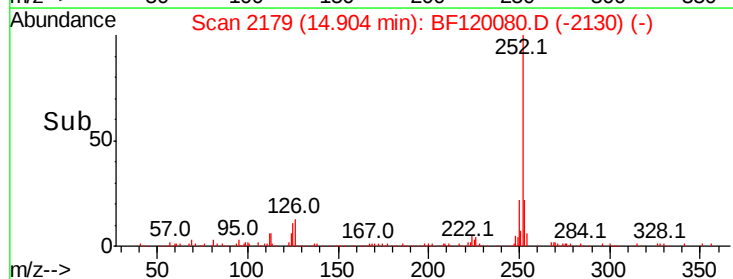
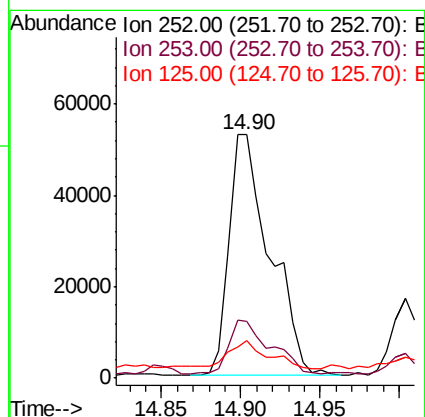
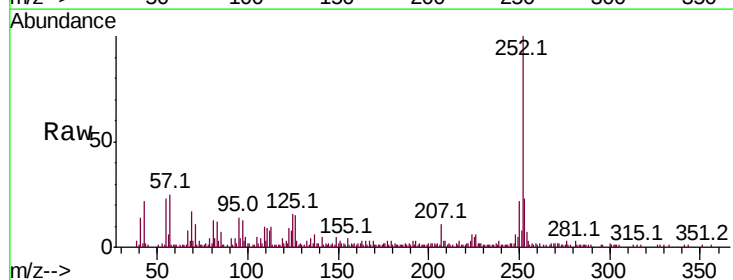
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.3  | 28.9  |
| 265 | 21.6  | 17.6  | 26.4  |

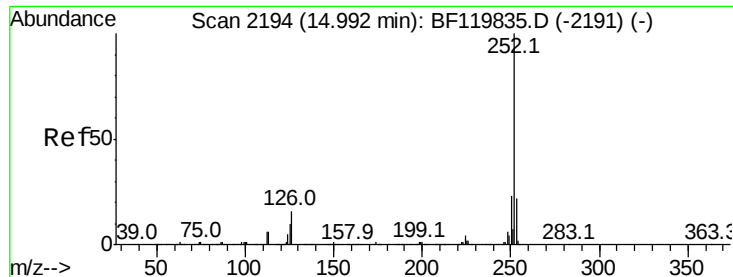


#88  
Benzo(b)fluoranthene  
Concen: 3.959 ng  
RT: 14.90 min Scan# 2179  
Delta R.T. -0.01 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

Tgt Ion:252 Resp: 95346  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.3  | 17.7  | 26.5  |
| 125 | 15.6  | 7.4   | 11.2# |

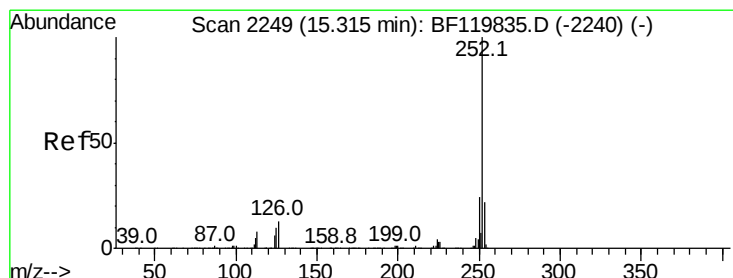
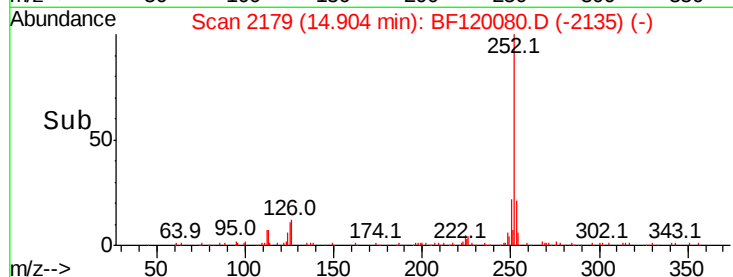
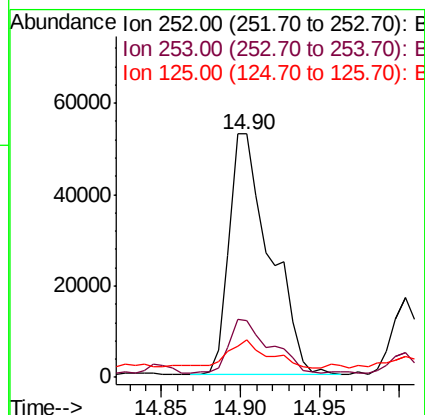
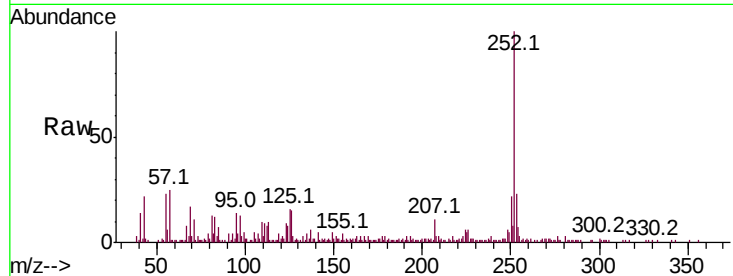




#89  
Benzo(k)fluoranthene  
Concen: 4.589 ng  
RT: 14.90 min Scan# 2179  
Delta R.T. -0.04 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

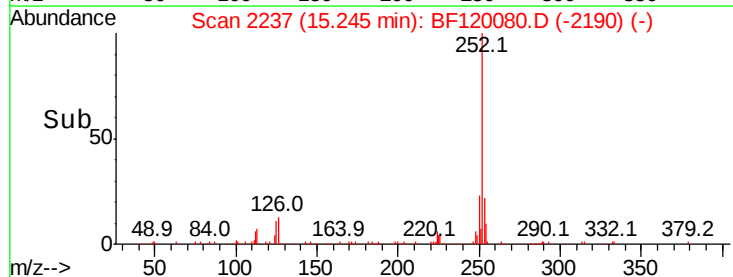
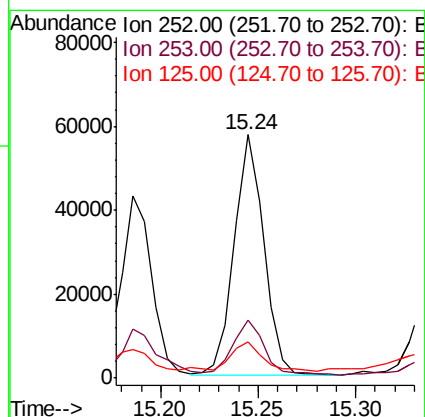
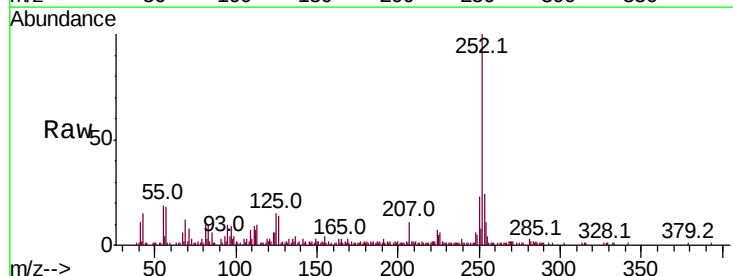
Instrument :  
BNA\_F  
ClientSampleId :  
WB-2-1

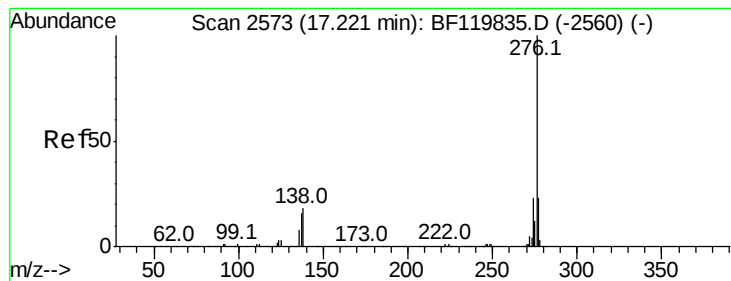
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.8  | 26.8  |
| 125     | 15.6  | 7.7   | 11.5  |



#90  
Benzo(a)pyrene  
Concen: 2.986 ng  
RT: 15.24 min Scan# 2237  
Delta R.T. -0.02 min  
Lab File: BF120080.D  
Acq: 20 Apr 2020 16:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.4  | 26.2  |
| 125     | 14.9  | 8.3   | 12.5  |





#92

Benzo(a,h,i)perylene

Concen: 2.520 ng

RT: 17.10 min Scan# 2553

Delta R.T. -0.04 min

Lab File: BF120080.D

Acq: 20 Apr 2020 16:23

Instrument :

BNA\_F

ClientSampleId :

WB-2-1

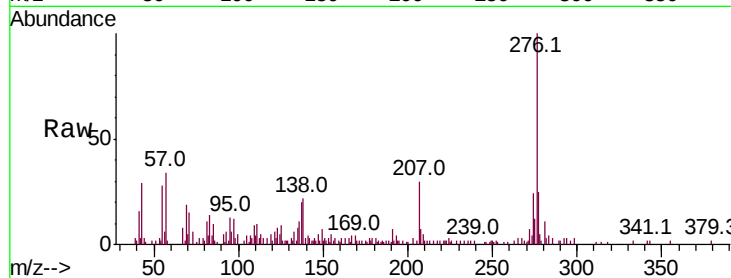
Tot Ion:276 Resp: 44617

Ion Ratio Lower Upper

276 100

277 25.0 18.5 27.7

138 21.6 14.6 22.0



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

