

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013120\  
 Data File : BF118775.D  
 Acq On : 31 Jan 2020 12:11  
 Operator : CG/JU  
 Sample : L1318-13  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 31 22:02:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 27 14:24:10 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.83  | 152  | 300750   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8        | 8.11  | 136  | 1151754  | 20.00 | ng    | -0.04    |
| 39) Acenaphthene-d10      | 9.86  | 164  | 653097   | 20.00 | ng    | -0.04    |
| 64) Phenanthrene-d10      | 11.35 | 188  | 1237485  | 20.00 | ng    | -0.04    |
| 76) Chrysene-d12          | 13.99 | 240  | 798585   | 20.00 | ng    | -0.04    |
| 87) Perylene-d12          | 15.43 | 264  | 704690   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 1489190  | 91.96 | ng    | -0.03    |
| 7) Phenol-d6                | 6.46  | 99   | 1852256  | 88.01 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 1231737  | 59.82 | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol    | 10.65 | 330  | 708239   | 93.76 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 2278600  | 57.34 | ng    | -0.04    |
| 79) Terphenyl-d14           | 12.93 | 244  | 2611527  | 71.33 | ng    | -0.03    |

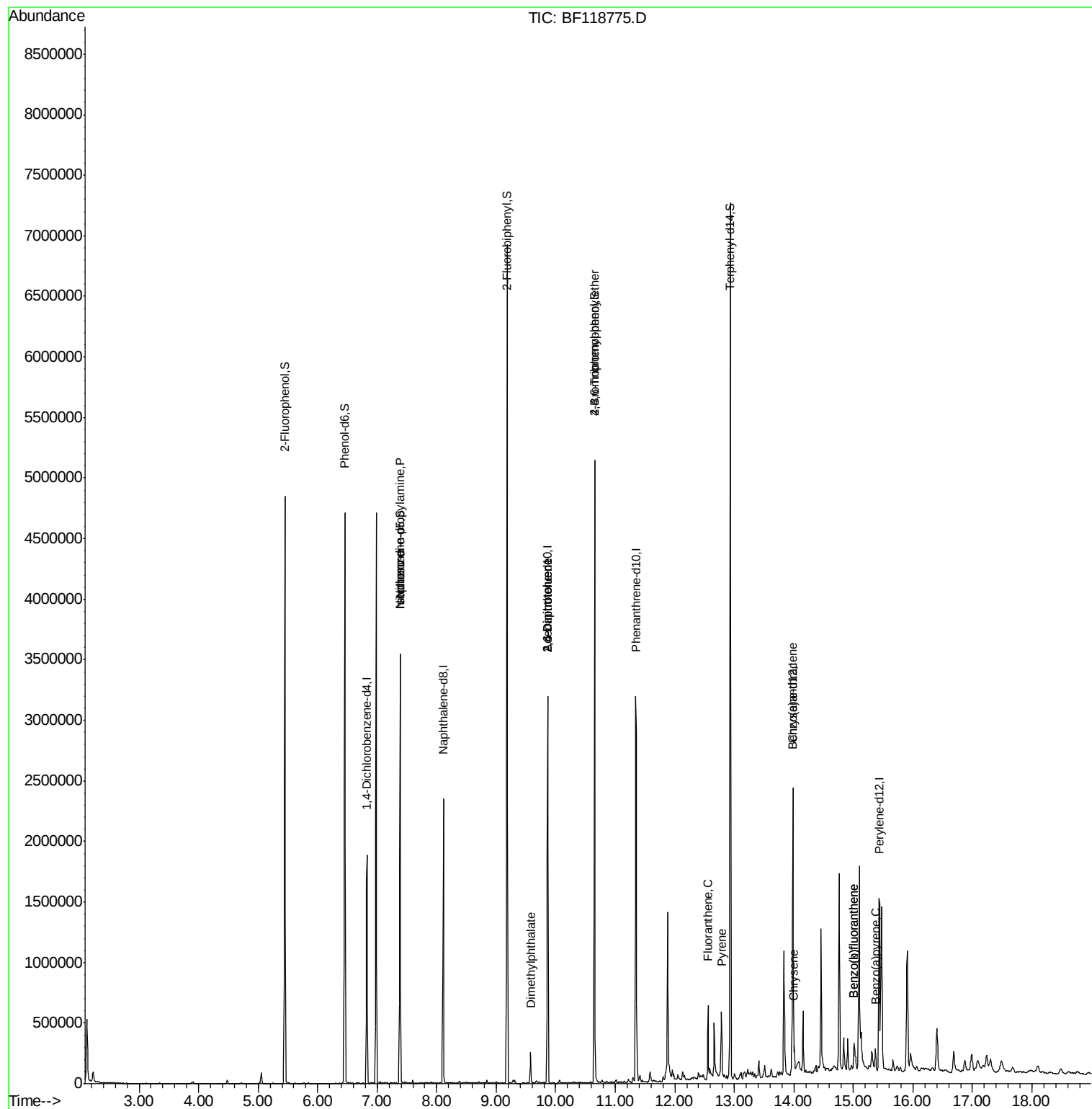
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 168420   | 11.851 | ng    | # 75   |
| 25) Isophorone                 | 7.39  | 82   | 1213817  | 32.319 | ng    | # 63   |
| 50) Dimethylphthalate          | 9.57  | 163  | 94969    | 2.232  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.86  | 165  | 85767    | 9.001  | ng    | # 29   |
| 57) 2,4-Dinitrotoluene         | 9.86  | 165  | 85767    | 7.140  | ng    | # 30   |
| 67) 4-Bromophenyl-phenylether  | 10.65 | 248  | 45475    | 2.974  | ng    | # 1    |
| 75) Fluoranthene               | 12.56 | 202  | 225108   | 3.575  | ng    | 96     |
| 78) Pyrene                     | 12.79 | 202  | 215521   | 3.975  | ng    | 97     |
| 81) Benzo(a)anthracene         | 13.97 | 228  | 104428   | 2.174  | ng    | 99     |
| 83) Chrysene                   | 14.01 | 228  | 104953   | 2.280  | ng    | 98     |
| 88) Benzo(b)fluoranthene       | 15.02 | 252  | 166206   | 3.752  | ng    | 98     |
| 89) Benzo(k)fluoranthene       | 15.02 | 252  | 166206   | 4.050  | ng    | 99     |
| 90) Benzo(a)pyrene             | 15.37 | 252  | 79478    | 2.080  | ng    | # 96   |

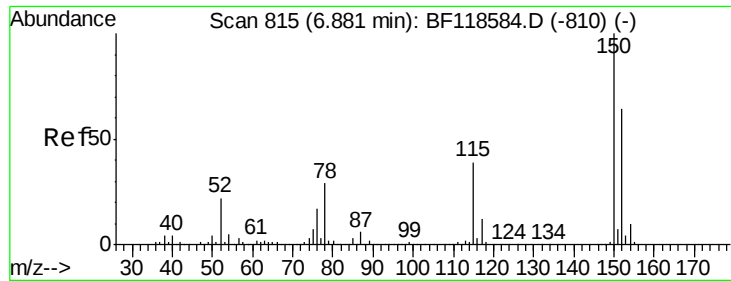
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013120\  
Data File : BF118775.D  
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Sample : L1318-13  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 31 22:02:39 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 27 14:24:10 2020  
Response via : Initial Calibration

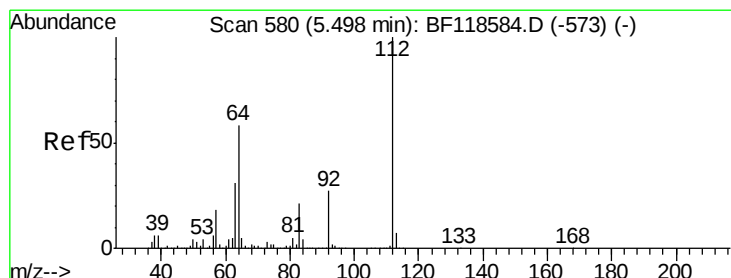
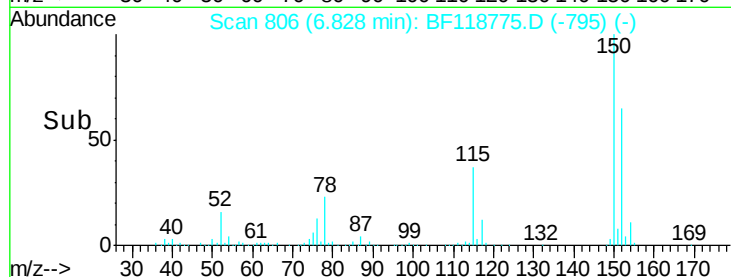
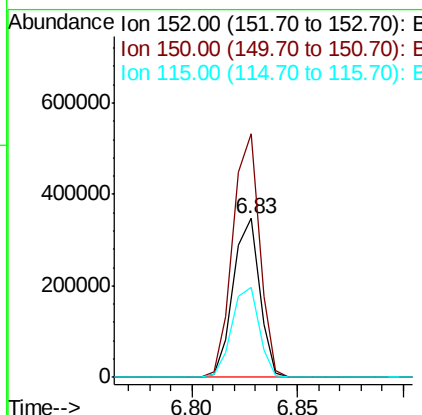
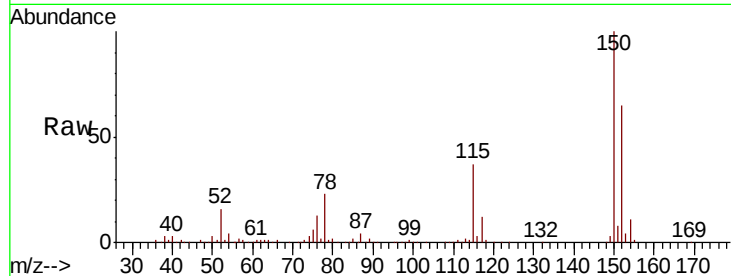




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.83 min Scan# 806  
 Delta R.T. -0.04 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

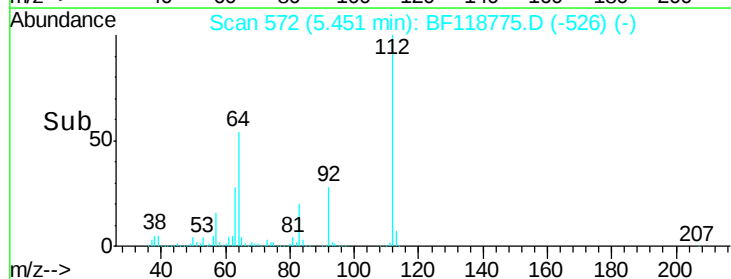
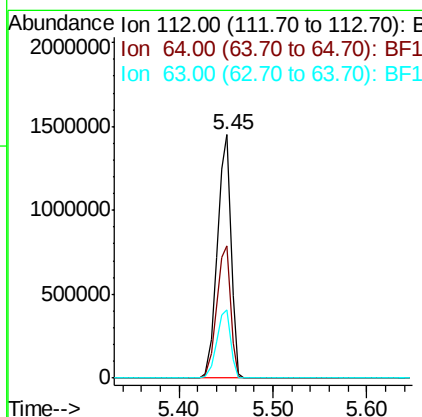
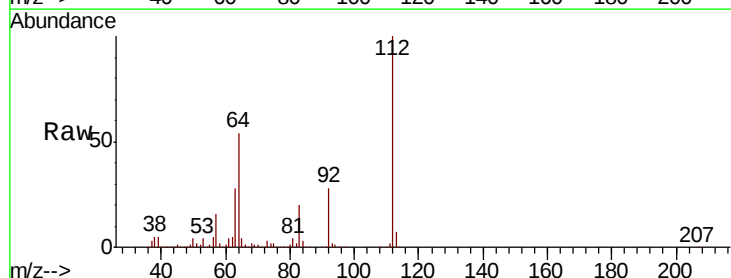
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 300750  
 Ion Ratio Lower Upper  
 152 100  
 150 153.5 123.7 185.5  
 115 56.8 45.1 67.7



#5  
 2-Fluorophenol  
 Concen: 91.964 ng  
 RT: 5.45 min Scan# 572  
 Delta R.T. -0.03 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

Tgt Ion:112 Resp: 1489190  
 Ion Ratio Lower Upper  
 112 100  
 64 54.3 42.4 63.6  
 63 28.2 21.7 32.5





#7

Phenol-d6

Concen: 88.005 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.04 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

Instrument :

BNA\_F

ClientSampleId :

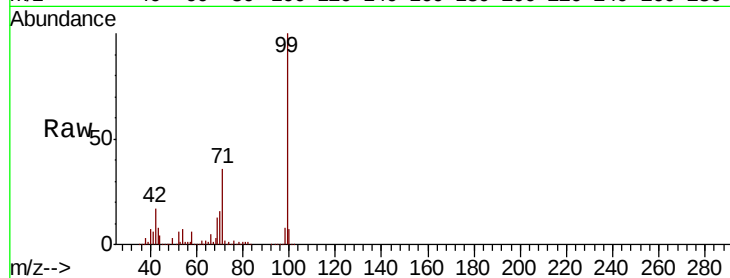
Tot Ion: 99 Resp: 1852256

Ion Ratio Lower Upper

99 100

42 16.8 13.1 19.7

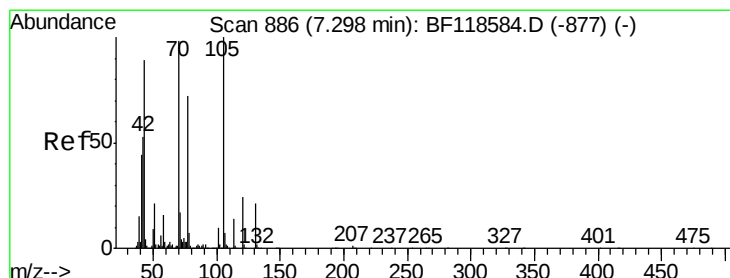
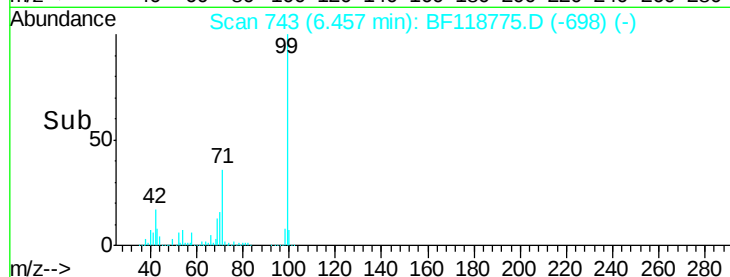
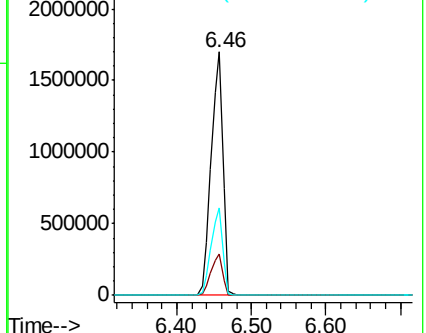
71 36.0 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.851 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.11 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

Tgt Ion: 70 Resp: 168420

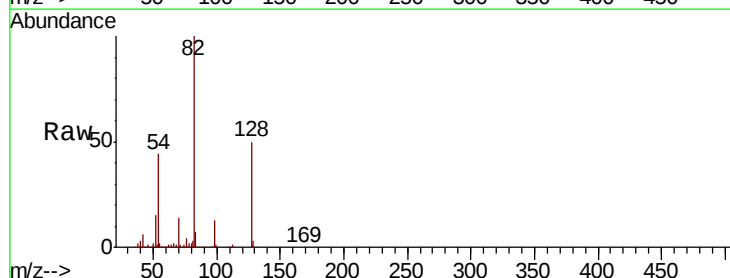
Ion Ratio Lower Upper

70 100

42 40.3 41.6 62.4#

101 0.0 7.9 11.9#

130 2.3 19.0 28.6#

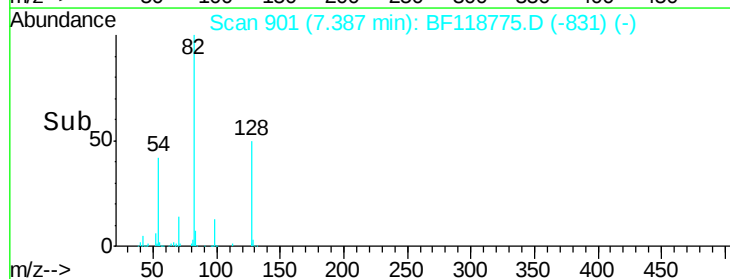
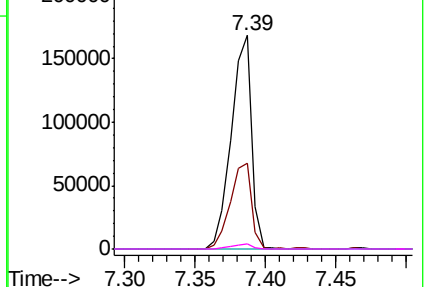


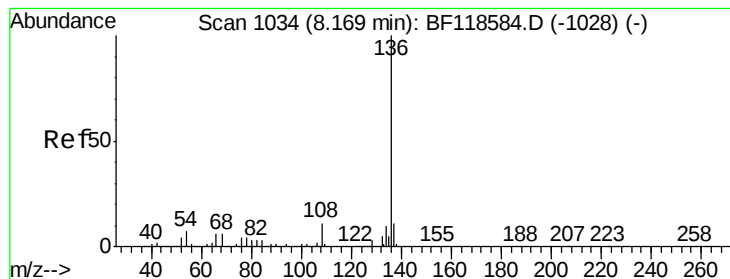
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 8.11 min Scan# 1024

Delta R.T. -0.04 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 1151754

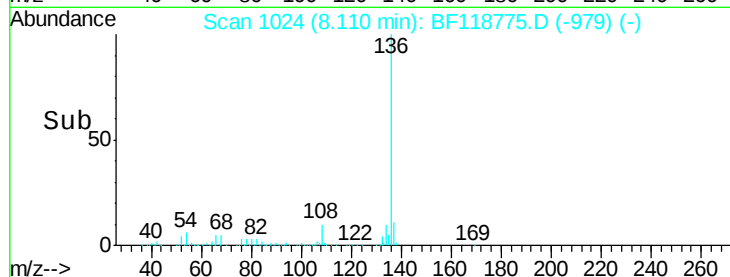
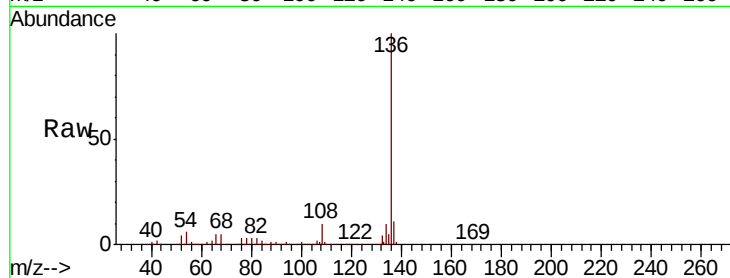
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 6.1 5.1 7.7

68 5.4 4.3 6.5

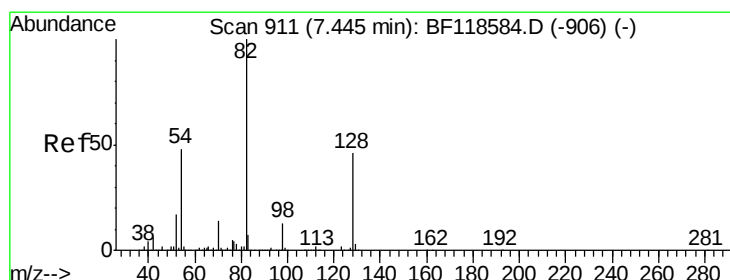
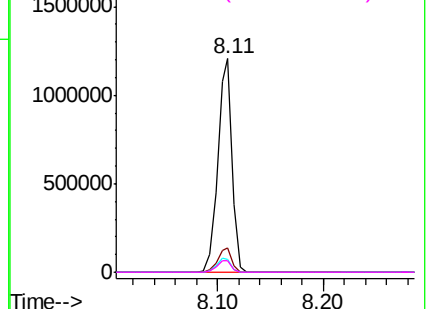


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 59.818 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.04 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

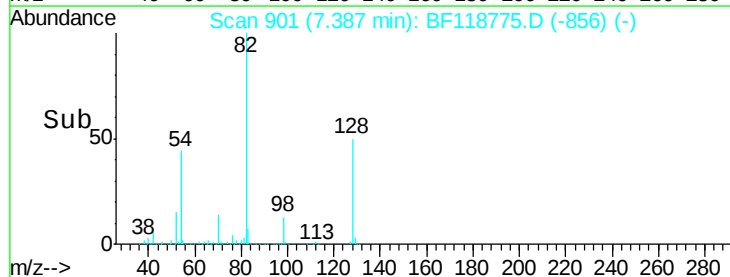
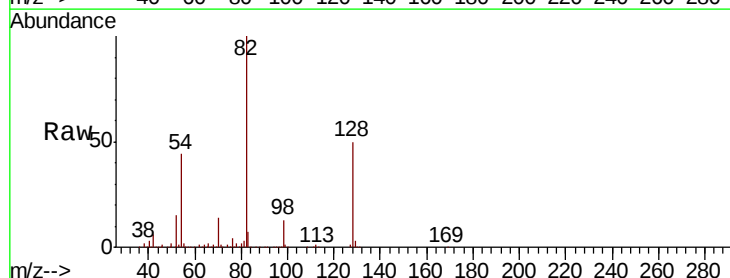
Tgt Ion: 82 Resp: 1231737

Ion Ratio Lower Upper

82 100

128 49.8 38.2 57.2

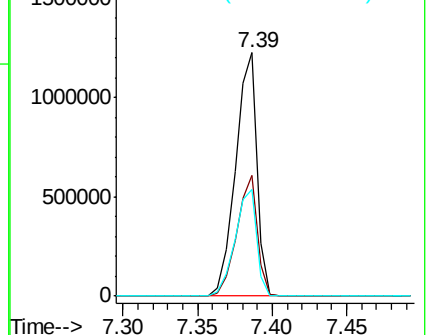
54 43.9 36.1 54.1



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 32.319 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.29 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

Instrument :

BNA\_F

ClientSampleId :

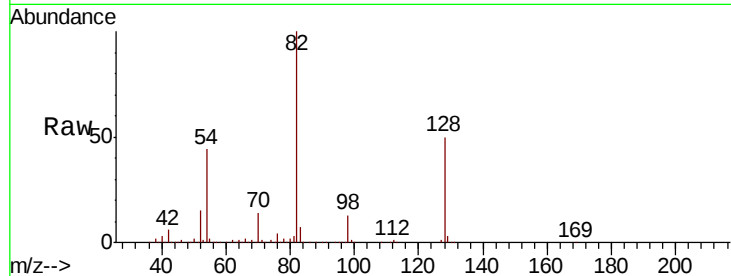
Tot Ion: 82 Resp: 1213817

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

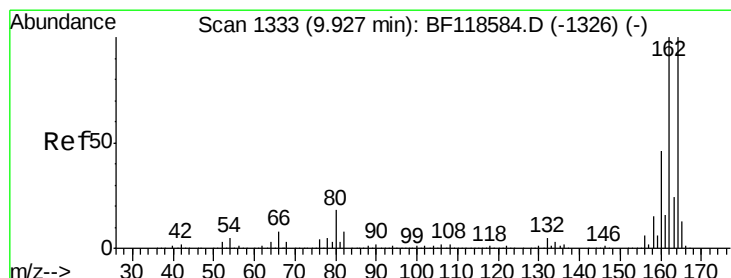
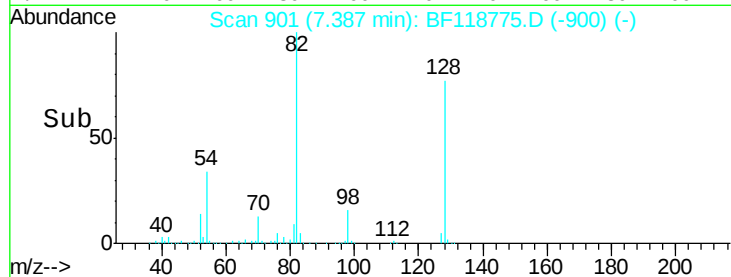
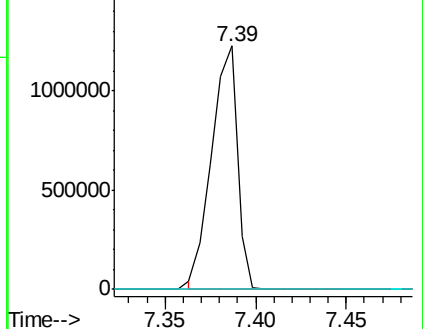
138 0.0 15.8 23.8#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1322

Delta R.T. -0.04 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

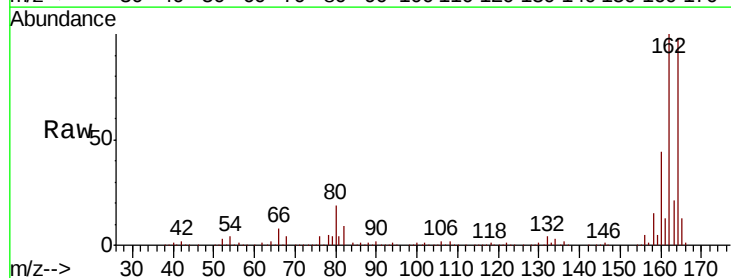
Tgt Ion:164 Resp: 653097

Ion Ratio Lower Upper

164 100

162 102.2 80.8 121.2

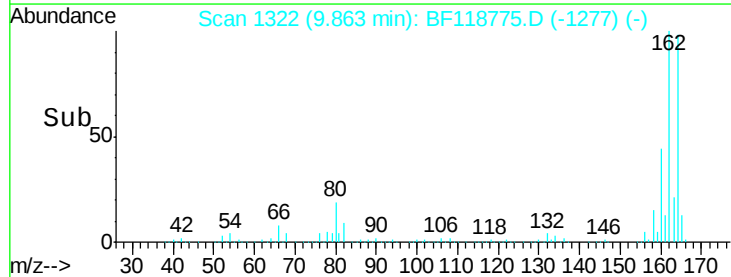
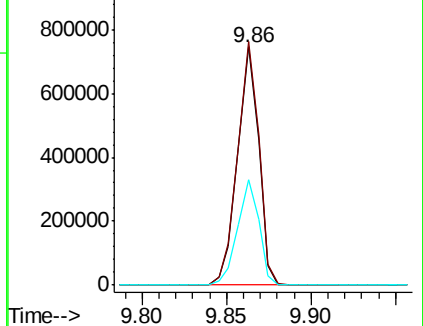
160 44.5 35.4 53.0

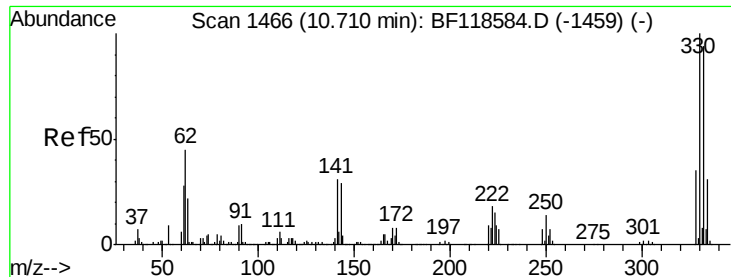


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

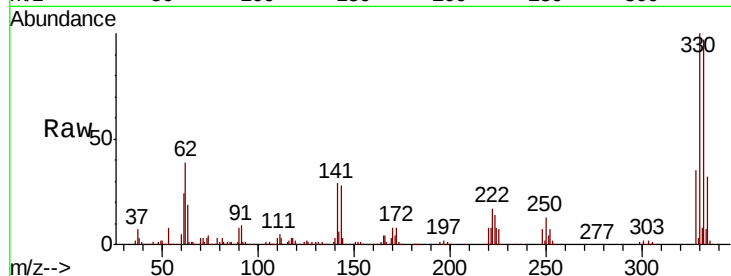




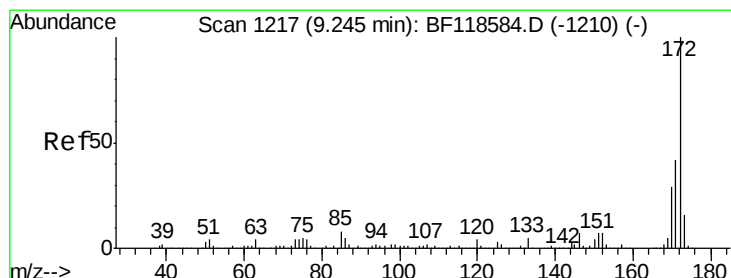
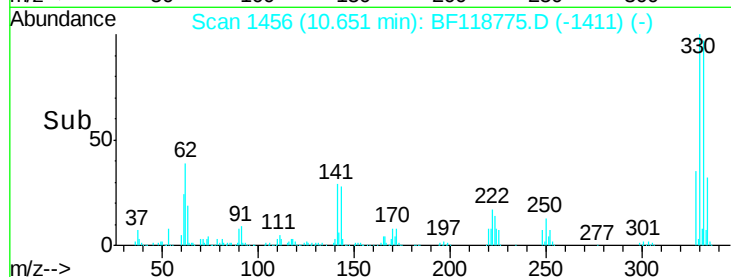
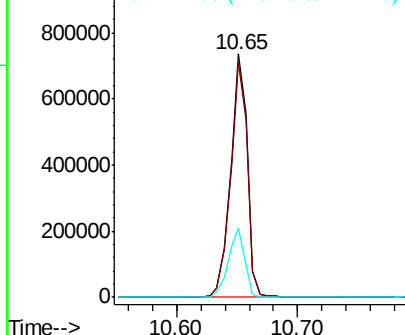
#42  
 2,4,6-Tribromophenol  
 Concen: 93.758 ng  
 RT: 10.65 min Scan# 1456  
 Delta R.T. -0.04 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.6  | 116.4 |
| 141     | 27.9  | 22.2  | 33.2  |

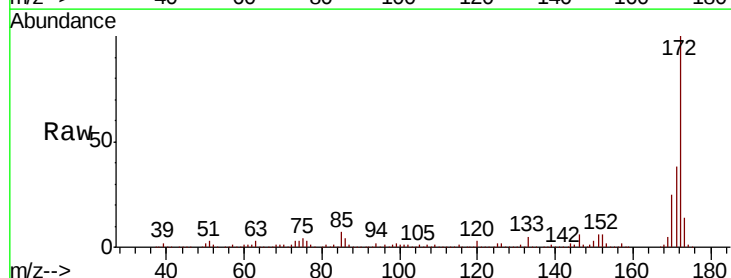


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

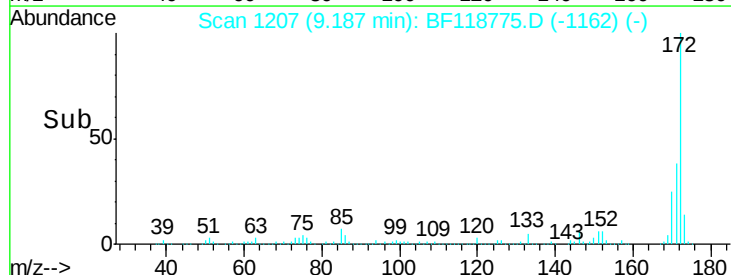
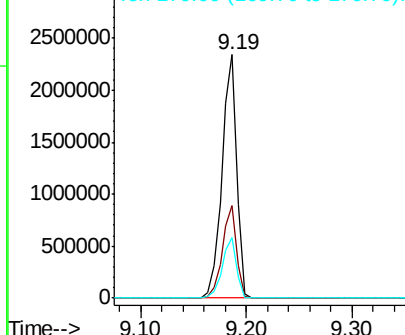


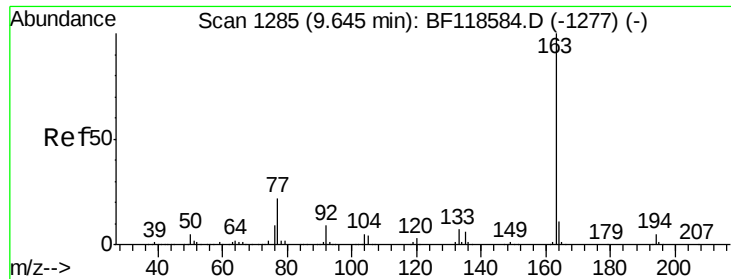
#45  
 2-Fluorobiphenyl  
 Concen: 57.344 ng  
 RT: 9.19 min Scan# 1207  
 Delta R.T. -0.04 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 31.0  | 46.4  |
| 170     | 24.8  | 20.7  | 31.1  |



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

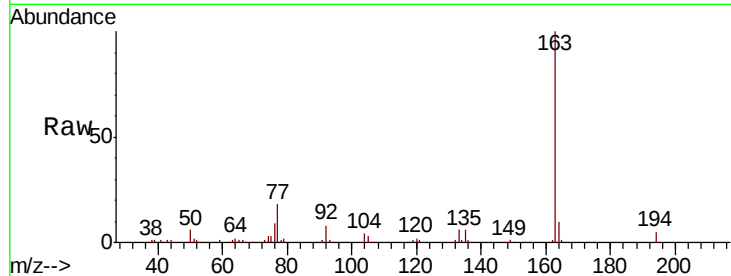




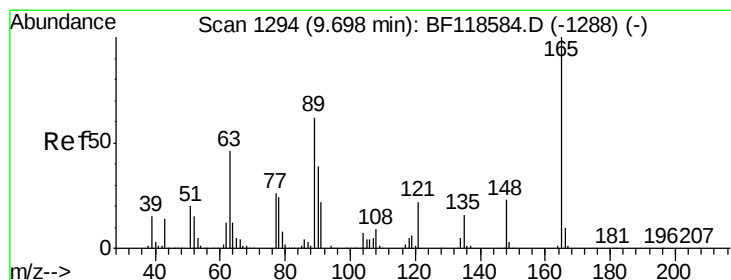
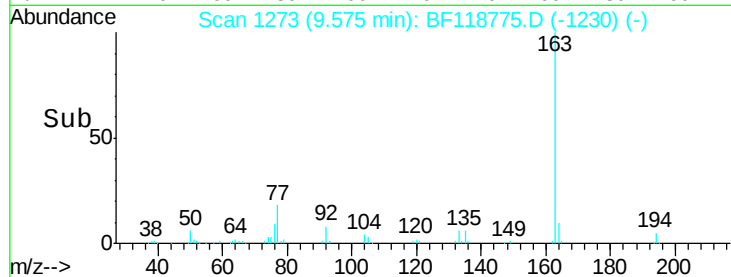
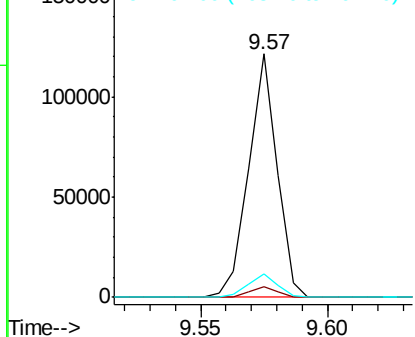
#50  
Dimethylphthalate  
Concen: 2.232 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.05 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:163 Resp: 94969  
Ion Ratio Lower Upper  
163 100  
194 4.6 3.7 5.5  
164 9.8 8.2 12.2

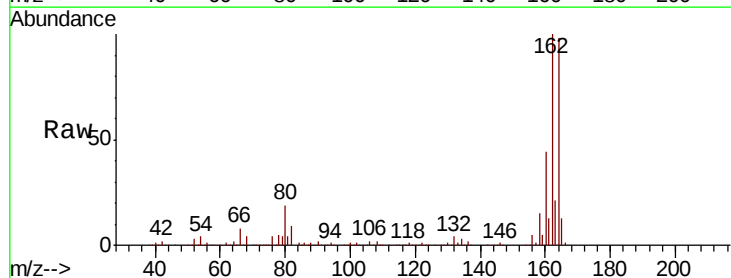


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

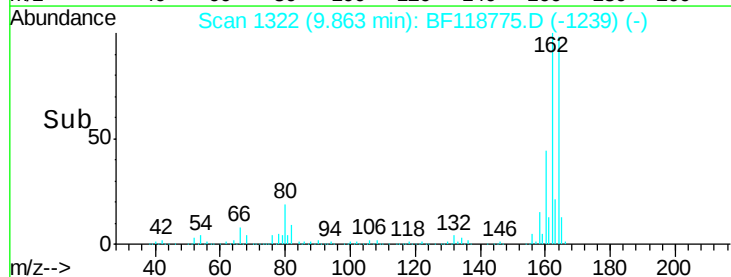
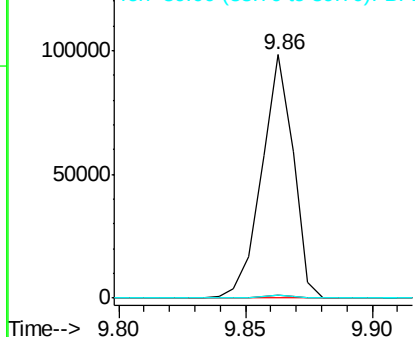


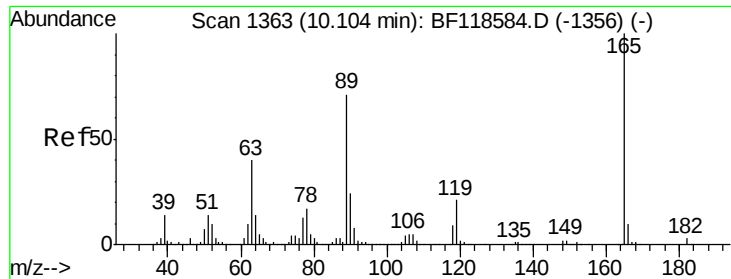
#51  
2,6-Dinitrotoluene  
Concen: 9.001 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. 0.19 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

Tgt Ion:165 Resp: 85767  
Ion Ratio Lower Upper  
165 100  
63 1.0 39.8 59.6#  
89 1.3 41.4 62.2#



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

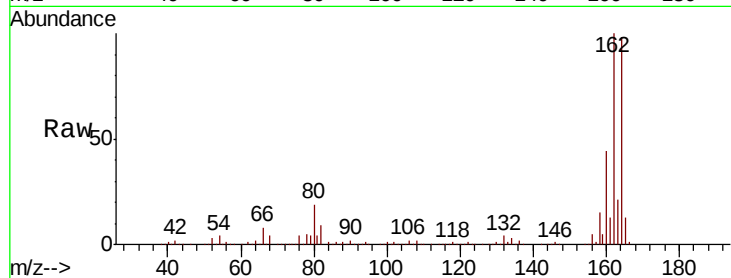




#57  
 2,4-Dinitrotoluene  
 Concen: 7.140 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.22 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 85767      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.0   | 28.5 42.7# |
| 89          | 1.3   | 50.4 75.6# |
| 182         | 0.0   | 2.3 3.5#   |

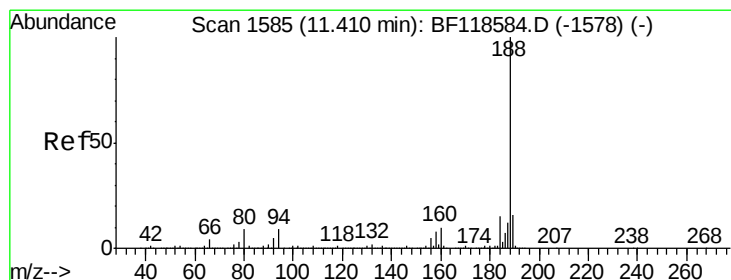
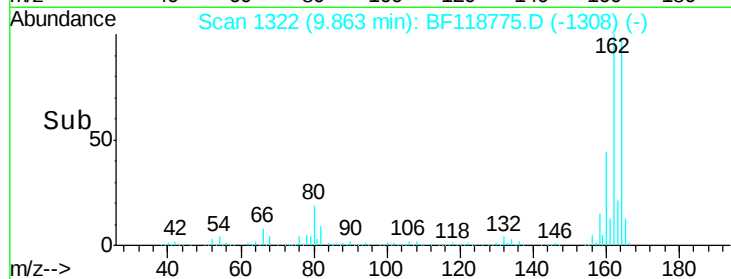
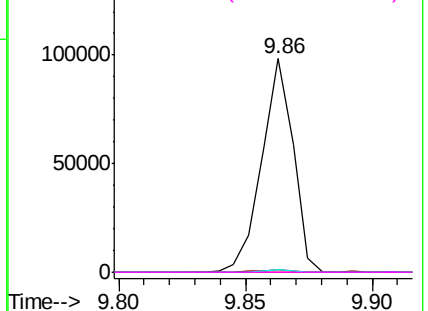


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

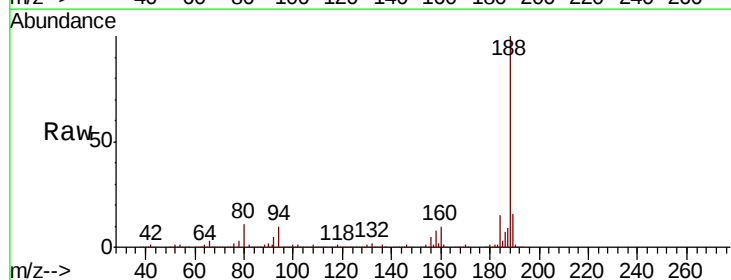
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1574  
 Delta R.T. -0.04 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

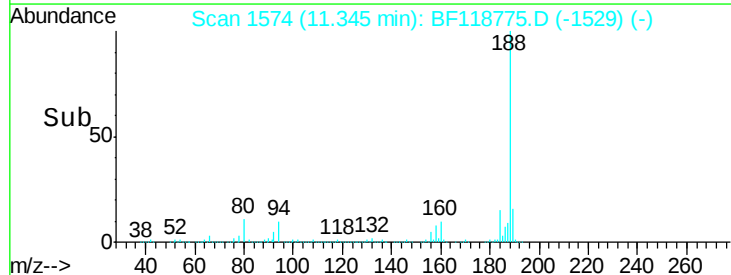
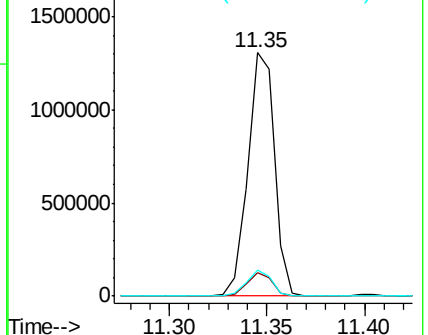
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 1237485  |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 9.7   | 7.4 11.2 |
| 80          | 10.9  | 7.8 11.8 |

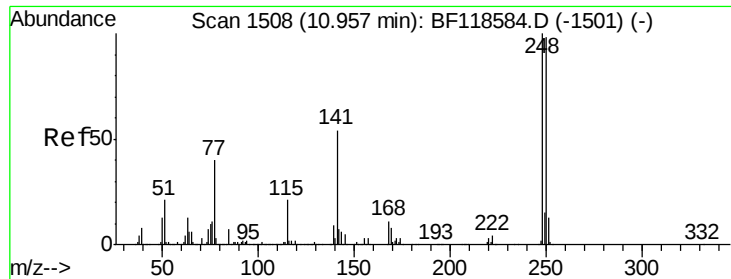


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

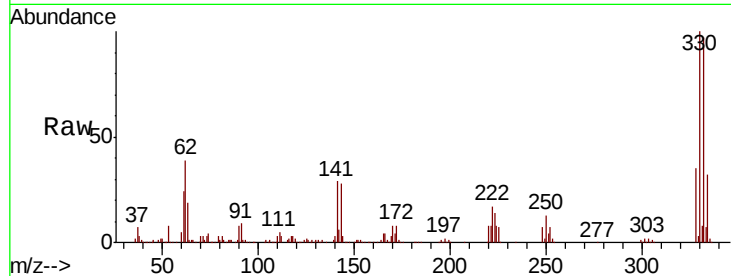




#67  
 4-Bromophenyl-phenylether  
 Concen: 2.974 ng  
 RT: 10.65 min Scan# 1456  
 Delta R.T. -0.28 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 188.6 | 78.7  | 118.1# |
| 141     | 404.7 | 48.4  | 72.6#  |

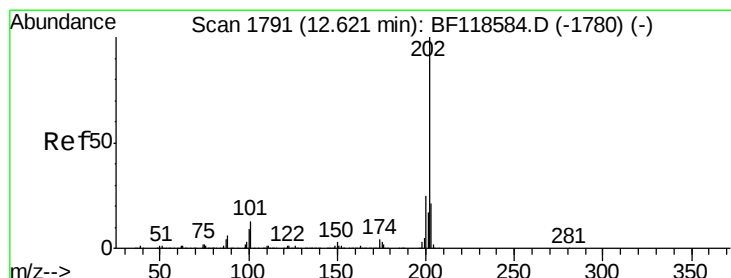
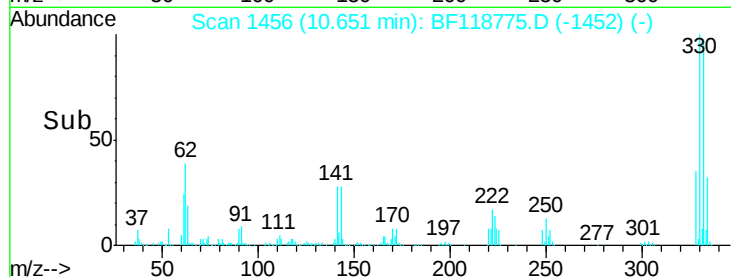
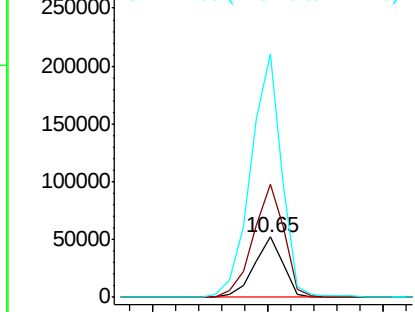


Abundance

Ion 248.00 (247.70 to 248.70): E

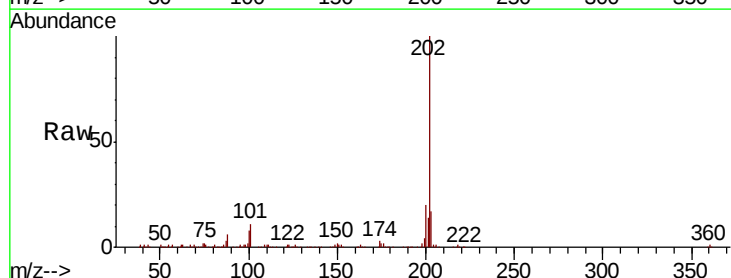
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#75  
 Fluoranthene  
 Concen: 3.575 ng  
 RT: 12.56 min Scan# 1780  
 Delta R.T. -0.04 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.8  | 0.0   | 32.1  |
| 203     | 17.1  | 0.0   | 38.9  |

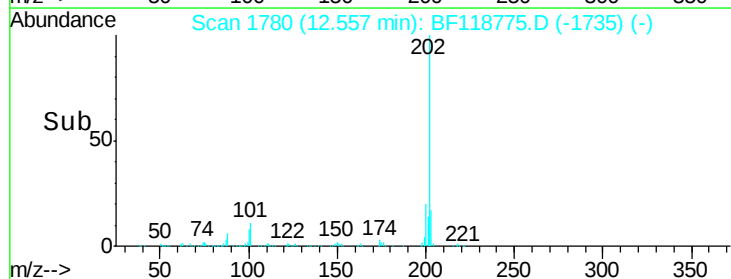
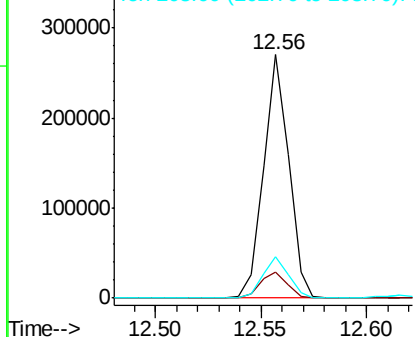


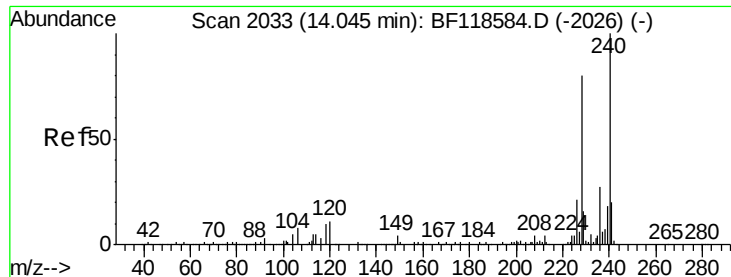
Abundance

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

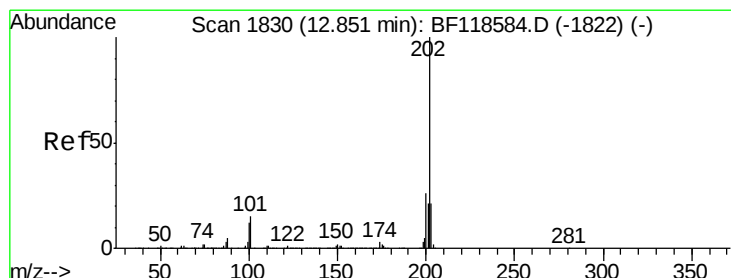
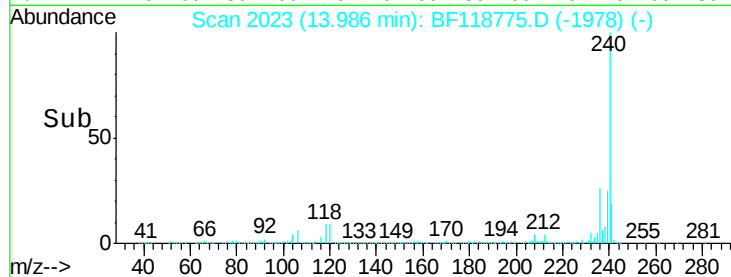
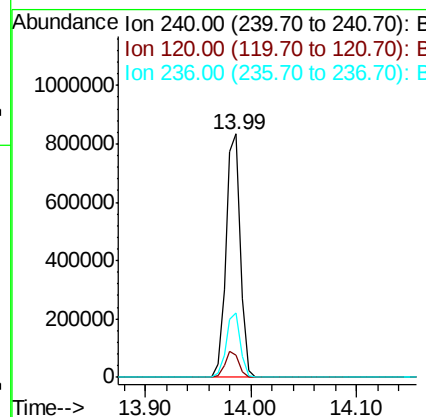
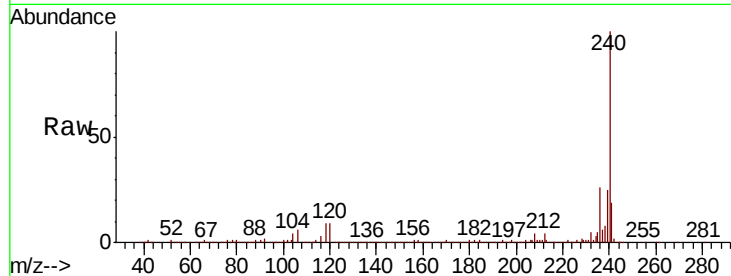




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2033  
Delta R.T. -0.04 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

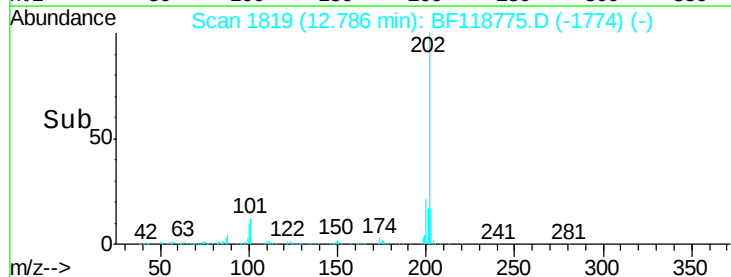
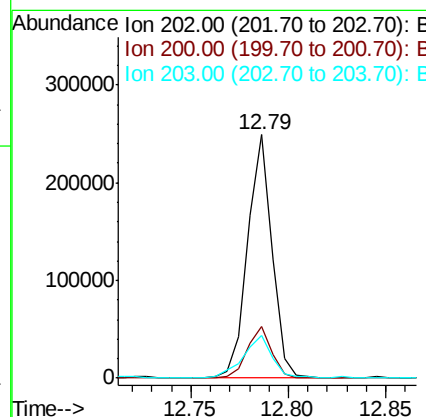
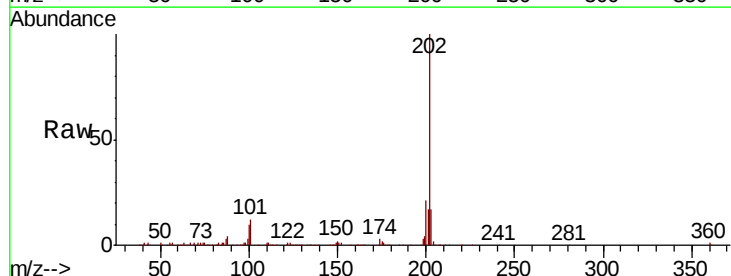
Instrument :  
BNA\_F  
ClientSampleId :

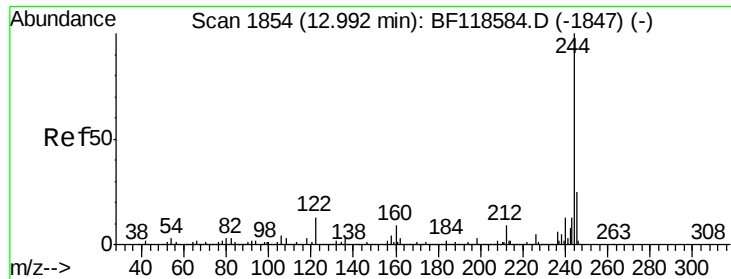
Tot Ion:240 Resp: 798585  
Ion Ratio Lower Upper  
240 100  
120 9.3 7.6 11.4  
236 26.4 21.0 31.4



#78  
Pyrene  
Concen: 3.975 ng  
RT: 12.79 min Scan# 1819  
Delta R.T. -0.04 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

Tgt Ion:202 Resp: 215521  
Ion Ratio Lower Upper  
202 100  
200 21.4 18.1 27.1  
203 17.4 15.2 22.8





#79

Terphenyl-d14

Concen: 71.326 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.03 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

Instrument :

BNA\_F

ClientSampleId :

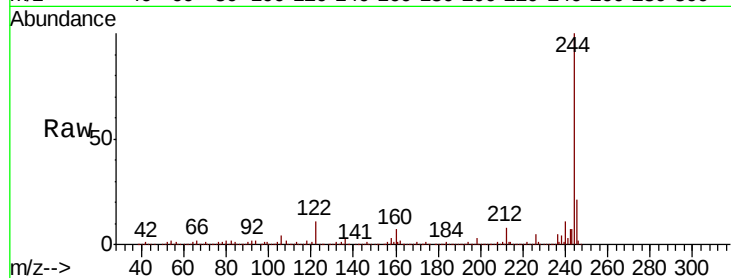
Tot Ion:244 Resp: 2611527

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.5   | 6.3   | 9.5   |
| 122 | 10.9  | 9.2   | 13.8  |

244 100

212 7.5 6.3 9.5

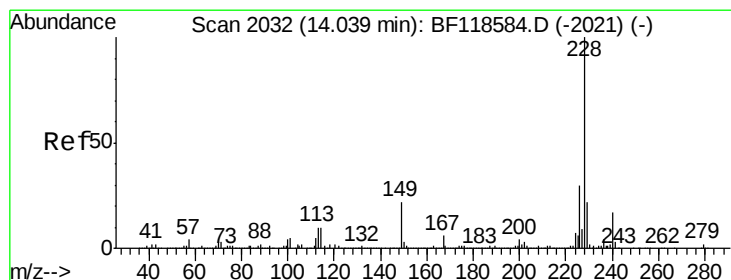
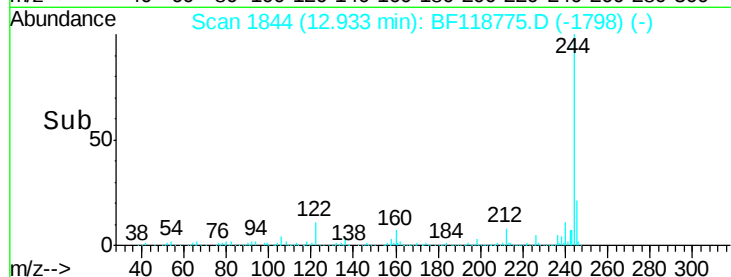
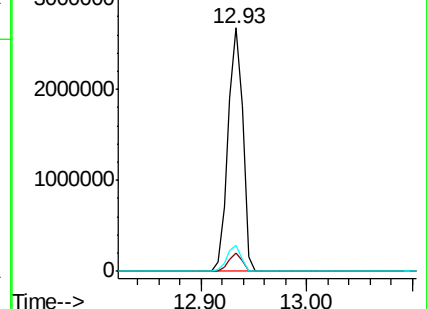
122 10.9 9.2 13.8



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: 2.174 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.04 min

Lab File: BF118775.D

Acq: 31 Jan 2020 12:11

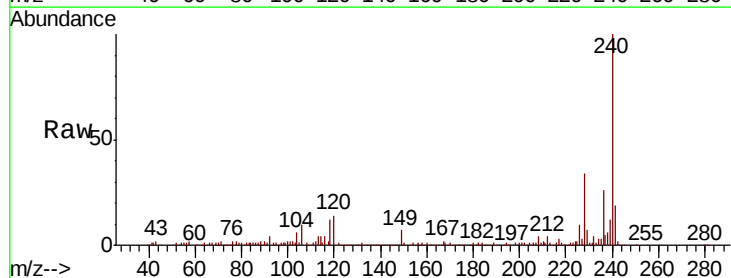
Tgt Ion:228 Resp: 104428

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 28.3  | 22.6  | 34.0  |
| 229 | 20.0  | 16.6  | 25.0  |

228 100

226 28.3 22.6 34.0

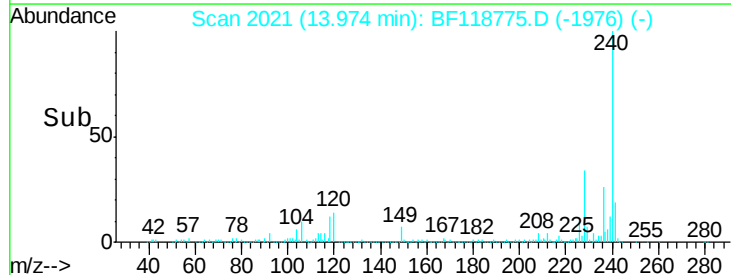
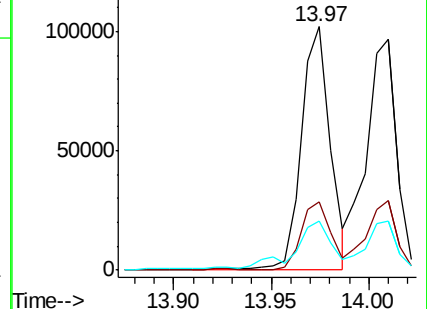
229 20.0 16.6 25.0

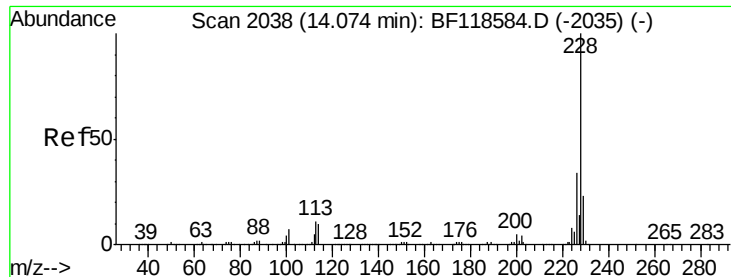


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

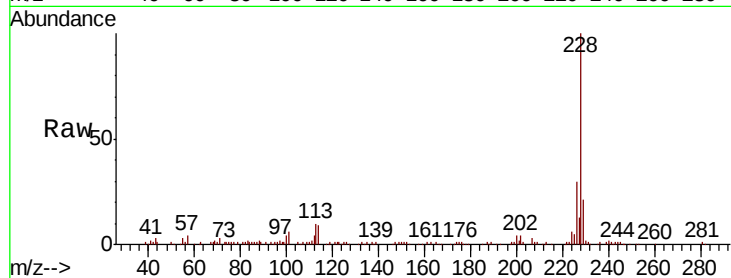




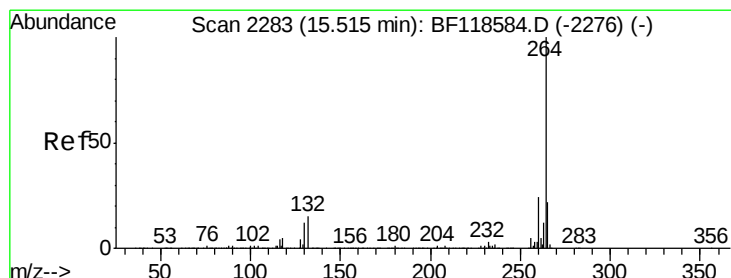
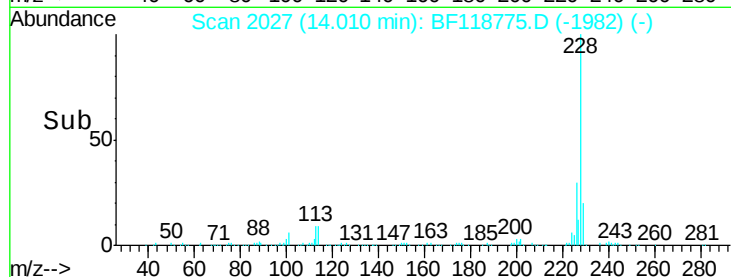
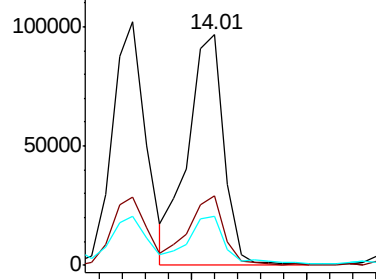
#83  
Chrysene  
Concen: 2.280 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.04 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:228 Resp: 104953  
Ion Ratio Lower Upper  
228 100  
226 29.9 25.6 38.4  
229 21.2 17.1 25.7

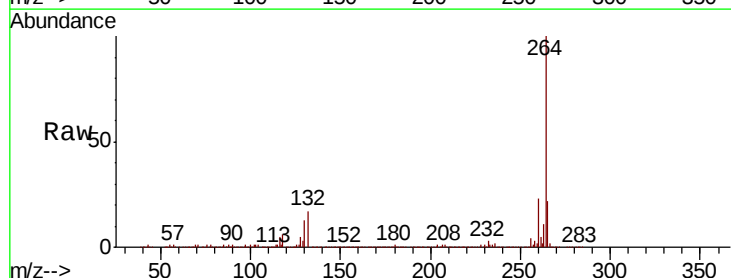


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

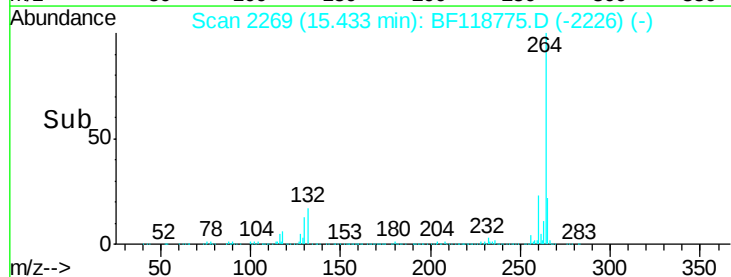
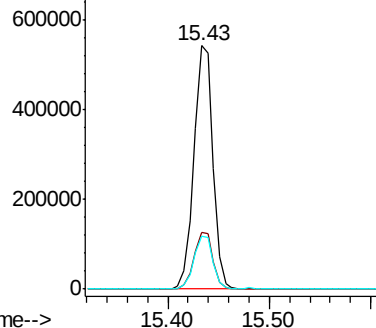


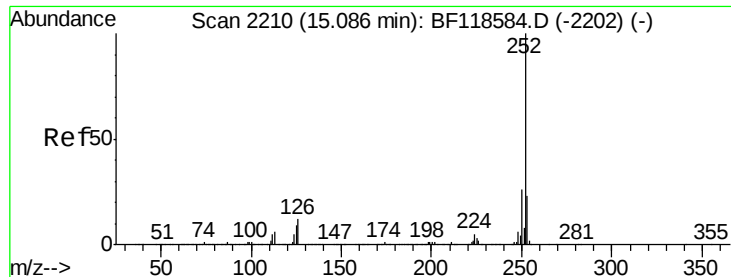
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.05 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

Tgt Ion:264 Resp: 704690  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.6 28.0  
265 21.9 17.0 25.6



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

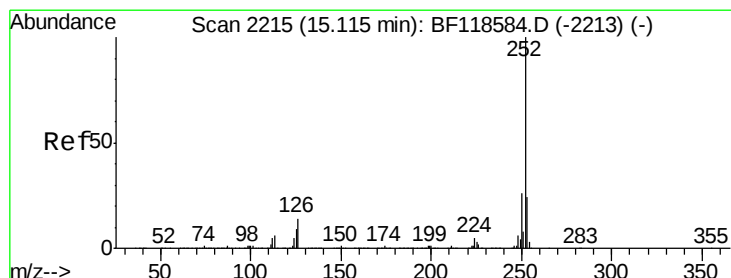
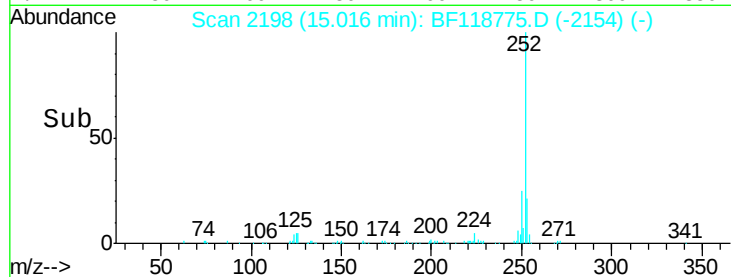
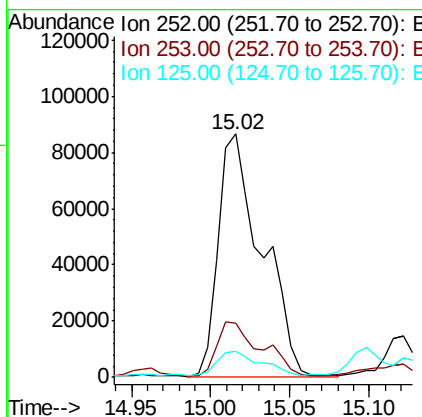
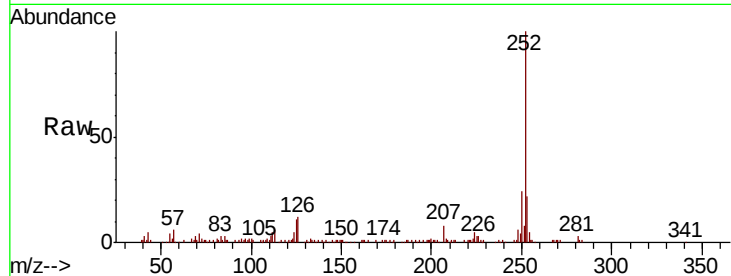




#88  
Benzo(b)fluoranthene  
Concen: 3.752 ng  
RT: 15.02 min Scan# 2198  
Delta R.T. -0.04 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

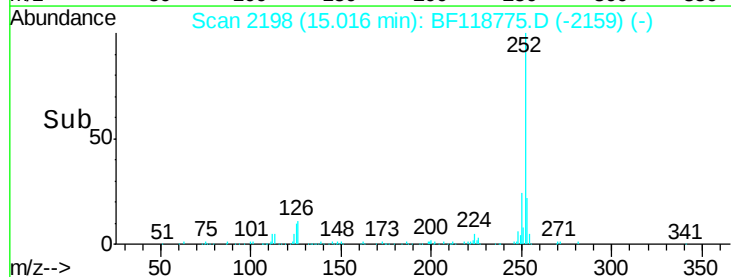
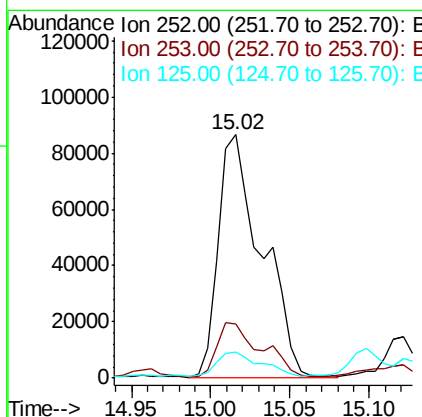
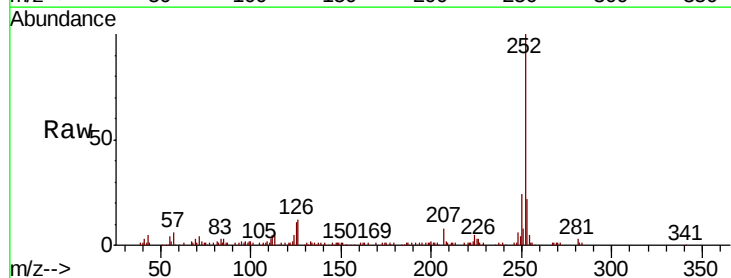
Instrument :  
BNA\_F  
ClientSampleId :

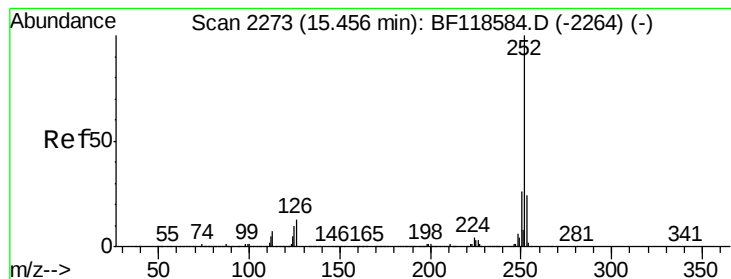
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.2  | 27.4  |
| 125     | 10.8  | 7.7   | 11.5  |



#89  
Benzo(k)fluoranthene  
Concen: 4.050 ng  
RT: 15.02 min Scan# 2198  
Delta R.T. -0.07 min  
Lab File: BF118775.D  
Acq: 31 Jan 2020 12:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 18.4  | 27.6  |
| 125     | 10.8  | 8.1   | 12.1  |





#90  
 Benzo(a)pyrene  
 Concen: 2.080 ng  
 RT: 15.37 min Scan# 2258  
 Delta R.T. -0.05 min  
 Lab File: BF118775.D  
 Acq: 31 Jan 2020 12:11

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.2  | 27.4  |
| 125     | 12.9  | 8.3   | 12.5  |

