

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF122619\  
 Data File : BF118328.D  
 Acq On : 26 Dec 2019 20:43  
 Operator : JU  
 Sample : K6395-03 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 27 03:26:56 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  | 133530   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.14  | 136  | 541594   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 273440   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 430119   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.05 | 240  | 319502   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 255982   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.46  | 112  | 325353   | 41.59 | ng    | 0.00     |
| 7) Phenol-d6                | 6.48  | 99   | 430216   | 44.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 245512   | 25.93 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330  | 111120   | 32.91 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.22  | 172  | 487508   | 27.21 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.98 | 244  | 417609   | 21.68 | ng    | 0.00     |

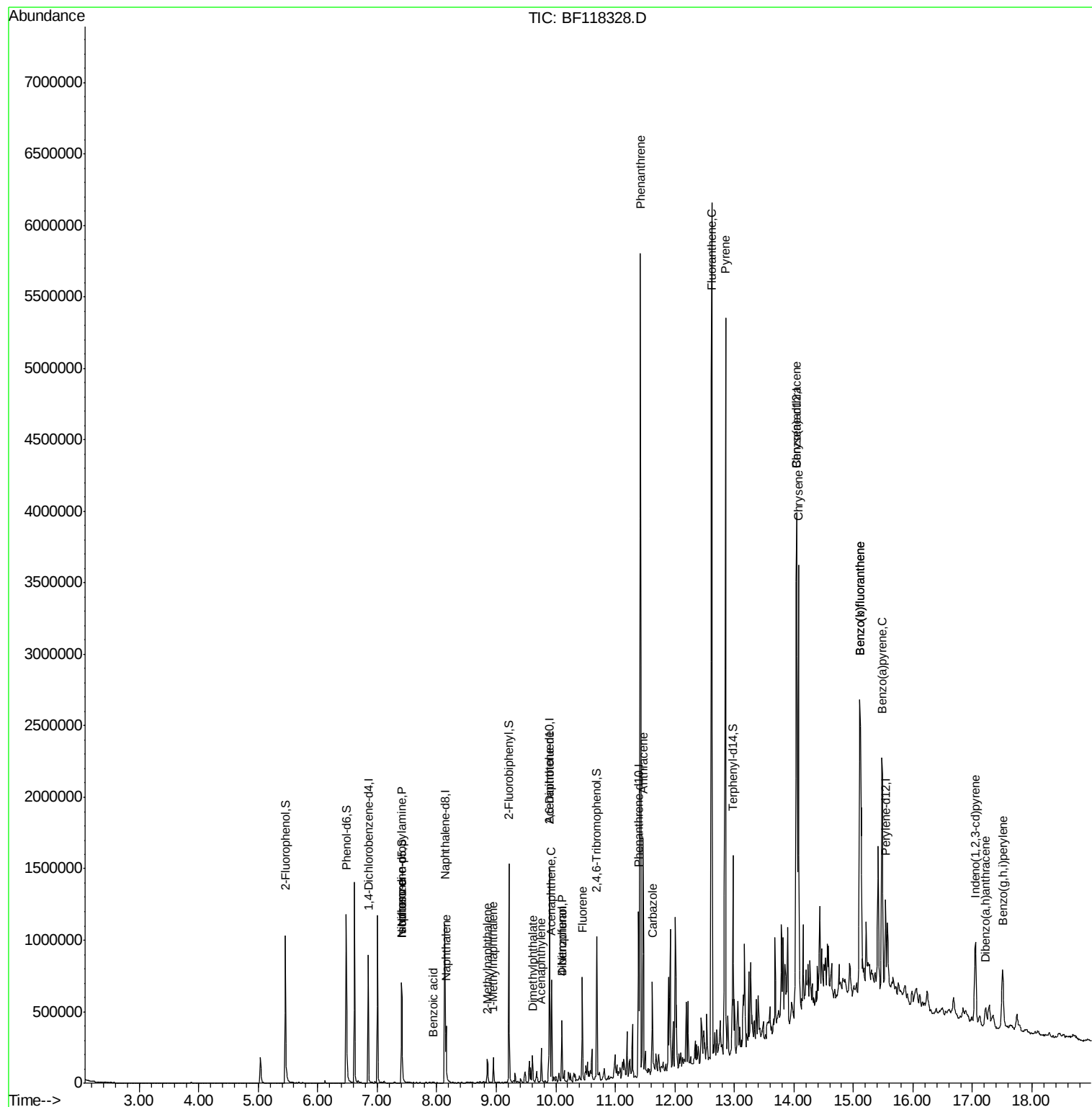
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units | Qvalue |
|--------------------------------|-------|------|----------|---------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 32664    | 5.464   | ng    | # 80   |
| 25) Isophorone                 | 7.41  | 82   | 245510   | 14.877  | ng    | # 62   |
| 31) Naphthalene                | 8.16  | 128  | 163767   | 5.949   | ng    | 99     |
| 32) Benzoic acid               | 7.94  | 122  | 2372     | 6.038   | ng    | # 27   |
| 37) 2-Methylnaphthalene        | 8.85  | 142  | 49382    | 2.620   | ng    | 95     |
| 38) 1-Methylnaphthalene        | 8.95  | 142  | 44925    | 2.530   | ng    | 98     |
| 49) Acenaphthylene             | 9.76  | 152  | 83995    | 3.254   | ng    | 97     |
| 50) Dimethylphthalate          | 9.61  | 163  | 66738    | 3.251   | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 39023    | 8.818   | ng    | # 26   |
| 52) Acenaphthene               | 9.93  | 154  | 152929   | 9.725   | ng    | 100    |
| 55) Dibenzofuran               | 10.10 | 168  | 144907   | 6.237   | ng    | 99     |
| 56) 4-Nitrophenol              | 10.10 | 139  | 58588    | 18.273  | ng    | # 8    |
| 58) Fluorene                   | 10.45 | 166  | 189322   | 10.094  | ng    | 99     |
| 71) Phenanthrene               | 11.42 | 178  | 2117258  | 90.296  | ng    | 98     |
| 72) Anthracene                 | 11.47 | 178  | 566738   | 24.147  | ng    | 97     |
| 73) Carbazole                  | 11.62 | 167  | 234533   | 11.262  | ng    | 98     |
| 75) Fluoranthene               | 12.62 | 202  | 2560133  | 108.187 | ng    | 96     |
| 78) Pyrene                     | 12.85 | 202  | 2216665  | 84.960  | ng    | 97     |
| 81) Benzo(a)anthracene         | 14.04 | 228  | 1307716  | 58.474  | ng    | 99     |
| 83) Chrysene                   | 14.08 | 228  | 1114878  | 52.063  | ng    | 97     |
| 86) Indeno(1,2,3-cd)pyrene     | 17.05 | 276  | 367522   | 20.142  | ng    | # 94   |
| 88) Benzo(b)fluoranthene       | 15.11 | 252  | 1615706  | 95.086  | ng    | 97     |
| 89) Benzo(k)fluoranthene       | 15.11 | 252  | 1615706  | 99.030  | ng    | 99     |
| 90) Benzo(a)pyrene             | 15.48 | 252  | 765698   | 51.154  | ng    | 95     |
| 91) Dibenzo(a,h)anthracene     | 17.22 | 278  | 85799    | 6.605   | ng    | 96     |
| 92) Benzo(g,h,i)perylene       | 17.51 | 276  | 338862   | 27.006  | ng    | 99     |

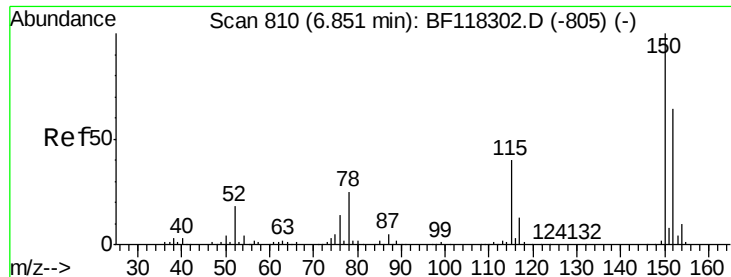
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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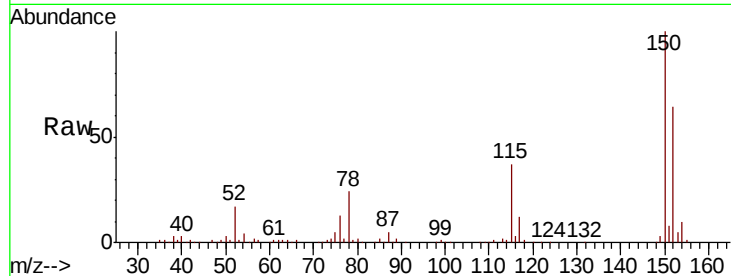


#1

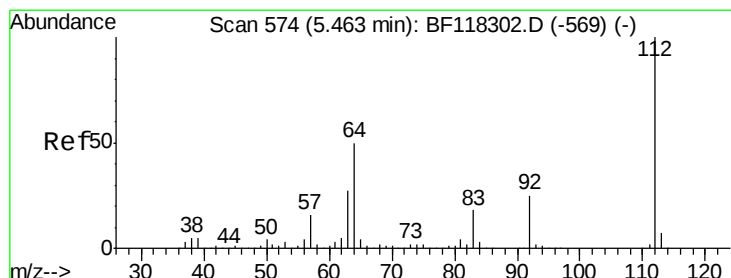
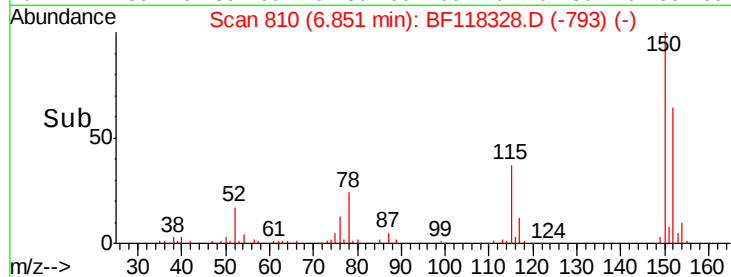
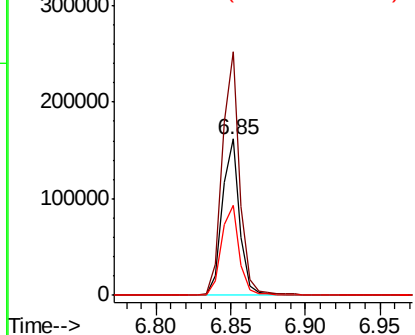
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 133530  
Ion Ratio Lower Upper  
152 100  
150 156.1 125.4 188.2  
115 57.4 50.2 75.4



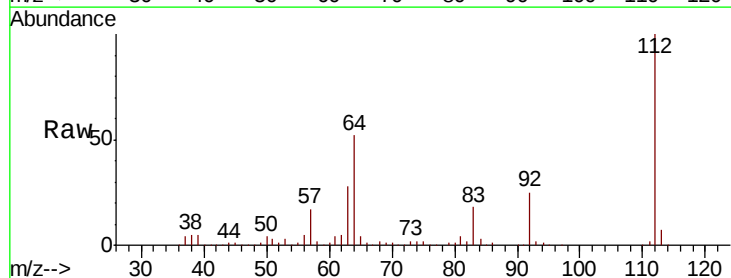
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



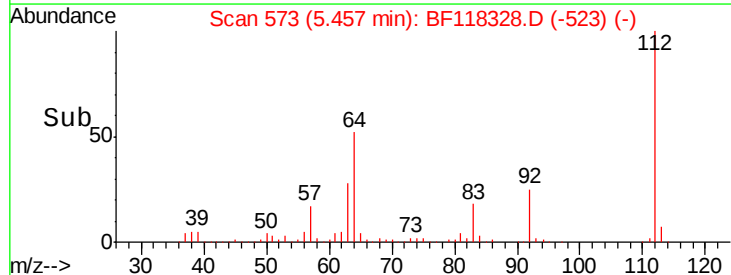
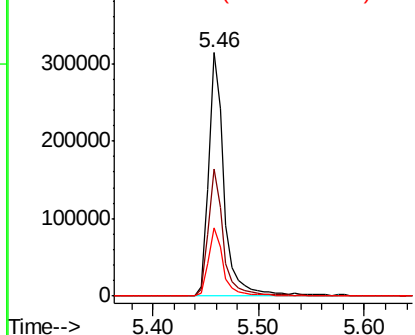
#5

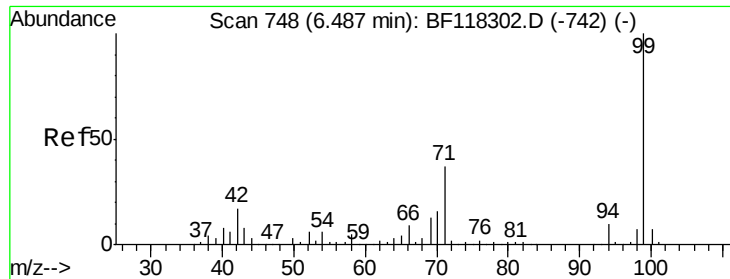
2-Fluorophenol  
Concen: 41.592 ng  
RT: 5.46 min Scan# 573  
Delta R.T. -0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:112 Resp: 325353  
Ion Ratio Lower Upper  
112 100  
64 52.1 39.7 59.5  
63 28.1 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: 44.334 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampled :

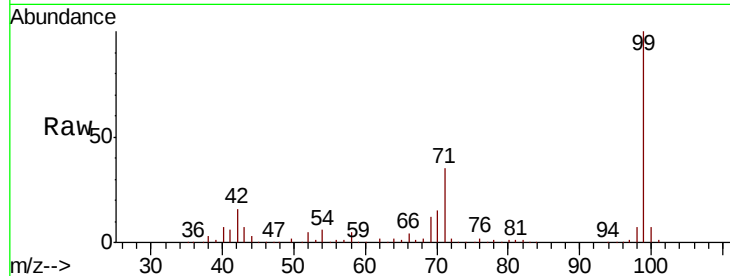
Tot Ion: 99 Resp: 430216

Ion Ratio Lower Upper

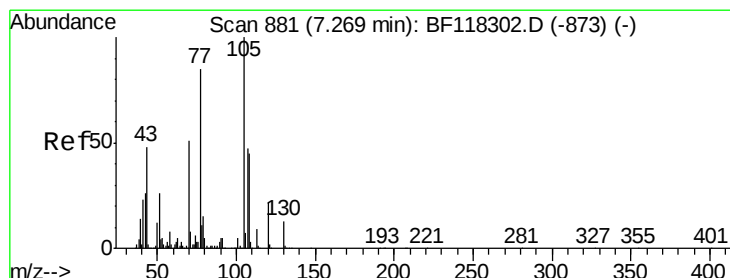
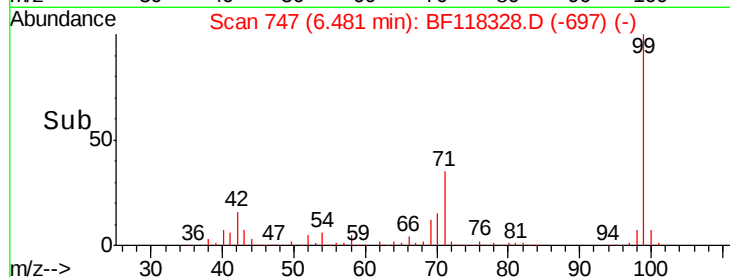
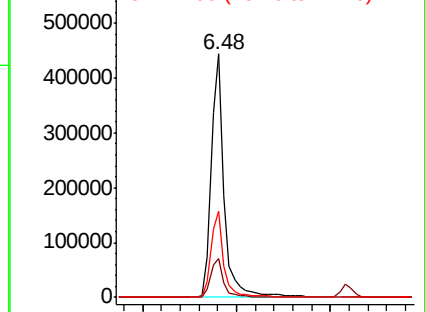
99 100

42 15.8 13.5 20.3

71 35.4 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



#19

n-Nitroso-di-n-propylamine

Concen: 5.464 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Tgt Ion: 70 Resp: 32664

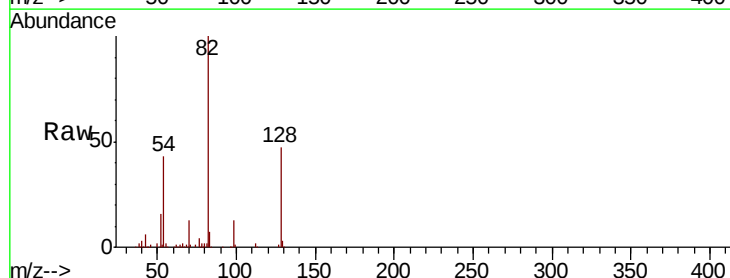
Ion Ratio Lower Upper

70 100

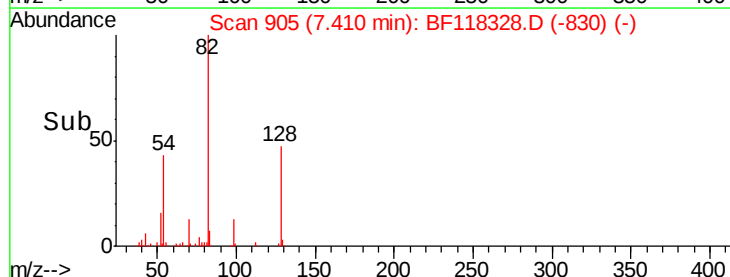
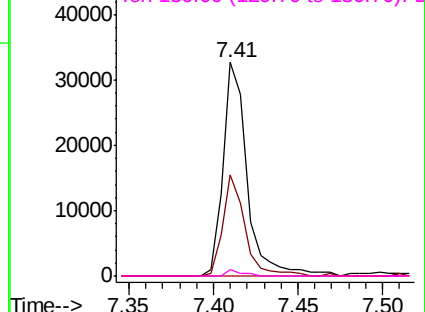
42 47.5 41.1 61.7

101 0.0 8.3 12.5#

130 2.7 20.1 30.1#



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): E  
Ion 130.00 (129.70 to 130.70): E

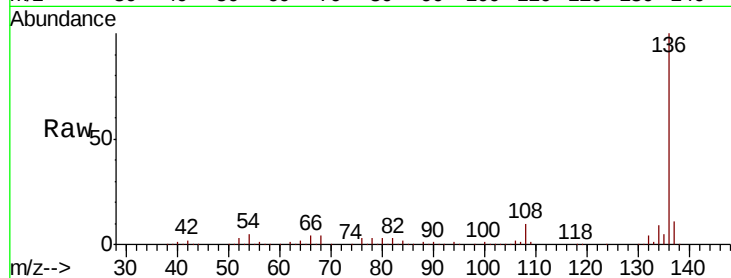




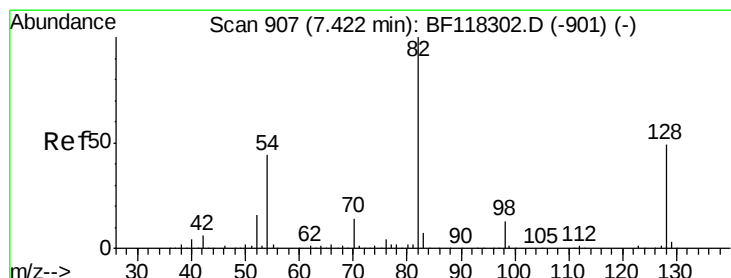
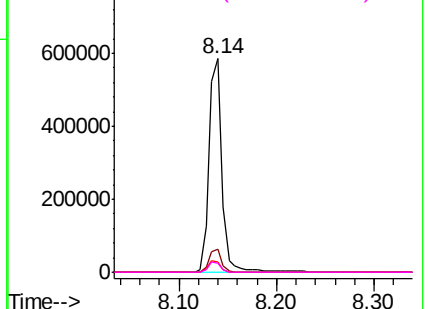
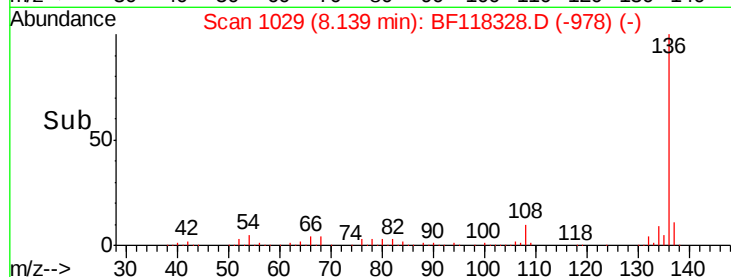
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.14 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 541594 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 5.0   | 4.2   | 6.4    |
| 68       | 4.2   | 3.5   | 5.3    |

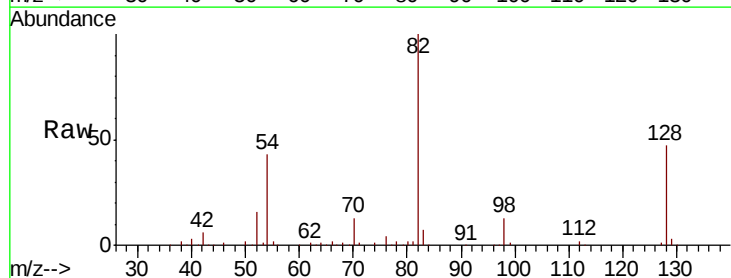


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

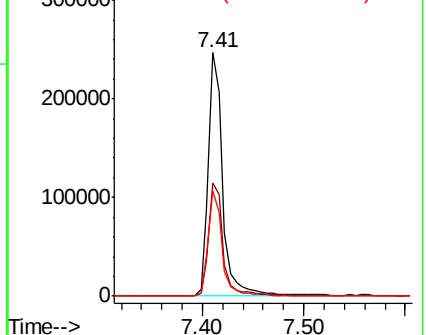
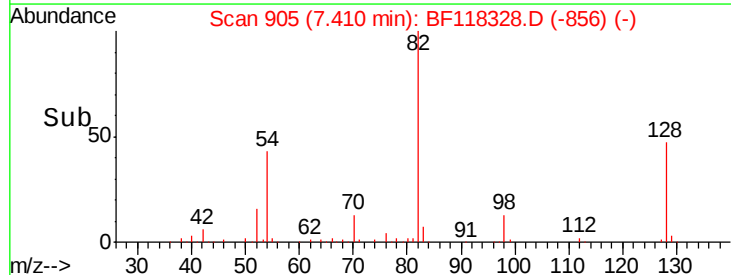


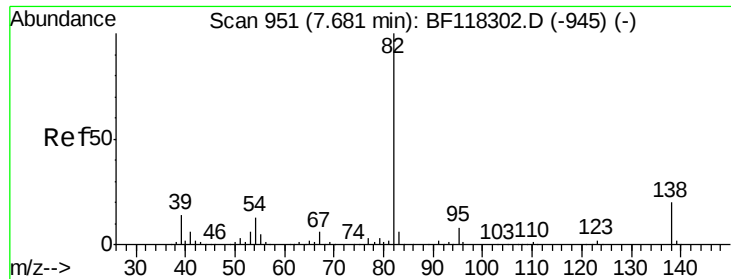
#23  
Nitrobenzene-d5  
Concen: 25.927 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 245512 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.6  | 39.6  | 59.4   |
| 54       | 43.2  | 34.9  | 52.3   |



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: 14.877 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.27 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampleId :

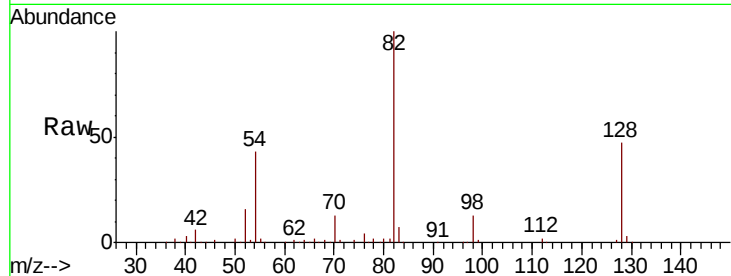
Tot Ion: 82 Resp: 245510

Ion Ratio Lower Upper

82 100

95 0.0 6.3 9.5#

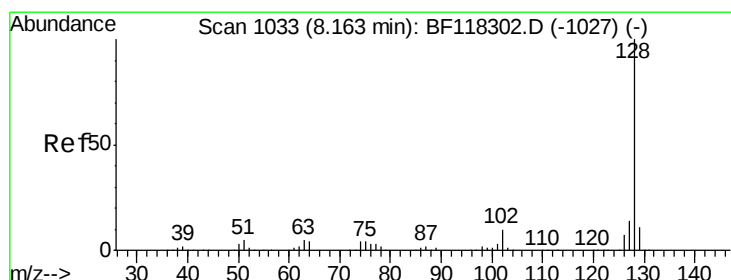
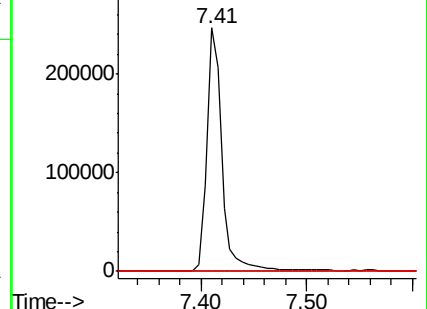
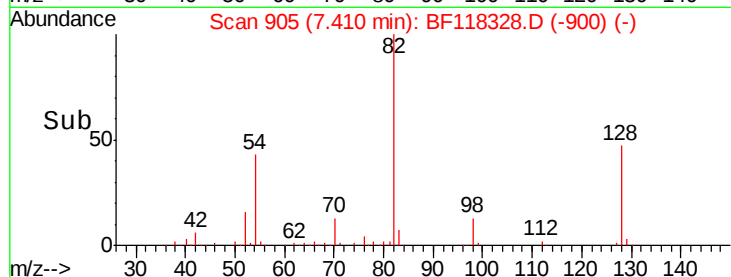
138 0.0 16.2 24.2#



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: 5.949 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

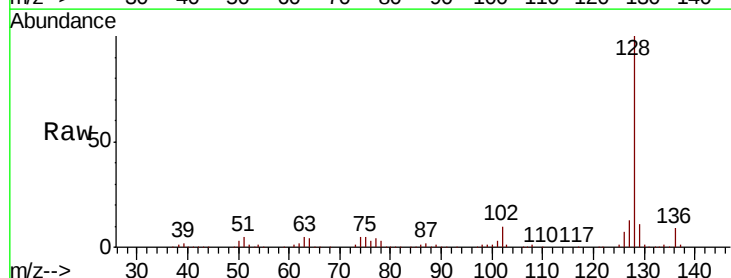
Tgt Ion: 128 Resp: 163767

Ion Ratio Lower Upper

128 100

129 11.5 9.0 13.4

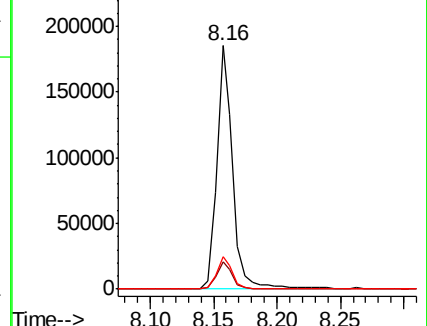
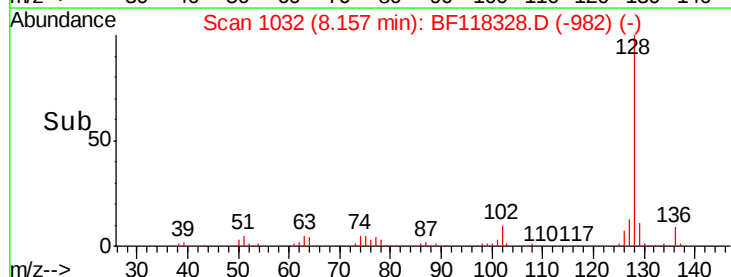
127 13.3 11.0 16.4

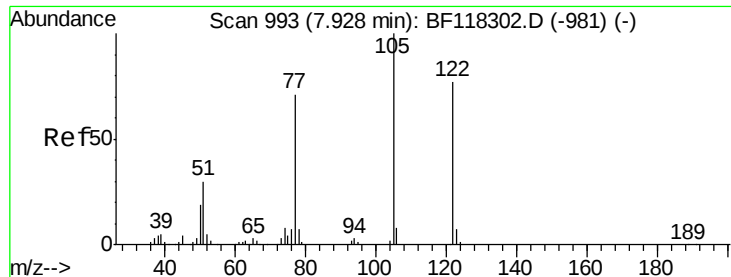


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

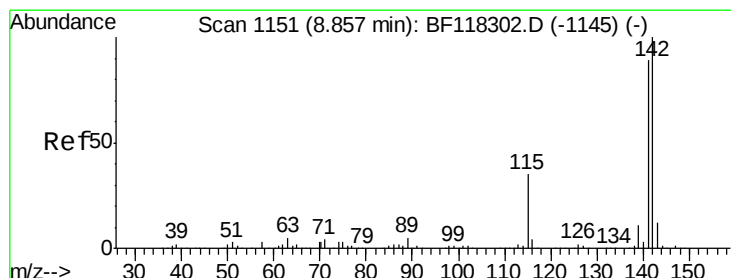
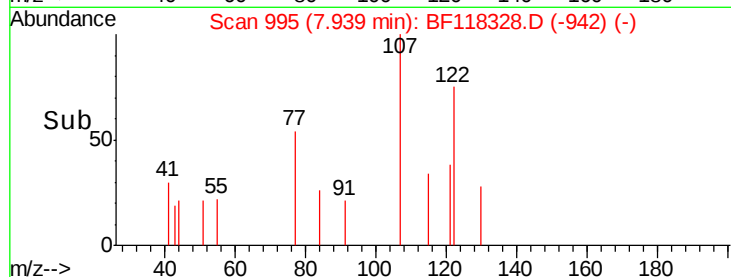
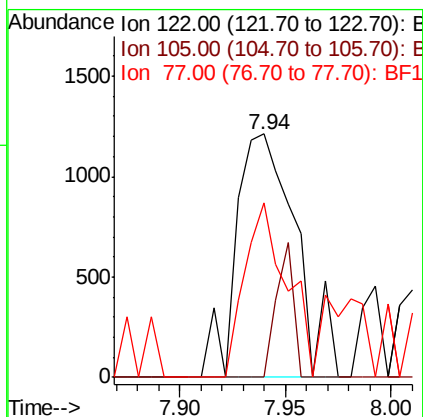
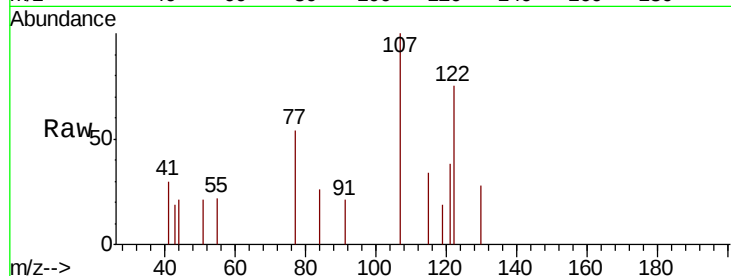




#32  
Benzoic acid  
Concen: 6.038 ng  
RT: 7.94 min Scan# 995  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

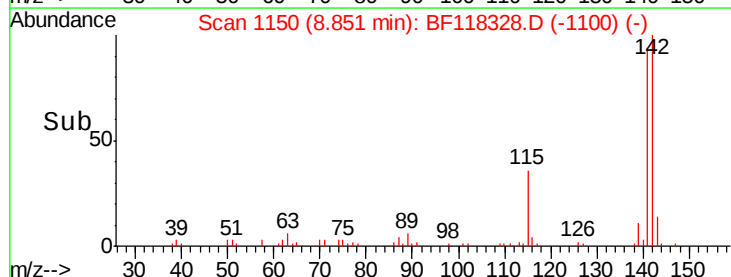
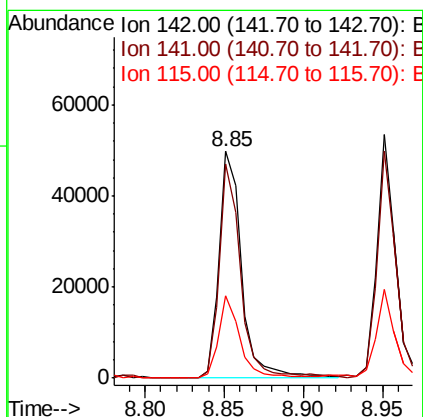
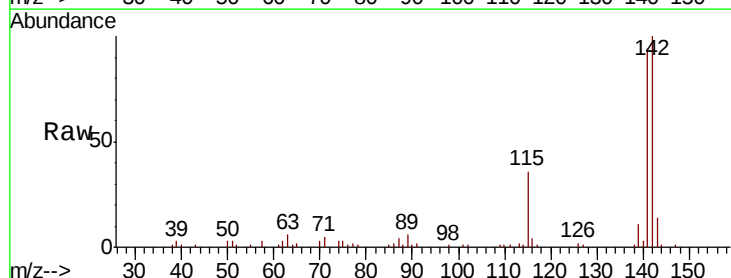
Instrument :  
BNA\_F  
ClientSampleId :

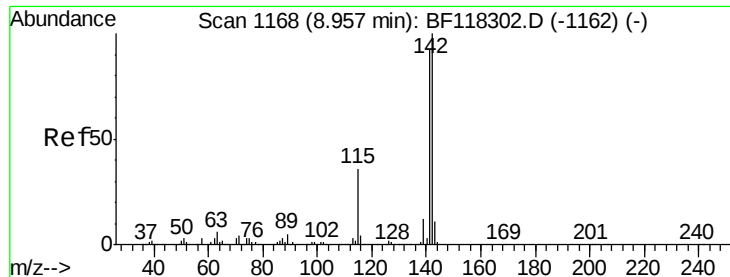
Tot Ion:122 Resp: 2372  
Ion Ratio Lower Upper  
122 100  
105 0.0 106.8 146.8#  
77 71.6 70.4 110.4



#37  
2-Methylnaphthalene  
Concen: 2.620 ng  
RT: 8.85 min Scan# 1150  
Delta R.T. -0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:142 Resp: 49382  
Ion Ratio Lower Upper  
142 100  
141 94.4 71.2 106.8  
115 36.1 28.0 42.0

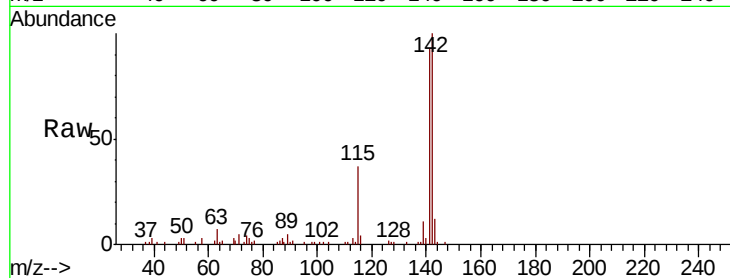




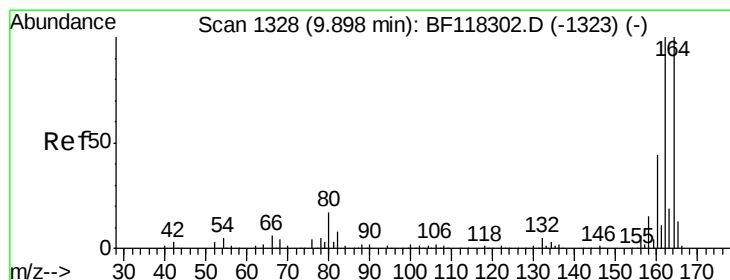
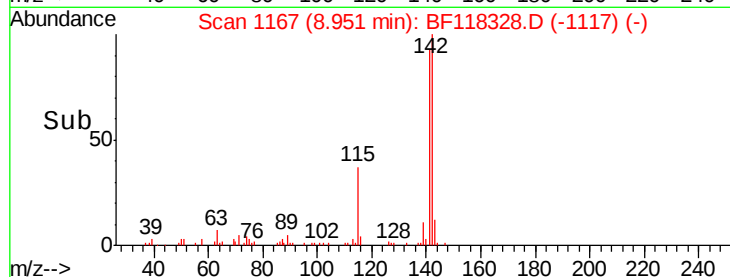
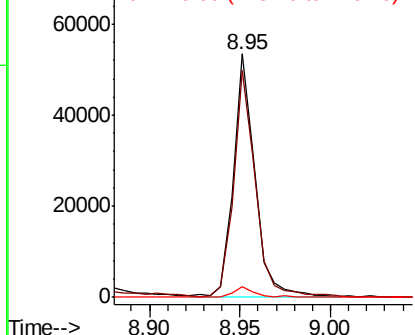
#38  
1-Methylnaphthalene  
Concen: 2.530 ng  
RT: 8.95 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 44925  
Ion Ratio Lower Upper  
142 100  
141 93.3 73.4 110.2  
116 4.1 2.9 4.3

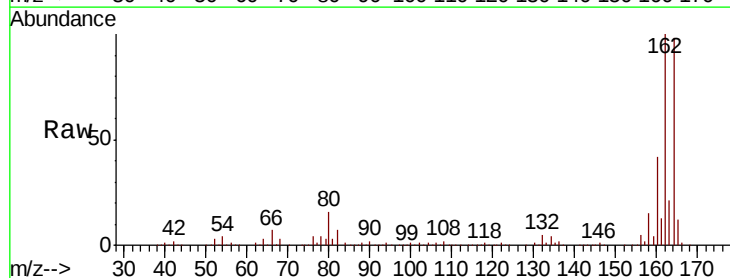


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E

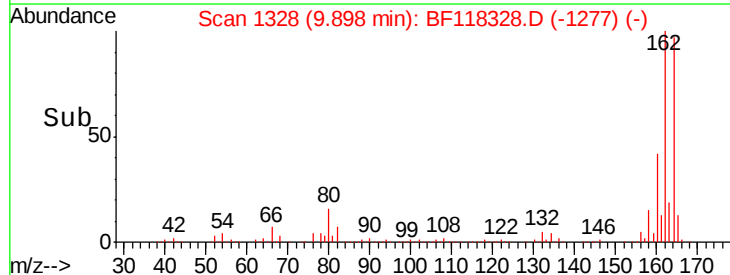
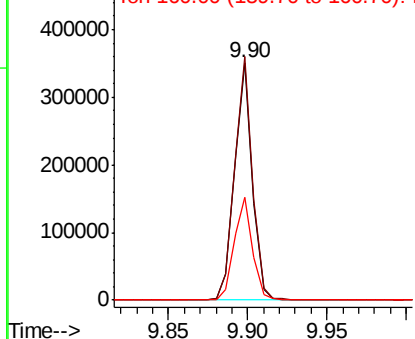


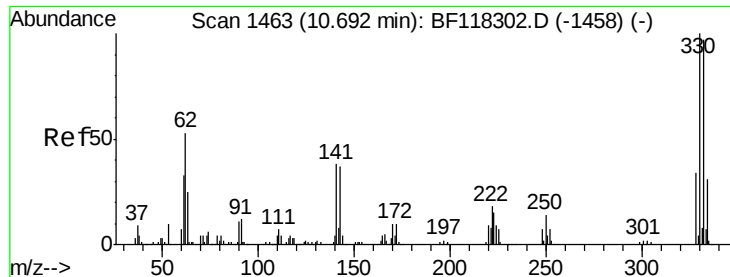
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.00 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:164 Resp: 273440  
Ion Ratio Lower Upper  
164 100  
162 102.4 80.0 120.0  
160 43.4 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

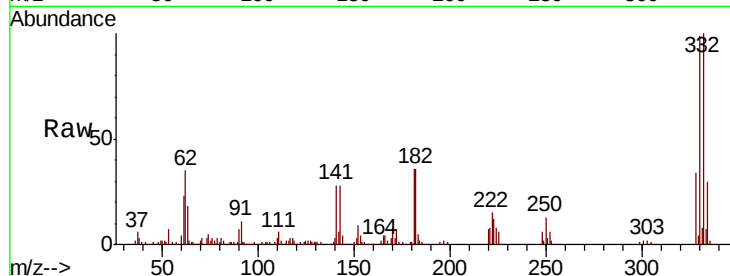




#42  
 2,4,6-Tribromophenol  
 Concen: 32.907 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. 0.00 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.8  | 76.6  | 114.8 |
| 141     | 37.3  | 26.0  | 39.0  |

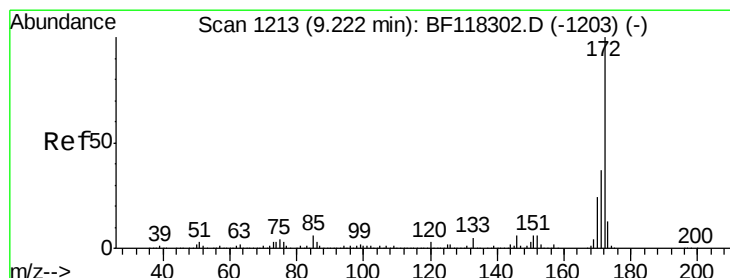
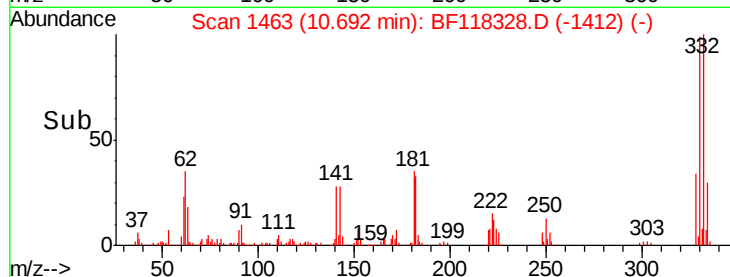
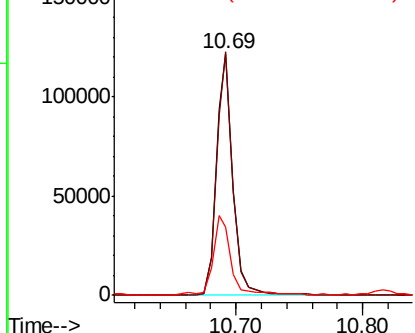


Abundance

Ion 329.80 (329.50 to 330.50): E

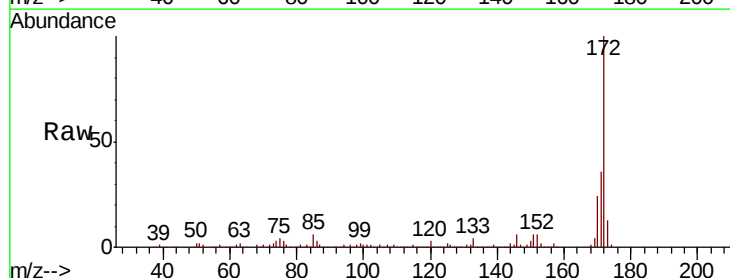
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 27.215 ng  
 RT: 9.22 min Scan# 1212  
 Delta R.T. -0.01 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 29.3  | 43.9  |
| 170     | 24.1  | 19.2  | 28.8  |

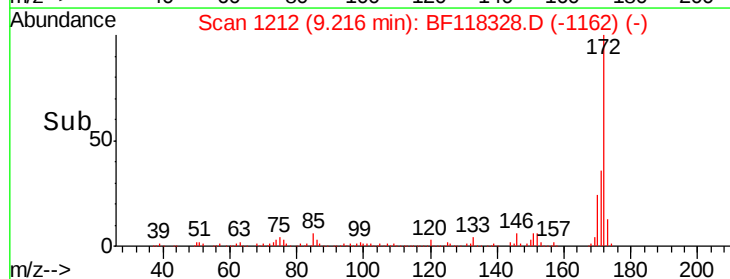
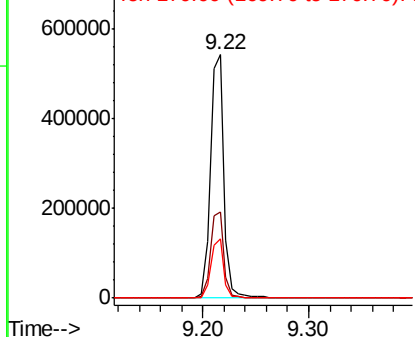


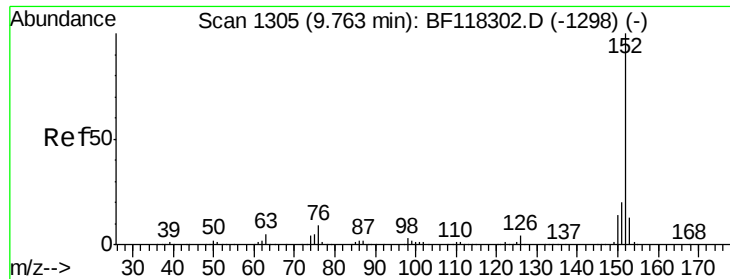
Abundance

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





#49

Acenaphthylene

Concen: 3.254 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampleId :

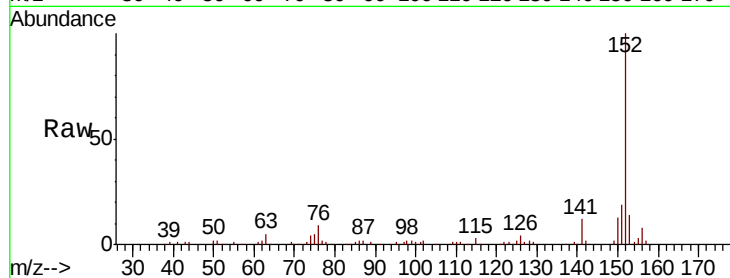
Tot Ion:152 Resp: 83995

Ion Ratio Lower Upper

152 100

151 18.7 16.2 24.2

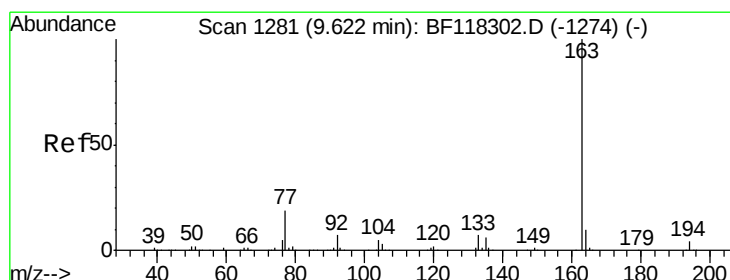
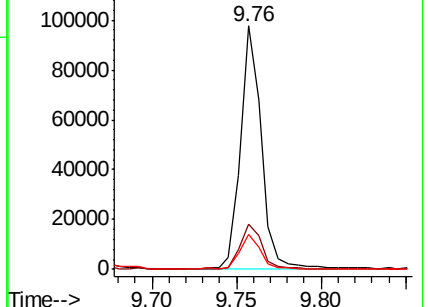
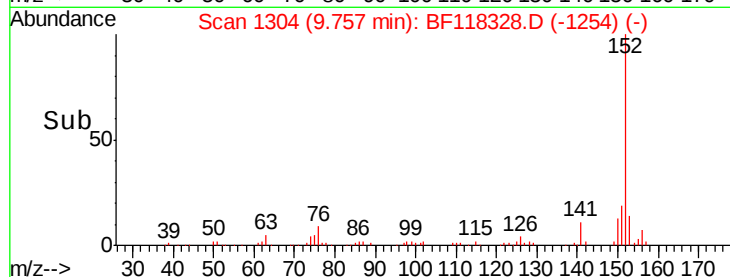
153 14.3 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.251 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

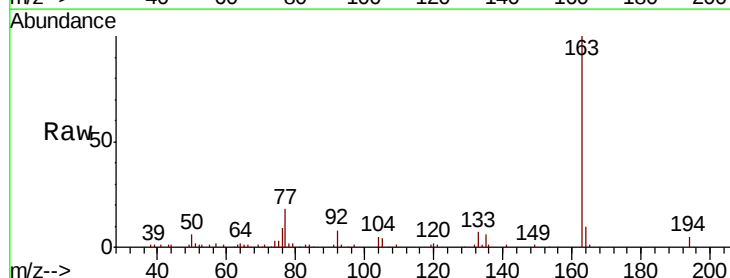
Tgt Ion:163 Resp: 66738

Ion Ratio Lower Upper

163 100

194 4.5 3.2 4.8

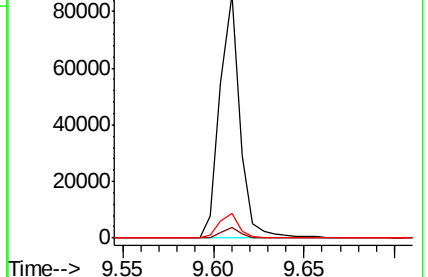
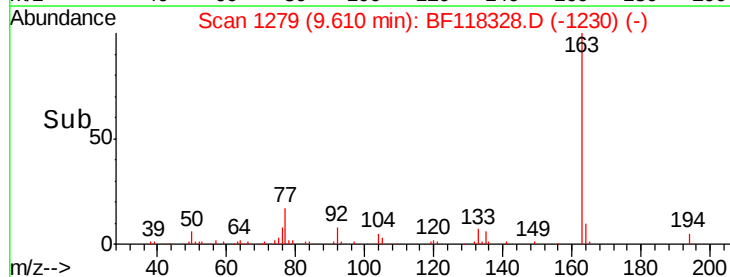
164 10.0 7.9 11.9

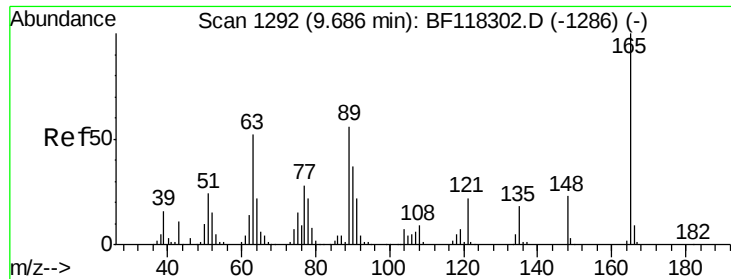


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

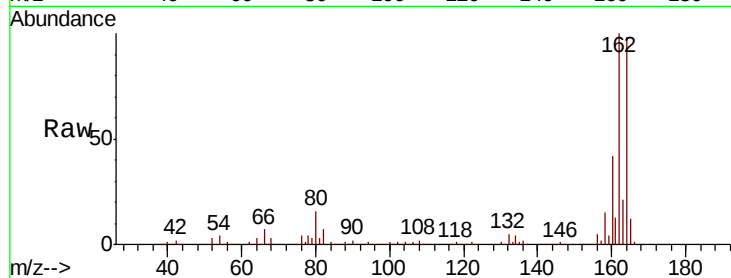




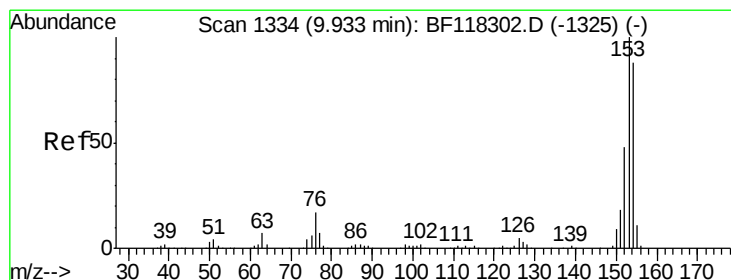
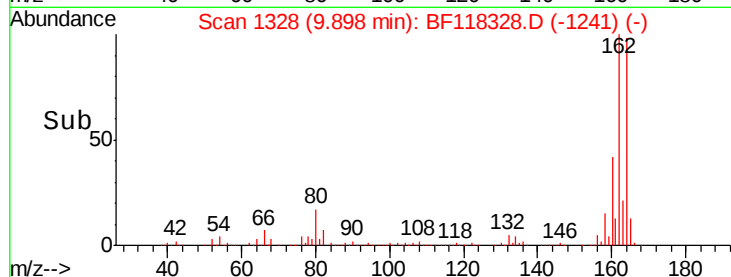
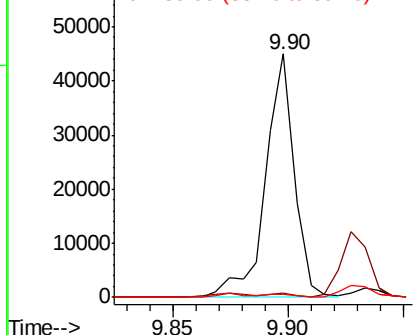
#51  
2,6-Dinitrotoluene  
Concen: 8.818 ng  
RT: 9.90 min Scan# 1328  
Delta R.T. 0.21 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 42.2  | 63.4# |
| 89      | 1.1   | 44.4  | 66.6# |

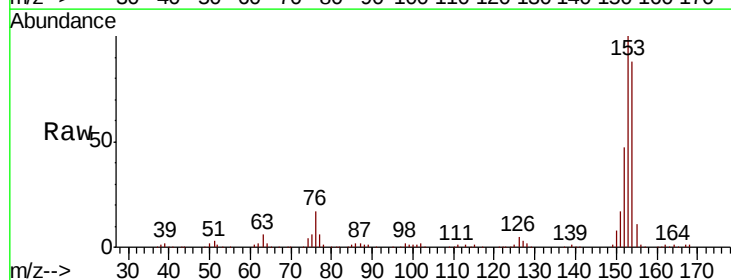


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

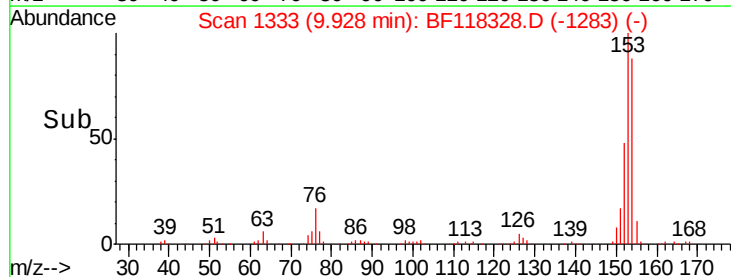
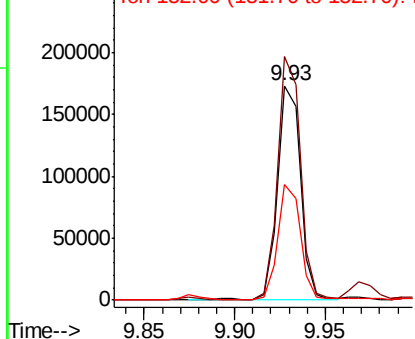


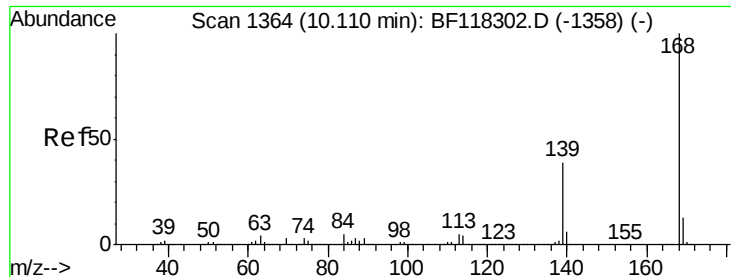
#52  
Acenaphthene  
Concen: 9.725 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.5 | 90.6  | 136.0 |
| 152     | 53.8  | 43.1  | 64.7  |



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E





#55

Dibenzofuran

Concen: 6.237 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampleId :

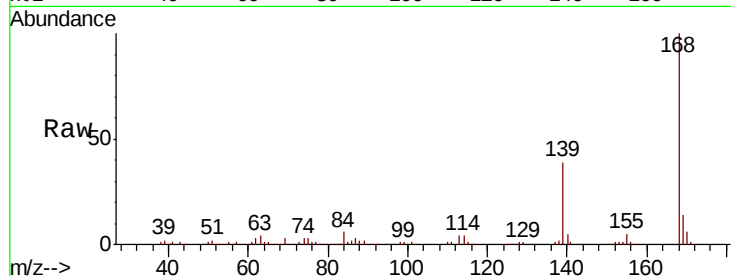
Tot Ion:168 Resp: 144907

Ion Ratio Lower Upper

168 100

139 39.1 31.5 47.3

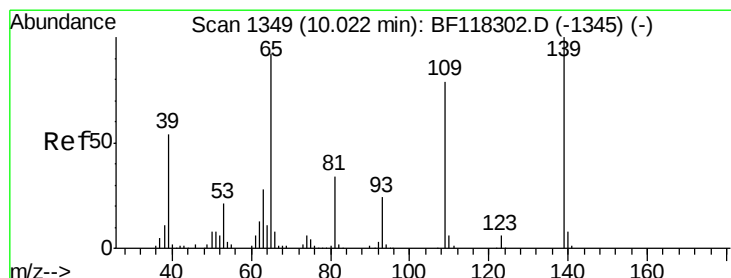
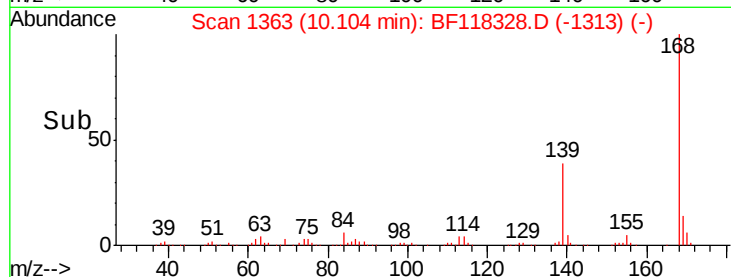
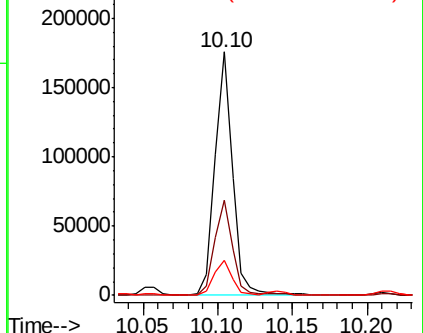
169 14.3 10.4 15.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 18.273 ng

RT: 10.10 min Scan# 1363

Delta R.T. 0.08 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

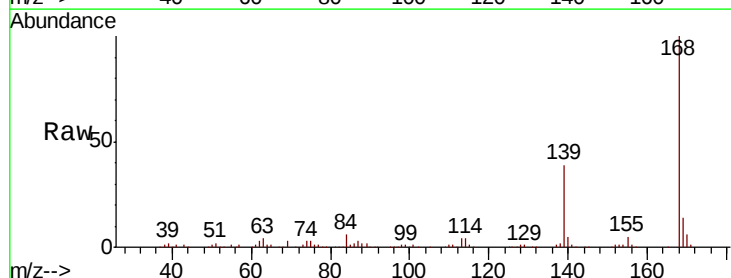
Tgt Ion:139 Resp: 58588

Ion Ratio Lower Upper

139 100

109 1.2 59.3 99.3#

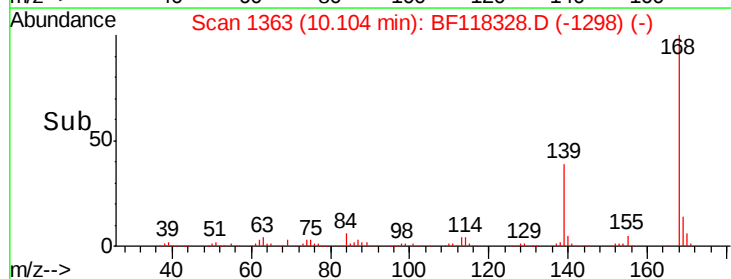
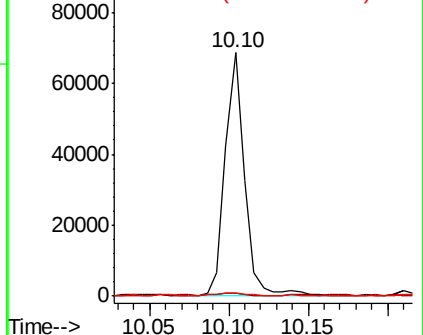
65 1.4 72.4 112.4#

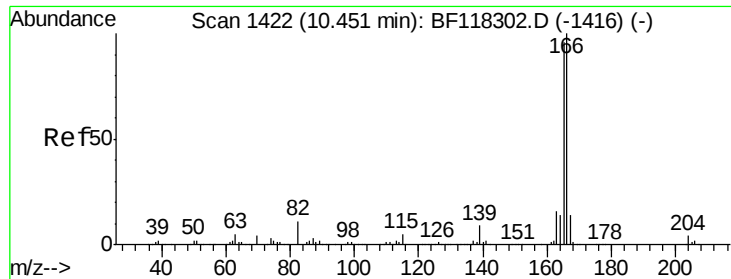


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

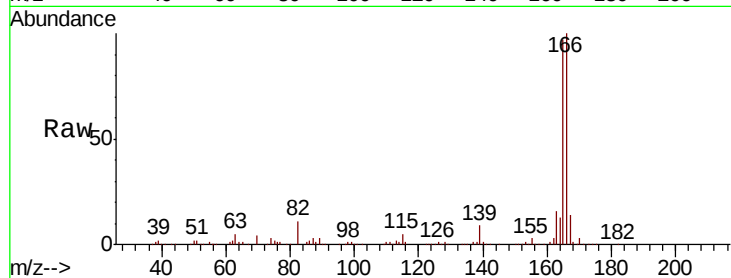




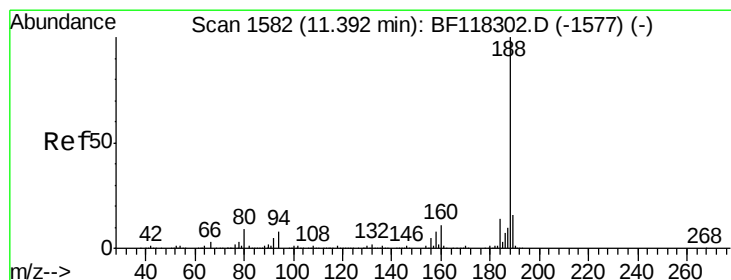
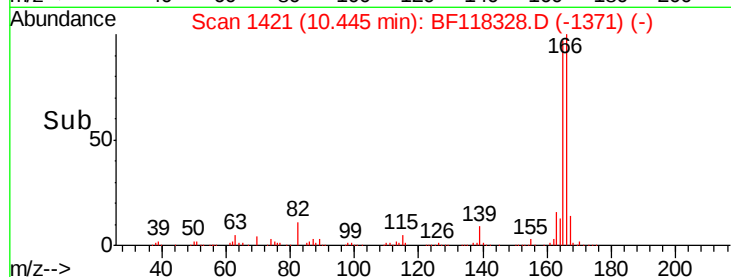
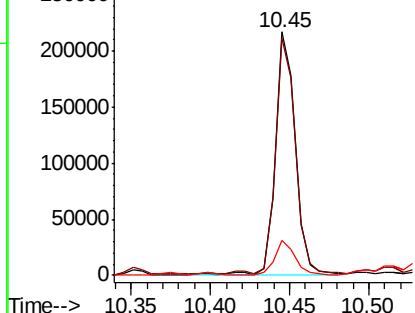
#58  
 Fluorene  
 Concen: 10.094 ng  
 RT: 10.45 min Scan# 1421  
 Delta R.T. -0.01 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.4  | 77.0  | 115.4 |
| 167     | 14.3  | 10.9  | 16.3  |

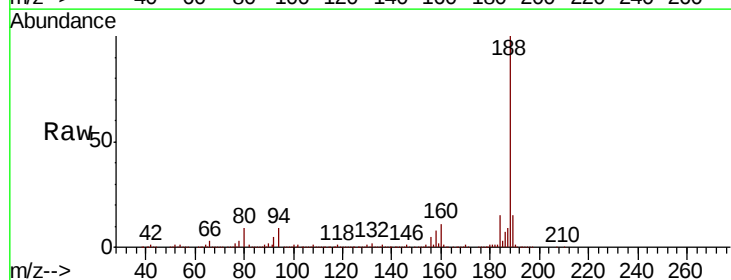


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

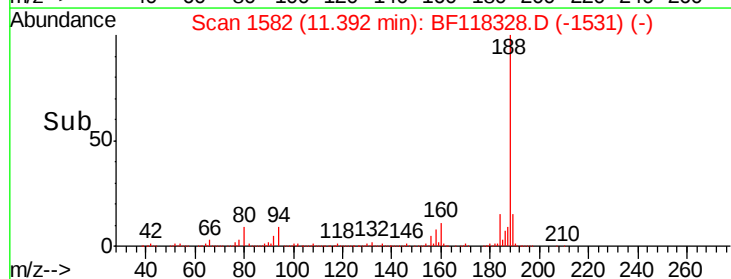
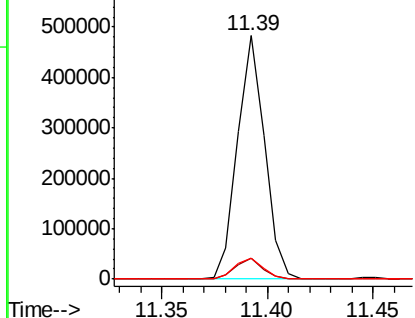


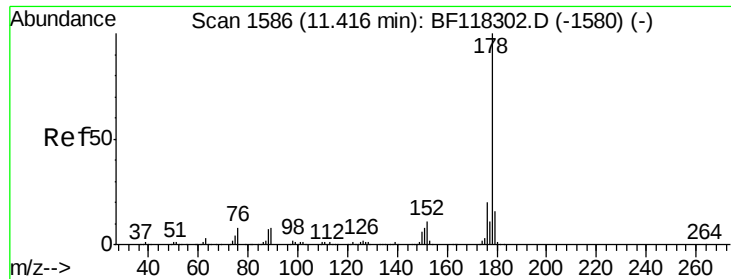
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.39 min Scan# 1582  
 Delta R.T. 0.00 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 6.7   | 10.1  |
| 80      | 8.8   | 7.2   | 10.8  |



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

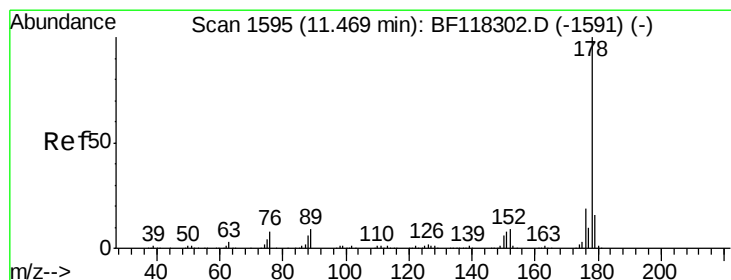
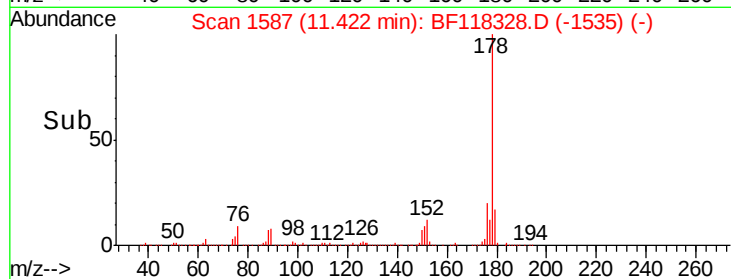
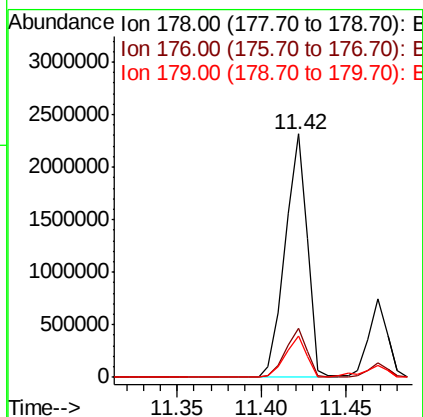
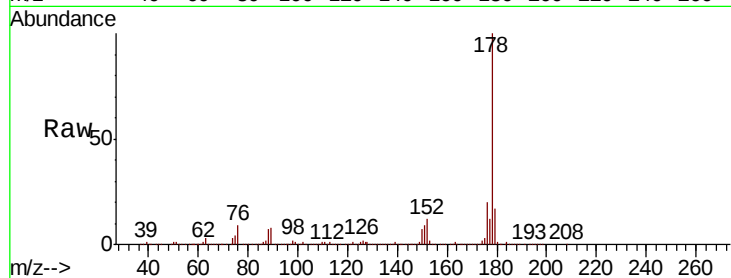




#71  
Phenanthrene  
Concen: 90.296 ng  
RT: 11.42 min Scan# 1587  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

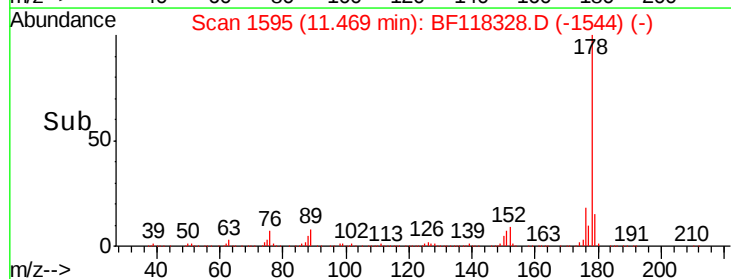
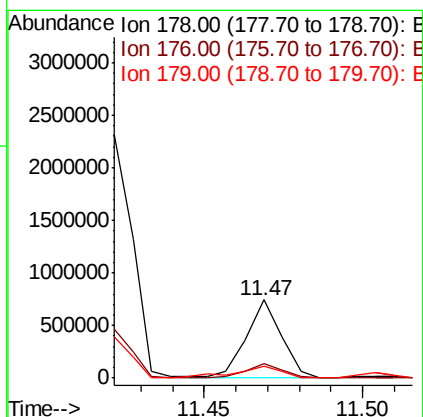
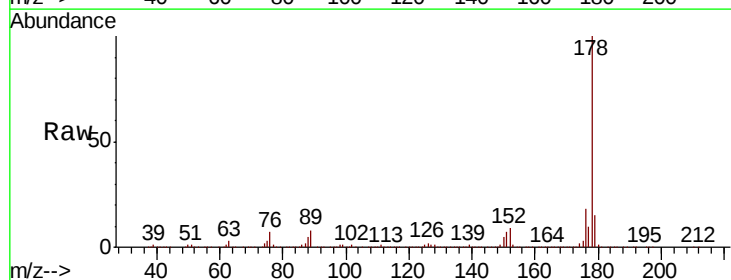
Instrument :  
BNA\_F  
ClientSampleId :

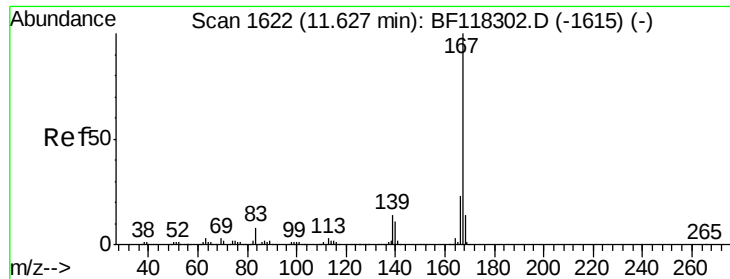
Tot Ion:178 Resp: 2117258  
Ion Ratio Lower Upper  
178 100  
176 20.1 15.6 23.4  
179 16.7 12.6 19.0



#72  
Anthracene  
Concen: 24.147 ng  
RT: 11.47 min Scan# 1595  
Delta R.T. 0.00 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:178 Resp: 566738  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.2 22.8  
179 14.9 12.9 19.3

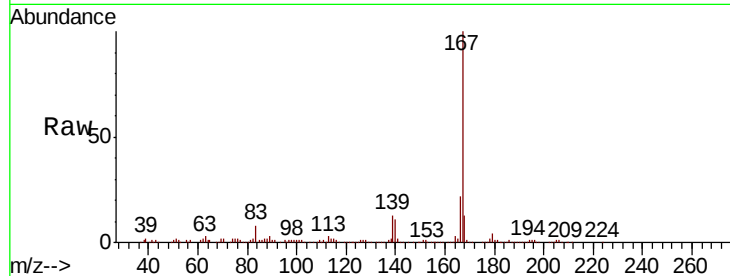




#73  
 Carbazole  
 Concen: 11.262 ng  
 RT: 11.62 min Scan# 1621  
 Delta R.T. -0.01 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 18.1  | 27.1  |
| 139     | 13.3  | 11.5  | 17.3  |

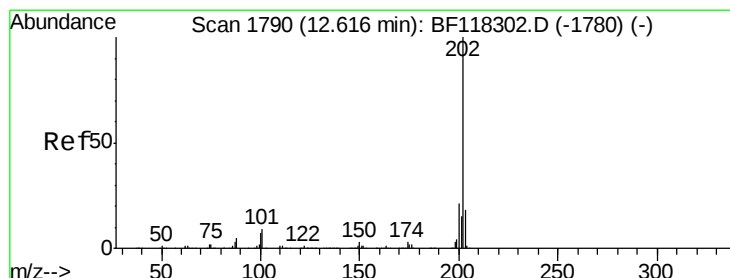
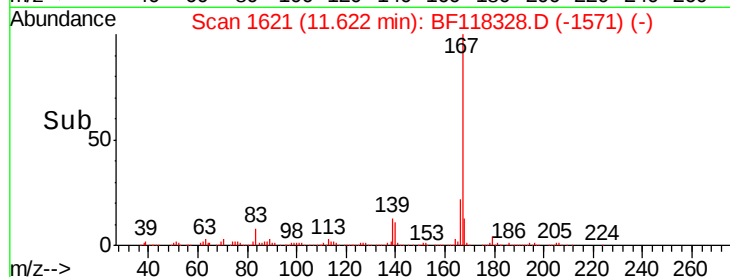
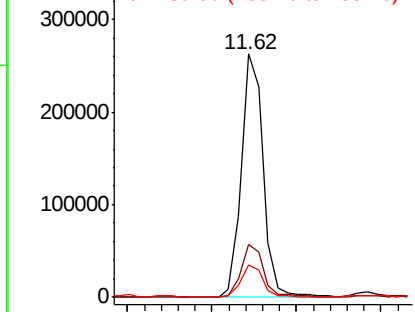


Abundance

Ion 167.00 (166.70 to 167.70): E

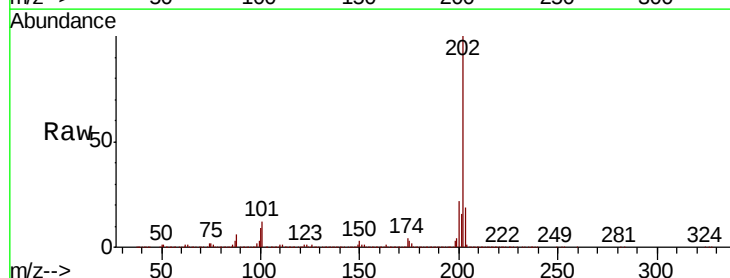
Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75  
 Fluoranthene  
 Concen: 108.187 ng  
 RT: 12.62 min Scan# 1791  
 Delta R.T. 0.01 min  
 Lab File: BF118328.D  
 Acq: 26 Dec 2019 20:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.3  | 0.0   | 29.5  |
| 203     | 18.8  | 0.0   | 37.6  |

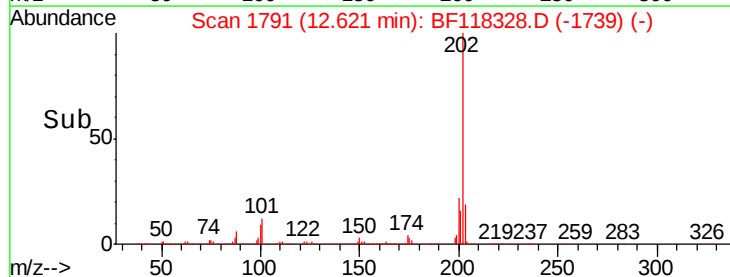
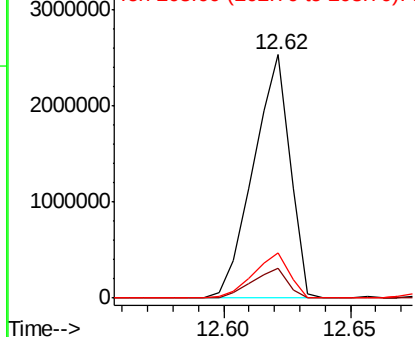


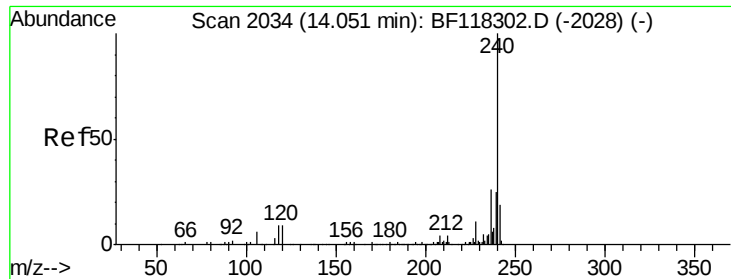
Abundance

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

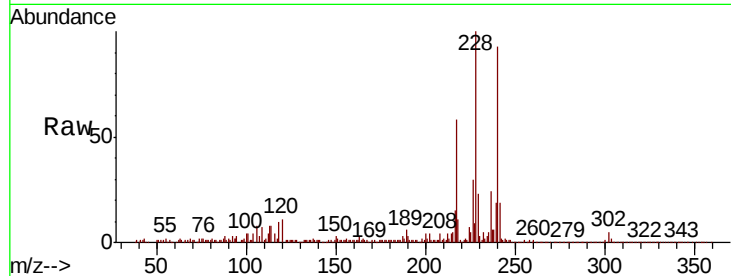




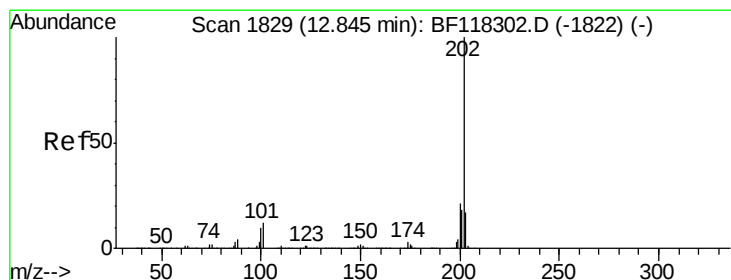
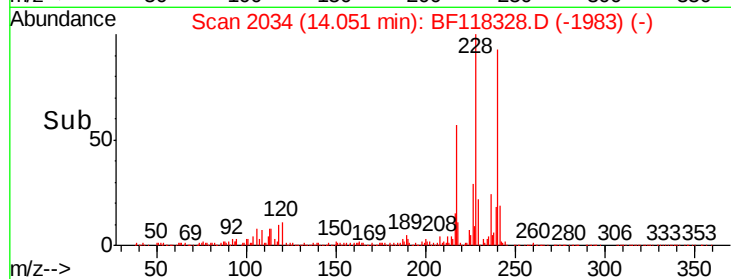
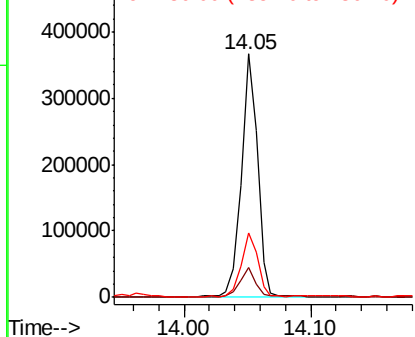
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. 0.00 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 319502  
Ion Ratio Lower Upper  
240 100  
120 12.3 7.1 10.7#  
236 26.2 21.0 31.6

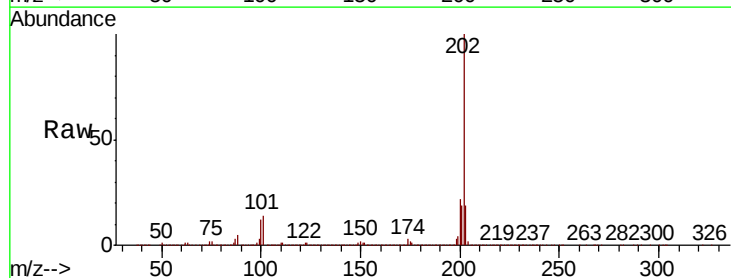


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

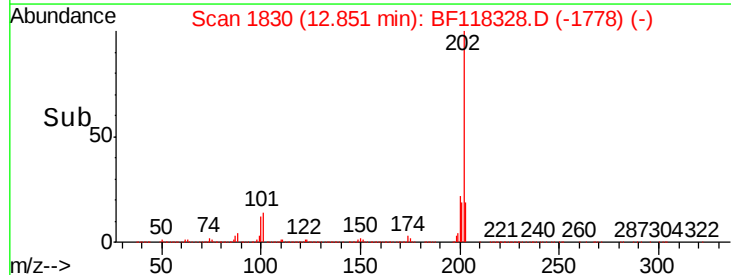
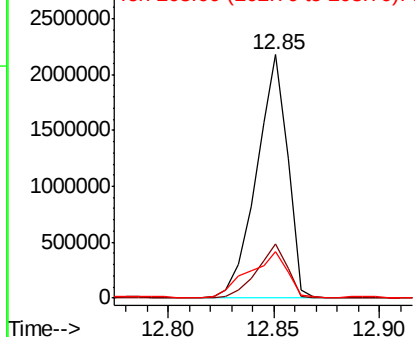


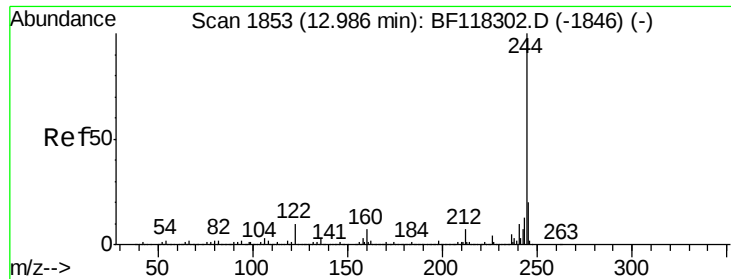
#78  
Pyrene  
Concen: 84.960 ng  
RT: 12.85 min Scan# 1830  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:202 Resp: 2216665  
Ion Ratio Lower Upper  
202 100  
200 22.1 16.8 25.2  
203 19.1 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: 21.685 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampleId :

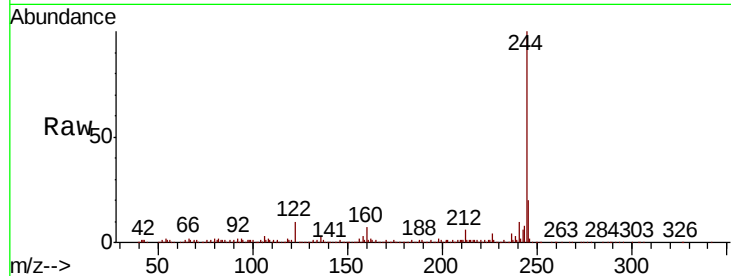
Tot Ion:244 Resp: 417609

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

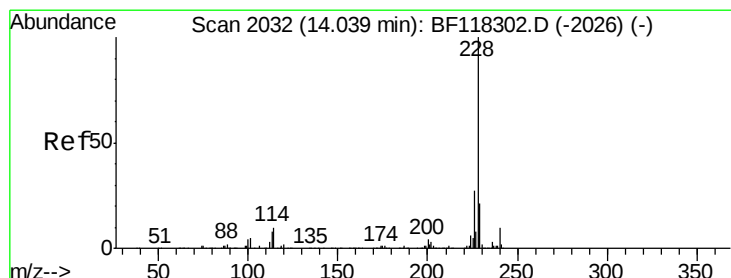
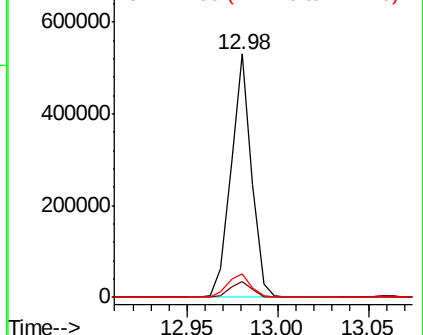
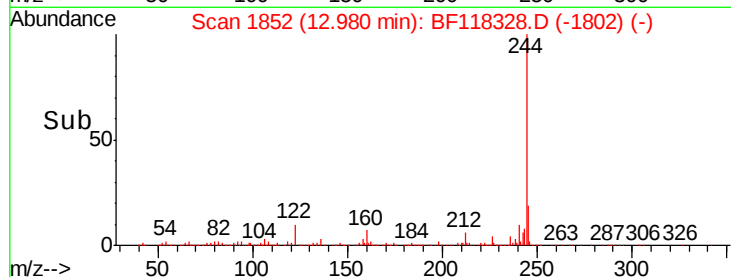
122 9.7 7.8 11.8



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: 58.474 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

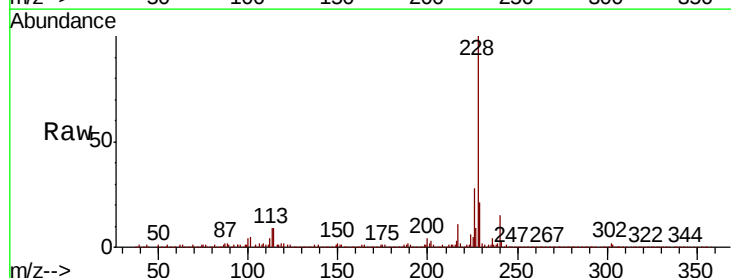
Tgt Ion:228 Resp: 1307716

Ion Ratio Lower Upper

228 100

226 28.5 22.0 33.0

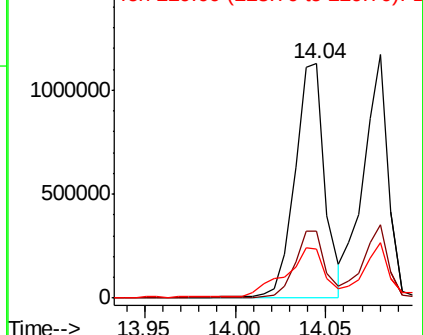
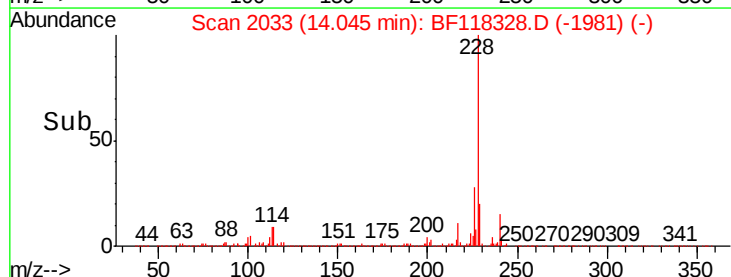
229 20.7 16.6 24.8

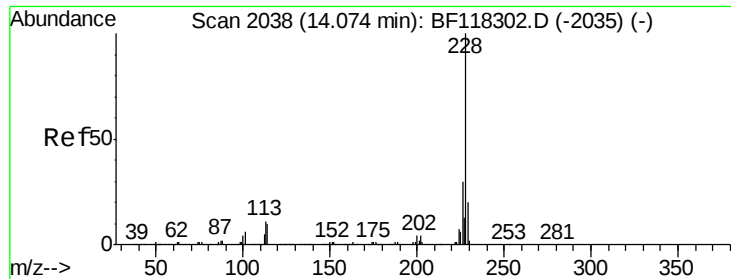


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 52.063 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.01 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

Instrument :

BNA\_F

ClientSampleId :

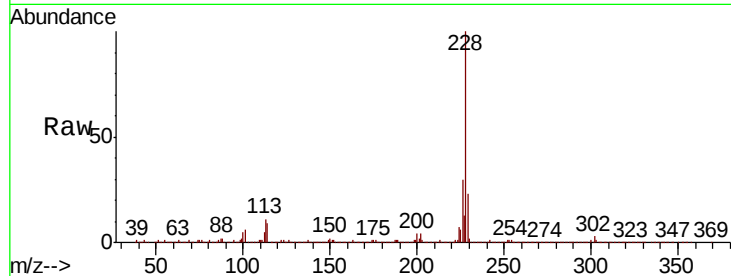
Tot Ion:228 Resp: 1114878

Ion Ratio Lower Upper

228 100

226 30.2 23.9 35.9

229 23.0 16.1 24.1

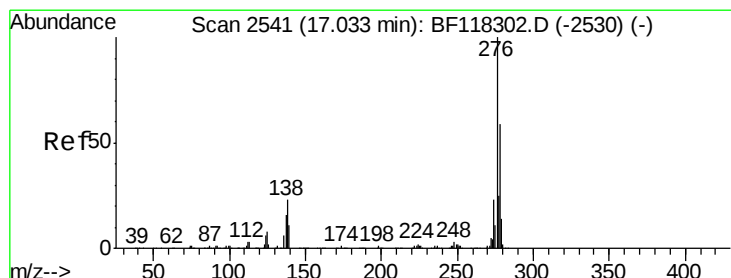
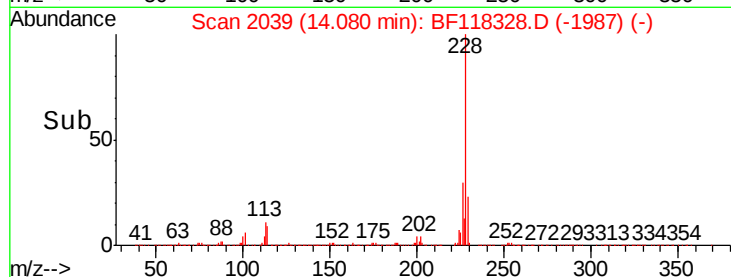
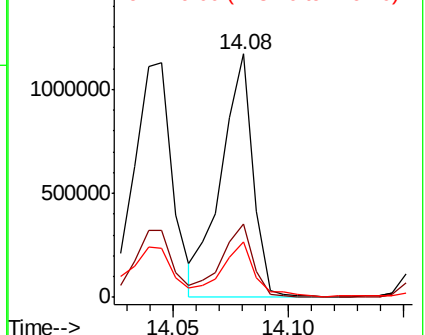


Abundance

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: 20.142 ng

RT: 17.05 min Scan# 2544

Delta R.T. 0.02 min

Lab File: BF118328.D

Acq: 26 Dec 2019 20:43

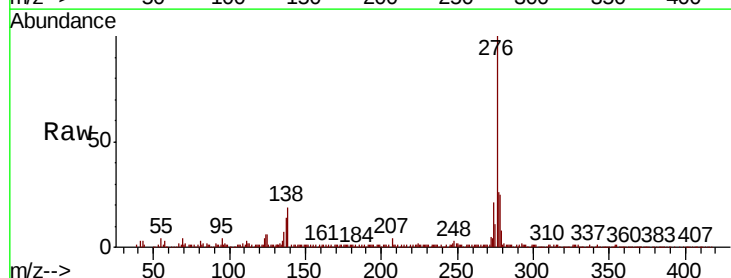
Tgt Ion:276 Resp: 367522

Ion Ratio Lower Upper

276 100

138 19.4 19.5 29.3#

277 24.7 20.6 30.8

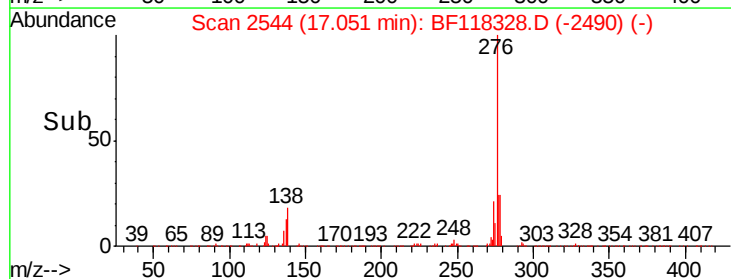
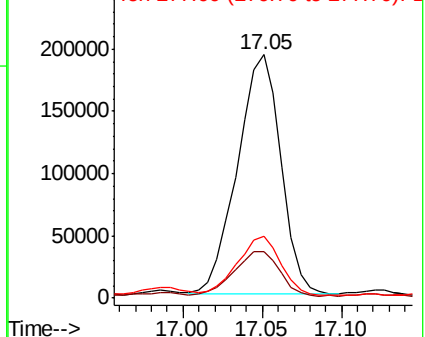


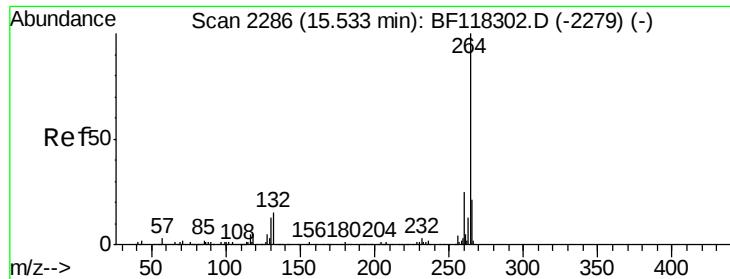
Abundance

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



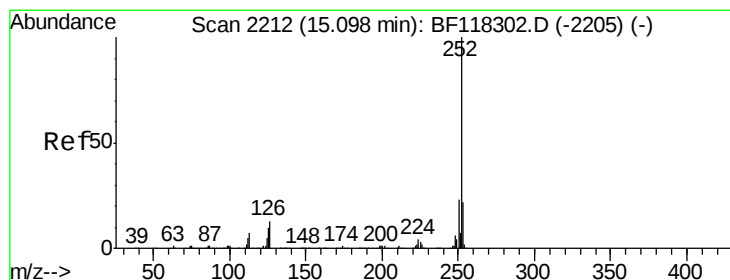
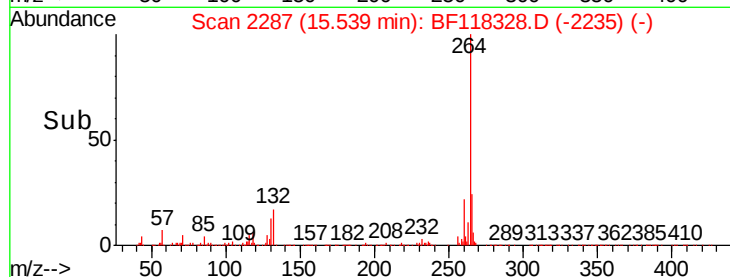
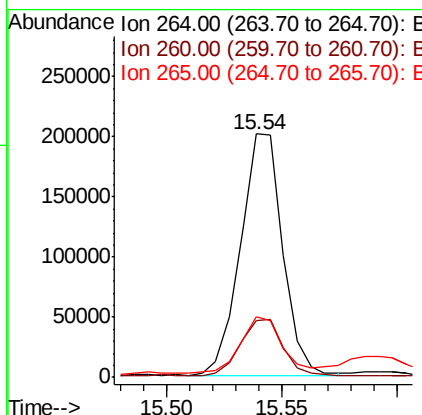
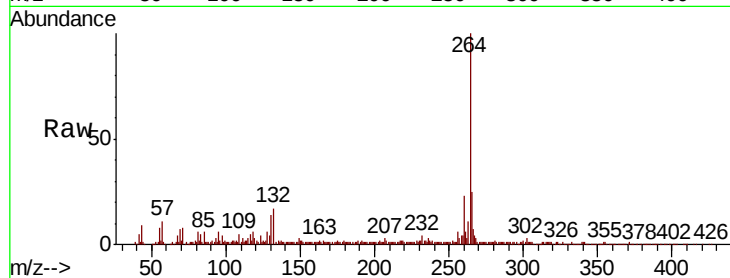


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 255982  

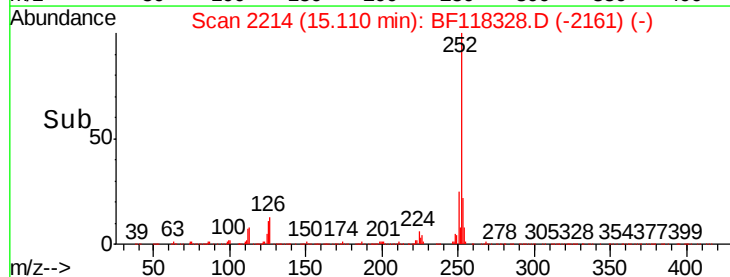
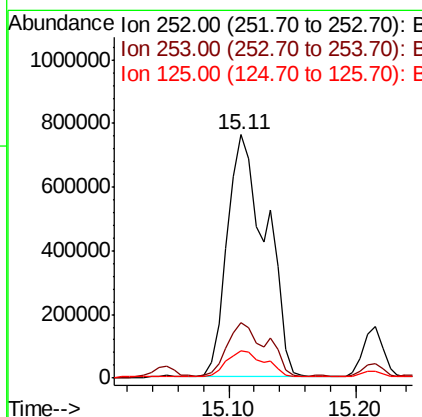
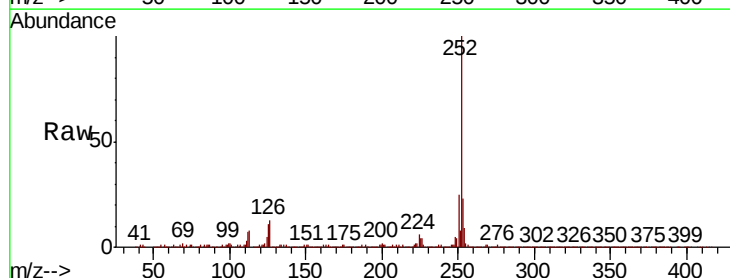
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 19.8  | 29.6  |
| 265 | 24.9  | 17.0  | 25.4  |

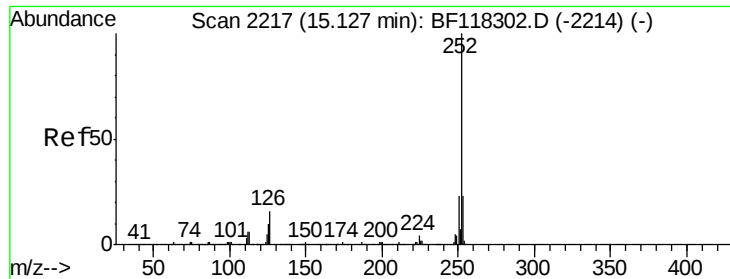


#88  
Benzo(b)fluoranthene  
Concen: 95.086 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:252 Resp: 1615706  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.9  | 17.5  | 26.3  |
| 125 | 11.1  | 7.7   | 11.5  |

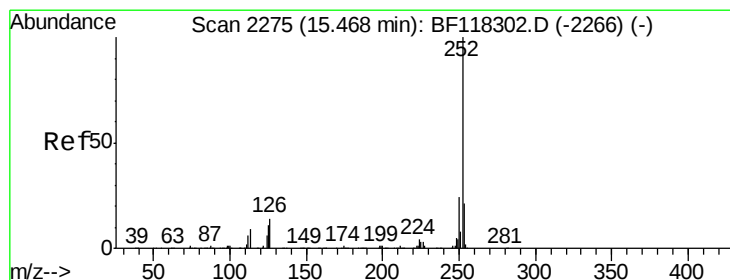
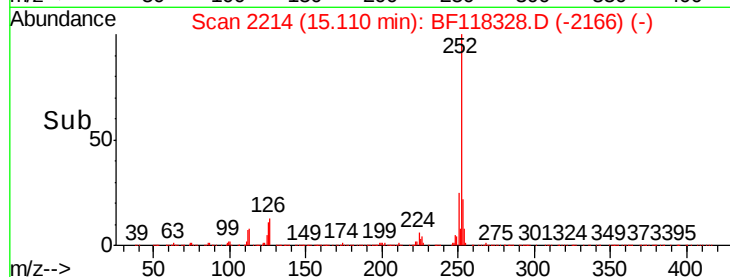
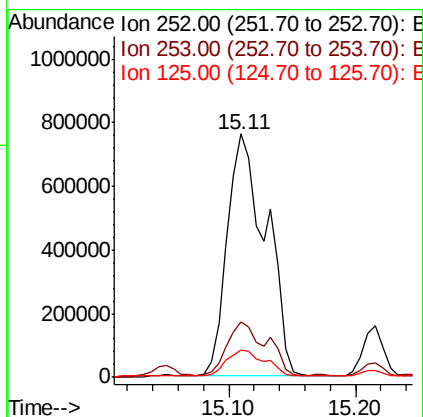
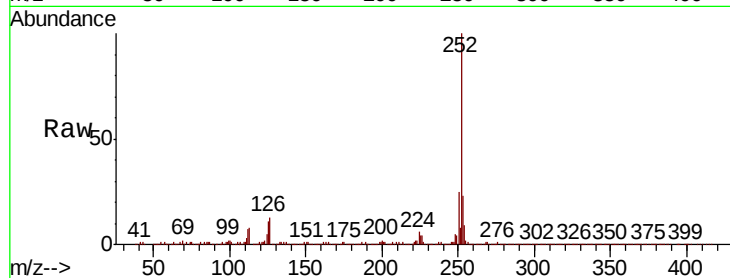




#89  
Benzo(k)fluoranthene  
Concen: 99.030 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.02 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

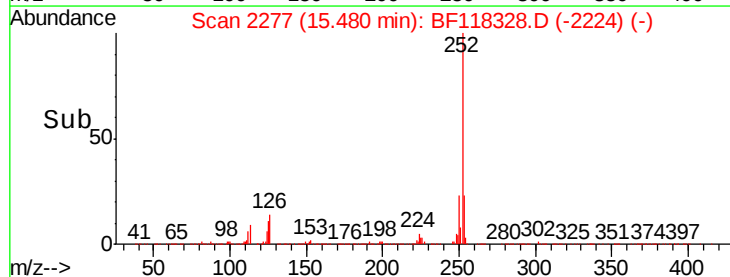
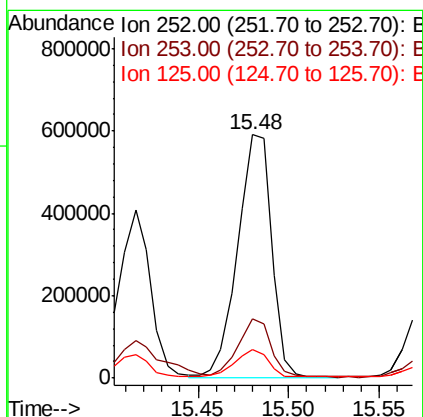
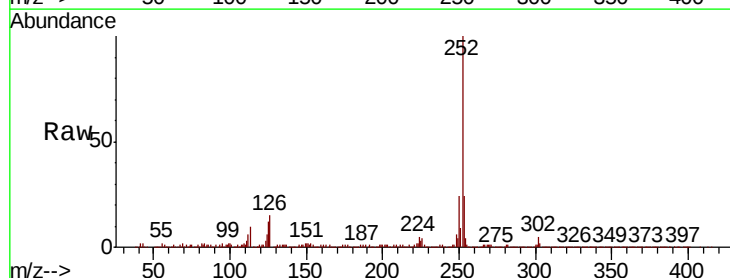
Instrument :  
BNA\_F  
ClientSampleId :

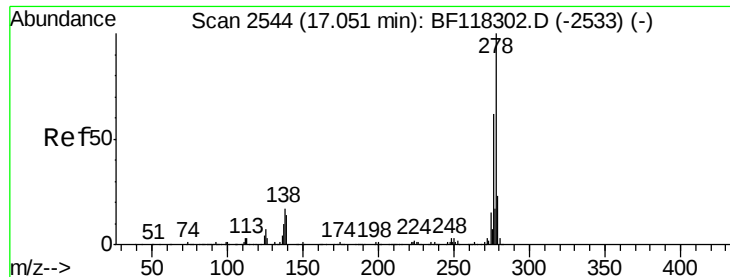
Tot Ion:252 Resp: 1615706  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.0 27.0  
125 11.1 8.0 12.0



#90  
Benzo(a)pyrene  
Concen: 51.154 ng  
RT: 15.48 min Scan# 2277  
Delta R.T. 0.01 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:252 Resp: 765698  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.0 25.6  
125 11.8 9.0 13.4

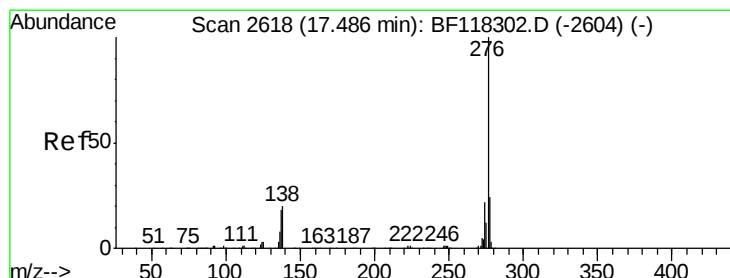
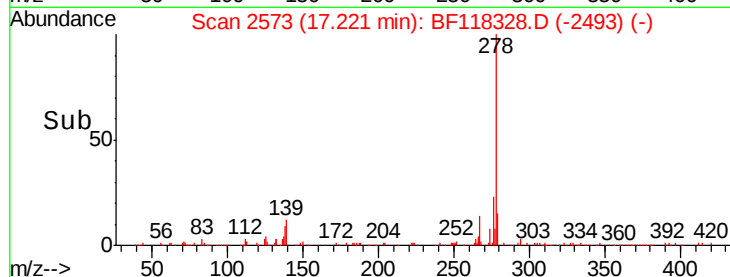
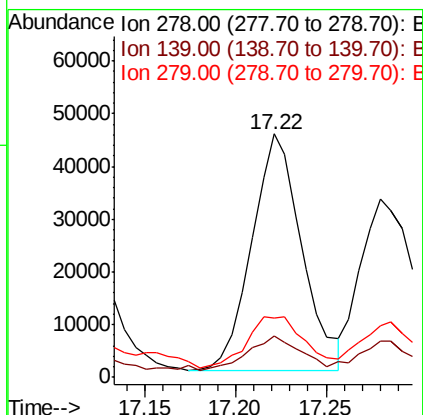
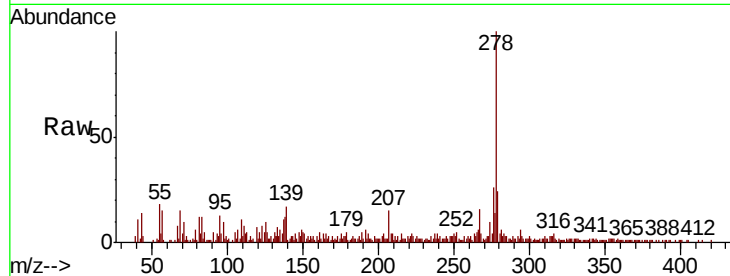




#91  
Dibenzo(a,h)anthracene  
Concen: 6.605 ng  
RT: 17.22 min Scan# 2573  
Delta R.T. 0.17 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:278 Resp: 85799  
Ion Ratio Lower Upper  
278 100  
139 17.0 11.5 17.3  
279 24.5 18.3 27.5



#92  
Benzo(g,h,i)perylene  
Concen: 27.006 ng  
RT: 17.51 min Scan# 2622  
Delta R.T. 0.02 min  
Lab File: BF118328.D  
Acq: 26 Dec 2019 20:43

Tgt Ion:276 Resp: 338862  
Ion Ratio Lower Upper  
276 100  
277 24.4 19.1 28.7  
138 20.4 16.1 24.1

