

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040119\  
 Data File : BF113463.D  
 Acq On : 1 Apr 2019 13:40  
 Operator : JU/SJ  
 Sample : K2115-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 01 18:02:46 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 01 14:33:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 136645   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.01  | 136  | 153037   | 20.00 | ng    | 0.02     |
| 39) Acenaphthene-d10      | 9.74  | 164  | 236980   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.22 | 188  | 328382   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.85 | 240  | 353281   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.25 | 264  | 387067   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 423028   | 50.62  | ng    | 0.02     |
| 7) Phenol-d6                | 6.37  | 99   | 310618   | 29.38  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 621279   | 240.96 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.53 | 330  | 273086   | 93.29  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.07  | 172  | 1094575  | 69.09  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.80 | 244  | 927127   | 57.84  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc     | Units | Qvalue |
|--------------------------------|-------|------|----------|----------|-------|--------|
| 3) Pyridine                    | 3.12  | 79   | 74459    | 7.123    | ng    | 98     |
| 6) Aniline                     | 6.38  | 93   | 238238   | 18.505   | ng    | # 72   |
| 9) Benzaldehyde                | 6.27  | 77   | 134041   | 18.894   | ng    | # 1    |
| 10) Phenol                     | 6.39  | 94   | 76719    | 6.357    | ng    | # 61   |
| 11) bis(2-Chloroethyl)ether    | 6.38  | 93   | 238238   | 25.751   | ng    | # 28   |
| 15) Benzyl Alcohol             | 6.92  | 79   | 30000    | 4.301    | ng    | # 1    |
| 17) 2-Methylphenol             | 6.98  | 107  | 95136    | 12.509   | ng    | 94     |
| 18) Hexachloroethane           | 7.25  | 117  | 88616    | 24.427   | ng    | # 1    |
| 20) 3+4-Methylphenols          | 7.15  | 107  | 301248   | 32.386   | ng    | # 86   |
| 22) Acetophenone               | 7.11  | 105  | 39534    | 11.328   | ng    | # 64   |
| 24) Nitrobenzene               | 7.28  | 77   | 28849    | 10.722   | ng    | # 1    |
| 25) Isophorone                 | 7.28  | 82   | 527158   | 105.499  | ng    | # 65   |
| 27) 2,4-Dimethylphenol         | 7.71  | 122  | 433389   | 211.845  | ng    | 97     |
| 31) Naphthalene                | 8.05  | 128  | 10131931 | 1354.799 | ng    | 94     |
| 32) Benzoic acid               | 7.86  | 122  | 418448   | 254.104  | ng    | # 15   |
| 33) 4-Chloroaniline            | 8.05  | 127  | 2134097  | 731.797  | ng    | # 34   |
| 35) Caprolactam                | 8.66  | 113  | 2903     | 4.080    | ng    | # 60   |
| 36) 4-Chloro-3-methylphenol    | 8.58  | 107  | 13388    | 6.004    | ng    | # 29   |
| 37) 2-Methylnaphthalene        | 8.73  | 142  | 3526959  | 755.826  | ng    | 96     |
| 38) 1-Methylnaphthalene        | 8.73  | 142  | 3526959  | 785.796  | ng    | 97     |
| 46) 1,1'-Biphenyl              | 9.17  | 154  | 1163448  | 58.782   | ng    | 100    |
| 48) 2-Nitroaniline             | 9.26  | 65   | 14277    | 2.985    | ng    | # 26   |
| 49) Acenaphthylene             | 9.60  | 152  | 135583   | 5.502    | ng    | # 88   |
| 50) Dimethylphthalate          | 9.47  | 163  | 53371    | 3.039    | ng    | # 94   |
| 52) Acenaphthene               | 9.79  | 154  | 1844638  | 132.935  | ng    | 99     |
| 54) 2,4-Dinitrophenol          | 9.90  | 184  | 9226     | 4.682    | ng    | # 1    |
| 55) Dibenzofuran               | 9.96  | 168  | 2115276  | 101.400  | ng    | 98     |
| 56) 4-Nitrophenol              | 9.96  | 139  | 794990   | 249.575  | ng    | # 14   |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 19544    | 3.879    | ng    | # 1    |
| 58) Fluorene                   | 10.29 | 166  | 938355   | 57.903   | ng    | 99     |
| 63) Azobenzene                 | 10.41 | 77   | 56116    | 3.460    | ng    | # 44   |
| 65) 4,6-Dinitro-2-methylphenol | 10.36 | 198  | 6955     | 3.872    | ng    | # 1    |
| 66) n-Nitrosodiphenylamine     | 10.35 | 169  | 93278    | 9.257    | ng    | 90     |
| 67) 4-Bromophenyl-phenylether  | 10.53 | 248  | 15587    | 4.355    | ng    | # 1    |

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040119\  
Data File : BF113463.D  
Acq On : 1 Apr 2019 13:40  
Operator : JU/SJ  
Sample : K2115-02  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

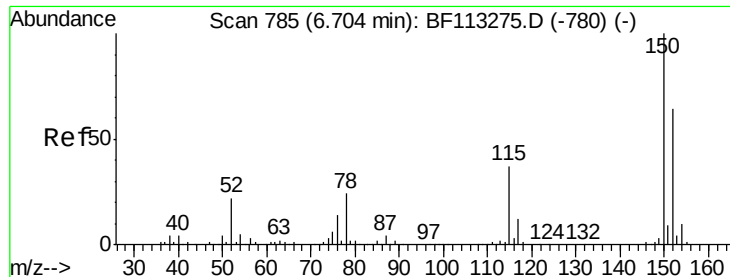
Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Apr 01 18:02:46 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF032519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 01 14:33:20 2019  
Response via : Initial Calibration

| Internal Standards | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------|-------|------|----------|--------|-------|----------|
| 71) Phenanthrene   | 11.25 | 178  | 1018501  | 62.456 | ng    | 100      |
| 72) Anthracene     | 11.30 | 178  | 71540    | 4.319  | ng    | 96       |
| 73) Carbazole      | 11.46 | 167  | 922950   | 58.393 | ng    | 99       |
| 75) Fluoranthene   | 12.43 | 202  | 41103    | 2.230  | ng    | 97       |

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



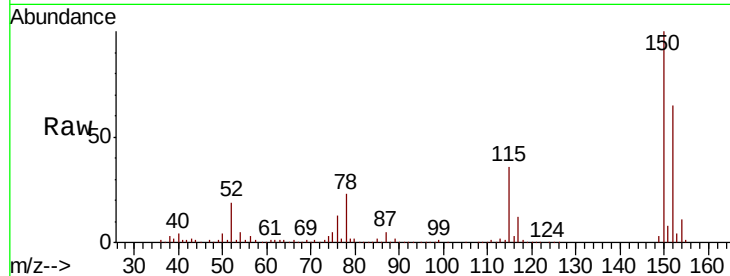


#1

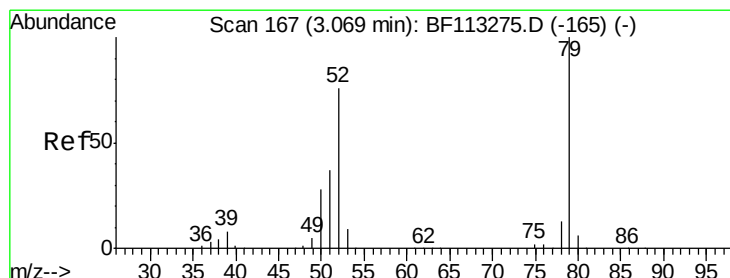
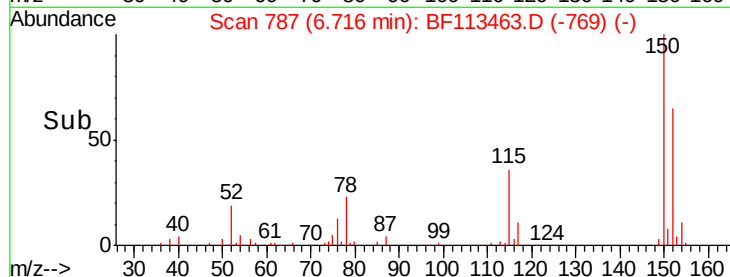
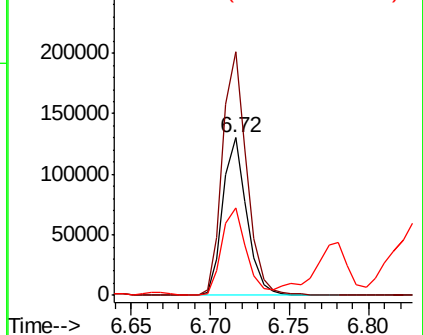
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 787  
 Delta R.T. 0.01 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 136645  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 123.6 185.4  
 115 56.0 45.8 68.6



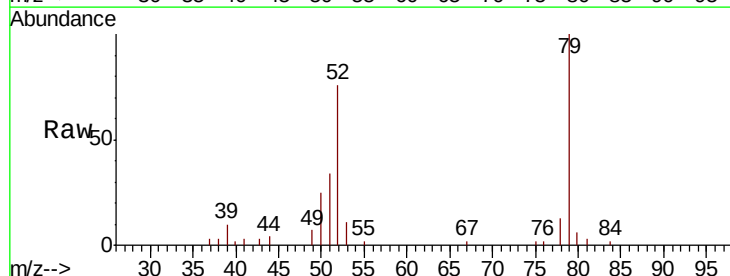
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



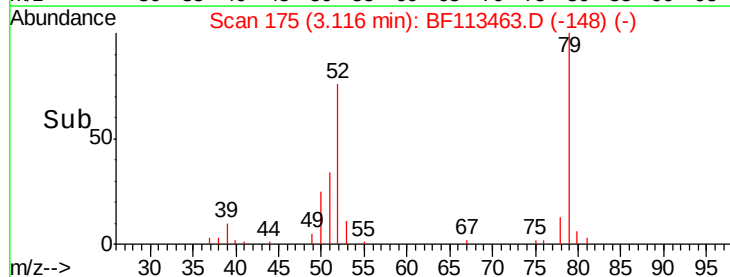
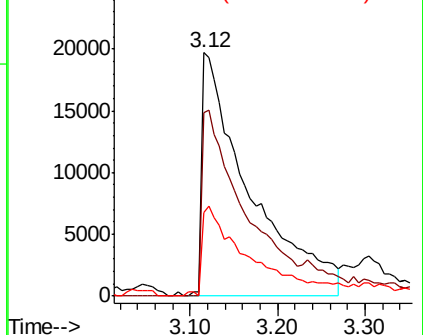
#3

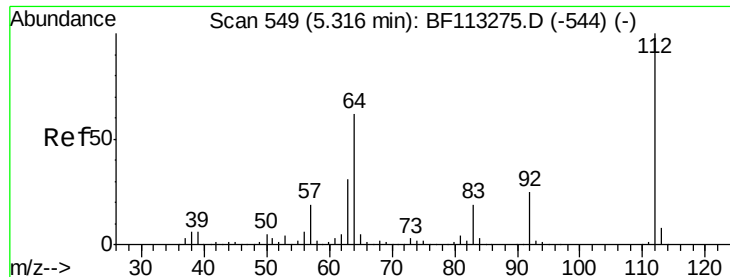
Pyridine  
 Concen: 7.123 ng  
 RT: 3.12 min Scan# 175  
 Delta R.T. 0.06 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Tgt Ion: 79 Resp: 74459  
 Ion Ratio Lower Upper  
 79 100  
 52 75.5 61.4 92.2  
 51 34.2 29.4 44.2



Abundance Ion 79.00 (78.70 to 79.70): BF1  
 Ion 52.00 (51.70 to 52.70): BF1  
 Ion 51.00 (50.70 to 51.70): BF1





#5

2-Fluorophenol

Concen: 50.620 ng

RT: 5.35 min Scan# 554

Delta R.T. 0.02 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

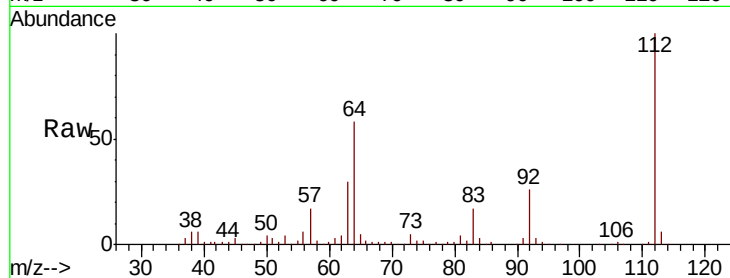
Tot Ion:112 Resp: 423028

Ion Ratio Lower Upper

112 100

64 58.2 47.7 71.5

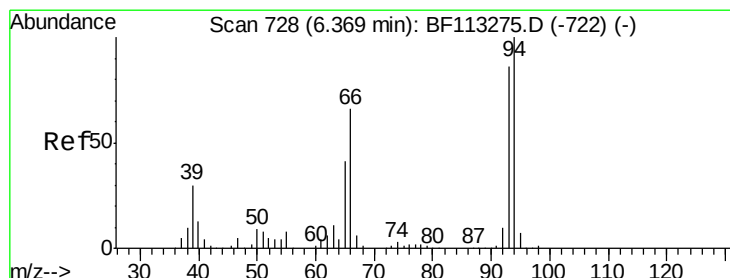
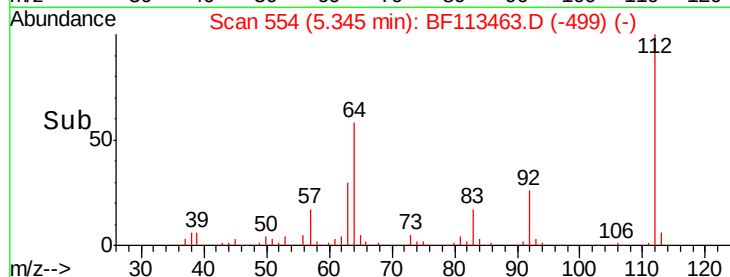
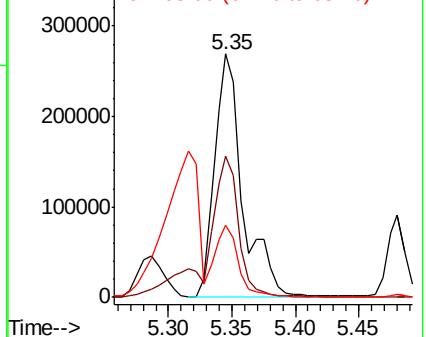
63 29.7 23.8 35.6



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



#6

Aniline

Concen: 18.505 ng

RT: 6.38 min Scan# 730

Delta R.T. 0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

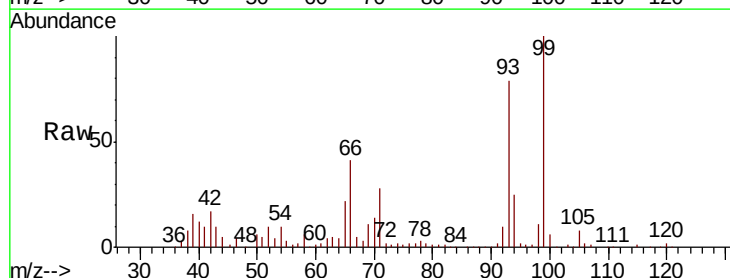
Tgt Ion: 93 Resp: 238238

Ion Ratio Lower Upper

93 100

66 51.1 59.8 89.6#

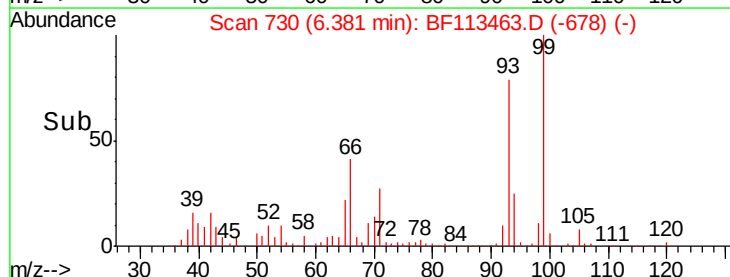
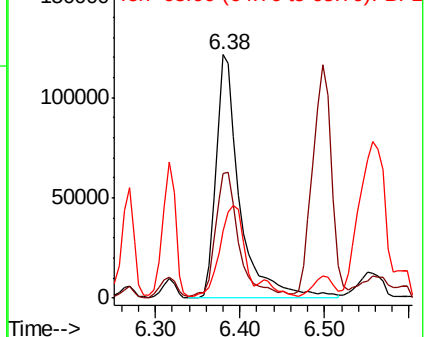
65 27.6 37.4 56.2#

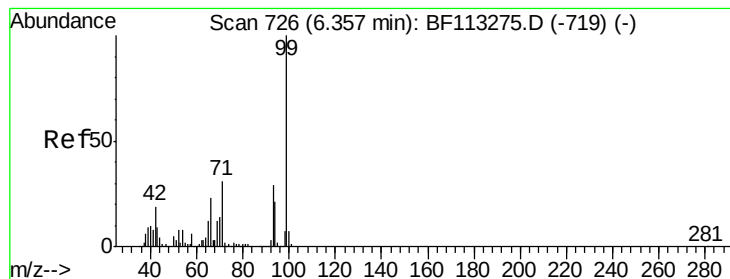


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 29.381 ng

RT: 6.37 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

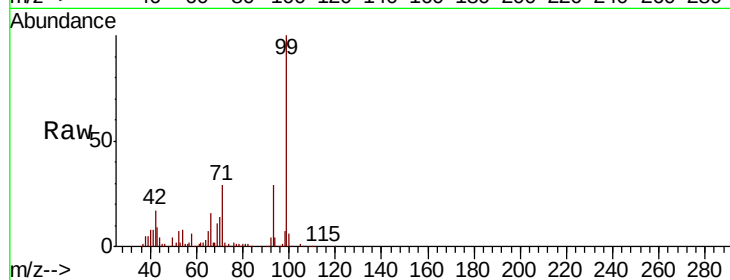
Tot Ion: 99 Resp: 310618

Ion Ratio Lower Upper

99 100

42 17.4 14.4 21.6

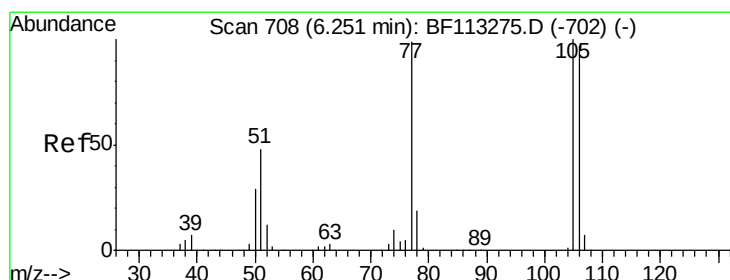
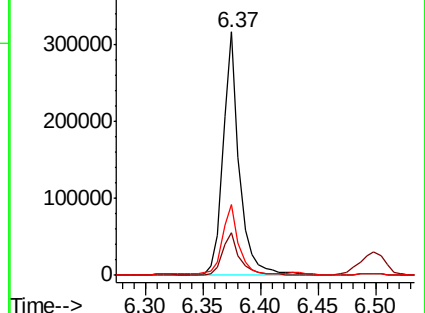
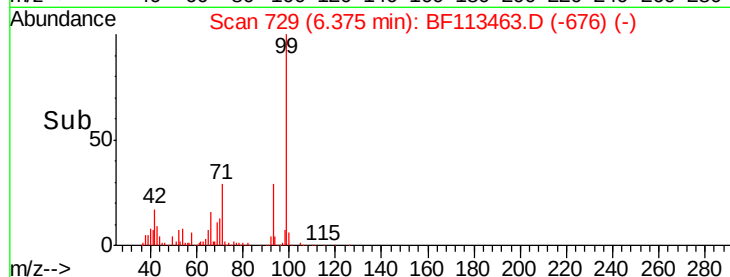
71 29.2 25.0 37.6



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



#9

Benzaldehyde

Concen: 18.894 ng

RT: 6.27 min Scan# 711

Delta R.T. 0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

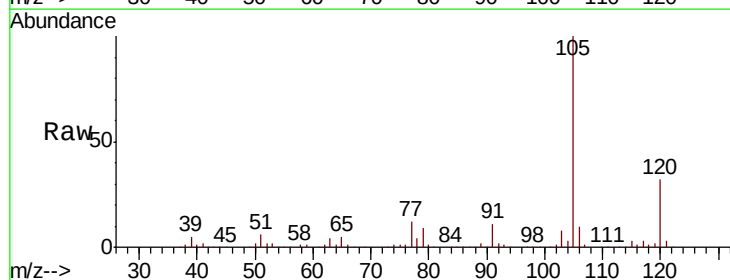
Tgt Ion: 77 Resp: 134041

Ion Ratio Lower Upper

77 100

105 808.9 81.1 121.1#

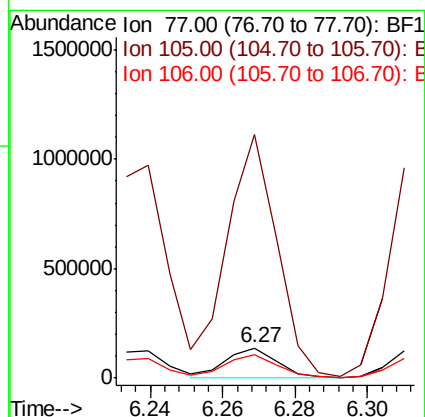
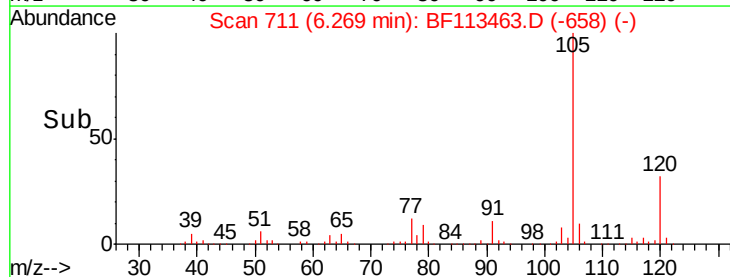
106 79.7 76.9 116.9

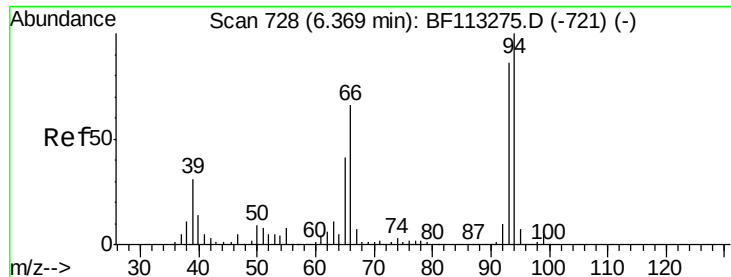


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

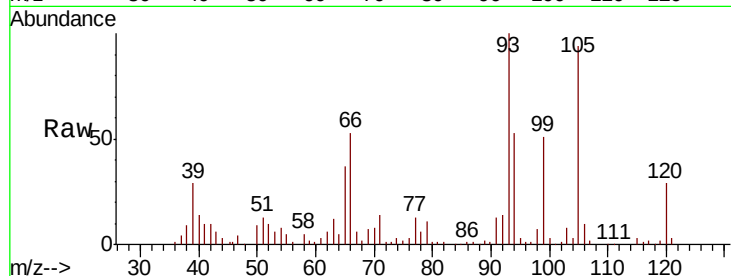




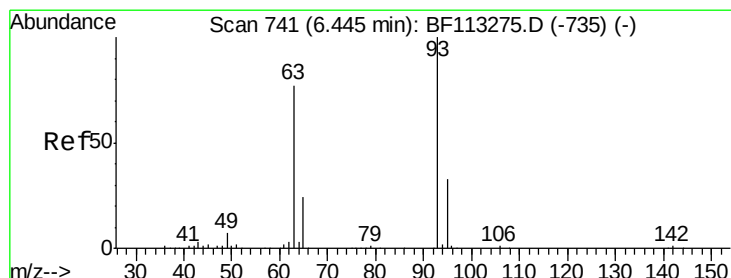
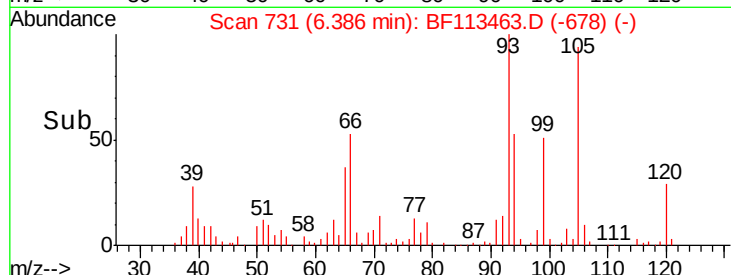
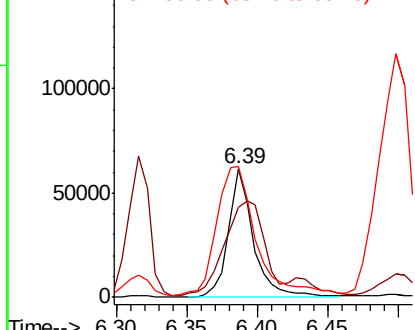
#10  
Phenol  
Concen: 6.357 ng  
RT: 6.39 min Scan# 731  
Delta R.T. 0.01 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 94 Resp: 76719  
Ion Ratio Lower Upper  
94 100  
65 69.5 23.7 63.7#  
66 101.3 49.7 89.7#

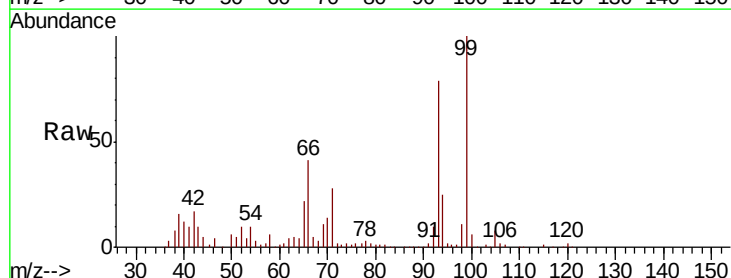


Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

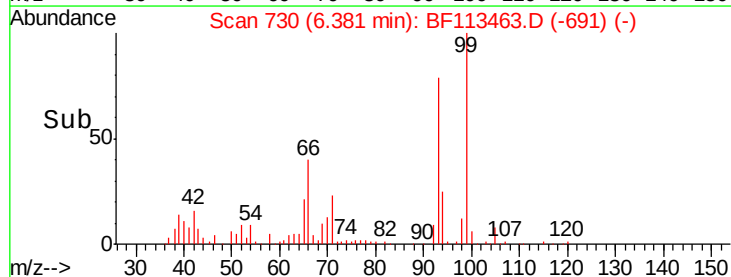
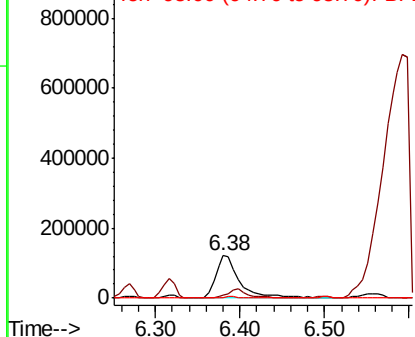


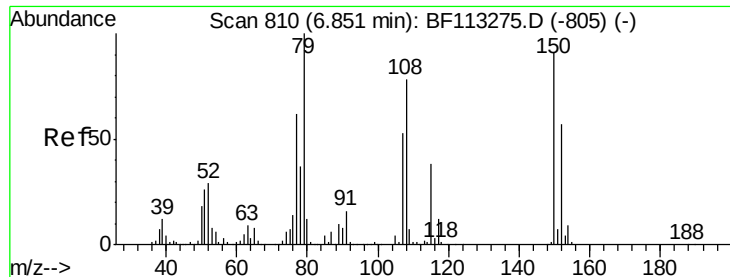
#11  
bis(2-Chloroethyl)ether  
Concen: 25.751 ng  
RT: 6.38 min Scan# 730  
Delta R.T. -0.07 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion: 93 Resp: 238238  
Ion Ratio Lower Upper  
93 100  
63 6.9 55.7 95.7#  
95 2.3 12.4 52.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1





#15

Benzyl Alcohol

Concen: 4.301 ng

RT: 6.92 min Scan# 821

Delta R.T. 0.05 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampled :

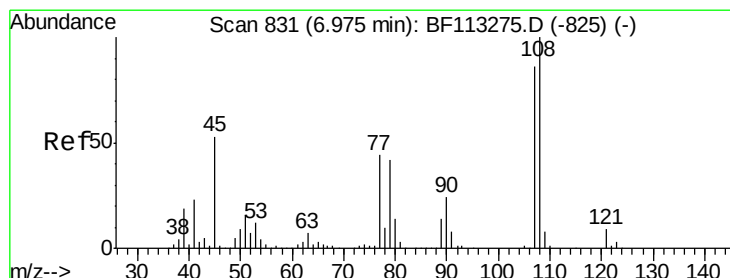
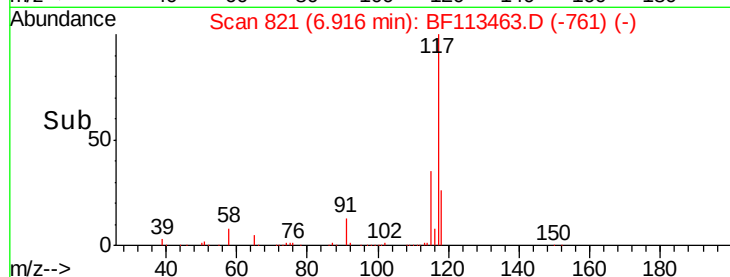
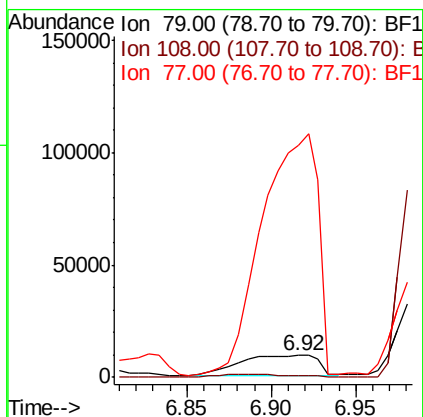
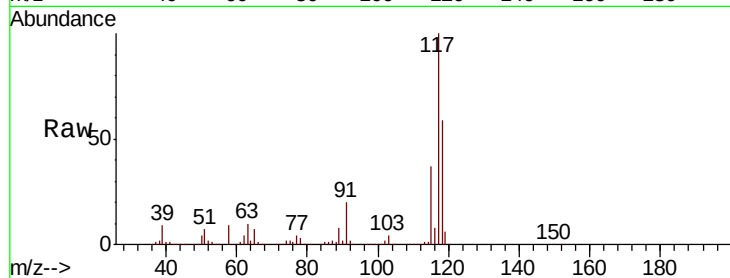
Tot Ion: 79 Resp: 30000

Ion Ratio Lower Upper

79 100

108 5.9 62.8 94.2#

77 1058.0 50.5 75.7#



#17

2-Methylphenol

Concen: 12.509 ng

RT: 6.98 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Tgt Ion:107 Resp: 95136

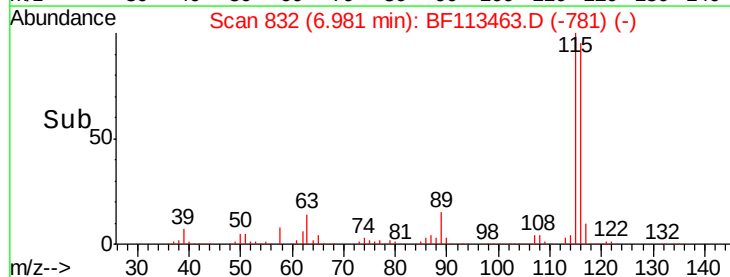
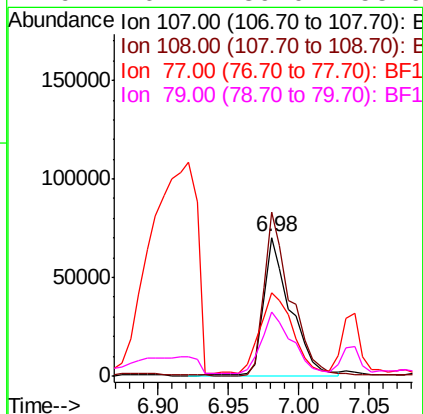
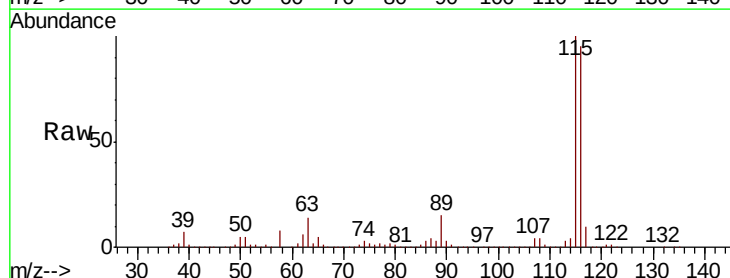
Ion Ratio Lower Upper

107 100

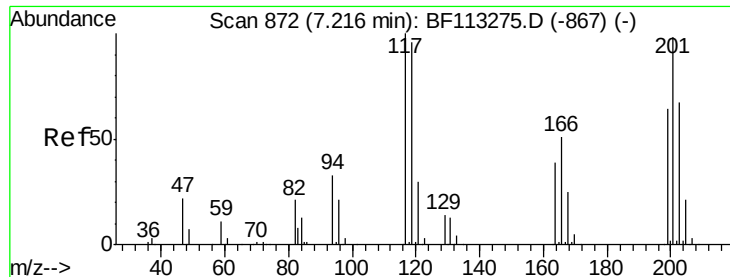
108 118.8 91.8 137.6

77 60.4 41.4 62.2

79 46.4 39.0 58.6



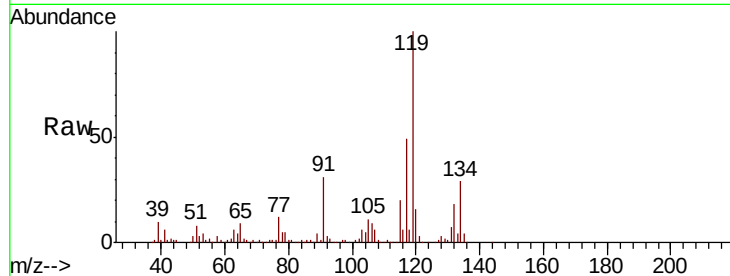




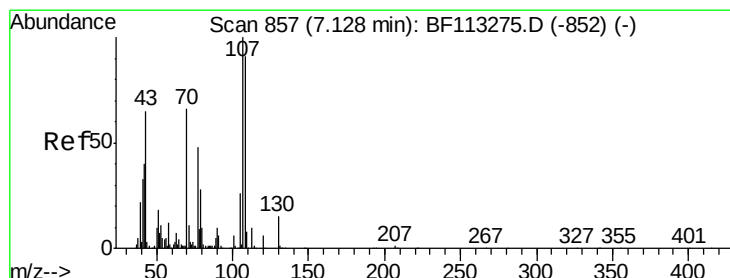
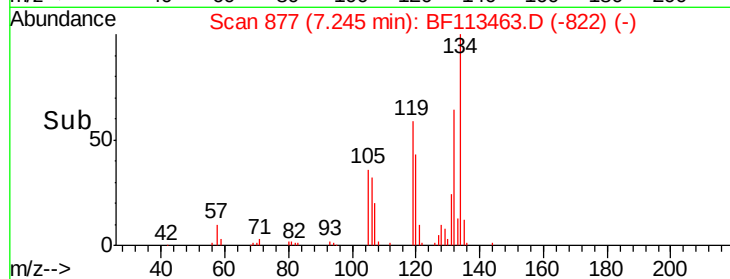
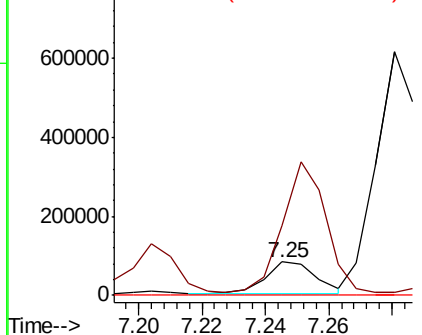
#18  
Hexachloroethane  
Concen: 24.427 ng  
RT: 7.25 min Scan# 877  
Delta R.T. 0.02 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:117 Resp: 88616  
Ion Ratio Lower Upper  
117 100  
119 206.1 77.8 116.6#  
201 0.0 79.4 119.0#



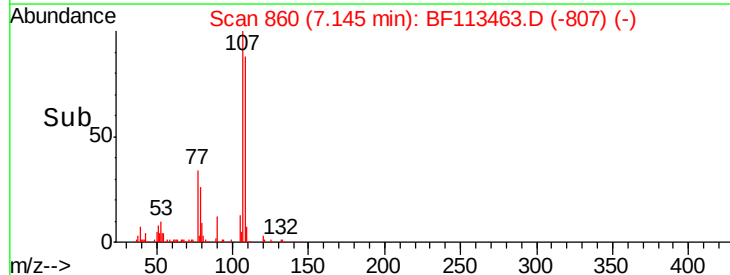
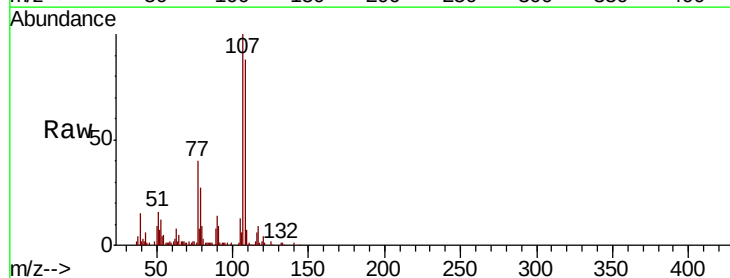
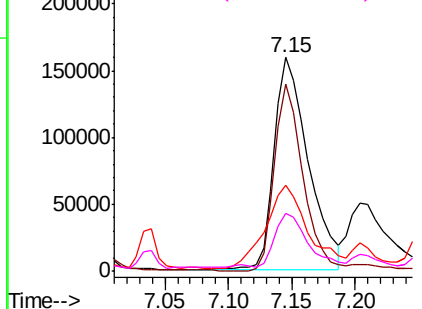
Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

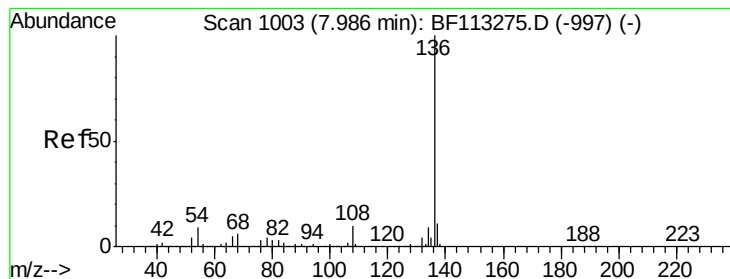


#20  
3+4-Methylphenols  
Concen: 32.386 ng  
RT: 7.15 min Scan# 860  
Delta R.T. 0.01 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion:107 Resp: 301248  
Ion Ratio Lower Upper  
107 100  
108 87.7 68.7 108.7  
77 40.0 49.3 89.3#  
79 26.7 6.5 46.5

Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. 0.02 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 153037

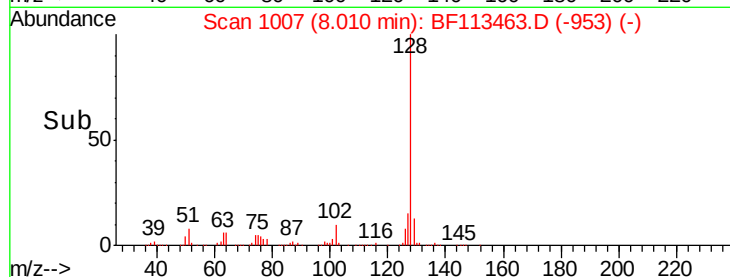
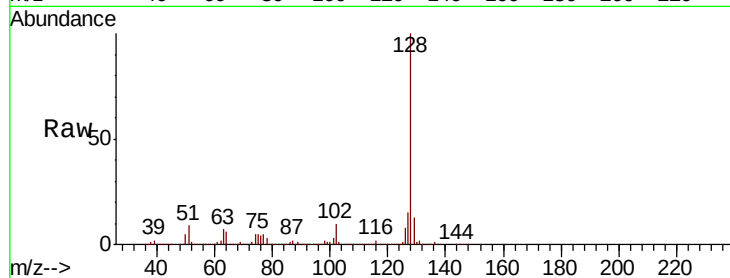
Ion Ratio Lower Upper

136 100

137 16.9 9.1 13.7#

54 10.0 6.9 10.3

68 12.9 5.1 7.7#



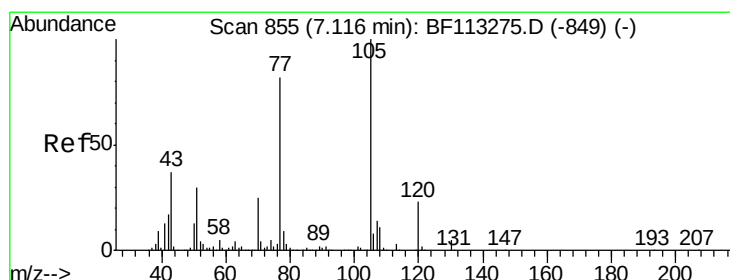
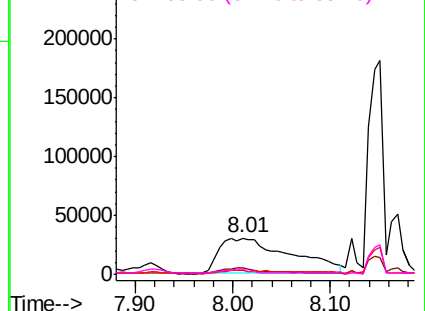
Abundance

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



#22

Acetophenone

Concen: 11.328 ng

RT: 7.11 min Scan# 854

Delta R.T. -0.02 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Tgt Ion:105 Resp: 39534

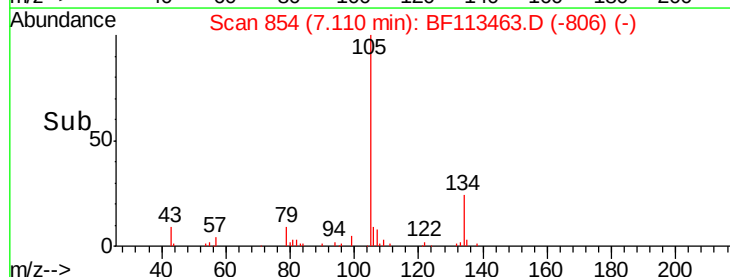
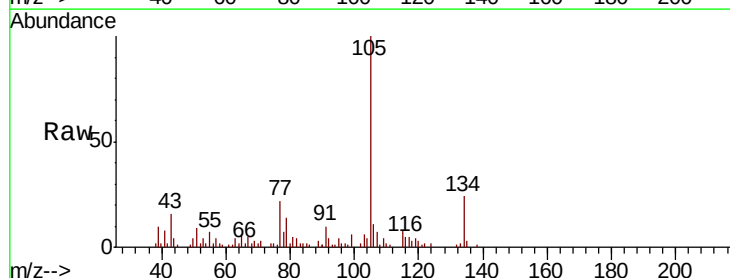
Ion Ratio Lower Upper

105 100

71 3.4 4.6 6.8#

51 9.1 23.0 34.6#

120 2.8 18.3 27.5#



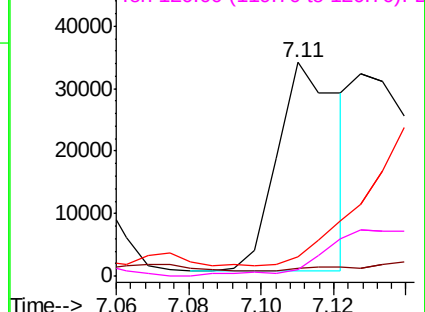
Abundance

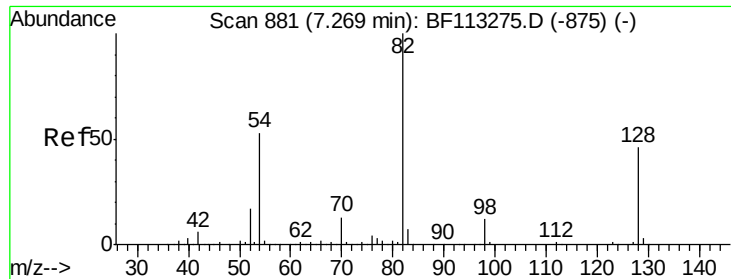
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

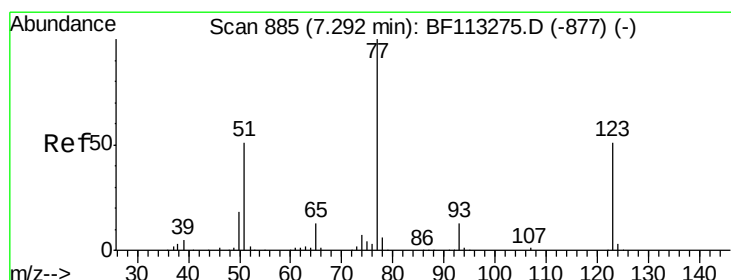
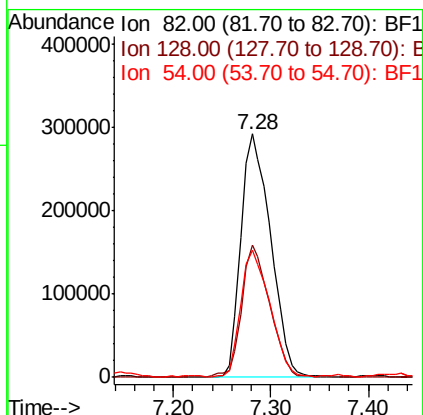
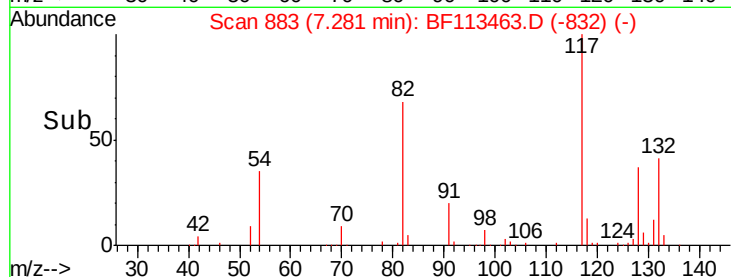
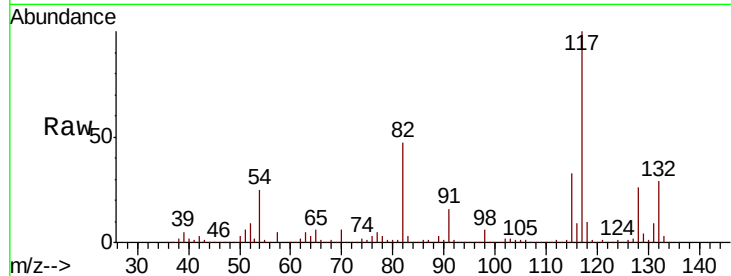




#23  
Nitrobenzene-d5  
Concen: 240.958 ng  
RT: 7.28 min Scan# 883  
Delta R.T. 0.00 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

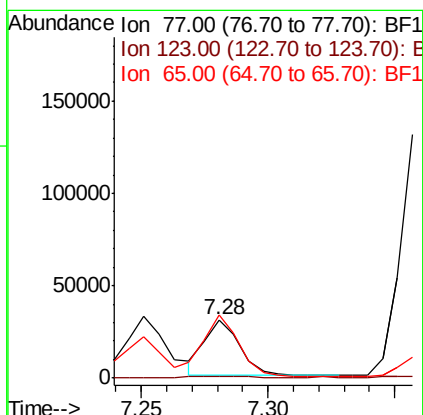
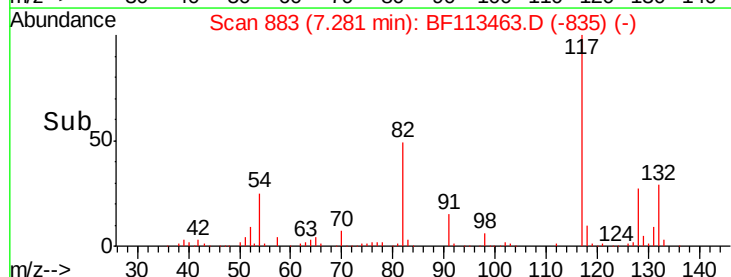
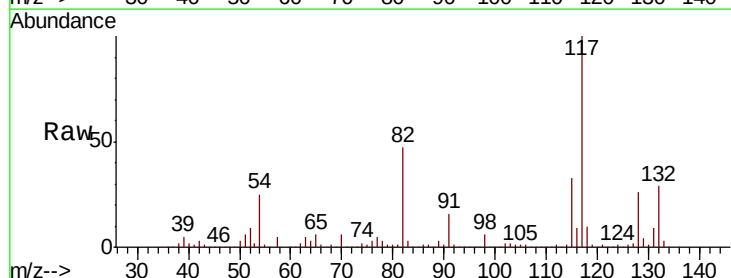
Instrument :  
BNA\_F  
ClientSampleId :

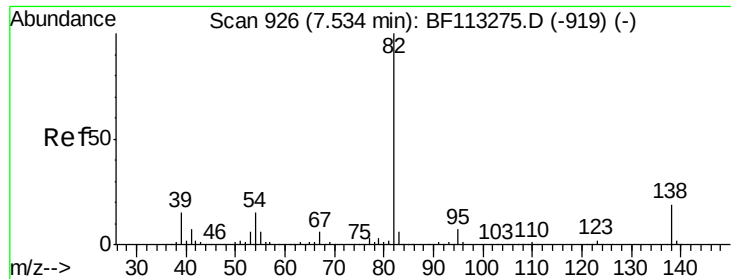
Tot Ion: 82 Resp: 621279  
Ion Ratio Lower Upper  
82 100  
128 54.5 37.9 56.9  
54 52.1 41.9 62.9



#24  
Nitrobenzene  
Concen: 10.722 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion: 77 Resp: 28849  
Ion Ratio Lower Upper  
77 100  
123 2.9 39.0 58.4#  
65 109.3 10.8 16.2#

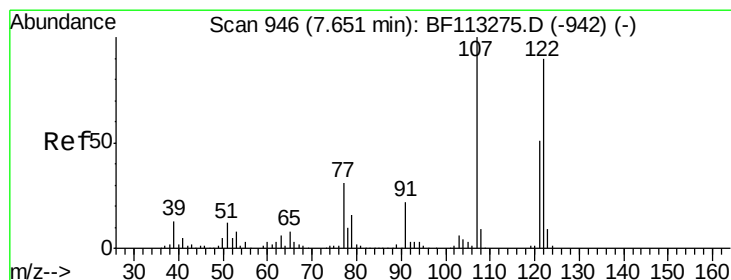
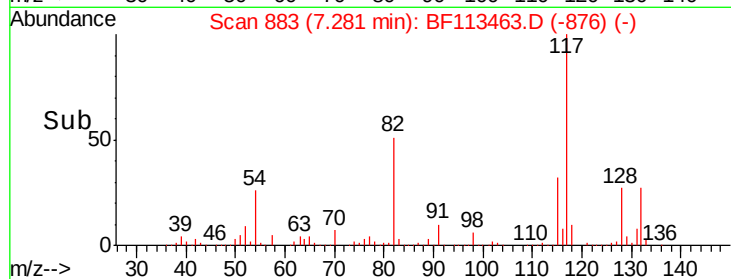
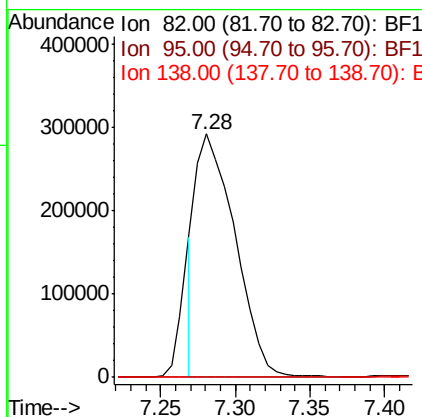
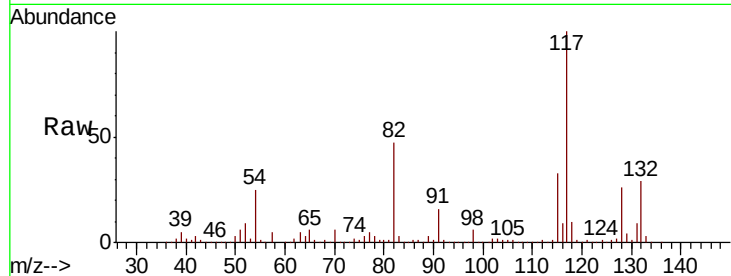




#25  
Isophorone  
Concen: 105.499 ng  
RT: 7.28 min Scan# 883  
Delta R.T. -0.26 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

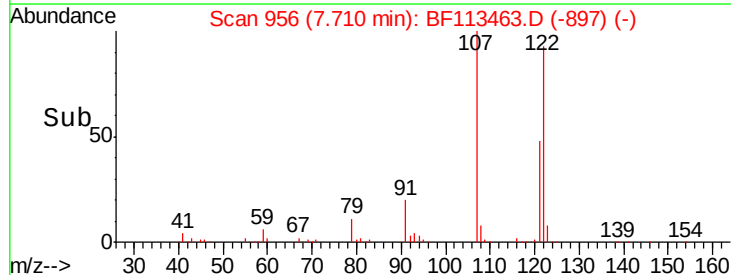
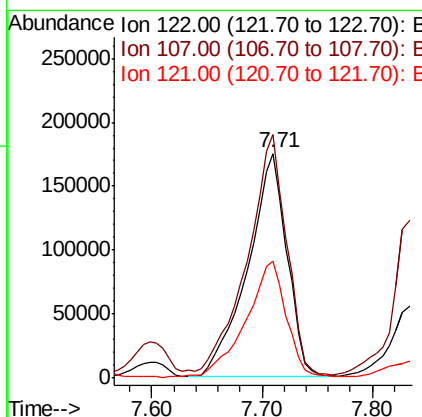
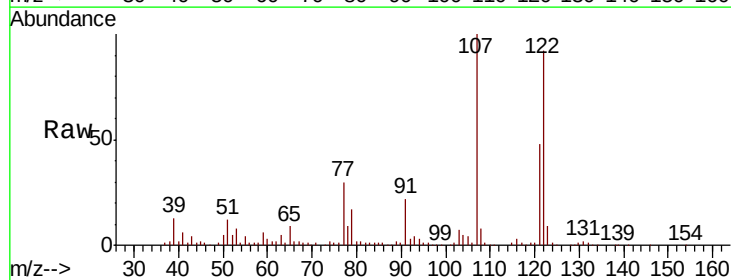
Instrument :  
BNA\_F  
ClientSampleId :

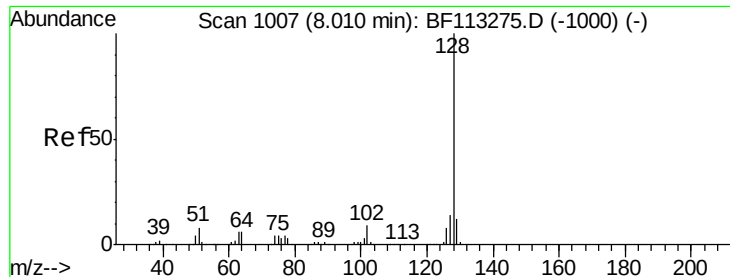
Tot Ion: 82 Resp: 527158  
Ion Ratio Lower Upper  
82 100  
95 0.3 5.4 8.0#  
138 0.0 14.7 22.1#



#27  
2,4-Dimethylphenol  
Concen: 211.845 ng  
RT: 7.71 min Scan# 956  
Delta R.T. 0.05 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion: 122 Resp: 433389  
Ion Ratio Lower Upper  
122 100  
107 108.2 86.3 129.5  
121 51.8 45.6 68.4

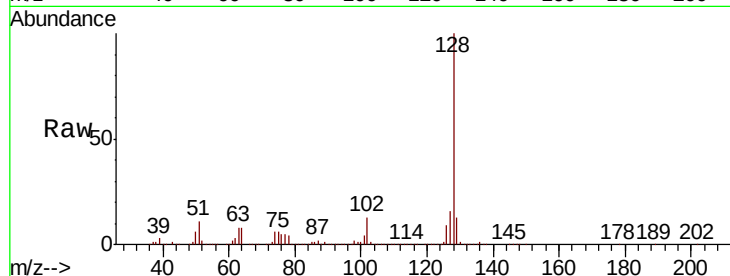




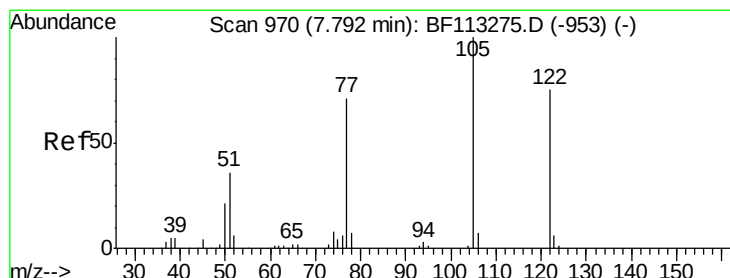
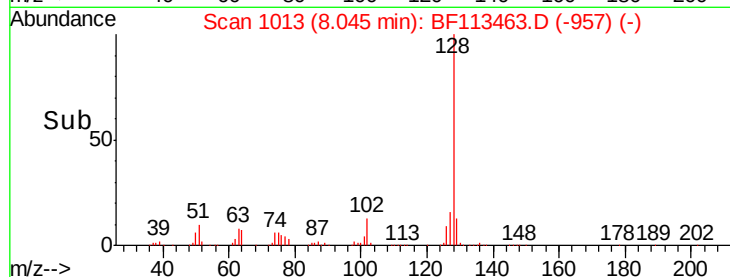
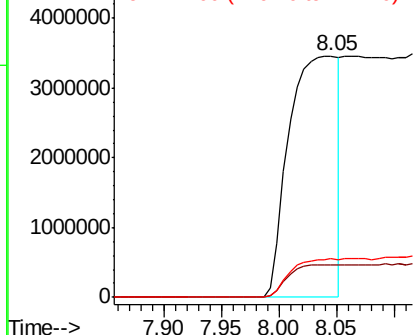
#31  
Naphthalene  
Concen: 1354.799 ng  
RT: 8.05 min Scan# 1013  
Delta R.T. 0.03 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:128 Resp:10131931  
Ion Ratio Lower Upper  
128 100  
129 13.4 9.4 14.0  
127 16.0 10.7 16.1

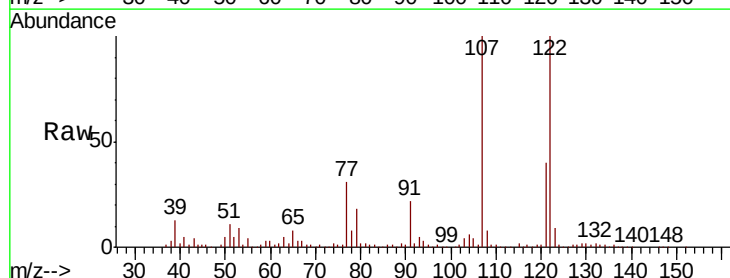


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

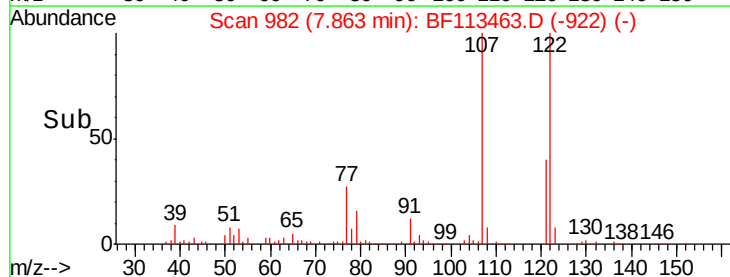
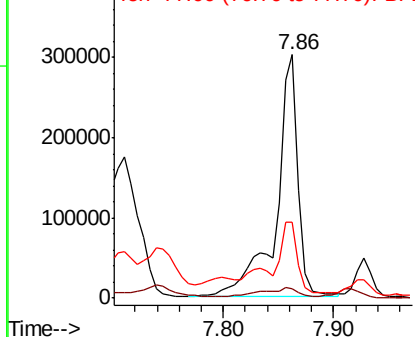


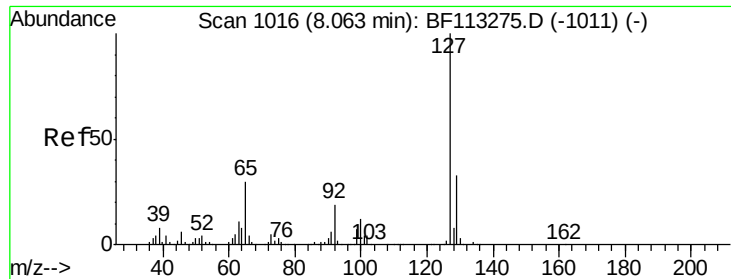
#32  
Benzoic acid  
Concen: 254.104 ng  
RT: 7.86 min Scan# 982  
Delta R.T. 0.05 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion:122 Resp: 418448  
Ion Ratio Lower Upper  
122 100  
105 4.1 98.4 138.4#  
77 31.4 68.0 108.0#



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF1

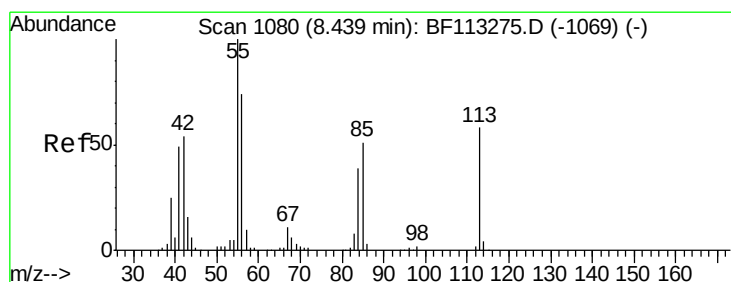
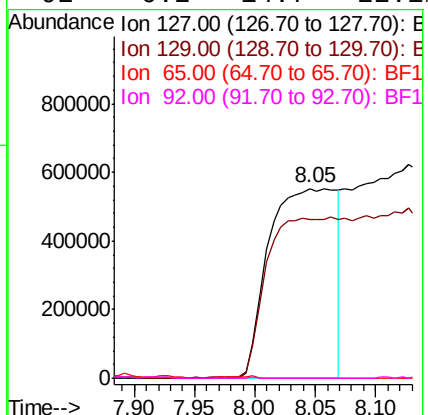
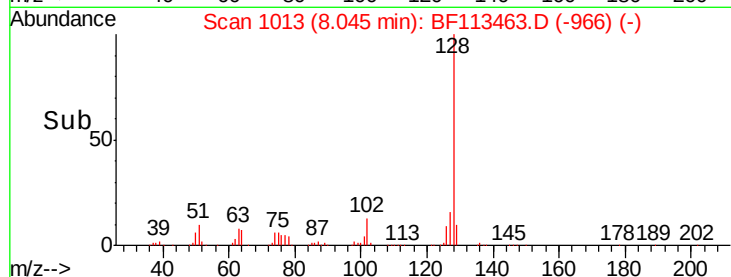
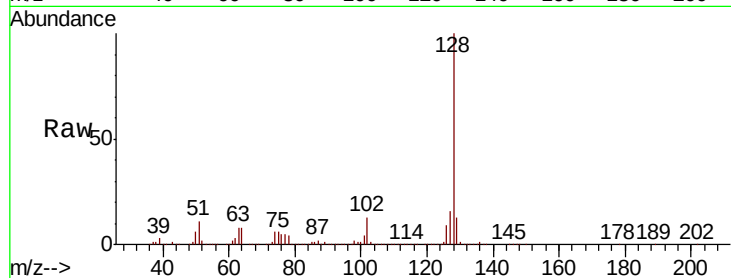




#33  
4-Chloroaniline  
Concen: 731.797 ng  
RT: 8.05 min Scan# 1013  
Delta R.T. -0.02 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

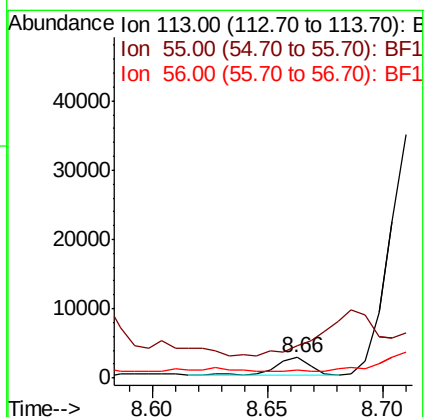
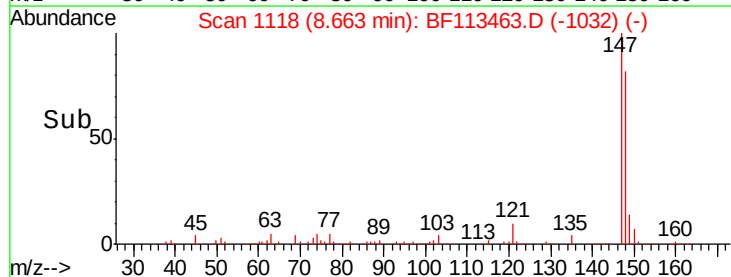
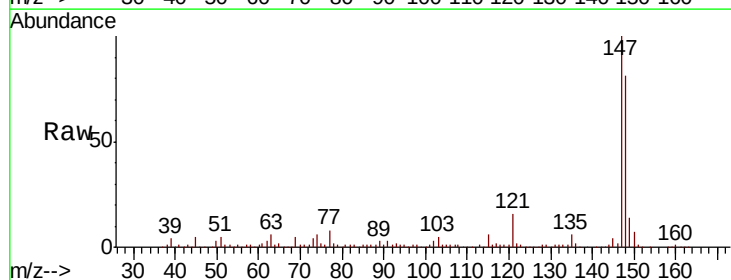
Instrument :  
BNA\_F  
ClientSampleId :

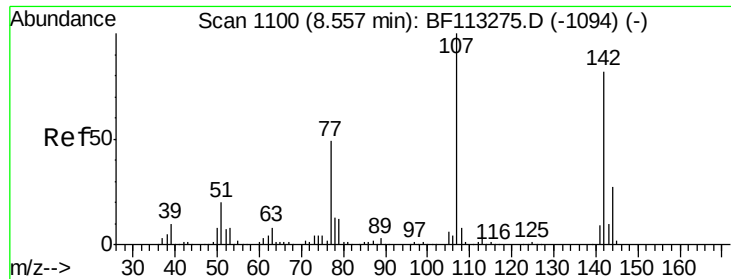
Tot Ion:127 Resp: 2134097  
Ion Ratio Lower Upper  
127 100  
129 83.8 26.2 39.2#  
65 0.0 23.7 35.5#  
92 0.2 14.7 22.1#



#35  
Caprolactam  
Concen: 4.080 ng  
RT: 8.66 min Scan# 1118  
Delta R.T. 0.21 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion:113 Resp: 2903  
Ion Ratio Lower Upper  
113 100  
55 154.0 151.8 191.8  
56 36.3 104.6 144.6#

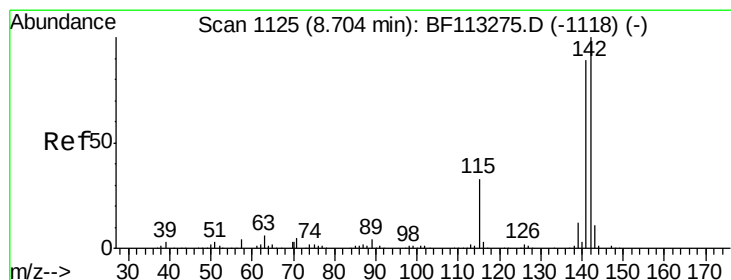
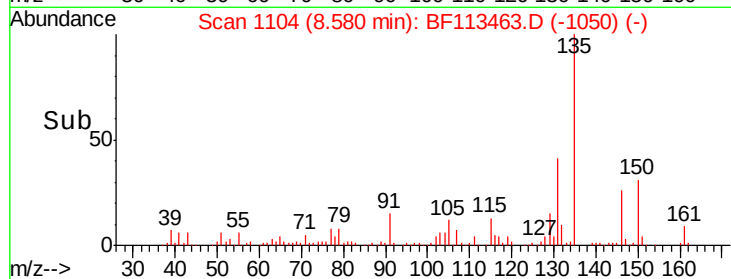
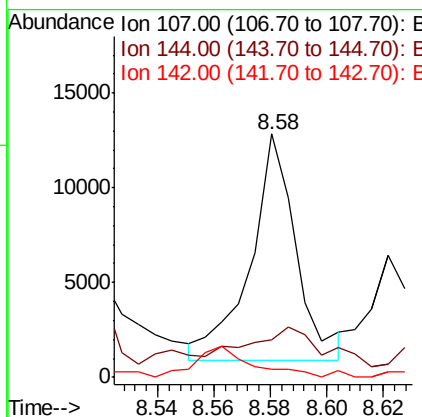
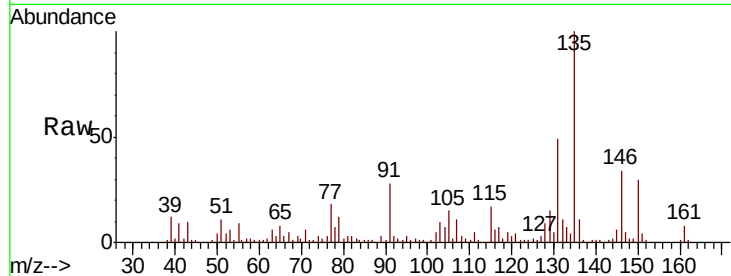




#36  
 4-Chloro-3-methylphenol  
 Concen: 6.004 ng  
 RT: 8.58 min Scan# 1104  
 Delta R.T. 0.02 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

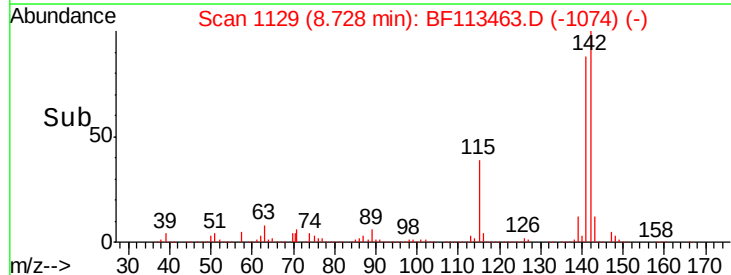
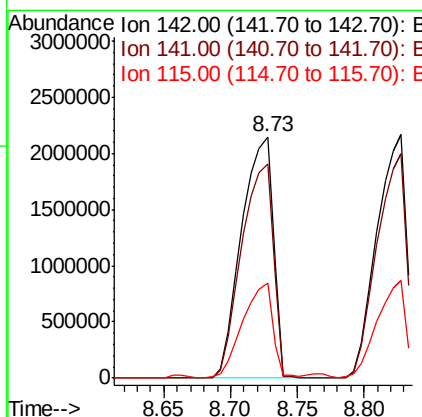
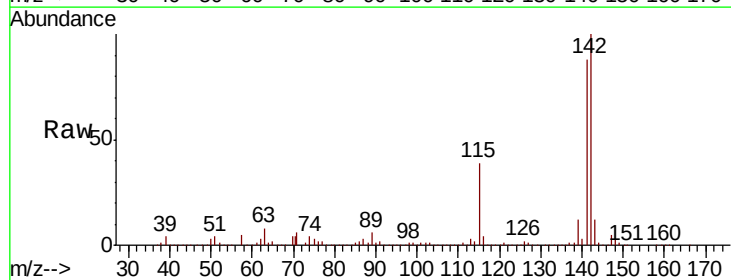
Instrument :  
 BNA\_F  
 ClientSampleId :

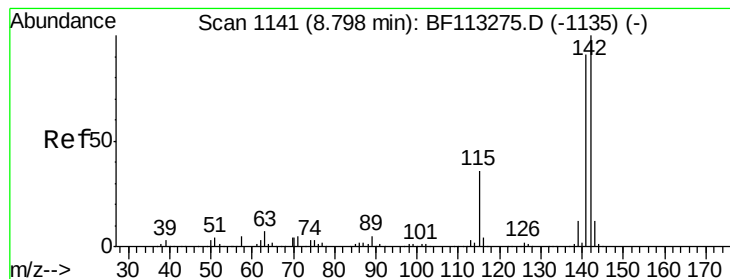
Tot Ion:107 Resp: 13388  
 Ion Ratio Lower Upper  
 107 100  
 144 15.6 20.5 30.7#  
 142 3.2 63.9 95.9#



#37  
 2-Methylnaphthalene  
 Concen: 755.826 ng  
 RT: 8.73 min Scan# 1129  
 Delta R.T. 0.02 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Tgt Ion:142 Resp: 3526959  
 Ion Ratio Lower Upper  
 142 100  
 141 88.4 69.2 103.8  
 115 39.2 26.6 39.8





#38

1-Methylnaphthalene

Concen: 785.796 ng

RT: 8.73 min Scan# 1129

Delta R.T. -0.08 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampled :

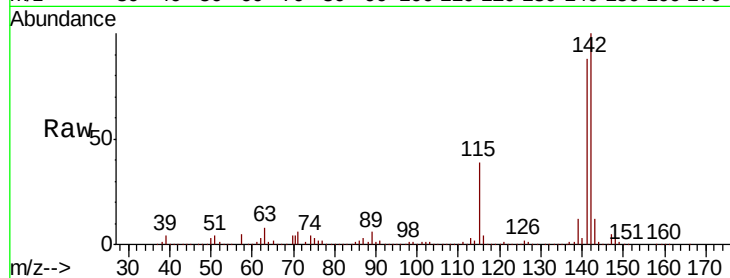
Tot Ion:142 Resp: 3526959

Ion Ratio Lower Upper

142 100

141 88.4 73.0 109.4

116 4.1 2.8 4.2

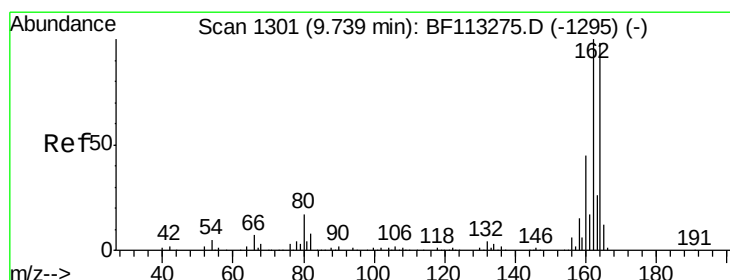
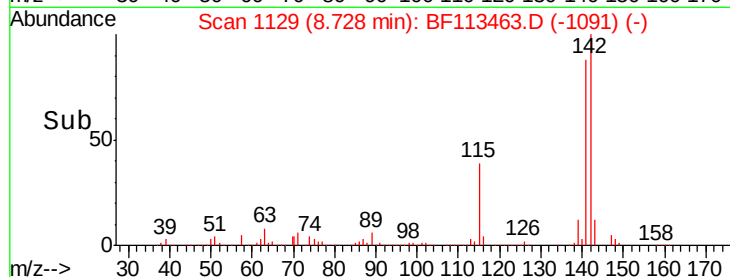
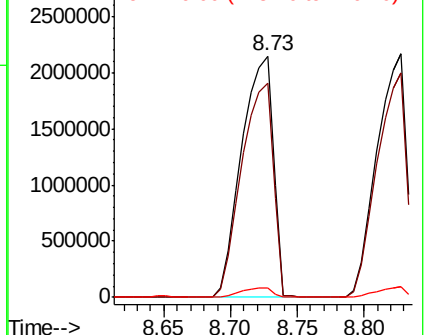


Abundance

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: 9.74 min Scan# 1301

Delta R.T. -0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

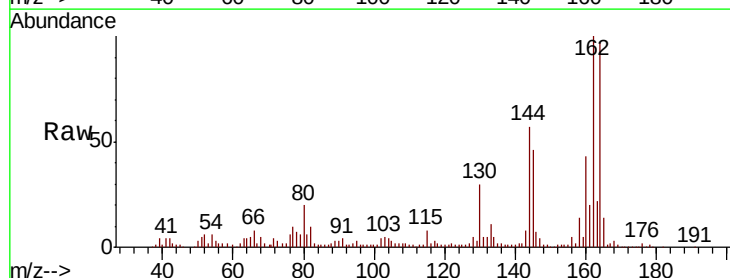
Tgt Ion:164 Resp: 236980

Ion Ratio Lower Upper

164 100

162 103.3 79.7 119.5

160 44.7 35.9 53.9

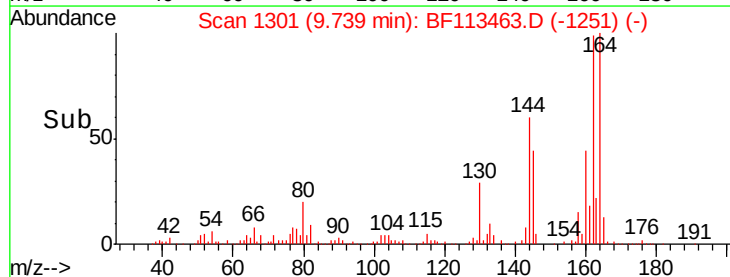
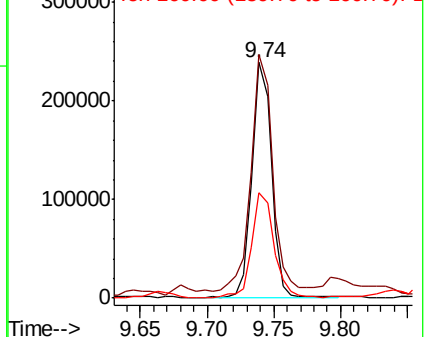


Abundance

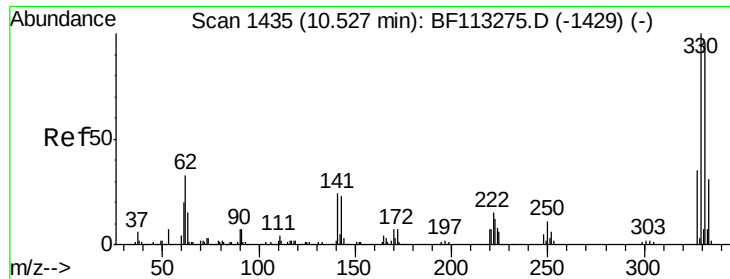
Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



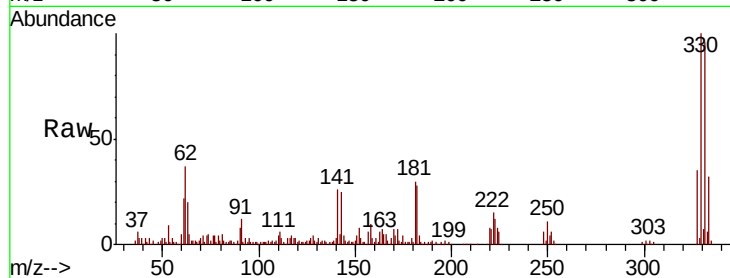




#42  
 2,4,6-Tribromophenol  
 Concen: 93.291 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. 0.00 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.7  | 116.5 |
| 141     | 34.1  | 21.4  | 32.2  |

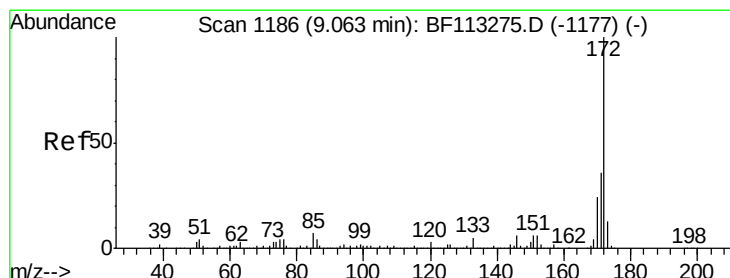
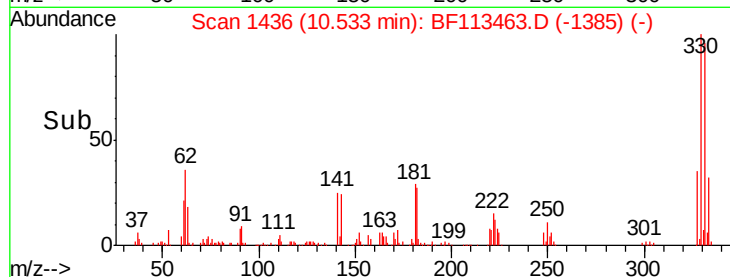
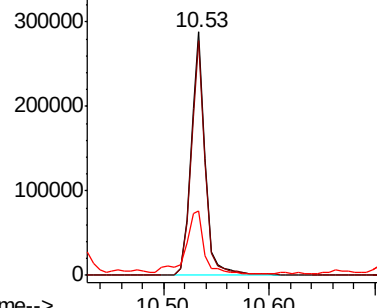


Abundance

Ion 329.80 (329.50 to 330.50): E

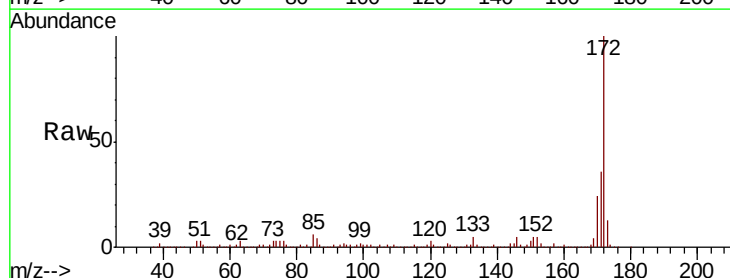
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 69.093 ng  
 RT: 9.07 min Scan# 1187  
 Delta R.T. 0.00 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.0  | 43.6  |
| 170     | 24.2  | 19.8  | 29.6  |

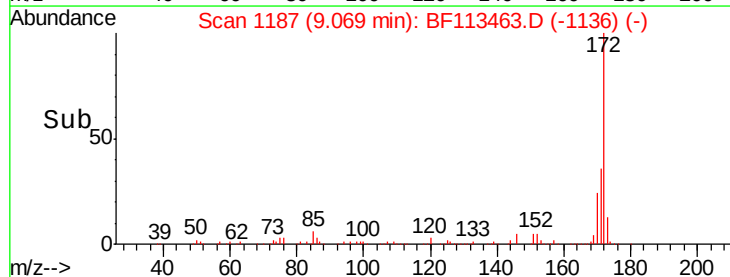
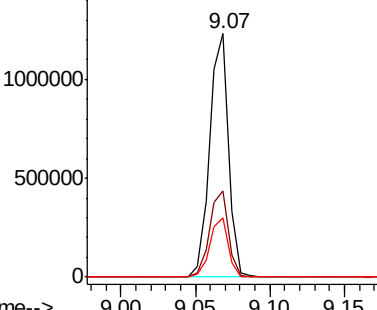


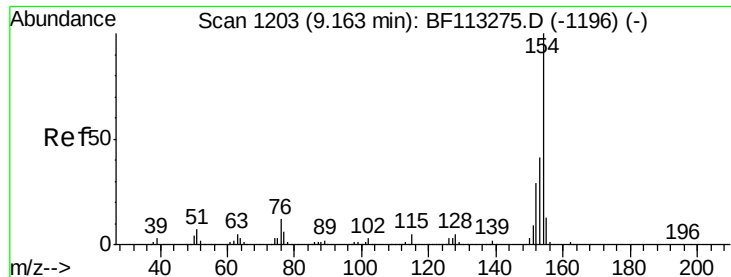
Abundance

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

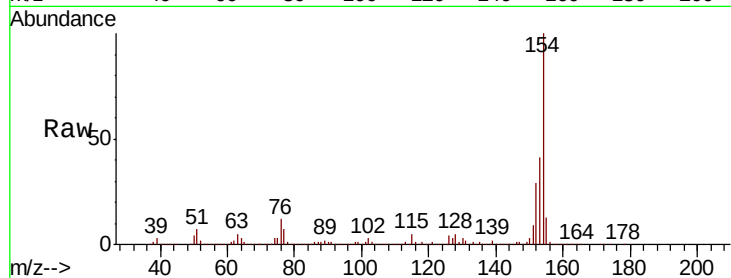




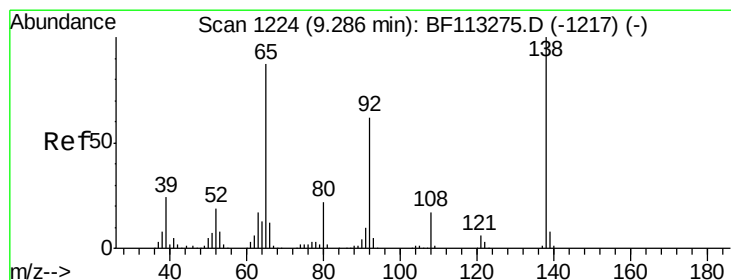
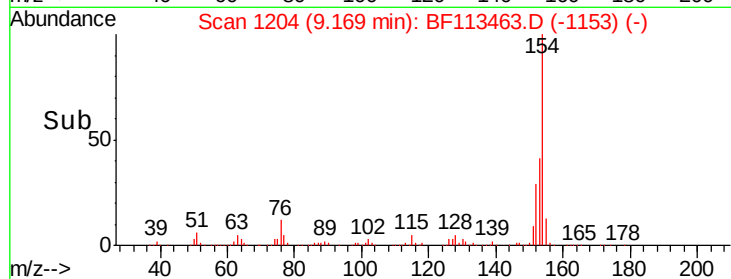
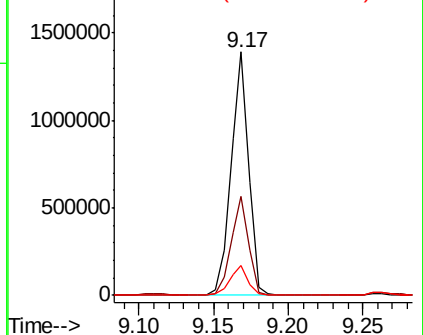
#46  
 1,1'-Biphenyl  
 Concen: 58.782 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. 0.00 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:154 Resp: 1163448  
 Ion Ratio Lower Upper  
 154 100  
 153 40.9 20.9 60.9  
 76 12.4 0.0 33.2

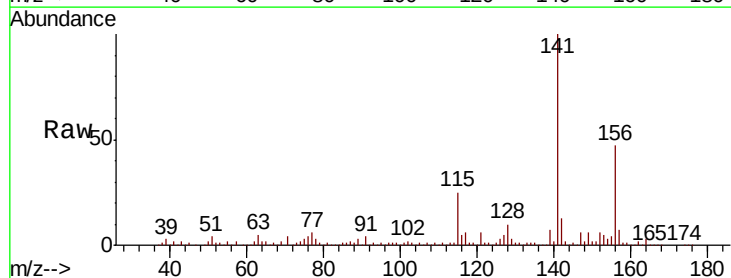


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF1

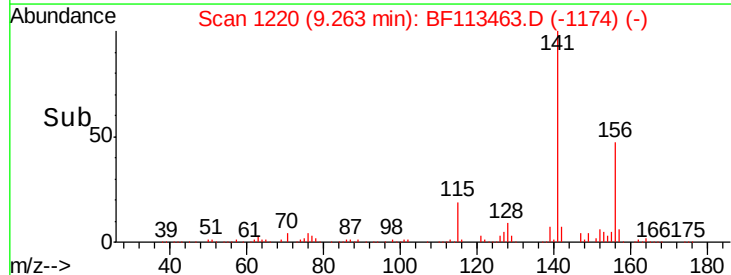
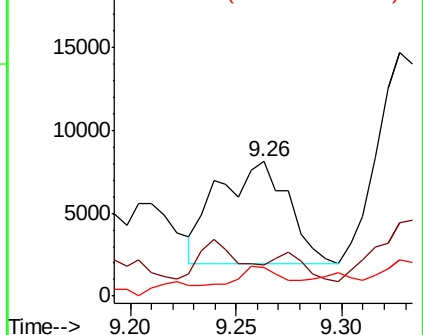


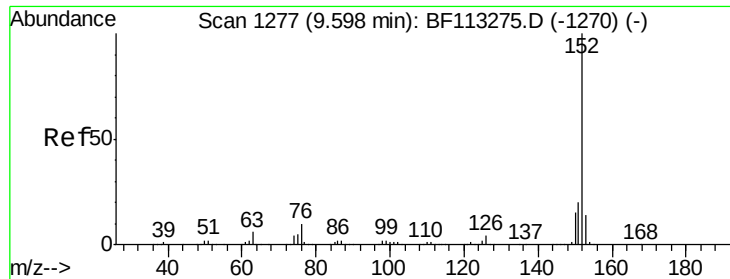
#48  
 2-Nitroaniline  
 Concen: 2.985 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. -0.03 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Tgt Ion: 65 Resp: 14277  
 Ion Ratio Lower Upper  
 65 100  
 92 23.4 55.3 82.9#  
 138 21.0 89.5 134.3#



Abundance Ion 65.00 (64.70 to 65.70): BF1  
 Ion 92.00 (91.70 to 92.70): BF1  
 Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 5.502 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

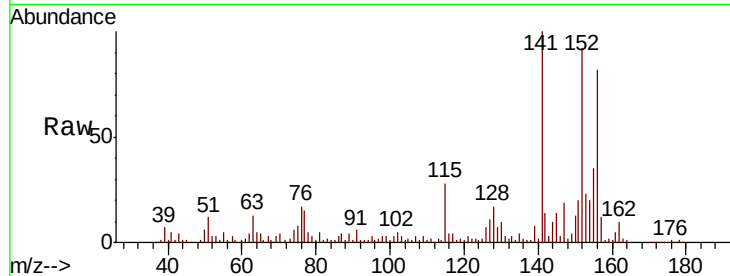
Tot Ion:152 Resp: 135583

Ion Ratio Lower Upper

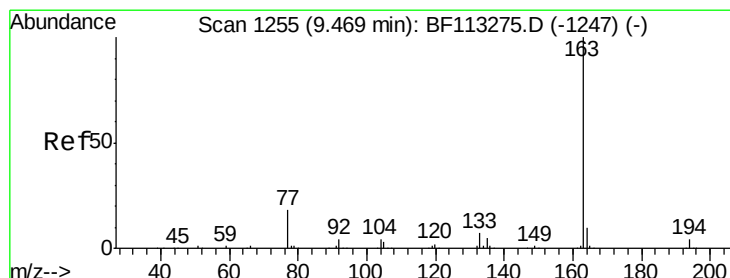
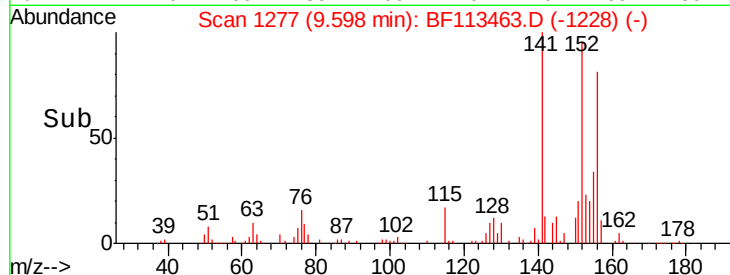
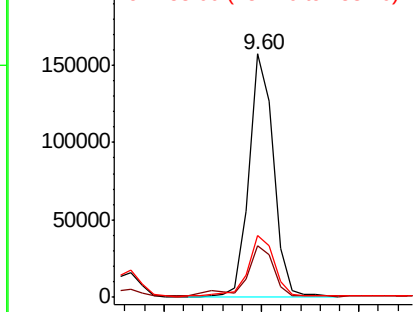
152 100

151 21.1 16.5 24.7

153 25.4 10.8 16.2#



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: 3.039 ng

RT: 9.47 min Scan# 1255

Delta R.T. 0.00 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

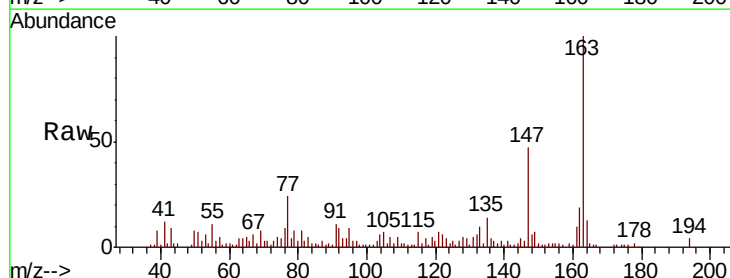
Tgt Ion:163 Resp: 53371

Ion Ratio Lower Upper

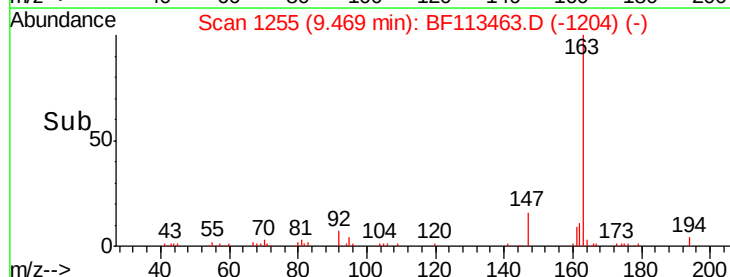
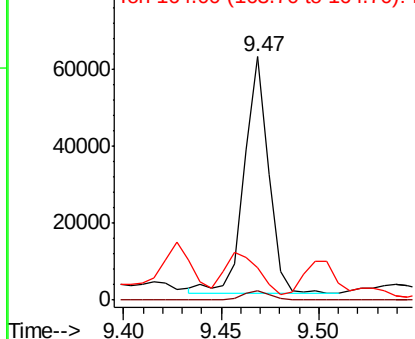
163 100

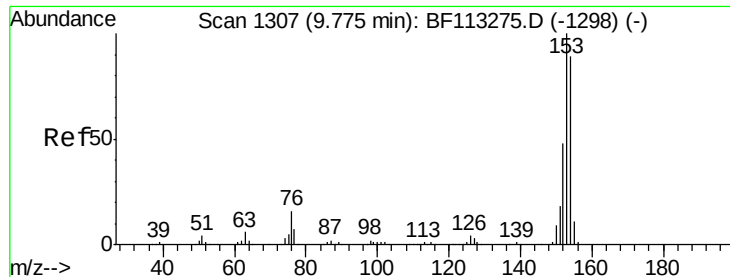
194 4.1 3.1 4.7

164 13.2 8.3 12.5#



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





#52

Acenaphthene

Concen: 132.935 ng

RT: 9.79 min Scan# 1309

Delta R.T. 0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampleId :

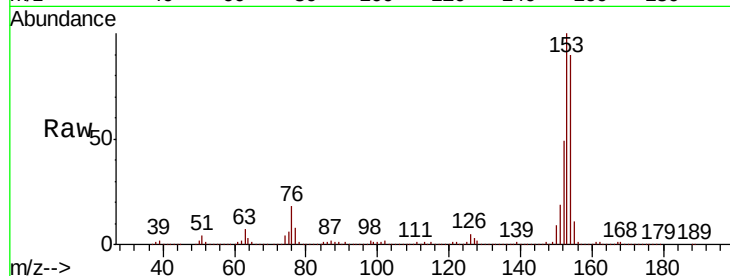
Tot Ion:154 Resp: 1844638

Ion Ratio Lower Upper

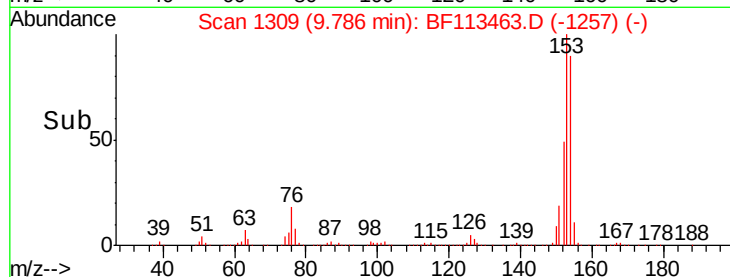
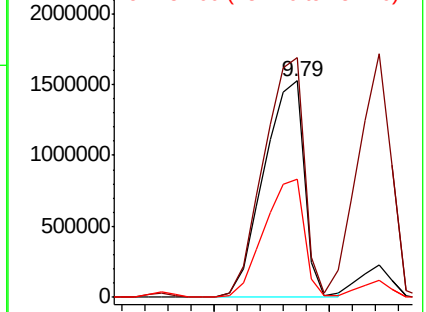
154 100

153 111.0 89.1 133.7

152 54.5 43.0 64.4



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



#54

2,4-Dinitrophenol

Concen: 4.682 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.08 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

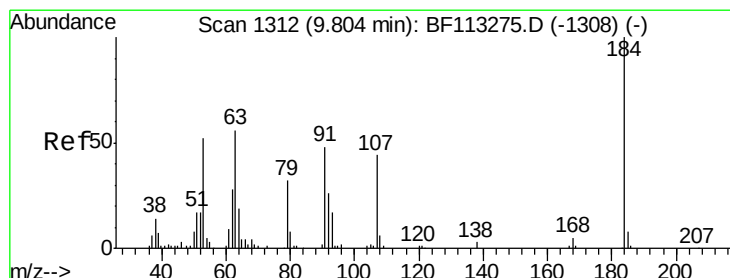
Tgt Ion:184 Resp: 9226

Ion Ratio Lower Upper

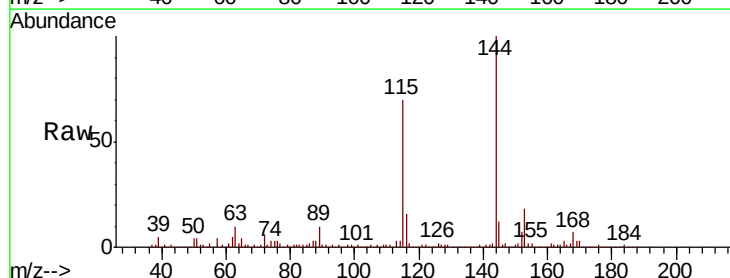
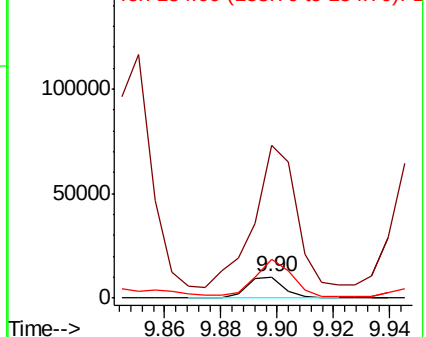
184 100

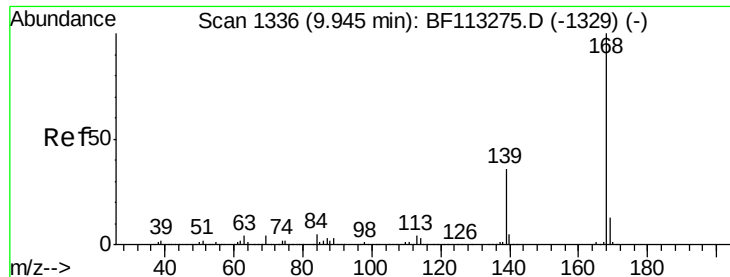
63 719.3 47.1 70.7#

154 181.4 44.3 66.5#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

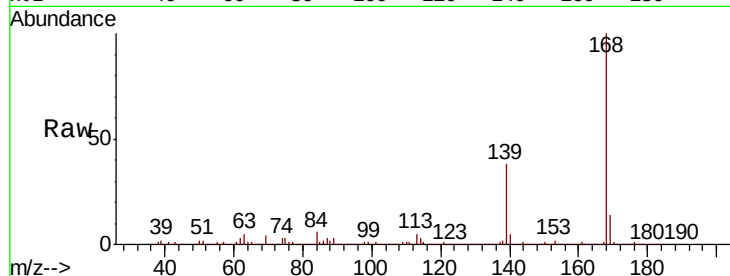




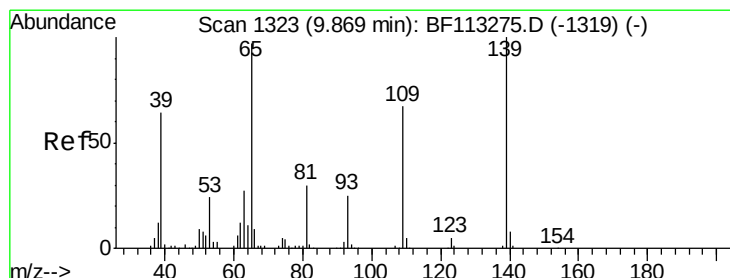
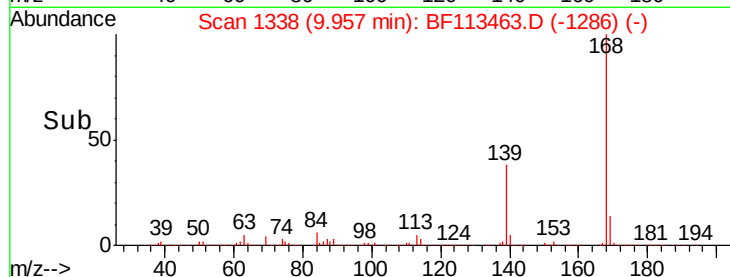
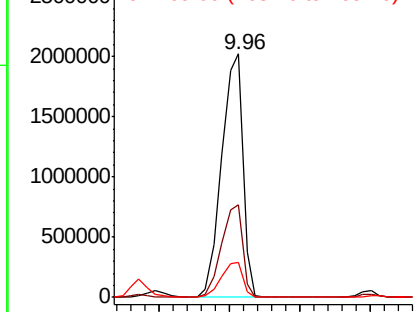
#55  
Dibenzofuran  
Concen: 101.400 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. 0.01 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:168 Resp: 2115276  
Ion Ratio Lower Upper  
168 100  
139 37.9 29.1 43.7  
169 14.1 10.8 16.2

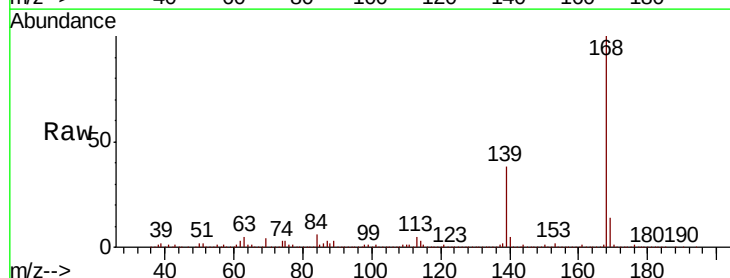


Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

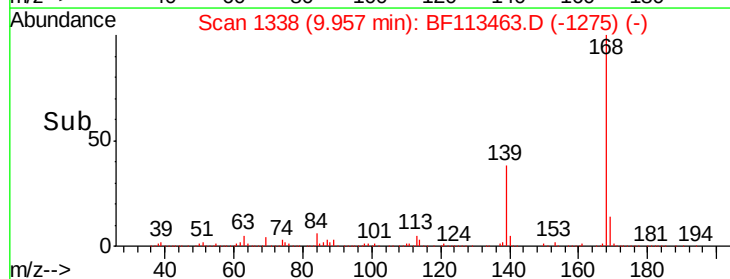
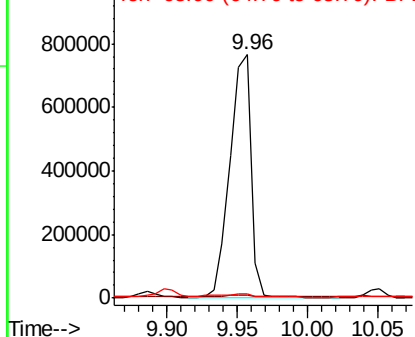


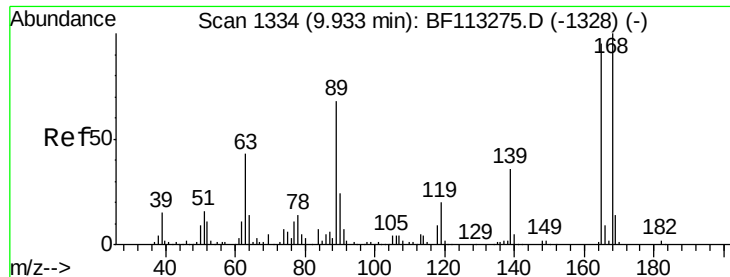
#56  
4-Nitrophenol  
Concen: 249.575 ng  
RT: 9.96 min Scan# 1338  
Delta R.T. 0.07 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Tgt Ion:139 Resp: 794990  
Ion Ratio Lower Upper  
139 100  
109 1.4 39.0 79.0#  
65 1.9 65.7 105.7#



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

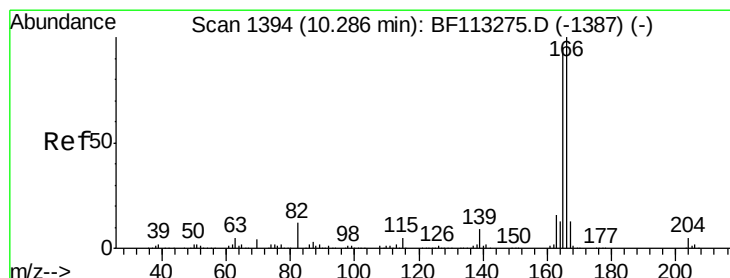
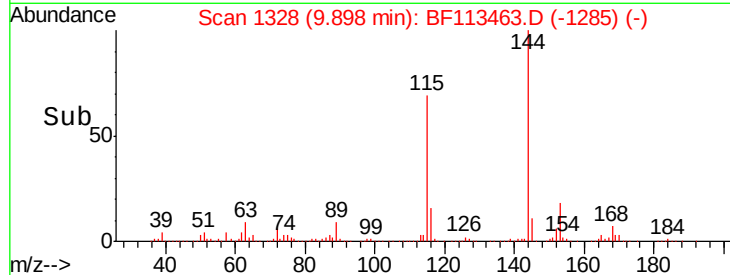
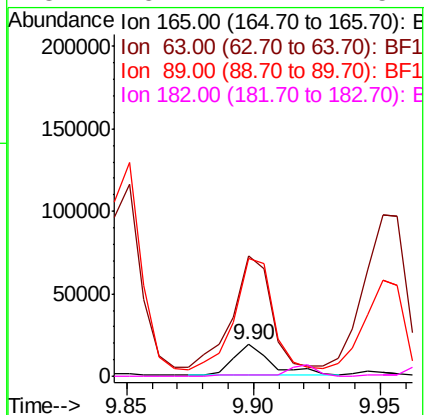
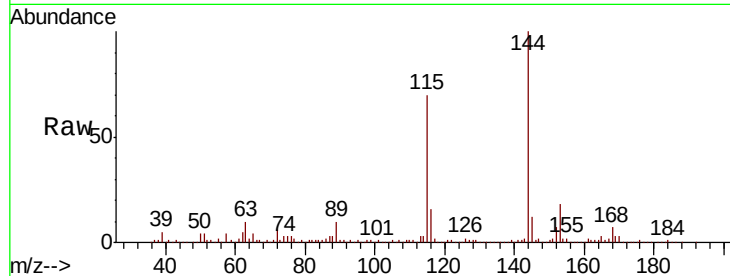




#57  
 2,4-Dinitrotoluene  
 Concen: 3.879 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.05 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

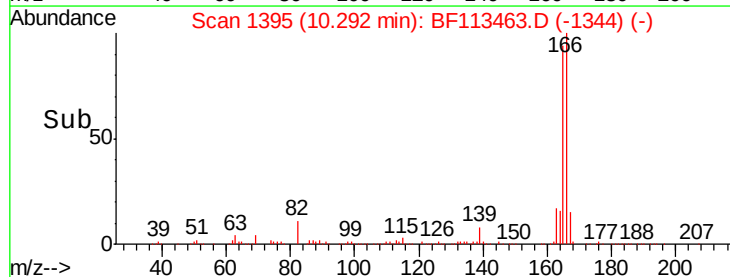
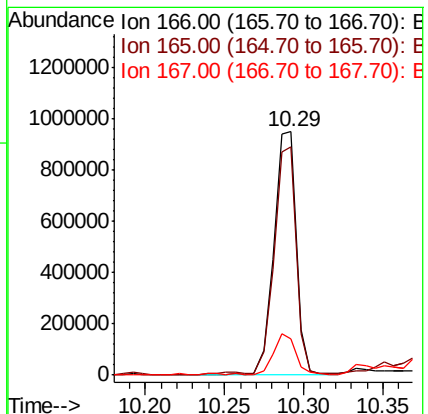
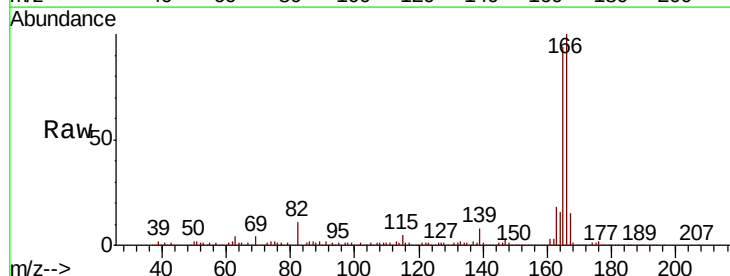
Instrument :  
 BNA\_F  
 ClientSampleId :

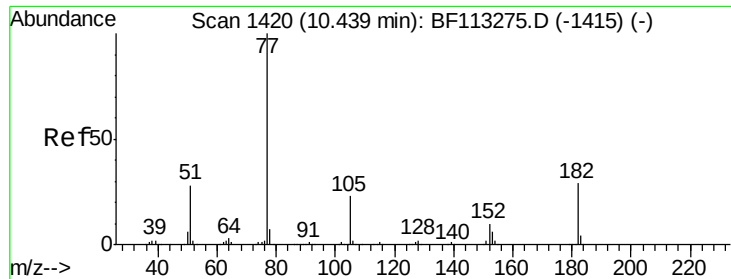
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 19544 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 379.5 | 45.6  | 68.4# |
| 89       | 370.2 | 61.8  | 92.8# |
| 182      | 5.4   | 2.1   | 3.1#  |



#58  
 Fluorene  
 Concen: 57.903 ng  
 RT: 10.29 min Scan# 1395  
 Delta R.T. 0.00 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 938355 |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 93.7  | 75.8  | 113.6  |
| 167      | 15.0  | 11.2  | 16.8   |

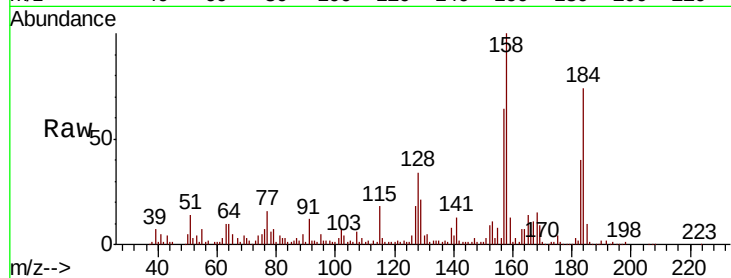




#63  
Azobenzene  
Concen: 3.460 ng  
RT: 10.41 min Scan# 1415  
Delta R.T. -0.04 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 77      | 100  |       |       |       |
| 182     | 11.5 | 8.7   | 48.7  |       |
| 105     | 15.0 | 3.3   | 43.3  |       |
| 51      | 87.1 | 8.2   | 48.2  |       |



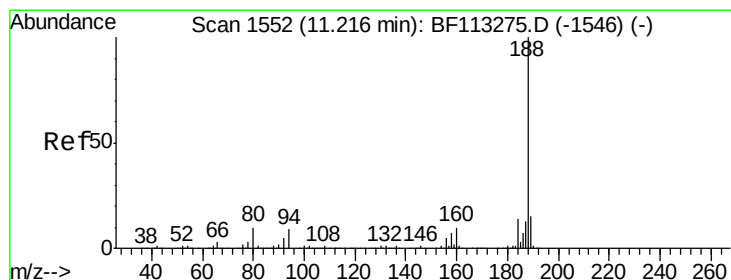
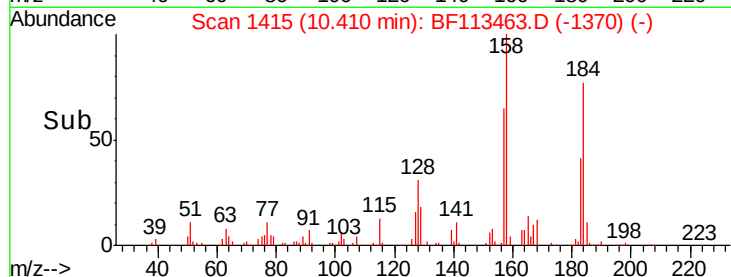
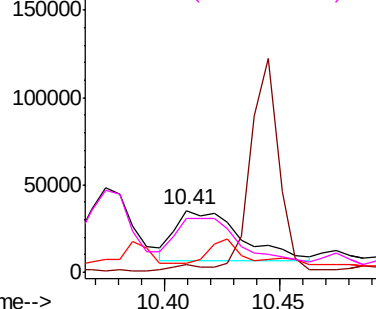
Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

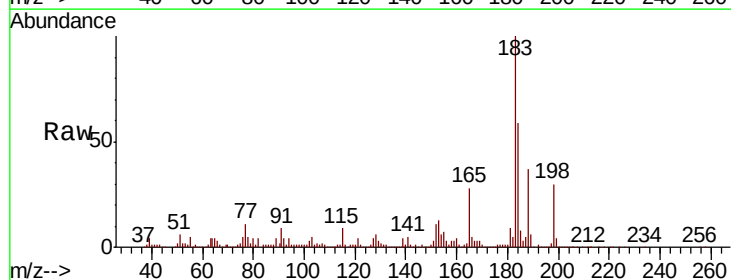
Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.22 min Scan# 1553  
Delta R.T. 0.00 min  
Lab File: BF113463.D  
Acq: 1 Apr 2019 13:40

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 188     | 100  |       |       |       |
| 94      | 11.9 | 7.8   | 11.6  |       |
| 80      | 11.2 | 8.2   | 12.2  |       |

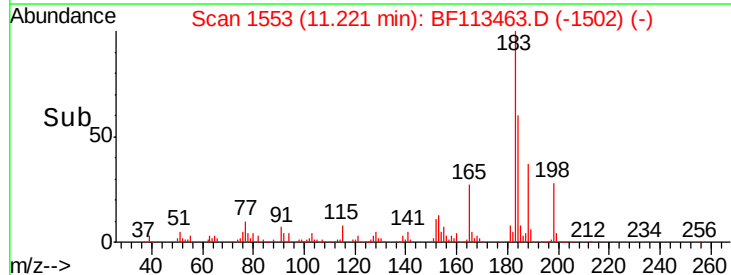
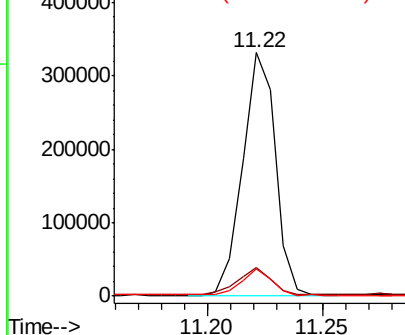


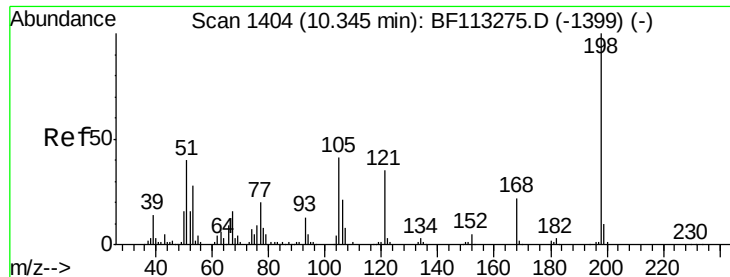
Abundance

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

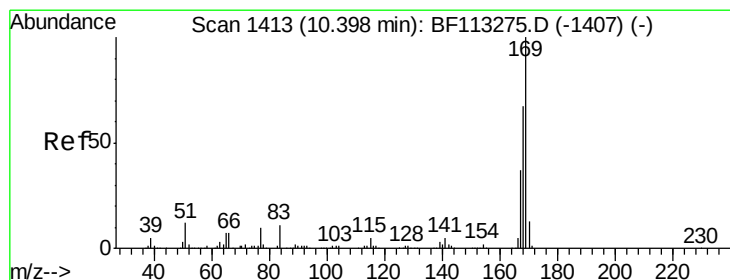
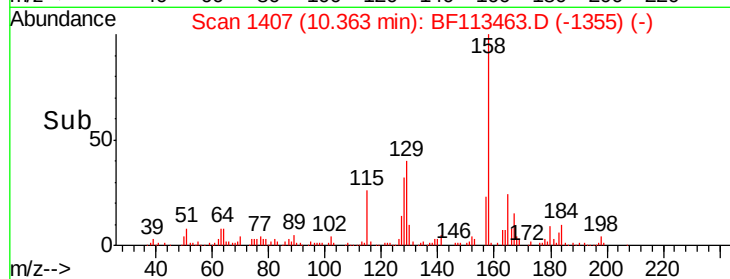
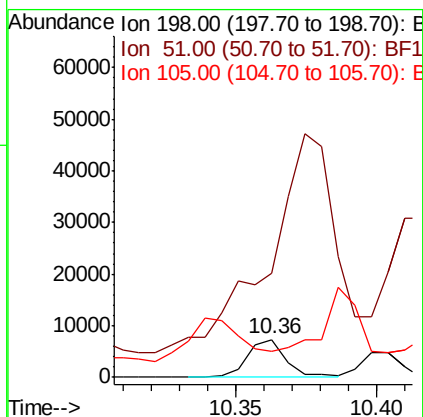
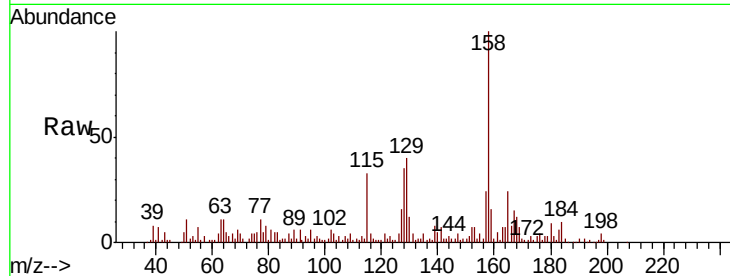




#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 3.872 ng  
 RT: 10.36 min Scan# 1407  
 Delta R.T. 0.01 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

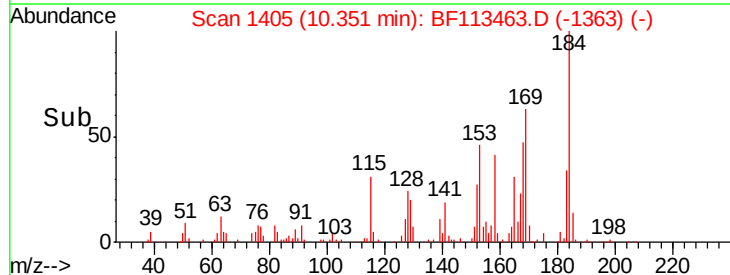
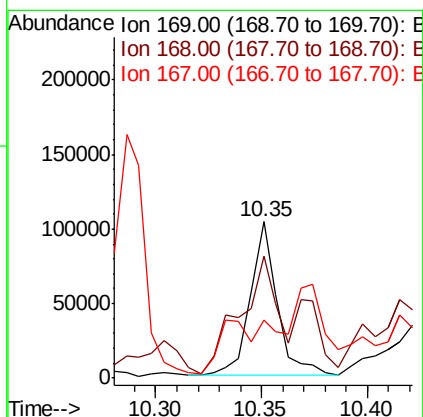
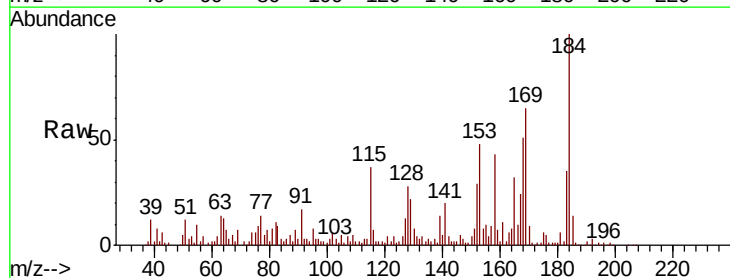
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 6955  
 Ion Ratio Lower Upper  
 198 100  
 51 273.6 25.9 65.9#  
 105 68.3 24.7 64.7#

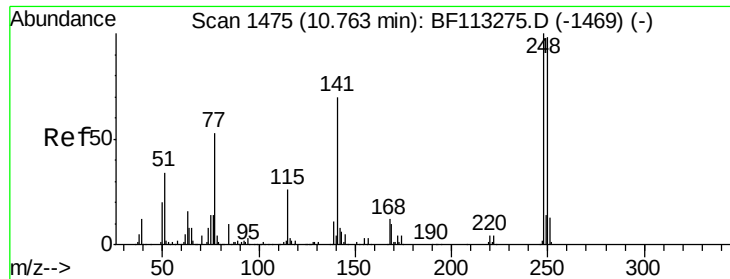


#66  
 n-Nitrosodiphenylamine  
 Concen: 9.257 ng  
 RT: 10.35 min Scan# 1405  
 Delta R.T. -0.05 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Tgt Ion:169 Resp: 93278  
 Ion Ratio Lower Upper  
 169 100  
 168 78.4 53.0 79.6  
 167 37.1 29.4 44.0



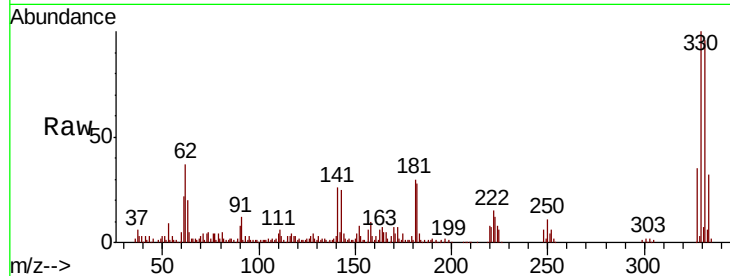




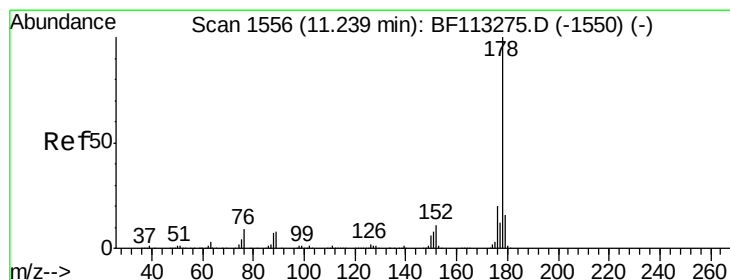
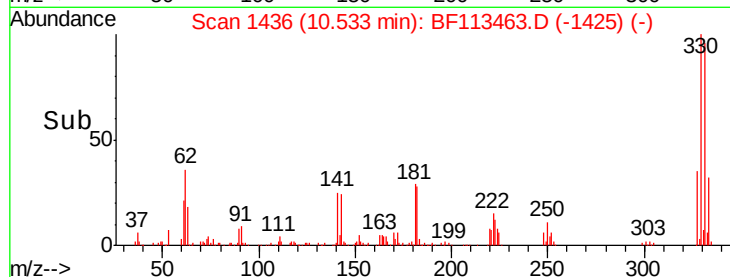
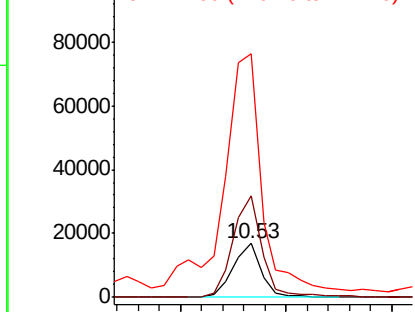
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.355 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. -0.24 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 15587  
 Ion Ratio Lower Upper  
 248 100  
 250 188.4 77.5 116.3#  
 141 449.9 54.0 81.0#

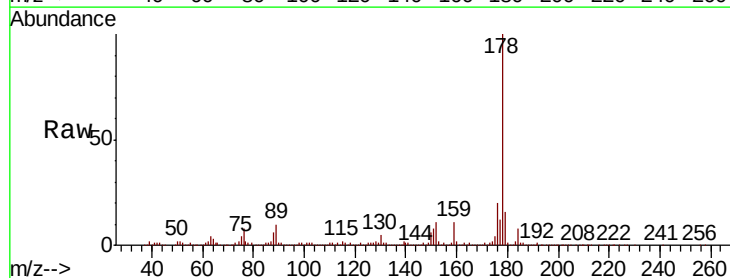


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

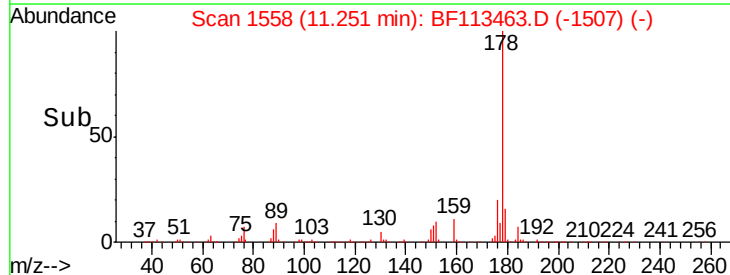
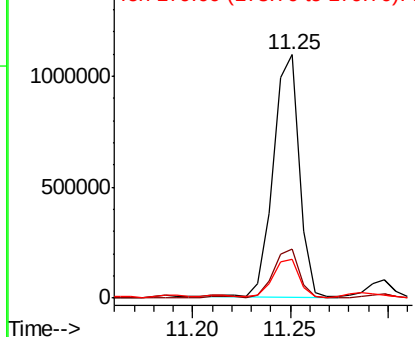


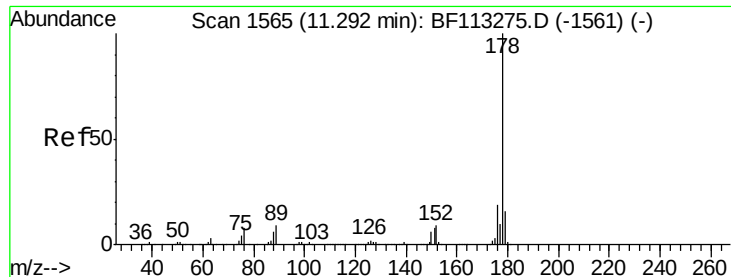
#71  
 Phenanthrene  
 Concen: 62.456 ng  
 RT: 11.25 min Scan# 1558  
 Delta R.T. 0.00 min  
 Lab File: BF113463.D  
 Acq: 1 Apr 2019 13:40

Tgt Ion:178 Resp: 1018501  
 Ion Ratio Lower Upper  
 178 100  
 176 20.1 16.1 24.1  
 179 15.8 12.6 19.0



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





#72

Anthracene

Concen: 4.319 ng

RT: 11.30 min Scan# 1566

Delta R.T. 0.00 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

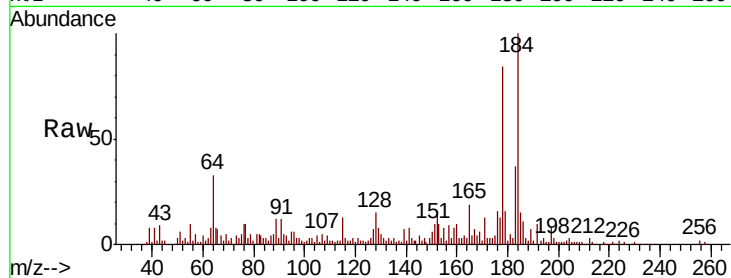
Tot Ion:178 Resp: 71540

Ion Ratio Lower Upper

178 100

176 19.6 15.5 23.3

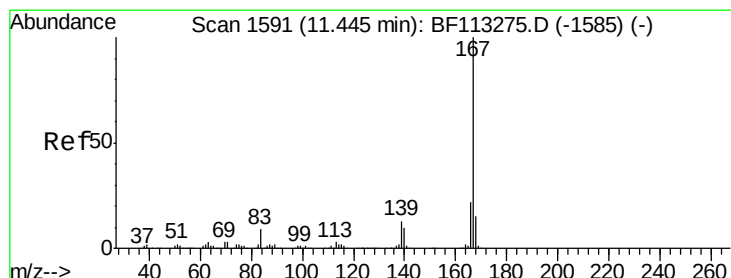
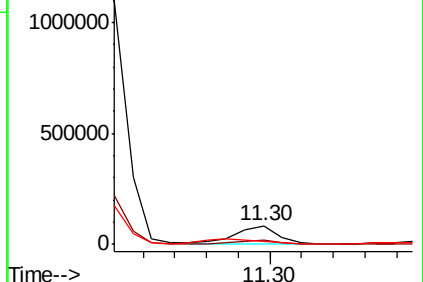
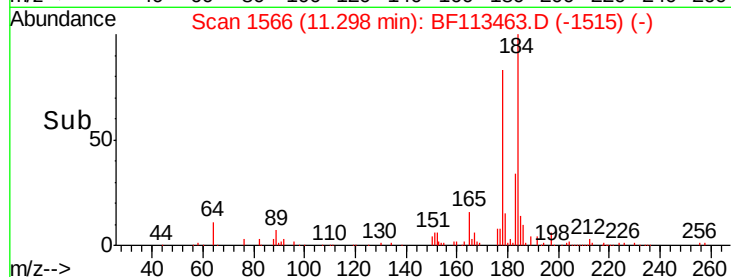
179 19.3 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 58.393 ng

RT: 11.46 min Scan# 1594

Delta R.T. 0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

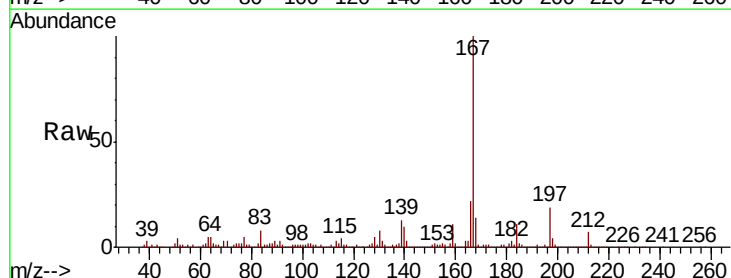
Tgt Ion:167 Resp: 922950

Ion Ratio Lower Upper

167 100

166 21.5 17.8 26.8

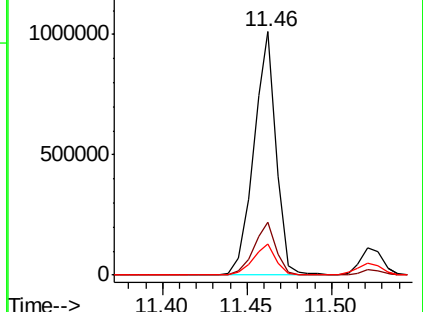
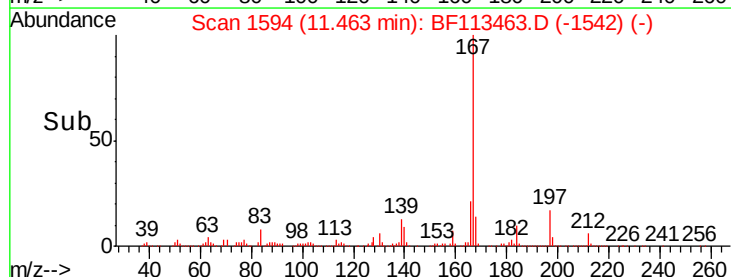
139 12.9 10.2 15.2

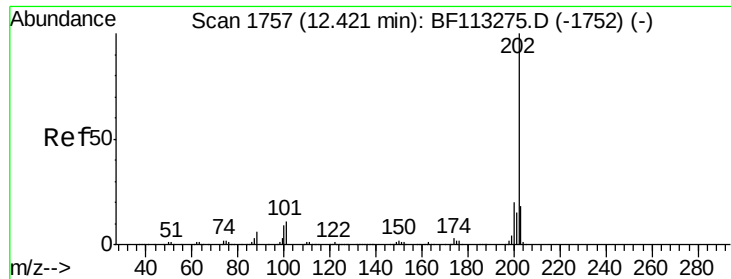


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 2.230 ng

RT: 12.43 min Scan# 1759

Delta R.T. 0.00 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

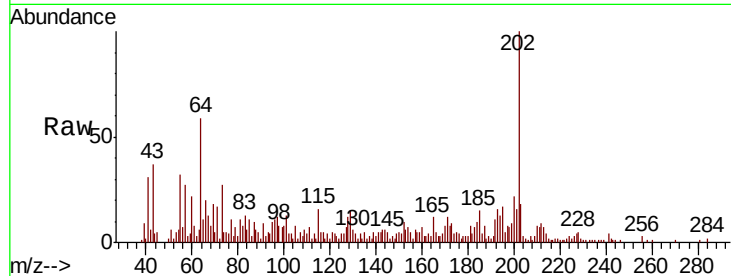
Tot Ion:202 Resp: 41103

Ion Ratio Lower Upper

202 100

101 12.9 0.0 30.9

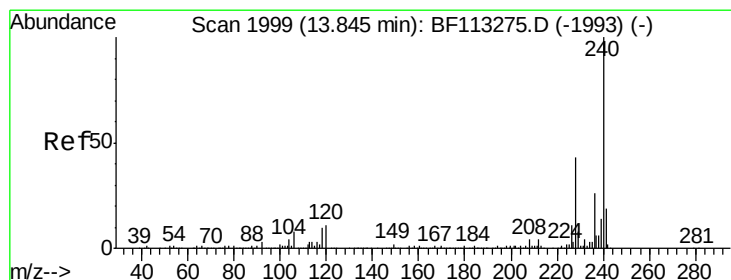
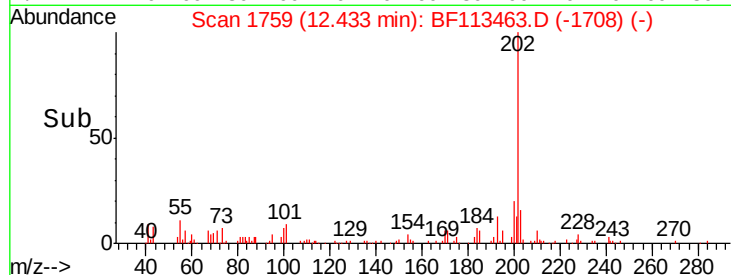
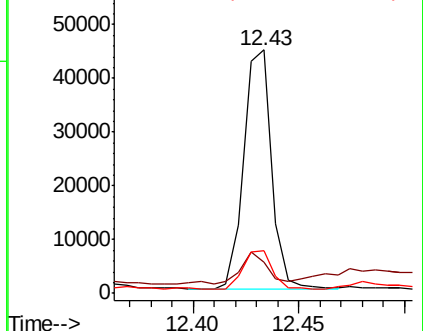
203 17.6 0.0 38.2



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: 13.85 min Scan# 2000

Delta R.T. 0.00 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

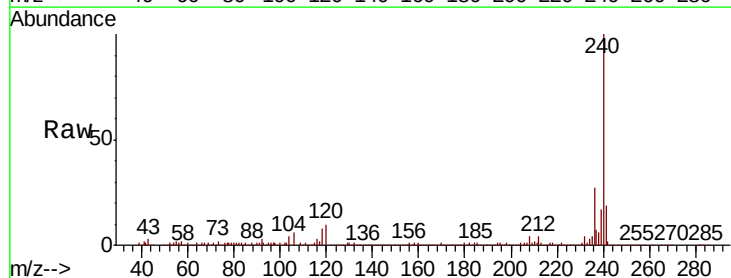
Tgt Ion:240 Resp: 353281

Ion Ratio Lower Upper

240 100

120 9.9 9.7 14.5

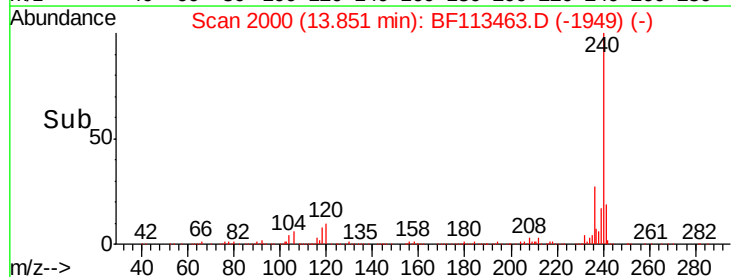
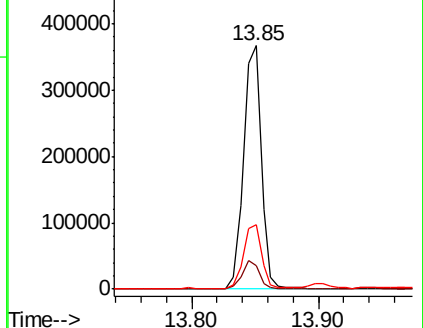
236 26.7 20.9 31.3

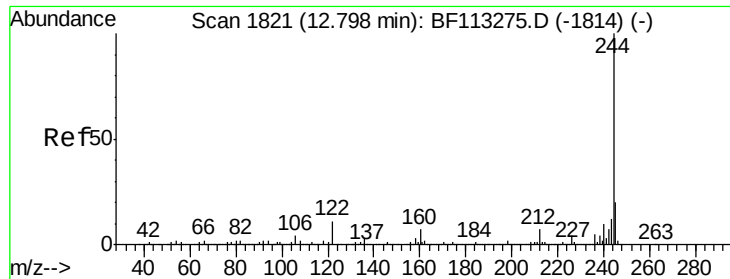


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 57.845 ng

RT: 12.80 min Scan# 1821

Delta R.T. -0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

Instrument :

BNA\_F

ClientSampleId :

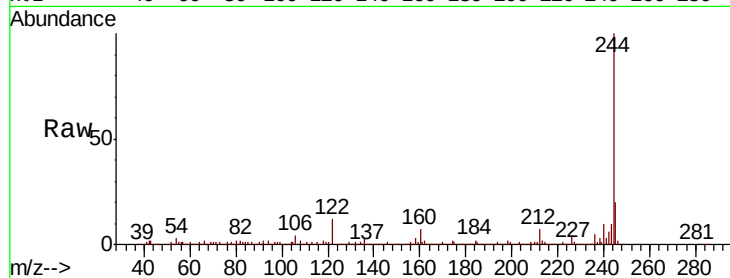
Tot Ion:244 Resp: 927127

Ion Ratio Lower Upper

244 100

212 6.8 5.6 8.4

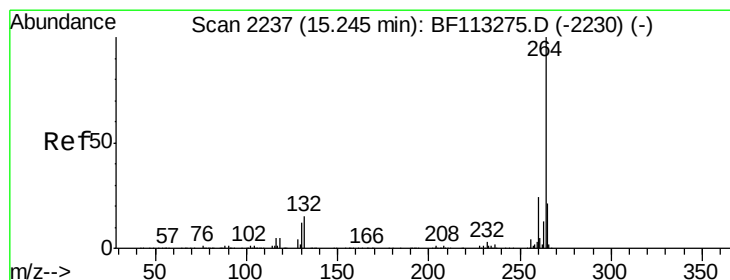
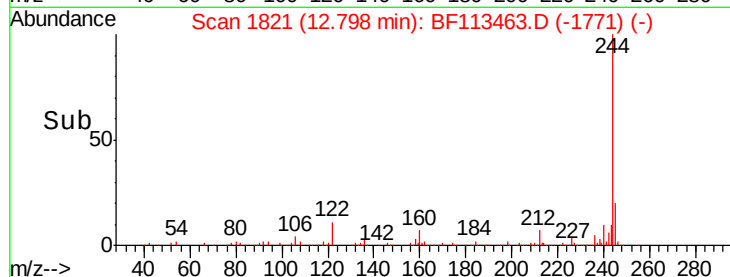
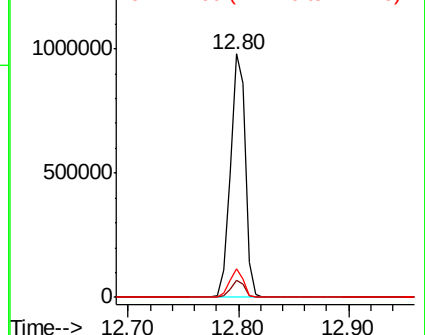
122 11.5 8.7 13.1



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.25 min Scan# 2238

Delta R.T. -0.01 min

Lab File: BF113463.D

Acq: 1 Apr 2019 13:40

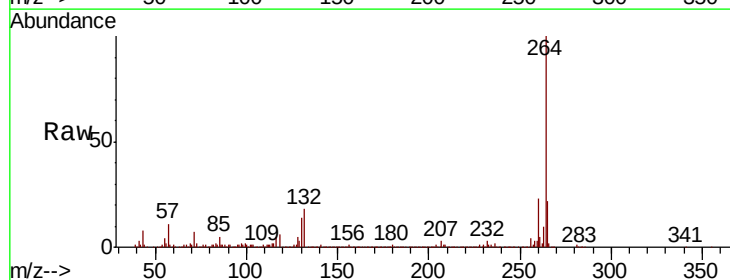
Tgt Ion:264 Resp: 387067

Ion Ratio Lower Upper

264 100

260 22.9 18.8 28.2

265 22.2 17.2 25.8



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

