

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF030818\  
 Data File : BF103516.D  
 Acq On : 8 Mar 2018 15:08  
 Operator : SJ/JU  
 Sample : PB107144BS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 08 16:19:31 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 08 14:20:19 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 138006   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 577677   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.90  | 164  | 263185   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 445825   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 294759   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.56 | 264  | 257968   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.49  | 112 | 886090  | 97.11 | ng | 0.00 |
| 7) Phenol-d6             | 6.50  | 99  | 1053130 | 94.32 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.43  | 82  | 702659  | 69.46 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 185747  | 83.38 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.22  | 172 | 1026722 | 63.13 | ng | 0.00 |
| 78) Terphenyl-d14        | 12.98 | 244 | 911602  | 74.34 | ng | 0.00 |

## Target Compounds

|                                |      |     |        |        |    | Qvalue |
|--------------------------------|------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.69 | 88  | 123312 | 25.587 | ng | 97     |
| 3) Pyridine                    | 3.52 | 79  | 278625 | 21.655 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 3.45 | 42  | 145180 | 27.979 | ng | 90     |
| 6) Aniline                     | 6.53 | 93  | 286449 | 17.776 | ng | # 71   |
| 8) 2-Chlorophenol              | 6.65 | 128 | 291123 | 30.712 | ng | 92     |
| 9) Benzaldehyde                | 6.42 | 77  | 170875 | 22.141 | ng | 99     |
| 10) Phenol                     | 6.52 | 94  | 381787 | 29.454 | ng | 91     |
| 11) bis(2-Chloroethyl)ether    | 6.60 | 93  | 289454 | 29.423 | ng | 95     |
| 12) 1,3-Dichlorobenzene        | 6.80 | 146 | 301011 | 27.788 | ng | 96     |
| 13) 1,4-Dichlorobenzene        | 6.88 | 146 | 322677 | 29.711 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 7.03 | 146 | 278748 | 27.835 | ng | 99     |
| 15) Benzyl Alcohol             | 7.01 | 79  | 236753 | 28.139 | ng | 97     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45  | 460703 | 27.271 | ng | 72     |
| 17) 2-Methylphenol             | 7.12 | 107 | 241338 | 28.016 | ng | # 89   |
| 18) Hexachloroethane           | 7.36 | 117 | 116529 | 29.474 | ng | # 89   |
| 19) n-Nitroso-di-n-propylamine | 7.27 | 70  | 218485 | 31.441 | ng | 92     |
| 20) 3+4-Methylphenols          | 7.28 | 107 | 318468 | 30.328 | ng | # 64   |
| 22) Acetophenone               | 7.27 | 105 | 413548 | 30.670 | ng | # 91   |
| 24) Nitrobenzene               | 7.45 | 77  | 346736 | 31.133 | ng | 95     |
| 25) Isophorone                 | 7.68 | 82  | 630945 | 31.670 | ng | 94     |
| 26) 2-Nitrophenol              | 7.77 | 139 | 165648 | 31.595 | ng | 95     |
| 27) 2,4-Dimethylphenol         | 7.80 | 122 | 276619 | 34.517 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 7.89 | 93  | 385770 | 32.935 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 8.02 | 162 | 248463 | 32.383 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 8.09 | 180 | 236319 | 28.923 | ng | 99     |
| 31) Naphthalene                | 8.17 | 128 | 830041 | 29.349 | ng | 99     |
| 32) Benzoic acid               | 7.93 | 122 | 75947  | 17.848 | ng | 95     |
| 33) 4-Chloroaniline            | 8.23 | 127 | 188428 | 15.439 | ng | 97     |
| 34) Hexachlorobutadiene        | 8.27 | 225 | 114618 | 26.939 | ng | 97     |
| 35) Caprolactam                | 8.59 | 113 | 77371  | 28.692 | ng | # 76   |
| 36) 4-Chloro-3-methylphenol    | 8.71 | 107 | 271856 | 31.413 | ng | 96     |
| 37) 2-Methylnaphthalene        | 8.86 | 142 | 564228 | 30.869 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.03 | 216 | 201158 | 27.958 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 9.00 | 237 | 45840  | 24.950 | ng | 98     |

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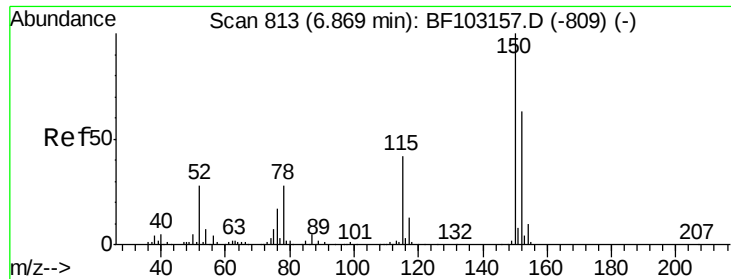
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 08 16:19:31 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 08 14:20:19 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 9.15  | 196  | 132351   | 27.338 | nq    | 100      |
| 43) 2,4,5-Trichlorophenol      | 9.20  | 196  | 140990   | 25.320 | nq    | 97       |
| 45) 1,1'-Biphenyl              | 9.32  | 154  | 624203   | 28.304 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 9.35  | 162  | 492592   | 28.233 | nq    | 98       |
| 47) 2-Nitroaniline             | 9.46  | 65   | 198954   | 30.784 | nq    | 84       |
| 48) Acenaphthylene             | 9.77  | 152  | 764564   | 28.481 | nq    | 99       |
| 49) Dimethylphthalate          | 9.62  | 163  | 565138   | 26.767 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 125032   | 28.220 | nq    | 92       |
| 51) Acenaphthene               | 9.94  | 154  | 444995   | 28.428 | nq    | 100      |
| 52) 3-Nitroaniline             | 9.87  | 138  | 112581   | 20.028 | nq    | # 99     |
| 53) 2,4-Dinitrophenol          | 10.00 | 184  | 29845    | 26.027 | nq    | # 23     |
| 54) Dibenzofuran               | 10.11 | 168  | 624603   | 29.067 | nq    | 95       |
| 55) 4-Nitrophenol              | 10.06 | 139  | 124556   | 35.752 | nq    | # 87     |
| 56) 2,4-Dinitrotoluene         | 10.11 | 165  | 152904   | 27.287 | nq    | # 70     |
| 57) Fluorene                   | 10.46 | 166  | 510547   | 27.891 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.24 | 232  | 99403    | 26.574 | nq    | # 96     |
| 59) Diethylphthalate           | 10.32 | 149  | 561242   | 27.794 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.44 | 204  | 223103   | 28.741 | nq    | 95       |
| 61) 4-Nitroaniline             | 10.49 | 138  | 149068   | 26.550 | nq    | 97       |
| 62) Azobenzene                 | 10.60 | 77   | 639134   | 31.095 | nq    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198  | 36548    | 17.030 | nq    | # 80     |
| 65) n-Nitrosodiphenylamine     | 10.56 | 169  | 458536   | 29.539 | nq    | 100      |
| 66) 4-Bromophenyl-phenylether  | 10.93 | 248  | 130539   | 28.108 | nq    | 98       |
| 67) Hexachlorobenzene          | 11.01 | 284  | 132993   | 26.383 | nq    | 95       |
| 68) Atrazine                   | 11.09 | 200  | 141633   | 30.356 | nq    | 99       |
| 69) Pentachlorophenol          | 11.21 | 266  | 70048    | 28.740 | nq    | 99       |
| 70) Phenanthrene               | 11.42 | 178  | 718061   | 29.267 | nq    | 99       |
| 71) Anthracene                 | 11.47 | 178  | 768234   | 30.535 | nq    | 100      |
| 72) Carbazole                  | 11.64 | 167  | 744751   | 29.725 | nq    | 99       |
| 73) Di-n-butylphthalate        | 11.95 | 149  | 948632   | 30.259 | nq    | 99       |
| 74) Fluoranthene               | 12.62 | 202  | 731653   | 29.676 | nq    | 98       |
| 76) Benzidine                  | 12.75 | 184  | 422040   | 38.299 | nq    | 99       |
| 77) Pyrene                     | 12.85 | 202  | 730008   | 31.765 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.45 | 149  | 396876   | 32.687 | nq    | 97       |
| 80) Benzo(a)anthracene         | 14.05 | 228  | 537258   | 28.092 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.00 | 252  | 154711   | 22.667 | nq    | 99       |
| 82) Chrysene                   | 14.08 | 228  | 533360   | 28.722 | nq    | 100      |
| 83) Bis(2-ethylhexyl)phthalate | 14.00 | 149  | 493369   | 30.111 | nq    | # 98     |
| 84) Di-n-octyl phthalate       | 14.62 | 149  | 811700   | 30.661 | nq    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.10 | 276  | 478192   | 32.527 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 15.11 | 252  | 482563   | 28.451 | nq    | 98       |
| 88) Benzo(k)fluoranthene       | 15.14 | 252  | 439121   | 27.494 | nq    | 99       |
| 89) Benzo(a)pyrene             | 15.49 | 252  | 441492   | 29.148 | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 17.10 | 278  | 396285   | 33.860 | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.56 | 276  | 409288   | 35.781 | nq    | 99       |

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



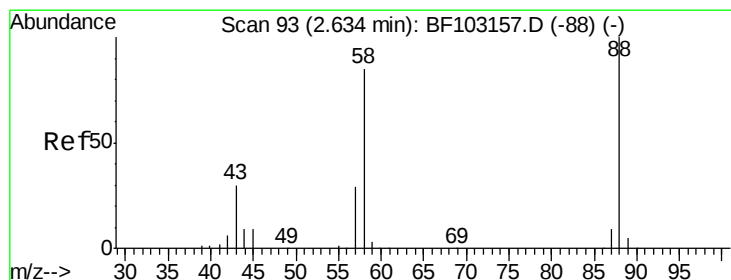
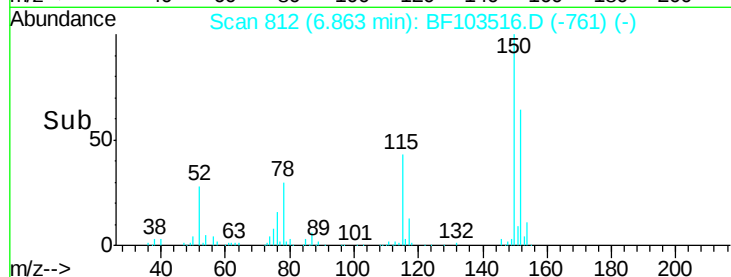
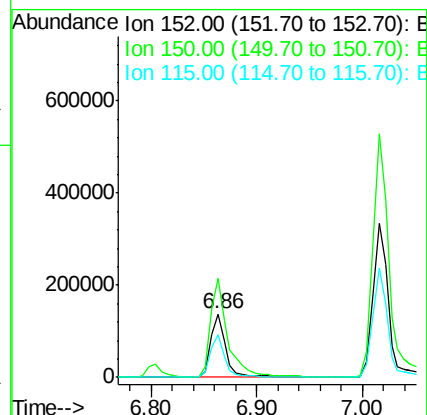
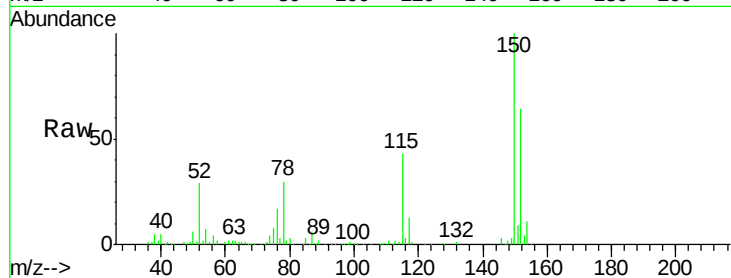


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :

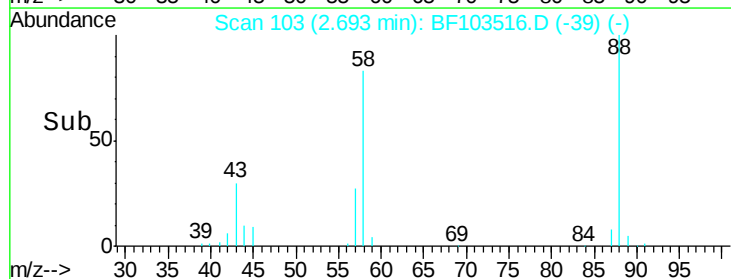
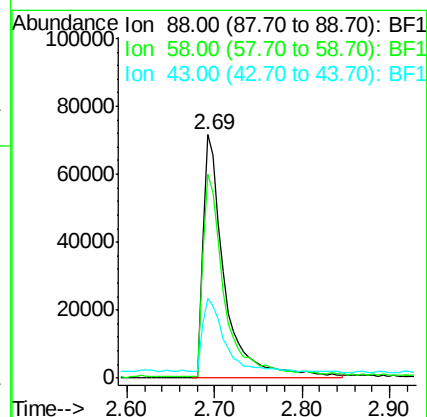
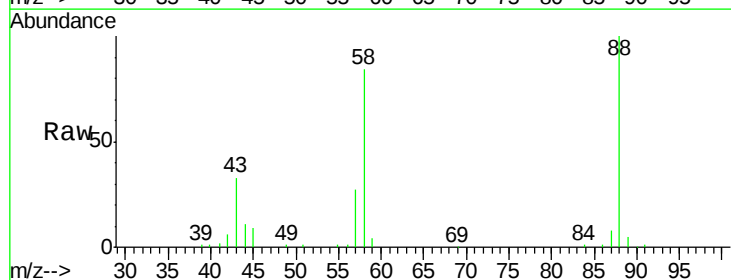
Tot Ion:152 Resp: 138006  
Ion Ratio Lower Upper  
152 100  
150 156.5 124.6 186.8  
115 66.9 50.1 75.1



#2

1,4-Dioxane  
Concen: 25.587 ng  
RT: 2.69 min Scan# 103  
Delta R.T. 0.08 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion: 88 Resp: 123312  
Ion Ratio Lower Upper  
88 100  
58 81.1 62.6 93.8  
43 31.8 24.6 37.0





#3

Pvridine

Concen: 21.655 ng

RT: 3.52 min Scan# 243

Delta R.T. 0.10 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

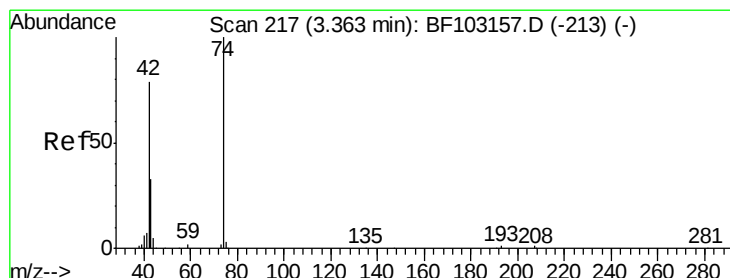
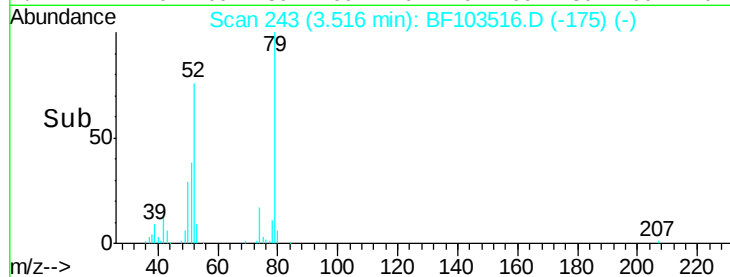
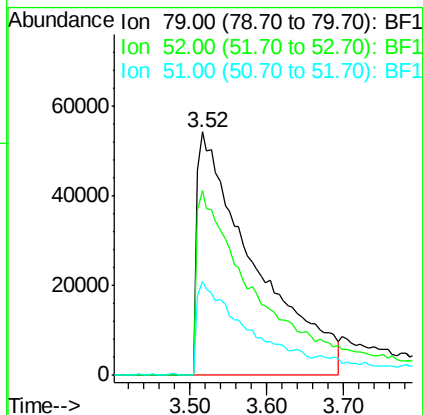
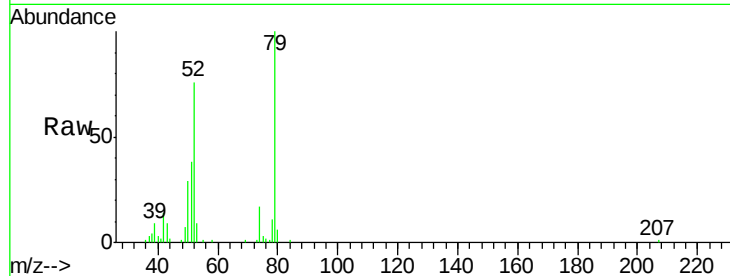
Tot Ion: 79 Resp: 278625

Ion Ratio Lower Upper

79 100

52 75.7 59.8 89.6

51 38.4 29.8 44.8



#4

n-Nitrosodimethylamine

Concen: 27.979 ng

RT: 3.45 min Scan# 231

Delta R.T. 0.07 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

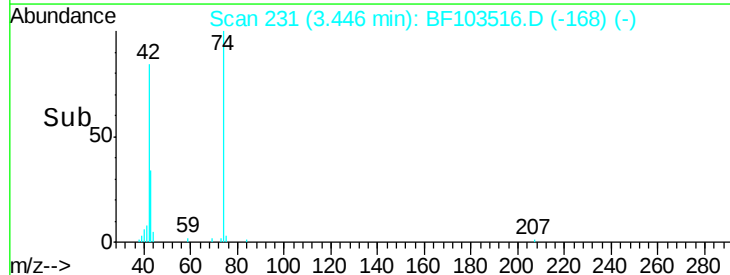
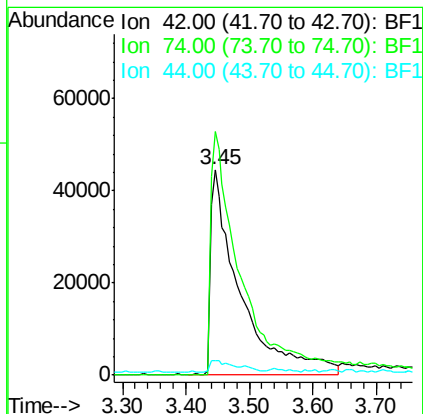
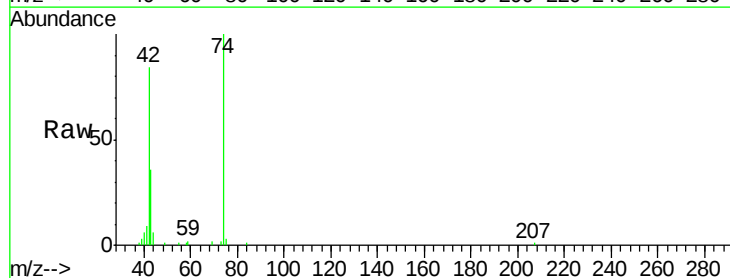
Tgt Ion: 42 Resp: 145180

Ion Ratio Lower Upper

42 100

74 118.5 104.9 157.3

44 7.2 6.9 10.3





#5

2-Fluorophenol

Concen: 97.108 ng

RT: 5.49 min Scan# 579

Delta R.T. 0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampled :

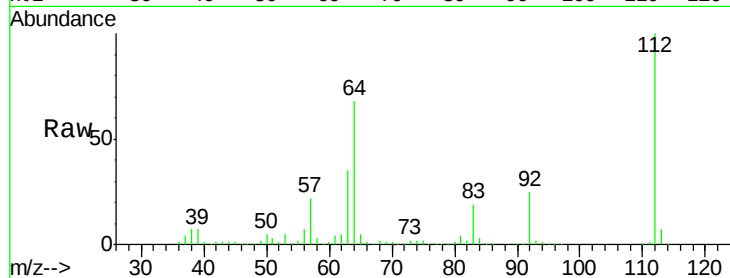
Tot Ion:112 Resp: 886090

Ion Ratio Lower Upper

112 100

64 67.6 47.9 71.9

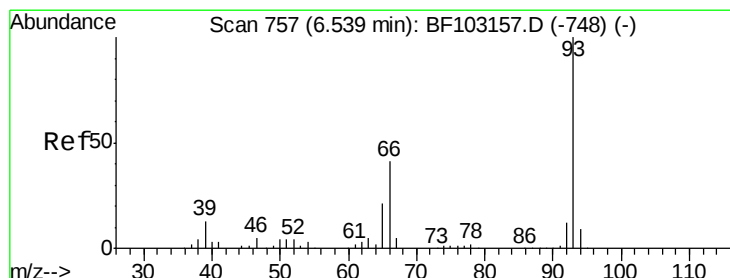
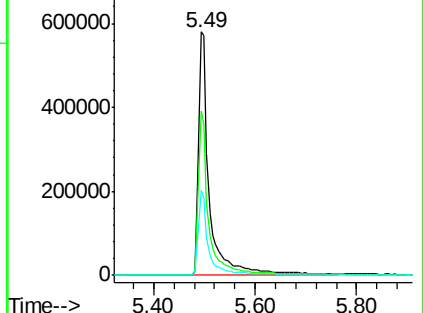
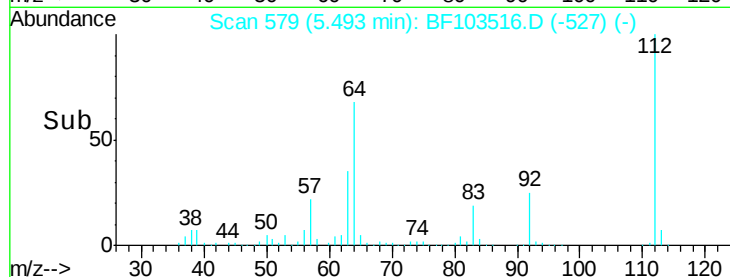
63 35.0 23.7 35.5



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



#6

Aniline

Concen: 17.776 ng

RT: 6.53 min Scan# 756

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

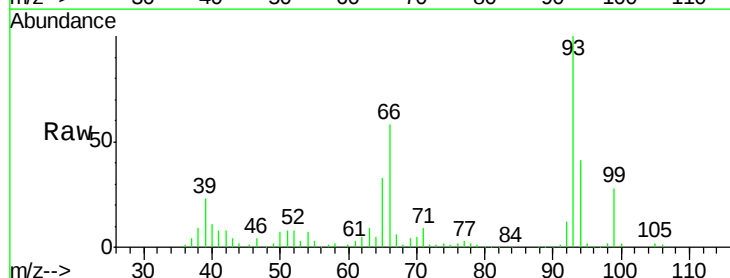
Tgt Ion: 93 Resp: 286449

Ion Ratio Lower Upper

93 100

66 58.5 32.2 48.2#

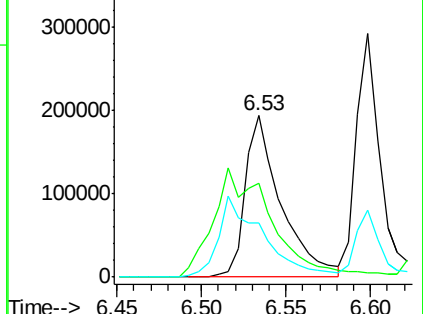
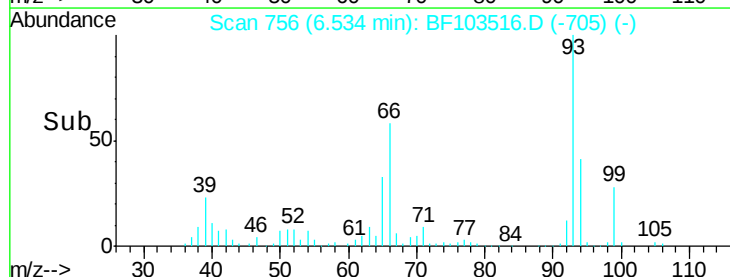
65 33.2 16.4 24.6#

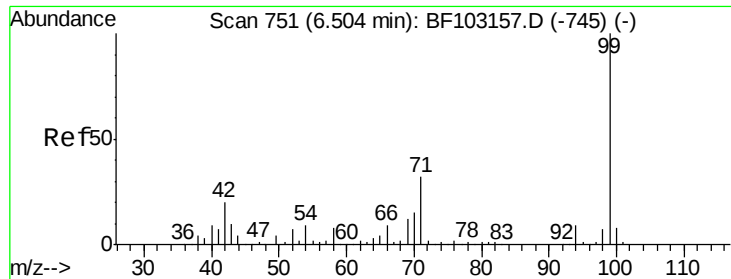


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 94.320 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

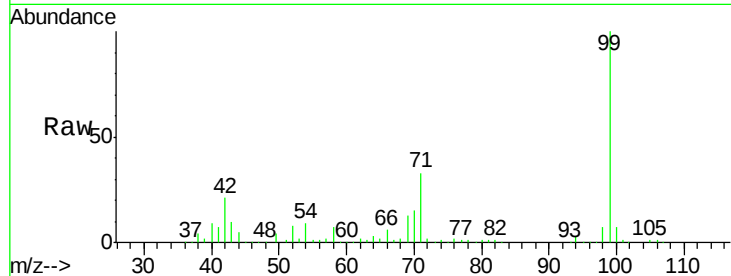
Tot Ion: 99 Resp: 1053130

Ion Ratio Lower Upper

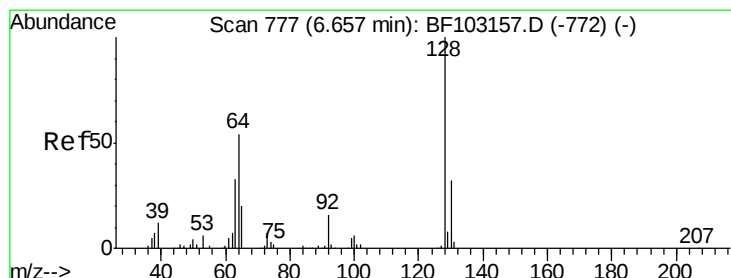
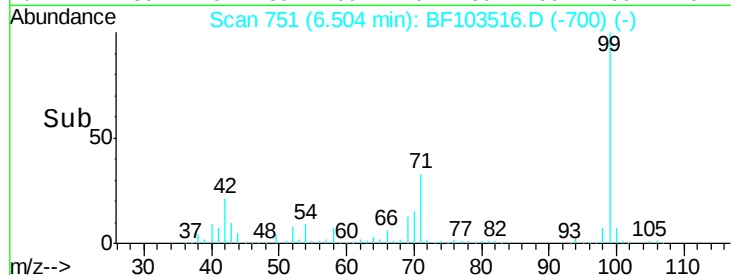
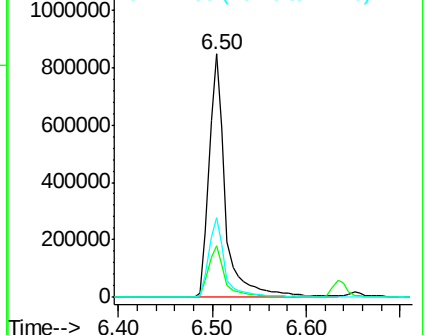
99 100

42 21.1 14.5 21.7

71 32.8 25.4 38.0



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



#8

2-Chlorophenol

Concen: 30.712 ng

RT: 6.65 min Scan# 776

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

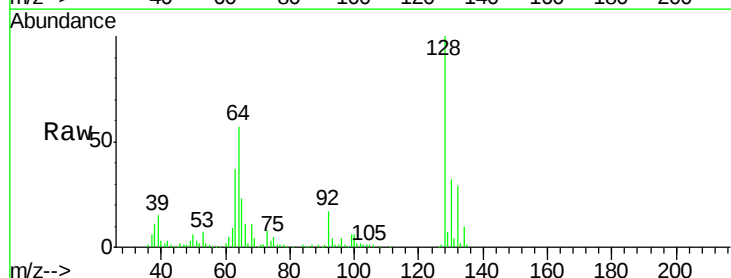
Tgt Ion: 128 Resp: 291123

Ion Ratio Lower Upper

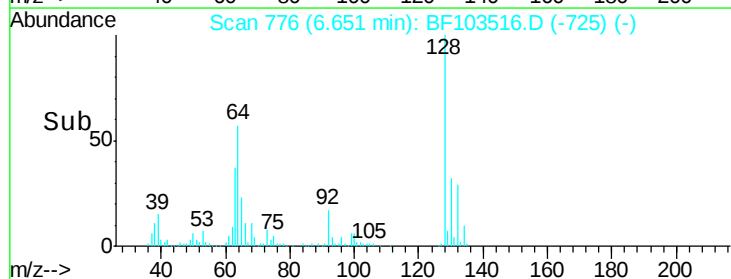
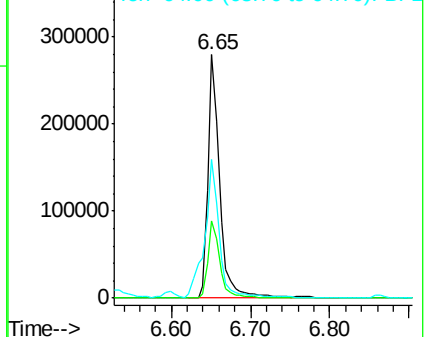
128 100

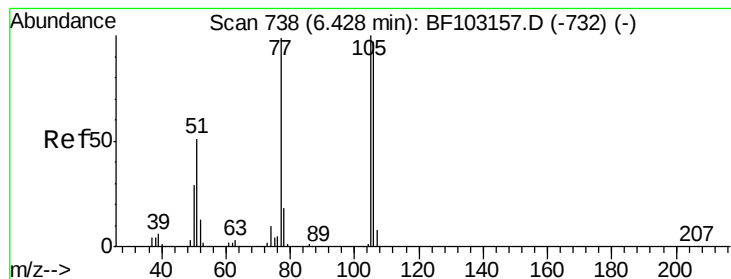
130 31.6 13.0 53.0

64 56.8 29.4 69.4



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 22.141 ng

RT: 6.42 min Scan# 737

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampled :

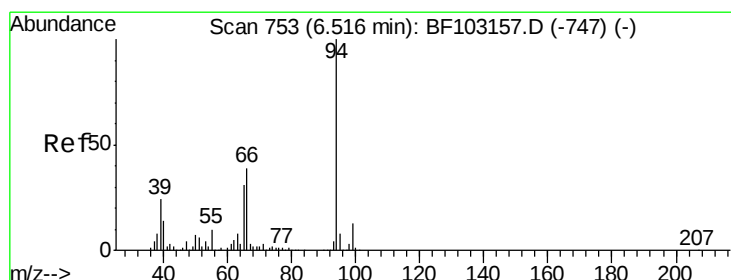
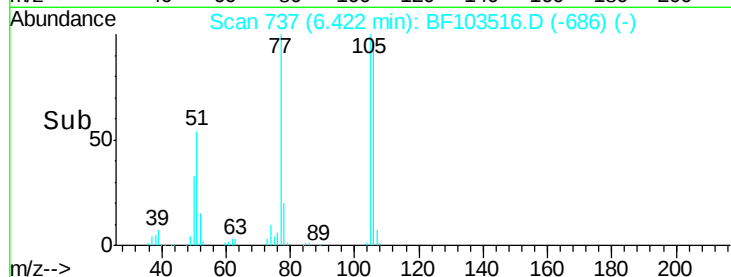
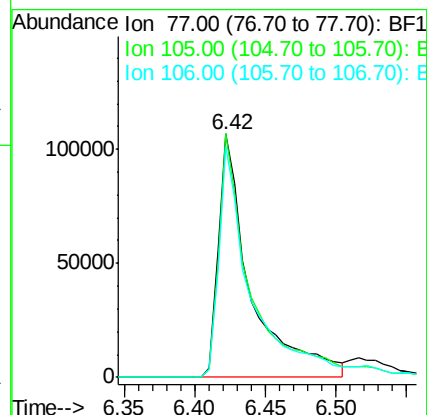
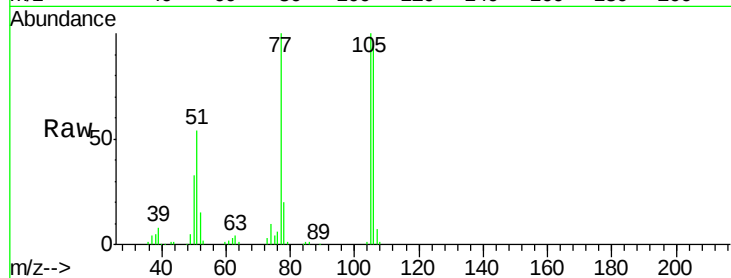
Tot Ion: 77 Resp: 170875

Ion Ratio Lower Upper

77 100

105 100.0 81.1 121.1

106 95.0 74.5 114.5



#10

Phenol

Concen: 29.454 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

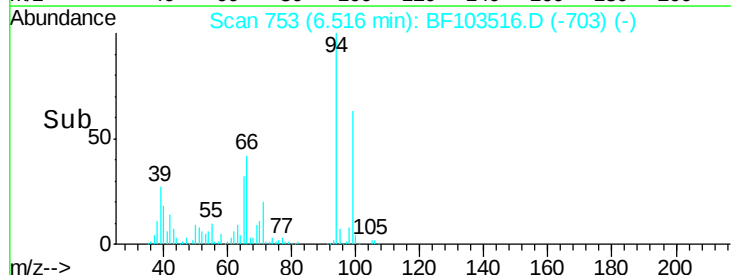
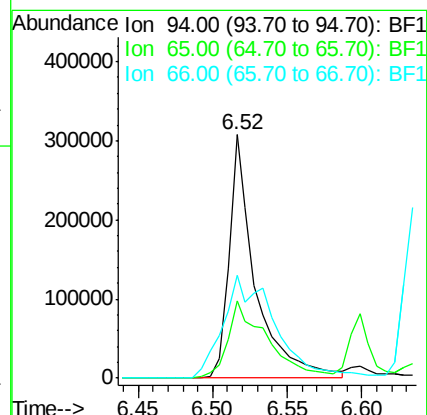
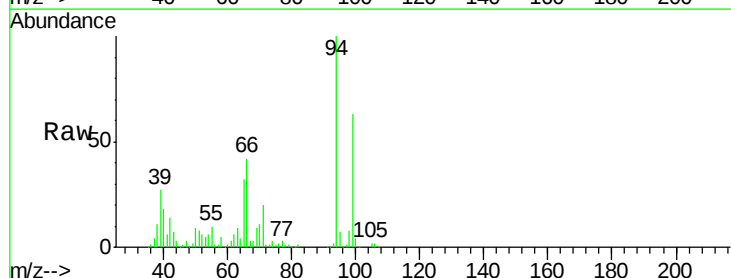
Tgt Ion: 94 Resp: 381787

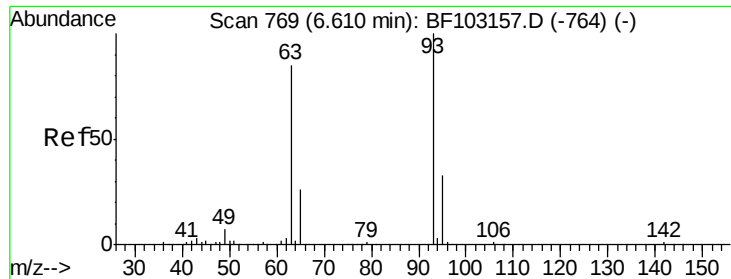
Ion Ratio Lower Upper

94 100

65 31.6 7.9 47.9

66 42.4 16.2 56.2

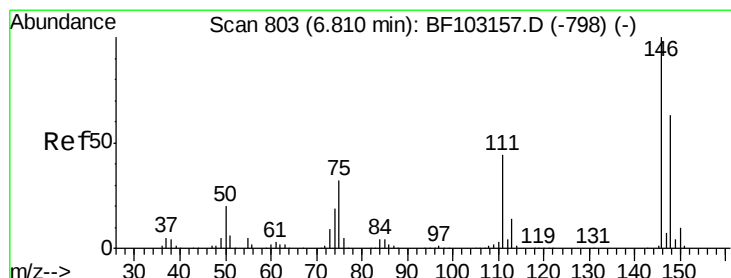
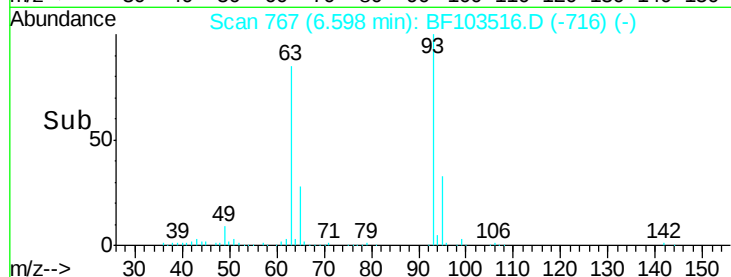
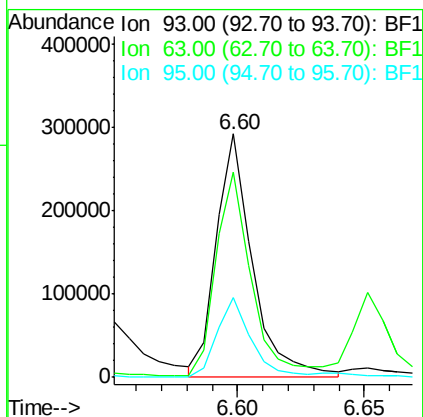
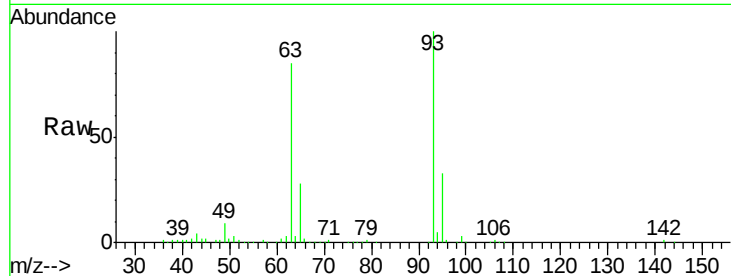




#11  
bis(2-Chloroethyl)ether  
Concen: 29.423 ng  
RT: 6.60 min Scan# 767  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

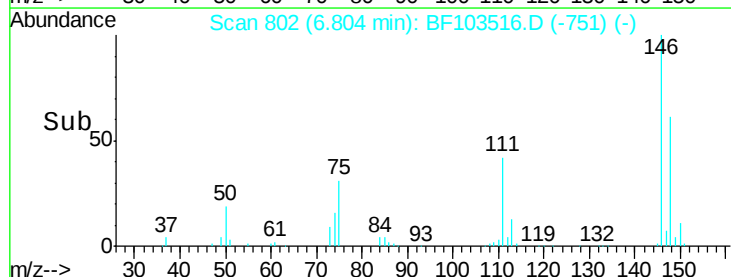
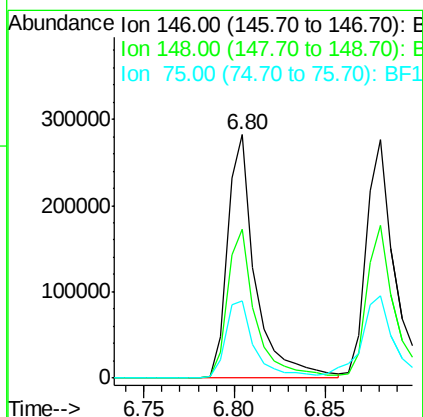
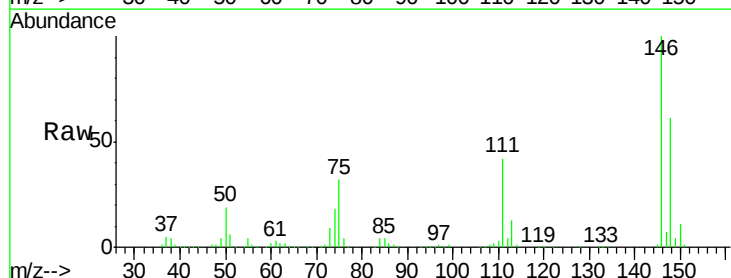
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 93 Resp: 289454  
Ion Ratio Lower Upper  
93 100  
63 84.5 58.6 98.6  
95 32.5 11.8 51.8



#12  
1,3-Dichlorobenzene  
Concen: 27.788 ng  
RT: 6.80 min Scan# 802  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion: 146 Resp: 301011  
Ion Ratio Lower Upper  
146 100  
148 61.3 51.8 77.8  
75 31.8 24.2 36.4





#13

1,4-Dichlorobenzene

Concen: 29.711 ng

RT: 6.88 min Scan# 815

Delta R.T. 0.00 min

Lab File: BF103516.D

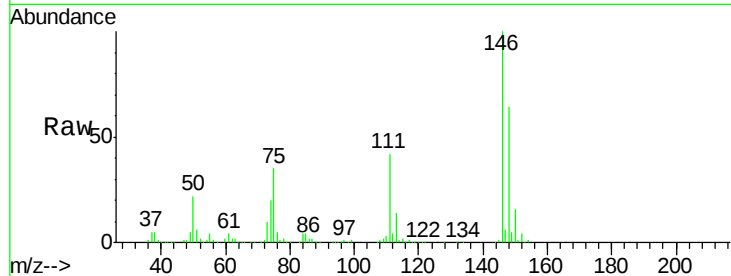
Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampled :

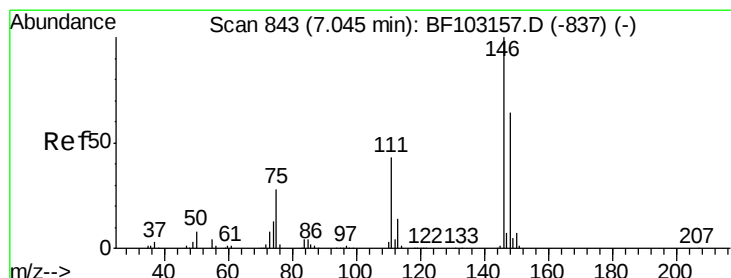
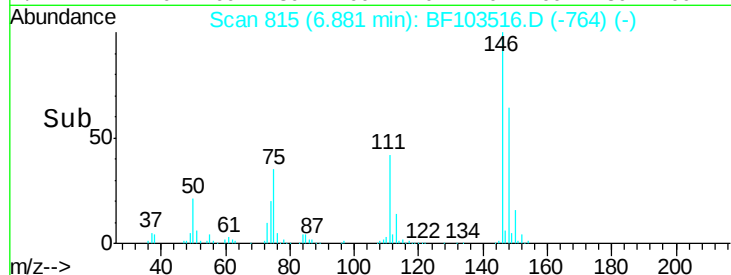
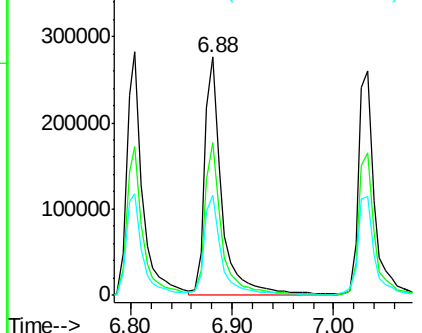
|             |       |           |
|-------------|-------|-----------|
| Tot Ion:146 | Resp: | 322677    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 148         | 64.2  | 50.8 76.2 |
| 111         | 42.2  | 34.2 51.2 |



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 27.835 ng

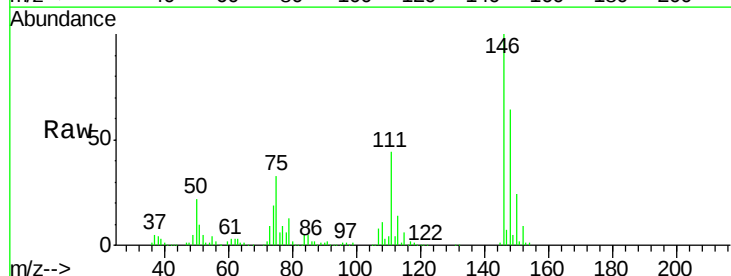
RT: 7.03 min Scan# 841

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

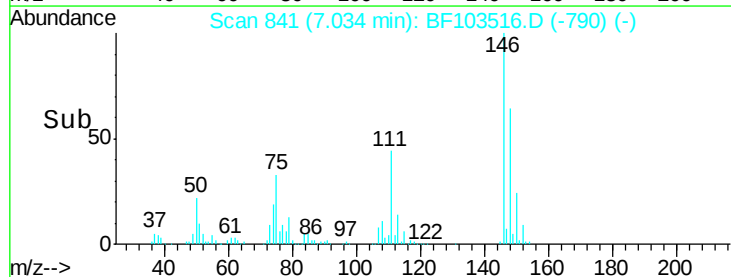
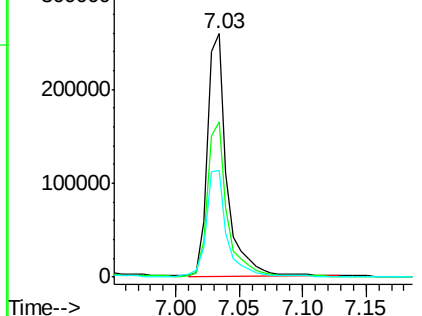
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 278748    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 148         | 63.6  | 50.6 75.8 |
| 111         | 43.9  | 36.0 54.0 |



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 28.139 ng

RT: 7.01 min Scan# 837

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

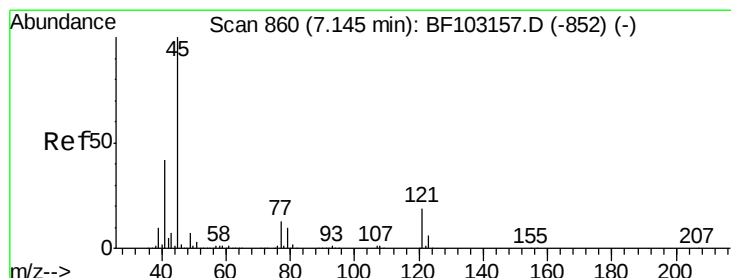
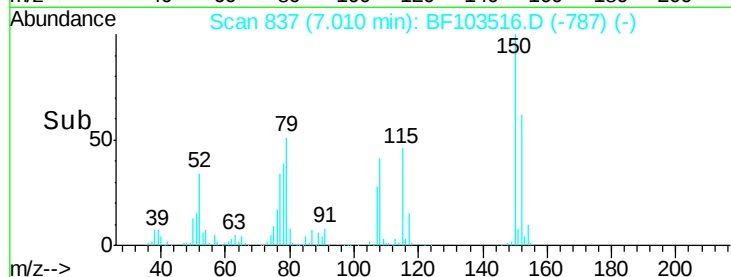
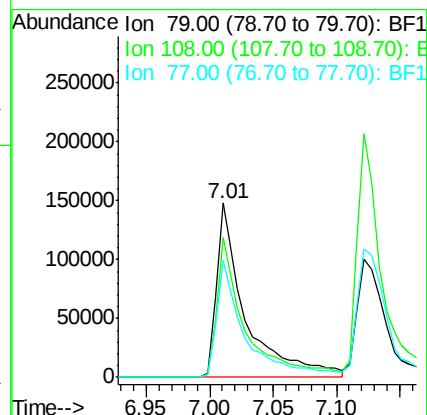
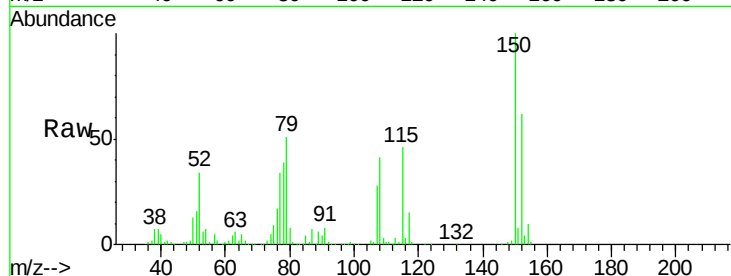
Tot Ion: 79 Resp: 236753

Ion Ratio Lower Upper

79 100

108 80.4 65.1 97.7

77 66.8 50.6 75.8



#16

2,2'-oxybis(1-Chloropropane)

Concen: 27.271 ng

RT: 7.13 min Scan# 858

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

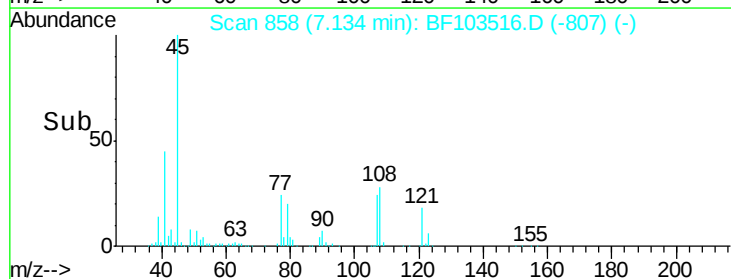
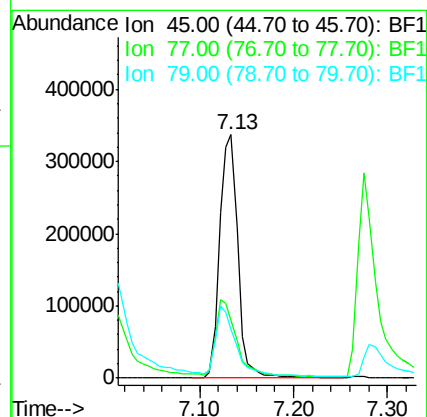
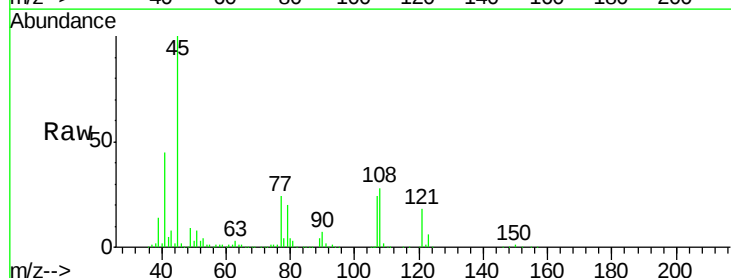
Tgt Ion: 45 Resp: 460703

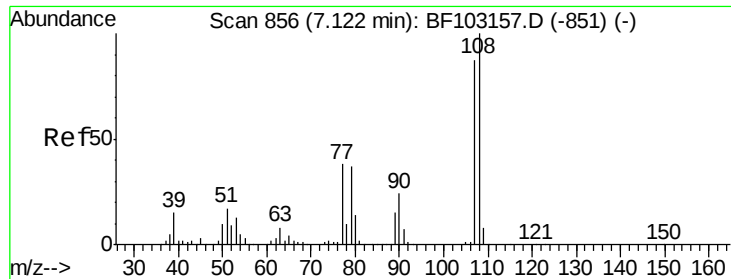
Ion Ratio Lower Upper

45 100

77 23.9 0.0 32.9

79 20.4 0.0 29.6

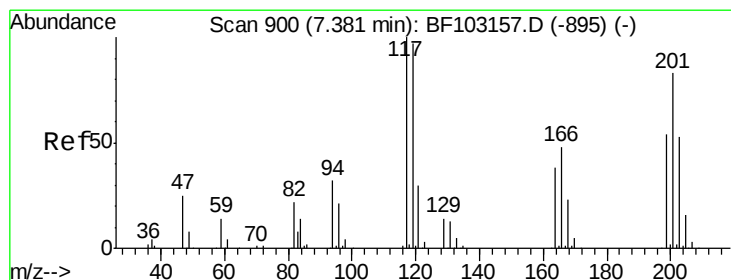
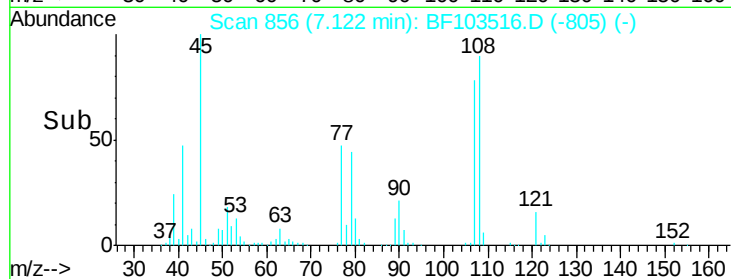
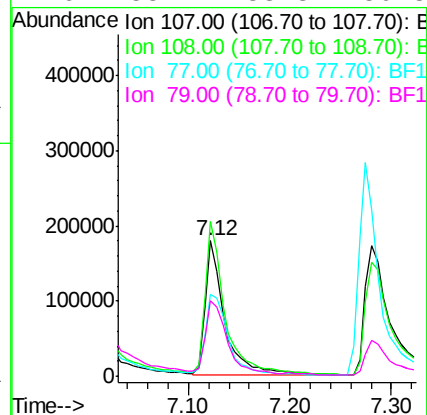
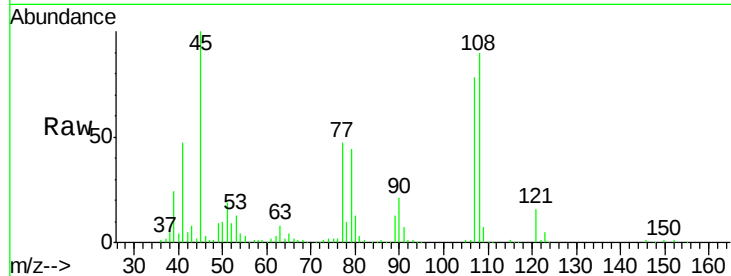




#17  
2-Methylphenol  
Concen: 28.016 ng  
RT: 7.12 min Scan# 856  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

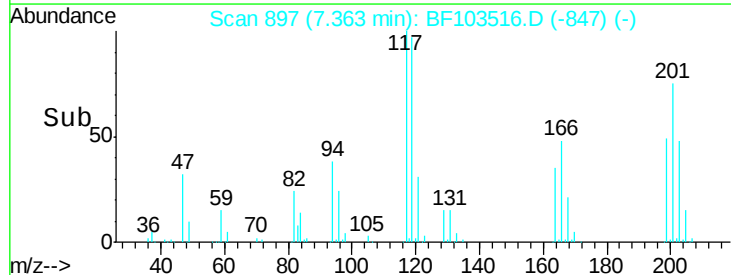
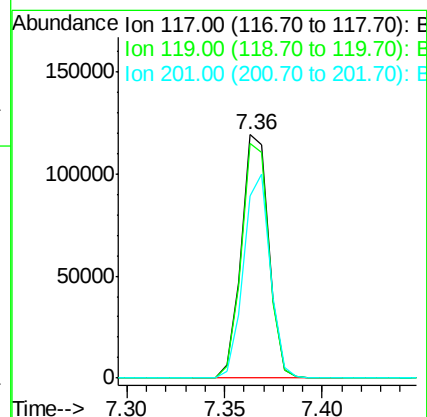
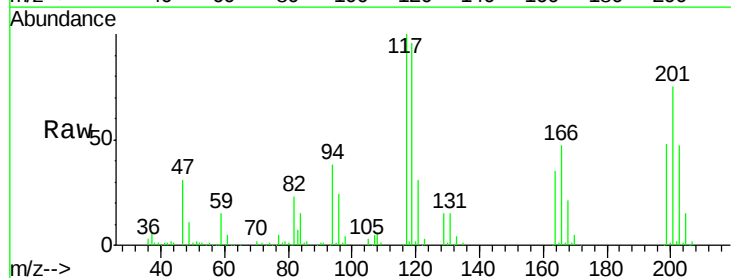
Instrument :  
BNA\_F  
ClientSampled :

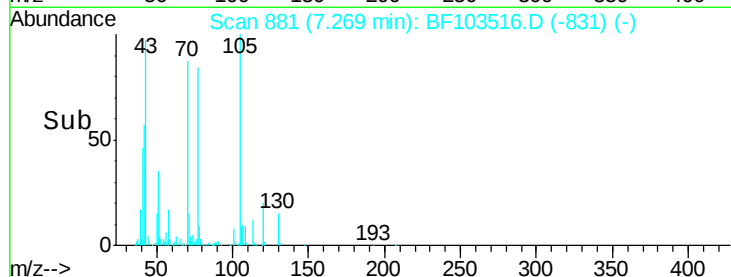
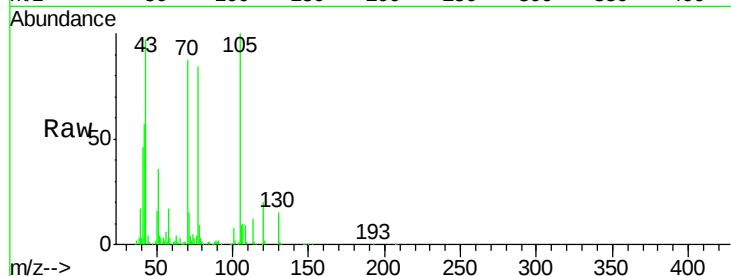
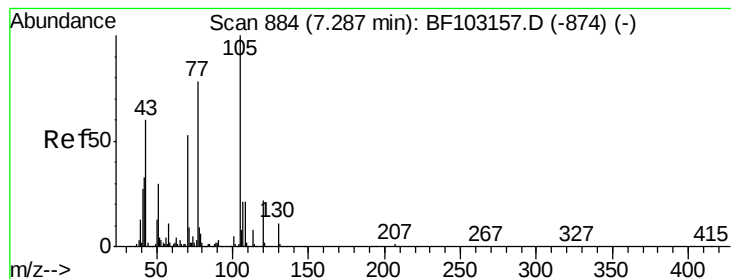
Tot Ion:107 Resp: 241338  
Ion Ratio Lower Upper  
107 100  
108 115.0 91.7 137.5  
77 60.6 33.8 50.8#  
79 55.7 33.8 50.8#



#18  
Hexachloroethane  
Concen: 29.474 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:117 Resp: 116529  
Ion Ratio Lower Upper  
117 100  
119 96.3 75.8 113.8  
201 74.6 75.7 113.5#





#19

n-Nitroso-di-n-propylamine

Concen: 31.441 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 218485

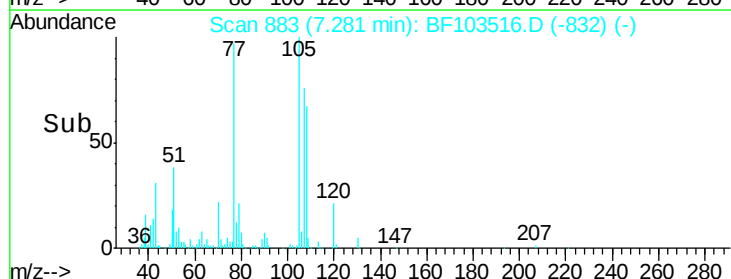
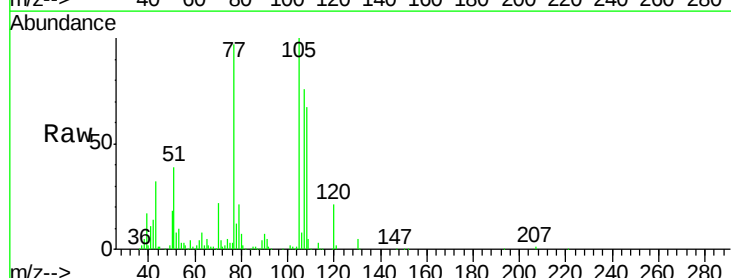
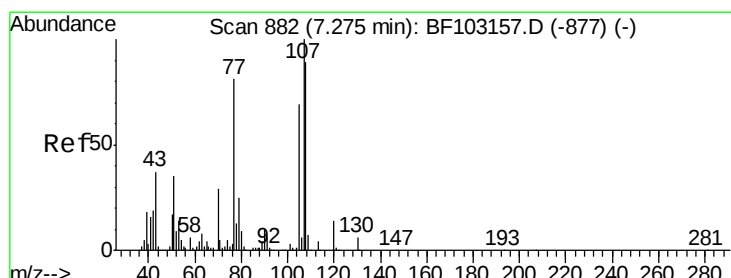
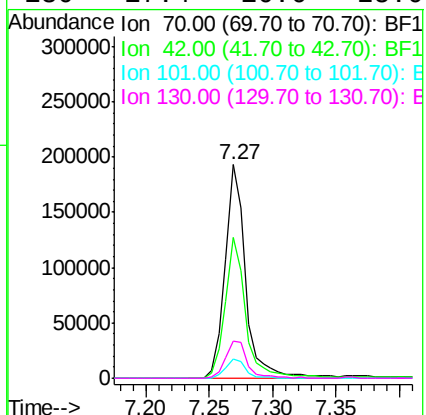
Ion Ratio Lower Upper

70 100

42 65.9 47.5 71.3

101 8.8 7.4 11.2

130 17.4 16.6 25.0



#20

3+4-Methylphenols

Concen: 30.328 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Tgt Ion:107 Resp: 318468

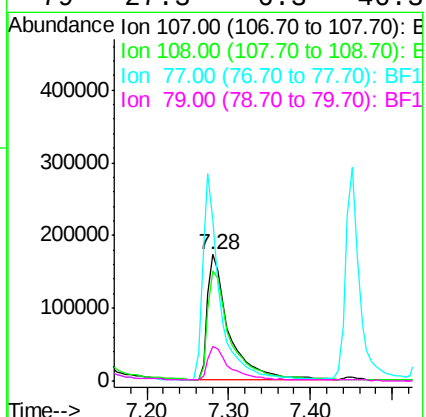
Ion Ratio Lower Upper

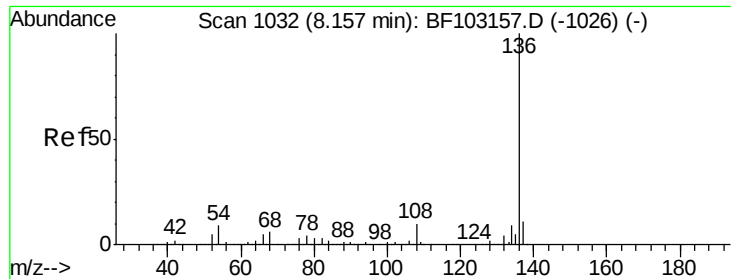
107 100

108 87.7 68.2 108.2

77 127.9 26.7 66.7#

79 27.3 6.3 46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 577677

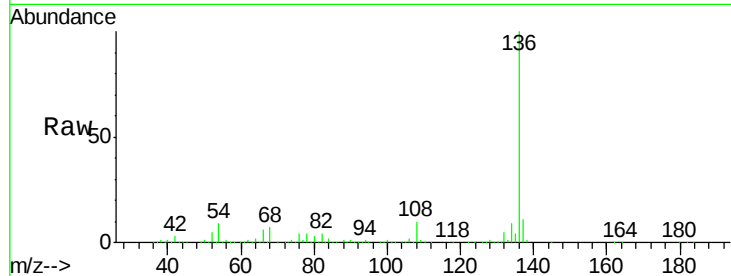
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.2 6.6 9.8

68 6.5 5.0 7.4

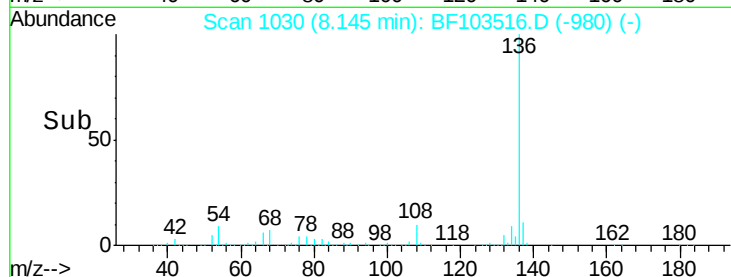


Abundance Ion 136.00 (135.70 to 136.70): E

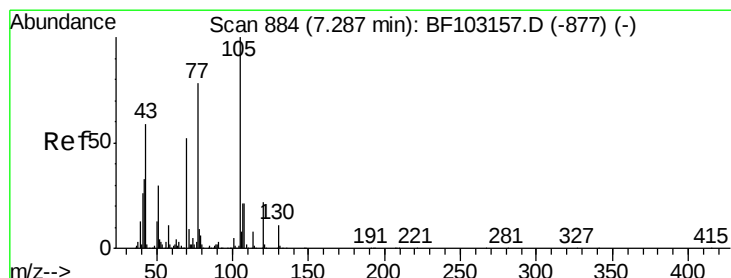
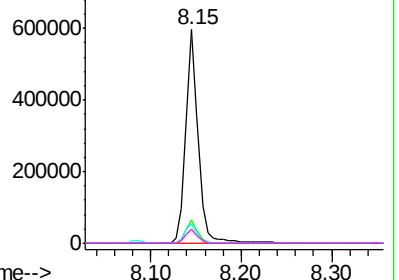
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->



#22

Acetophenone

Concen: 30.670 ng

RT: 7.27 min Scan# 882

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Tgt Ion:105 Resp: 413548

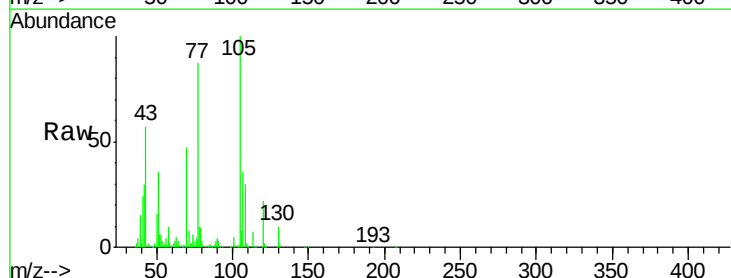
Ion Ratio Lower Upper

105 100

71 8.2 4.4 6.6#

51 36.3 22.3 33.5#

120 21.7 16.9 25.3

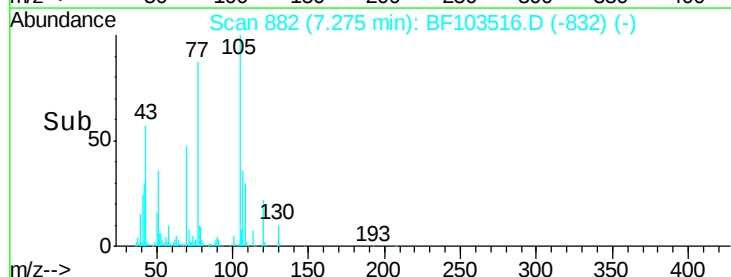


Abundance Ion 105.00 (104.70 to 105.70): E

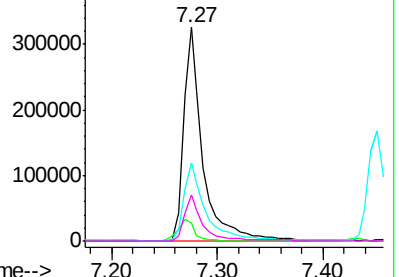
Ion 71.00 (70.70 to 71.70): BF1

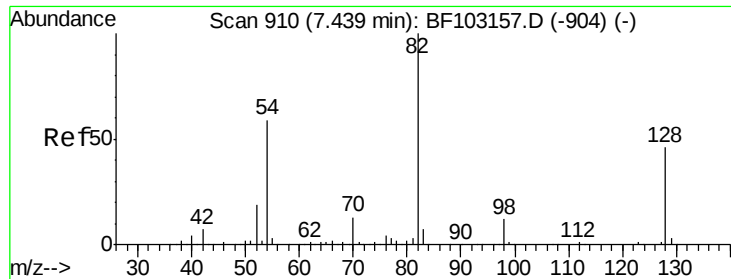
Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



Time-->

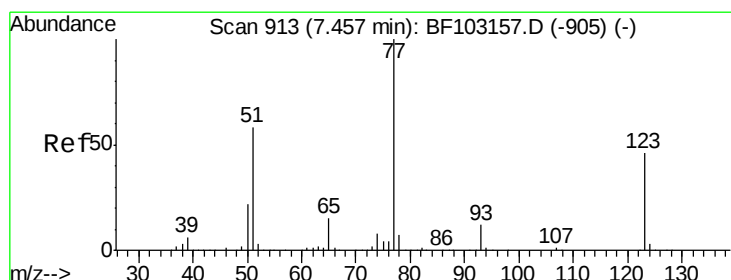
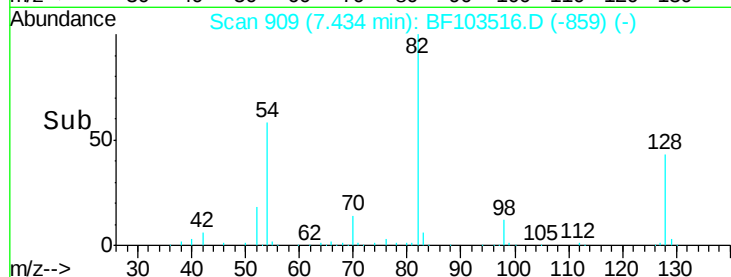
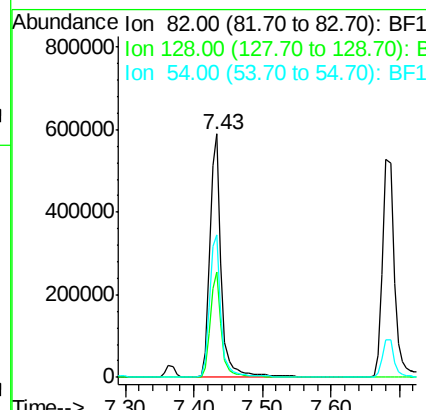
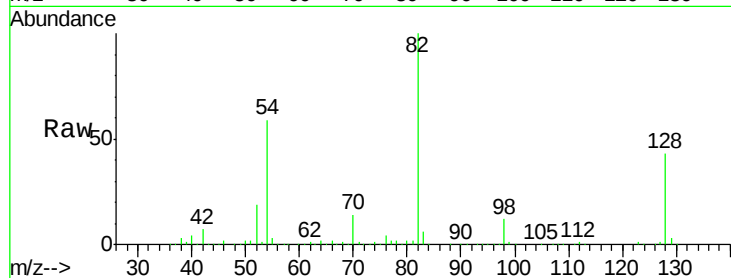




#23  
Nitrobenzene-d5  
Concen: 69.464 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

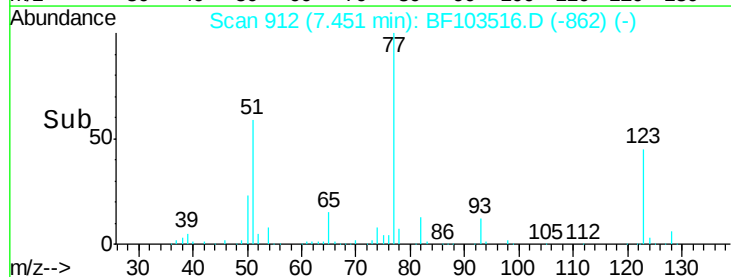
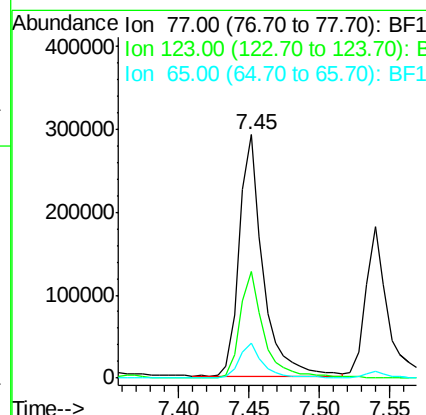
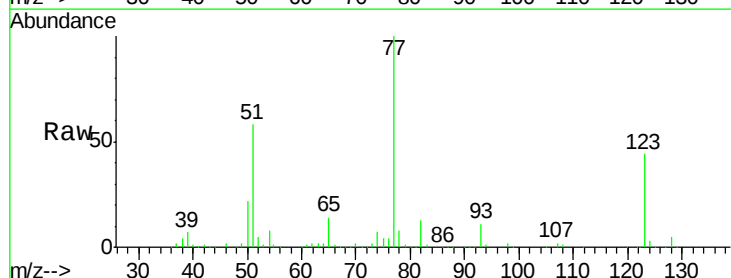
Instrument :  
BNA\_F  
ClientSampled :

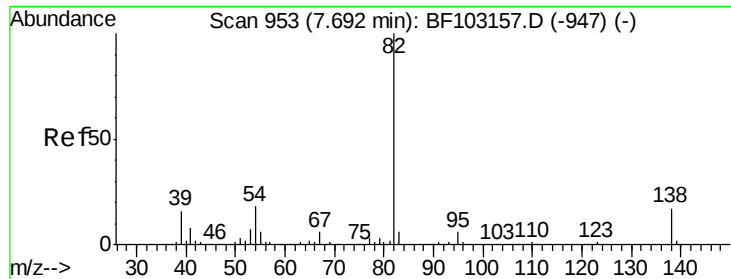
Tot Ion: 82 Resp: 702659  
Ion Ratio Lower Upper  
82 100  
128 43.5 36.1 54.1  
54 58.8 41.4 62.2



#24  
Nitrobenzene  
Concen: 31.133 ng  
RT: 7.45 min Scan# 912  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion: 77 Resp: 346736  
Ion Ratio Lower Upper  
77 100  
123 43.8 37.9 56.9  
65 14.4 11.0 16.4

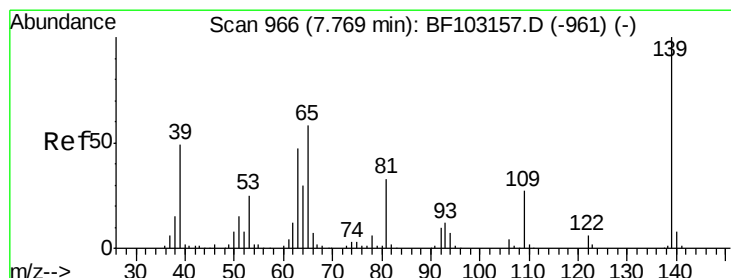
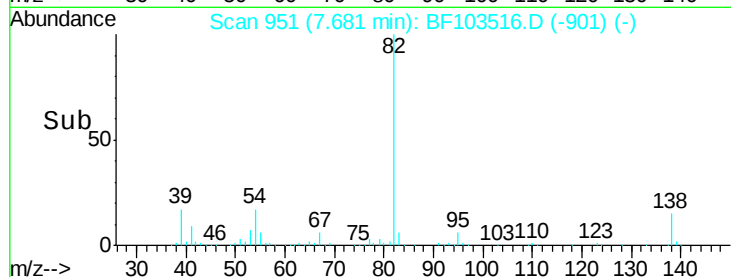
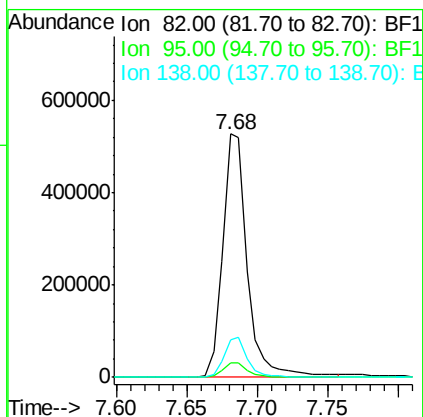
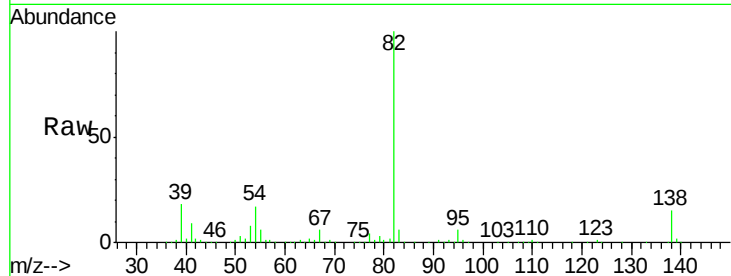




#25  
Isophorone  
Concen: 31.670 ng  
RT: 7.68 min Scan# 951  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

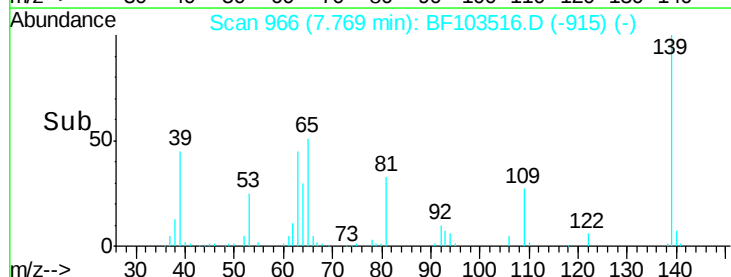
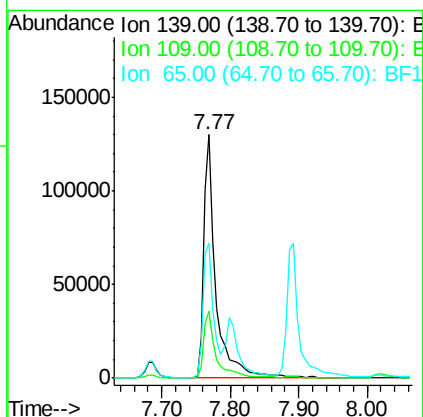
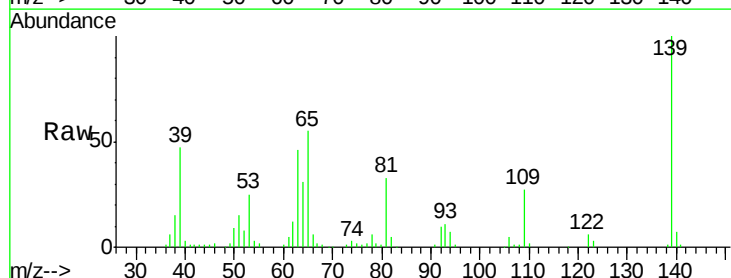
Instrument :  
BNA\_F  
ClientSampleId :

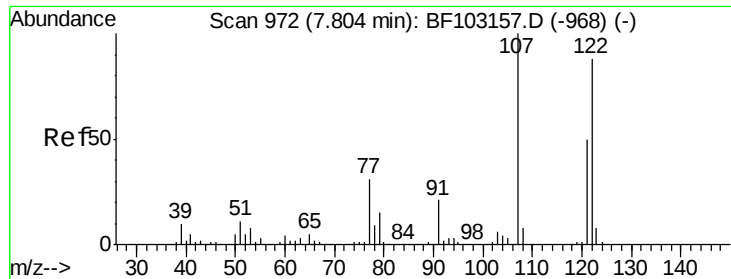
Tot Ion: 82 Resp: 630945  
Ion Ratio Lower Upper  
82 100  
95 6.1 5.2 7.8  
138 15.3 14.9 22.3



#26  
2-Nitrophenol  
Concen: 31.595 ng  
RT: 7.77 min Scan# 966  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion: 139 Resp: 165648  
Ion Ratio Lower Upper  
139 100  
109 27.4 22.7 34.1  
65 55.4 40.5 60.7

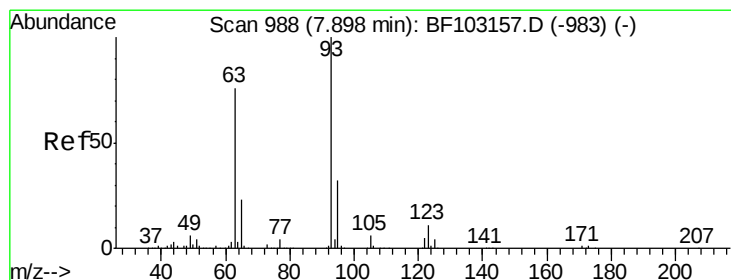
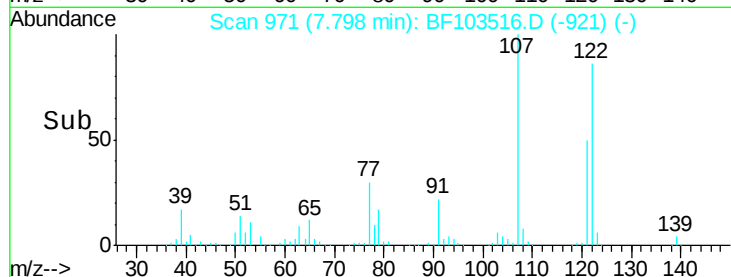
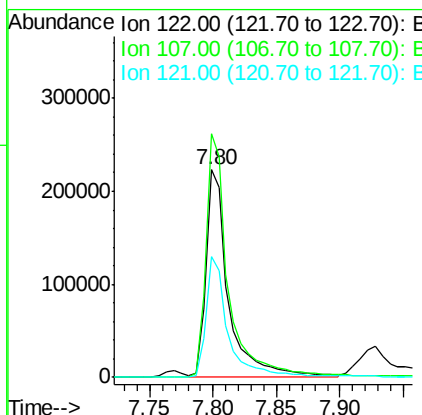
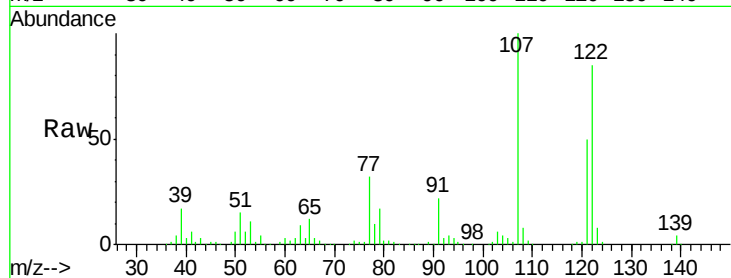




#27  
 2,4-Dimethylphenol  
 Concen: 34.517 ng  
 RT: 7.80 min Scan# 971  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

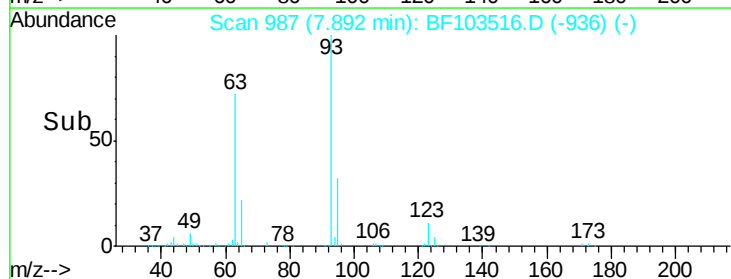
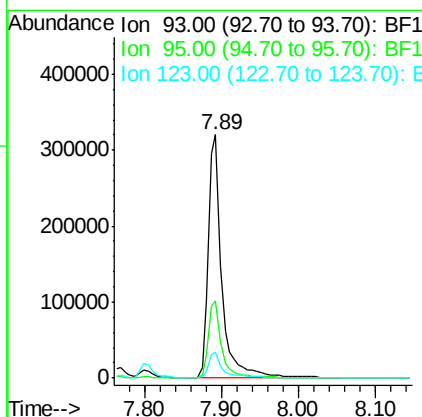
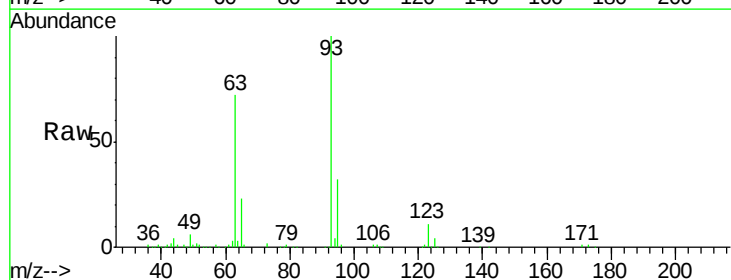
Instrument :  
 BNA\_F  
 ClientSampleId :

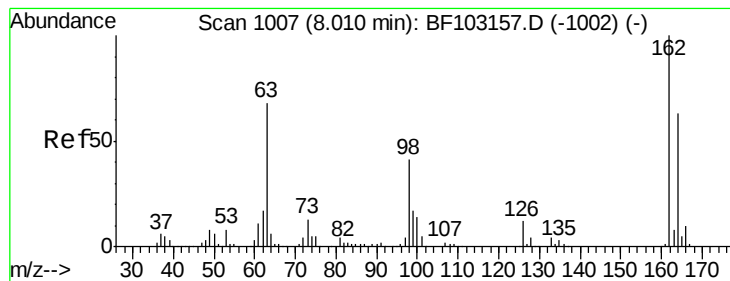
Tot Ion:122 Resp: 276619  
 Ion Ratio Lower Upper  
 122 100  
 107 117.3 91.2 136.8  
 121 58.1 47.2 70.8



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 32.935 ng  
 RT: 7.89 min Scan# 987  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion: 93 Resp: 385770  
 Ion Ratio Lower Upper  
 93 100  
 95 32.0 26.3 39.5  
 123 10.8 9.8 14.6





#29

2,4-Dichlorophenol

Concen: 32.383 ng

RT: 8.02 min Scan# 1008

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

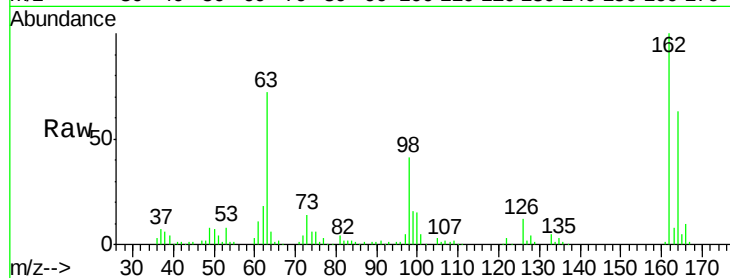
Tot Ion:162 Resp: 248463

Ion Ratio Lower Upper

162 100

164 63.4 42.7 82.7

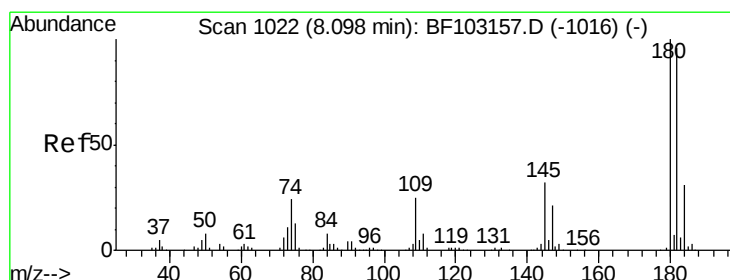
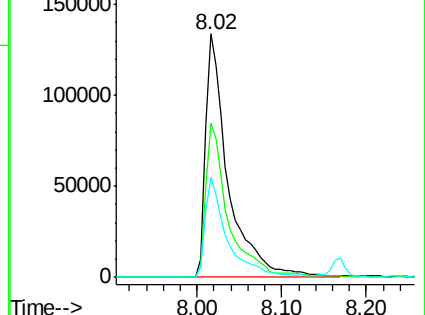
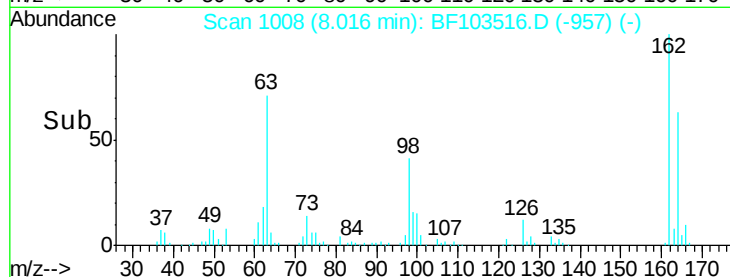
98 41.3 18.1 58.1



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF1



#30

1,2,4-Trichlorobenzene

Concen: 28.923 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

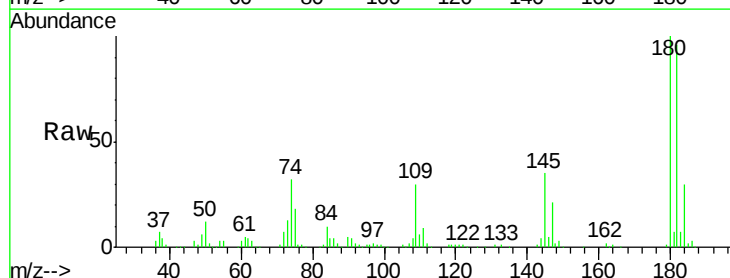
Tgt Ion:180 Resp: 236319

Ion Ratio Lower Upper

180 100

182 95.9 76.8 115.2

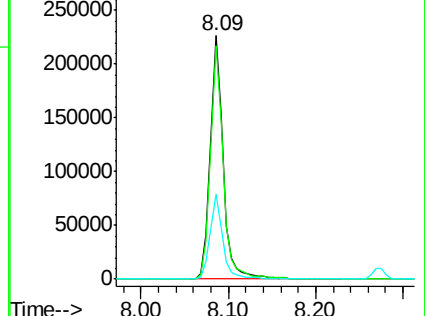
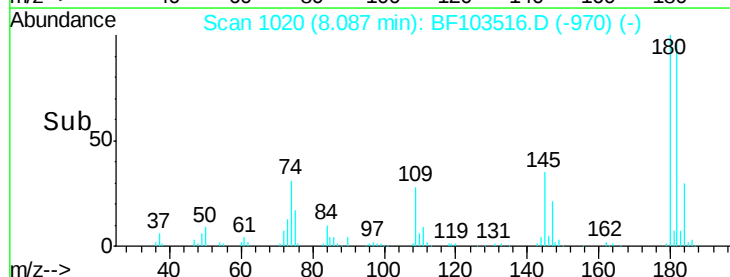
145 34.7 26.5 39.7

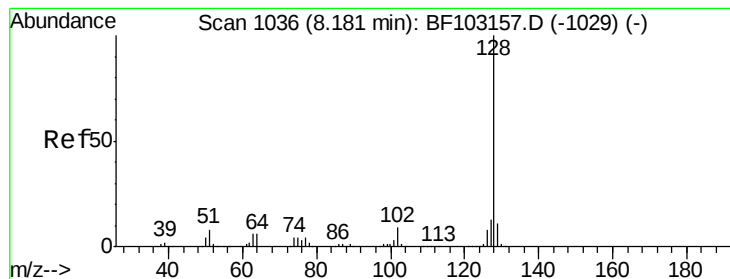


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 29.349 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

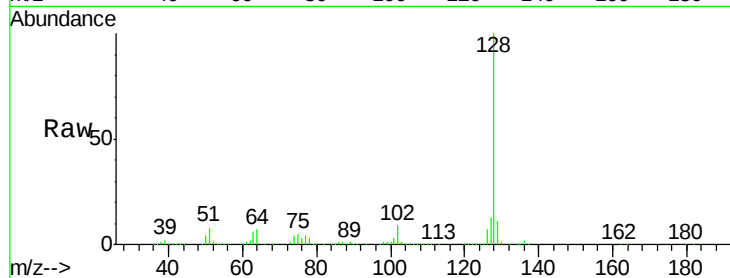
Tot Ion:128 Resp: 830041

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

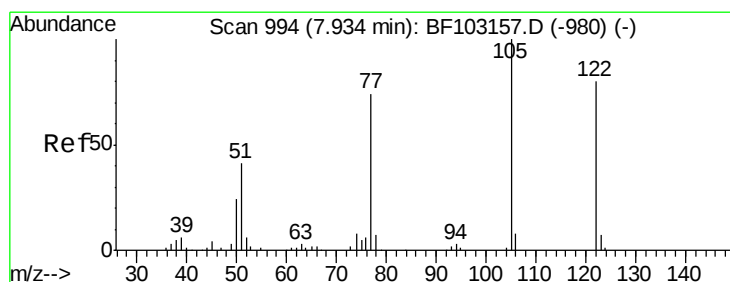
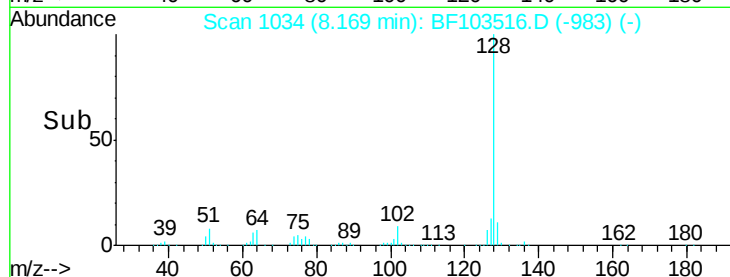
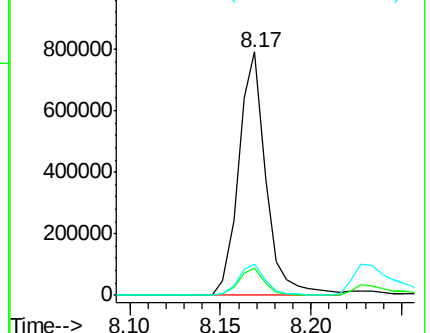
127 13.0 10.9 16.3



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: 17.848 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.04 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

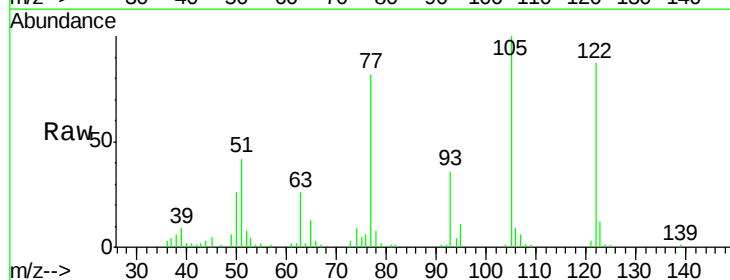
Tgt Ion:122 Resp: 75947

Ion Ratio Lower Upper

122 100

105 114.5 101.1 141.1

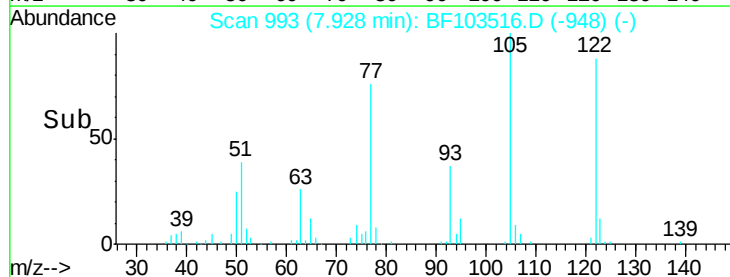
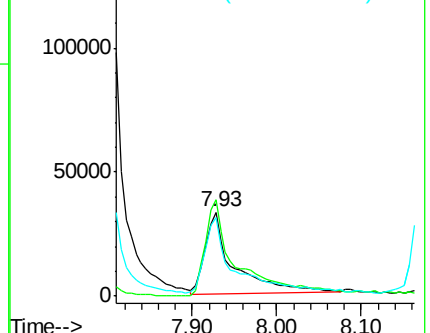
77 93.5 70.7 110.7

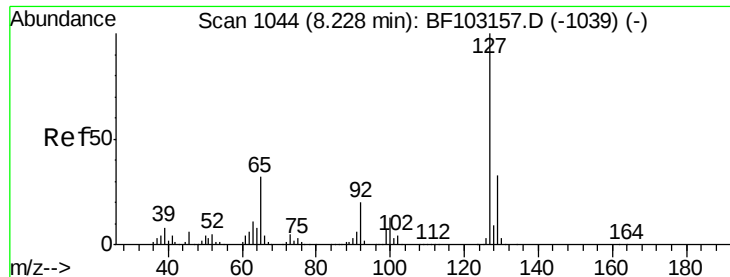


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

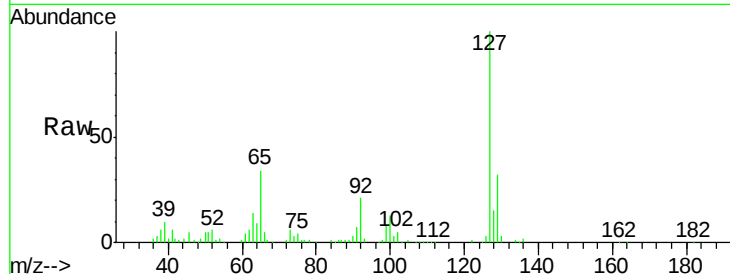




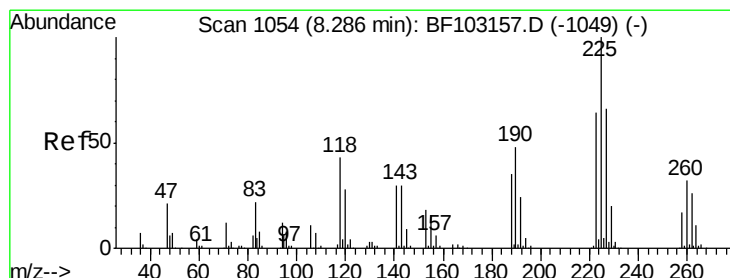
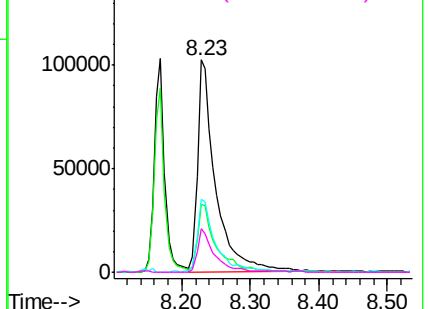
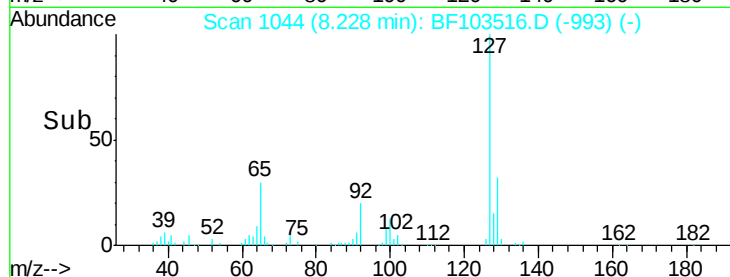
#33  
4-Chloroaniline  
Concen: 15.439 ng  
RT: 8.23 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:127 Resp: 188428  
Ion Ratio Lower Upper  
127 100  
129 31.9 25.9 38.9  
65 34.5 25.0 37.4  
92 20.7 15.2 22.8

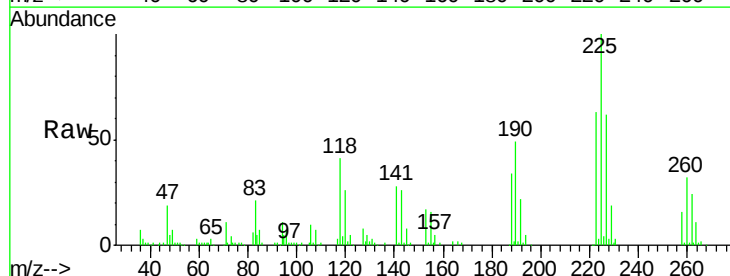


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1

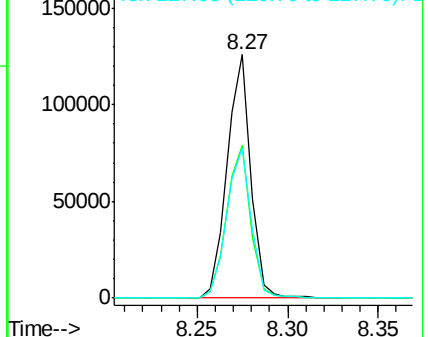
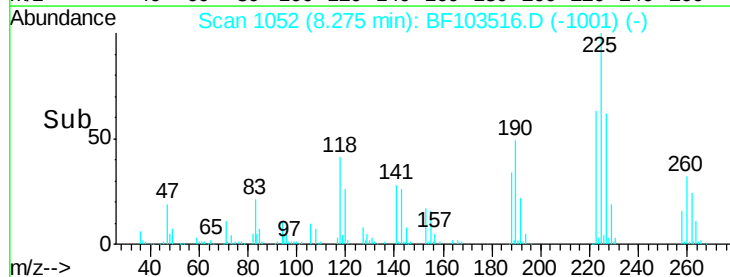


#34  
Hexachlorobutadiene  
Concen: 26.939 ng  
RT: 8.27 min Scan# 1052  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:225 Resp: 114618  
Ion Ratio Lower Upper  
225 100  
223 62.6 50.6 76.0  
227 61.7 51.9 77.9



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 28.692 ng

RT: 8.59 min Scan# 1106

Delta R.T. -0.02 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

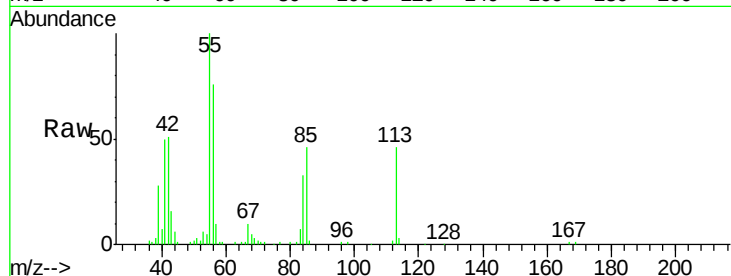
Tot Ion:113 Resp: 77371

Ion Ratio Lower Upper

113 100

55 216.6 163.3 203.3#

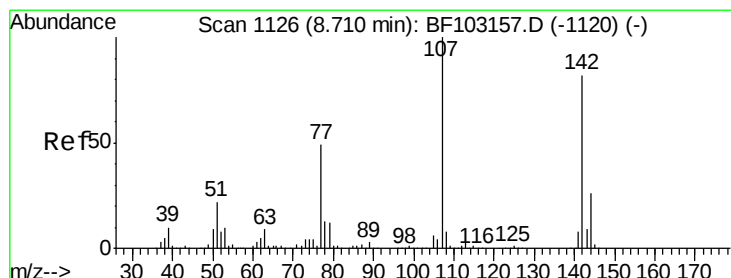
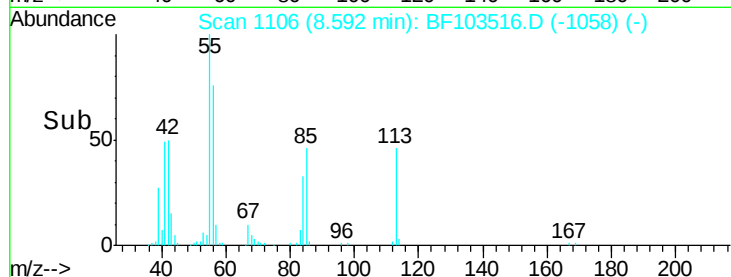
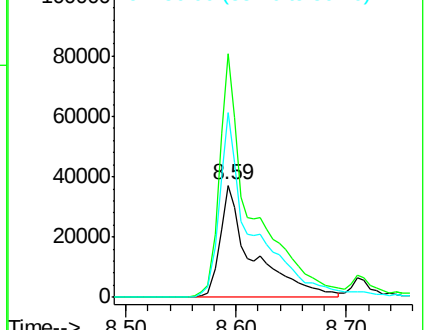
56 164.5 115.7 155.7#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#36

4-Chloro-3-methylphenol

Concen: 31.413 ng

RT: 8.71 min Scan# 1126

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

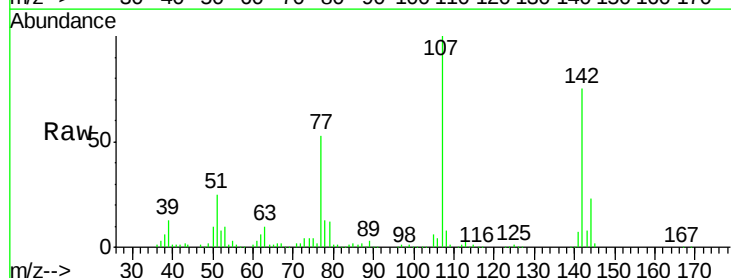
Tgt Ion:107 Resp: 271856

Ion Ratio Lower Upper

107 100

144 23.1 20.5 30.7

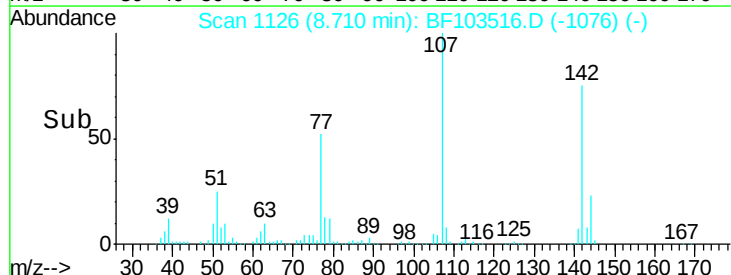
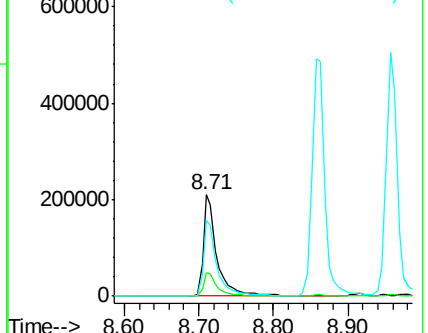
142 74.5 62.0 93.0

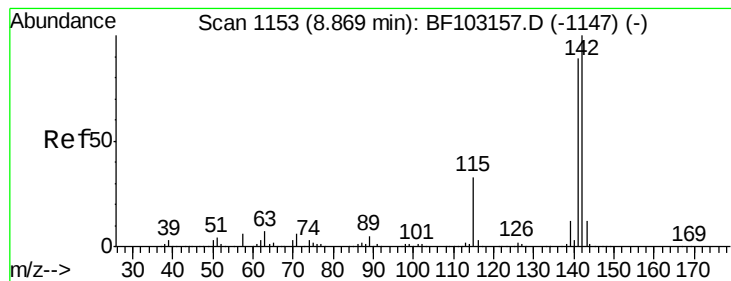


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





#37

2-Methylnaphthalene

Concen: 30.869 ng

RT: 8.86 min Scan# 1151

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

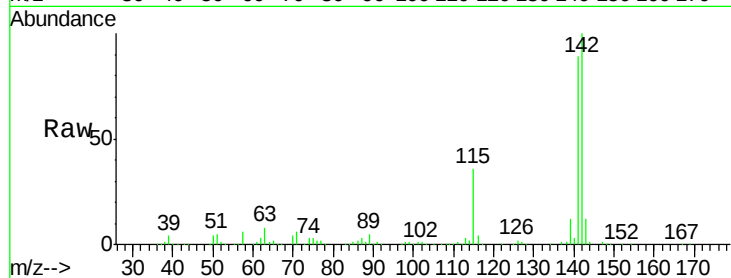
Tot Ion:142 Resp: 564228

Ion Ratio Lower Upper

142 100

141 89.1 70.8 106.2

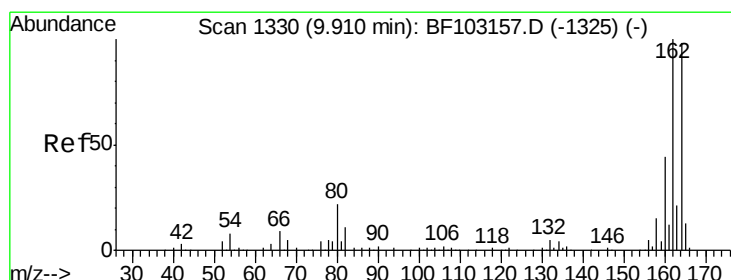
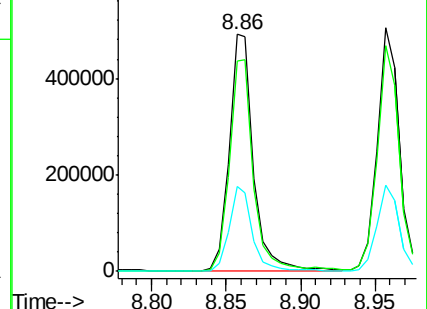
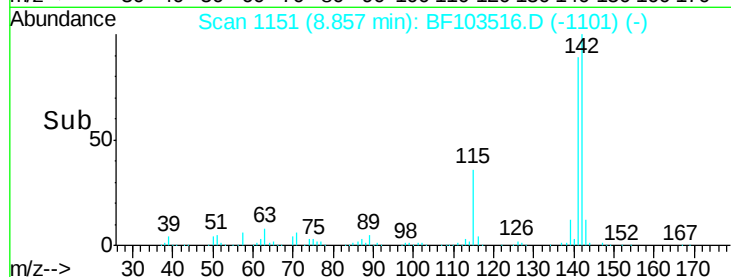
115 35.7 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

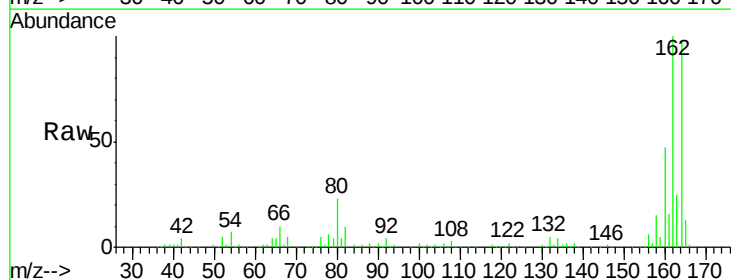
Tgt Ion:164 Resp: 263185

Ion Ratio Lower Upper

164 100

162 102.4 86.1 129.1

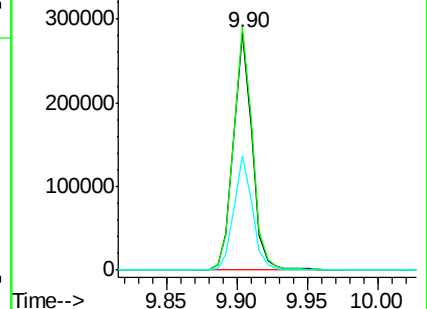
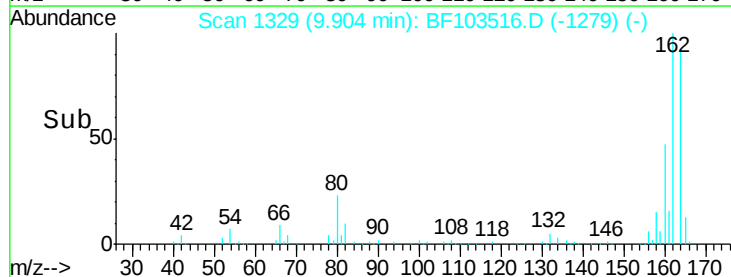
160 48.1 38.3 57.5



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





#39

1,2,4,5-Tetrachlorobenzene

Concen: 27.958 ng

RT: 9.03 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:216 Resp: 201158

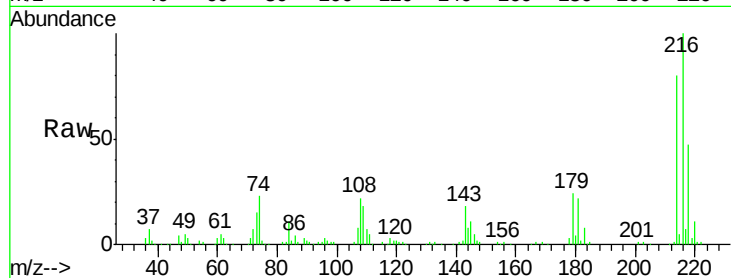
Ion Ratio Lower Upper

216 100

214 78.9 63.0 94.4

179 23.7 18.1 27.1

108 22.8 17.2 25.8

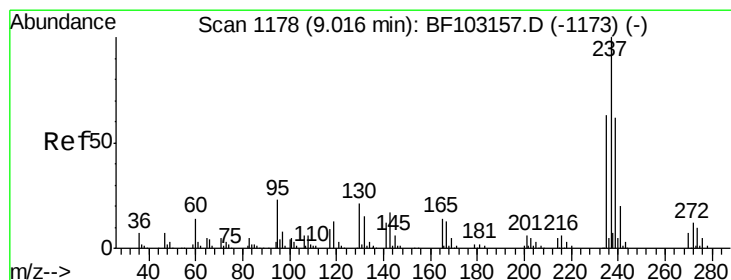
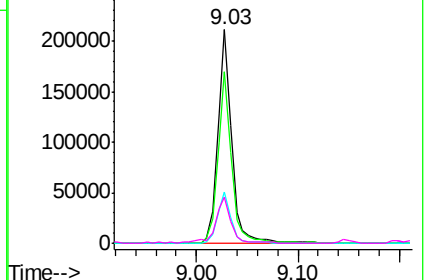
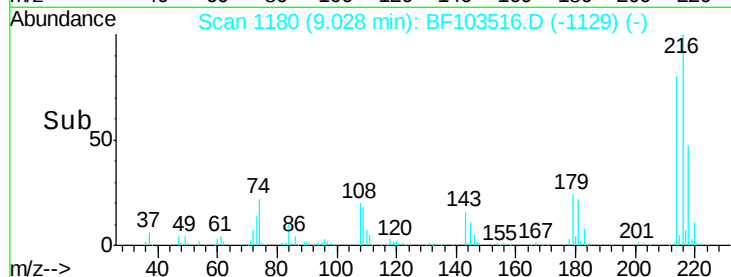


Abundance Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E



#40

Hexachlorocyclopentadiene

Concen: 24.950 ng

RT: 9.00 min Scan# 1176

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

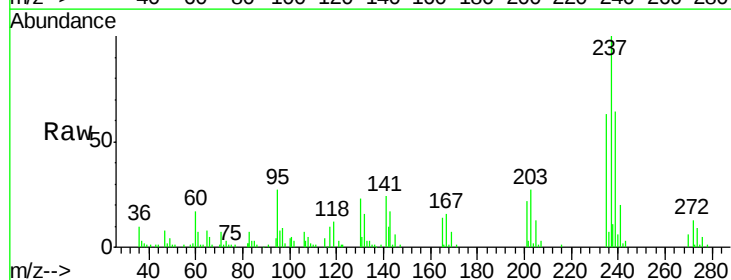
Tgt Ion:237 Resp: 45840

Ion Ratio Lower Upper

237 100

235 63.0 44.8 84.8

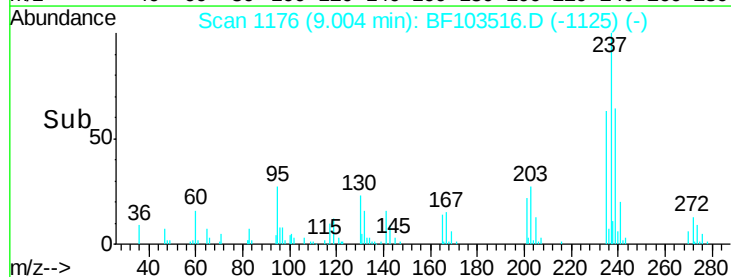
272 12.8 0.0 33.3



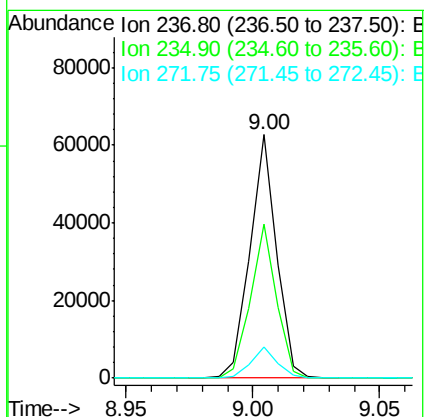
Abundance Ion 236.80 (236.50 to 237.50): E

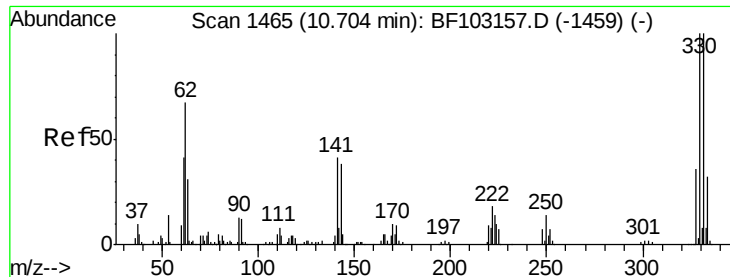
Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



Time-->

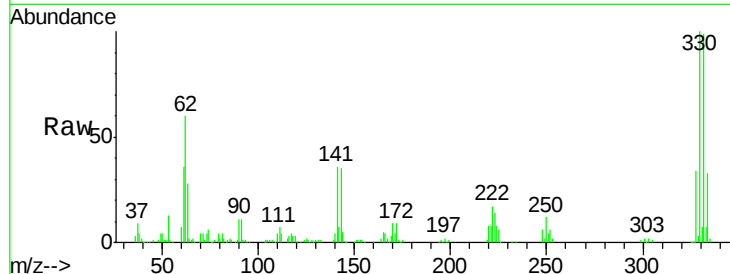




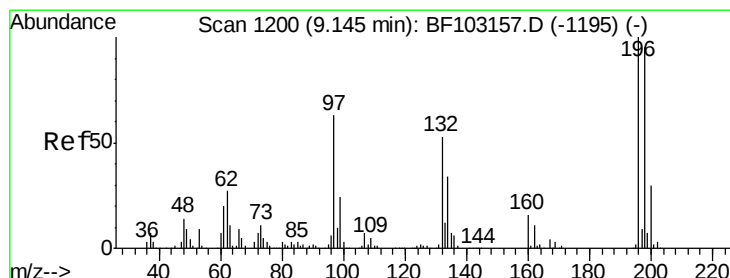
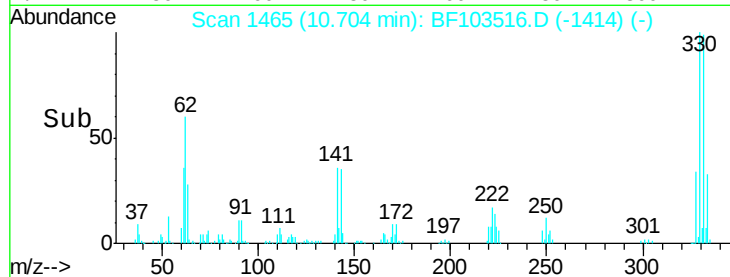
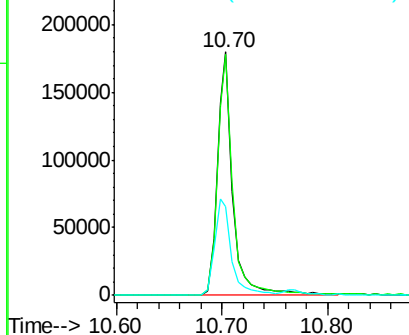
#41  
 2,4,6-Tribromophenol  
 Concen: 83.380 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 185747  
 Ion Ratio Lower Upper  
 330 100  
 332 101.0 77.0 115.6  
 141 43.3 29.9 44.9

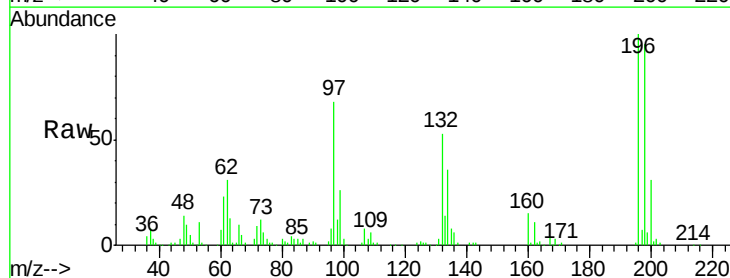


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

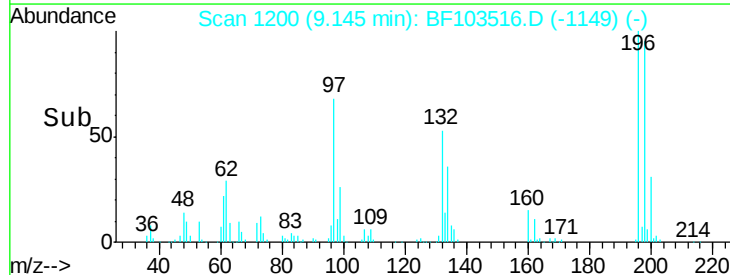
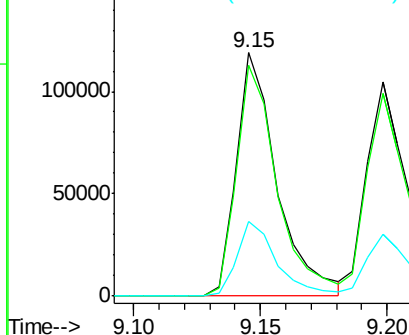


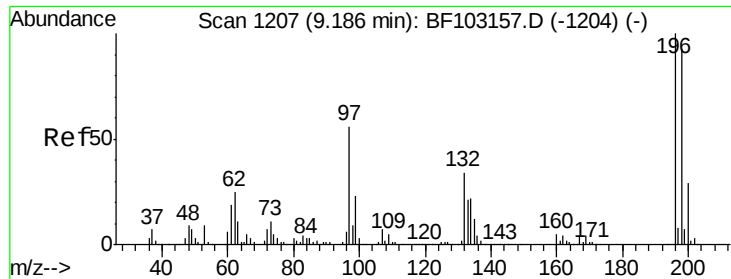
#42  
 2,4,6-Trichlorophenol  
 Concen: 27.338 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:196 Resp: 132351  
 Ion Ratio Lower Upper  
 196 100  
 198 94.6 75.7 113.5  
 200 30.6 24.5 36.7



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

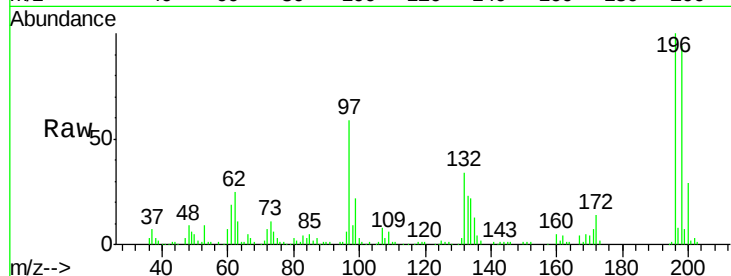




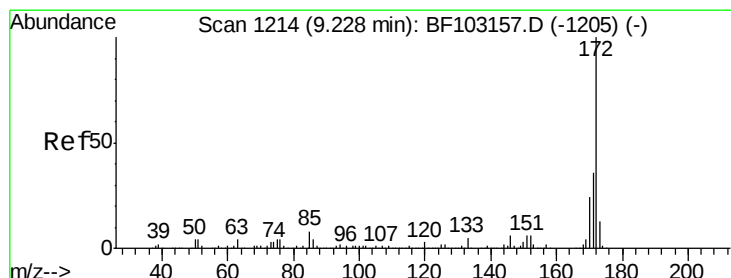
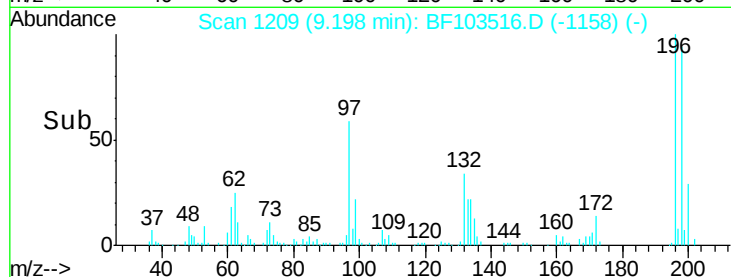
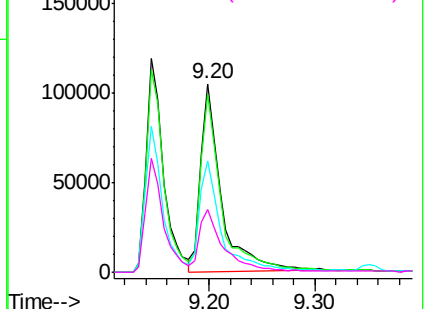
#43  
 2,4,5-Trichlorophenol  
 Concen: 25.320 ng  
 RT: 9.20 min Scan# 1209  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:196 Resp: 140990  
 Ion Ratio Lower Upper  
 196 100  
 198 94.3 74.6 112.0  
 97 59.2 42.9 64.3  
 132 33.7 26.3 39.5

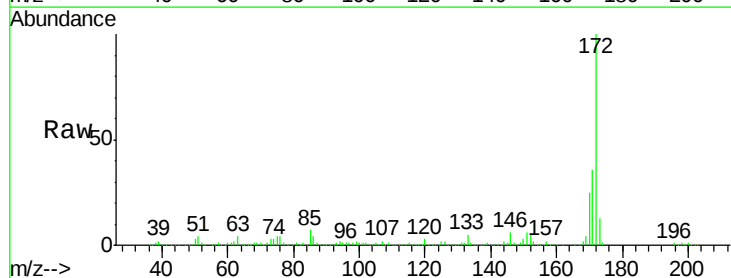


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF1  
 Ion 132.00 (131.70 to 132.70): E

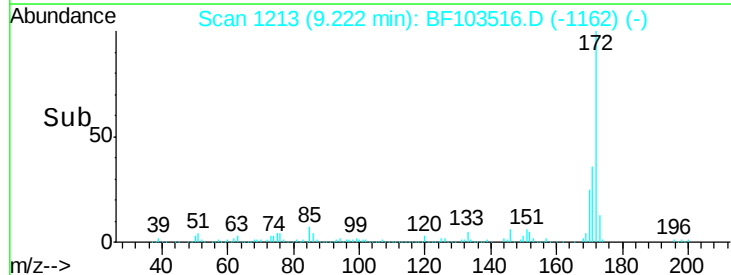
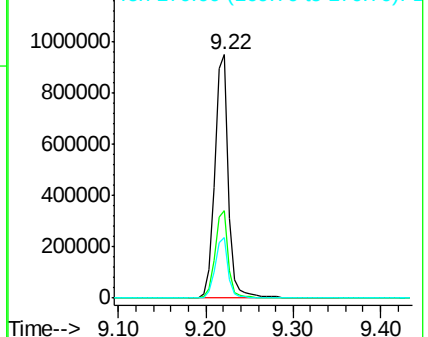


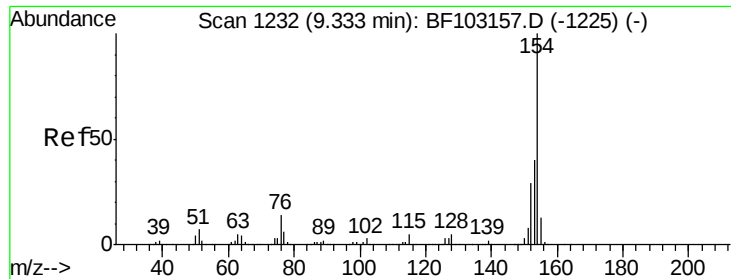
#44  
 2-Fluorobiphenyl  
 Concen: 63.132 ng  
 RT: 9.22 min Scan# 1213  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:172 Resp: 1026722  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 24.8 19.6 29.4



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





#45

1,1'-Biphenyl

Concen: 28.304 ng

RT: 9.32 min Scan# 1230

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampled :

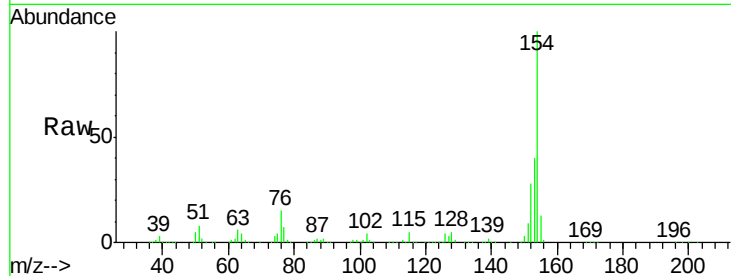
Tot Ion:154 Resp: 624203

Ion Ratio Lower Upper

154 100

153 40.2 21.3 61.3

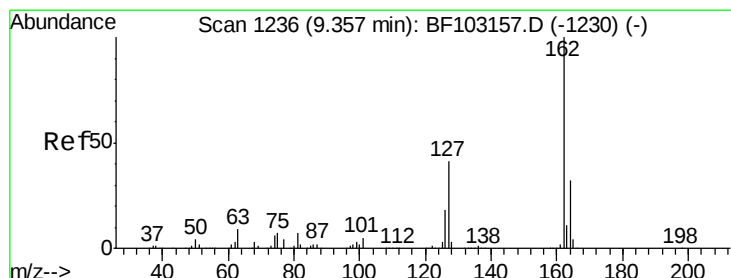
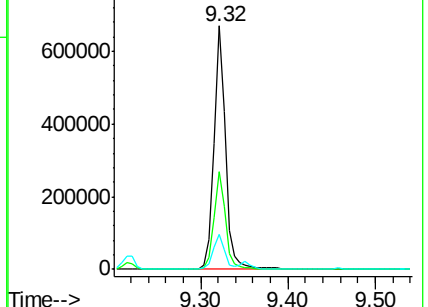
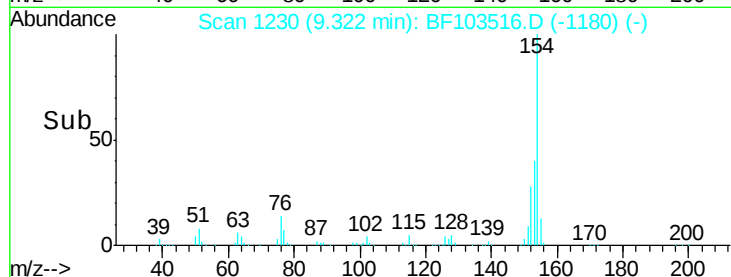
76 14.5 0.0 34.0



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



#46

2-Chloronaphthalene

Concen: 28.233 ng

RT: 9.35 min Scan# 1235

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

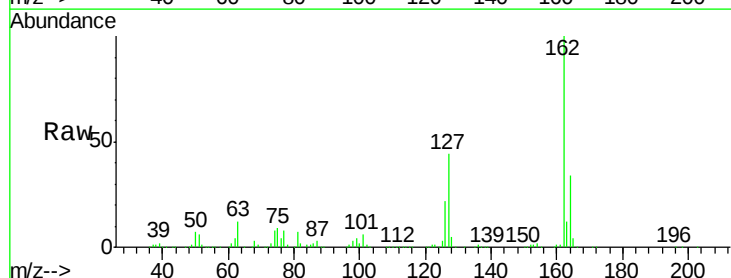
Tgt Ion:162 Resp: 492592

Ion Ratio Lower Upper

162 100

127 43.9 33.9 50.9

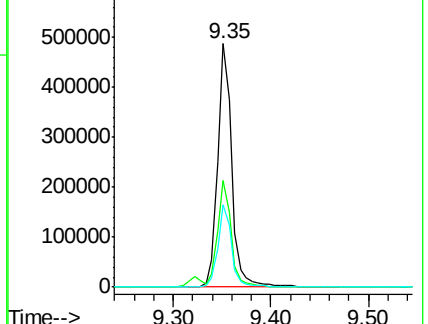
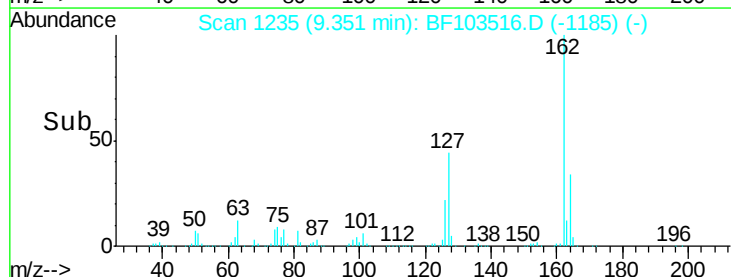
164 33.8 26.5 39.7

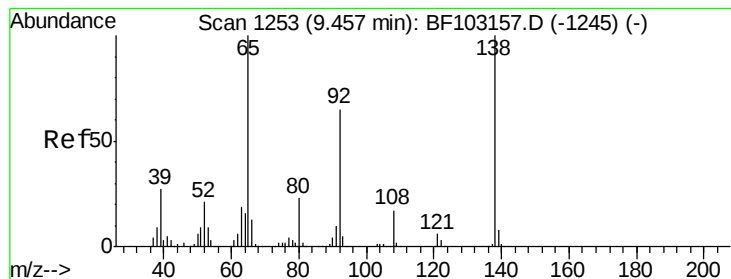


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





#47

2-Nitroaniline

Concen: 30.784 ng

RT: 9.46 min Scan# 1253

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

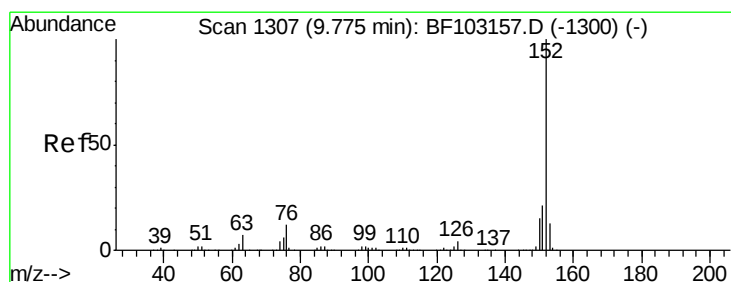
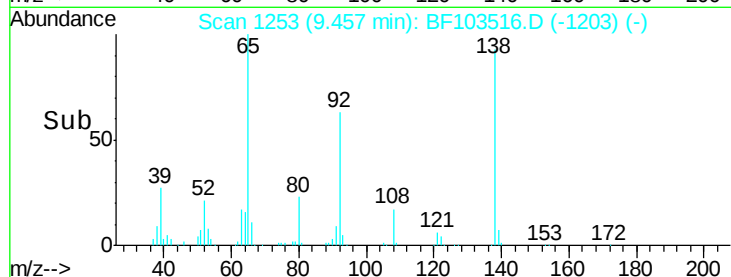
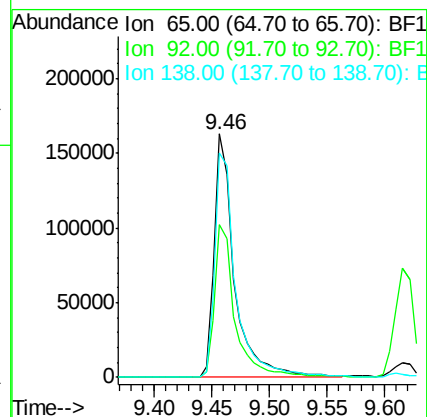
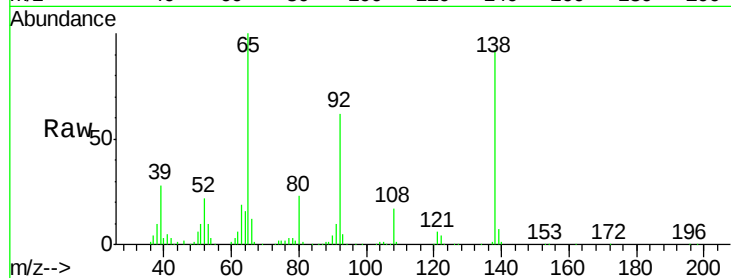
Tot Ion: 65 Resp: 198954

Ion Ratio Lower Upper

65 100

92 62.5 55.8 83.6

138 92.1 91.2 136.8



#48

Acenaphthylene

Concen: 28.481 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

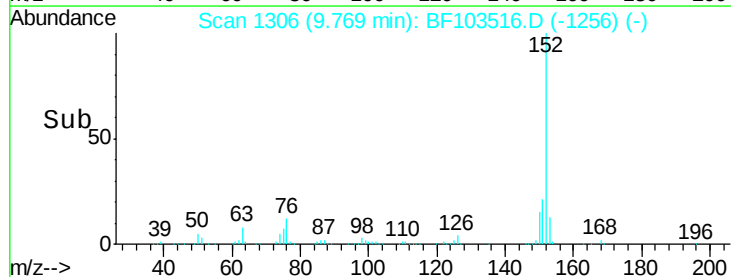
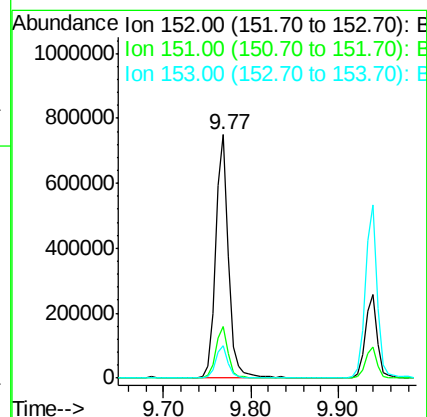
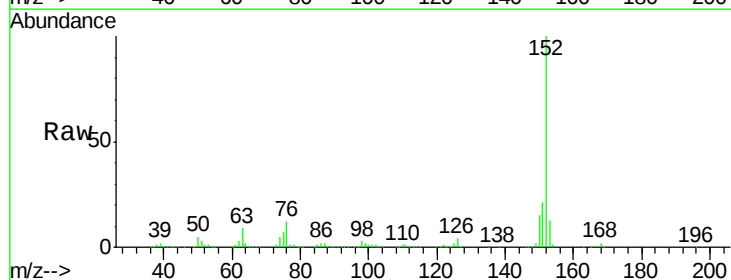
Tgt Ion: 152 Resp: 764564

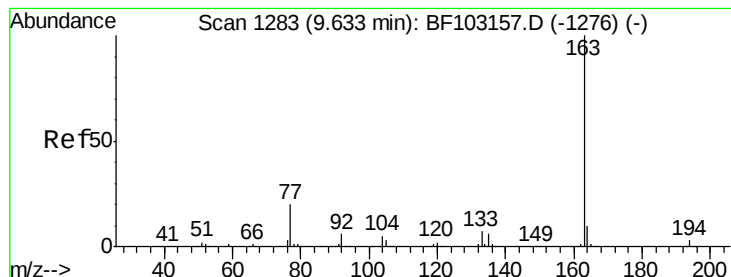
Ion Ratio Lower Upper

152 100

151 21.0 16.3 24.5

153 13.1 10.7 16.1





#49

Dimethylphthalate

Concen: 26.767 ng

RT: 9.62 min Scan# 1281

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

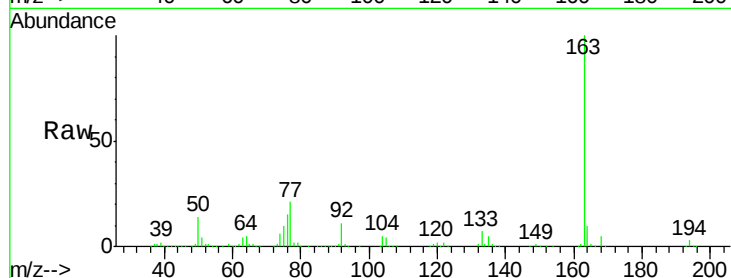
Tot Ion:163 Resp: 565138

Ion Ratio Lower Upper

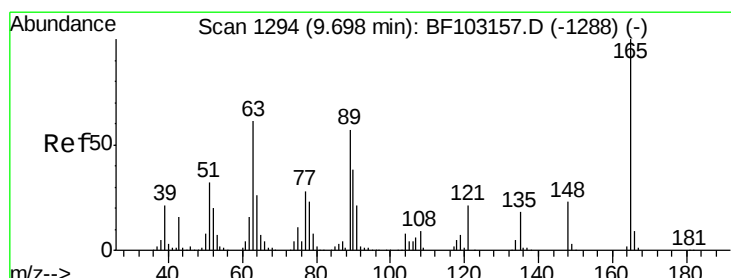
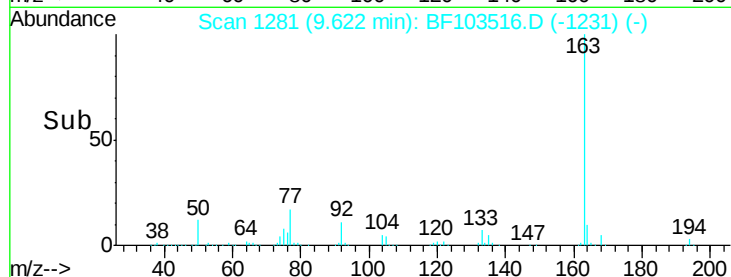
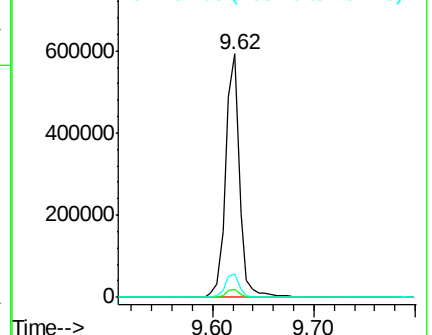
163 100

194 3.3 2.7 4.1

164 9.8 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 28.220 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

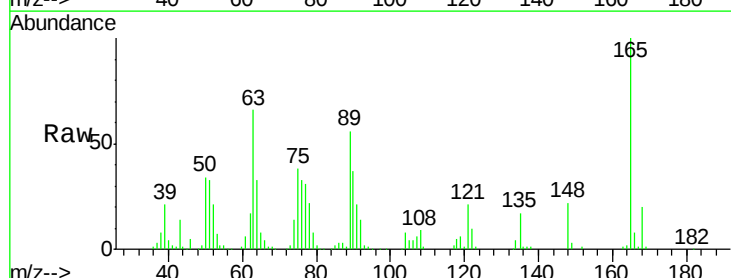
Tgt Ion:165 Resp: 125032

Ion Ratio Lower Upper

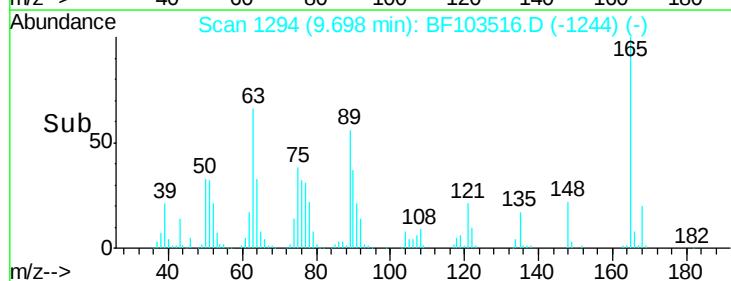
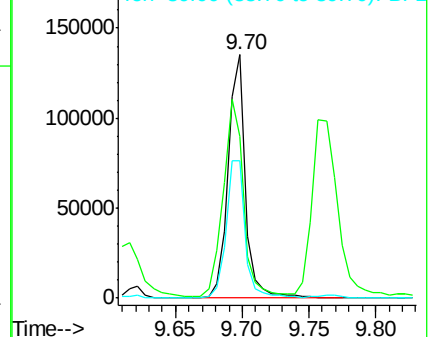
165 100

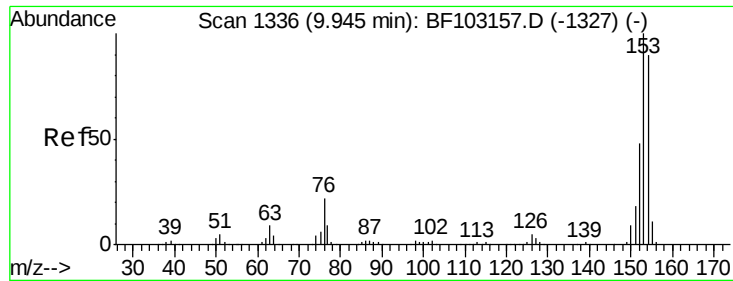
63 66.3 44.7 67.1

89 56.2 44.0 66.0



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





#51

Acenaphthene

Concen: 28.428 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

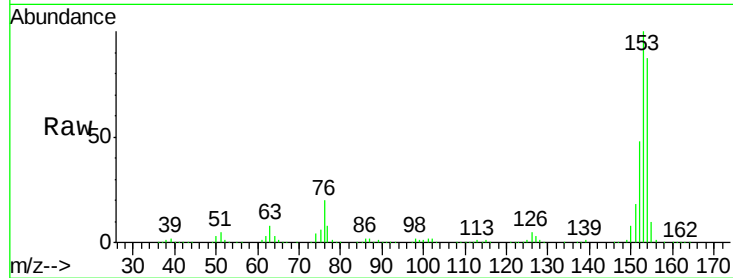
Tot Ion:154 Resp: 444995

Ion Ratio Lower Upper

154 100

153 114.3 91.2 136.8

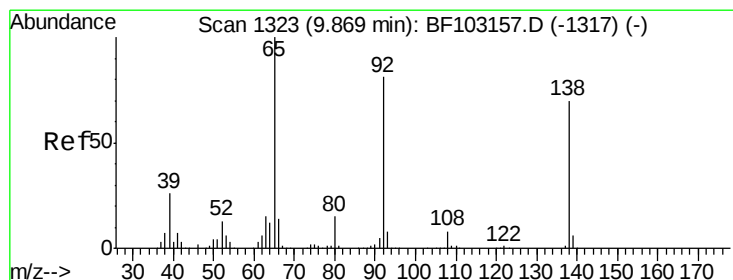
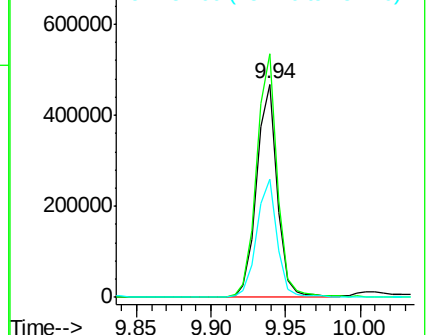
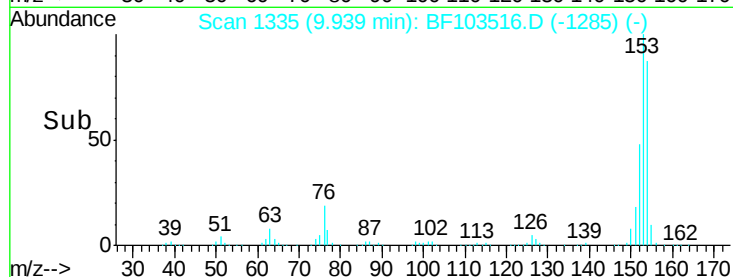
152 55.4 43.8 65.8



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



#52

3-Nitroaniline

Concen: 20.028 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

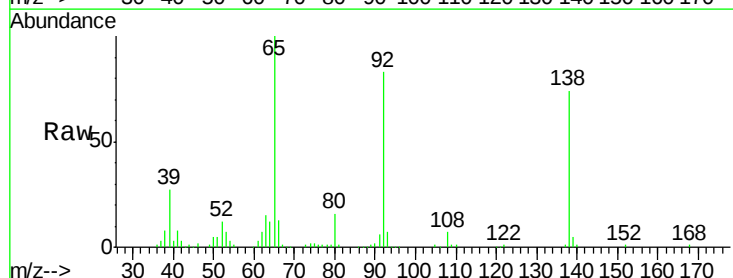
Tgt Ion:138 Resp: 112581

Ion Ratio Lower Upper

138 100

108 9.3 9.4 14.0#

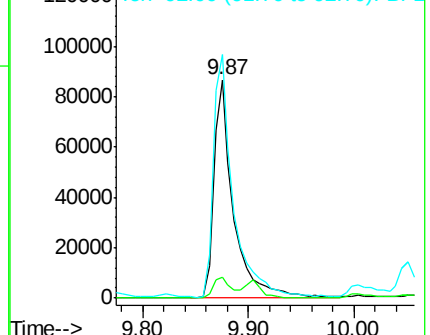
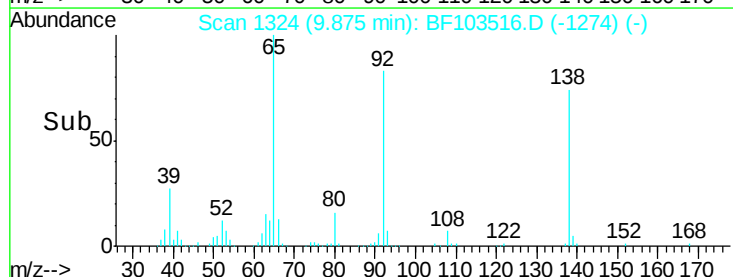
92 111.5 89.4 134.2



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1

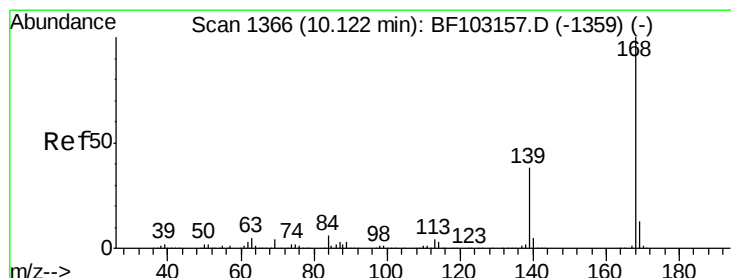
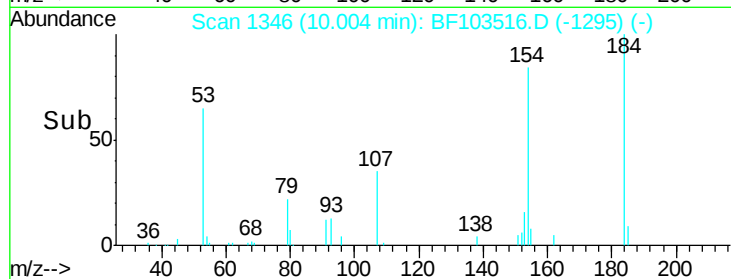
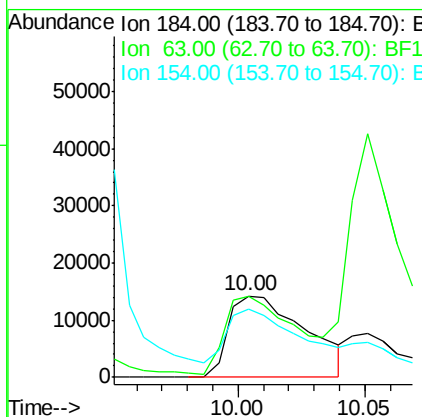
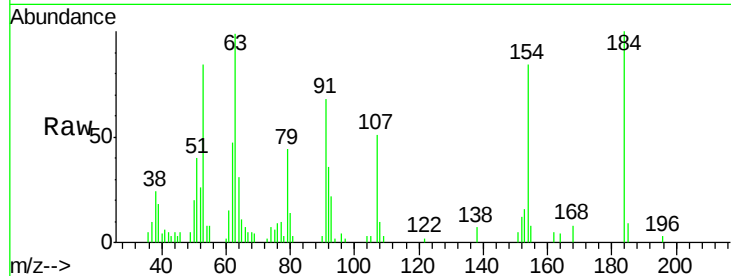




#53  
2,4-Dinitrophenol  
Concen: 26.027 ng  
RT: 10.00 min Scan# 1346  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

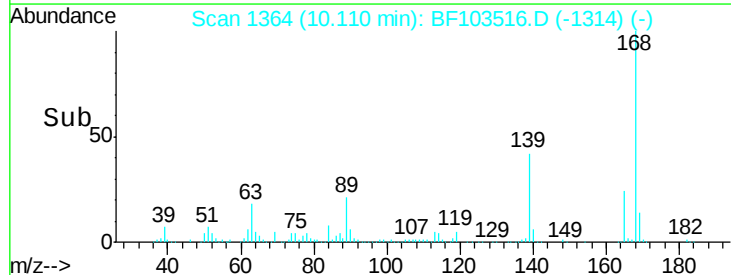
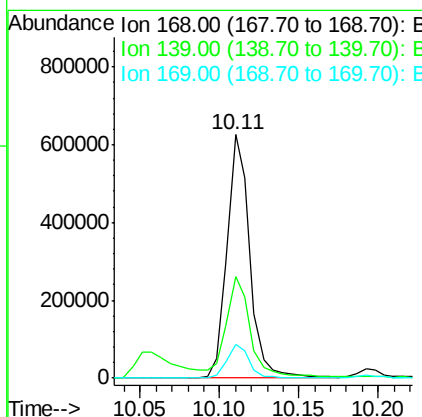
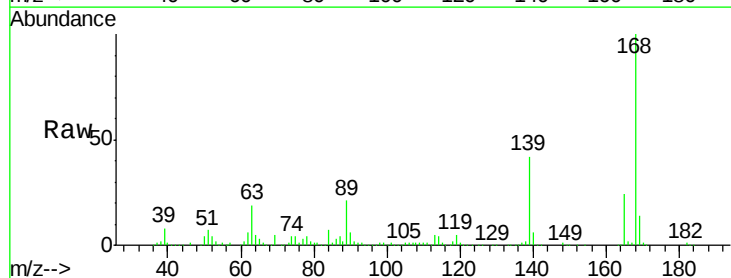
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:184 Resp: 29845  
Ion Ratio Lower Upper  
184 100  
63 99.0 54.2 81.2#  
154 84.5 184.0 276.0#



#54  
Dibenzofuran  
Concen: 29.067 ng  
RT: 10.11 min Scan# 1364  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:168 Resp: 624603  
Ion Ratio Lower Upper  
168 100  
139 41.7 30.1 45.1  
169 14.0 10.9 16.3

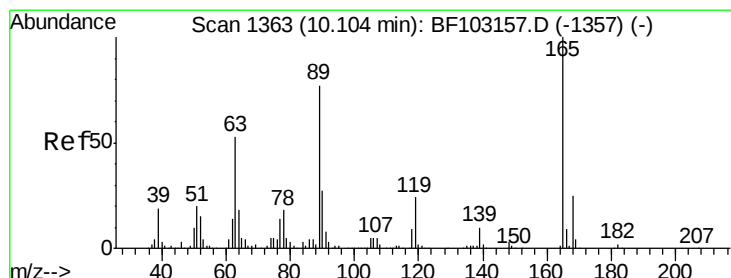
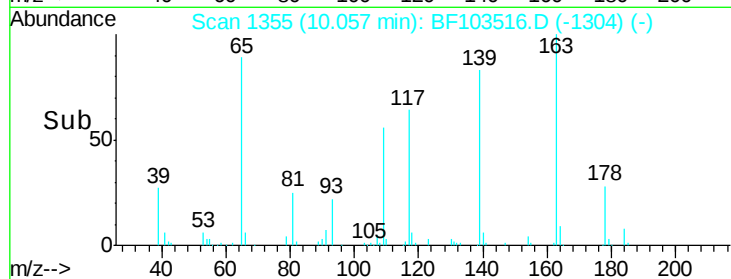
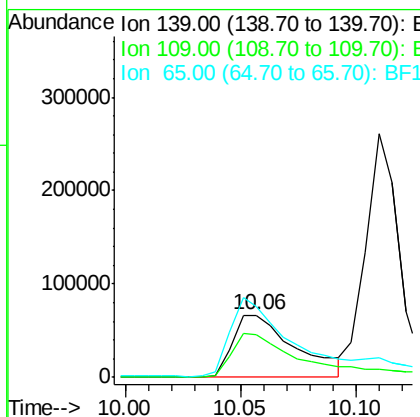
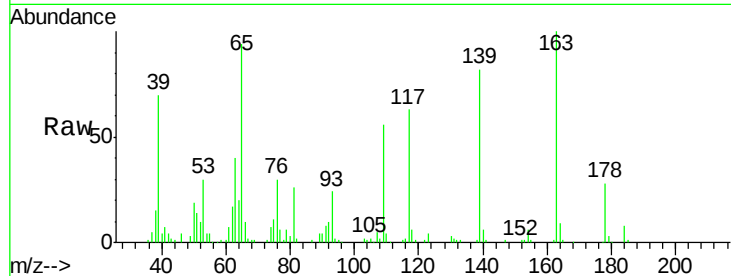




#55  
4-Nitrophenol  
Concen: 35.752 ng  
RT: 10.06 min Scan# 1355  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

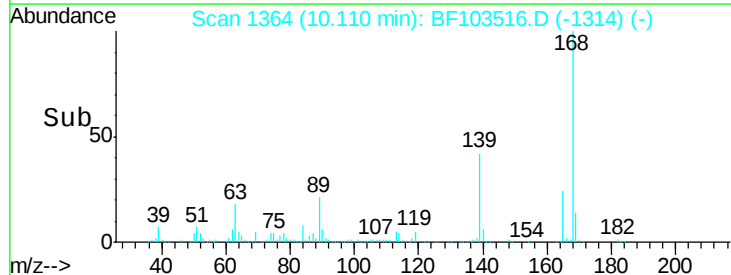
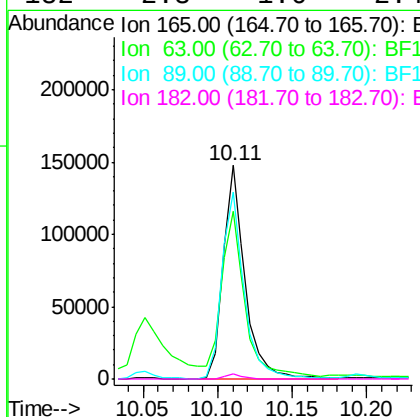
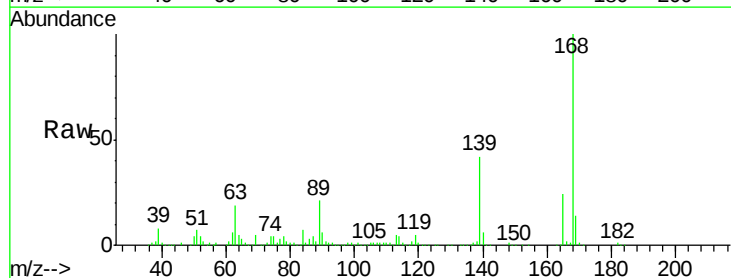
Instrument :  
BNA\_F  
ClientSampleId :

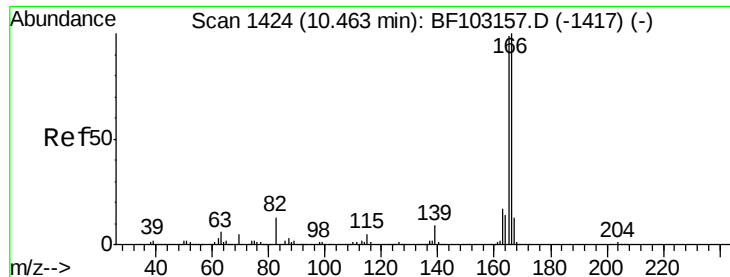
Tot Ion:139 Resp: 124556  
Ion Ratio Lower Upper  
139 100  
109 68.2 48.4 88.4  
65 114.4 72.6 112.6#



#56  
2,4-Dinitrotoluene  
Concen: 27.287 ng  
RT: 10.11 min Scan# 1364  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:165 Resp: 152904  
Ion Ratio Lower Upper  
165 100  
63 78.7 36.4 54.6#  
89 87.3 57.8 86.6#  
182 2.3 1.6 2.4

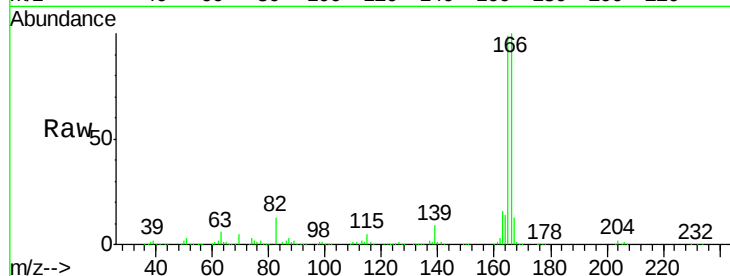




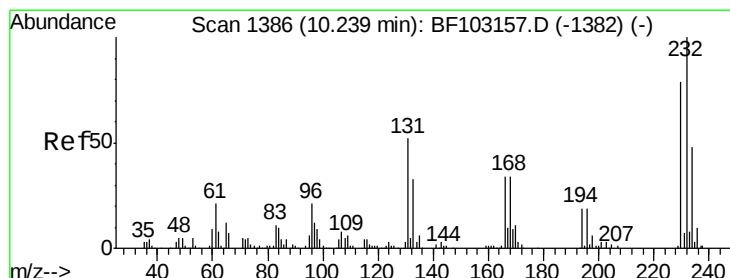
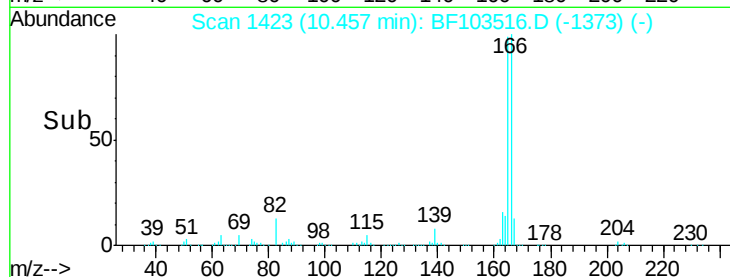
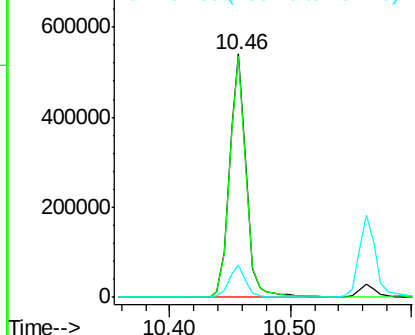
#57  
 Fluorene  
 Concen: 27.891 ng  
 RT: 10.46 min Scan# 1423  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:166 Resp: 510547  
 Ion Ratio Lower Upper  
 166 100  
 165 99.0 79.8 119.8  
 167 13.4 10.6 16.0

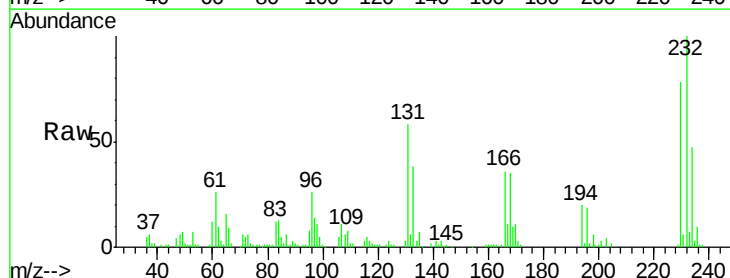


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

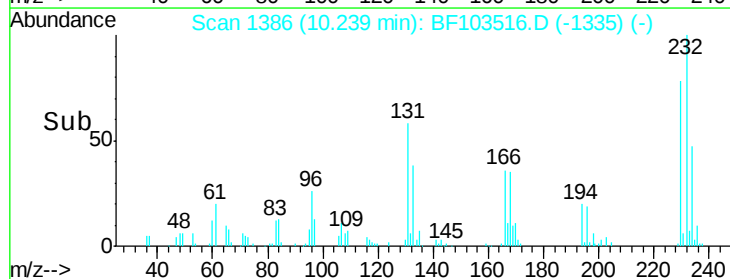
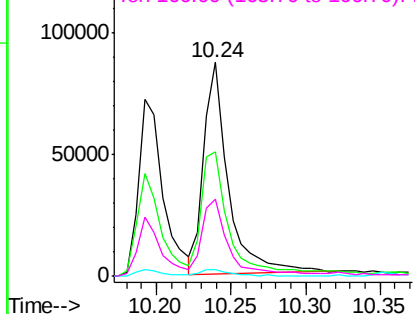


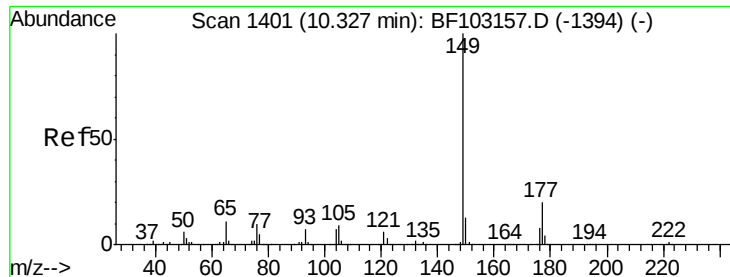
#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 26.574 ng  
 RT: 10.24 min Scan# 1386  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:232 Resp: 99403  
 Ion Ratio Lower Upper  
 232 100  
 131 59.1 43.8 65.8  
 130 3.5 2.1 3.1#  
 166 35.7 27.8 41.6



Abundance Ion 232.00 (231.70 to 232.70): E  
 Ion 131.00 (130.70 to 131.70): E  
 Ion 130.00 (129.70 to 130.70): E  
 Ion 166.00 (165.70 to 166.70): E

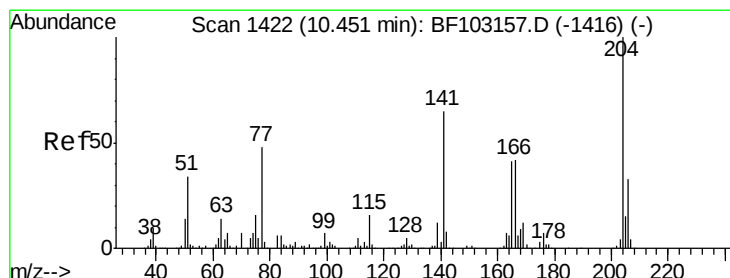
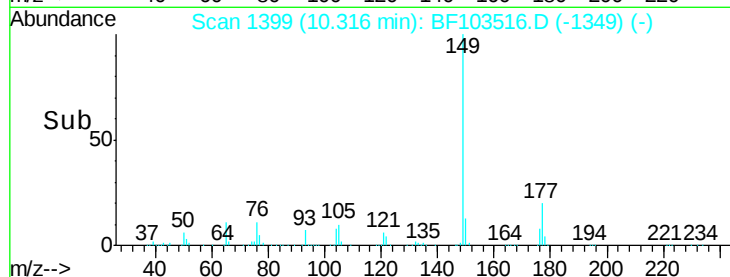
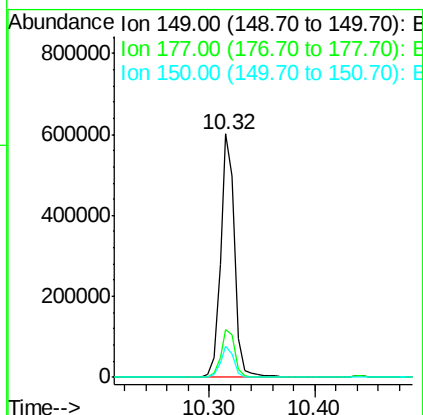
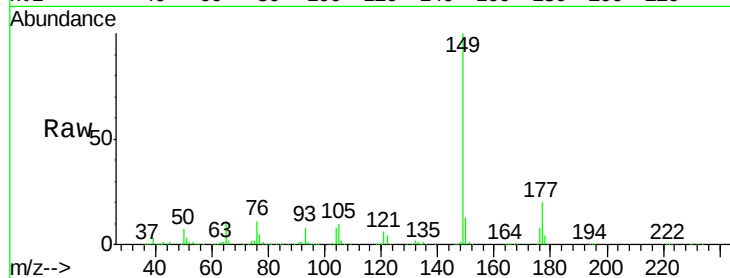




#59  
Diethylphthalate  
Concen: 27.794 ng  
RT: 10.32 min Scan# 1399  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

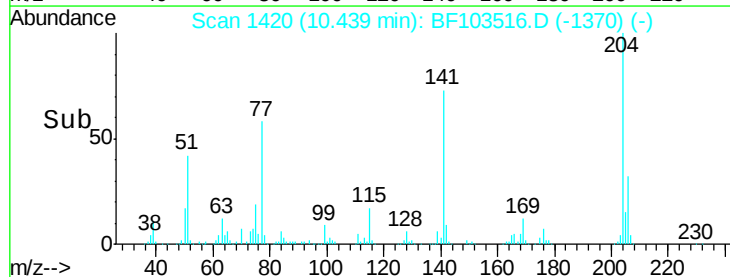
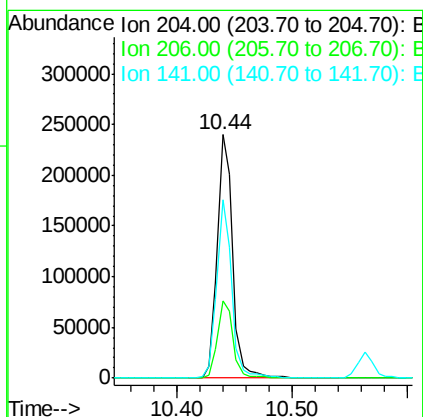
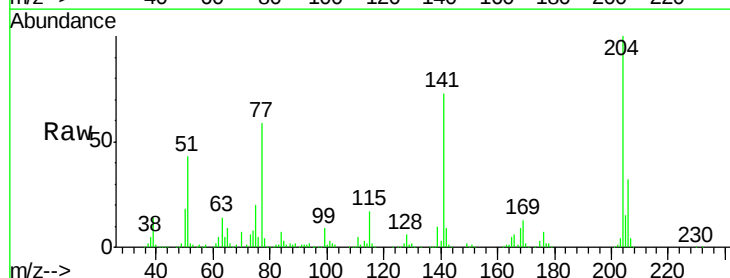
Instrument :  
BNA\_F  
ClientSampleId :

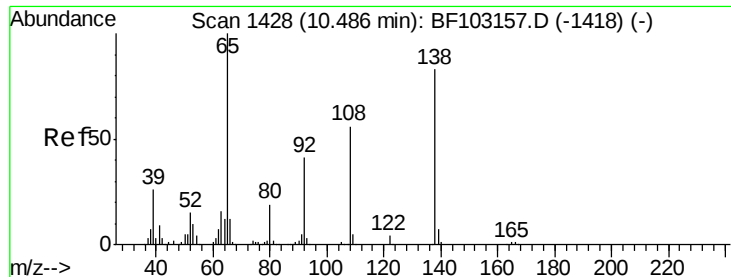
Tot Ion:149 Resp: 561242  
Ion Ratio Lower Upper  
149 100  
177 19.7 16.1 24.1  
150 12.8 10.1 15.1



#60  
4-Chlorophenyl-phenylether  
Concen: 28.741 ng  
RT: 10.44 min Scan# 1420  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:204 Resp: 223103  
Ion Ratio Lower Upper  
204 100  
206 31.9 26.5 39.7  
141 73.3 54.6 81.8





#61

4-Nitroaniline

Concen: 26.550 ng

RT: 10.49 min Scan# 1429

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

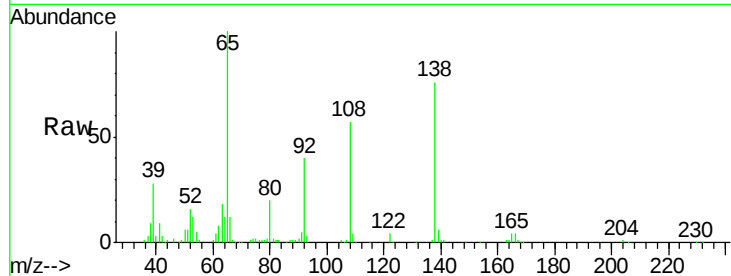
Tot Ion:138 Resp: 149068

Ion Ratio Lower Upper

138 100

92 52.7 30.2 70.2

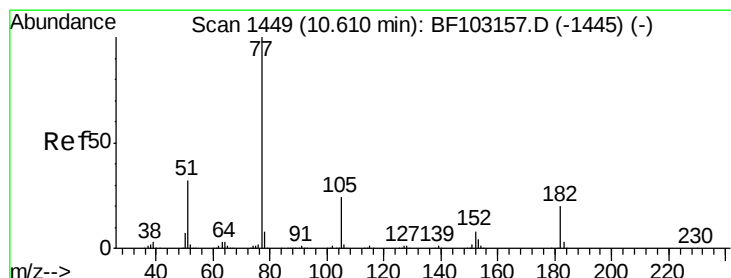
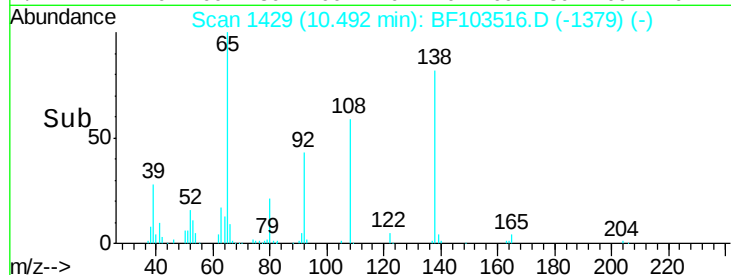
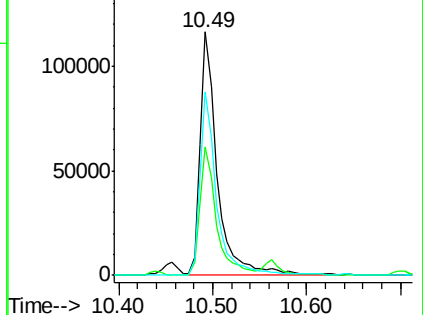
108 75.1 52.5 92.5



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 31.095 ng

RT: 10.60 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Tgt Ion: 77 Resp: 639134

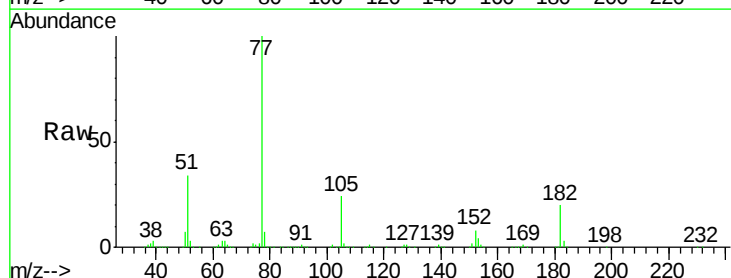
Ion Ratio Lower Upper

77 100

182 19.8 1.7 41.7

105 23.8 3.0 43.0

51 34.4 9.9 49.9

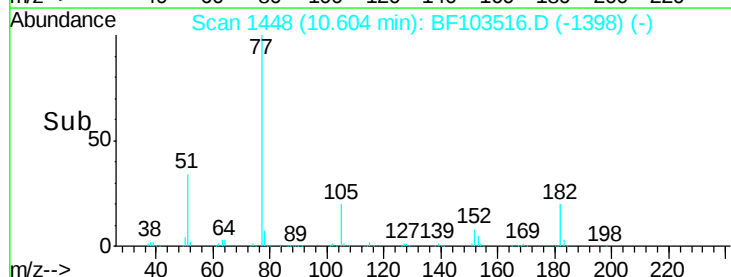
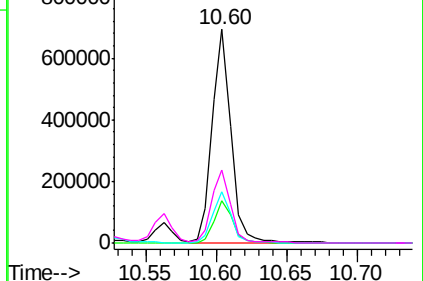


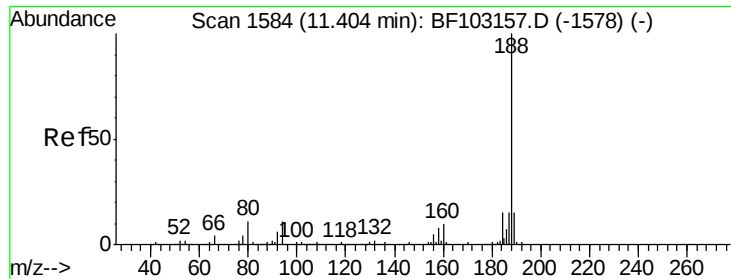
Abundance Ion 77.00 (76.70 to 77.70): BF1

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

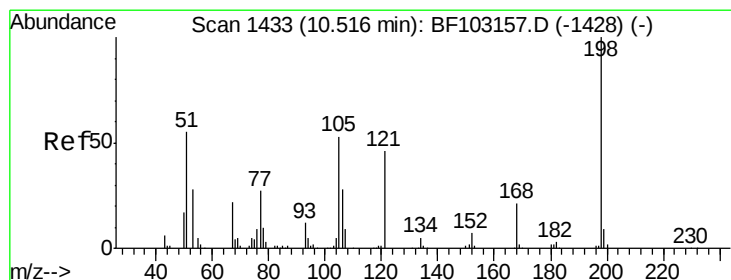
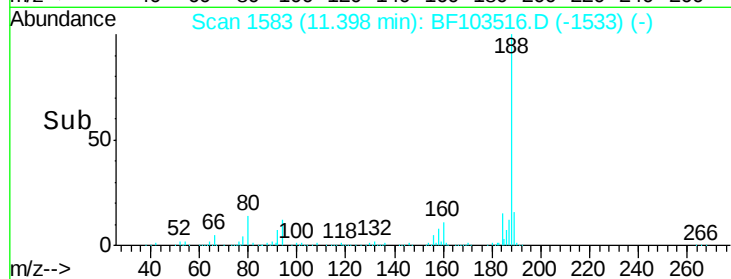
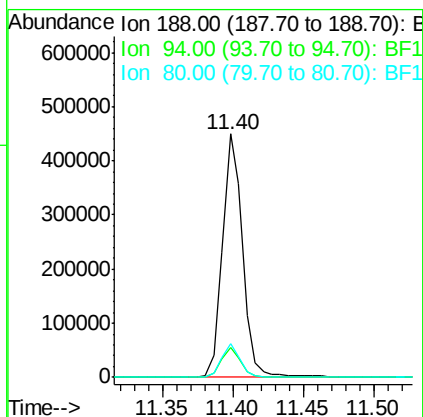
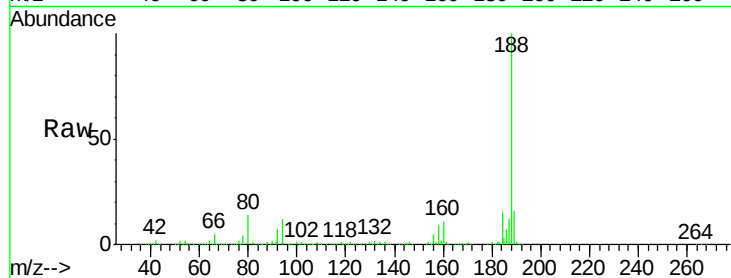




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

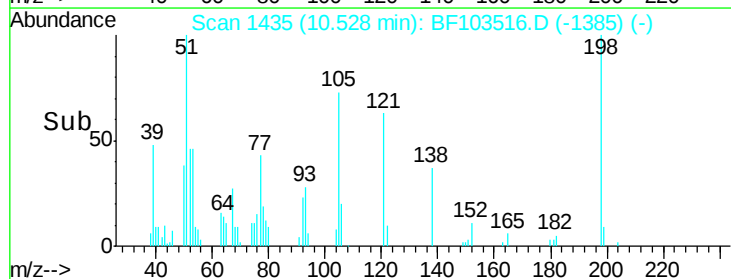
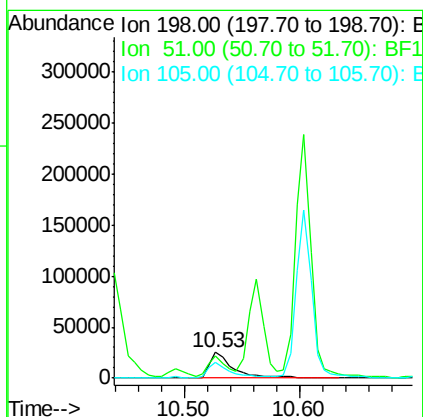
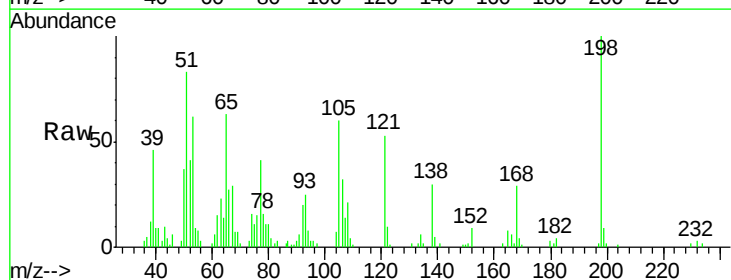
Instrument :  
BNA\_F  
ClientSampleId :

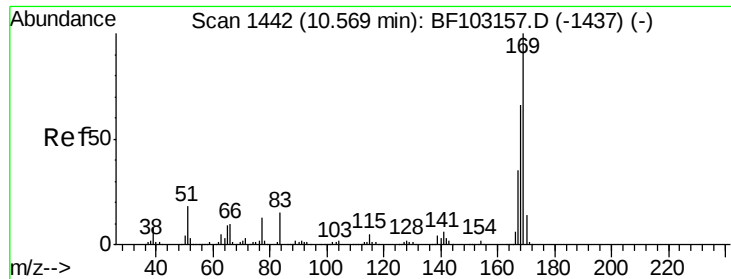
Tot Ion:188 Resp: 445825  
Ion Ratio Lower Upper  
188 100  
94 12.3 8.5 12.7  
80 13.6 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 17.030 ng  
RT: 10.53 min Scan# 1435  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:198 Resp: 36548  
Ion Ratio Lower Upper  
198 100  
51 83.1 37.7 77.7#  
105 59.7 36.3 76.3

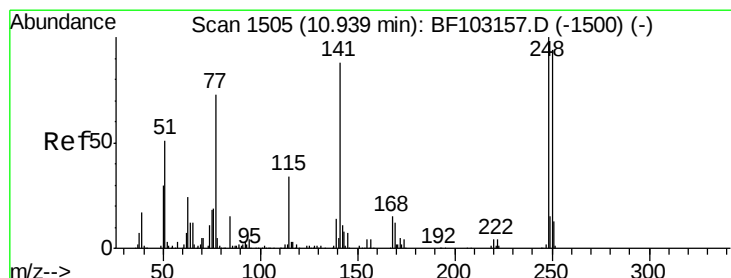
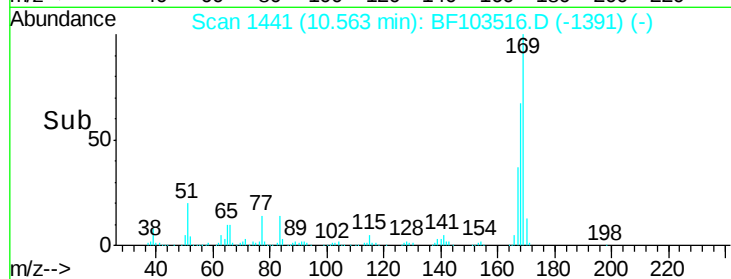
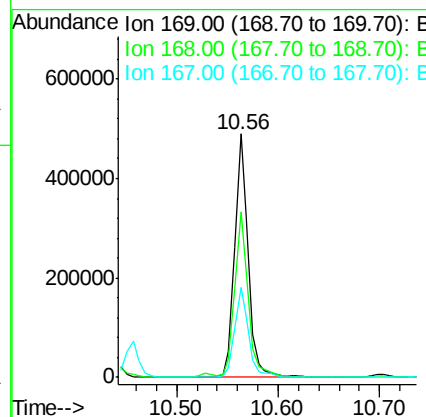
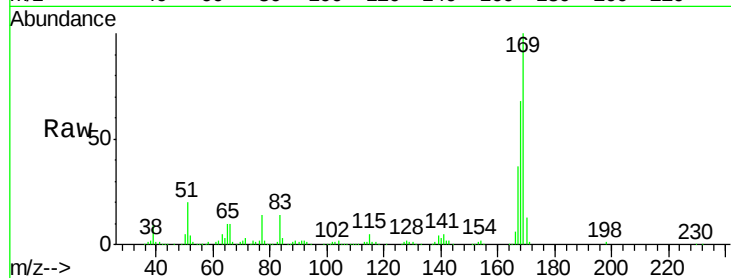




#65  
n-Nitrosodiphenylamine  
Concen: 29.539 ng  
RT: 10.56 min Scan# 1441  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

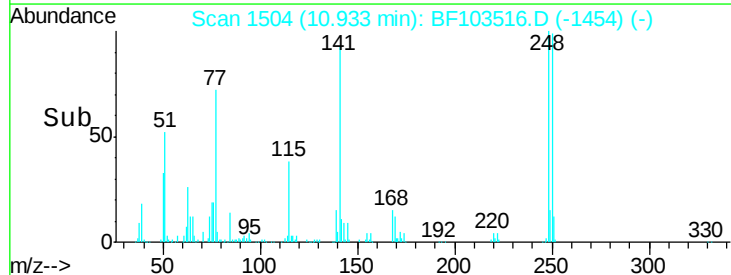
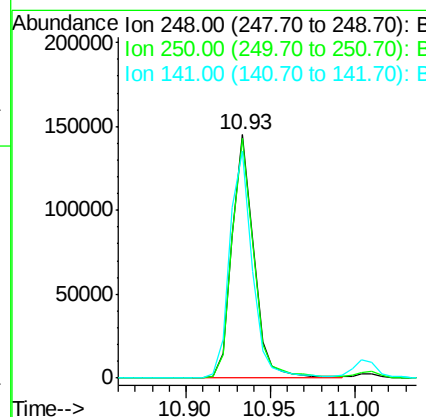
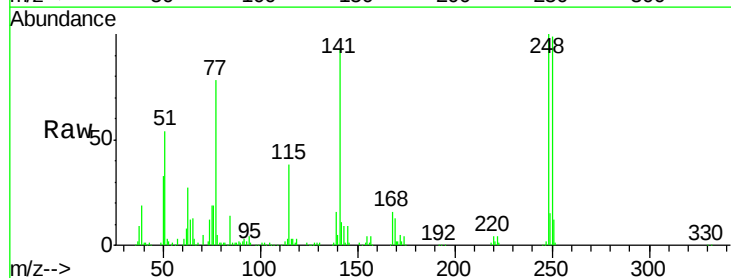
Instrument :  
BNA\_F  
ClientSampleId :

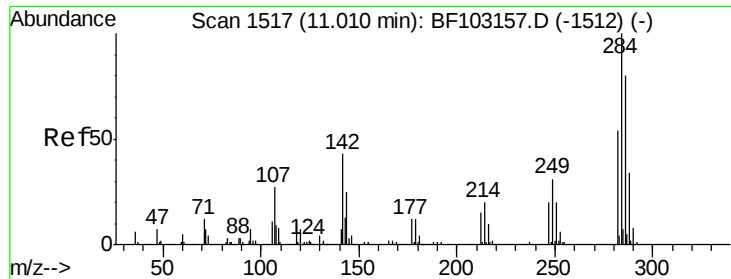
Tot Ion:169 Resp: 458536  
Ion Ratio Lower Upper  
169 100  
168 68.0 54.4 81.6  
167 37.2 29.8 44.6



#66  
4-Bromophenyl-phenylether  
Concen: 28.108 ng  
RT: 10.93 min Scan# 1504  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:248 Resp: 130539  
Ion Ratio Lower Upper  
248 100  
250 98.7 76.9 115.3  
141 93.4 74.4 111.6

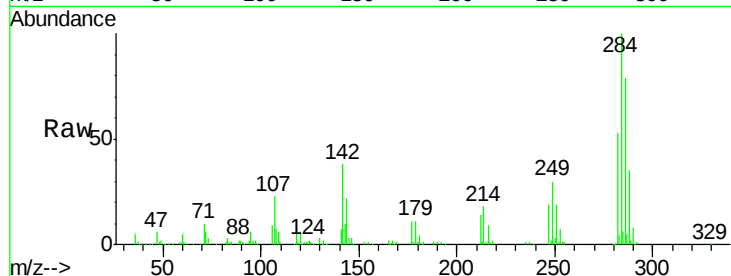




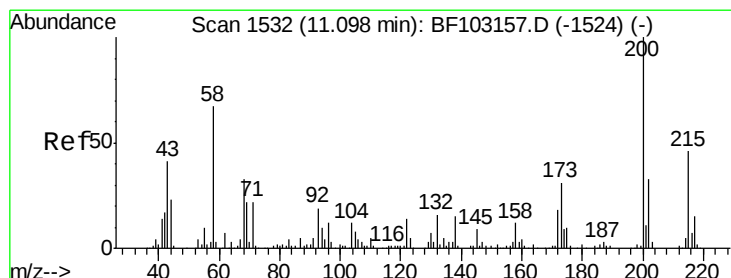
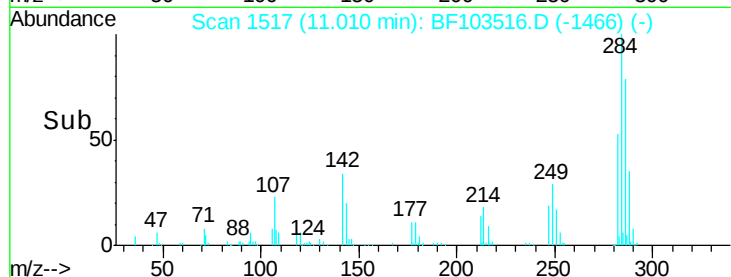
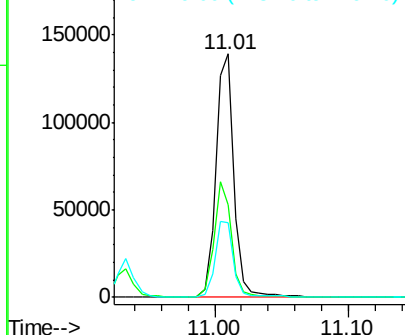
#67  
Hexachlorobenzene  
Concen: 26.383 ng  
RT: 11.01 min Scan# 1517  
Delta R.T. 0.00 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:284 Resp: 132993  
Ion Ratio Lower Upper  
284 100  
142 37.8 34.6 52.0  
249 30.5 24.8 37.2

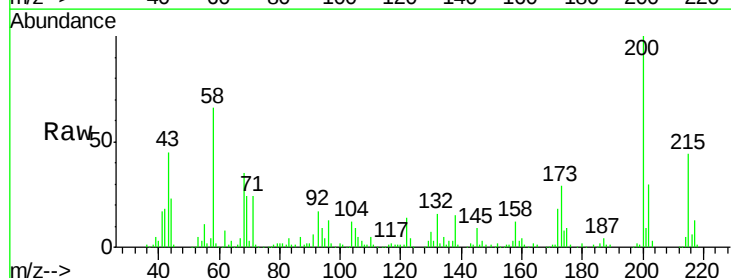


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

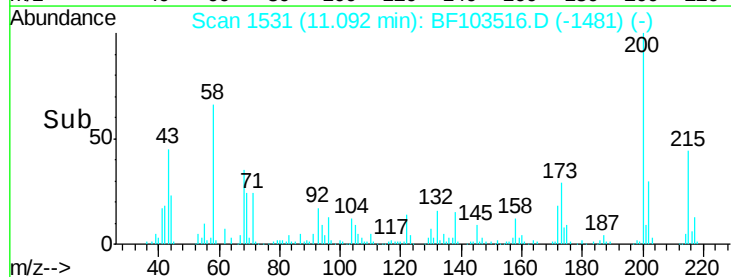
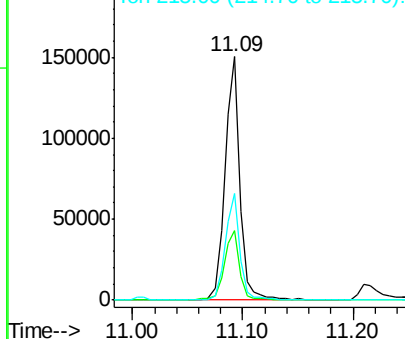


#68  
Atrazine  
Concen: 30.356 ng  
RT: 11.09 min Scan# 1531  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:200 Resp: 141633  
Ion Ratio Lower Upper  
200 100  
173 28.8 8.6 48.6  
215 43.7 25.1 65.1



Abundance Ion 200.00 (199.70 to 200.70): E  
Ion 173.00 (172.70 to 173.70): E  
Ion 215.00 (214.70 to 215.70): E

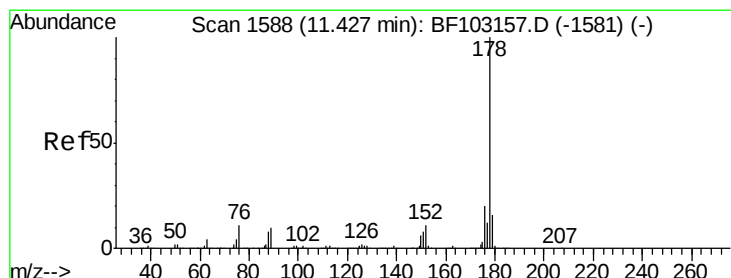
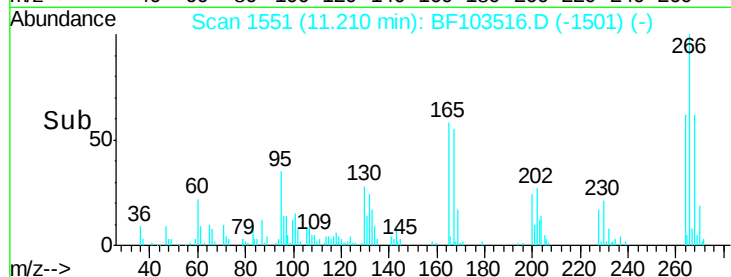
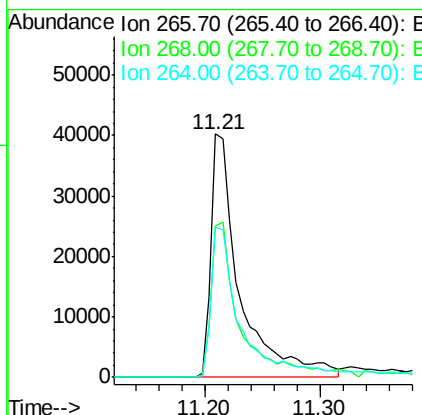
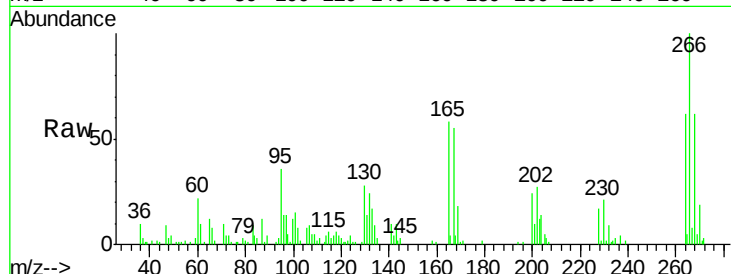




#69  
 Pentachlorophenol  
 Concen: 28.740 ng  
 RT: 11.21 min Scan# 1551  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

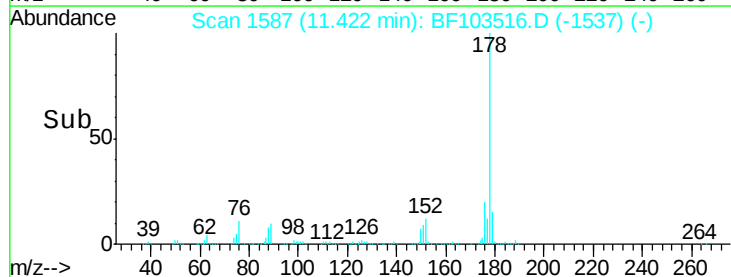
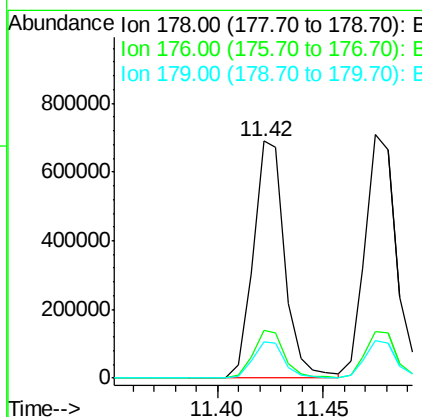
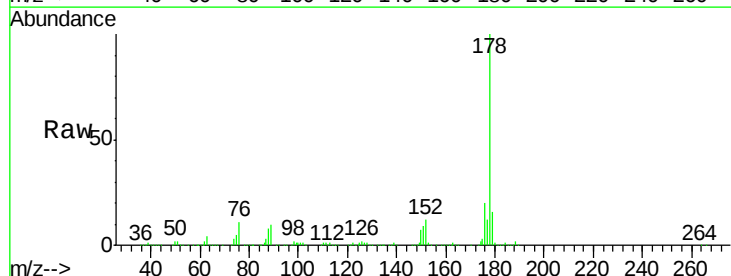
Instrument :  
 BNA\_F  
 ClientSampled :

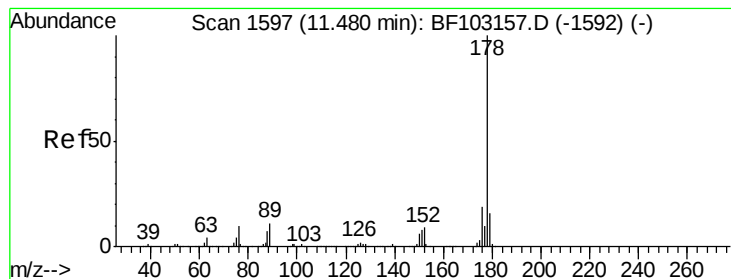
Tot Ion:266 Resp: 70048  
 Ion Ratio Lower Upper  
 266 100  
 268 62.3 51.1 76.7  
 264 61.8 49.5 74.3



#70  
 Phenanthrene  
 Concen: 29.267 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:178 Resp: 718061  
 Ion Ratio Lower Upper  
 178 100  
 176 20.2 15.8 23.8  
 179 15.5 13.0 19.6





#71

Anthracene

Concen: 30.535 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

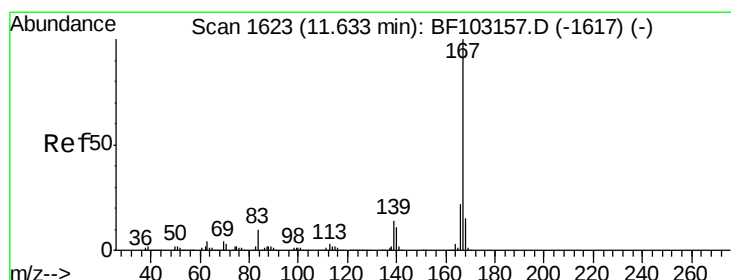
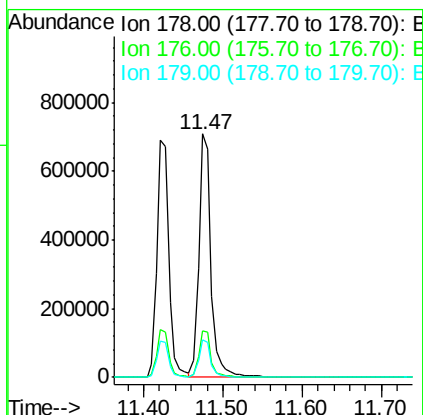
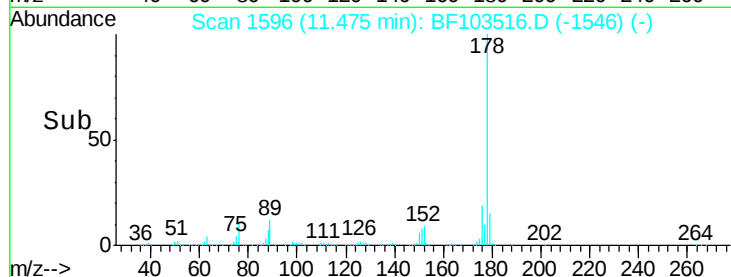
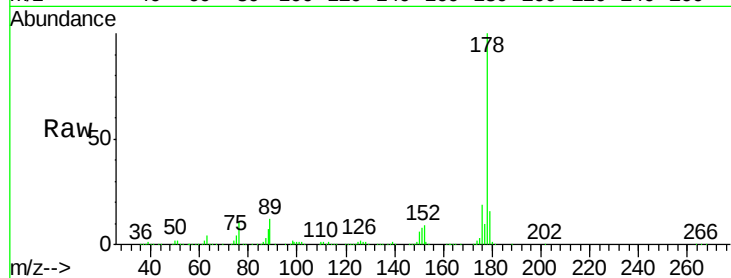
Tot Ion:178 Resp: 768234

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.6 12.6 19.0



#72

Carbazole

Concen: 29.725 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

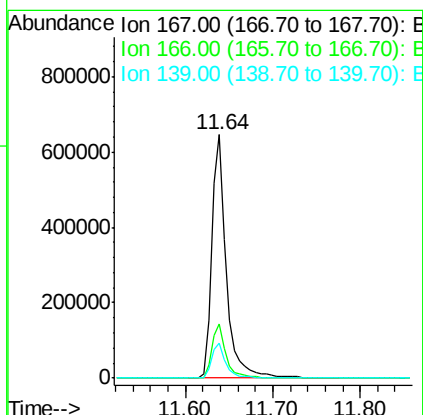
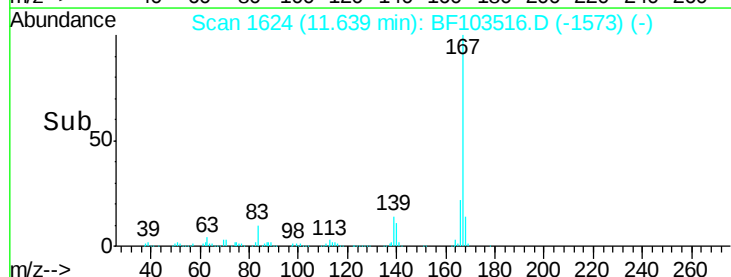
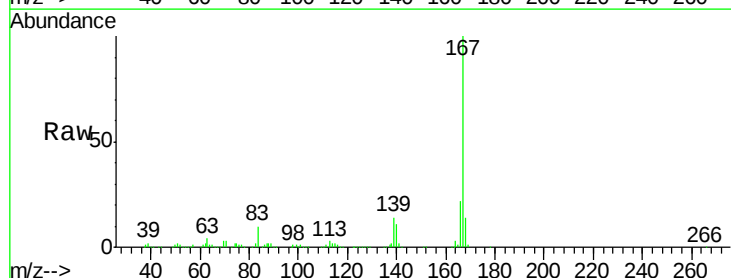
Tgt Ion:167 Resp: 744751

Ion Ratio Lower Upper

167 100

166 22.2 17.6 26.4

139 14.2 10.9 16.3





#73

Di-n-butylphthalate

Concen: 30.259 ng

RT: 11.95 min Scan# 1676

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampled :

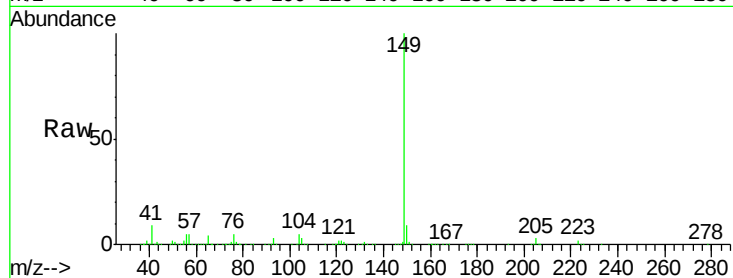
Tot Ion:149 Resp: 948632

Ion Ratio Lower Upper

149 100

150 9.4 7.8 11.6

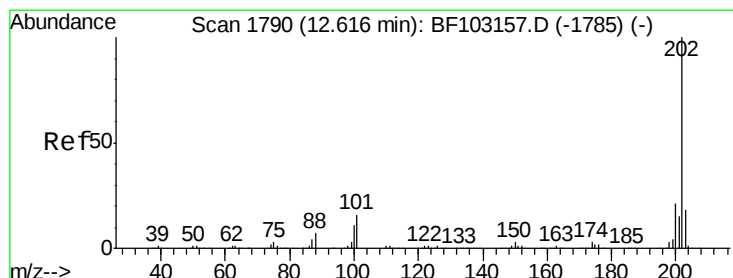
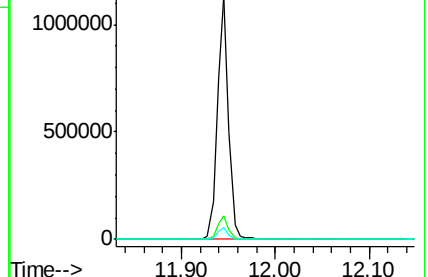
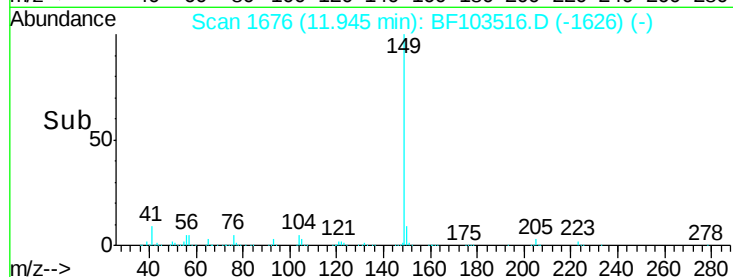
104 5.1 3.8 5.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 29.676 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

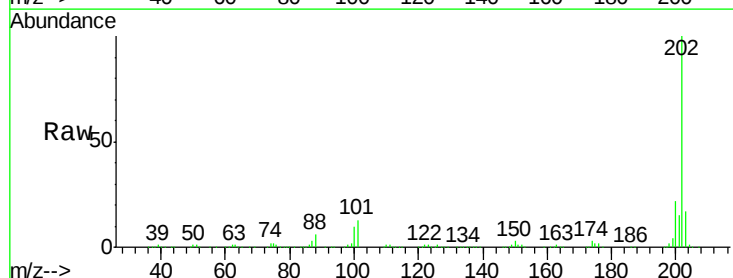
Tgt Ion:202 Resp: 731653

Ion Ratio Lower Upper

202 100

101 13.2 0.0 34.1

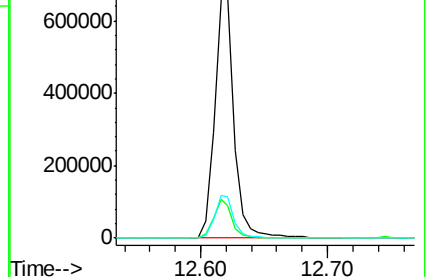
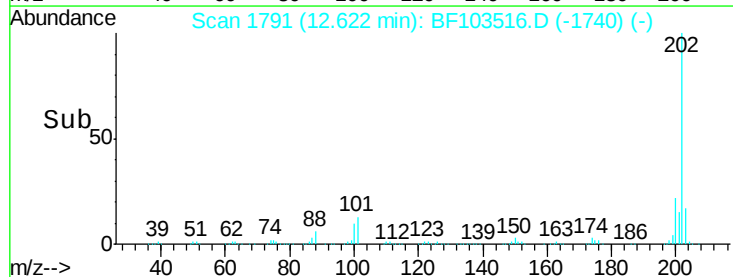
203 17.2 0.0 38.1

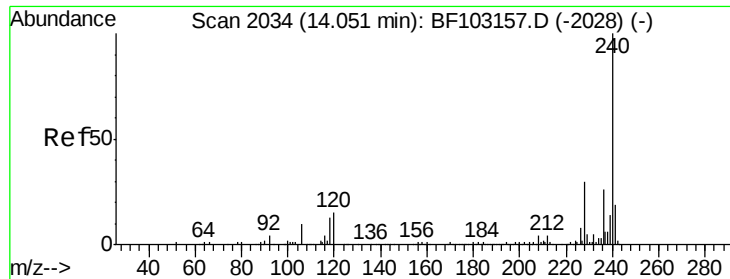


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

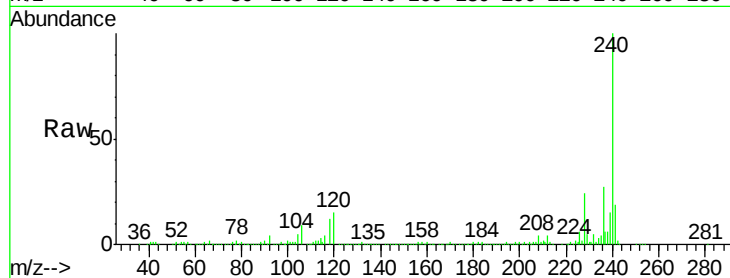
Tot Ion:240 Resp: 294759

Ion Ratio Lower Upper

240 100

120 14.5 9.5 14.3#

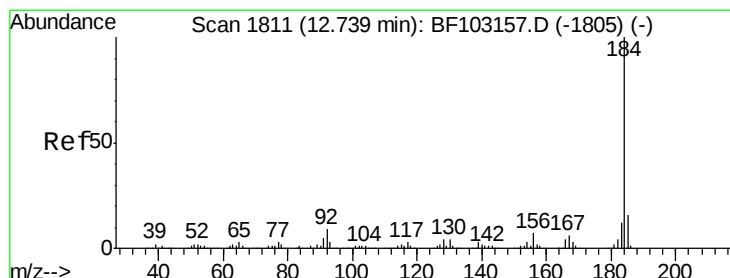
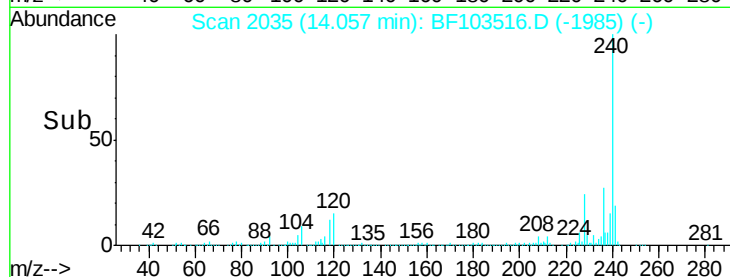
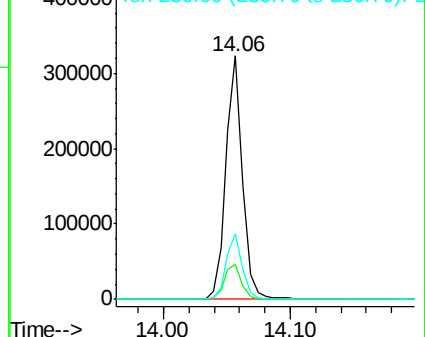
236 27.0 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 38.299 ng

RT: 12.75 min Scan# 1812

Delta R.T. 0.00 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

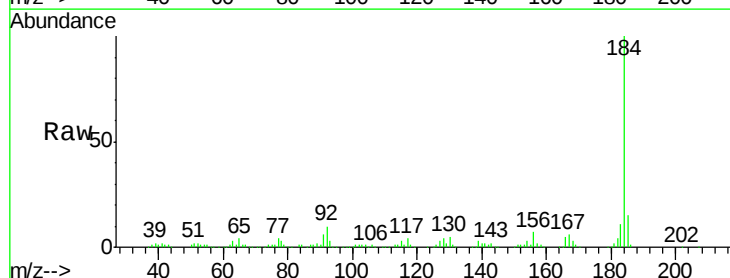
Tgt Ion:184 Resp: 422040

Ion Ratio Lower Upper

184 100

185 15.0 12.6 18.8

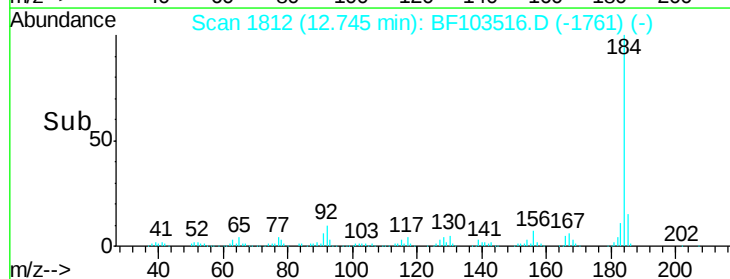
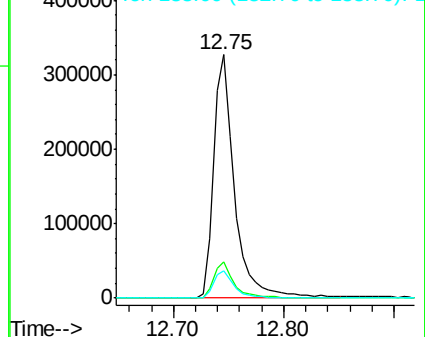
183 11.1 9.3 13.9

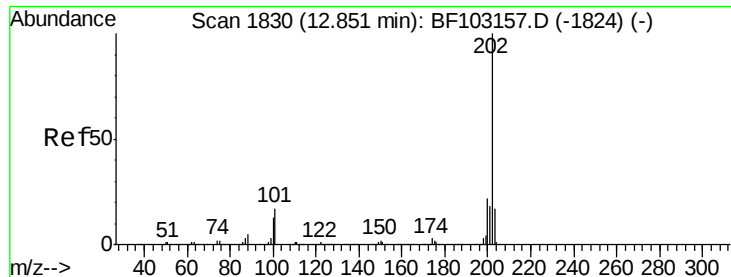


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 31.765 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

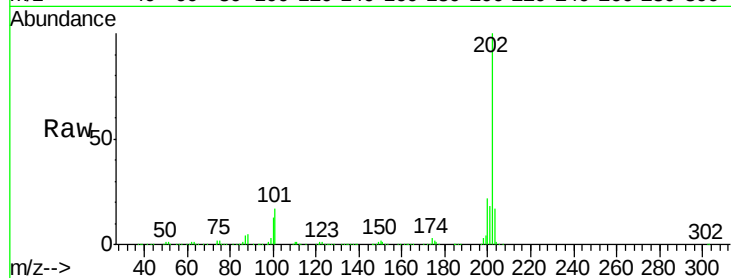
Tot Ion:202 Resp: 730008

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

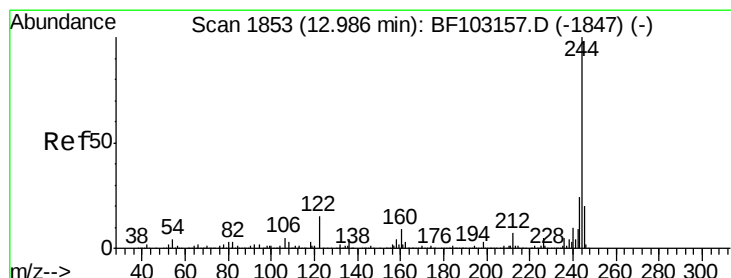
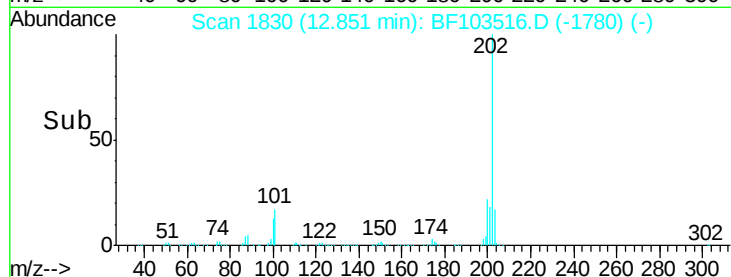
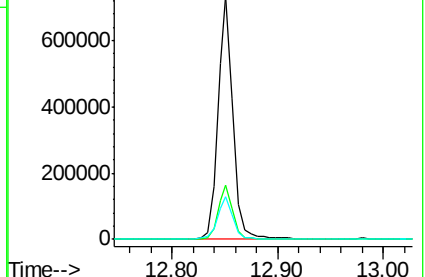
203 17.4 14.3 21.5



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



#78

Terphenyl-d14

Concen: 74.344 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

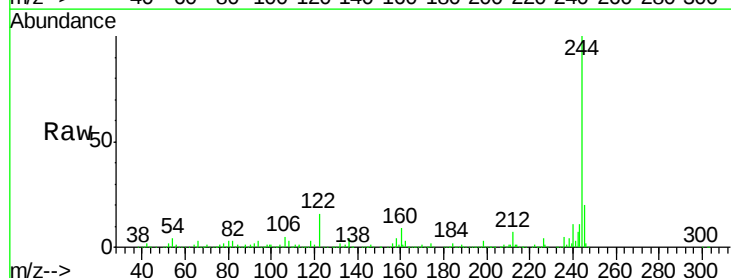
Tgt Ion:244 Resp: 911602

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

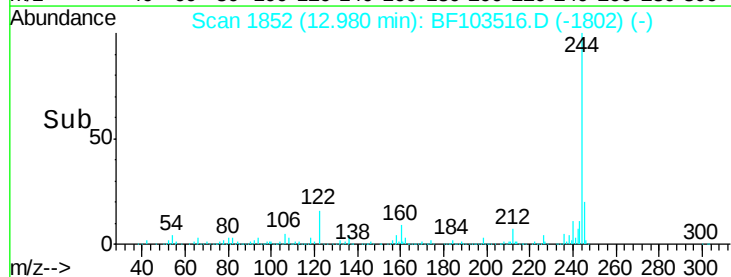
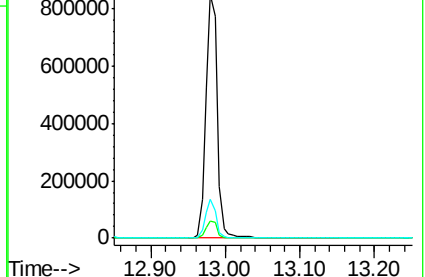
122 15.7 11.0 16.4



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

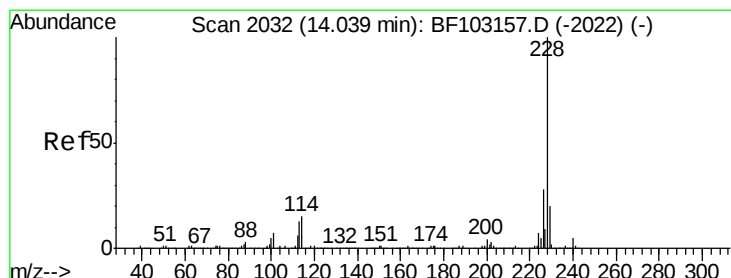
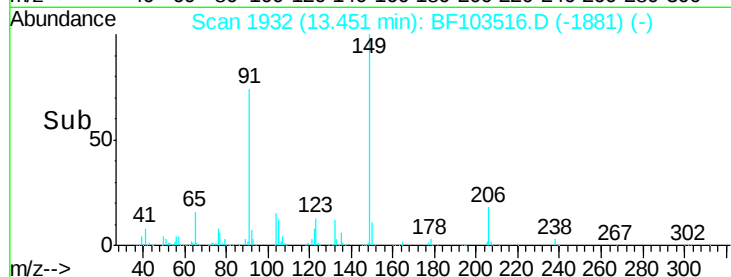
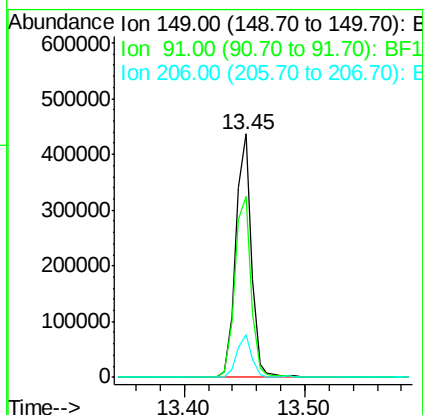
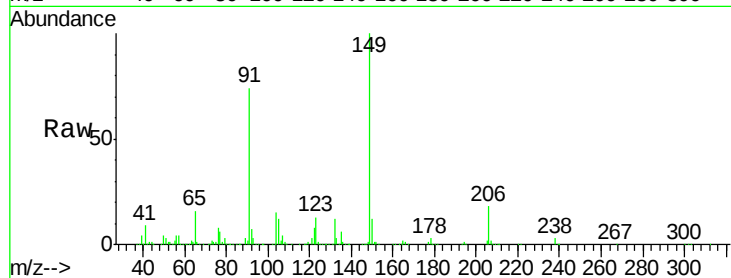




#79  
 Butylbenzylphthalate  
 Concen: 32.687 ng  
 RT: 13.45 min Scan# 1932  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

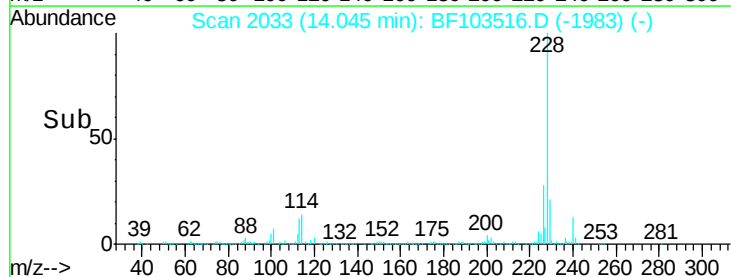
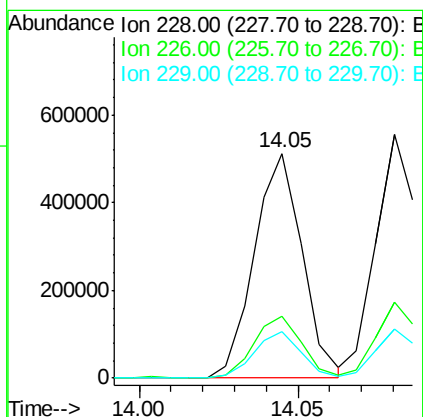
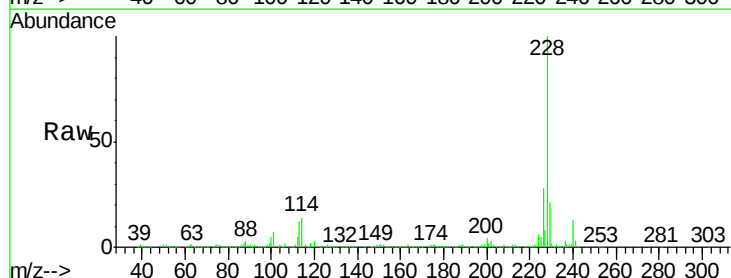
Instrument :  
 BNA\_F  
 ClientSampled :

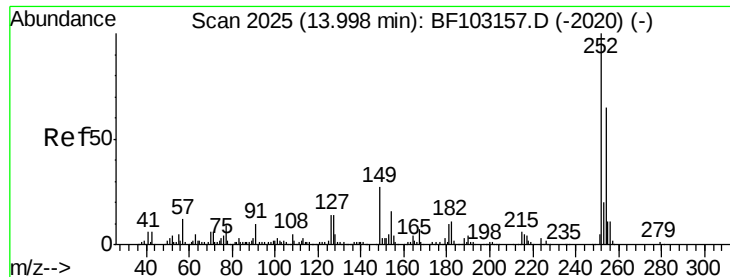
Tot Ion:149 Resp: 396876  
 Ion Ratio Lower Upper  
 149 100  
 91 74.0 56.8 85.2  
 206 17.6 14.1 21.1



#80  
 Benzo(a)anthracene  
 Concen: 28.092 ng  
 RT: 14.05 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:228 Resp: 537258  
 Ion Ratio Lower Upper  
 228 100  
 226 27.8 22.6 33.8  
 229 20.7 15.8 23.6

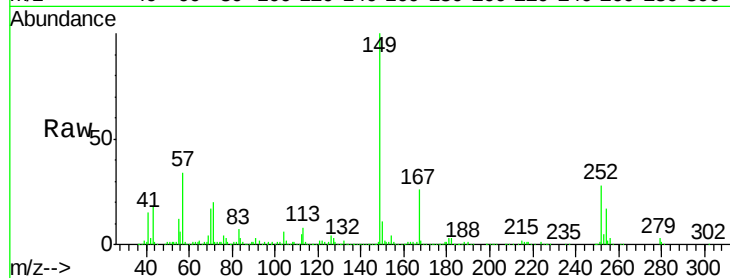




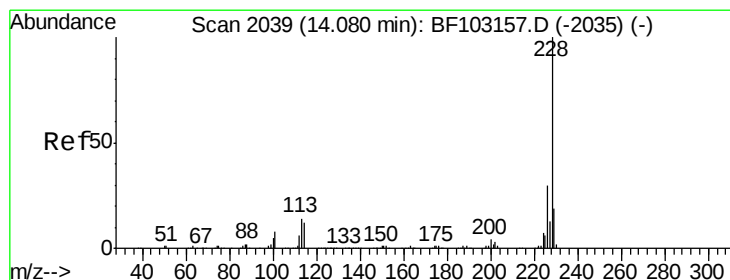
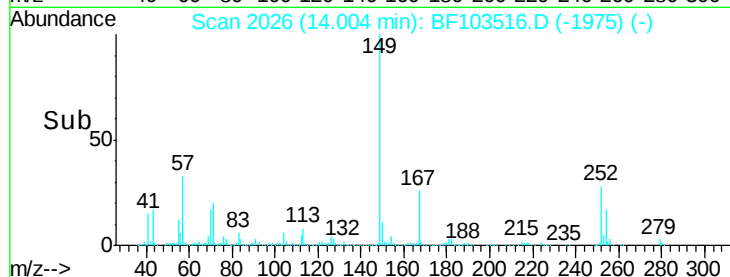
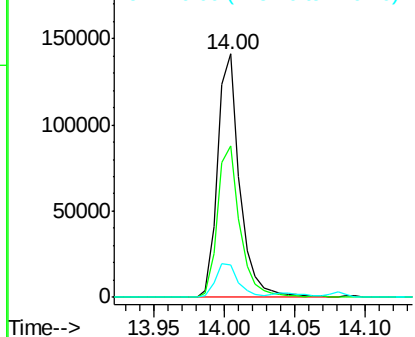
#81  
 3,3'-Dichlorobenzidine  
 Concen: 22.667 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. 0.00 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:252 Resp: 154711  
 Ion Ratio Lower Upper  
 252 100  
 254 62.2 50.4 75.6  
 126 13.2 11.3 16.9

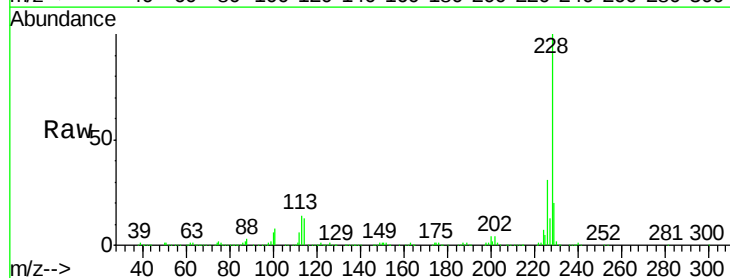


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

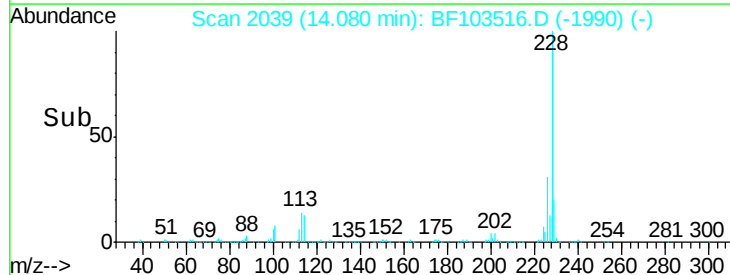
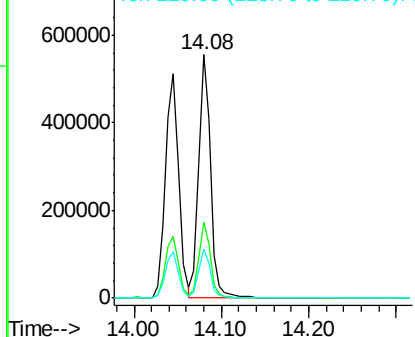


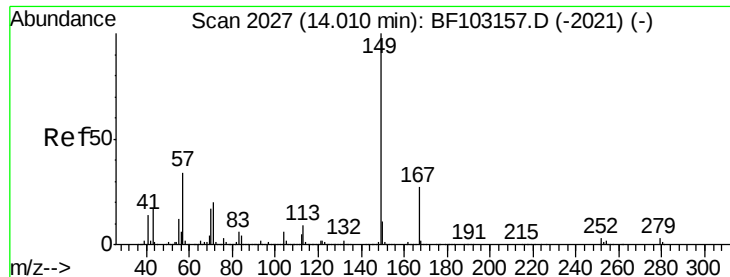
#82  
 Chrysene  
 Concen: 28.722 ng  
 RT: 14.08 min Scan# 2039  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:228 Resp: 533360  
 Ion Ratio Lower Upper  
 228 100  
 226 31.0 25.0 37.6  
 229 20.4 16.2 24.4



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

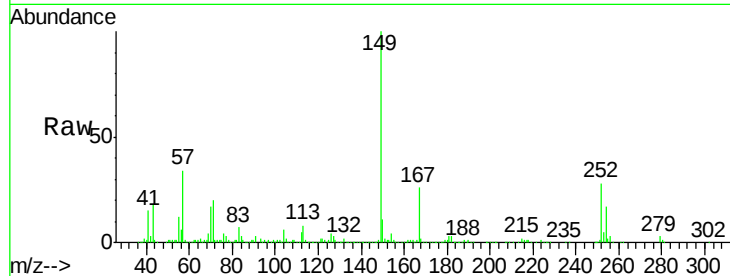




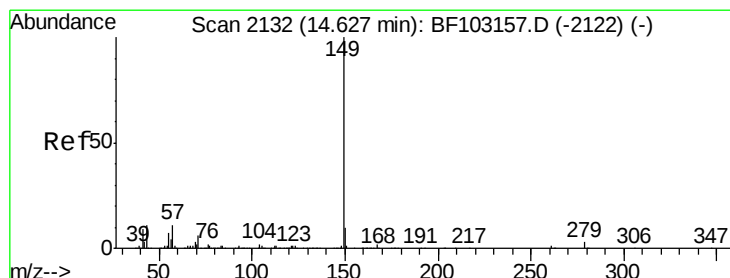
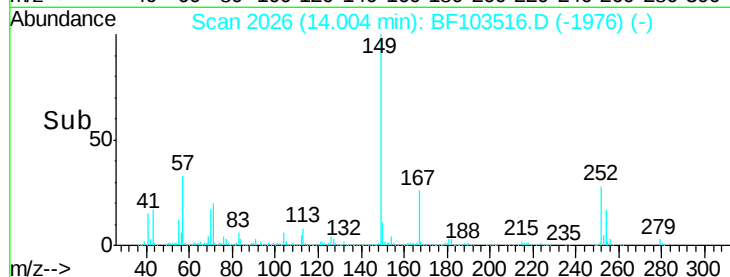
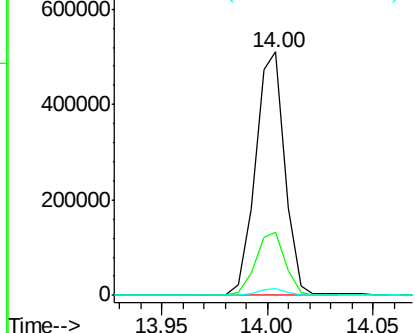
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 30.111 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. -0.01 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:149 Resp: 493369  
 Ion Ratio Lower Upper  
 149 100  
 167 25.8 21.3 31.9  
 279 2.9 3.0 4.4#

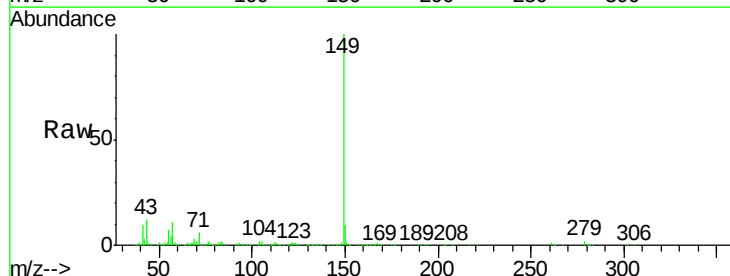


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

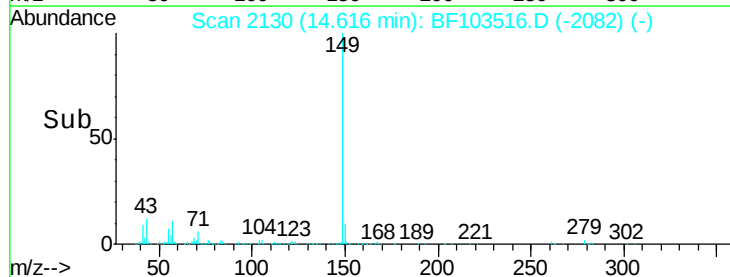
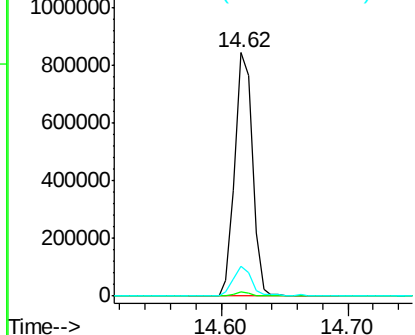


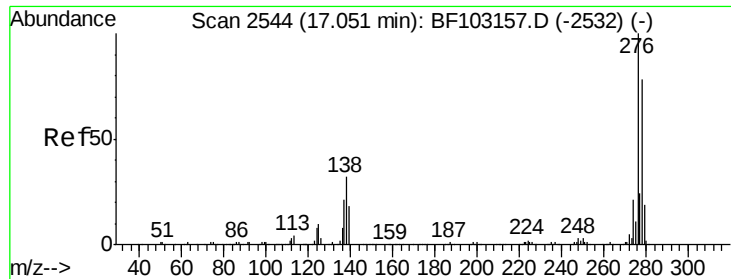
#84  
 Di-n-octyl phthalate  
 Concen: 30.661 ng  
 RT: 14.62 min Scan# 2130  
 Delta R.T. -0.02 min  
 Lab File: BF103516.D  
 Acq: 8 Mar 2018 15:08

Tgt Ion:149 Resp: 811700  
 Ion Ratio Lower Upper  
 149 100  
 167 1.6 1.2 1.8  
 43 11.6 8.4 12.6



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 43.00 (42.70 to 43.70): BF1

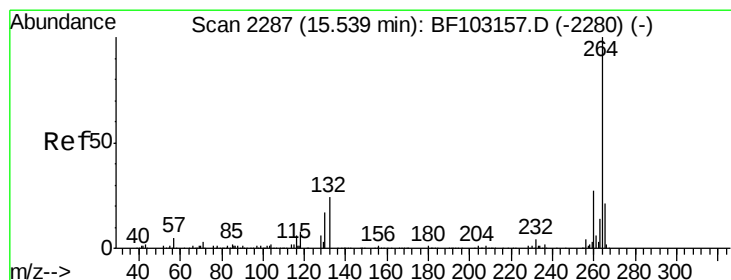
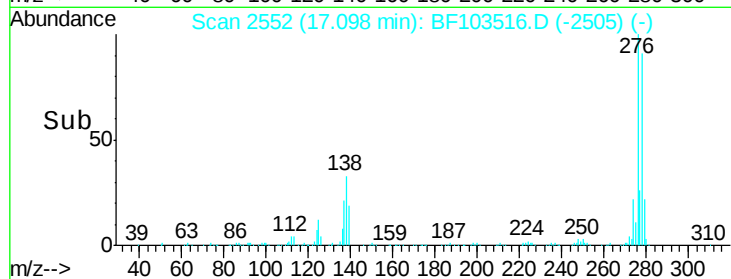
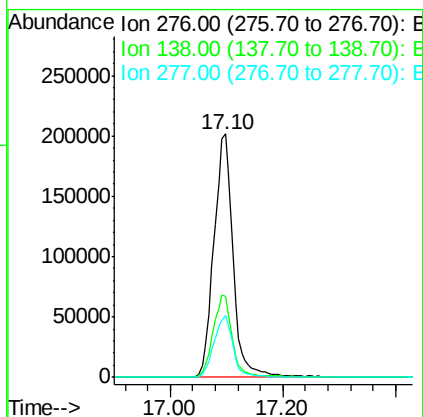
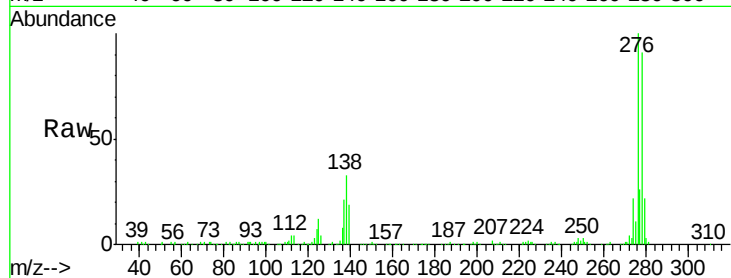




#85  
Indeno(1,2,3-cd)pyrene  
Concen: 32.527 ng  
RT: 17.10 min Scan# 2552  
Delta R.T. -0.02 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

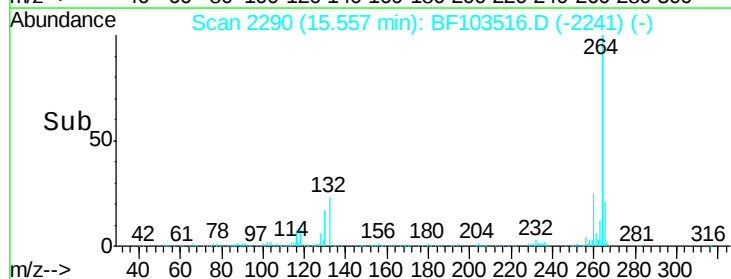
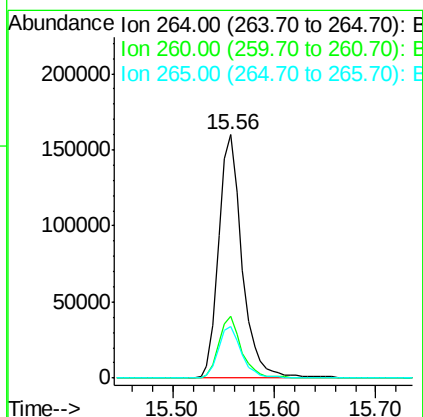
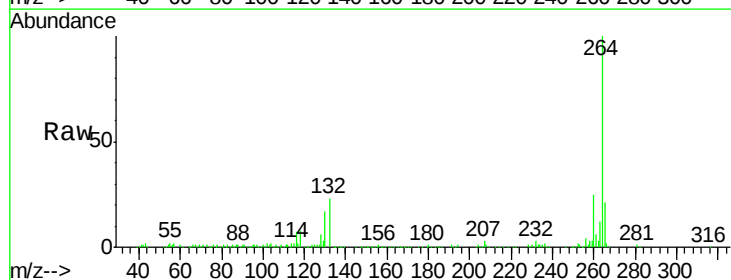
Instrument :  
BNA\_F  
ClientSampled :

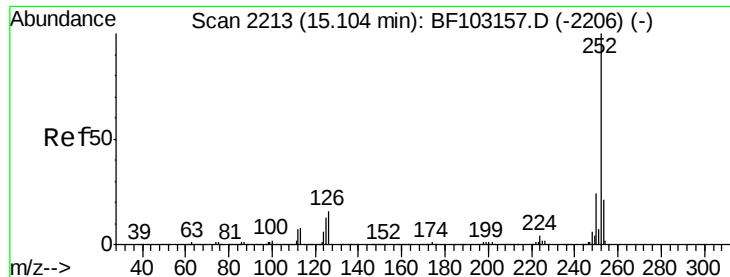
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.2  | 25.0  | 37.6  |
| 277     | 25.1  | 20.1  | 30.1  |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. -0.01 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.4  | 19.2  | 28.8  |
| 265     | 21.2  | 17.5  | 26.3  |

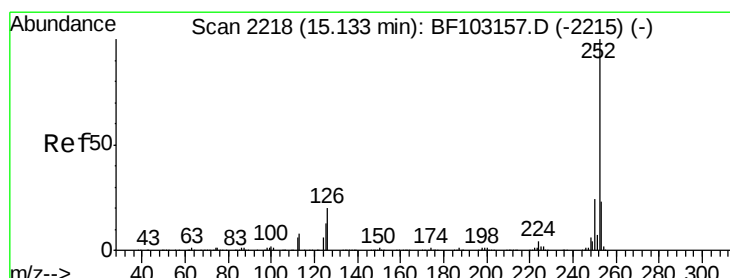
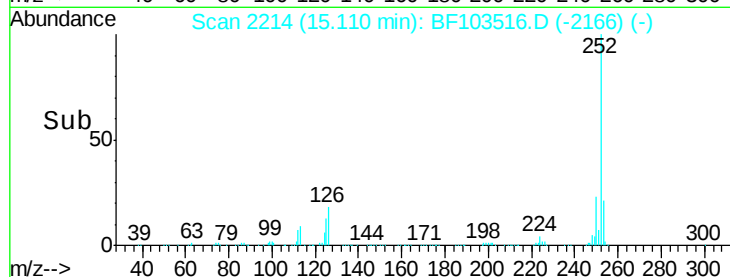
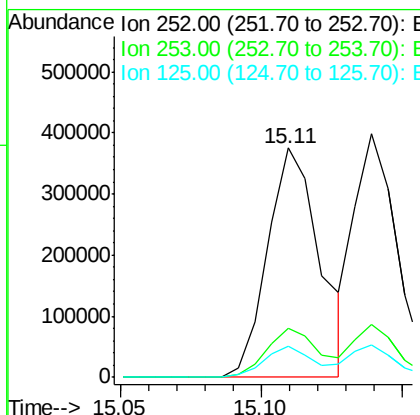
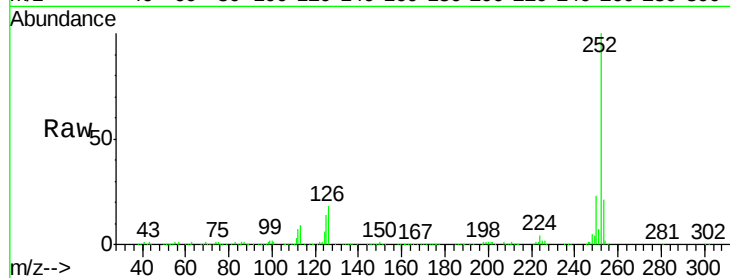




#87  
Benzo(b)fluoranthene  
Concen: 28.451 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.02 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

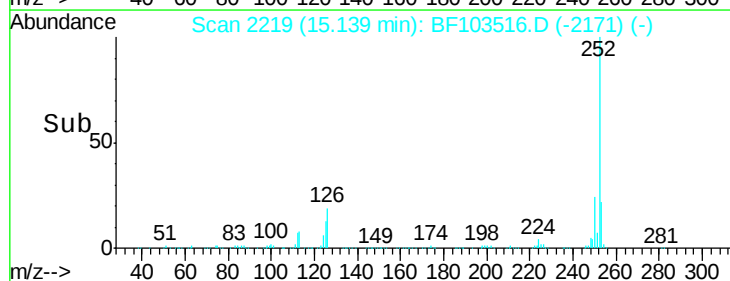
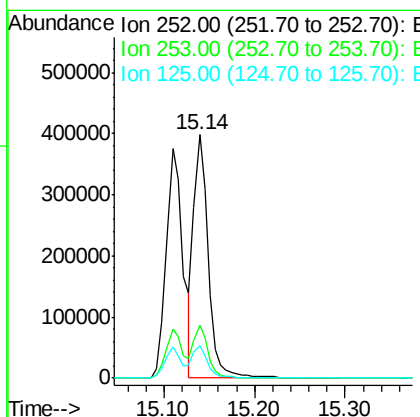
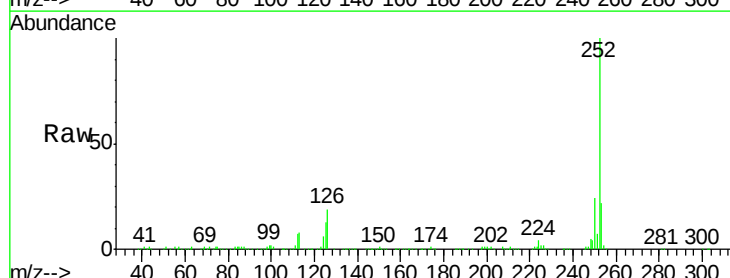
Instrument :  
BNA\_F  
ClientSampled :

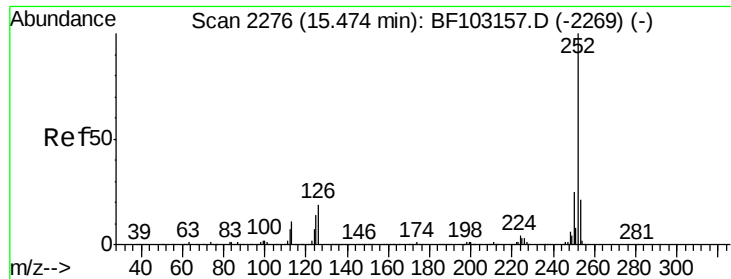
Tot Ion:252 Resp: 482563  
Ion Ratio Lower Upper  
252 100  
253 21.5 17.0 25.6  
125 13.6 9.0 13.6



#88  
Benzo(k)fluoranthene  
Concen: 27.494 ng  
RT: 15.14 min Scan# 2219  
Delta R.T. -0.02 min  
Lab File: BF103516.D  
Acq: 8 Mar 2018 15:08

Tgt Ion:252 Resp: 439121  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.9 26.9  
125 13.5 10.2 15.2





#89

Benzo(a)pyrene

Concen: 29.148 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.02 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

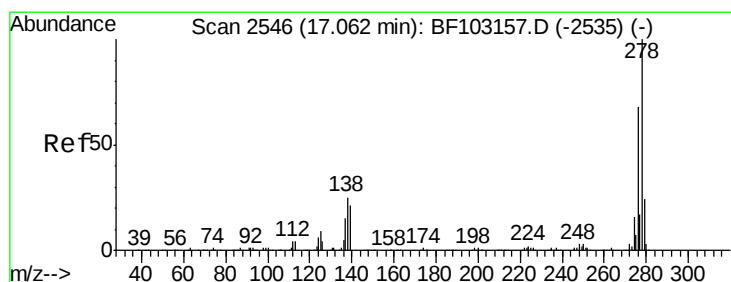
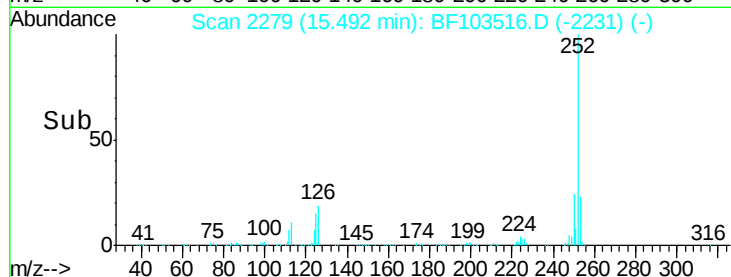
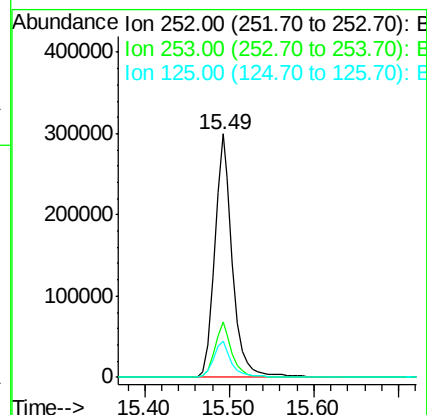
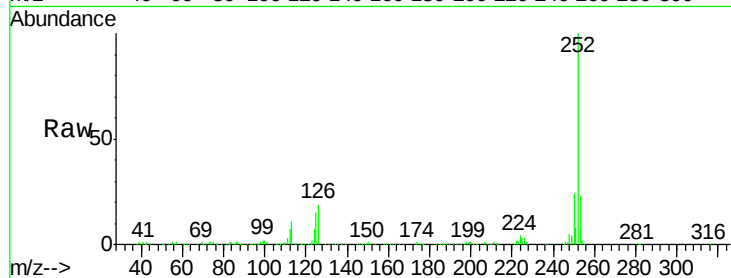
Tot Ion:252 Resp: 441492

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

125 14.7 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 33.860 ng

RT: 17.10 min Scan# 2552

Delta R.T. -0.02 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

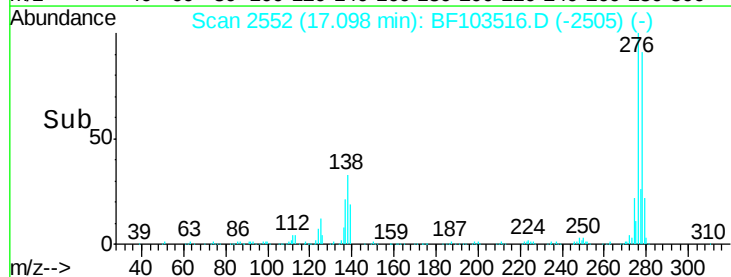
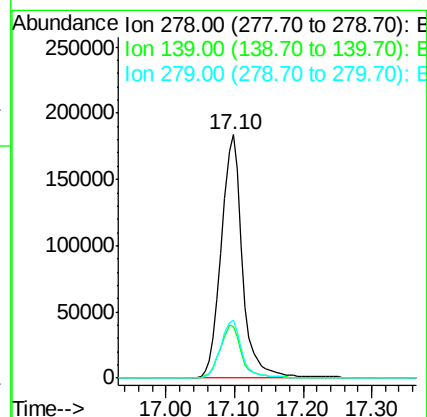
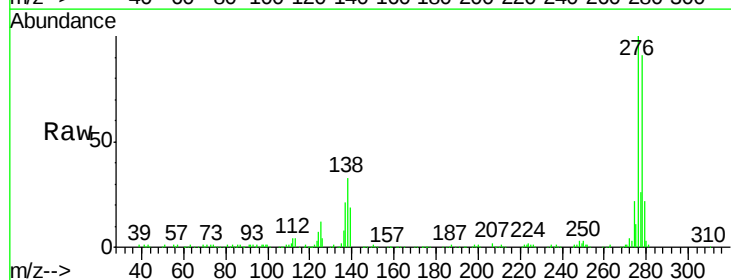
Tgt Ion:278 Resp: 396285

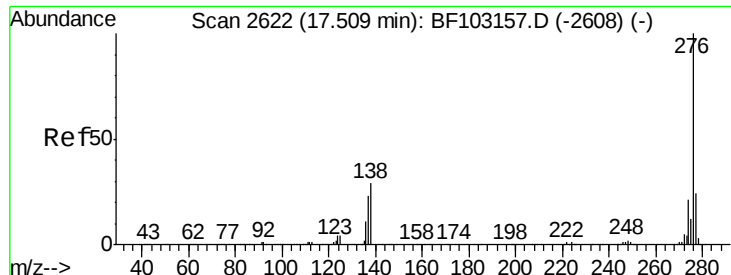
Ion Ratio Lower Upper

278 100

139 21.2 15.9 23.9

279 23.7 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 35.781 ng

RT: 17.56 min Scan# 2631

Delta R.T. -0.02 min

Lab File: BF103516.D

Acq: 8 Mar 2018 15:08

Instrument :

BNA\_F

ClientSampleId :

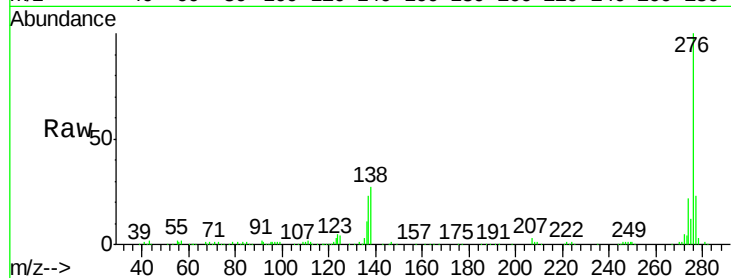
Tot Ion:276 Resp: 409288

Ion Ratio Lower Upper

276 100

277 22.9 17.9 26.9

138 27.0 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

