

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF042919\  
 Data File : BF114019.D  
 Acq On : 29 Apr 2019 12:46  
 Operator : JU/SJ  
 Sample : K2571-01MS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

Quant Time: Apr 30 01:19:59 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 93432    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 355725   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 180489   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.41 | 188  | 316986   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 211381   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.55 | 264  | 248004   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.52  | 112  | 611357   | 111.91 | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 794410   | 115.91 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 480223   | 83.35  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 232109   | 105.57 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 969761   | 84.03  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.99 | 244  | 904904   | 87.76  | ng    | -0.01    |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 2.73 | 88   | 86159    | 33.459 | ng    | 99     |
| 3) Pyridine                    | 3.49 | 79   | 219020   | 31.160 | ng    | 98     |
| 4) n-Nitrosodimethylamine      | 3.42 | 42   | 82337    | 34.221 | ng    | 94     |
| 6) Aniline                     | 6.55 | 93   | 239768   | 25.477 | ng    | 97     |
| 8) 2-Chlorophenol              | 6.68 | 128  | 239355   | 38.378 | ng    | 99     |
| 9) Benzaldehyde                | 6.44 | 77   | 58203    | 10.401 | ng    | 95     |
| 10) Phenol                     | 6.53 | 94   | 312090   | 38.081 | ng    | 98     |
| 11) bis(2-Chloroethyl)ether    | 6.63 | 93   | 233238   | 37.820 | ng    | 96     |
| 12) 1,3-Dichlorobenzene        | 6.84 | 146  | 270330   | 38.271 | ng    | 97     |
| 13) 1,4-Dichlorobenzene        | 6.91 | 146  | 276894   | 38.974 | ng    | 98     |
| 14) 1,2-Dichlorobenzene        | 7.06 | 146  | 261172   | 40.000 | ng    | 98     |
| 15) Benzyl Alcohol             | 7.03 | 79   | 200741   | 43.489 | ng    | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.17 | 45   | 261387   | 36.308 | ng    | 91     |
| 17) 2-Methylphenol             | 7.15 | 107  | 207107   | 37.883 | ng    | 97     |
| 18) Hexachloroethane           | 7.41 | 117  | 94779    | 38.056 | ng    | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.30 | 70   | 168125   | 37.880 | ng    | 98     |
| 20) 3+4-Methylphenols          | 7.29 | 107  | 245963   | 39.821 | ng    | # 81   |
| 22) Acetophenone               | 7.30 | 105  | 335136   | 42.336 | ng    | 96     |
| 24) Nitrobenzene               | 7.47 | 77   | 258879   | 40.666 | ng    | 99     |
| 25) Isophorone                 | 7.71 | 82   | 464096   | 39.368 | ng    | 99     |
| 26) 2-Nitrophenol              | 7.79 | 139  | 126155   | 43.439 | ng    | 92     |
| 27) 2,4-Dimethylphenol         | 7.82 | 122  | 207948   | 43.948 | ng    | 99     |
| 28) bis(2-Chloroethoxy)methane | 7.92 | 93   | 298036   | 39.675 | ng    | 99     |
| 29) 2,4-Dichlorophenol         | 8.03 | 162  | 220945   | 40.834 | ng    | 99     |
| 30) 1,2,4-Trichlorobenzene     | 8.12 | 180  | 243488   | 40.358 | ng    | 97     |
| 31) Naphthalene                | 8.20 | 128  | 701834   | 41.531 | ng    | 99     |
| 32) Benzoic acid               | 7.89 | 122  | 32843    | 10.278 | ng    | 96     |
| 33) 4-Chloroaniline            | 8.24 | 127  | 159707   | 22.335 | ng    | 96     |
| 34) Hexachlorobutadiene        | 8.32 | 225  | 148567   | 39.502 | ng    | 98     |
| 35) Caprolactam                | 8.59 | 113  | 54196    | 31.487 | ng    | 98     |
| 36) 4-Chloro-3-methylphenol    | 8.72 | 107  | 213993   | 39.919 | ng    | 98     |
| 37) 2-Methylnaphthalene        | 8.89 | 142  | 480007   | 42.122 | ng    | 99     |
| 38) 1-Methylnaphthalene        | 8.99 | 142  | 447755   | 40.710 | ng    | 98     |
| 40) 1,2,4,5-Tetrachlorobenzene | 9.05 | 216  | 245367   | 41.851 | ng    | 99     |

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 ALS Vial : 4 Sample Multiplier: 1

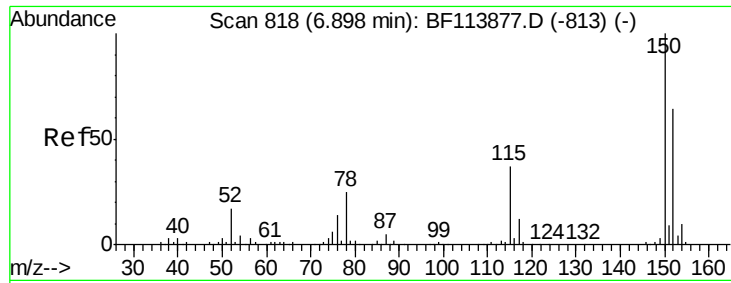
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

Quant Time: Apr 30 01:19:59 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF042219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 23 03:32:35 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 9.05  | 237  | 264254   | 80.827 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol      | 9.16  | 196  | 156977   | 42.165 | ng    | 97       |
| 44) 2,4,5-Trichlorophenol      | 9.20  | 196  | 171098   | 40.974 | ng    | 97       |
| 46) 1,1'-Biphenyl              | 9.35  | 154  | 590919   | 42.857 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 9.37  | 162  | 472021   | 42.097 | ng    | 100      |
| 48) 2-Nitroaniline             | 9.46  | 65   | 128732   | 43.796 | ng    | 87       |
| 49) Acenaphthylene             | 9.79  | 152  | 717834   | 40.894 | ng    | 98       |
| 50) Dimethylphthalate          | 9.65  | 163  | 641185   | 49.121 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.70  | 165  | 124803   | 44.566 | ng    | 98       |
| 52) Acenaphthene               | 9.96  | 154  | 435385   | 41.969 | ng    | 98       |
| 53) 3-Nitroaniline             | 9.87  | 138  | 95177    | 32.343 | ng    | 97       |
| 54) 2,4-Dinitrophenol          | 9.97  | 184  | 50954    | 46.001 | ng    | # 8      |
| 55) Dibenzofuran               | 10.13 | 168  | 646709   | 41.617 | ng    | 100      |
| 56) 4-Nitrophenol              | 10.03 | 139  | 168717   | 72.411 | ng    | 93       |
| 57) 2,4-Dinitrotoluene         | 10.10 | 165  | 160361   | 45.367 | ng    | 98       |
| 58) Fluorene                   | 10.47 | 166  | 478574   | 40.907 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.25 | 232  | 130791   | 35.642 | ng    | 98       |
| 60) Diethylphthalate           | 10.35 | 149  | 510970   | 41.222 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 10.46 | 204  | 254538   | 41.082 | ng    | 96       |
| 62) 4-Nitroaniline             | 10.48 | 138  | 111179   | 38.715 | ng    | 98       |
| 63) Azobenzene                 | 10.62 | 77   | 464094   | 38.630 | ng    | 99       |
| 65) 4,6-Dinitro-2-methylphenol | 10.52 | 198  | 45712    | 33.981 | ng    | 94       |
| 66) n-Nitrosodiphenylamine     | 10.58 | 169  | 430549   | 45.267 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether  | 10.96 | 248  | 156033   | 40.747 | ng    | 95       |
| 68) Hexachlorobenzene          | 11.03 | 284  | 171424   | 40.737 | ng    | 100      |
| 69) Atrazine                   | 11.10 | 200  | 132117   | 42.700 | ng    | 96       |
| 70) Pentachlorophenol          | 11.22 | 266  | 151147   | 63.440 | ng    | 98       |
| 71) Phenanthrene               | 11.44 | 178  | 673783   | 42.296 | ng    | 99       |
| 72) Anthracene                 | 11.49 | 178  | 683316   | 42.476 | ng    | 99       |
| 73) Carbazole                  | 11.64 | 167  | 577715   | 40.253 | ng    | 100      |
| 74) Di-n-butylphthalate        | 11.97 | 149  | 718398   | 42.552 | ng    | 100      |
| 75) Fluoranthene               | 12.63 | 202  | 662111   | 38.095 | ng    | 97       |
| 77) Benzidine                  | 12.74 | 184  | 126939   | 20.155 | ng    | # 86     |
| 78) Pyrene                     | 12.85 | 202  | 659045   | 44.584 | ng    | 99       |
| 80) Butylbenzylphthalate       | 13.46 | 149  | 269761   | 46.382 | ng    | 99       |
| 81) Benzo(a)anthracene         | 14.04 | 228  | 545336   | 43.787 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 14.00 | 252  | 67426    | 14.771 | ng    | 97       |
| 83) Chrysene                   | 14.08 | 228  | 552090   | 45.517 | ng    | 97       |
| 84) Bis(2-ethylhexyl)phthalate | 14.03 | 149  | 379645   | 51.305 | ng    | 99       |
| 85) Di-n-octyl phthalate       | 14.67 | 149  | 625412   | 53.997 | ng    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 17.05 | 276  | 747530   | 65.064 | ng    | 98       |
| 88) Benzo(b)fluoranthene       | 15.12 | 252  | 588016   | 37.475 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 15.15 | 252  | 573840   | 42.516 | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.49 | 252  | 580510   | 42.773 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 17.06 | 278  | 624561   | 49.022 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 17.49 | 276  | 635413   | 49.421 | ng    | 98       |

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



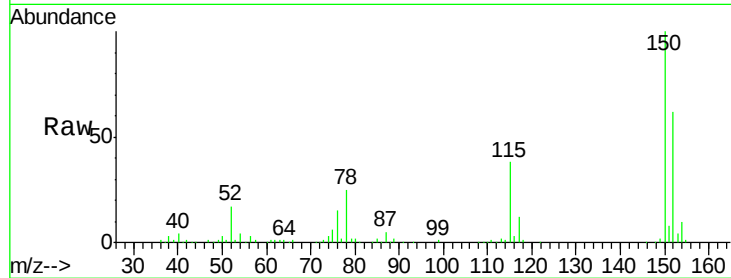


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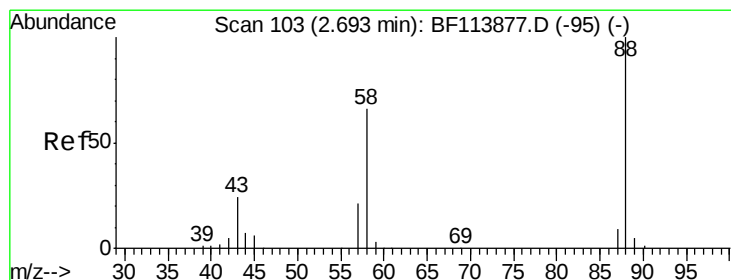
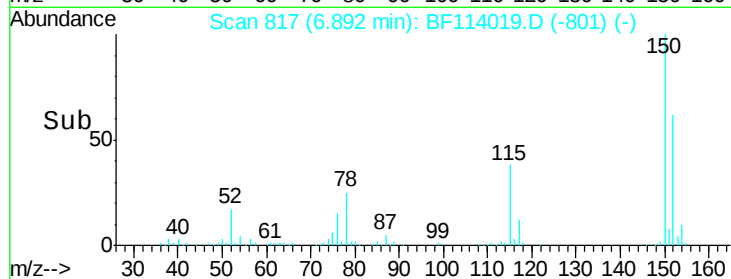
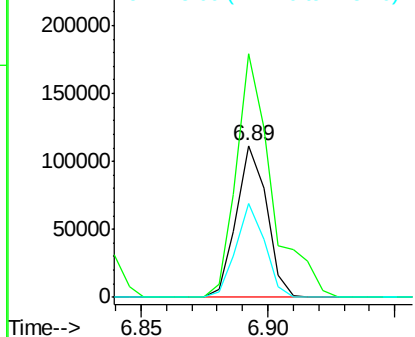
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 817  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

Tgt Ion: 152 Resp: 93432  
Ion Ratio Lower Upper  
152 100  
150 160.6 125.9 188.9  
115 61.7 45.9 68.9



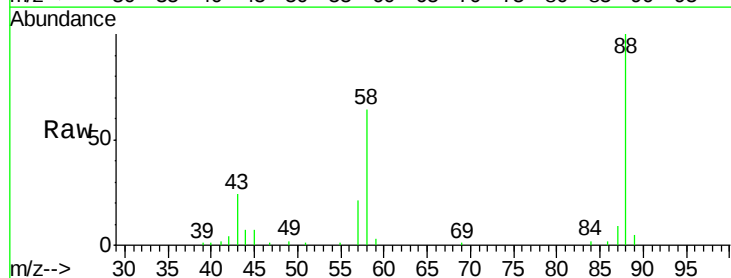
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



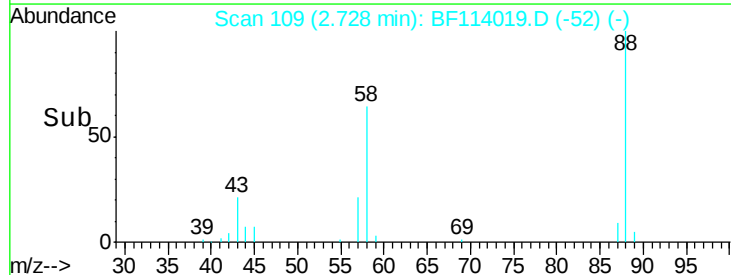
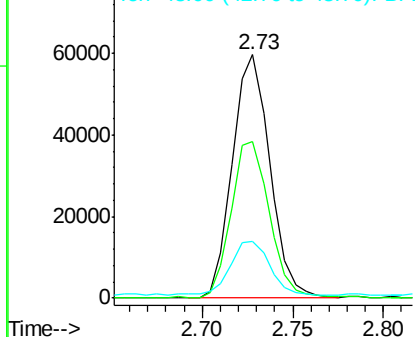
#2

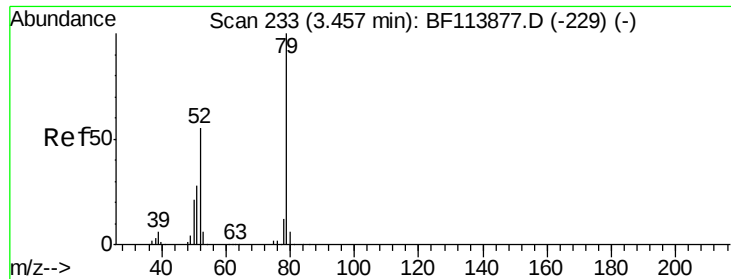
1,4-Dioxane  
Concen: 33.459 ng  
RT: 2.73 min Scan# 109  
Delta R.T. 0.04 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion: 88 Resp: 86159  
Ion Ratio Lower Upper  
88 100  
58 66.0 53.3 79.9  
43 22.8 19.0 28.4



Abundance Ion 88.00 (87.70 to 88.70): BF1  
Ion 58.00 (57.70 to 58.70): BF1  
Ion 43.00 (42.70 to 43.70): BF1





#3

Pyridine

Concen: 31.160 ng

RT: 3.49 min Scan# 238

Delta R.T. 0.03 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

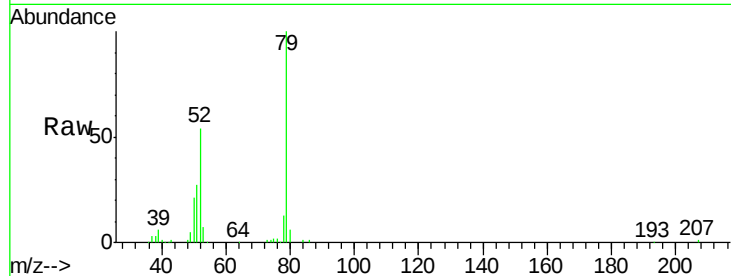
Tgt Ion: 79 Resp: 219020

Ion Ratio Lower Upper

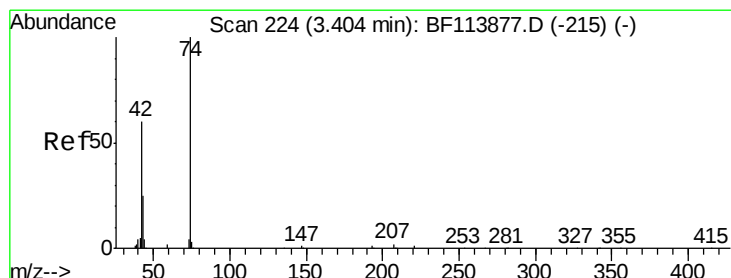
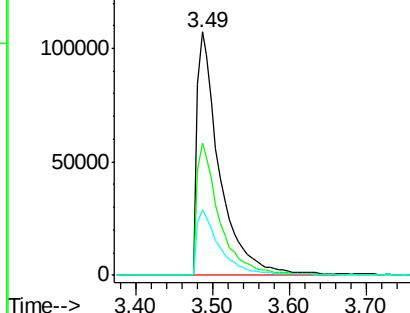
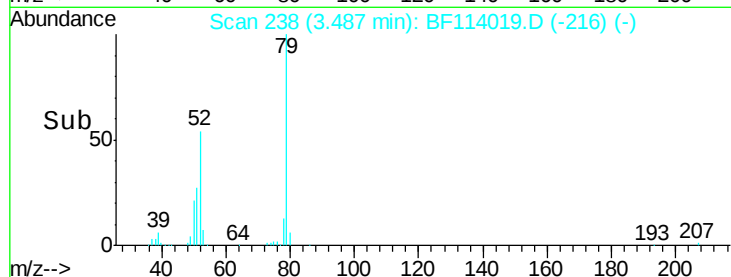
79 100

52 54.3 45.3 67.9

51 27.1 22.1 33.1



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



#4

n-Nitrosodimethylamine

Concen: 34.221 ng

RT: 3.42 min Scan# 227

Delta R.T. 0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

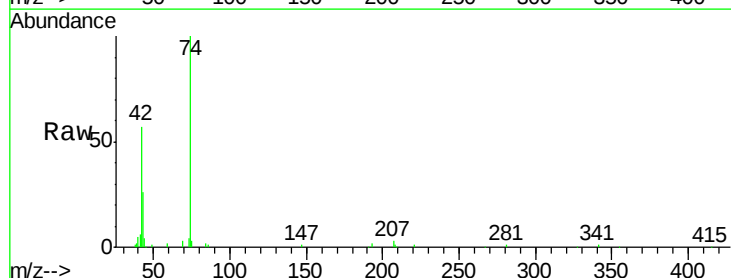
Tgt Ion: 42 Resp: 82337

Ion Ratio Lower Upper

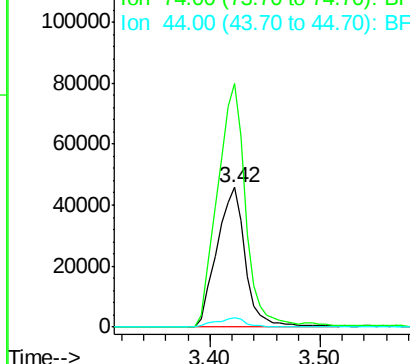
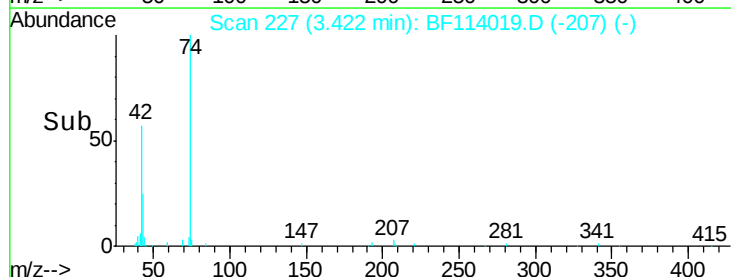
42 100

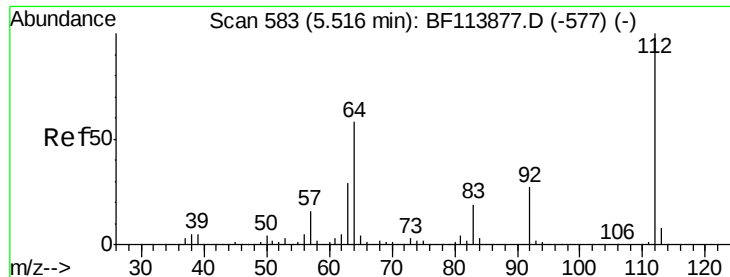
74 174.3 132.6 198.8

44 6.9 5.8 8.8



Abundance Ion 42.00 (41.70 to 42.70): BF1  
Ion 74.00 (73.70 to 74.70): BF1  
Ion 44.00 (43.70 to 44.70): BF1





#5

2-Fluorophenol

Concen: 111.914 ng

RT: 5.52 min Scan# 584

Delta R.T. 0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

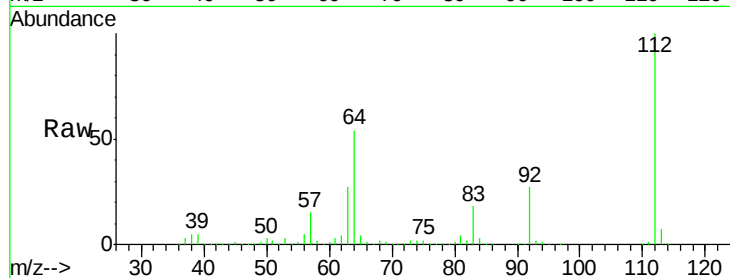
Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

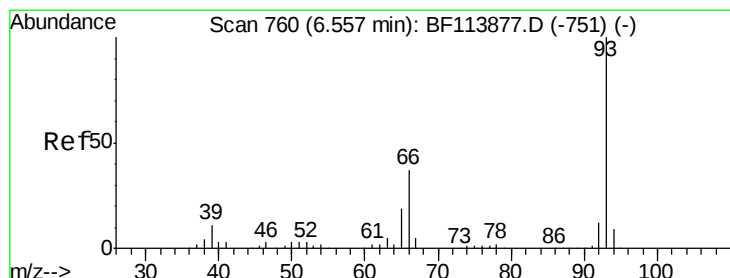
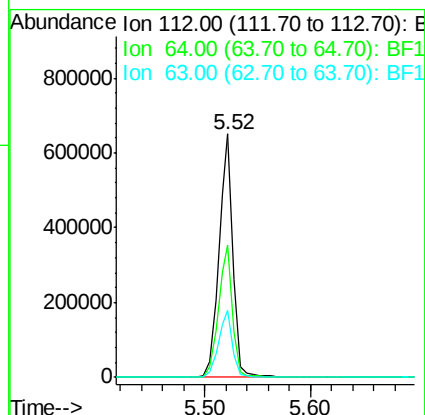
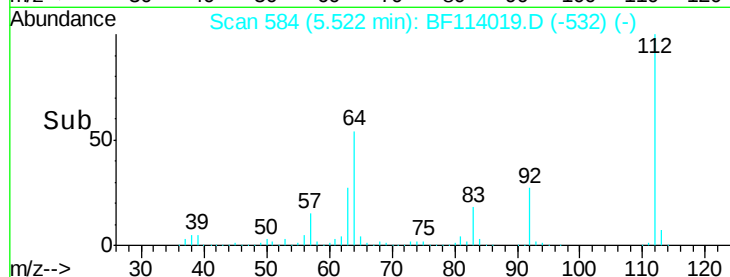
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 112   | Resp: | 611357 |
| Ion      | Ratio | Lower | Upper  |
| 112      | 100   |       |        |
| 64       | 54.5  | 46.6  | 69.8   |
| 63       | 27.3  | 23.1  | 34.7   |



Abundance Ion 112.00 (111.70 to 112.70): BF1

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 25.477 ng

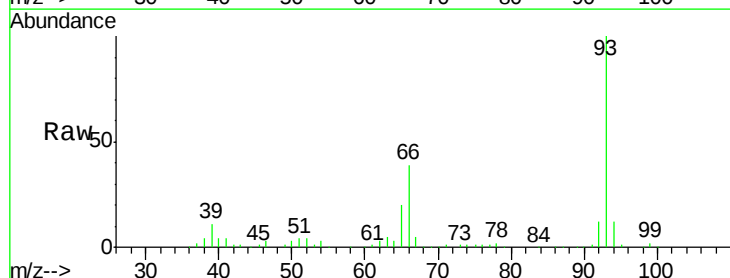
RT: 6.55 min Scan# 759

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

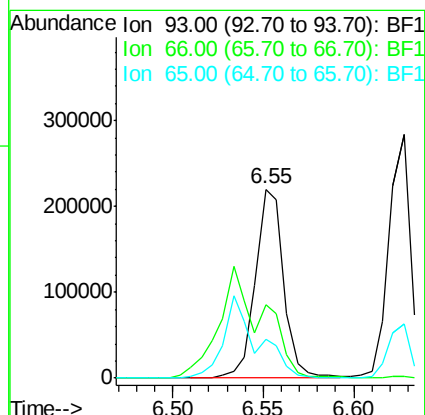
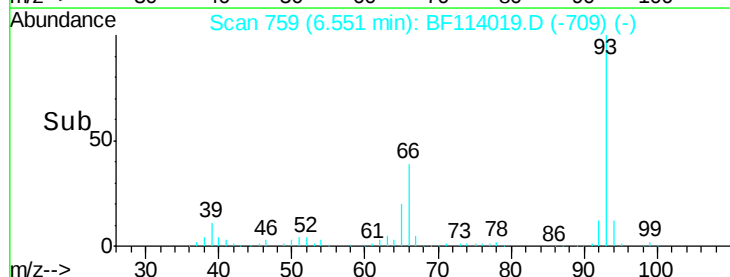
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 239768 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 66       | 39.0  | 29.8  | 44.6   |
| 65       | 20.5  | 14.9  | 22.3   |

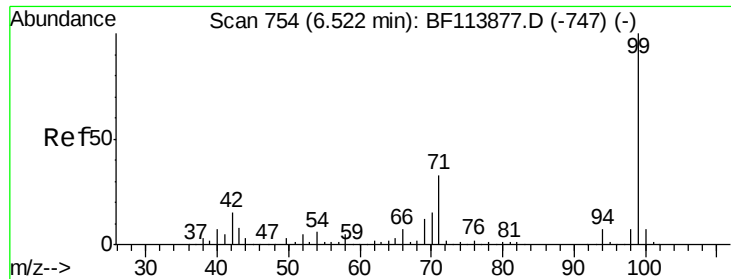


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 115.911 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.00 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

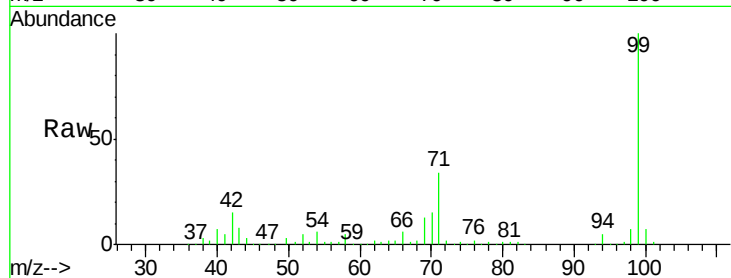
Tgt Ion: 99 Resp: 794410

Ion Ratio Lower Upper

99 100

42 15.1 12.5 18.7

71 34.1 26.9 40.3



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

800000

600000

400000

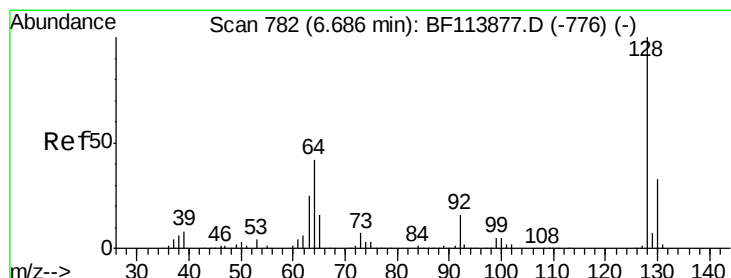
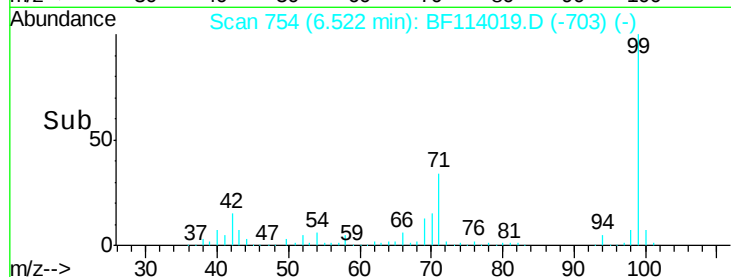
200000

0

6.50 6.60

6.52

Time-->



#8

2-Chlorophenol

Concen: 38.378 ng

RT: 6.68 min Scan# 781

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

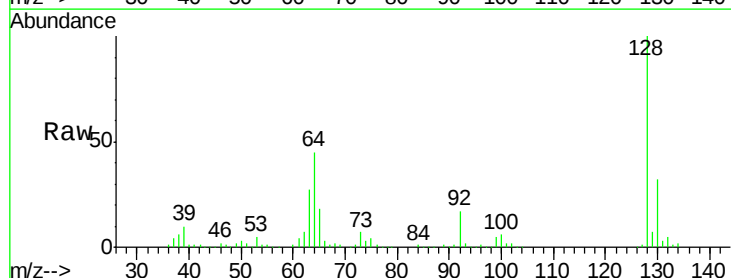
Tgt Ion: 128 Resp: 239355

Ion Ratio Lower Upper

128 100

130 32.5 12.3 52.3

64 45.3 26.1 66.1



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

400000

300000

200000

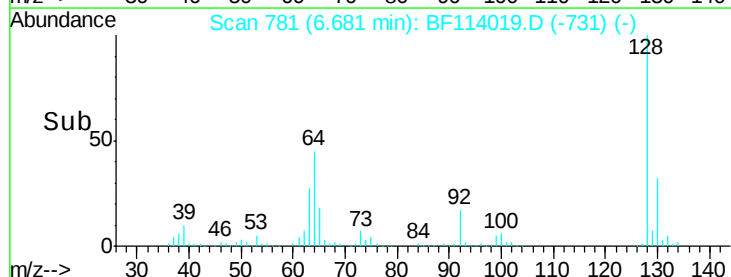
100000

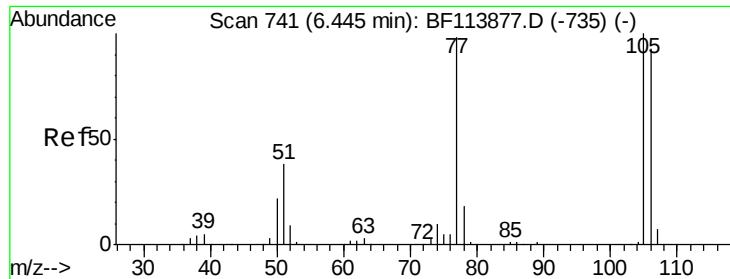
0

6.60 6.65 6.70 6.75 6.80

6.68

Time-->





#9

Benzaldehyde

Concen: 10.401 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

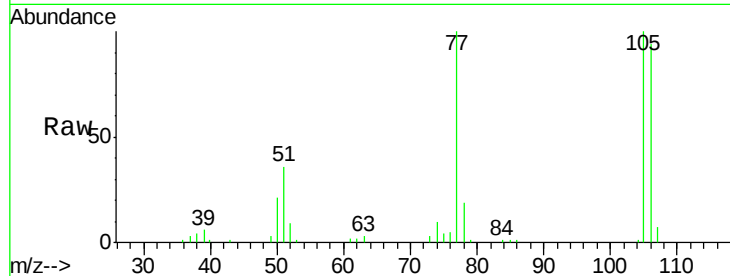
Tgt Ion: 77 Resp: 58203

Ion Ratio Lower Upper

77 100

105 100.1 74.1 114.1

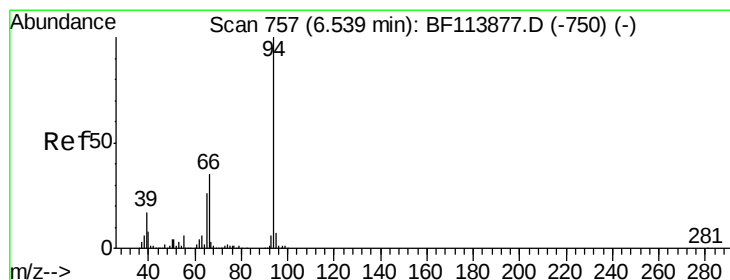
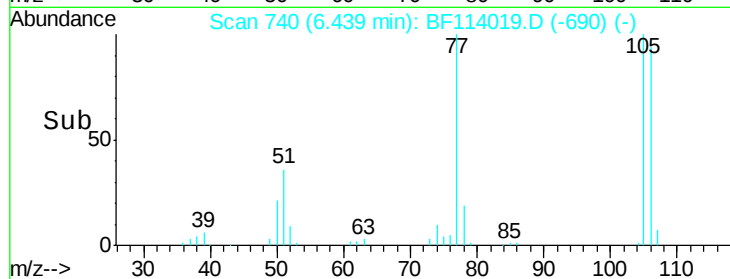
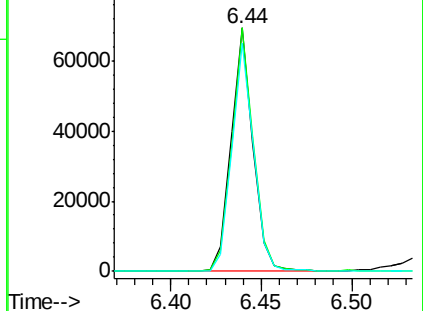
106 93.8 70.3 110.3



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 38.081 ng

RT: 6.53 min Scan# 756

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

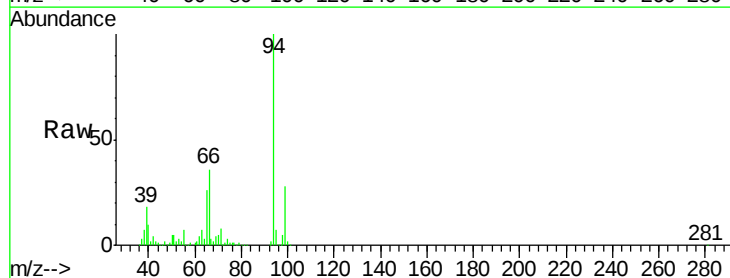
Tgt Ion: 94 Resp: 312090

Ion Ratio Lower Upper

94 100

65 26.3 8.1 48.1

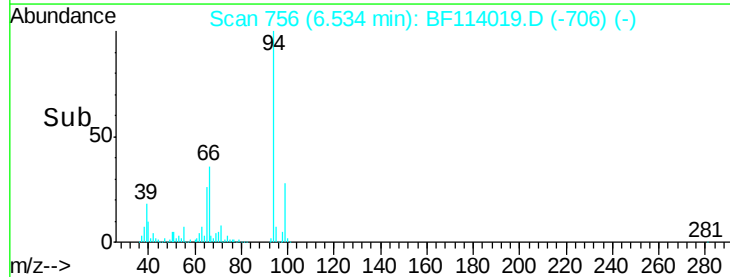
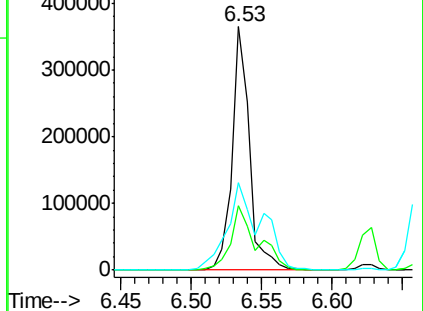
66 35.8 16.6 56.6

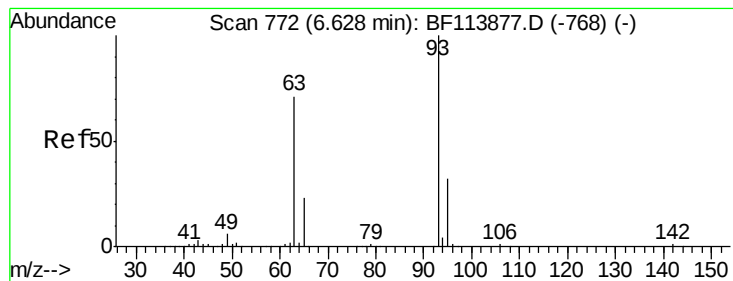


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

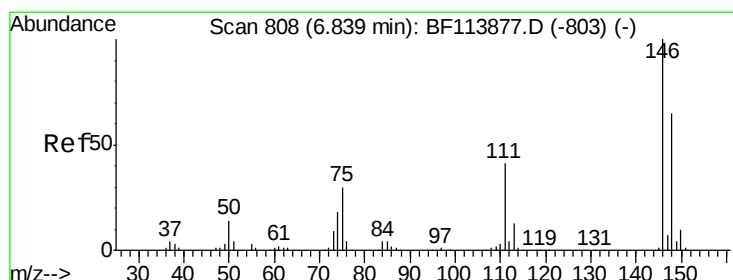
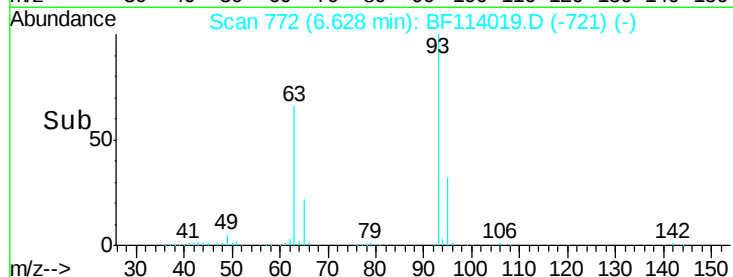
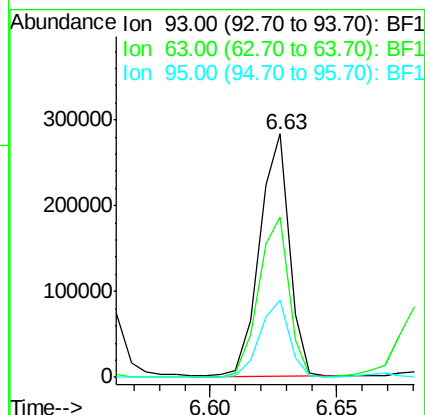
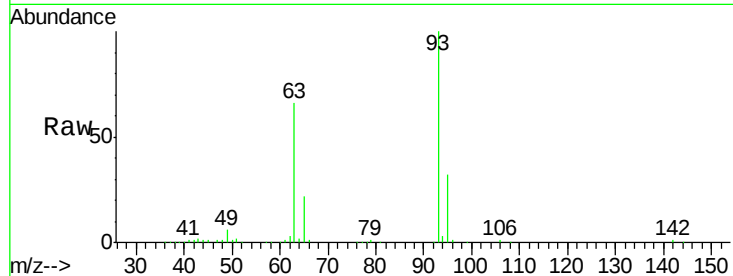




#11  
bis(2-Chloroethyl)ether  
Concen: 37.820 ng  
RT: 6.63 min Scan# 772  
Delta R.T. -0.00 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

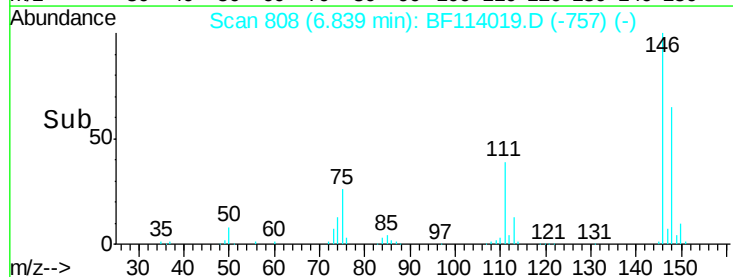
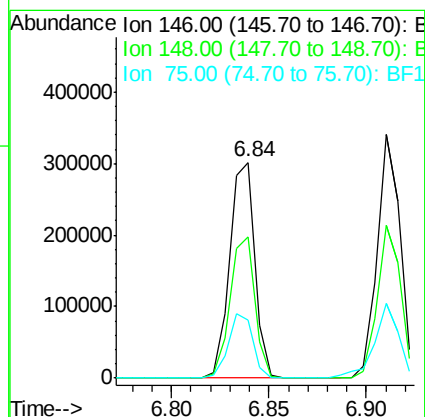
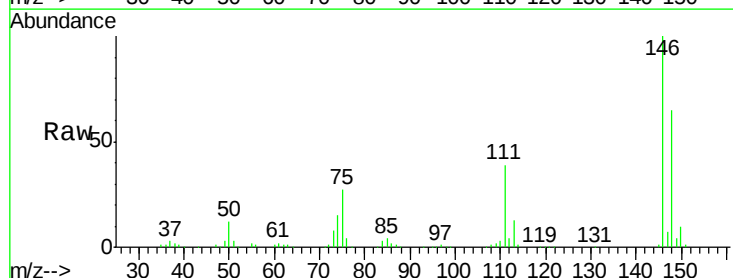
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

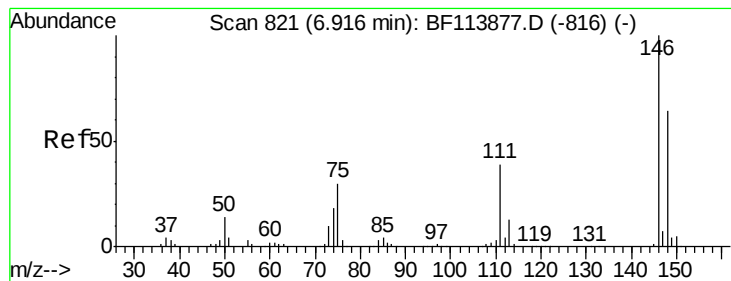
Tgt Ion: 93 Resp: 233238  
Ion Ratio Lower Upper  
93 100  
63 65.8 50.7 90.7  
95 31.8 12.3 52.3



#12  
1,3-Dichlorobenzene  
Concen: 38.271 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.00 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion: 146 Resp: 270330  
Ion Ratio Lower Upper  
146 100  
148 65.3 51.0 76.6  
75 26.6 23.8 35.8

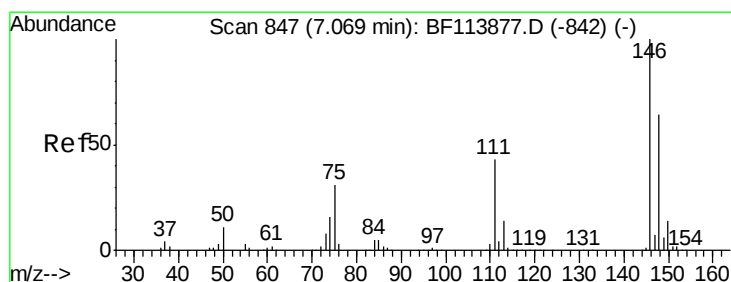
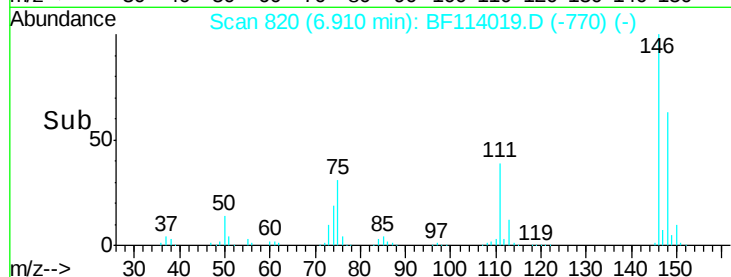
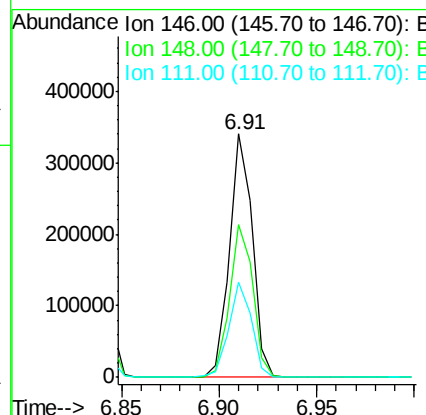
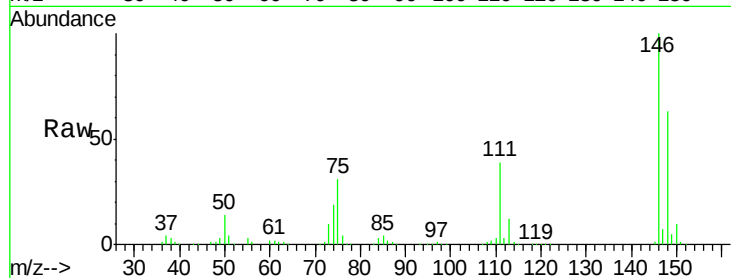




#13  
 1,4-Dichlorobenzene  
 Concen: 38.974 ng  
 RT: 6.91 min Scan# 820  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

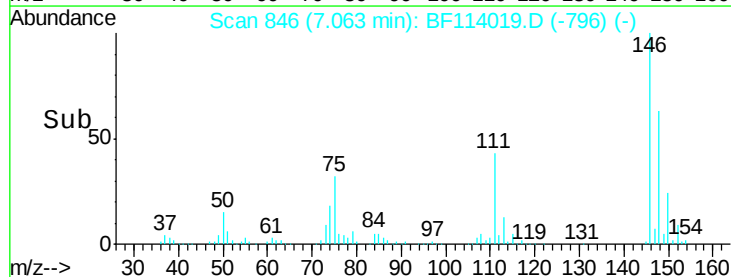
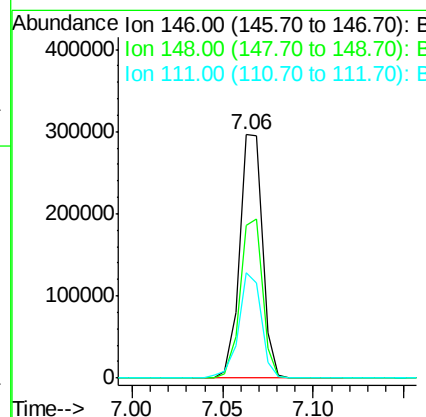
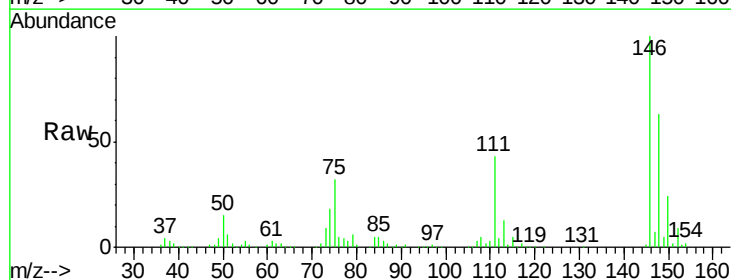
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

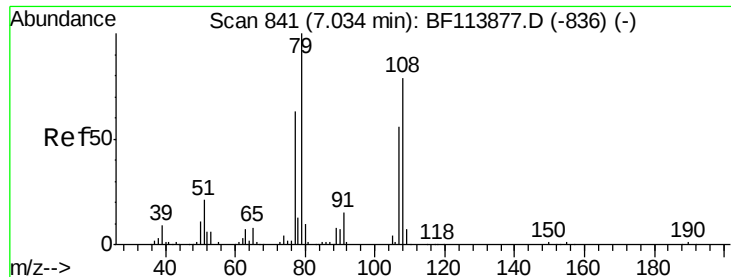
Tgt Ion:146 Resp: 276894  
 Ion Ratio Lower Upper  
 146 100  
 148 63.0 51.8 77.8  
 111 39.3 30.9 46.3



#14  
 1,2-Dichlorobenzene  
 Concen: 40.000 ng  
 RT: 7.06 min Scan# 846  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion:146 Resp: 261172  
 Ion Ratio Lower Upper  
 146 100  
 148 62.8 52.1 78.1  
 111 43.1 34.2 51.4





#15

Benzyl Alcohol

Concen: 43.489 ng

RT: 7.03 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

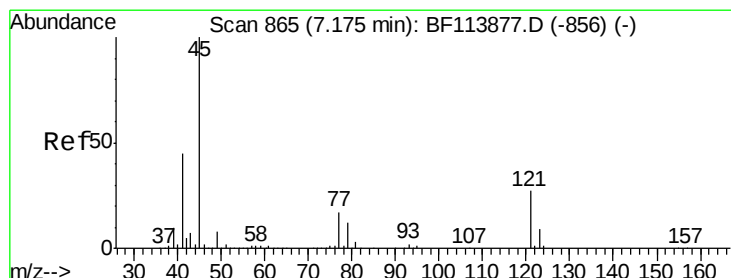
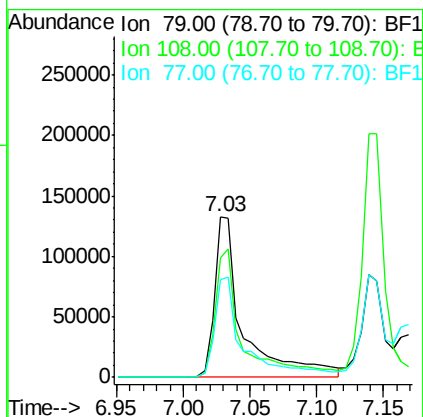
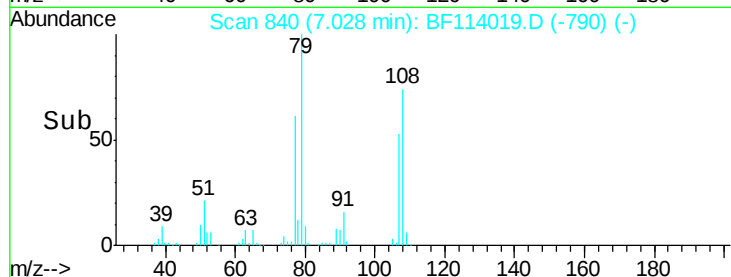
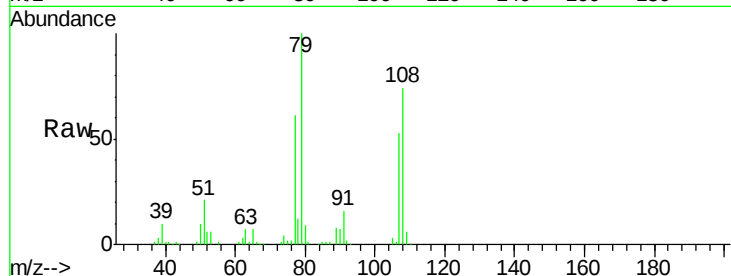
Tgt Ion: 79 Resp: 200741

Ion Ratio Lower Upper

79 100

108 74.4 61.4 92.0

77 60.7 51.6 77.4



#16

2,2'-oxybis(1-chloropropane)

Concen: 36.308 ng

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

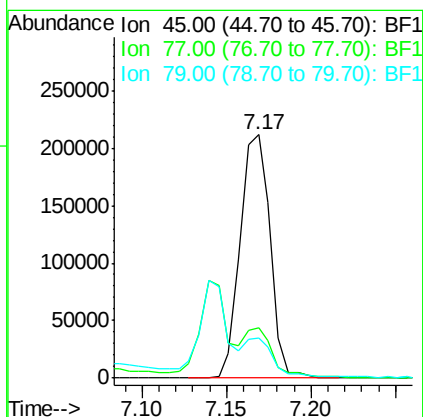
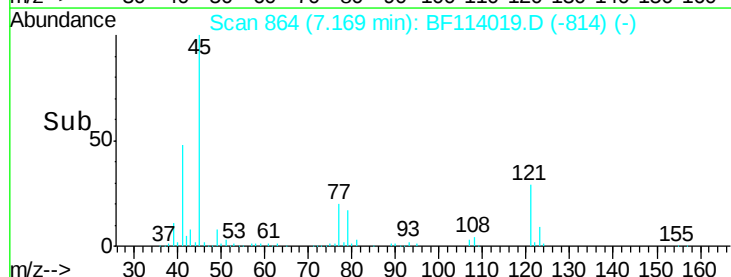
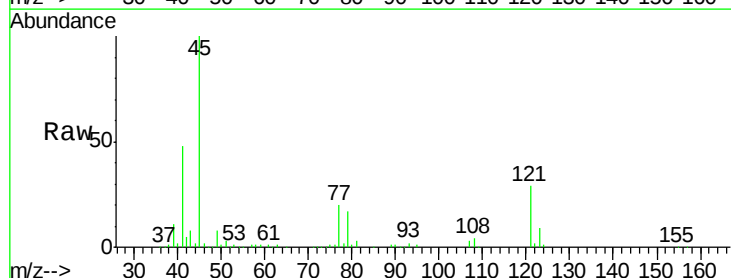
Tgt Ion: 45 Resp: 261387

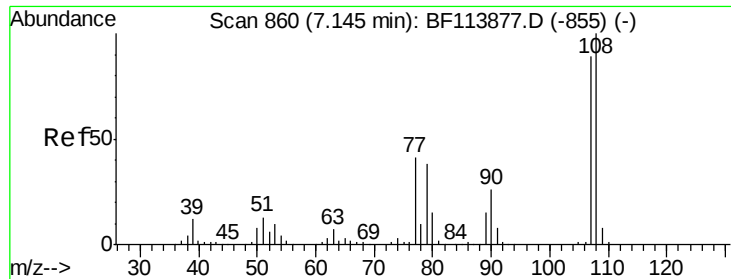
Ion Ratio Lower Upper

45 100

77 20.4 0.0 37.0

79 16.7 0.0 32.7

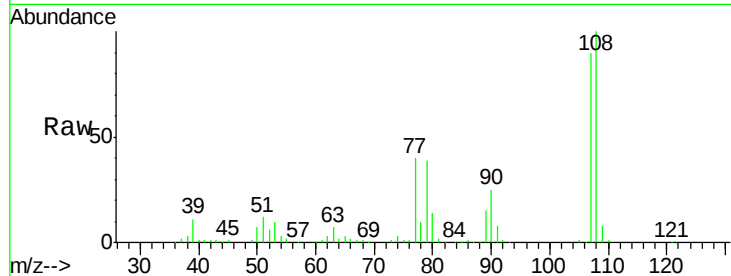




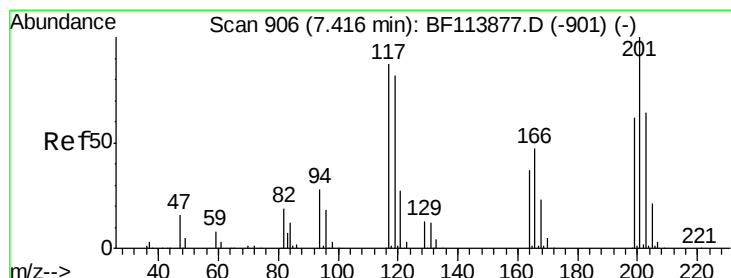
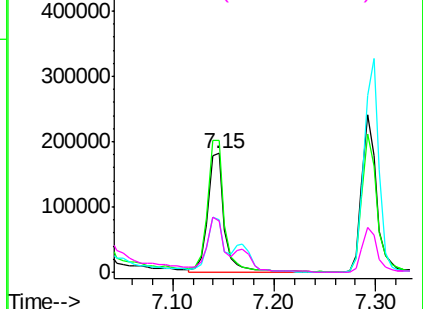
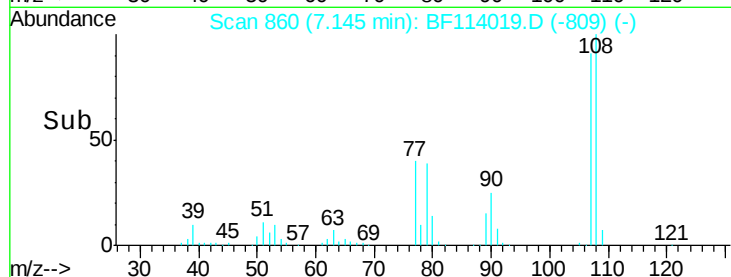
#17  
2-Methylphenol  
Concen: 37.883 ng  
RT: 7.15 min Scan# 860  
Delta R.T. -0.00 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 207107 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 110.6 | 91.5  | 137.3  |
| 77       | 44.0  | 36.2  | 54.4   |
| 79       | 43.5  | 35.4  | 53.0   |

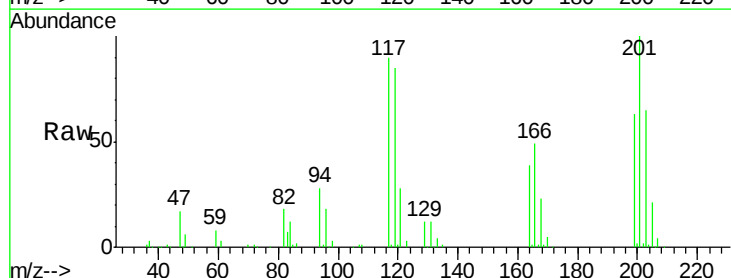


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

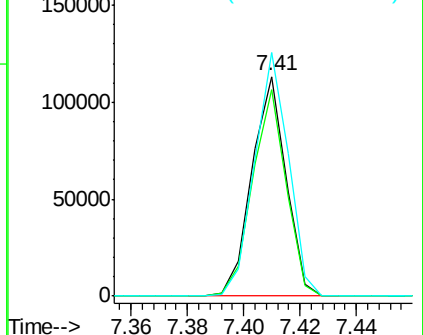
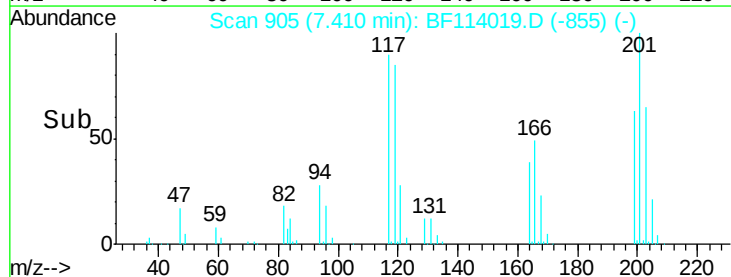


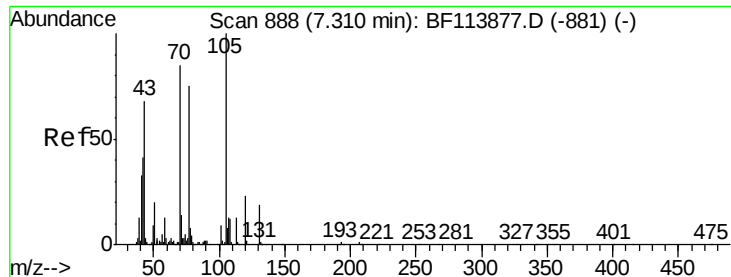
#18  
Hexachloroethane  
Concen: 38.056 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 94779 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 93.7  | 74.4  | 111.6 |
| 201      | 110.8 | 90.2  | 135.2 |



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

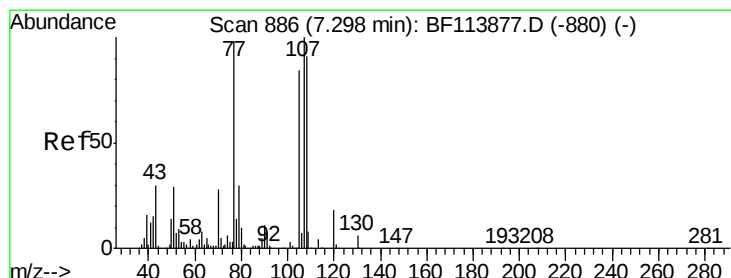
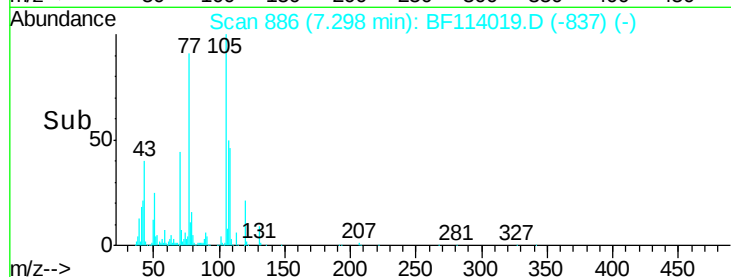
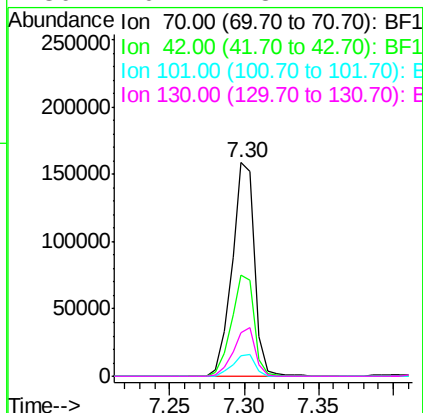
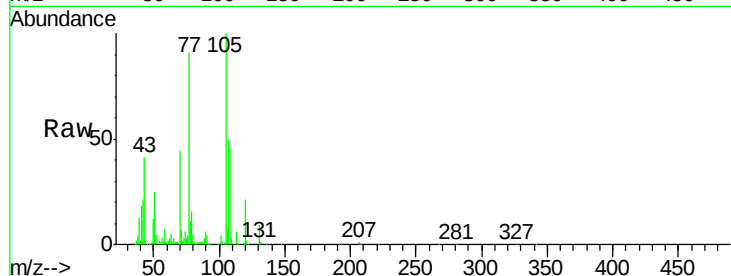




#19  
n-Nitroso-di-n-propylamine  
Concen: 37.880 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

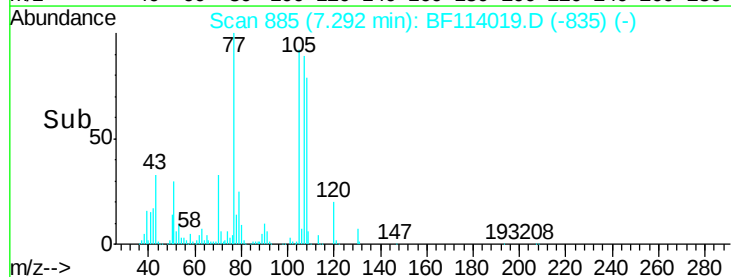
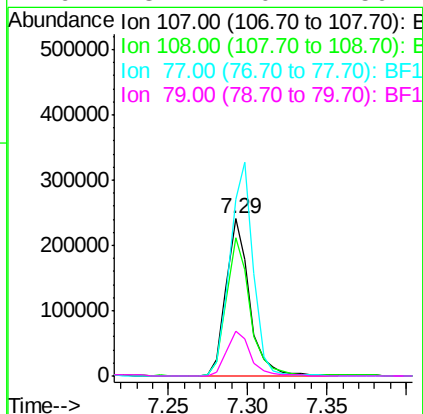
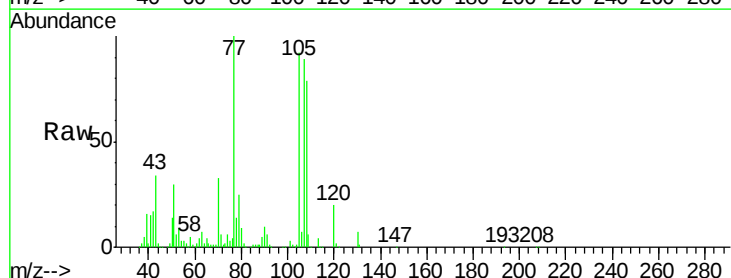
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

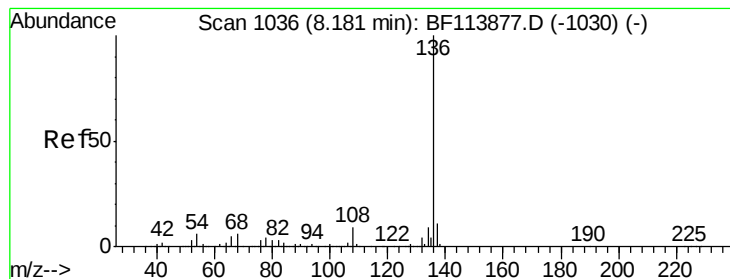
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 168125 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 47.6  | 37.3  | 55.9   |
| 101      | 9.6   | 7.8   | 11.8   |
| 130      | 20.7  | 18.2  | 27.2   |



#20  
3+4-Methylphenols  
Concen: 39.821 ng  
RT: 7.29 min Scan# 885  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 245963 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 88.3  | 70.1  | 110.1  |
| 77       | 112.2 | 52.9  | 92.9   |
| 79       | 28.2  | 10.2  | 50.2   |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1035

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

Tgt Ion:136 Resp: 355725

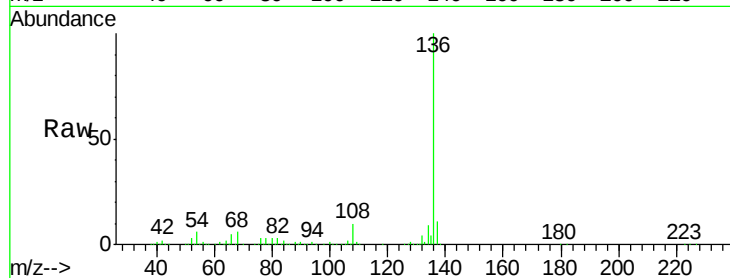
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 6.3 5.0 7.6

68 5.8 4.9 7.3

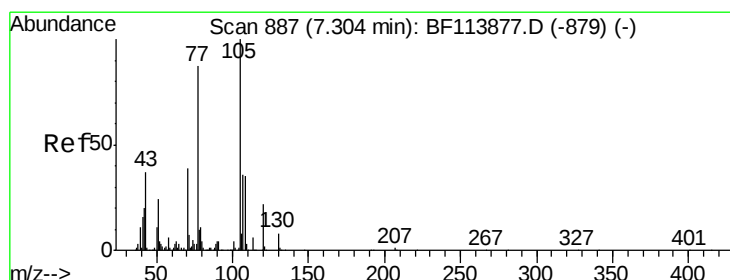
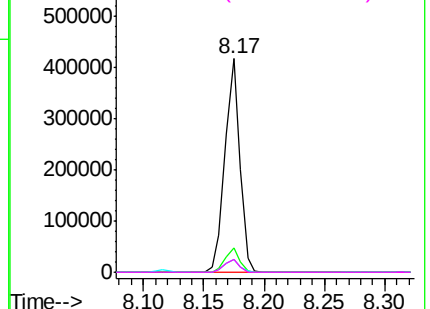
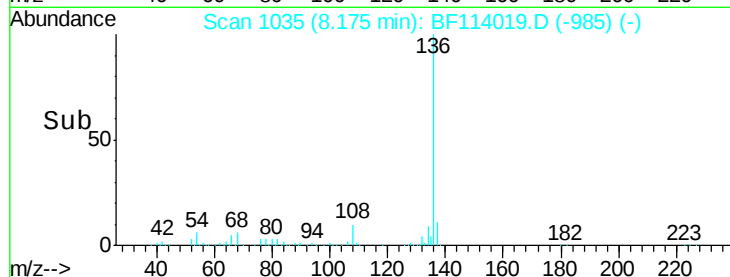


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 42.336 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Tgt Ion:105 Resp: 335136

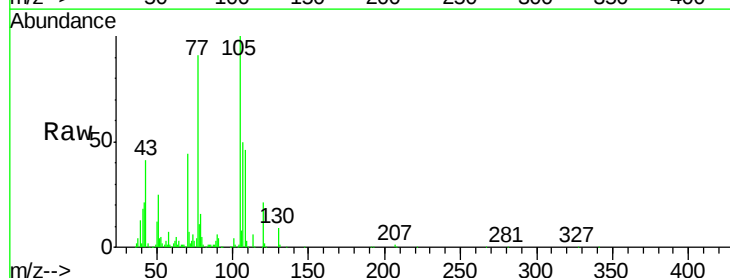
Ion Ratio Lower Upper

105 100

71 7.2 6.1 9.1

51 25.1 16.8 25.2

120 21.3 17.6 26.4

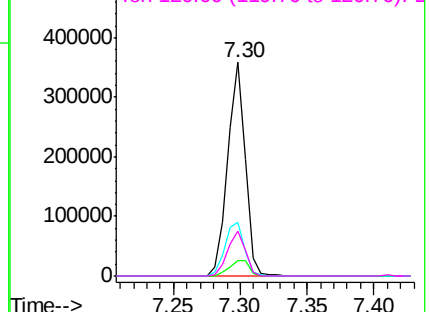
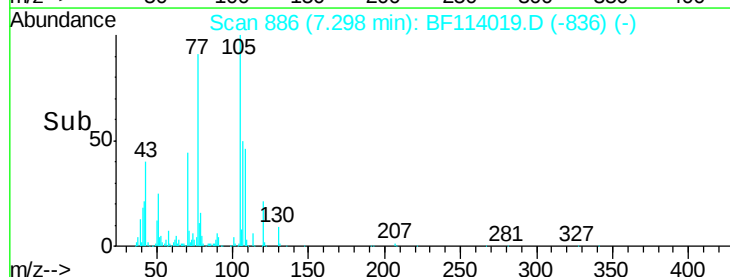


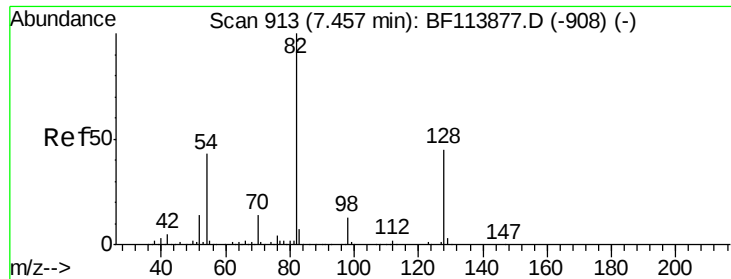
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

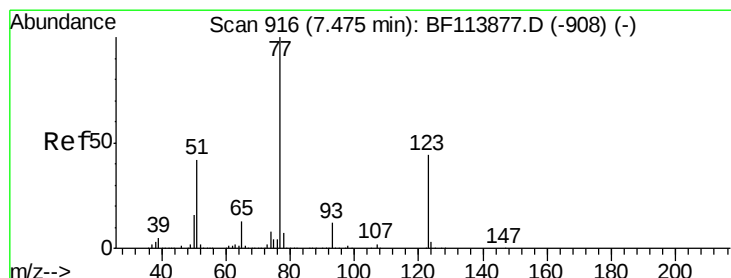
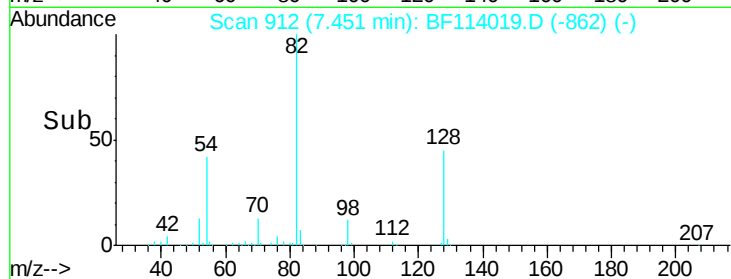
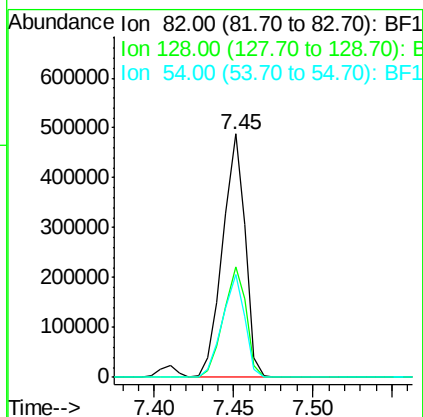
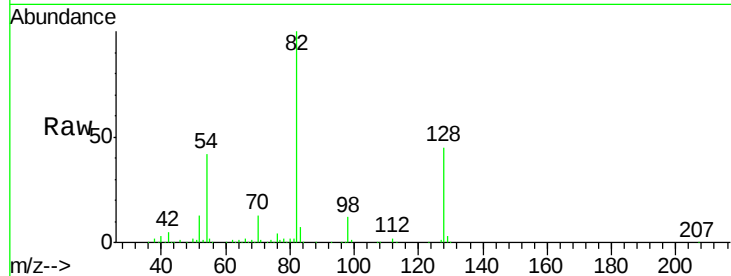




#23  
 Nitrobenzene-d5  
 Concen: 83.353 ng  
 RT: 7.45 min Scan# 912  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

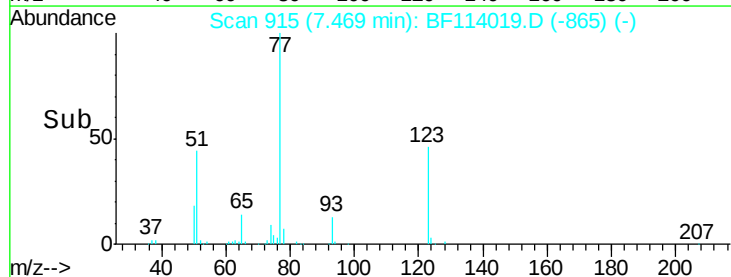
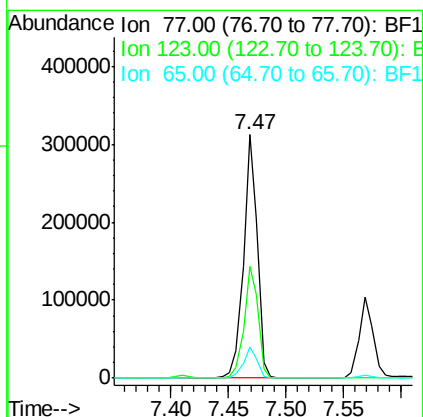
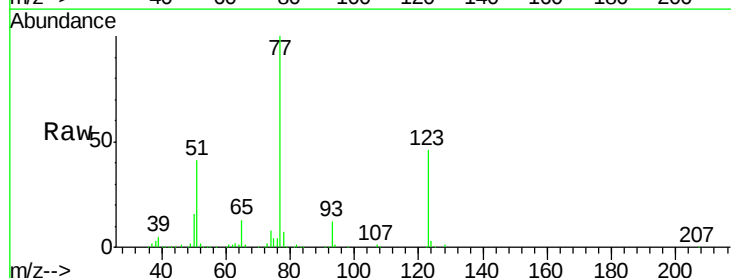
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

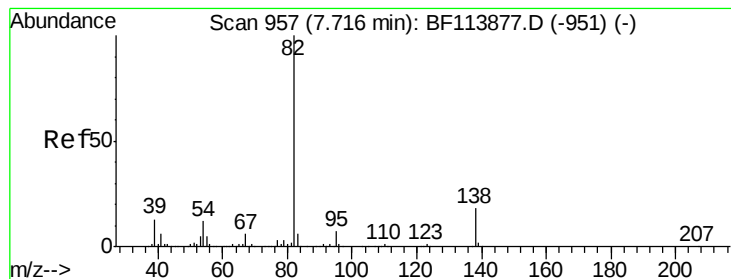
Tgt Ion: 82 Resp: 480223  
 Ion Ratio Lower Upper  
 82 100  
 128 45.4 36.8 55.2  
 54 42.5 33.8 50.6



#24  
 Nitrobenzene  
 Concen: 40.666 ng  
 RT: 7.47 min Scan# 915  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion: 77 Resp: 258879  
 Ion Ratio Lower Upper  
 77 100  
 123 46.0 36.3 54.5  
 65 12.8 10.3 15.5





#25

Isophorone

Concen: 39.368 ng

RT: 7.71 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

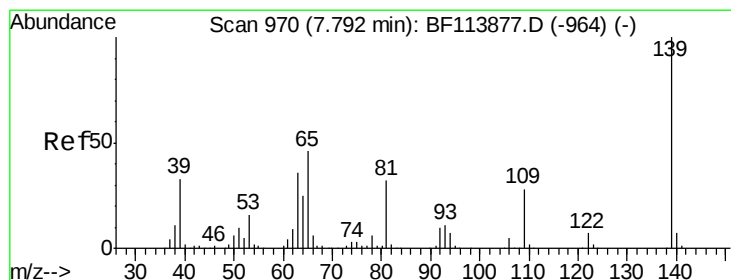
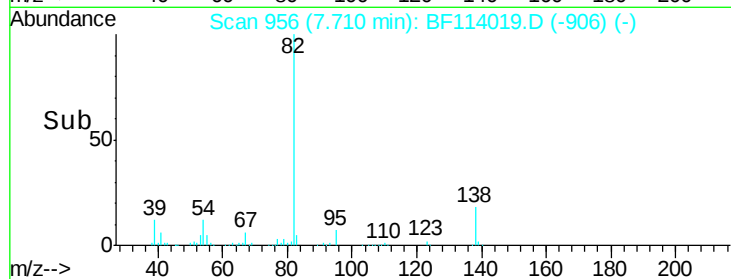
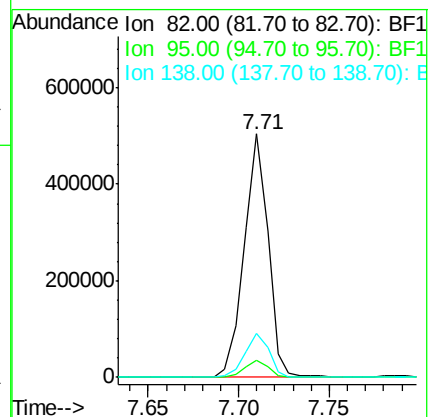
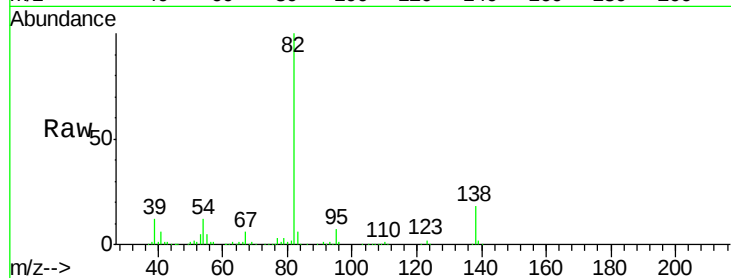
Tgt Ion: 82 Resp: 464096

Ion Ratio Lower Upper

82 100

95 6.9 5.4 8.2

138 18.0 14.6 22.0



#26

2-Nitrophenol

Concen: 43.439 ng

RT: 7.79 min Scan# 969

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

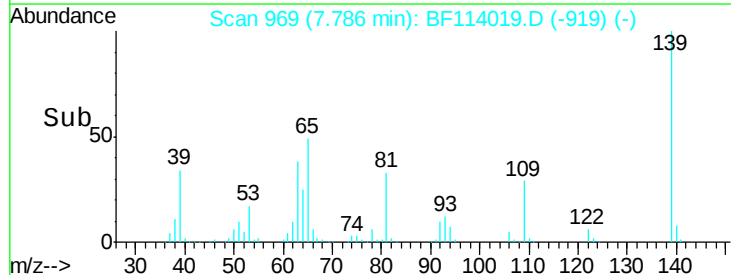
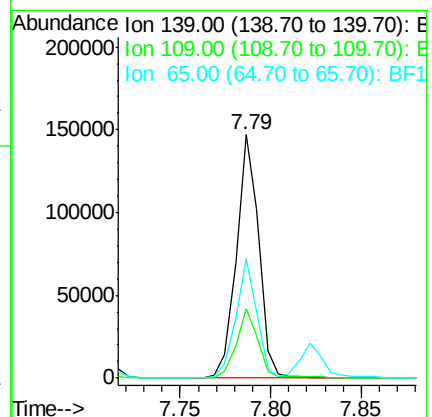
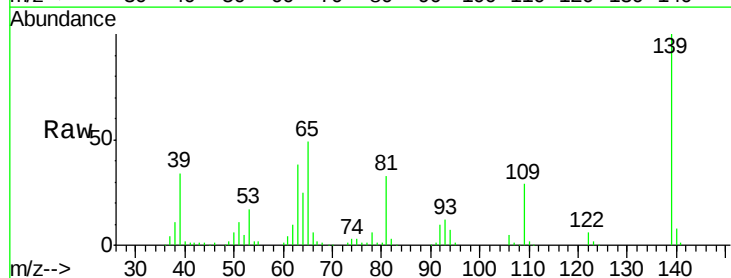
Tgt Ion: 139 Resp: 126155

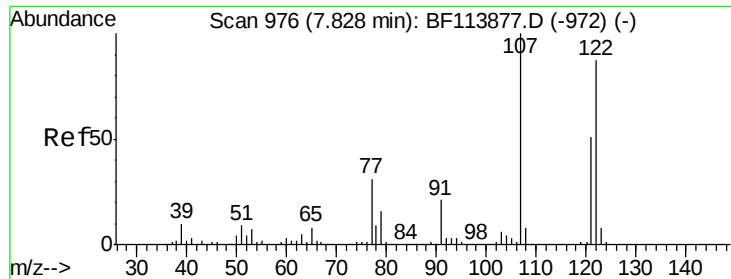
Ion Ratio Lower Upper

139 100

109 28.6 20.6 31.0

65 48.9 34.6 52.0





#27

2,4-Dimethylphenol

Concen: 43.948 ng

RT: 7.82 min Scan# 975

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

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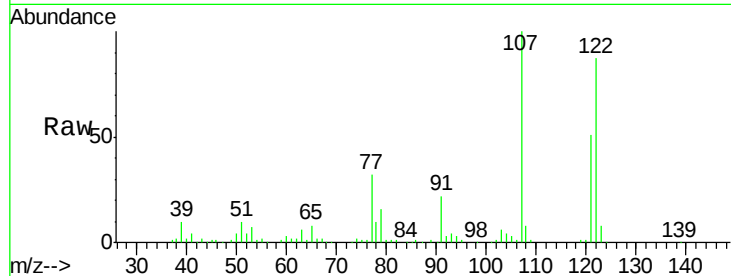
Tgt Ion:122 Resp: 207948

Ion Ratio Lower Upper

122 100

107 114.7 91.2 136.8

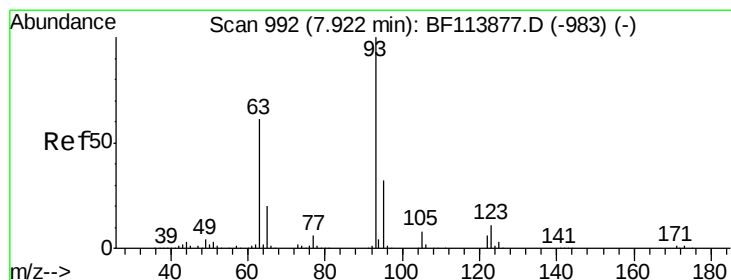
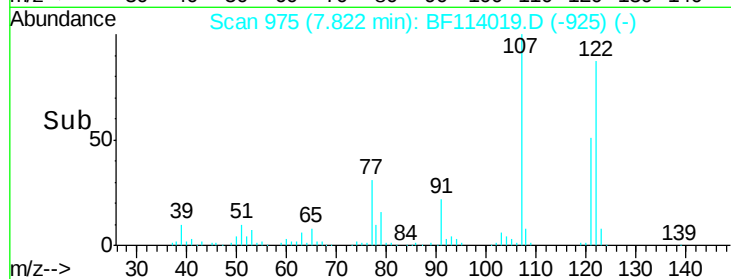
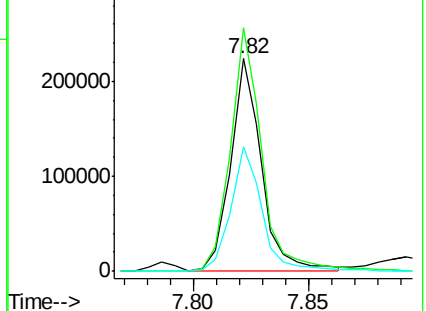
121 58.4 46.4 69.6



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28

bis(2-Chloroethoxy)methane

Concen: 39.675 ng

RT: 7.92 min Scan# 991

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

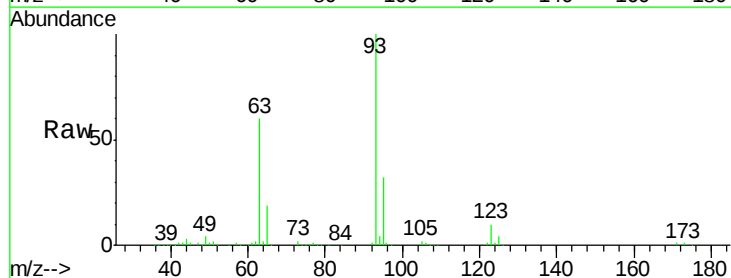
Tgt Ion: 93 Resp: 298036

Ion Ratio Lower Upper

93 100

95 32.0 25.8 38.6

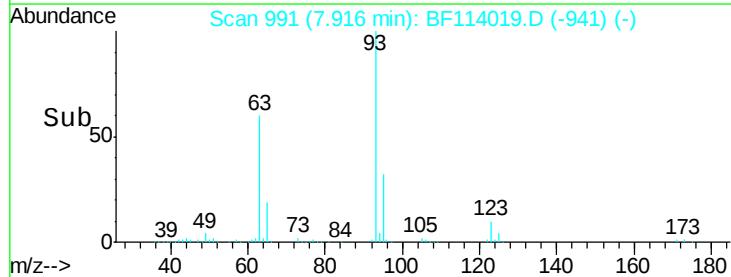
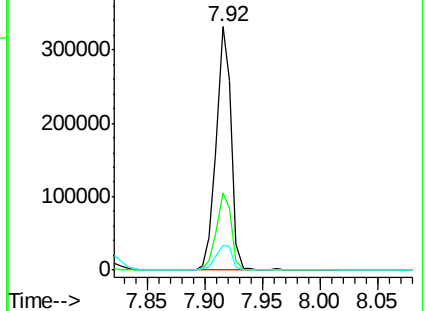
123 10.3 9.0 13.6

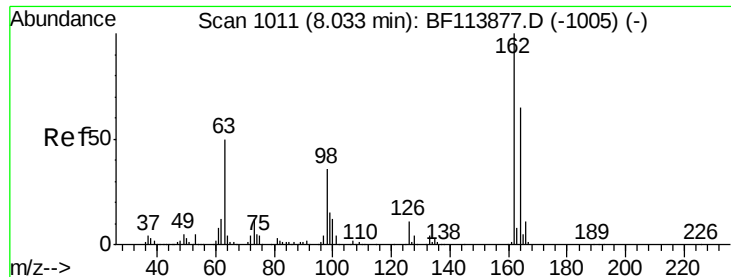


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 123.00 (122.70 to 123.70): E

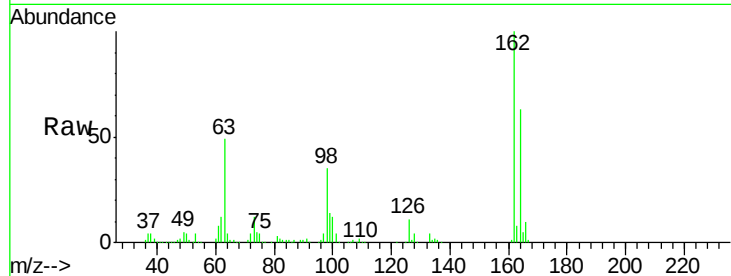




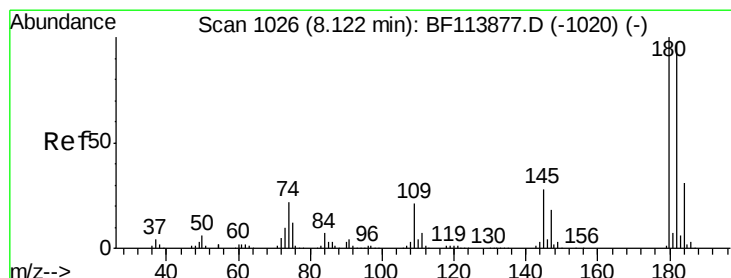
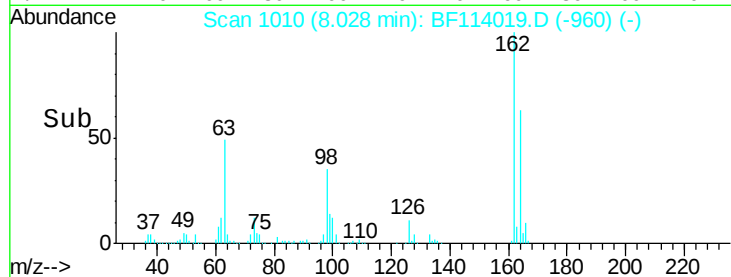
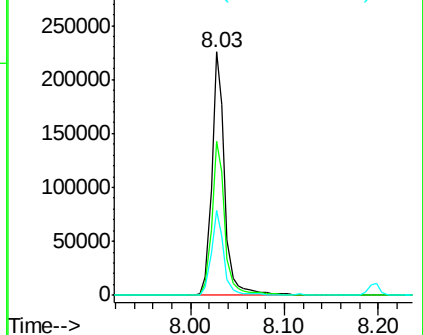
#29  
2,4-Dichlorophenol  
Concen: 40.834 ng  
RT: 8.03 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

Tgt Ion:162 Resp: 220945  
Ion Ratio Lower Upper  
162 100  
164 63.1 43.7 83.7  
98 35.0 15.5 55.5

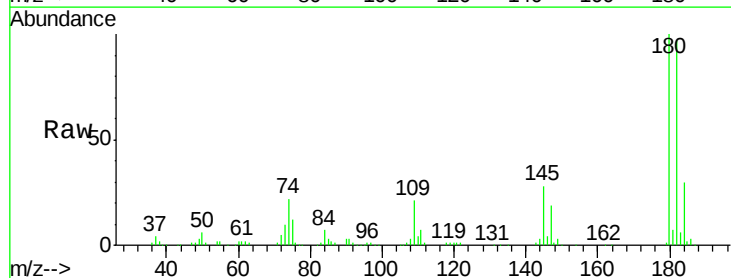


Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): BF1

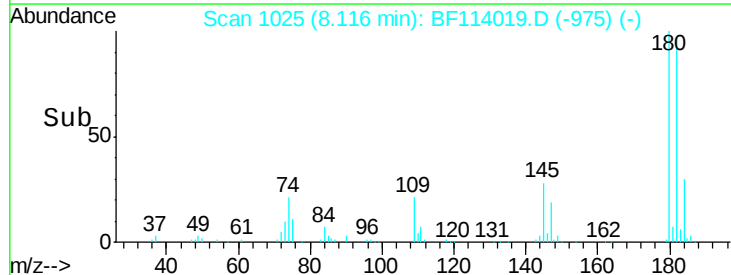
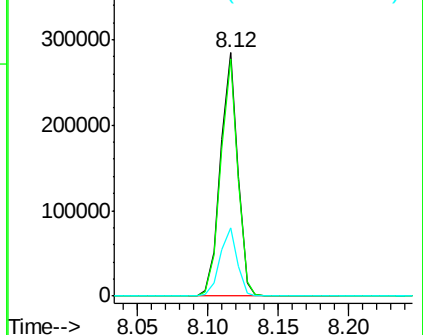


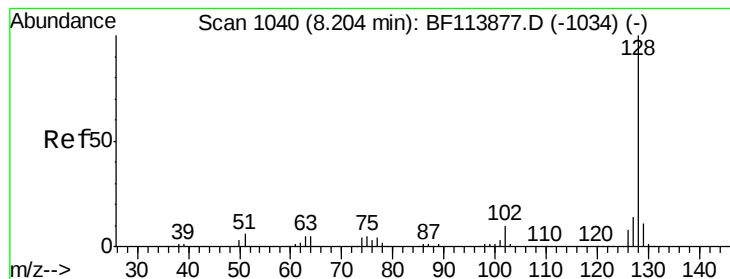
#30  
1,2,4-Trichlorobenzene  
Concen: 40.358 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion:180 Resp: 243488  
Ion Ratio Lower Upper  
180 100  
182 97.3 75.4 113.0  
145 28.0 23.0 34.4



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: 41.531 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

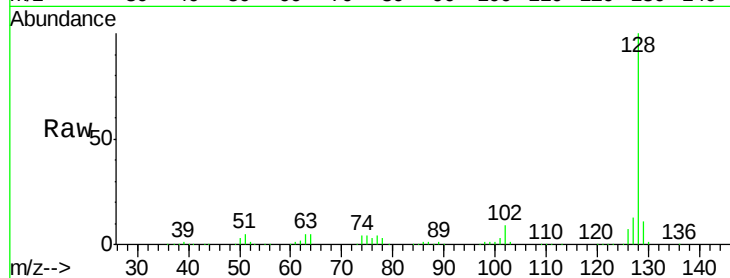
Tgt Ion:128 Resp: 701834

Ion Ratio Lower Upper

128 100

129 11.0 9.4 14.0

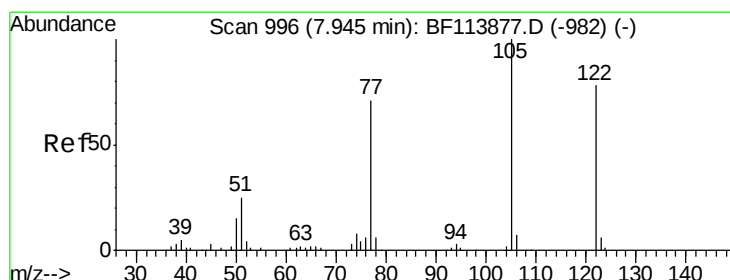
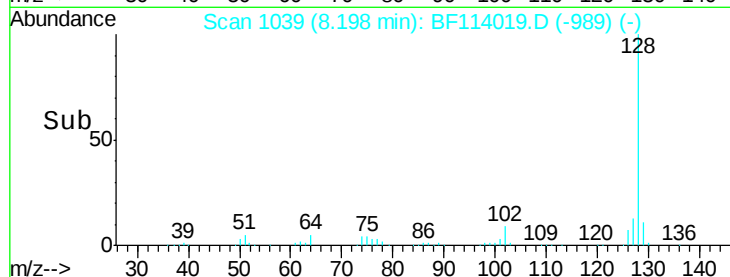
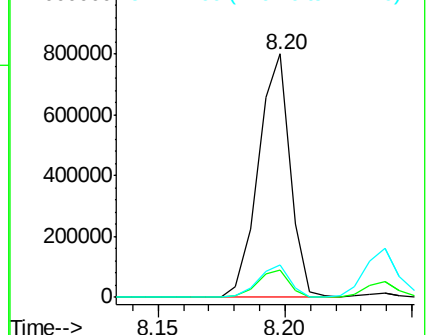
127 13.1 10.8 16.2



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: 10.278 ng

RT: 7.89 min Scan# 987

Delta R.T. -0.05 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

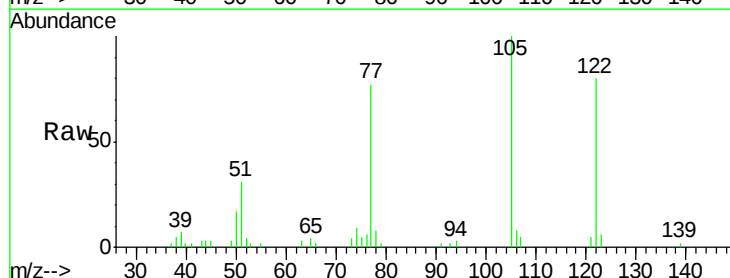
Tgt Ion:122 Resp: 32843

Ion Ratio Lower Upper

122 100

105 125.6 104.3 144.3

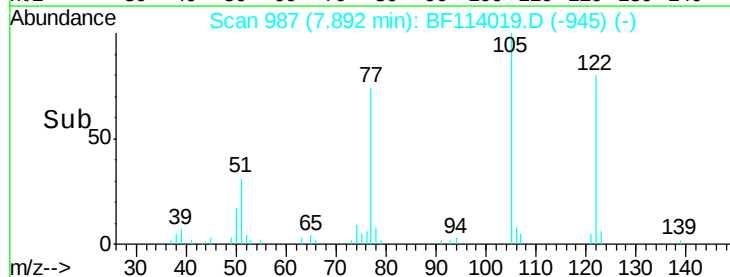
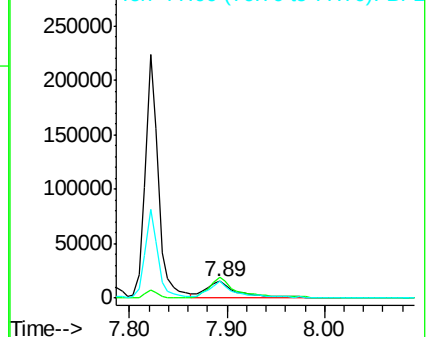
77 97.1 70.4 110.4

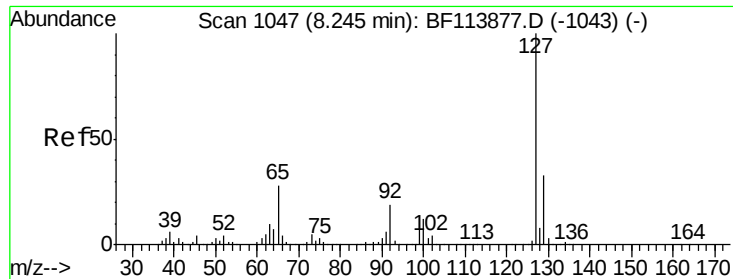


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1

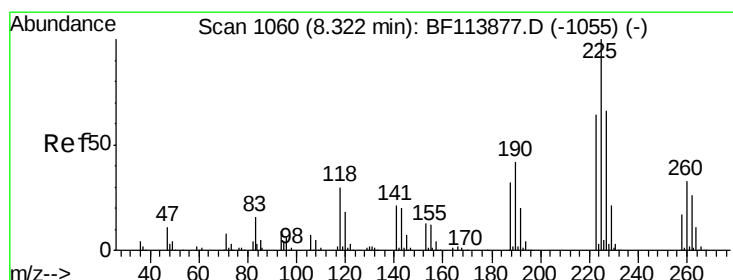
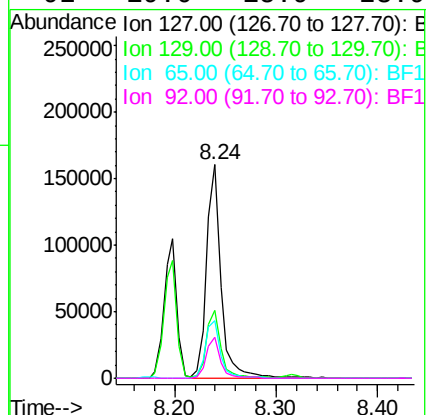
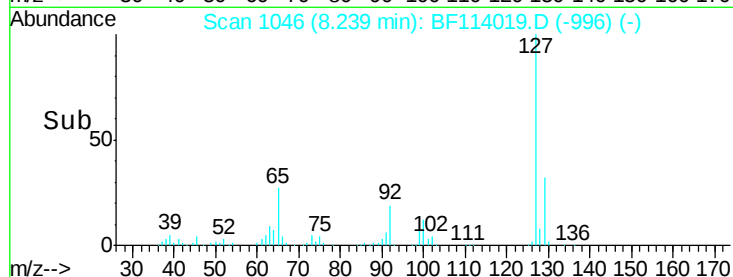
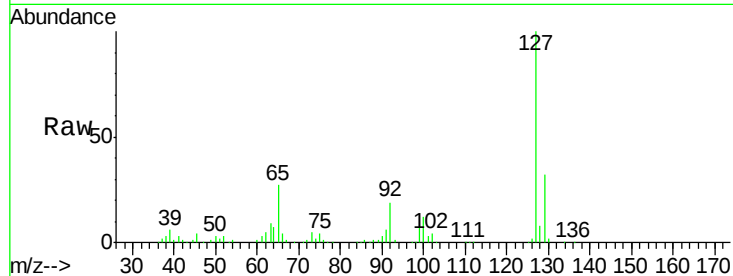




#33  
4-Chloroaniline  
Concen: 22.335 ng  
RT: 8.24 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

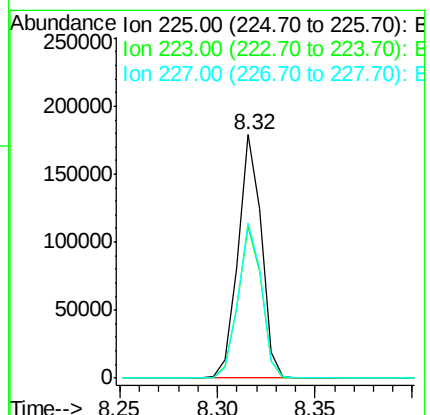
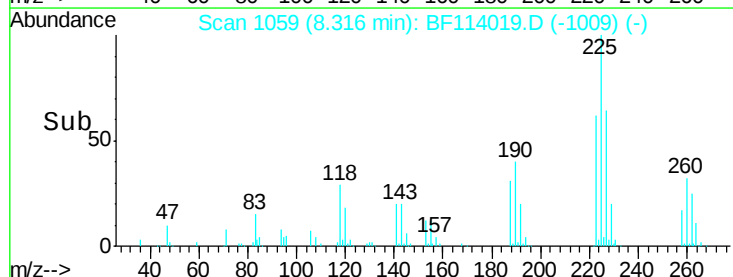
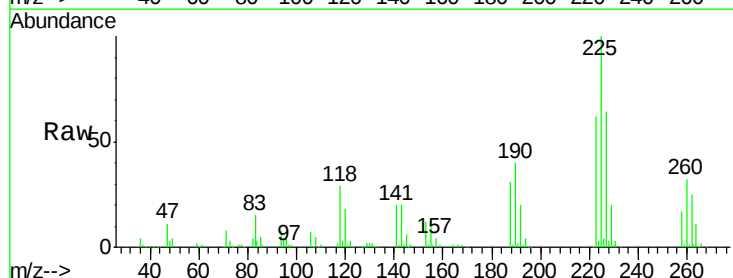
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

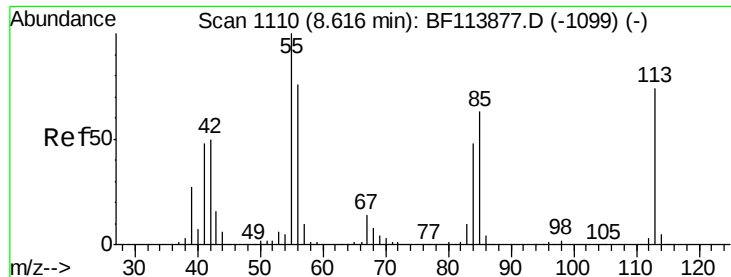
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 159707 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 31.7  | 26.4  | 39.6   |
| 65       | 27.2  | 24.9  | 37.3   |
| 92       | 19.0  | 15.9  | 23.9   |



#34  
Hexachlorobutadiene  
Concen: 39.502 ng  
RT: 8.32 min Scan# 1059  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 148567 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 62.1  | 51.1  | 76.7   |
| 227      | 63.6  | 49.9  | 74.9   |





#35

Caprolactam

Concen: 31.487 ng

RT: 8.59 min Scan# 1105

Delta R.T. -0.03 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

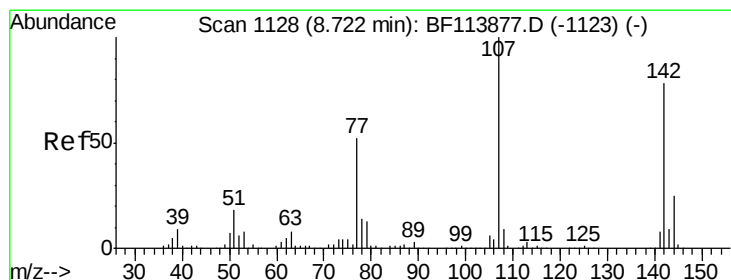
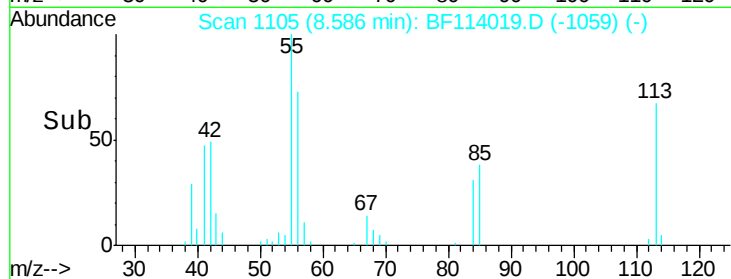
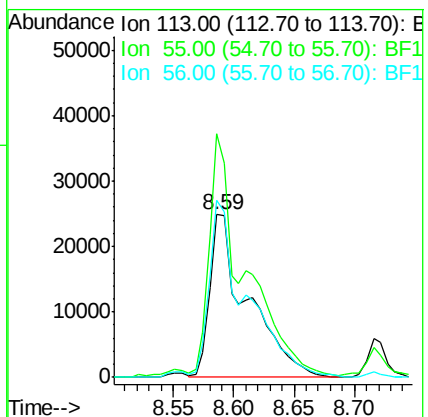
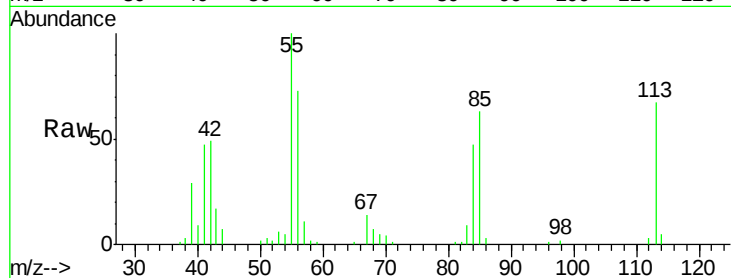
Tgt Ion:113 Resp: 54196

Ion Ratio Lower Upper

113 100

55 149.6 128.6 168.6

56 109.1 91.9 131.9



#36

4-Chloro-3-methylphenol

Concen: 39.919 ng

RT: 8.72 min Scan# 1127

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

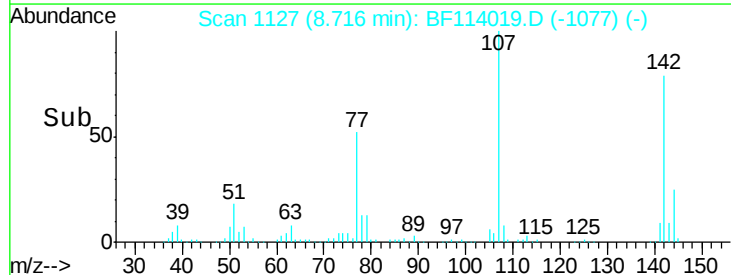
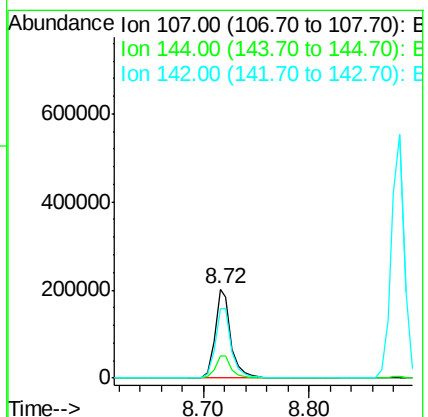
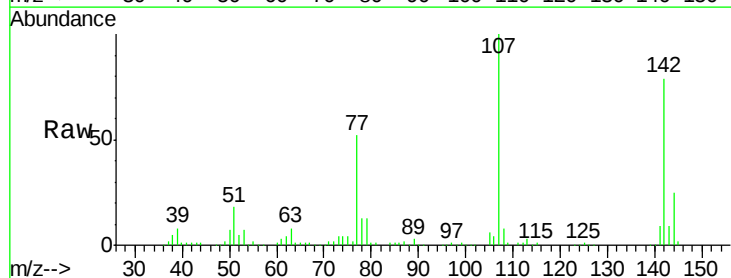
Tgt Ion:107 Resp: 213993

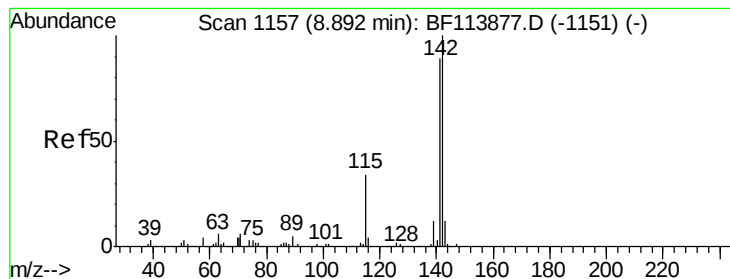
Ion Ratio Lower Upper

107 100

144 25.2 20.5 30.7

142 78.5 64.2 96.4





#37

2-Methylnaphthalene

Concen: 42.122 ng

RT: 8.89 min Scan# 1156

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

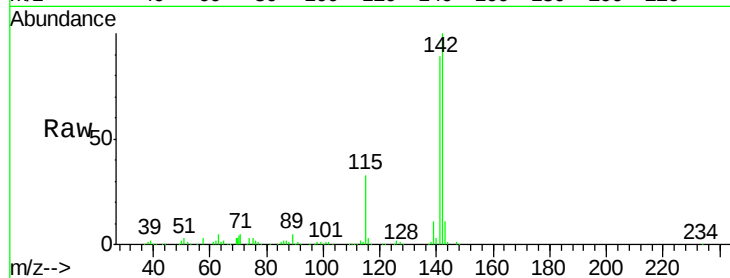
Tgt Ion:142 Resp: 480007

Ion Ratio Lower Upper

142 100

141 89.2 70.4 105.6

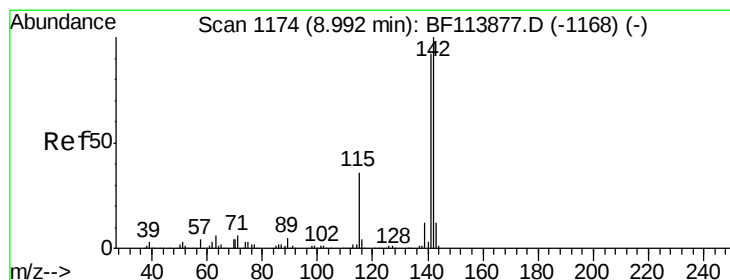
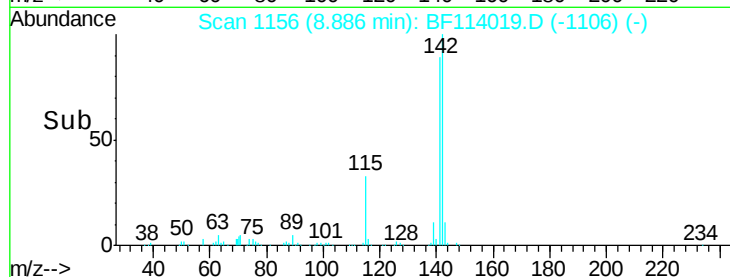
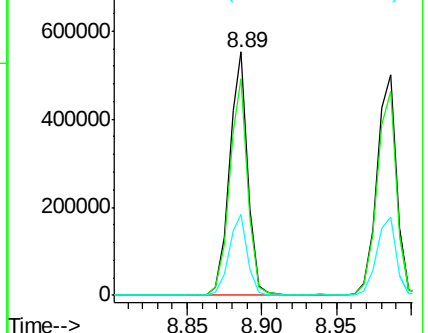
115 33.2 26.3 39.5



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

1-Methylnaphthalene

Concen: 40.710 ng

RT: 8.99 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

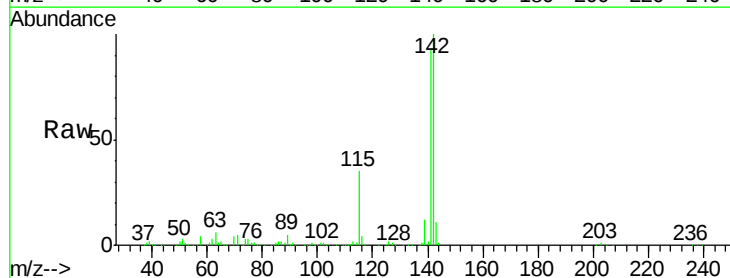
Tgt Ion:142 Resp: 447755

Ion Ratio Lower Upper

142 100

141 92.6 72.3 108.5

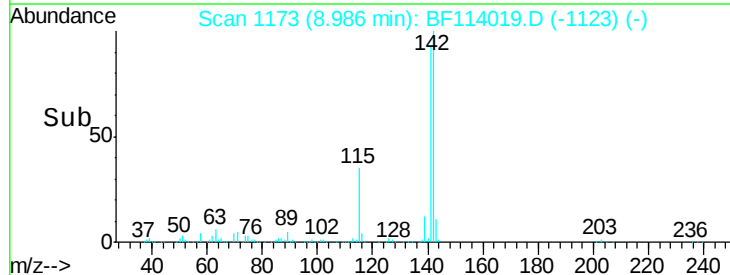
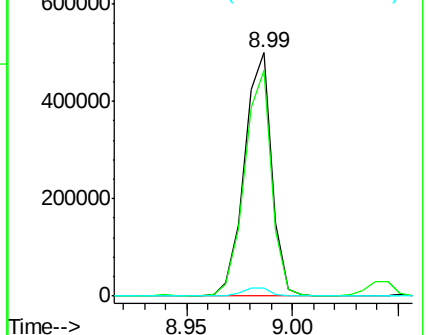
116 3.5 3.0 4.4

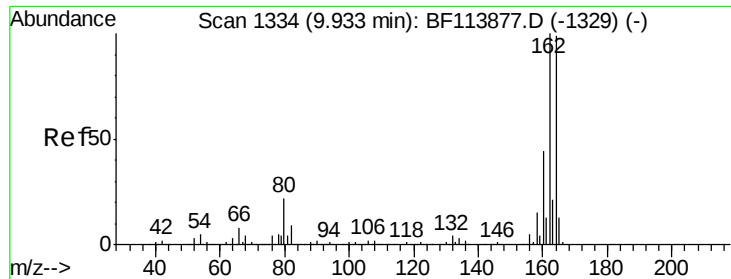


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

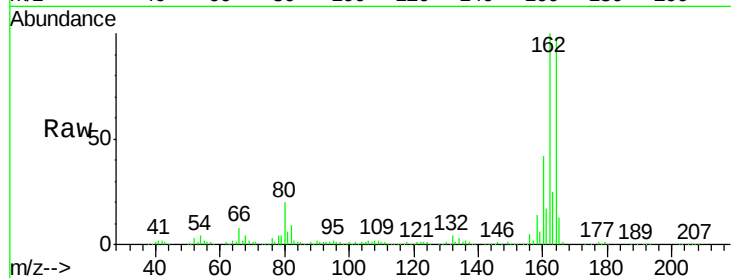




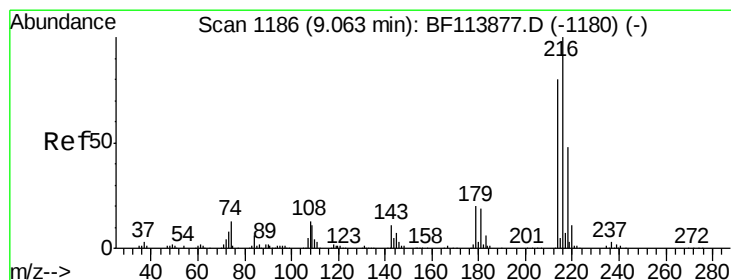
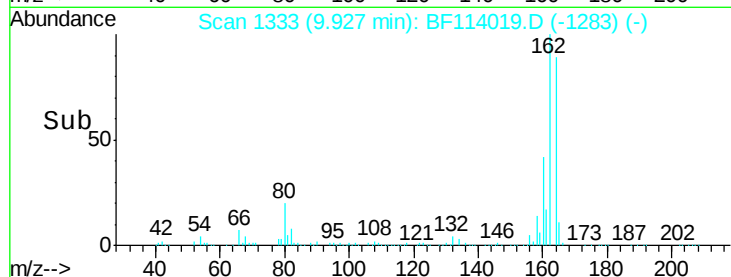
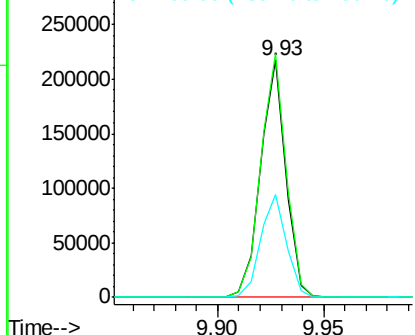
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.8 | 81.1  | 121.7 |
| 160     | 43.4  | 35.8  | 53.6  |



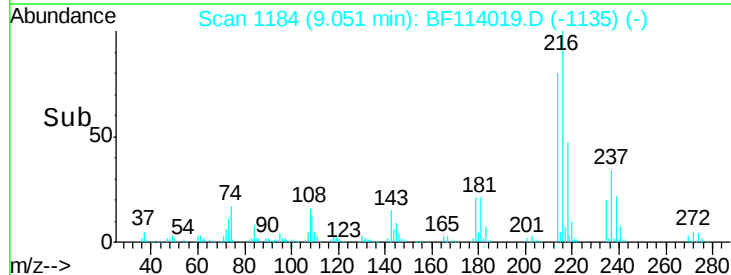
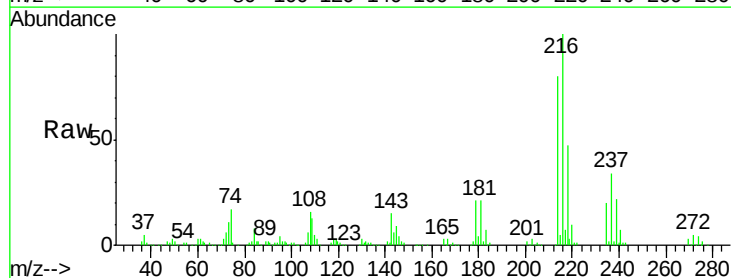
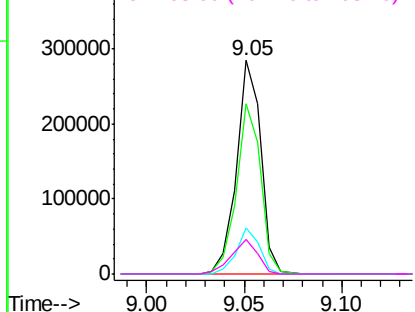
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

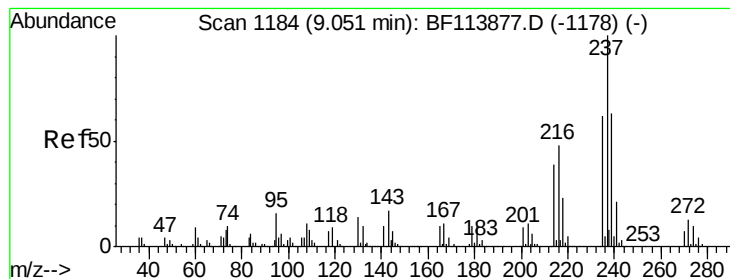


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 41.851 ng  
RT: 9.05 min Scan# 1184  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 79.2  | 63.5  | 95.3  |
| 179     | 20.5  | 16.1  | 24.1  |
| 108     | 17.6  | 13.4  | 20.0  |

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





#41

Hexachlorocyclopentadiene

Concen: 80.827 ng

RT: 9.05 min Scan# 1183

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

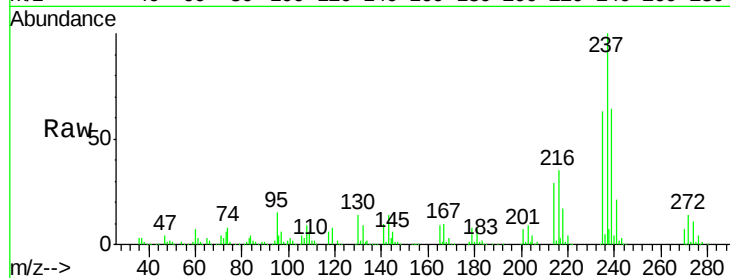
Tgt Ion: 237 Resp: 264254

Ion Ratio Lower Upper

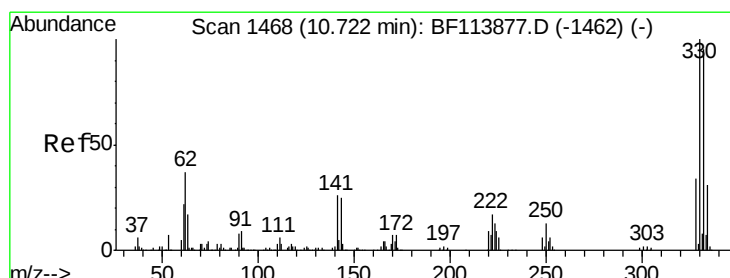
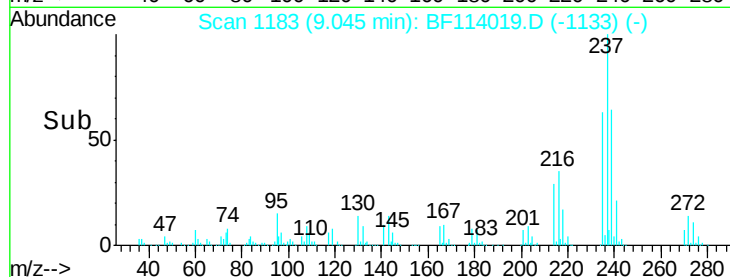
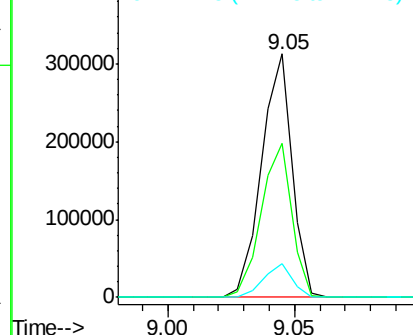
237 100

235 63.2 42.6 82.6

272 13.6 0.0 33.8



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



#42

2,4,6-Tribromophenol

Concen: 105.565 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

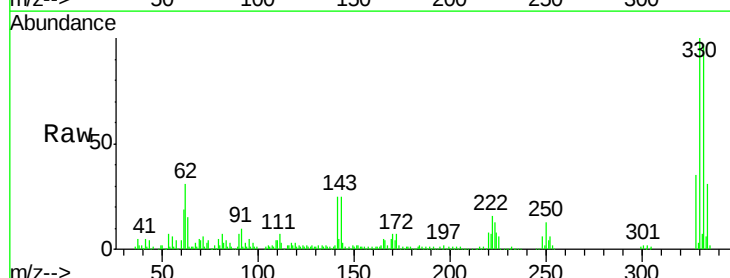
Tgt Ion: 330 Resp: 232109

Ion Ratio Lower Upper

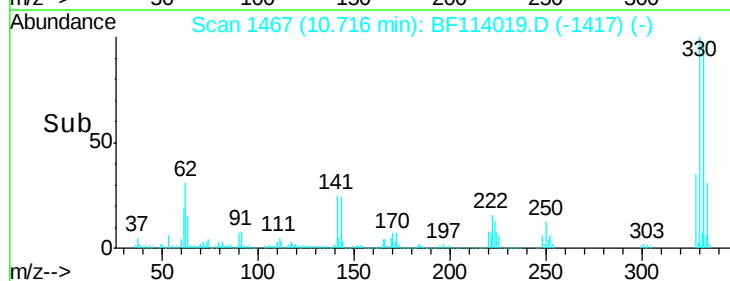
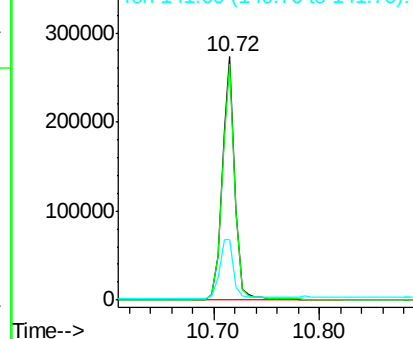
330 100

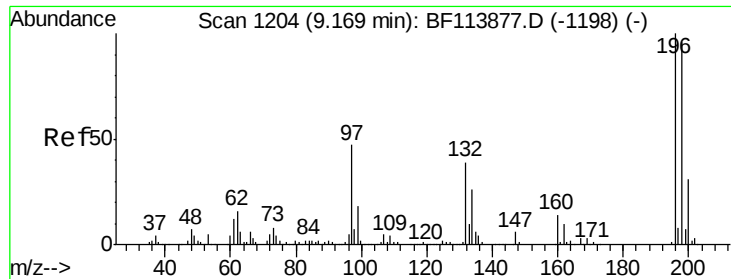
332 97.8 77.5 116.3

141 28.9 22.2 33.2



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

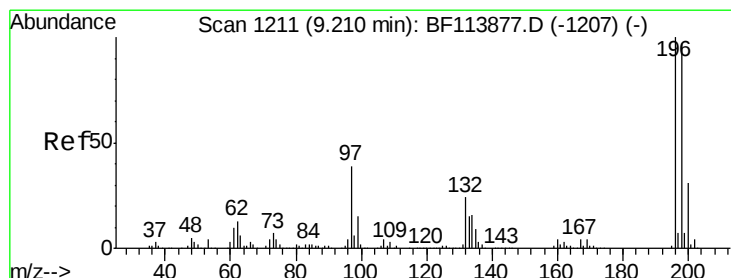
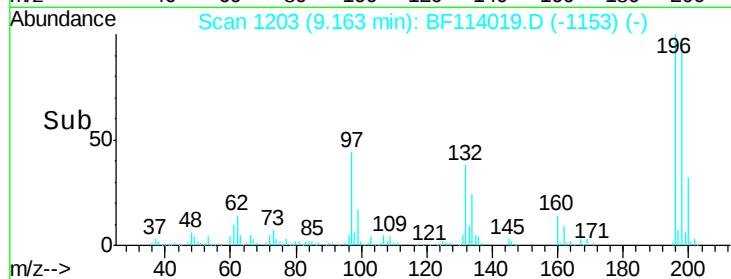
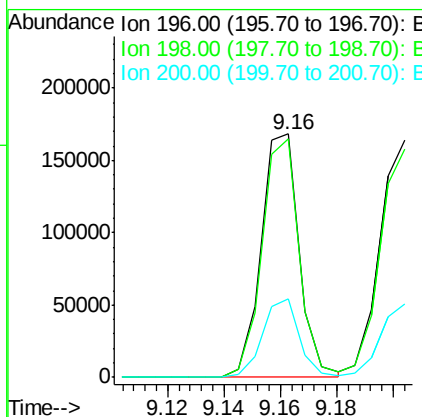
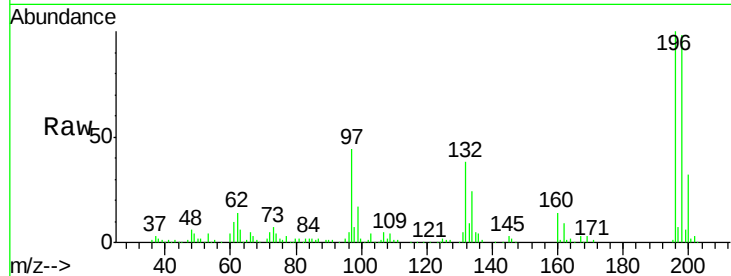




#43  
 2,4,6-Trichlorophenol  
 Concen: 42.165 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

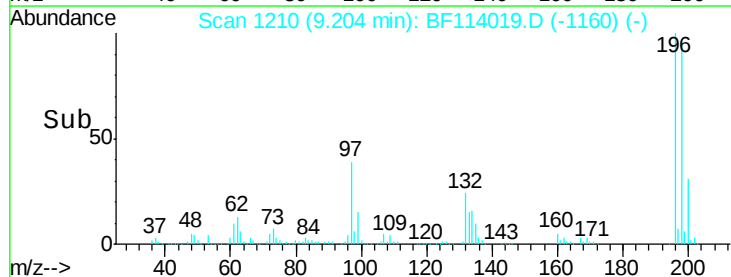
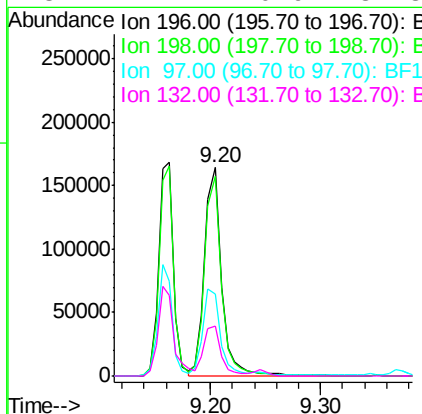
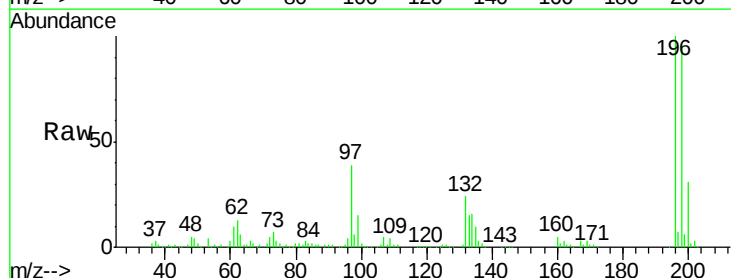
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

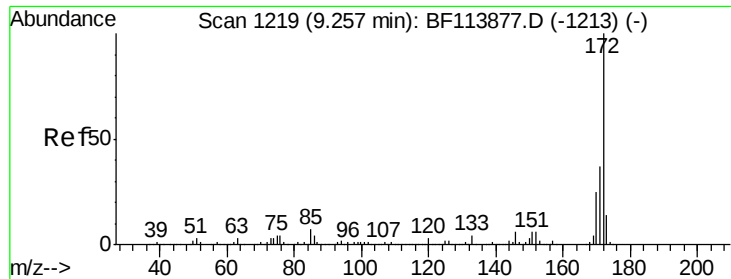
Tgt Ion:196 Resp: 156977  
 Ion Ratio Lower Upper  
 196 100  
 198 98.2 75.6 113.4  
 200 32.0 24.7 37.1



#44  
 2,4,5-Trichlorophenol  
 Concen: 40.974 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion:196 Resp: 171098  
 Ion Ratio Lower Upper  
 196 100  
 198 95.9 76.2 114.4  
 97 39.4 35.8 53.8  
 132 24.1 20.9 31.3

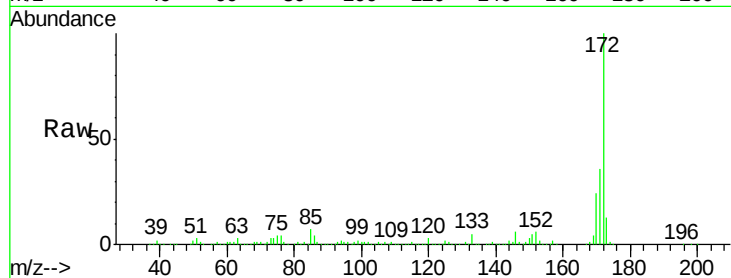




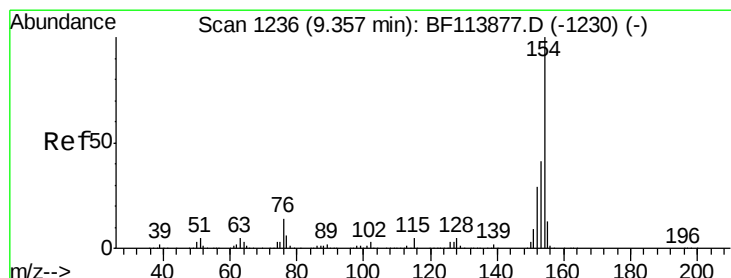
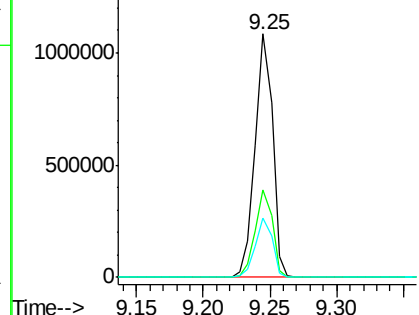
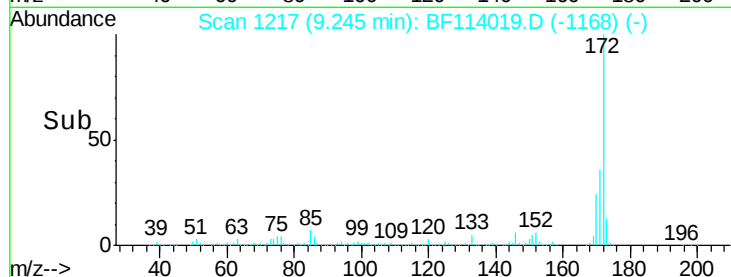
#45  
2-Fluorobiphenyl  
Concen: 84.035 ng  
RT: 9.25 min Scan# 1217  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.4  | 44.0  |
| 170     | 24.4  | 19.9  | 29.9  |

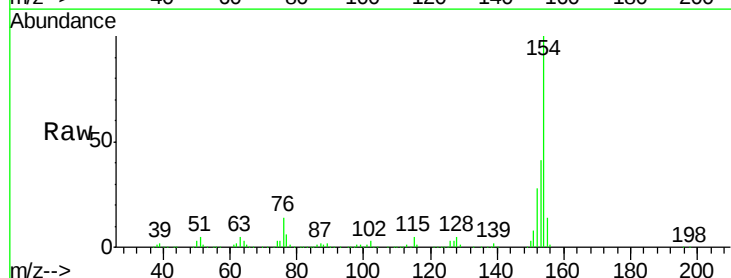


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

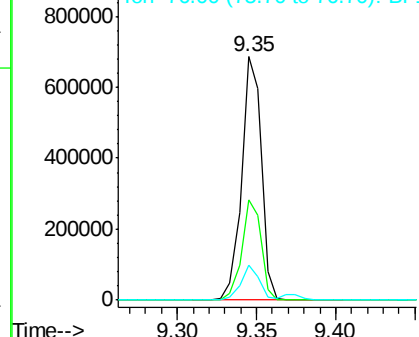
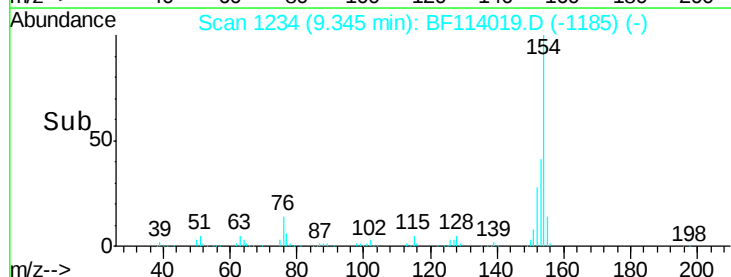


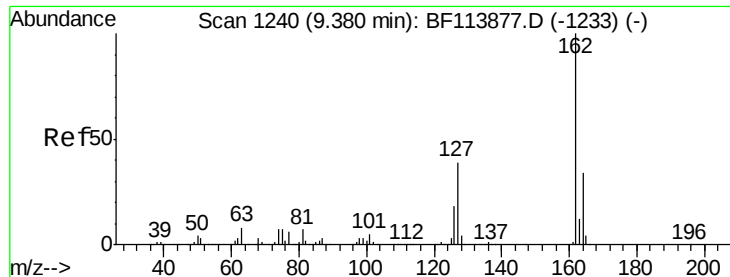
#46  
1,1'-Biphenyl  
Concen: 42.857 ng  
RT: 9.35 min Scan# 1234  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.3  | 20.8  | 60.8  |
| 76      | 14.1  | 0.0   | 35.2  |



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

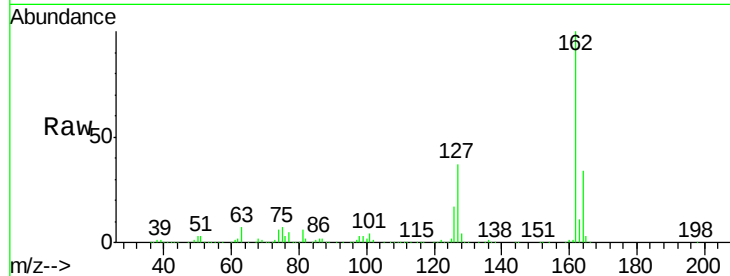




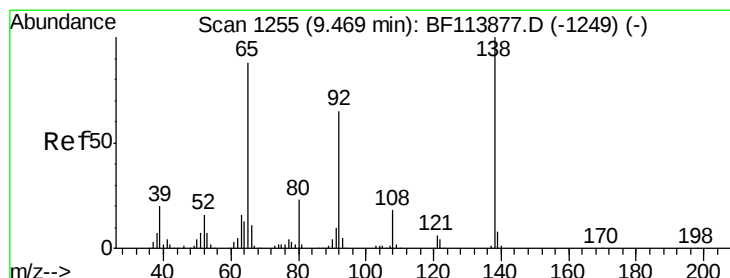
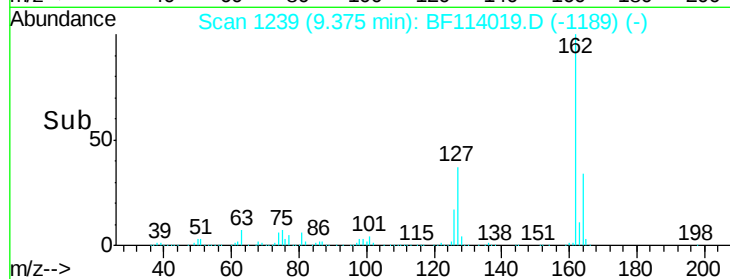
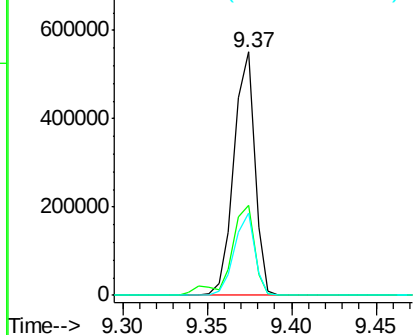
#47  
 2-Chloronaphthalene  
 Concen: 42.097 ng  
 RT: 9.37 min Scan# 1239  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 36.9  | 29.3  | 43.9  |
| 164     | 33.7  | 27.1  | 40.7  |

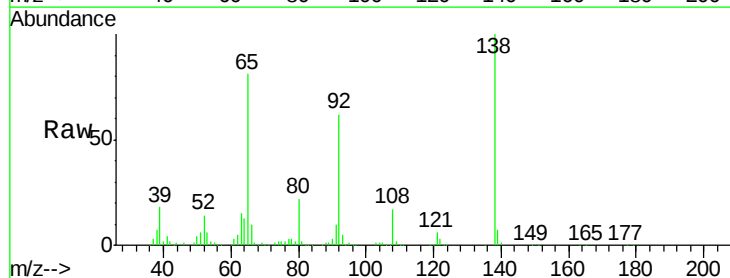


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E

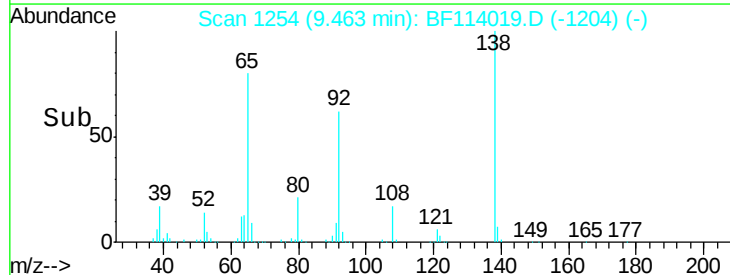
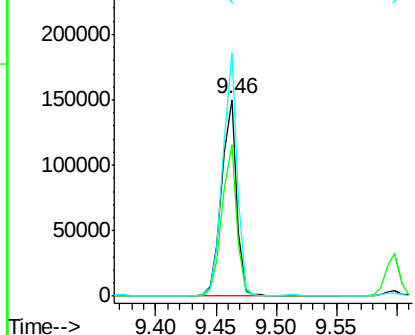


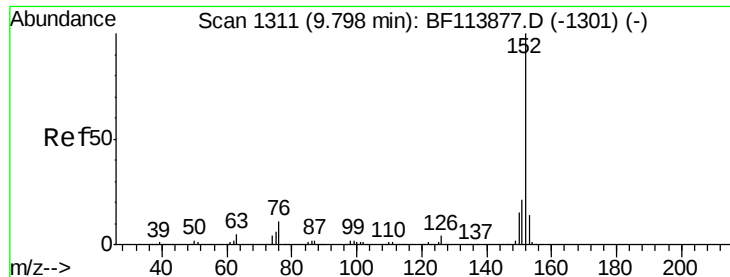
#48  
 2-Nitroaniline  
 Concen: 43.796 ng  
 RT: 9.46 min Scan# 1254  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 77.4  | 57.4  | 86.0  |
| 138     | 124.0 | 85.4  | 128.0 |



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

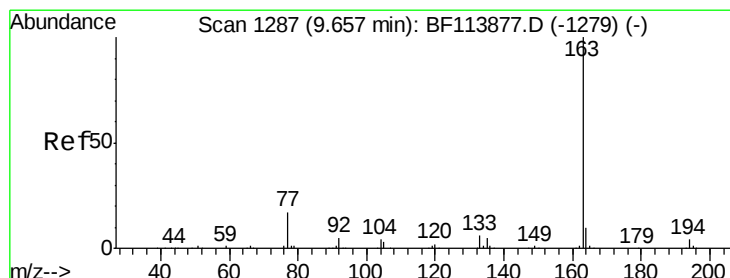
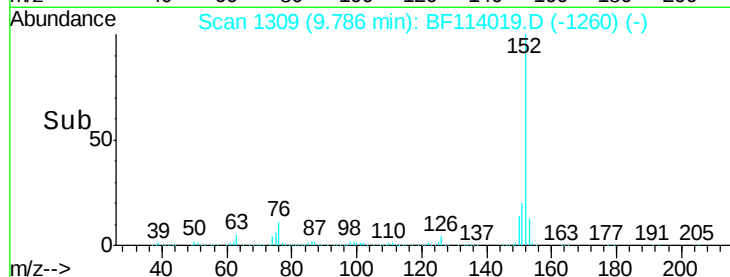
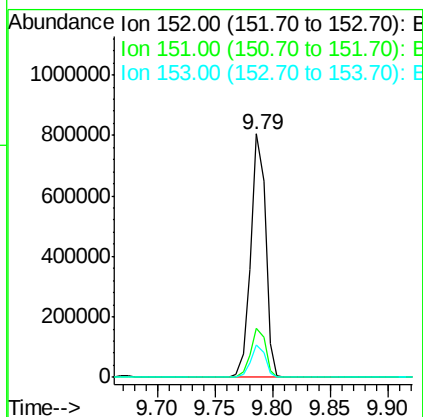
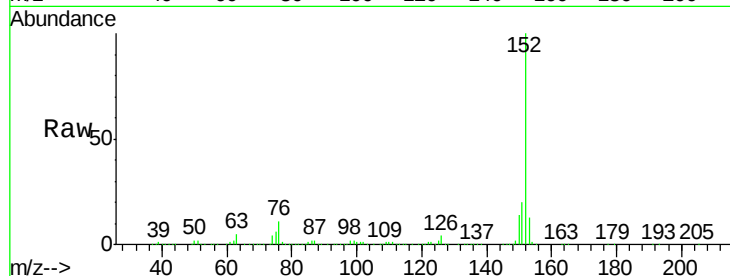




#49  
Acenaphthylene  
Concen: 40.894 ng  
RT: 9.79 min Scan# 1309  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

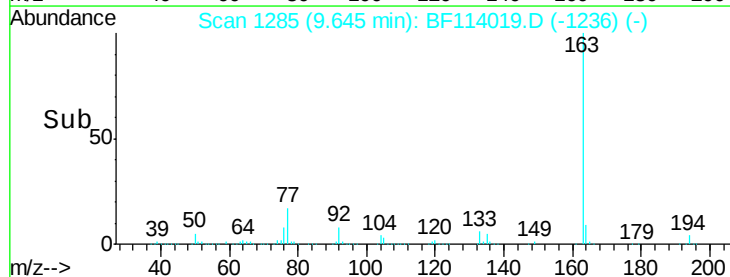
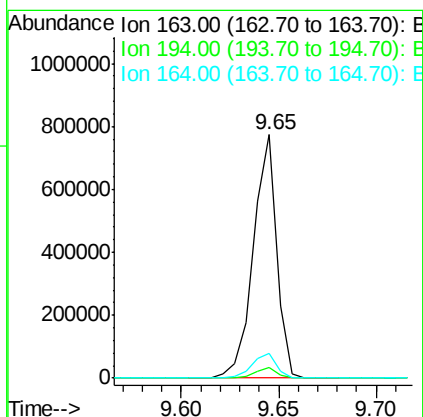
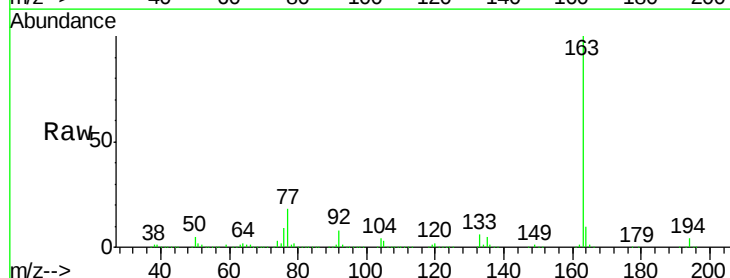
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

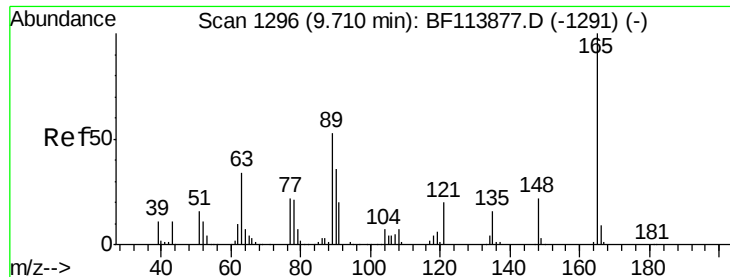
Tgt Ion:152 Resp: 717834  
Ion Ratio Lower Upper  
152 100  
151 20.3 17.0 25.4  
153 13.3 11.0 16.6



#50  
Dimethylphthalate  
Concen: 49.121 ng  
RT: 9.65 min Scan# 1285  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion:163 Resp: 641185  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.4 5.2  
164 10.1 8.5 12.7

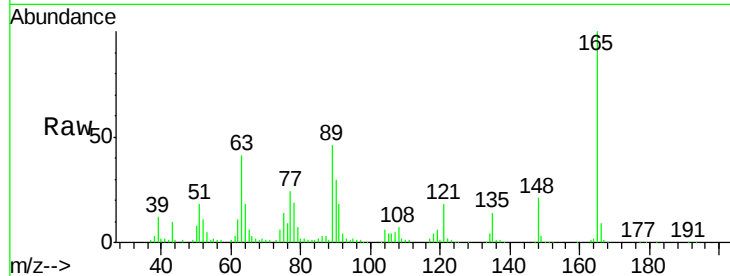




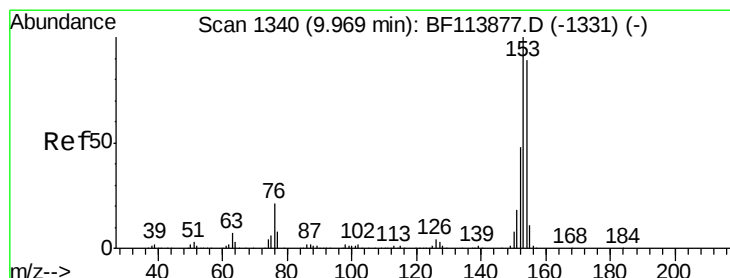
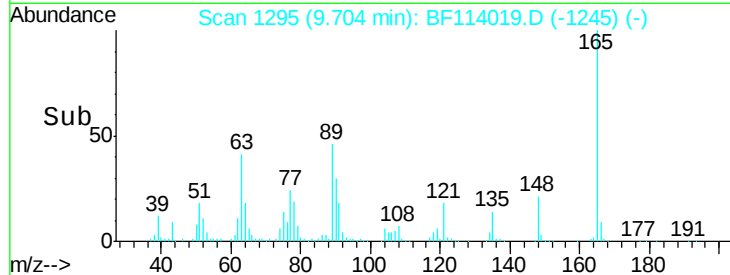
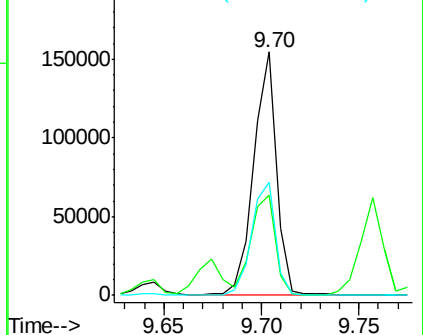
#51  
 2,6-Dinitrotoluene  
 Concen: 44.566 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 41.0  | 33.8  | 50.8  |
| 89      | 46.4  | 38.2  | 57.2  |

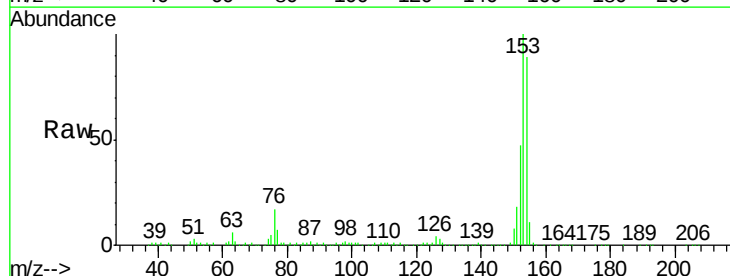


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

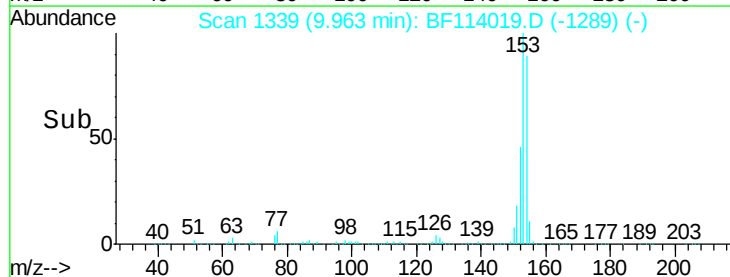
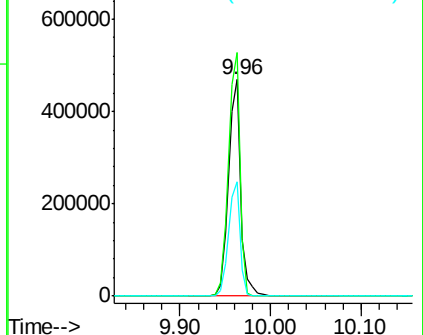


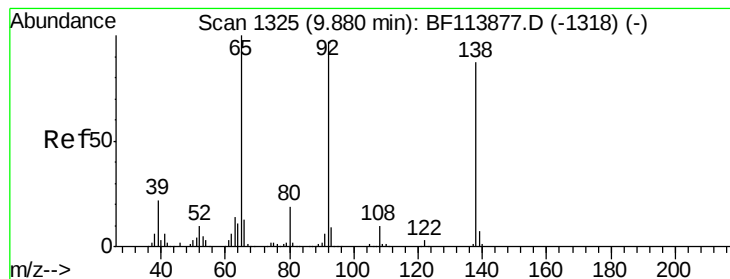
#52  
 Acenaphthene  
 Concen: 41.969 ng  
 RT: 9.96 min Scan# 1339  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.4 | 87.2  | 130.8 |
| 152     | 52.8  | 42.3  | 63.5  |



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





#53

3-Nitroaniline

Concen: 32.343 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

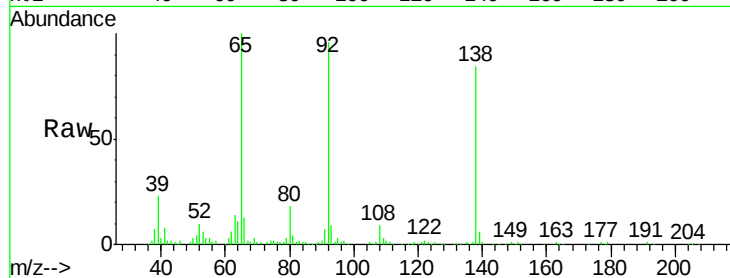
Tgt Ion:138 Resp: 95177

Ion Ratio Lower Upper

138 100

108 10.8 9.4 14.2

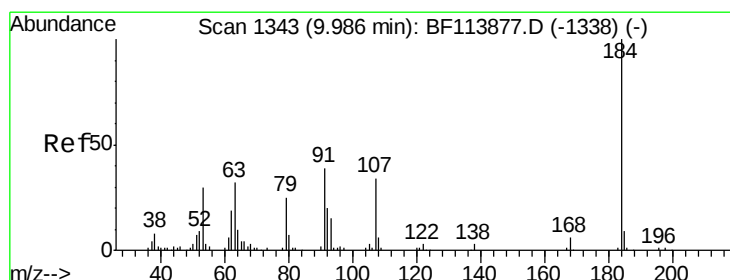
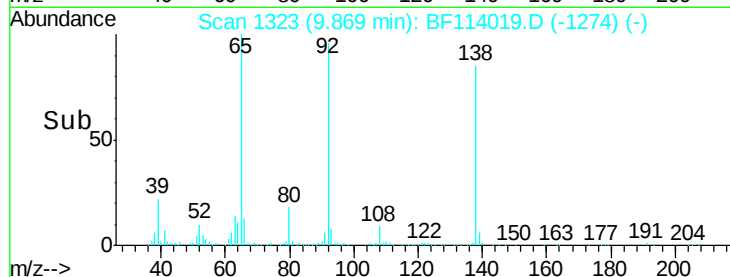
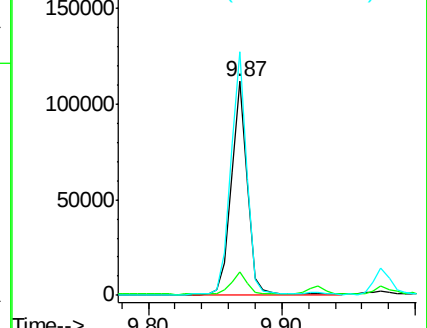
92 113.9 94.1 141.1



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



#54

2,4-Dinitrophenol

Concen: 46.001 ng

RT: 9.97 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

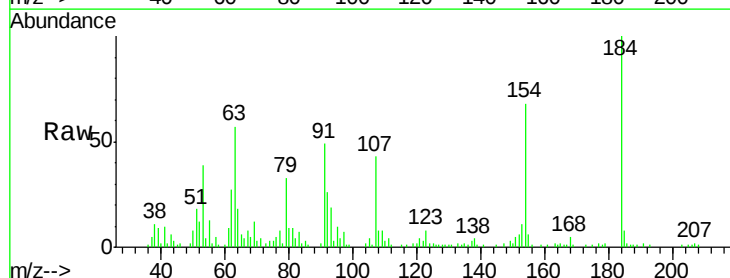
Tgt Ion:184 Resp: 50954

Ion Ratio Lower Upper

184 100

63 56.8 54.6 81.8

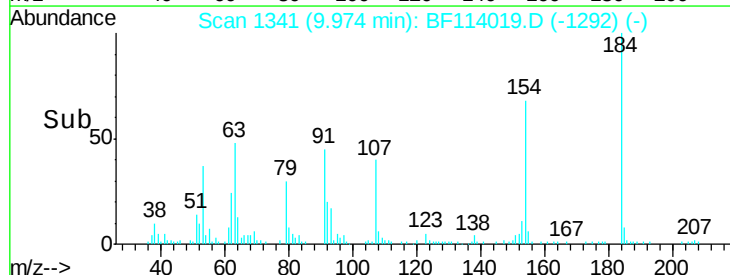
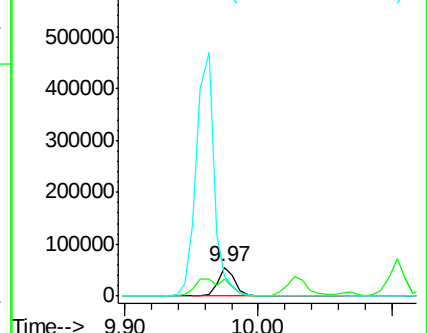
154 68.1 218.6 328.0#

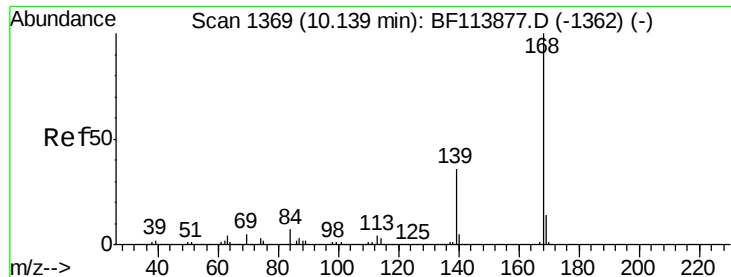


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#55

Dibenzofuran

Concen: 41.617 ng

RT: 10.13 min Scan# 1368

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

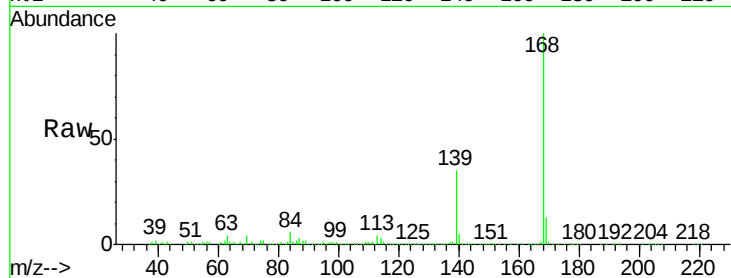
Tgt Ion:168 Resp: 646709

Ion Ratio Lower Upper

168 100

139 34.6 27.8 41.6

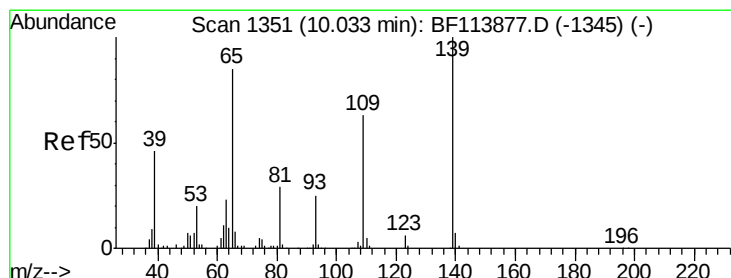
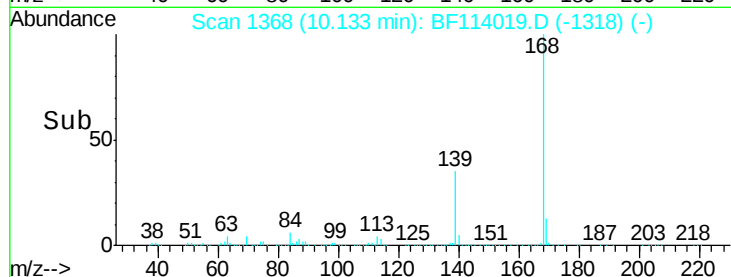
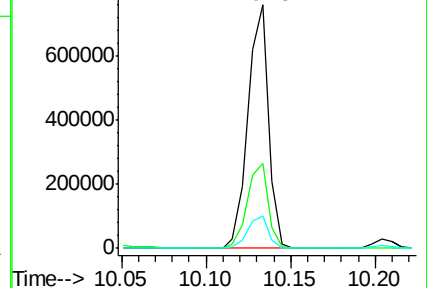
169 13.3 11.0 16.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 72.411 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

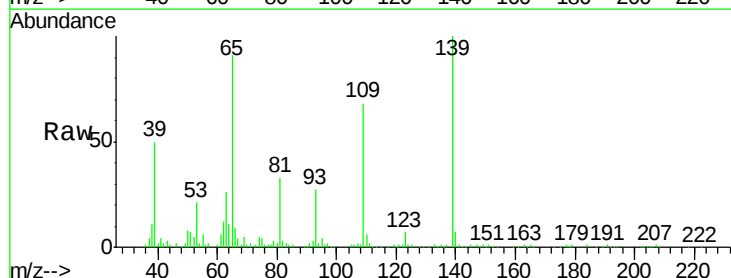
Tgt Ion:139 Resp: 168717

Ion Ratio Lower Upper

139 100

109 68.2 42.9 82.9

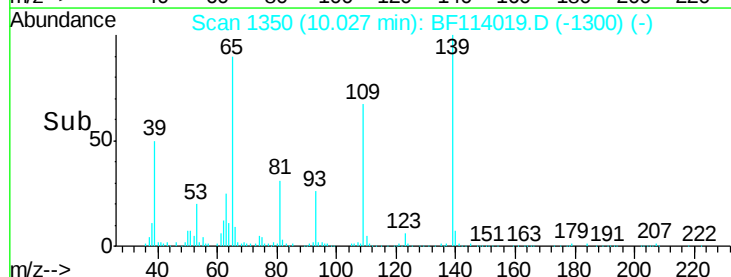
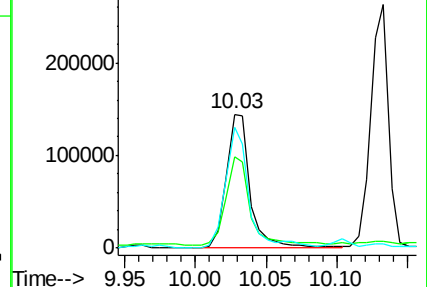
65 90.6 64.4 104.4

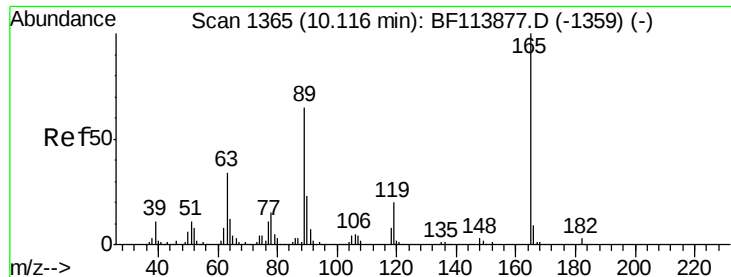


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

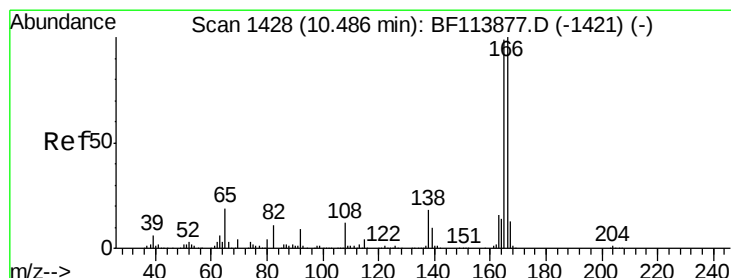
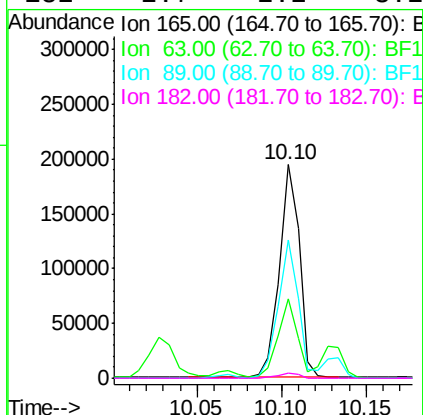
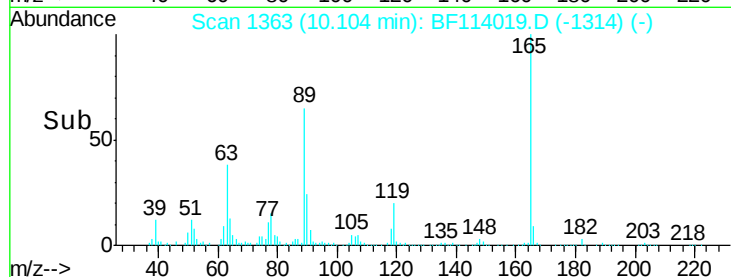
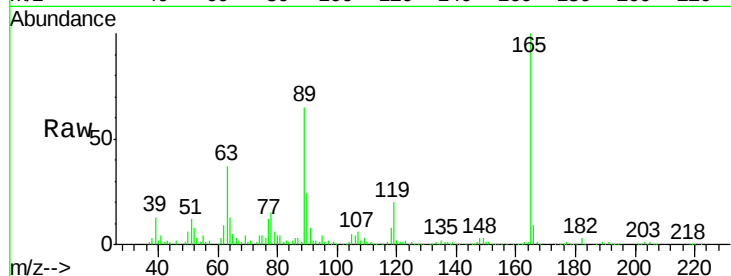




#57  
2,4-Dinitrotoluene  
Concen: 45.367 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

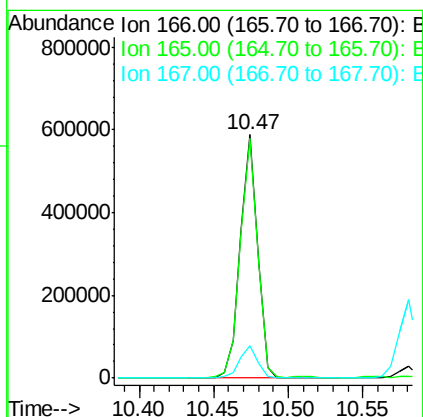
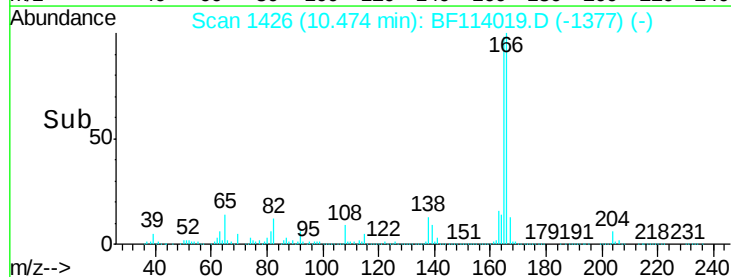
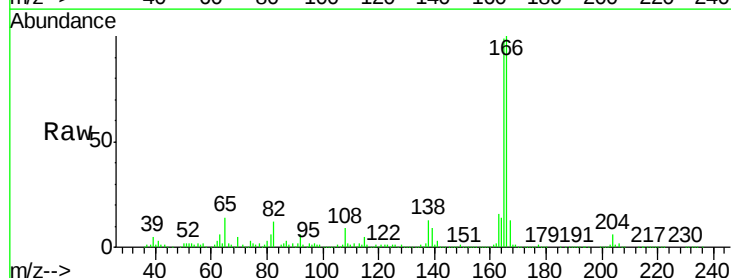
Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

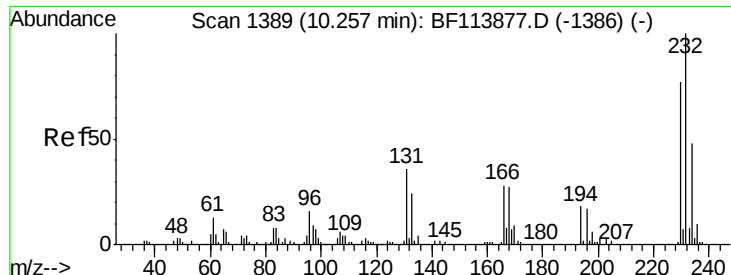
Tgt Ion:165 Resp: 160361  
Ion Ratio Lower Upper  
165 100  
63 37.4 27.4 41.0  
89 64.7 51.8 77.6  
182 2.7 2.2 3.2



#58  
Fluorene  
Concen: 40.907 ng  
RT: 10.47 min Scan# 1426  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion:166 Resp: 478574  
Ion Ratio Lower Upper  
166 100  
165 98.6 78.4 117.6  
167 13.5 10.9 16.3

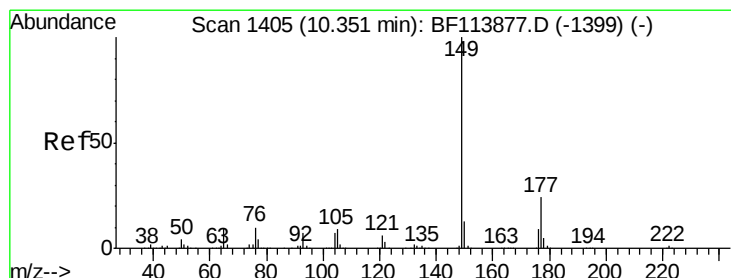
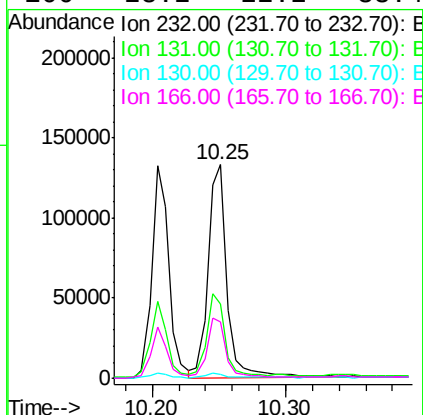
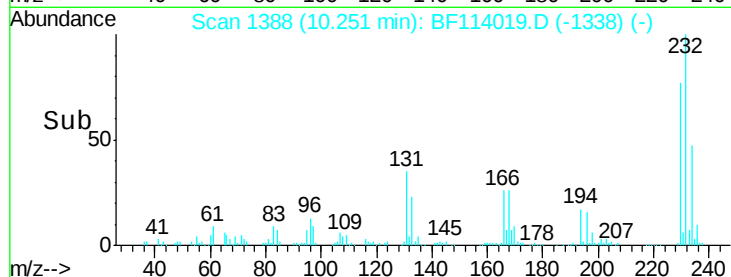
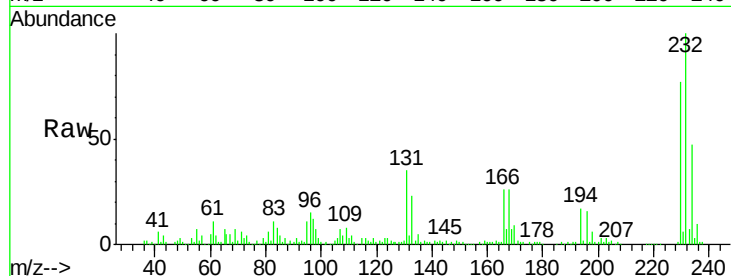




#59  
 2,3,4,6-Tetrachlorophenol  
 Concen: 35.642 ng  
 RT: 10.25 min Scan# 1388  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

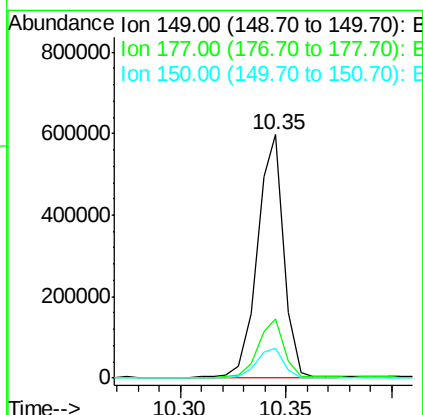
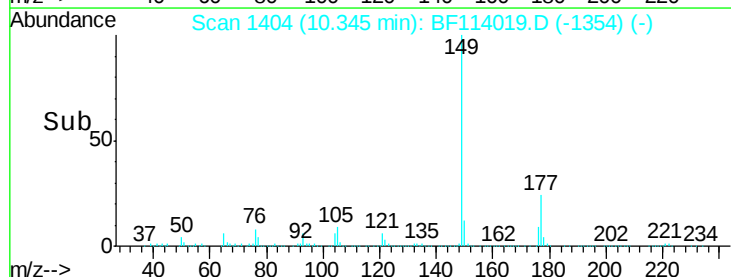
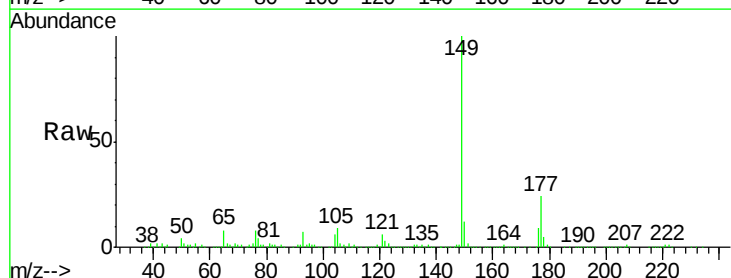
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

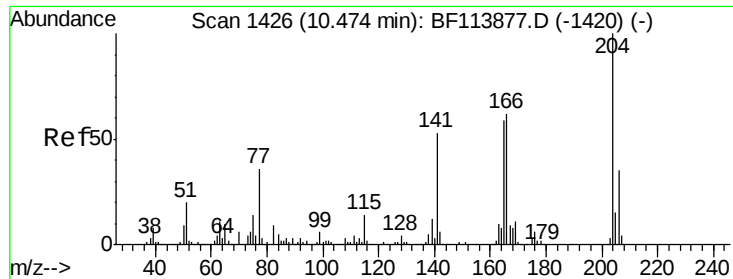
Tgt Ion: 232 Resp: 130791  
 Ion Ratio Lower Upper  
 232 100  
 131 36.0 30.2 45.2  
 130 2.0 1.5 2.3  
 166 28.2 22.2 33.4



#60  
 Diethylphthalate  
 Concen: 41.222 ng  
 RT: 10.35 min Scan# 1404  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion: 149 Resp: 510970  
 Ion Ratio Lower Upper  
 149 100  
 177 24.2 19.2 28.8  
 150 12.5 10.3 15.5

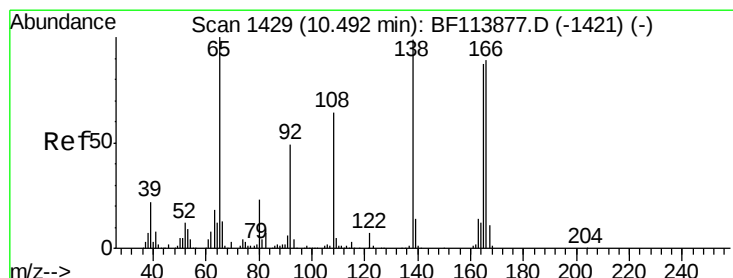
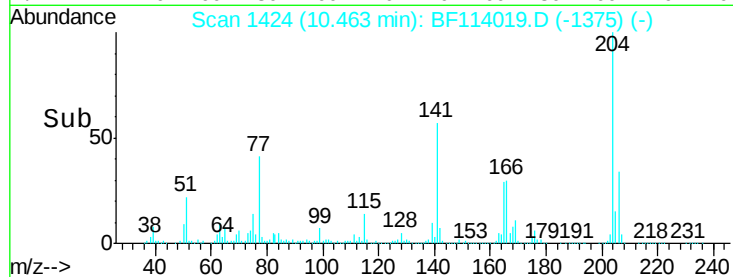
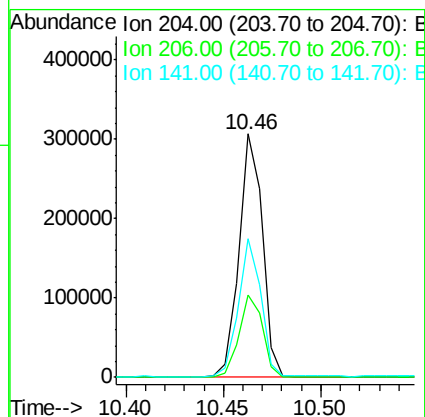
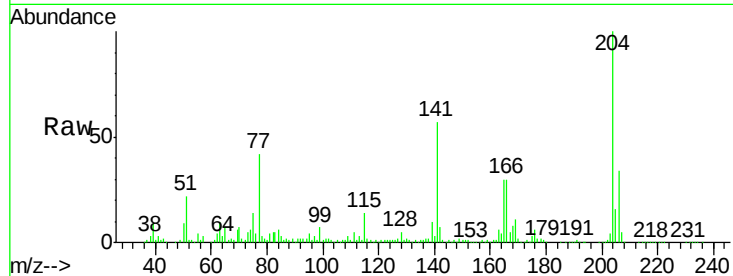




#61  
 4-Chlorophenyl-phenylether  
 Concen: 41.082 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

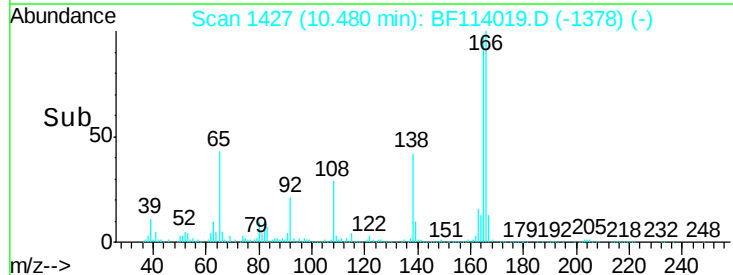
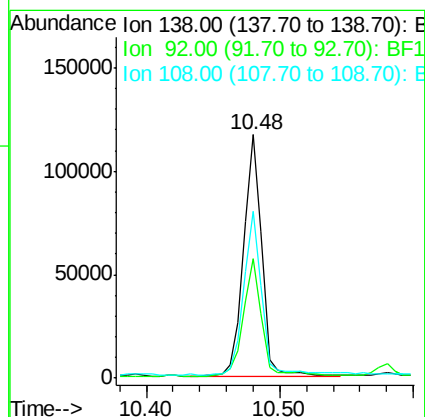
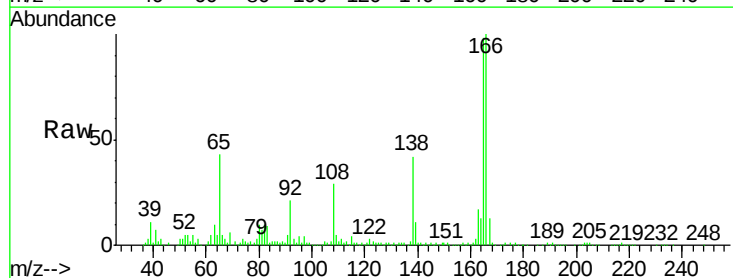
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

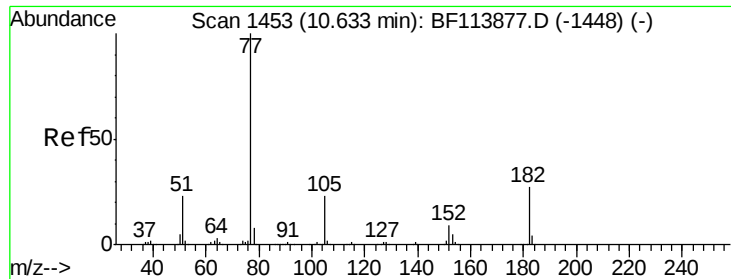
Tgt Ion: 204 Resp: 254538  
 Ion Ratio Lower Upper  
 204 100  
 206 33.7 27.4 41.2  
 141 56.8 42.6 63.8



#62  
 4-Nitroaniline  
 Concen: 38.715 ng  
 RT: 10.48 min Scan# 1427  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion: 138 Resp: 111179  
 Ion Ratio Lower Upper  
 138 100  
 92 49.0 31.3 71.3  
 108 68.4 48.9 88.9





#63

Azobenzene

Concen: 38.630 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

Tgt Ion: 77 Resp: 464094

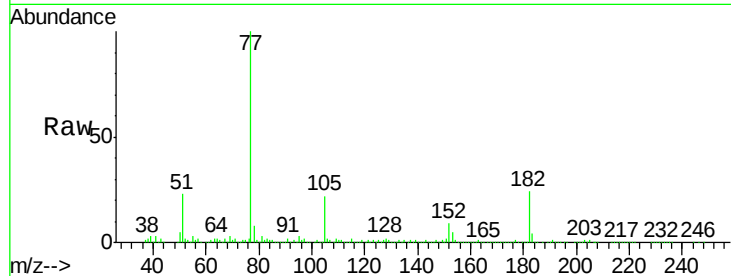
Ion Ratio Lower Upper

77 100

182 24.3 4.4 44.4

105 22.4 2.2 42.2

51 23.0 3.9 43.9

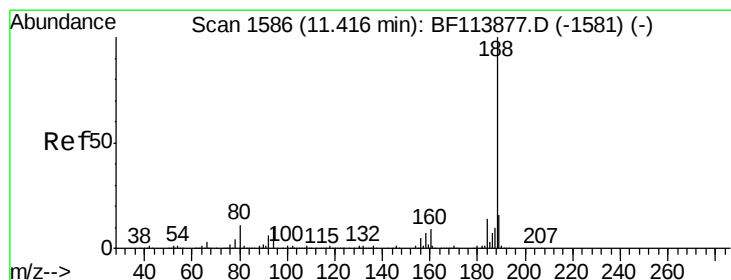
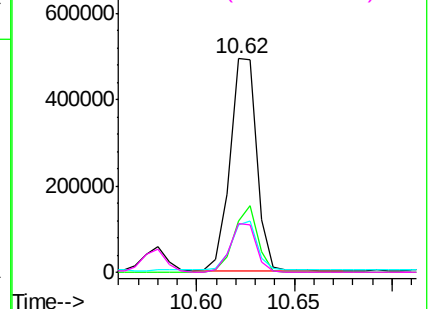
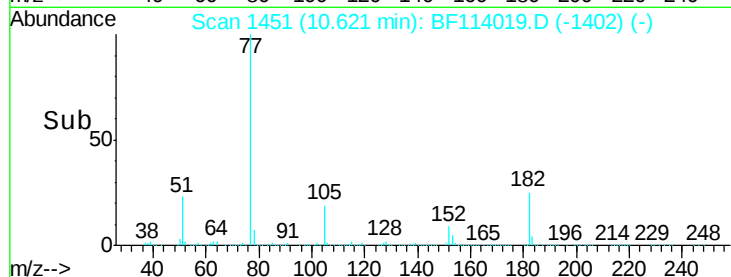


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

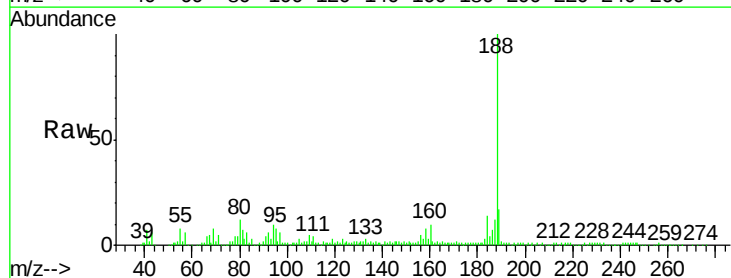
Tgt Ion: 188 Resp: 316986

Ion Ratio Lower Upper

188 100

94 10.3 8.2 12.4

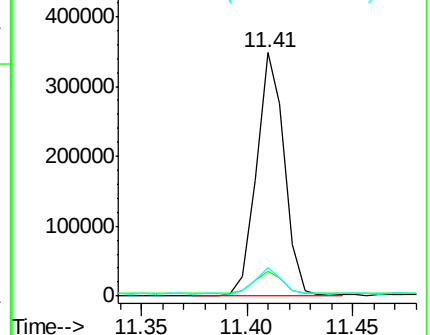
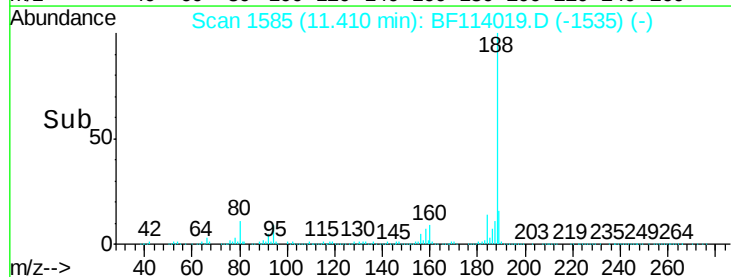
80 11.6 9.0 13.6

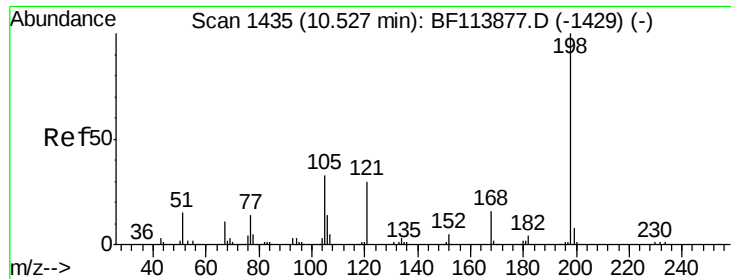


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

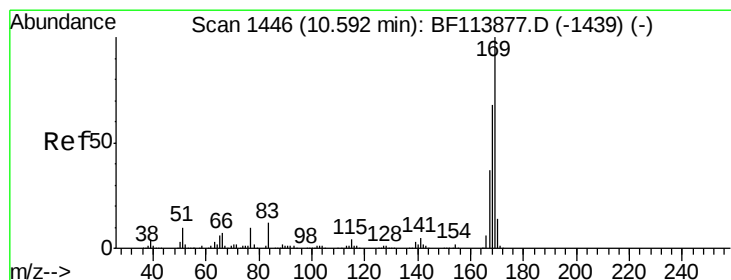
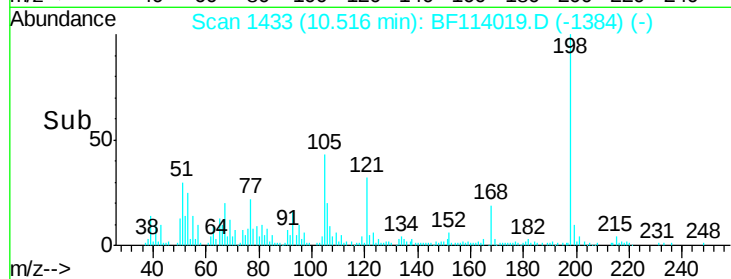
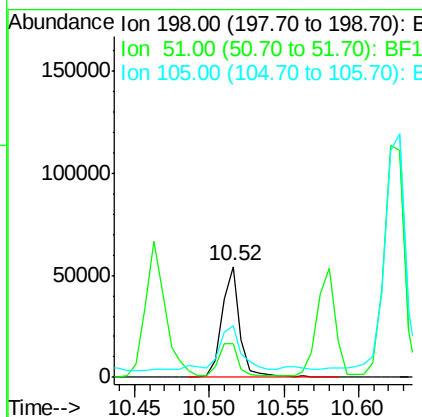
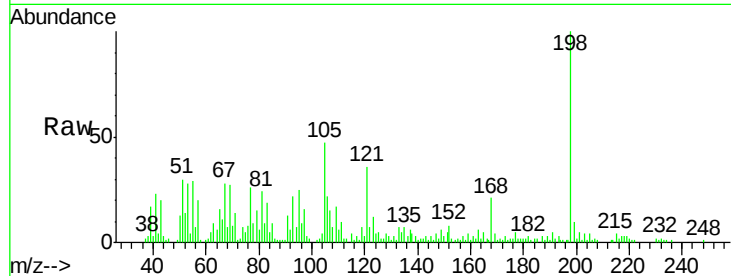




#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 33.981 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

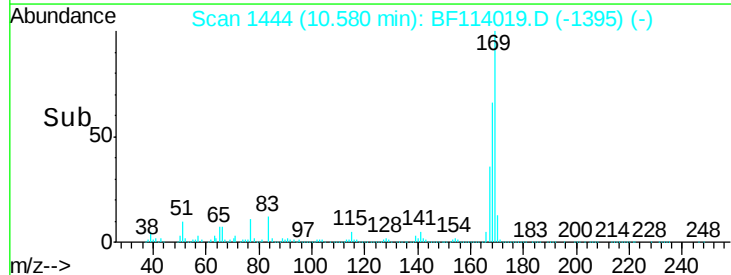
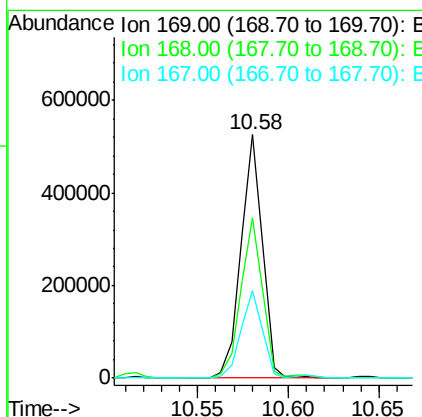
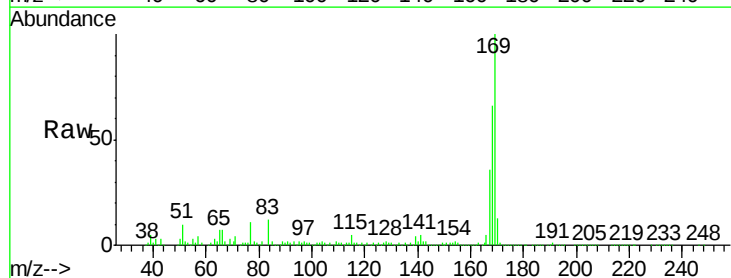
Instrument :  
 BNA\_F  
 ClientSampleId :  
 114-PENNINGTONMS

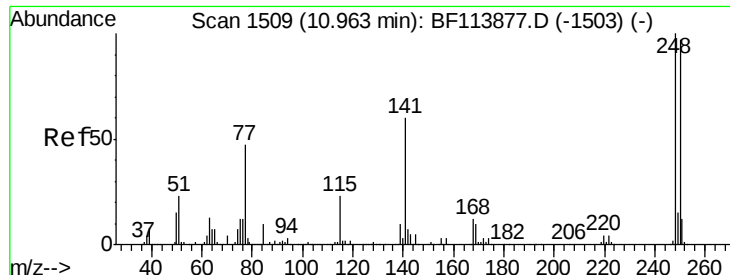
Tgt Ion:198 Resp: 45712  
 Ion Ratio Lower Upper  
 198 100  
 51 30.4 11.1 51.1  
 105 46.9 20.7 60.7



#66  
 n-Nitrosodiphenylamine  
 Concen: 45.267 ng  
 RT: 10.58 min Scan# 1444  
 Delta R.T. -0.01 min  
 Lab File: BF114019.D  
 Acq: 29 Apr 2019 12:46

Tgt Ion:169 Resp: 430549  
 Ion Ratio Lower Upper  
 169 100  
 168 66.1 54.3 81.5  
 167 35.9 29.4 44.0

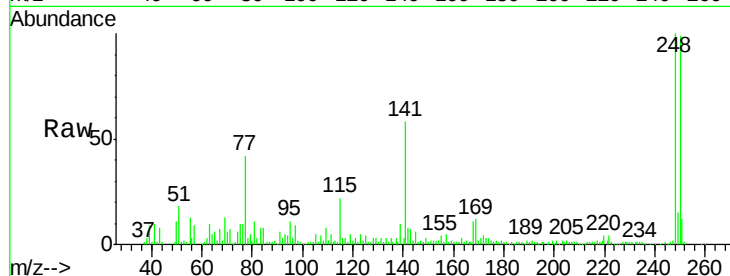




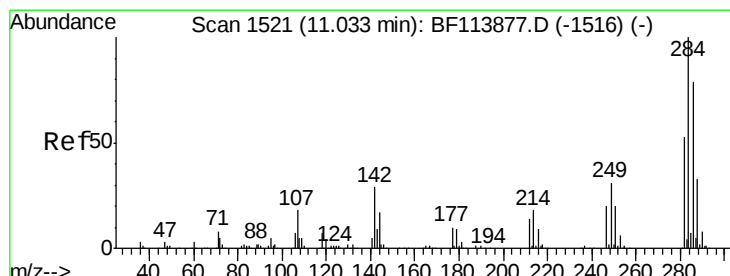
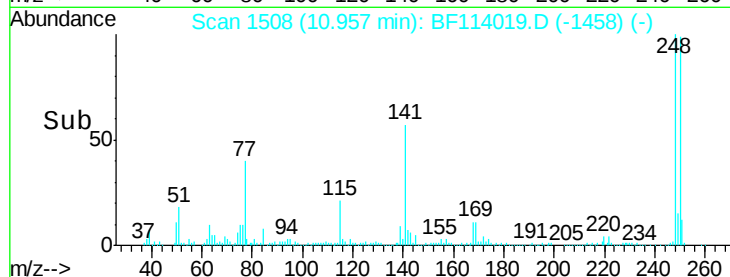
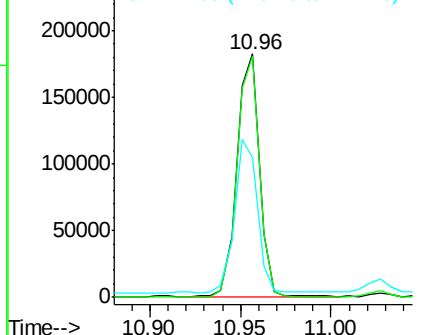
#67  
4-Bromophenyl-phenylether  
Concen: 40.747 ng  
RT: 10.96 min Scan# 1508  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

Tgt Ion:248 Resp: 156033  
Ion Ratio Lower Upper  
248 100  
250 99.1 75.8 113.6  
141 57.5 50.2 75.4

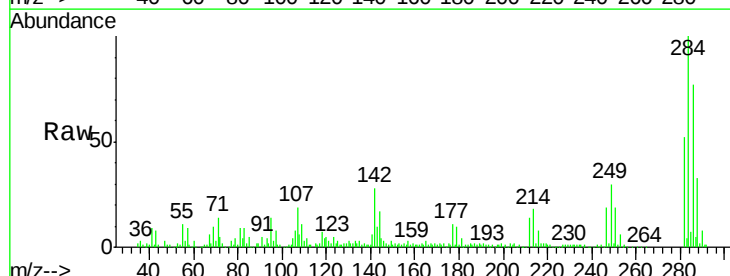


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

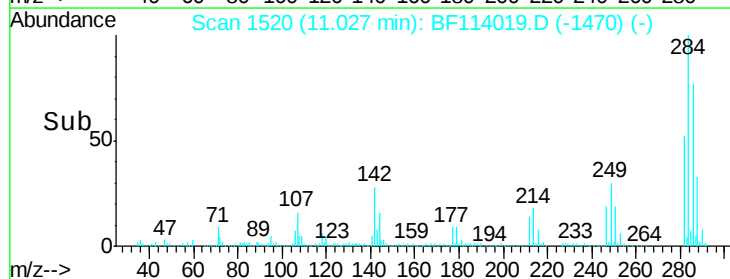
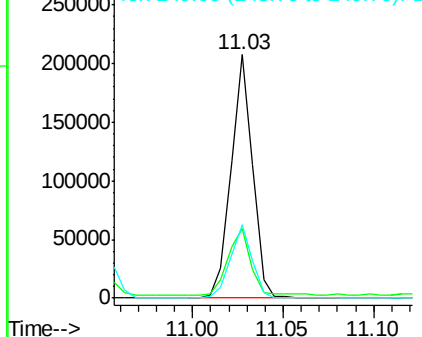


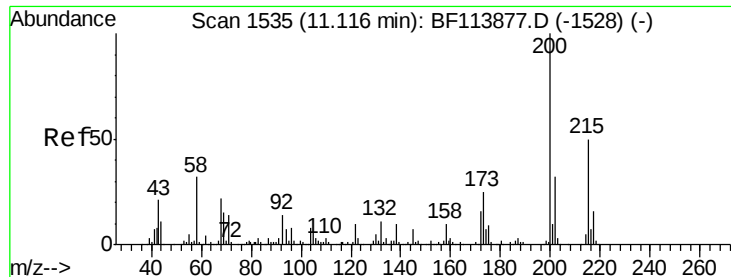
#68  
Hexachlorobenzene  
Concen: 40.737 ng  
RT: 11.03 min Scan# 1520  
Delta R.T. -0.01 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion:284 Resp: 171424  
Ion Ratio Lower Upper  
284 100  
142 28.4 23.0 34.4  
249 30.3 24.4 36.6



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





#69

Atrazine

Concen: 42.700 ng

RT: 11.10 min Scan# 1533

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

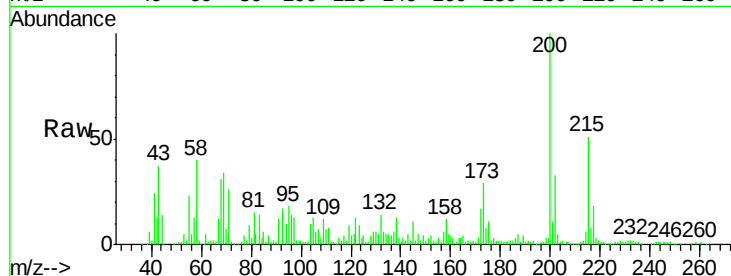
Tgt Ion:200 Resp: 132117

Ion Ratio Lower Upper

200 100

173 28.8 5.9 45.9

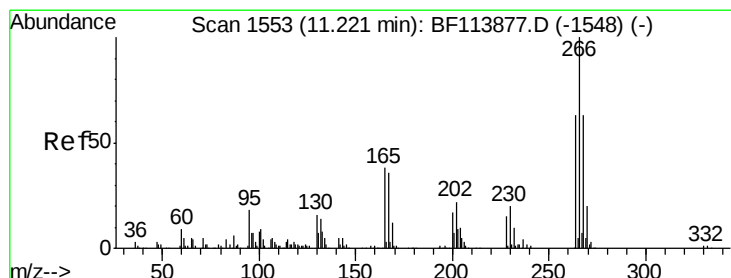
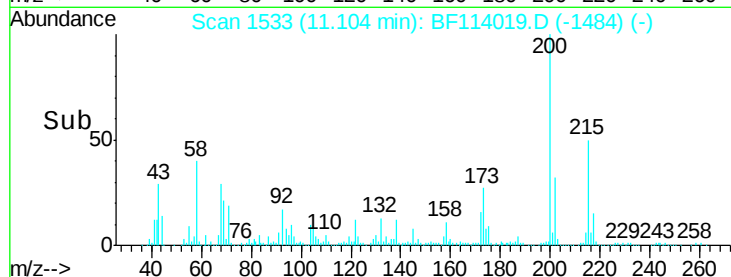
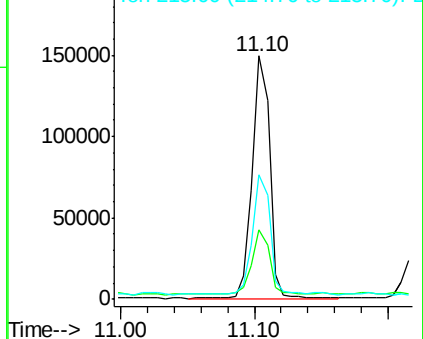
215 51.2 29.3 69.3



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



#70

Pentachlorophenol

Concen: 63.440 ng

RT: 11.22 min Scan# 1552

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

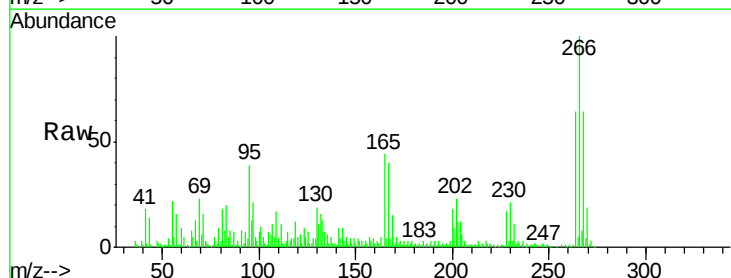
Tgt Ion:266 Resp: 151147

Ion Ratio Lower Upper

266 100

268 63.6 53.5 80.3

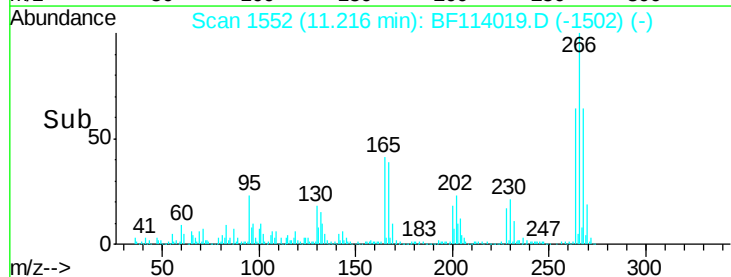
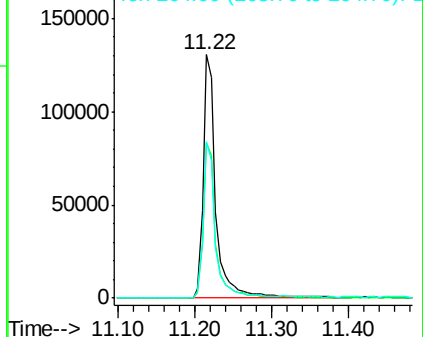
264 64.3 51.0 76.6

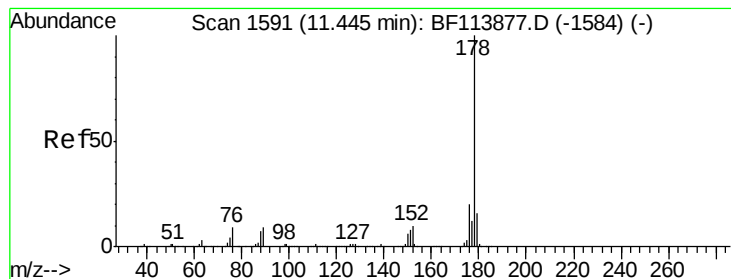


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#71

Phenanthrene

Concen: 42.296 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

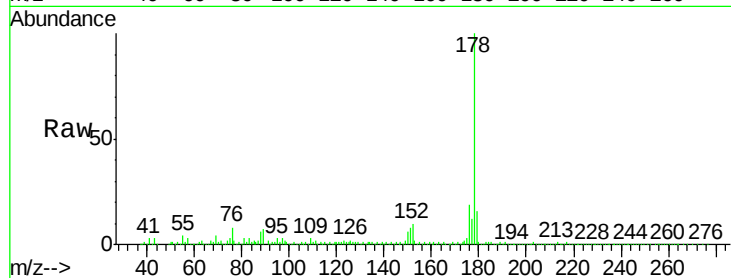
Tgt Ion:178 Resp: 673783

Ion Ratio Lower Upper

178 100

176 19.4 16.1 24.1

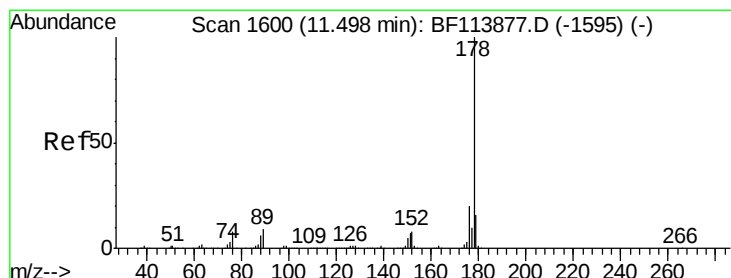
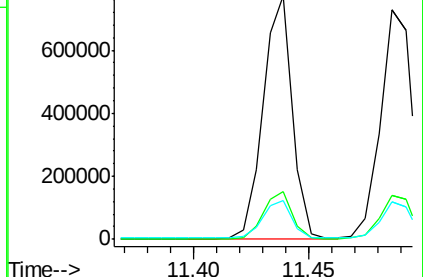
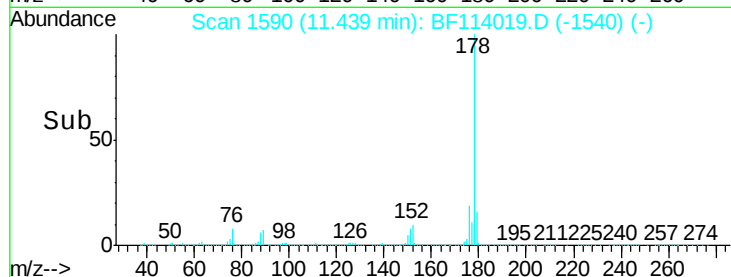
179 16.0 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 42.476 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

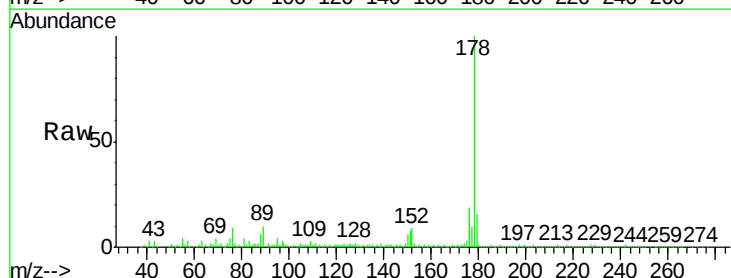
Tgt Ion:178 Resp: 683316

Ion Ratio Lower Upper

178 100

176 19.0 15.7 23.5

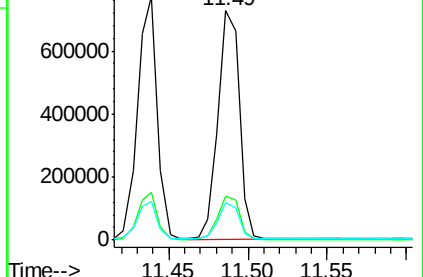
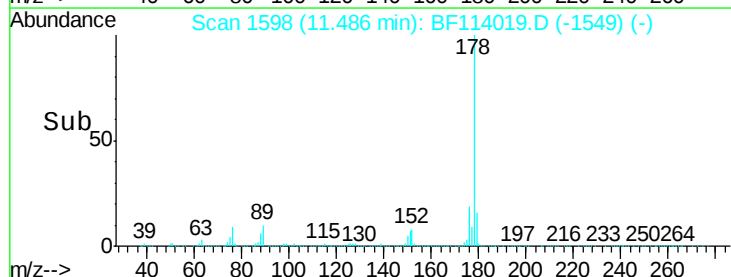
179 16.2 13.0 19.4

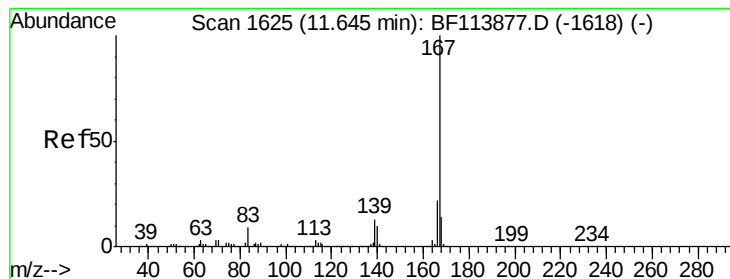


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 40.253 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

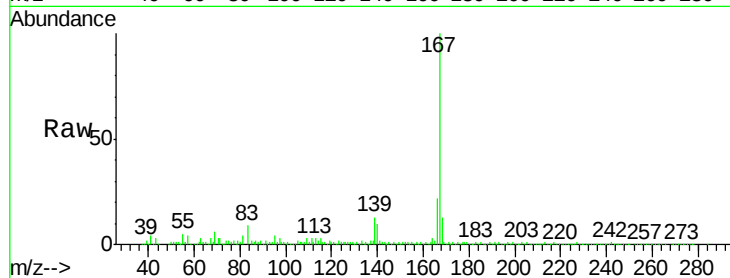
Tgt Ion:167 Resp: 577715

Ion Ratio Lower Upper

167 100

166 22.0 17.7 26.5

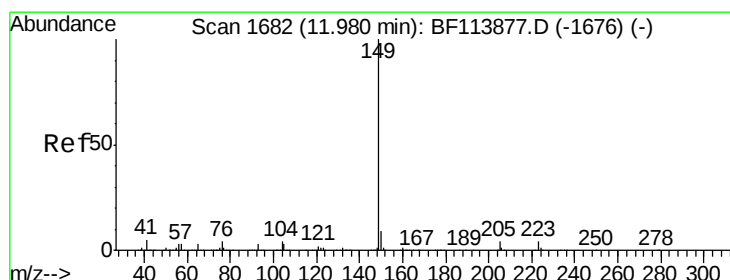
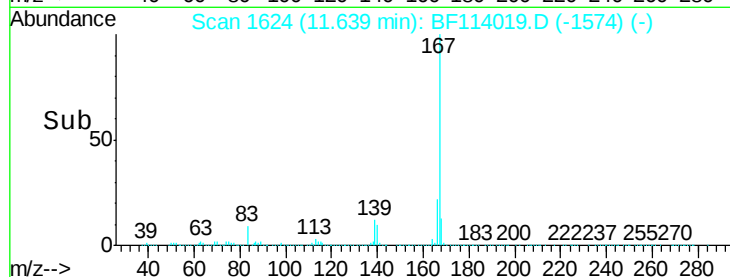
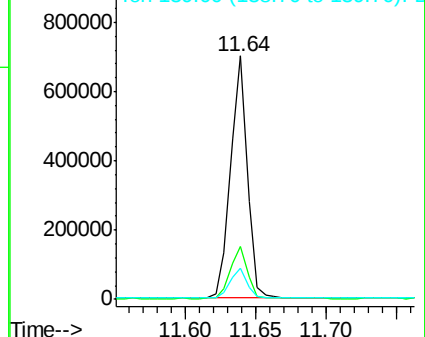
139 12.8 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Di-n-butylphthalate

Concen: 42.552 ng

RT: 11.97 min Scan# 1680

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

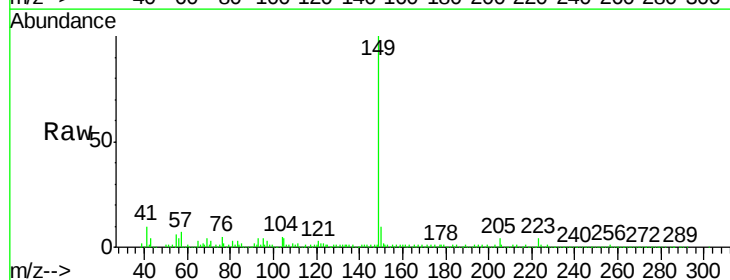
Tgt Ion:149 Resp: 718398

Ion Ratio Lower Upper

149 100

150 9.7 7.8 11.8

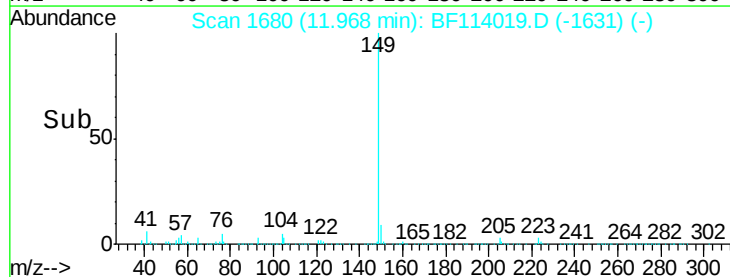
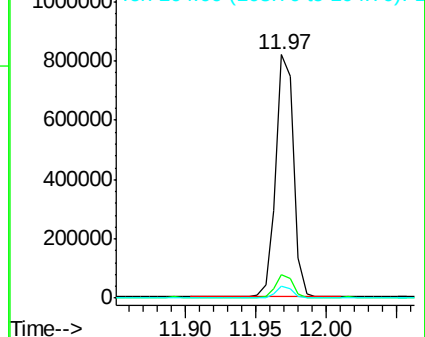
104 4.8 3.8 5.8

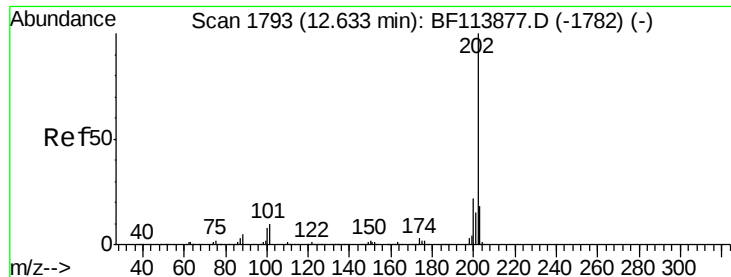


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 38.095 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

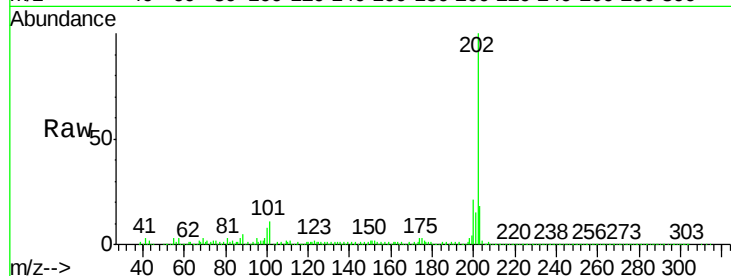
Tgt Ion:202 Resp: 662111

Ion Ratio Lower Upper

202 100

101 10.5 0.0 32.9

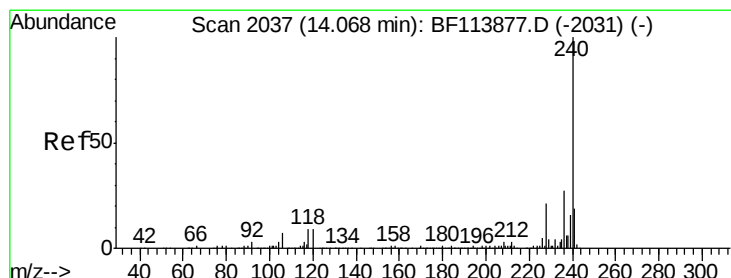
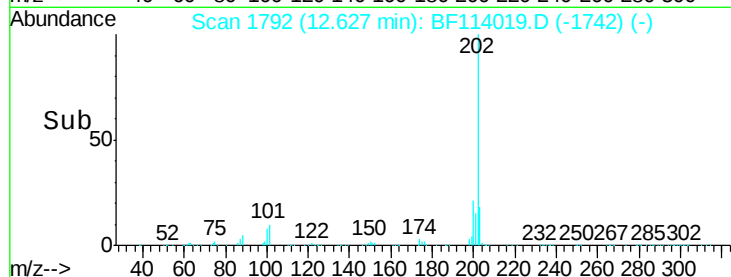
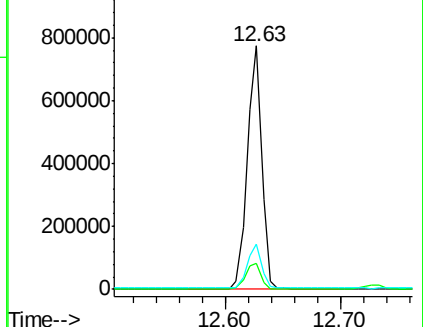
203 18.3 0.0 38.2



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

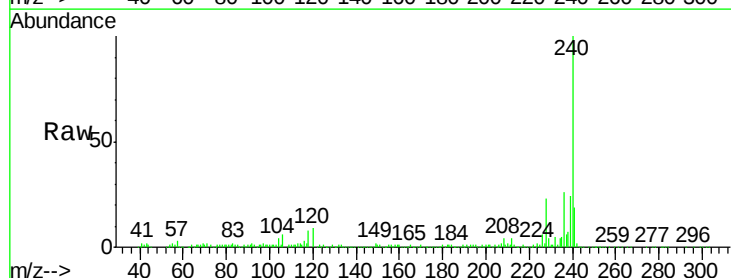
Tgt Ion:240 Resp: 211381

Ion Ratio Lower Upper

240 100

120 8.8 9.3 13.9#

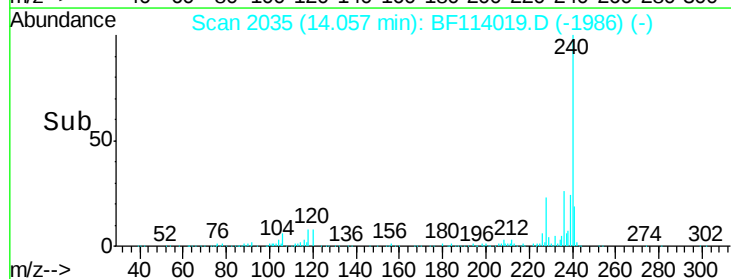
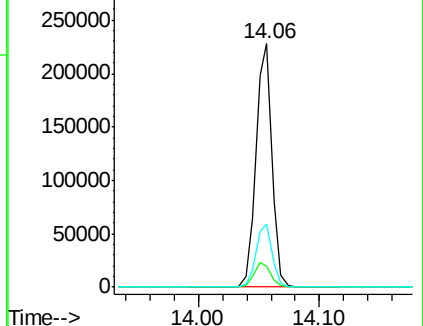
236 25.8 21.2 31.8

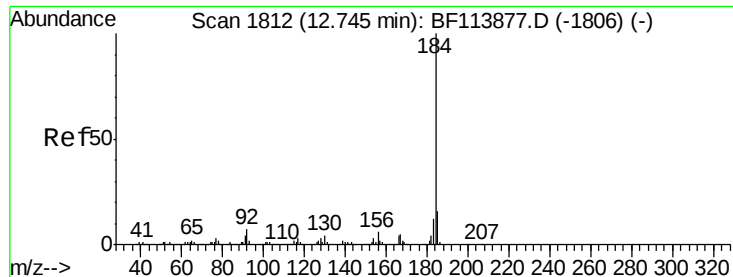


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 20.155 ng

RT: 12.74 min Scan# 1811

Delta R.T. -0.00 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

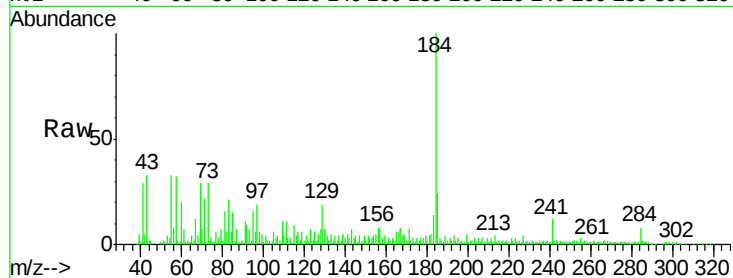
Tgt Ion:184 Resp: 126939

Ion Ratio Lower Upper

184 100

185 24.3 13.0 19.6#

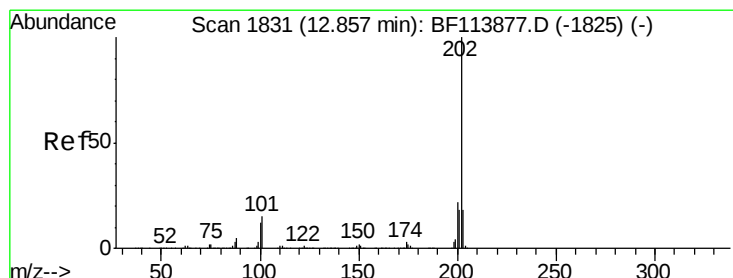
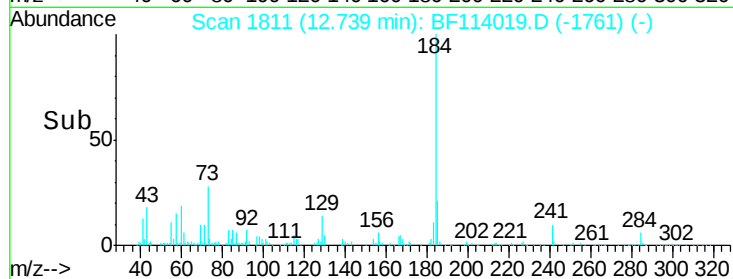
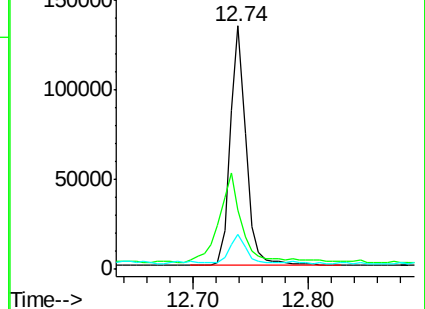
183 14.4 9.4 14.0#



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



#78

Pyrene

Concen: 44.584 ng

RT: 12.85 min Scan# 1830

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

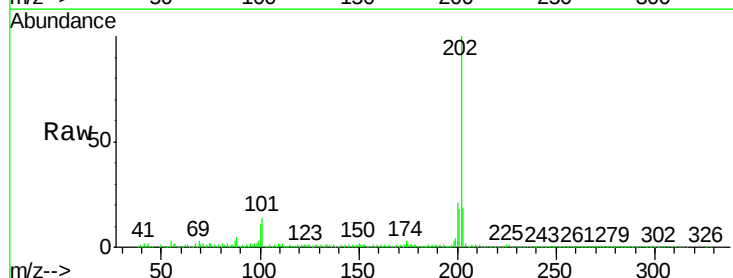
Tgt Ion:202 Resp: 659045

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

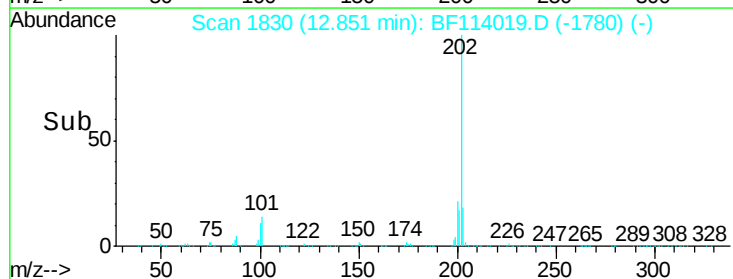
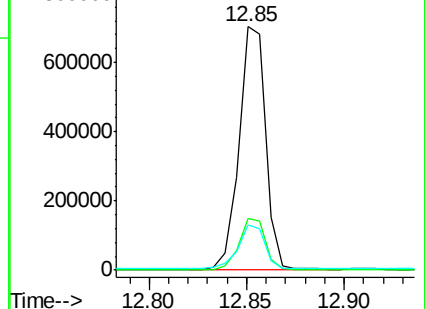
203 18.5 15.0 22.6

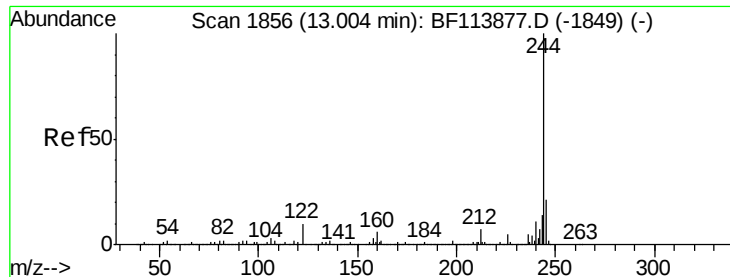


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 87.764 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

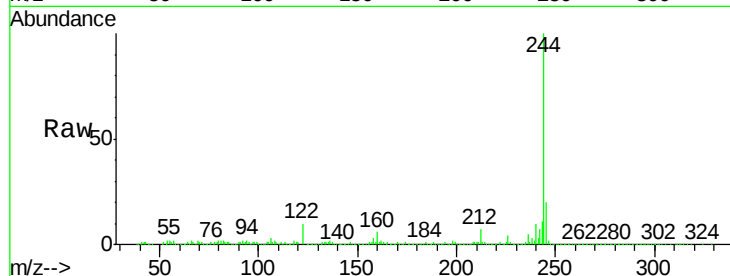
Tgt Ion:244 Resp: 904904

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

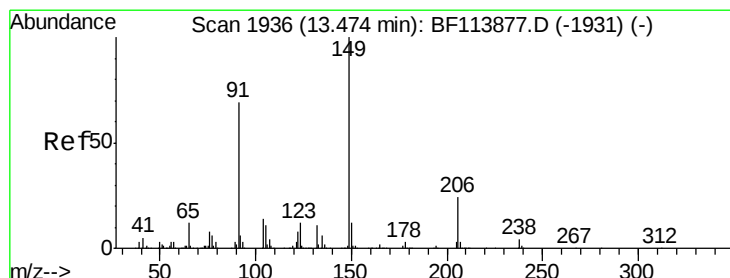
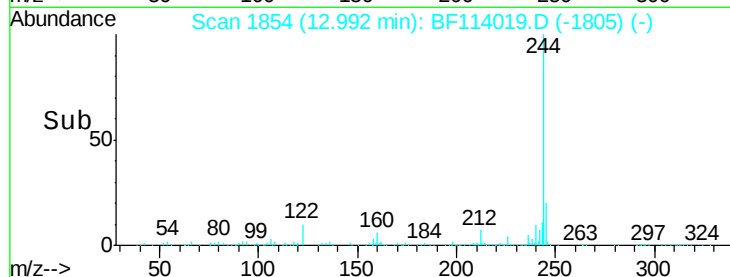
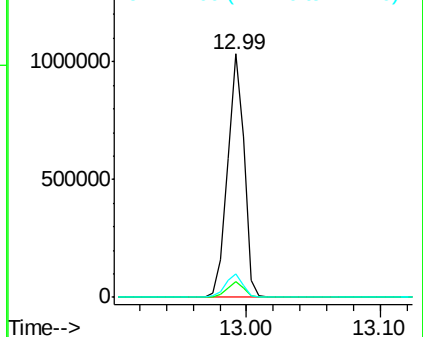
122 9.9 7.6 11.4



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



#80

Butylbenzylphthalate

Concen: 46.382 ng

RT: 13.46 min Scan# 1934

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

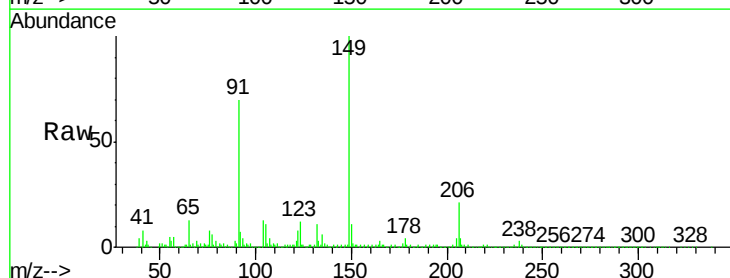
Tgt Ion:149 Resp: 269761

Ion Ratio Lower Upper

149 100

91 70.5 56.3 84.5

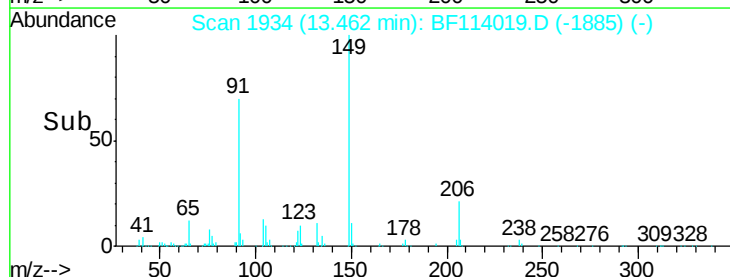
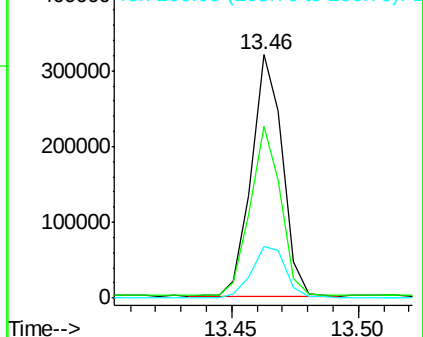
206 21.1 19.0 28.6

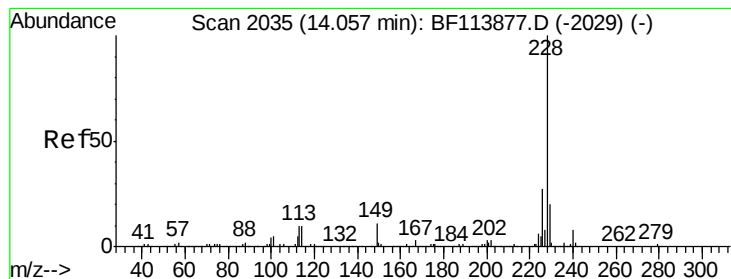


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 43.787 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

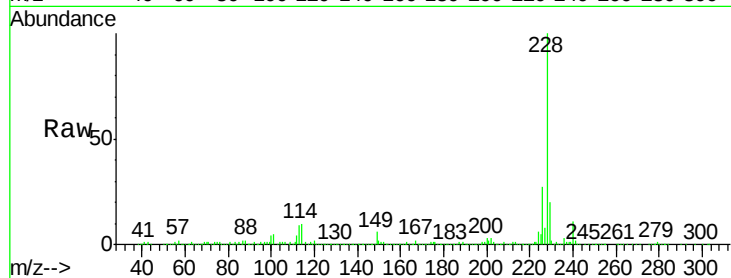
Tgt Ion:228 Resp: 545336

Ion Ratio Lower Upper

228 100

226 26.8 22.2 33.2

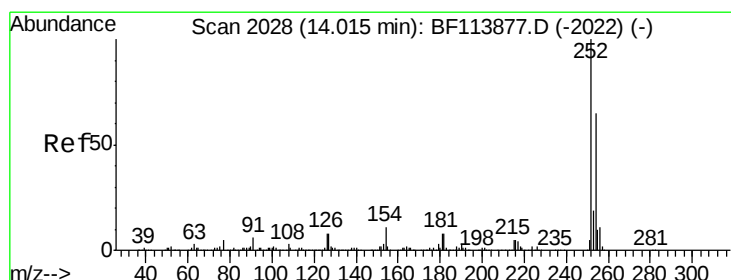
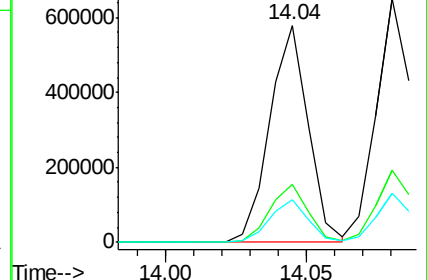
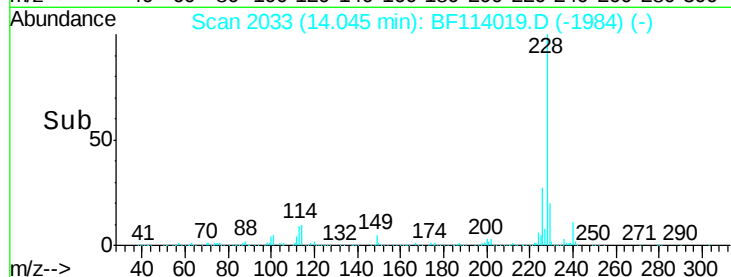
229 19.8 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

3,3'-Dichlorobenzidine

Concen: 14.771 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

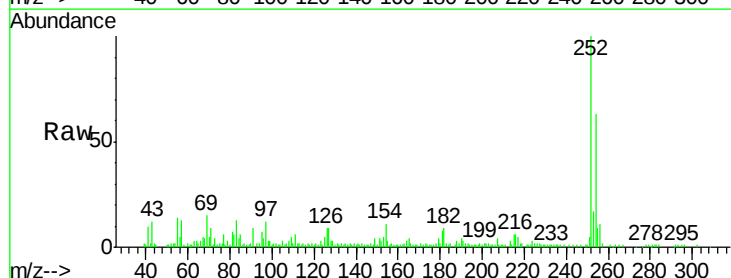
Tgt Ion:252 Resp: 67426

Ion Ratio Lower Upper

252 100

254 63.2 52.1 78.1

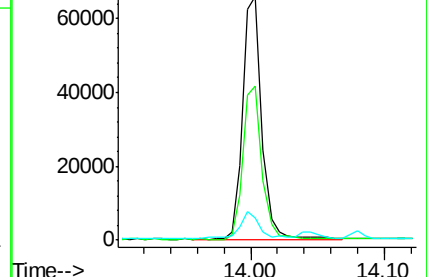
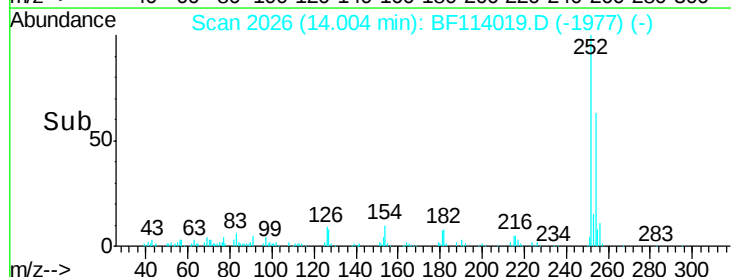
126 9.4 9.3 13.9

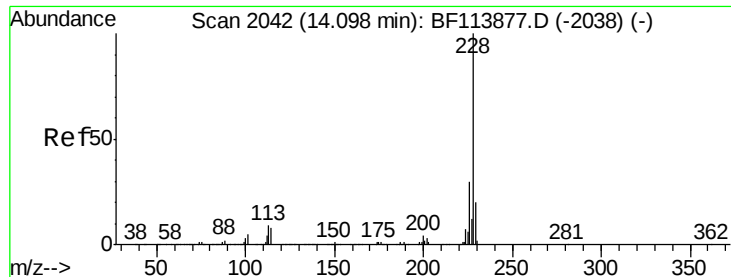


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#83

Chrysene

Concen: 45.517 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

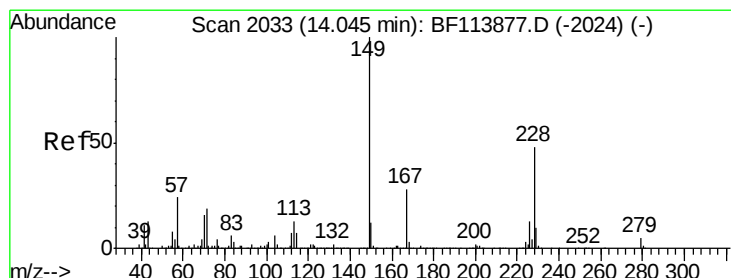
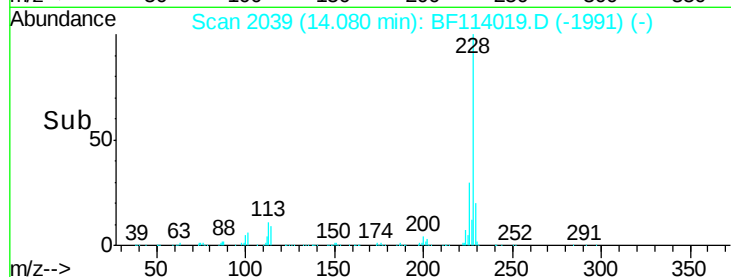
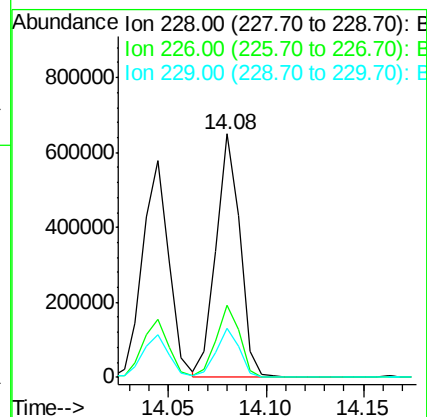
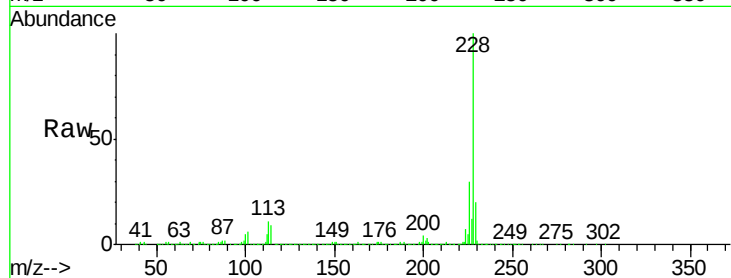
Tgt Ion:228 Resp: 552090

Ion Ratio Lower Upper

228 100

226 29.6 25.2 37.8

229 20.2 16.7 25.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 51.305 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

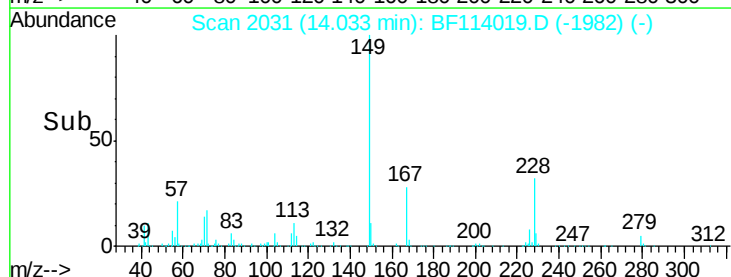
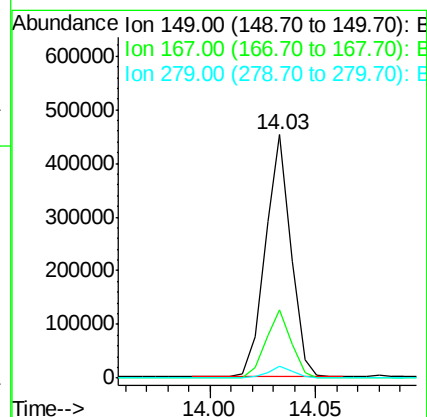
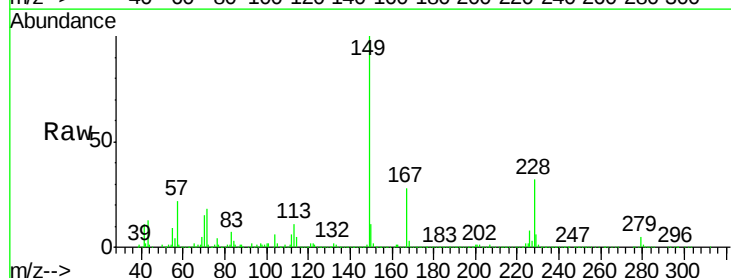
Tgt Ion:149 Resp: 379645

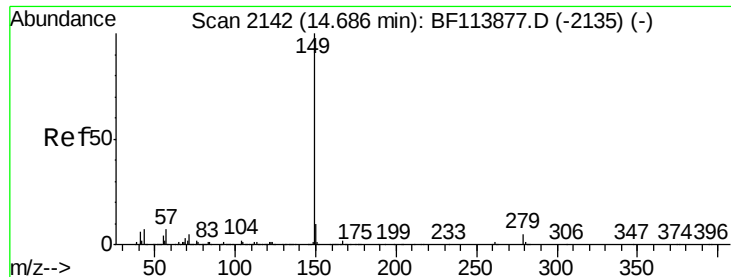
Ion Ratio Lower Upper

149 100

167 27.9 22.9 34.3

279 4.8 4.2 6.2





#85

Di-n-octyl phthalate

Concen: 53.997 ng

RT: 14.67 min Scan# 2139

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

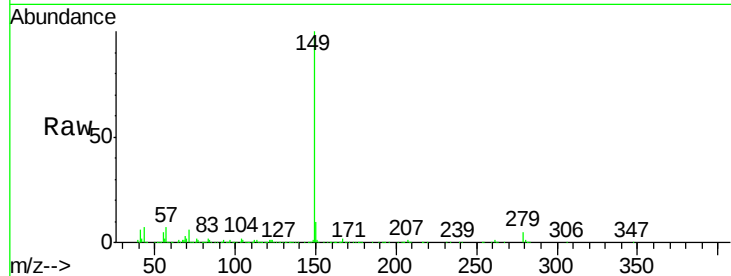
Tgt Ion:149 Resp: 625412

Ion Ratio Lower Upper

149 100

167 1.7 1.3 1.9

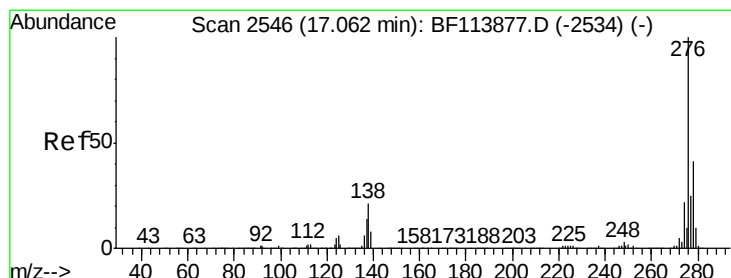
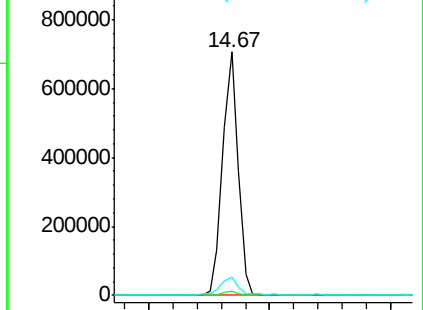
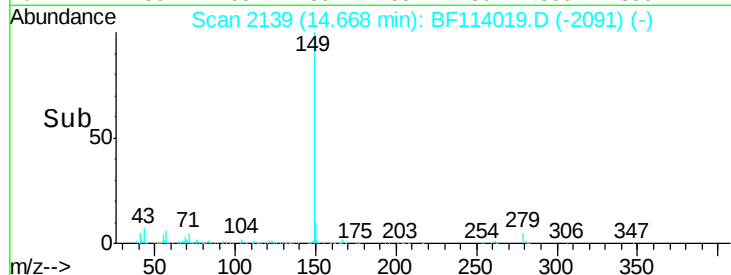
43 7.4 6.6 10.0



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 65.064 ng

RT: 17.05 min Scan# 2544

Delta R.T. -0.01 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

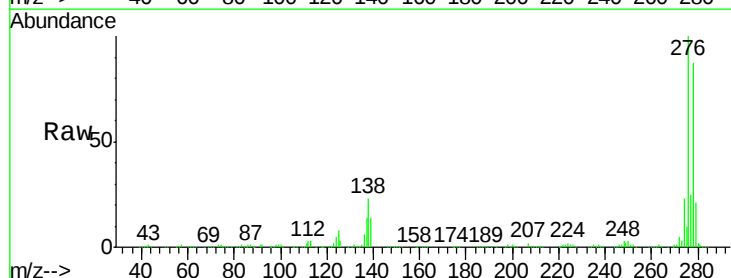
Tgt Ion:276 Resp: 747530

Ion Ratio Lower Upper

276 100

138 22.5 19.6 29.4

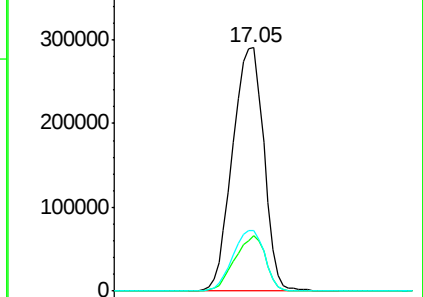
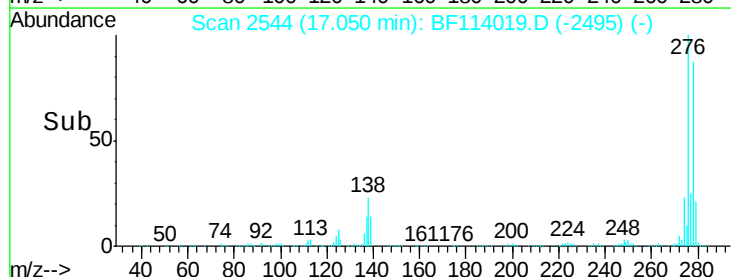
277 25.4 20.2 30.4

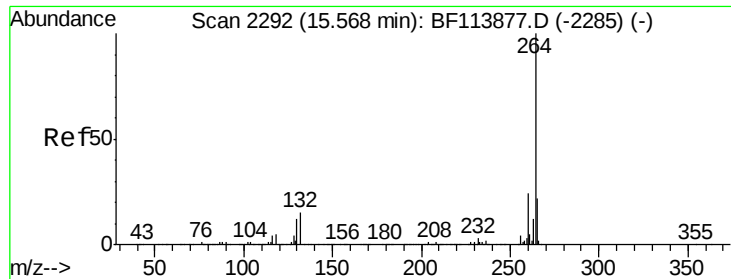


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



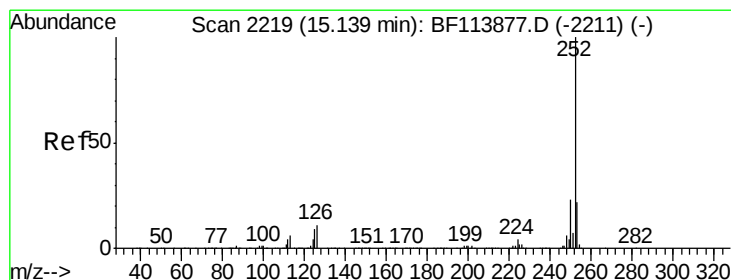
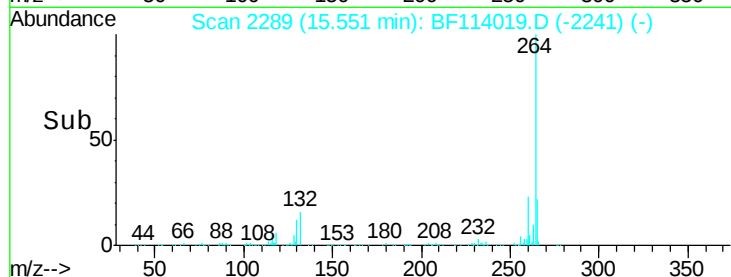
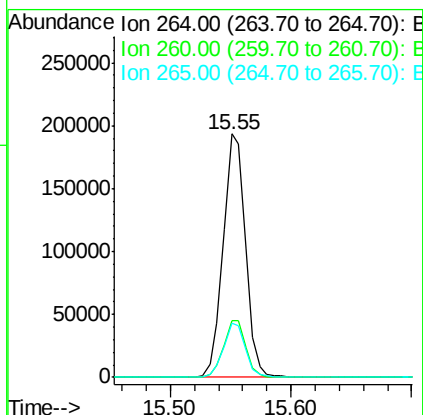
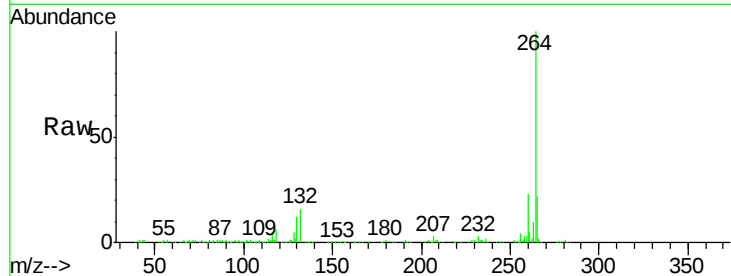


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.55 min Scan# 2289  
Delta R.T. -0.02 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Instrument :  
BNA\_F  
ClientSampleId :  
114-PENNINGTONMS

Tgt Ion: 264 Resp: 248004  

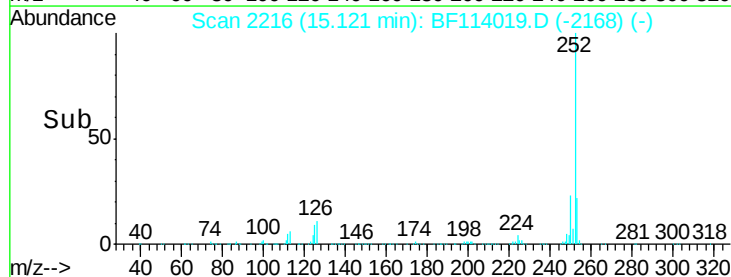
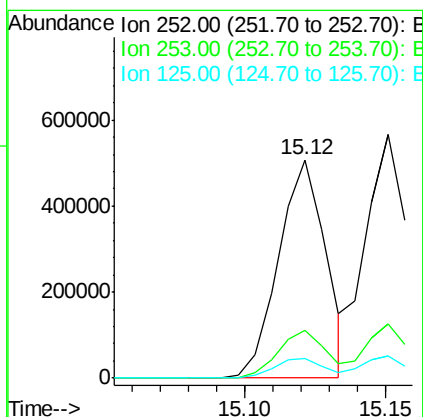
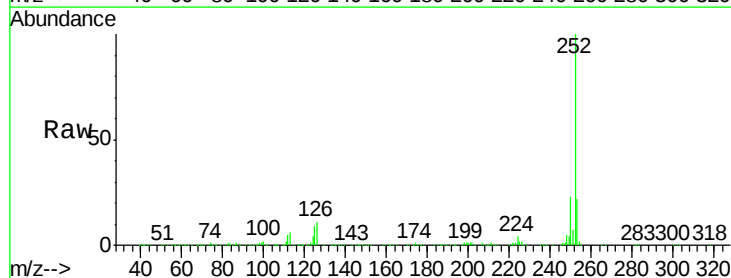
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.4  | 18.9  | 28.3  |
| 265 | 22.0  | 17.3  | 25.9  |

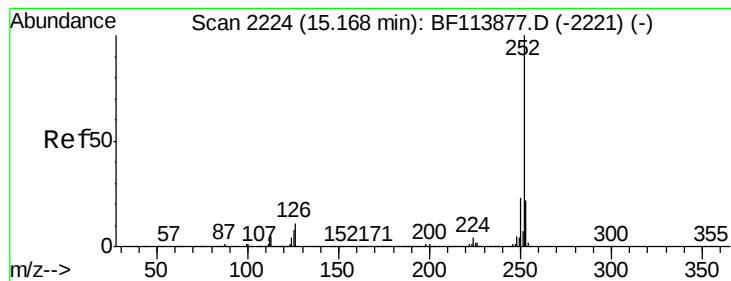


#88  
Benzo(b)fluoranthene  
Concen: 37.475 ng  
RT: 15.12 min Scan# 2216  
Delta R.T. -0.02 min  
Lab File: BF114019.D  
Acq: 29 Apr 2019 12:46

Tgt Ion: 252 Resp: 588016  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.7  | 17.8  | 26.6  |
| 125 | 9.2   | 7.0   | 10.6  |





#89

Benzo(k)fluoranthene

Concen: 42.516 ng

RT: 15.15 min Scan# 2221

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

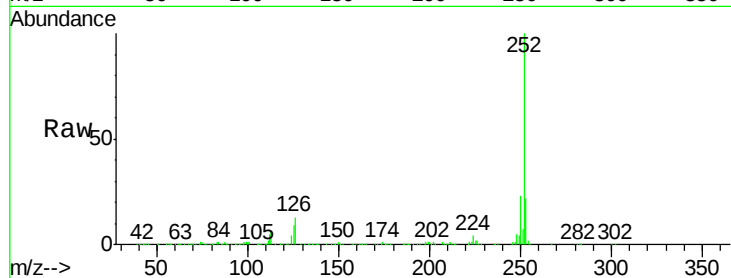
Tgt Ion:252 Resp: 573840

Ion Ratio Lower Upper

252 100

253 22.3 18.2 27.2

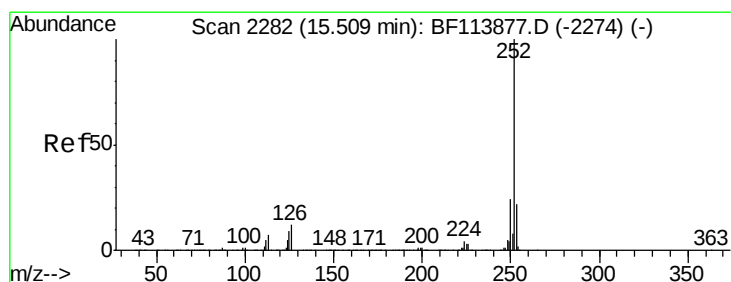
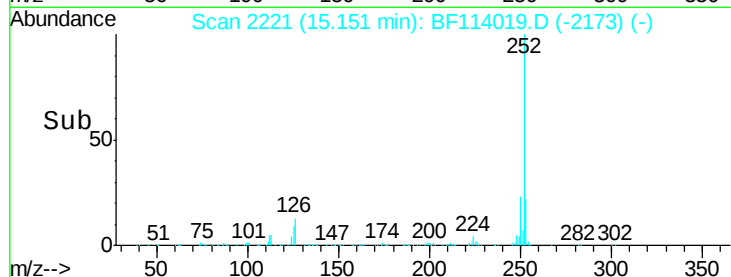
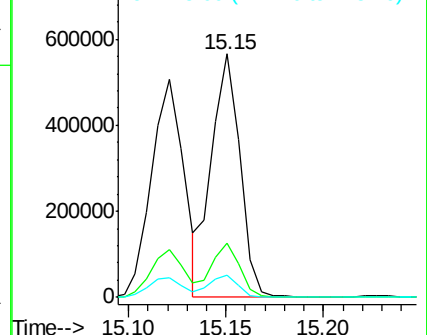
125 9.1 7.4 11.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 42.773 ng

RT: 15.49 min Scan# 2279

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

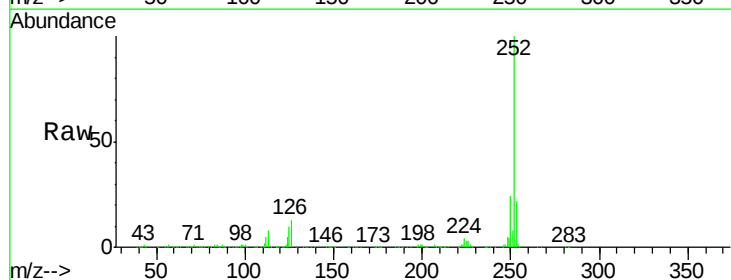
Tgt Ion:252 Resp: 580510

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

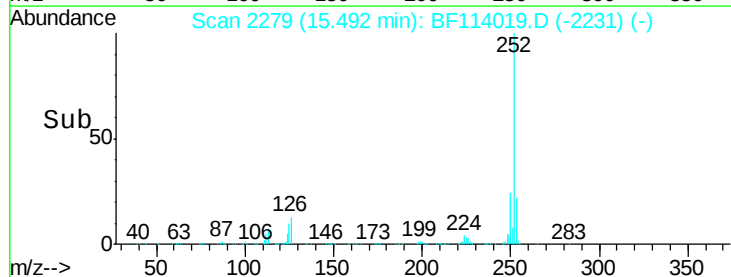
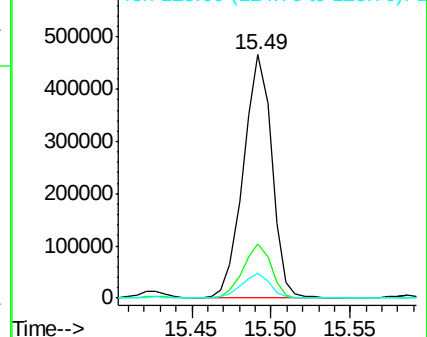
125 10.1 8.5 12.7

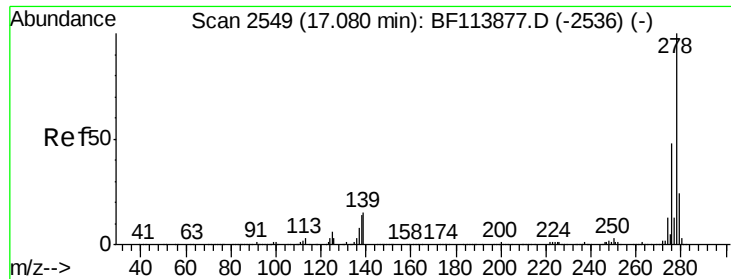


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 49.022 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

Instrument :

BNA\_F

ClientSampleId :

114-PENNINGTONMS

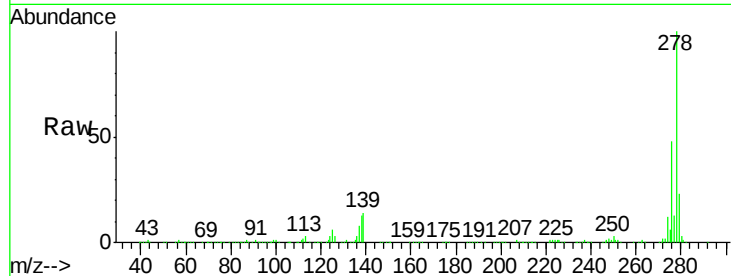
Tgt Ion:278 Resp: 624561

Ion Ratio Lower Upper

278 100

139 13.9 11.6 17.4

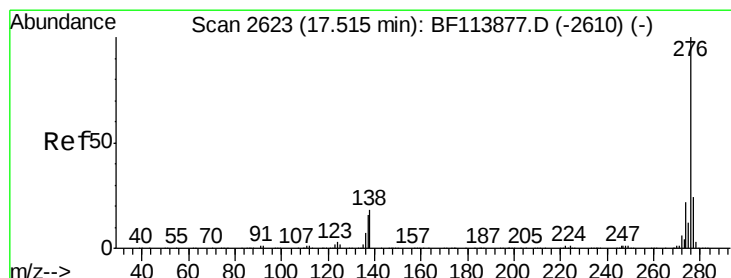
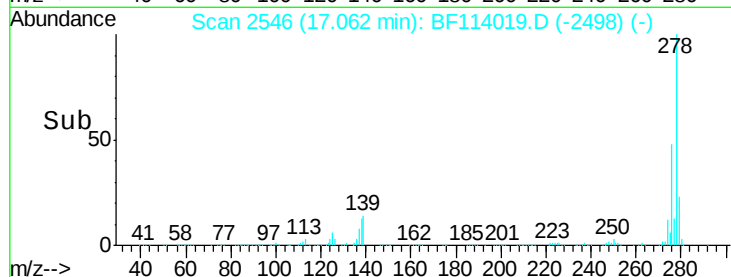
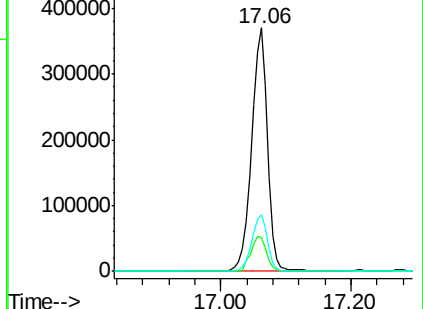
279 23.1 19.0 28.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92

Benzo(g,h,i)perylene

Concen: 49.421 ng

RT: 17.49 min Scan# 2619

Delta R.T. -0.02 min

Lab File: BF114019.D

Acq: 29 Apr 2019 12:46

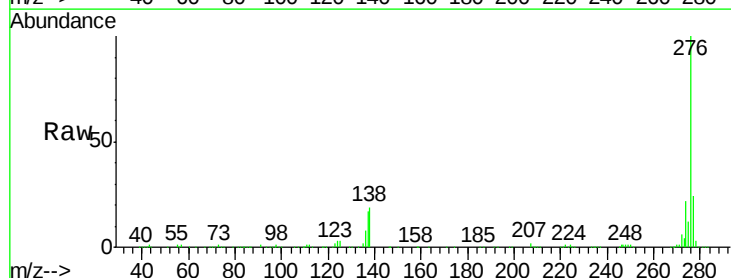
Tgt Ion:276 Resp: 635413

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.4

138 19.0 16.6 25.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

