

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM022019\  
 Data File : BM018889.D  
 Acq On : 20 Feb 2019 18:28  
 Operator : JU/SJ  
 Sample : K1527-01MS  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

Quant Time: Feb 21 00:45:13 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM021119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 11 16:02:12 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.70  | 152  | 309258   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.49 | 136  | 1320229  | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.35 | 164  | 757157   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.10 | 188  | 1692045  | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.30 | 240  | 1582763  | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 23.54 | 264  | 1335162  | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.29  | 112 | 2482472 | 131.52 | ng | -0.01 |
| 7) Phenol-d6             | 6.88  | 99  | 3592515 | 135.11 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 8.87  | 82  | 2339610 | 81.94  | ng | -0.02 |
| 42) 2,4,6-Tribromophenol | 15.85 | 330 | 1421583 | 130.25 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 12.97 | 172 | 4275135 | 74.95  | ng | -0.01 |
| 79) Terphenyl-d14        | 19.74 | 244 | 6439432 | 83.93  | ng | 0.00  |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.25  | 88  | 229727  | 27.944 | ng | 98     |
| 3) Pyridine                    | 3.65  | 79  | 706365  | 31.500 | ng | 99     |
| 4) n-Nitrosodimethylamine      | 3.56  | 42  | 227607  | 39.899 | ng | 93     |
| 6) Aniline                     | 7.05  | 93  | 1156926 | 35.511 | ng | 100    |
| 8) 2-Chlorophenol              | 7.27  | 128 | 807606  | 38.972 | ng | 98     |
| 9) Benzaldehyde                | 6.86  | 77  | 407543  | 25.238 | ng | 99     |
| 10) Phenol                     | 6.90  | 94  | 1157525 | 41.373 | ng | 99     |
| 11) bis(2-Chloroethyl)ether    | 7.14  | 93  | 763861  | 35.791 | ng | 99     |
| 12) 1,3-Dichlorobenzene        | 7.59  | 146 | 807896  | 34.671 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 7.73  | 146 | 827261  | 34.873 | ng | 100    |
| 14) 1,2-Dichlorobenzene        | 8.05  | 146 | 800588  | 35.134 | ng | 98     |
| 15) Benzyl Alcohol             | 7.95  | 79  | 804102  | 38.059 | ng | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.23  | 45  | 749540  | 36.287 | ng | 98     |
| 17) 2-Methylphenol             | 8.15  | 107 | 703797  | 39.524 | ng | 98     |
| 18) Hexachloroethane           | 8.76  | 117 | 306704  | 35.418 | ng | 99     |
| 19) n-Nitroso-di-n-propylamine | 8.51  | 70  | 747381  | 36.302 | ng | 100    |
| 20) 3+4-Methylphenols          | 8.47  | 107 | 962546  | 39.145 | ng | 100    |
| 22) Acetophenone               | 8.53  | 105 | 1231479 | 33.966 | ng | # 100  |
| 24) Nitrobenzene               | 8.91  | 77  | 1067779 | 36.028 | ng | 100    |
| 25) Isophorone                 | 9.43  | 82  | 1874434 | 41.144 | ng | 99     |
| 26) 2-Nitrophenol              | 9.62  | 139 | 432452  | 36.640 | ng | 100    |
| 27) 2,4-Dimethylphenol         | 9.67  | 122 | 735238  | 42.651 | ng | 98     |
| 28) bis(2-Chloroethoxy)methane | 9.91  | 93  | 1098632 | 37.291 | ng | 100    |
| 29) 2,4-Dichlorophenol         | 10.14 | 162 | 765849  | 38.691 | ng | 100    |
| 30) 1,2,4-Trichlorobenzene     | 10.35 | 180 | 789533  | 34.539 | ng | 97     |
| 31) Naphthalene                | 10.54 | 128 | 2460286 | 38.210 | ng | 99     |
| 32) Benzoic acid               | 9.80  | 122 | 255316  | 16.979 | ng | 95     |
| 33) 4-Chloroaniline            | 10.66 | 127 | 705086  | 24.497 | ng | 99     |
| 34) Hexachlorobutadiene        | 10.80 | 225 | 433007  | 32.634 | ng | 99     |
| 35) Caprolactam                | 11.48 | 113 | 211379  | 26.166 | ng | 92     |
| 36) 4-Chloro-3-methylphenol    | 11.79 | 107 | 899622  | 37.696 | ng | 100    |
| 37) 2-Methylnaphthalene        | 12.16 | 142 | 1813303 | 39.999 | ng | 100    |
| 38) 1-Methylnaphthalene        | 12.37 | 142 | 1718254 | 38.760 | ng | 100    |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.52 | 216 | 854942  | 35.298 | ng | 99     |

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 Sample : K1527-01MS  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

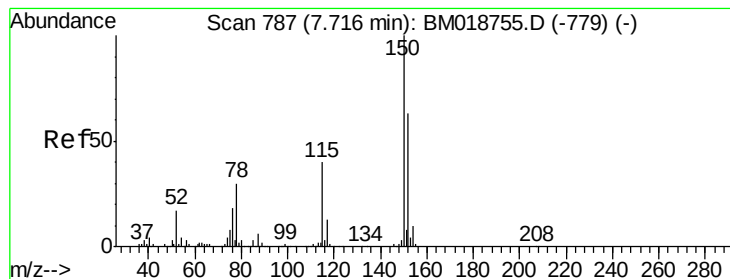
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

Quant Time: Feb 21 00:45:13 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM021119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 11 16:02:12 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.49 | 237  | 843335   | 68.102 | ng    | 98       |
| 43) 2,4,6-Trichlorophenol      | 12.77 | 196  | 613652   | 38.272 | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 12.85 | 196  | 653497   | 38.885 | ng    | 98       |
| 46) 1,1'-Biphenyl              | 13.18 | 154  | 2300141  | 35.292 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.22 | 162  | 1797500  | 35.707 | ng    | 100      |
| 48) 2-Nitroaniline             | 13.45 | 65   | 640100   | 38.286 | ng    | 98       |
| 49) Acenaphthylene             | 14.07 | 152  | 2933857  | 39.141 | ng    | 100      |
| 50) Dimethylphthalate          | 13.82 | 163  | 2529158  | 40.081 | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 13.94 | 165  | 509370   | 37.264 | ng    | 100      |
| 52) Acenaphthene               | 14.42 | 154  | 1684926  | 36.659 | ng    | 100      |
| 53) 3-Nitroaniline             | 14.28 | 138  | 409645   | 26.523 | ng    | 98       |
| 54) 2,4-Dinitrophenol          | 14.49 | 184  | 349389   | 43.143 | ng    | 99       |
| 55) Dibenzofuran               | 14.75 | 168  | 2739820  | 36.267 | ng    | 99       |
| 56) 4-Nitrophenol              | 14.59 | 139  | 847694   | 68.755 | ng    | 99       |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 719063   | 38.180 | ng    | 99       |
| 58) Fluorene                   | 15.40 | 166  | 2265154  | 39.193 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 14.98 | 232  | 586758   | 39.499 | ng    | 99       |
| 60) Diethylphthalate           | 15.18 | 149  | 2361952  | 36.286 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.40 | 204  | 1114457  | 34.393 | ng    | 98       |
| 62) 4-Nitroaniline             | 15.45 | 138  | 489681   | 32.341 | ng    | 98       |
| 63) Azobenzene                 | 15.69 | 77   | 2586676  | 37.063 | ng    | 100      |
| 65) 4,6-Dinitro-2-methylphenol | 15.49 | 198  | 301956   | 25.417 | ng    | 97       |
| 66) n-Nitrosodiphenylamine     | 15.62 | 169  | 1951098  | 36.497 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.30 | 248  | 661772   | 34.941 | ng    | 99       |
| 68) Hexachlorobenzene          | 16.40 | 284  | 770949   | 35.020 | ng    | 99       |
| 69) Atrazine                   | 16.58 | 200  | 648766   | 37.644 | ng    | 100      |
| 70) Pentachlorophenol          | 16.75 | 266  | 979881   | 69.130 | ng    | 100      |
| 71) Phenanthrene               | 17.14 | 178  | 3520535  | 38.716 | ng    | 100      |
| 72) Anthracene                 | 17.24 | 178  | 3562127  | 40.246 | ng    | 99       |
| 73) Carbazole                  | 17.52 | 167  | 3235184  | 34.986 | ng    | 100      |
| 74) Di-n-butylphthalate        | 18.07 | 149  | 4221839  | 39.699 | ng    | 100      |
| 75) Fluoranthene               | 19.17 | 202  | 4041542  | 38.477 | ng    | 99       |
| 77) Benzidine                  | 19.37 | 184  | 2270033  | 63.683 | ng    | 100      |
| 78) Pyrene                     | 19.53 | 202  | 4094615  | 44.543 | ng    | 100      |
| 80) Butylbenzylphthalate       | 20.43 | 149  | 1975742  | 47.161 | ng    | 99       |
| 81) Benzo(a)anthracene         | 21.28 | 228  | 3661700  | 39.688 | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine     | 21.22 | 252  | 1217200  | 33.381 | ng    | 99       |
| 83) Chrysene                   | 21.33 | 228  | 3366351  | 38.067 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phthalate | 21.20 | 149  | 2879428  | 46.960 | ng    | 100      |
| 85) Di-n-octyl phthalate       | 22.09 | 149  | 4561422  | 44.262 | ng    | 100      |
| 86) Indeno(1,2,3-cd)pyrene     | 25.83 | 276  | 3206935  | 31.410 | ng    | 100      |
| 88) Benzo(b)fluoranthene       | 22.87 | 252  | 3155720  | 41.311 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 22.91 | 252  | 3075362  | 40.438 | ng    | 100      |
| 90) Benzo(a)pyrene             | 23.45 | 252  | 2920159  | 40.353 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene     | 25.84 | 278  | 2760157  | 38.498 | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.53 | 276  | 2624277  | 39.317 | ng    | 99       |

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



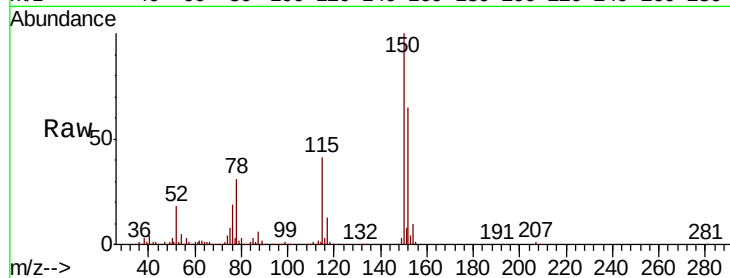


#1

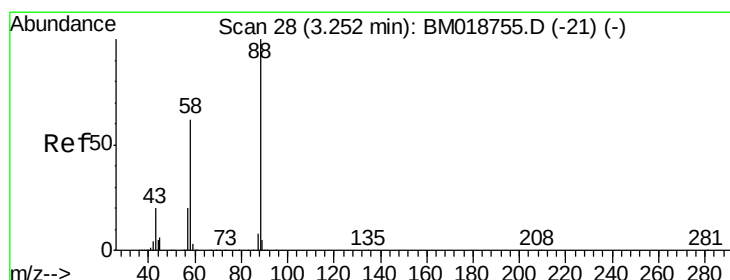
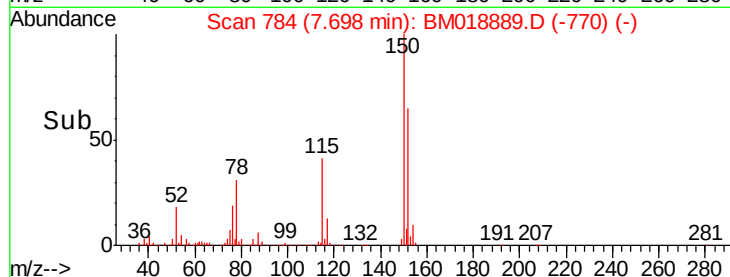
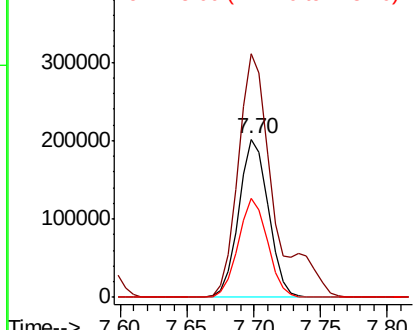
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.70 min Scan# 784  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:152 Resp: 309258  
Ion Ratio Lower Upper  
152 100  
150 154.0 127.3 190.9  
115 62.6 50.8 76.2



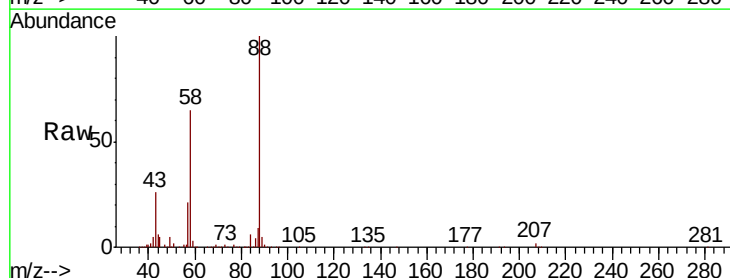
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



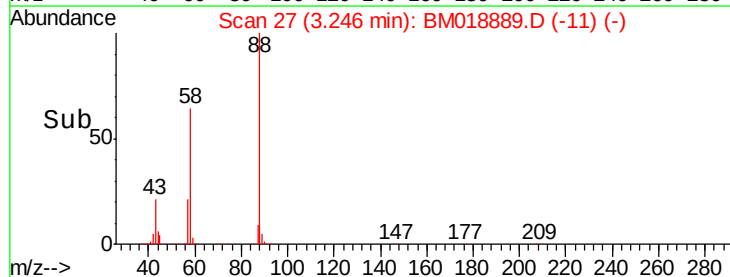
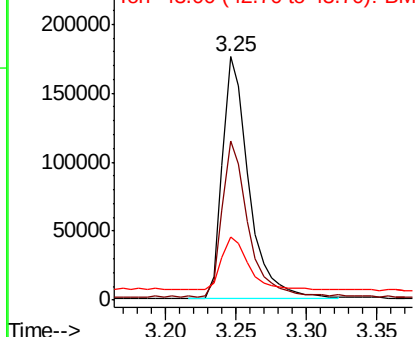
#2

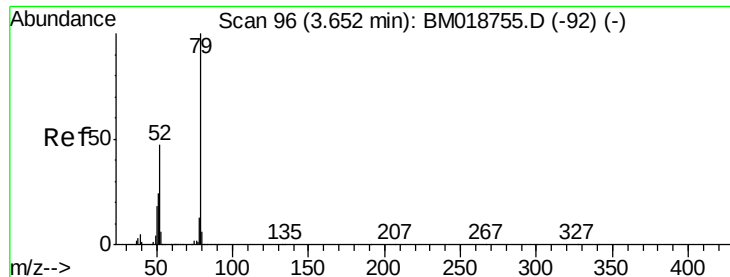
1,4-Dioxane  
Concen: 27.944 ng  
RT: 3.25 min Scan# 27  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion: 88 Resp: 229727  
Ion Ratio Lower Upper  
88 100  
58 63.3 49.8 74.6  
43 22.4 16.7 25.1



Abundance Ion 88.00 (87.70 to 88.70): BM0  
Ion 58.00 (57.70 to 58.70): BM0  
Ion 43.00 (42.70 to 43.70): BM0





#3

Pyridine

Concen: 31.500 ng

RT: 3.65 min Scan# 95

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

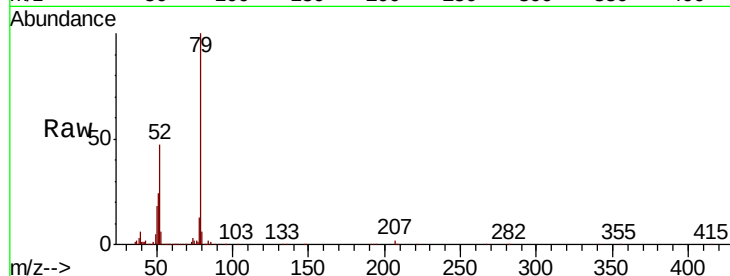
Tgt Ion: 79 Resp: 706365

Ion Ratio Lower Upper

79 100

52 47.4 37.6 56.4

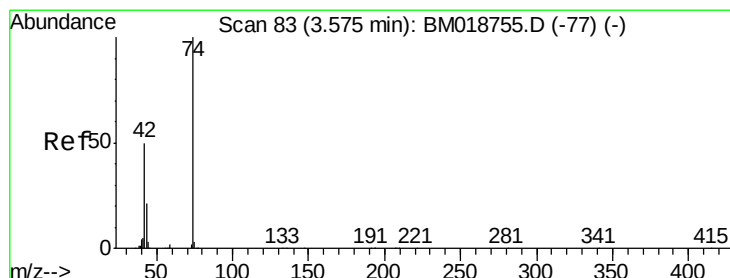
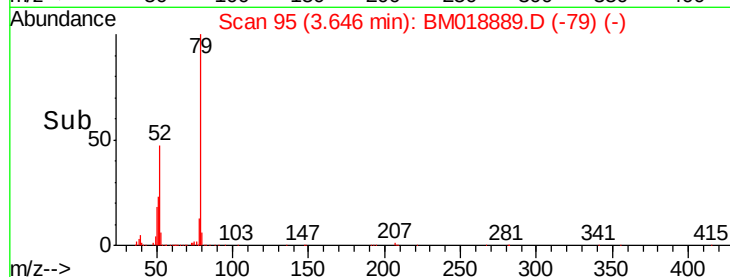
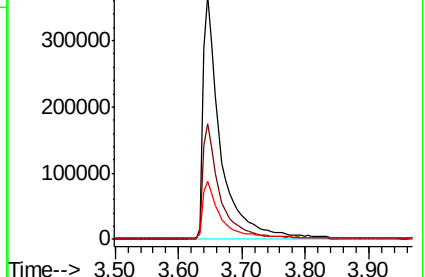
51 23.8 19.7 29.5



Abundance Ion 79.00 (78.70 to 79.70): BM018755.D (-92) (-)

Ion 52.00 (51.70 to 52.70): BM018755.D (-92) (-)

Ion 51.00 (50.70 to 51.70): BM018755.D (-92) (-)



#4

n-Nitrosodimethylamine

Concen: 39.899 ng

RT: 3.56 min Scan# 81

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

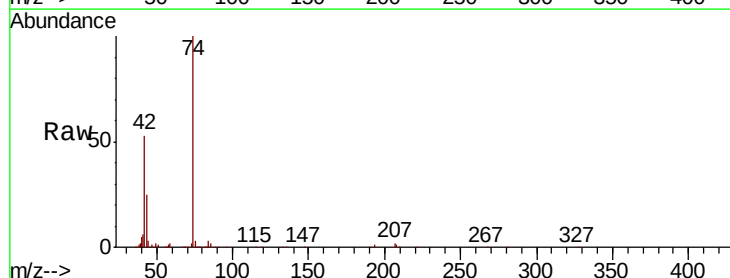
Tgt Ion: 42 Resp: 227607

Ion Ratio Lower Upper

42 100

74 187.3 158.1 237.1

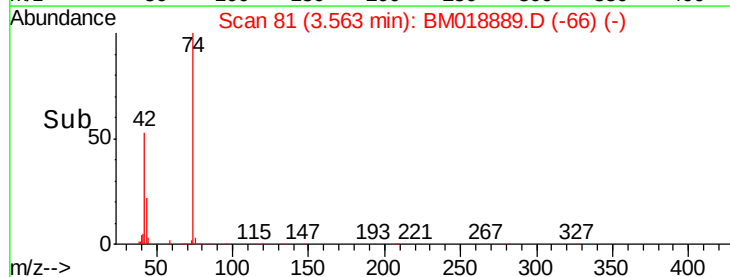
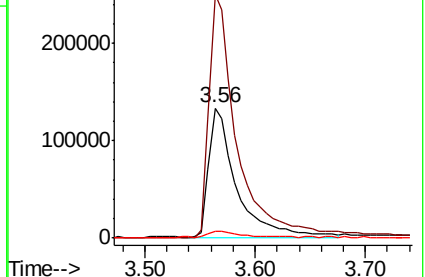
44 5.7 4.9 7.3

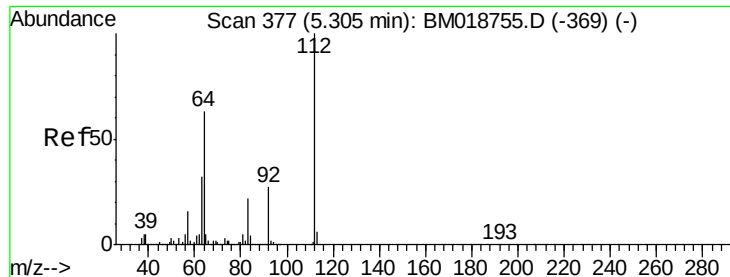


Abundance Ion 42.00 (41.70 to 42.70): BM018755.D (-77) (-)

Ion 74.00 (73.70 to 74.70): BM018755.D (-77) (-)

Ion 44.00 (43.70 to 44.70): BM018755.D (-77) (-)





#5

2-Fluorophenol

Concen: 131.523 ng

RT: 5.29 min Scan# 375

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

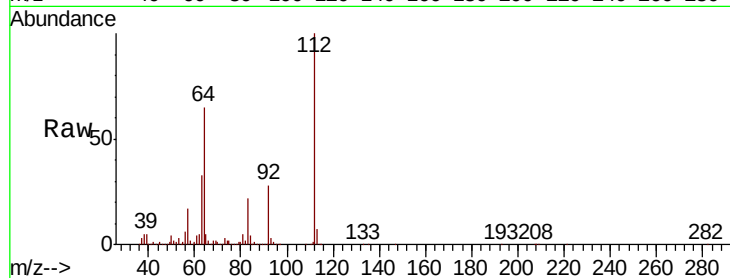
Tgt Ion:112 Resp: 2482472

Ion Ratio Lower Upper

112 100

64 64.8 50.6 75.8

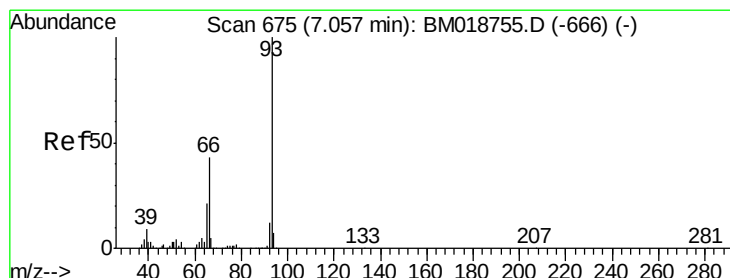
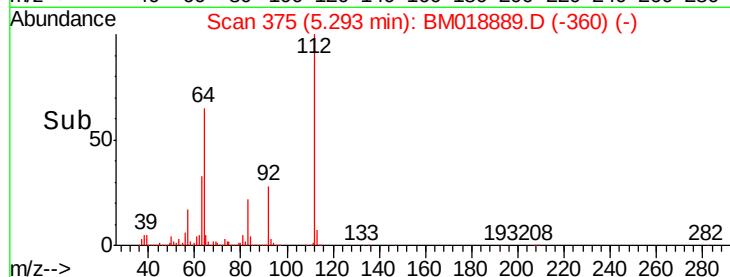
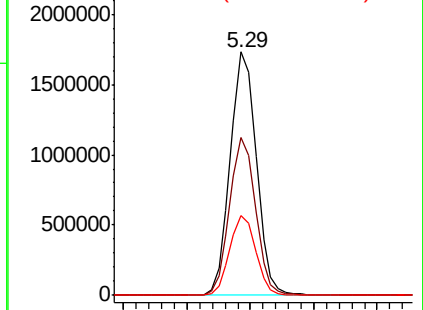
63 33.0 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#6

Aniline

Concen: 35.511 ng

RT: 7.05 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

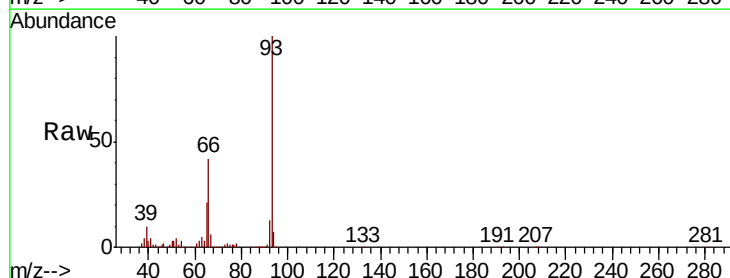
Tgt Ion: 93 Resp: 1156926

Ion Ratio Lower Upper

93 100

66 42.5 34.1 51.1

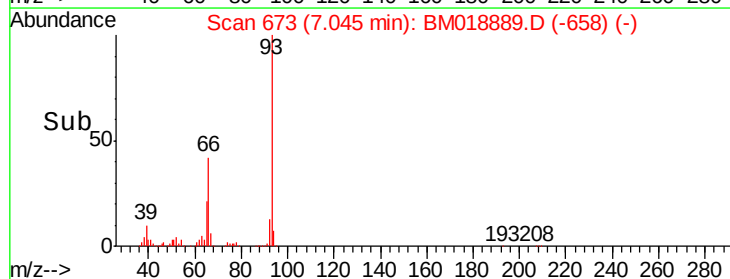
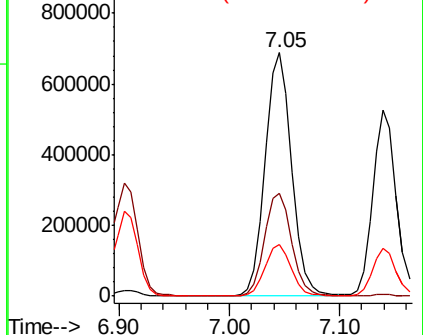
65 21.0 16.6 24.8

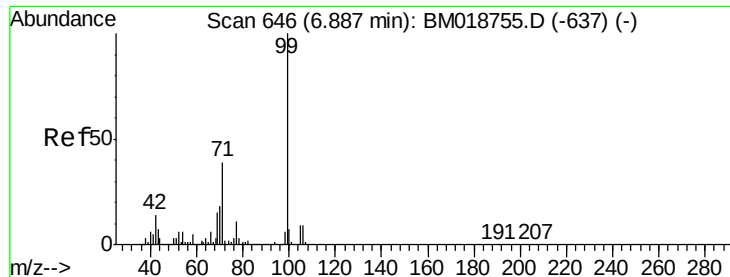


Abundance Ion 93.00 (92.70 to 93.70): BM

Ion 66.00 (65.70 to 66.70): BM

Ion 65.00 (64.70 to 65.70): BM





#7

Phenol-d6

Concen: 135.108 ng

RT: 6.88 min Scan# 645

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

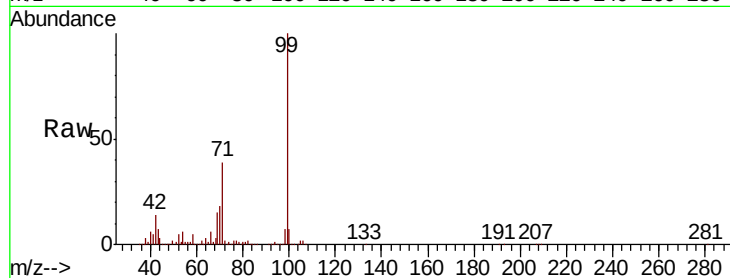
Tgt Ion: 99 Resp: 3592515

Ion Ratio Lower Upper

99 100

42 13.9 11.0 16.6

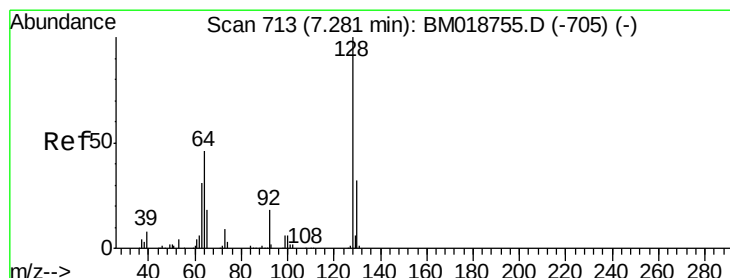
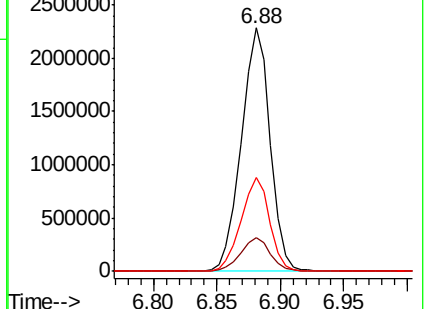
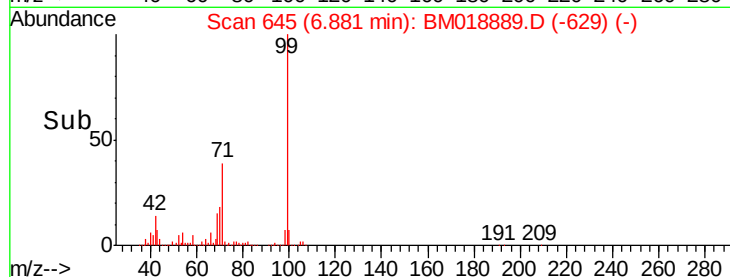
71 38.5 31.3 46.9



Abundance Ion 99.00 (98.70 to 99.70): BM018889.D (-629) (-)

Ion 42.00 (41.70 to 42.70): BM018889.D (-629) (-)

Ion 71.00 (70.70 to 71.70): BM018889.D (-629) (-)



#8

2-Chlorophenol

Concen: 38.972 ng

RT: 7.27 min Scan# 711

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

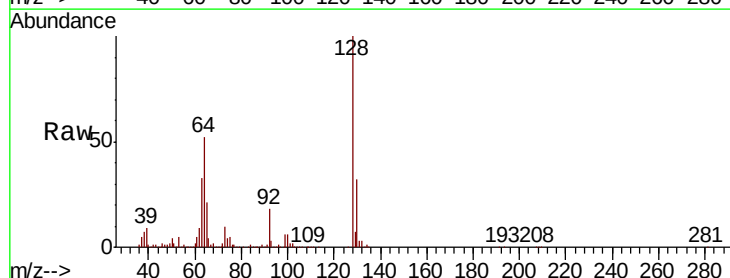
Tgt Ion: 128 Resp: 807606

Ion Ratio Lower Upper

128 100

130 32.1 11.7 51.7

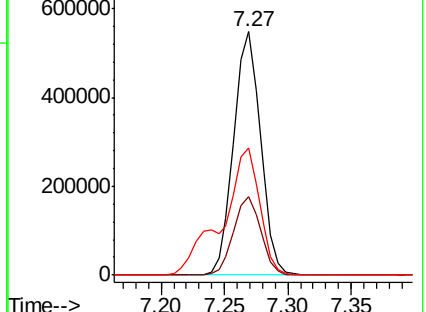
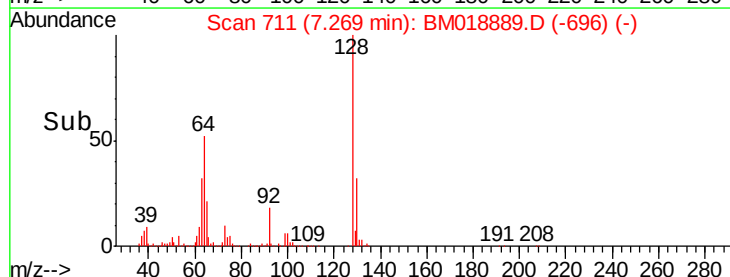
64 52.4 31.0 71.0



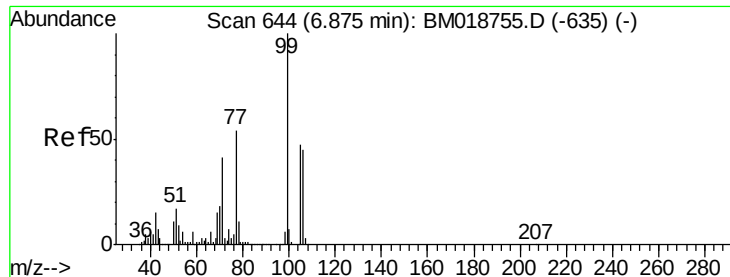
Abundance Ion 128.00 (127.70 to 128.70): BM018889.D (-696) (-)

Ion 130.00 (129.70 to 130.70): BM018889.D (-696) (-)

Ion 64.00 (63.70 to 64.70): BM018889.D (-696) (-)







#9

Benzaldehyde

Concen: 25.238 ng

RT: 6.86 min Scan# 641

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

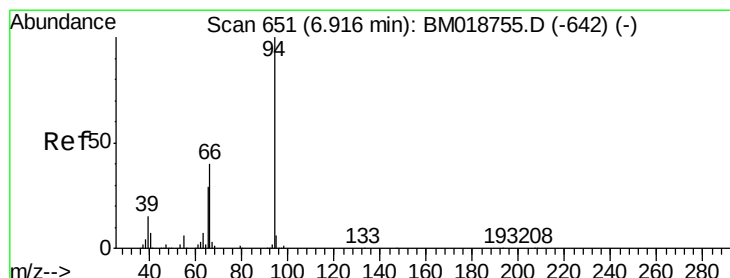
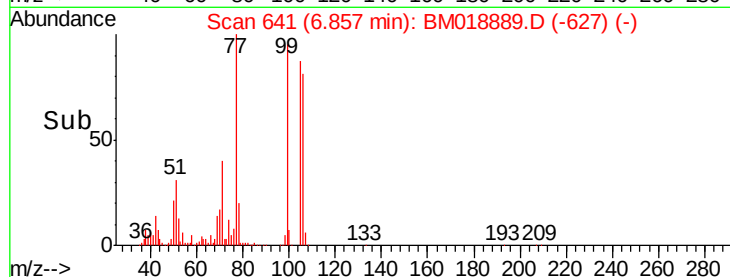
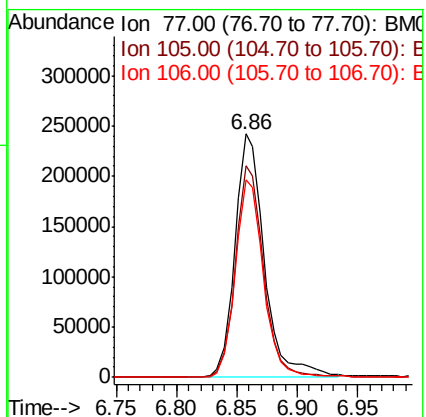
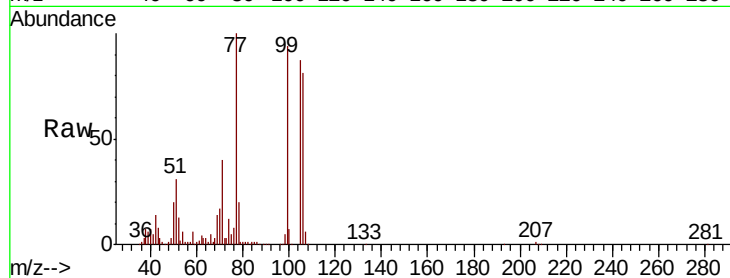
Tgt Ion: 77 Resp: 407543

Ion Ratio Lower Upper

77 100

105 87.1 67.3 107.3

106 81.2 62.9 102.9



#10

Phenol

Concen: 41.373 ng

RT: 6.90 min Scan# 649

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

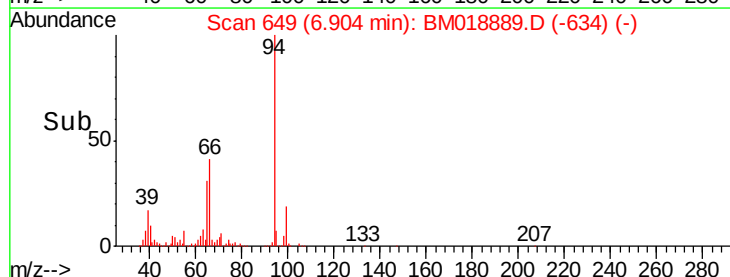
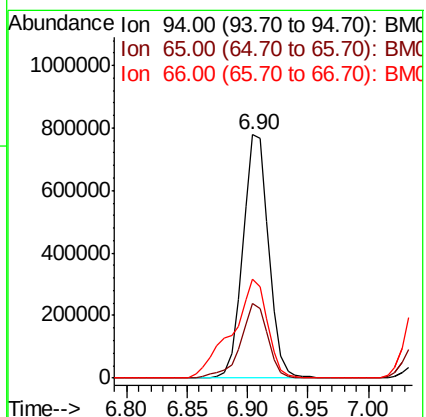
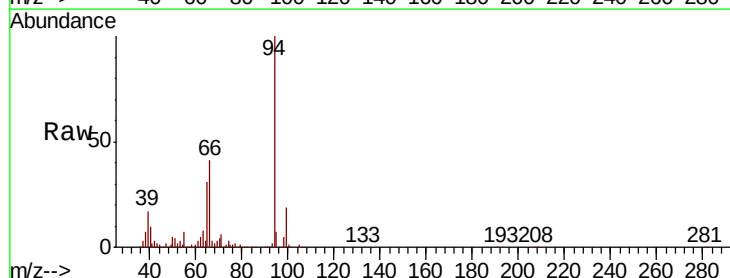
Tgt Ion: 94 Resp: 1157525

Ion Ratio Lower Upper

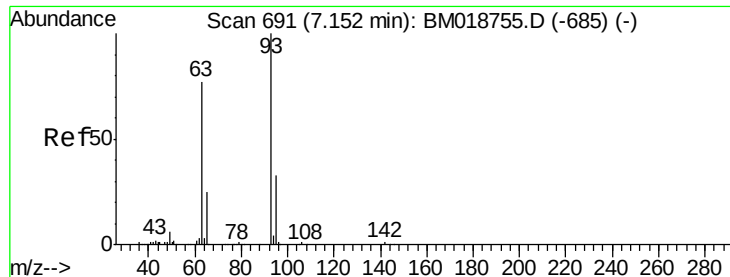
94 100

65 30.8 9.6 49.6

66 40.9 20.4 60.4



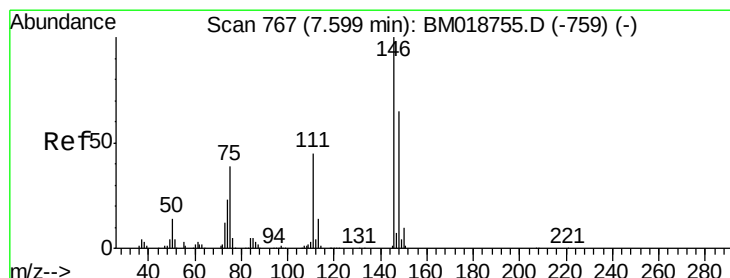
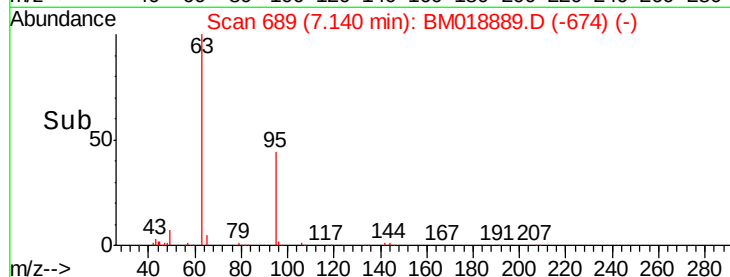
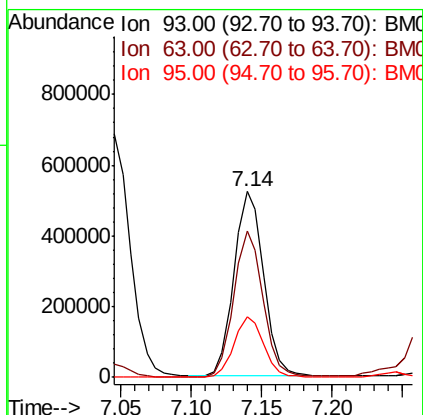
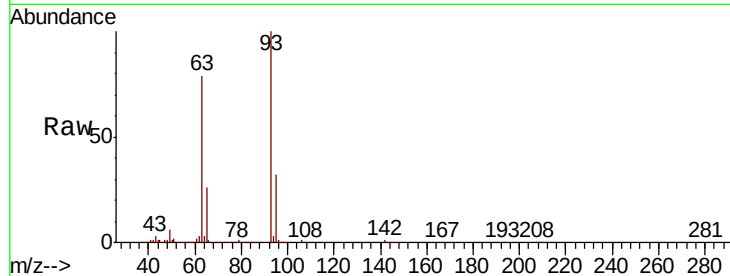




#11  
bis(2-Chloroethyl)ether  
Concen: 35.791 ng  
RT: 7.14 min Scan# 689  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

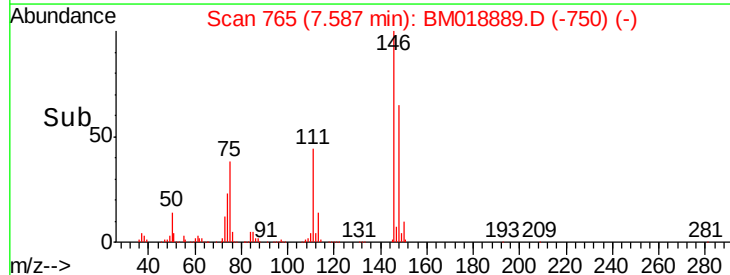
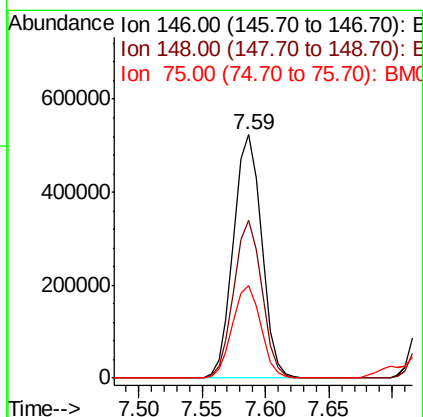
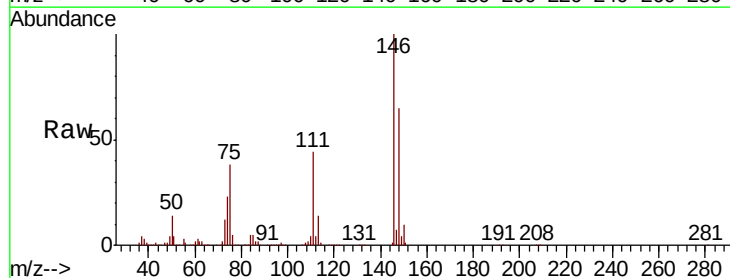
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

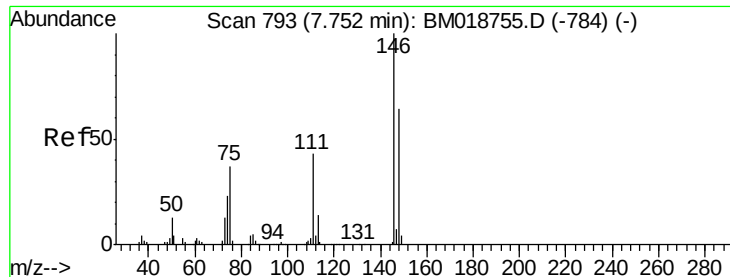
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 763861 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 78.6  | 57.0  | 97.0   |
| 95       | 32.4  | 12.4  | 52.4   |



#12  
1,3-Dichlorobenzene  
Concen: 34.671 ng  
RT: 7.59 min Scan# 765  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 807896 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 148      | 64.8  | 51.7  | 77.5   |
| 75       | 37.8  | 31.3  | 46.9   |

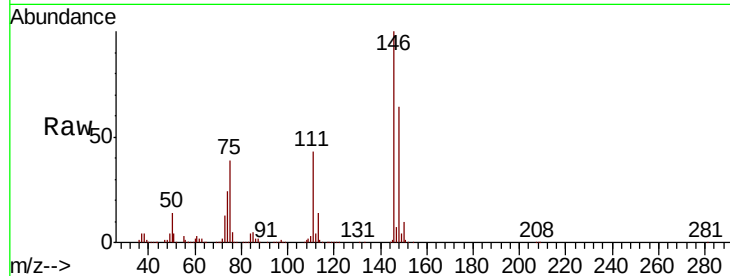




#13  
 1,4-Dichlorobenzene  
 Concen: 34.873 ng  
 RT: 7.73 min Scan# 790  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.2  | 51.4  | 77.2  |
| 111     | 42.8  | 34.6  | 52.0  |

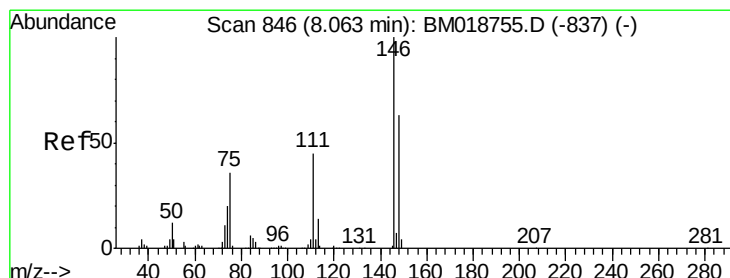
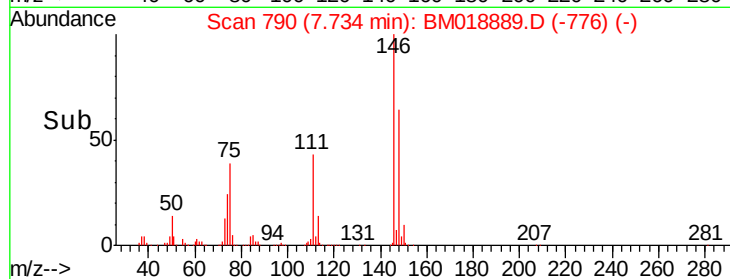
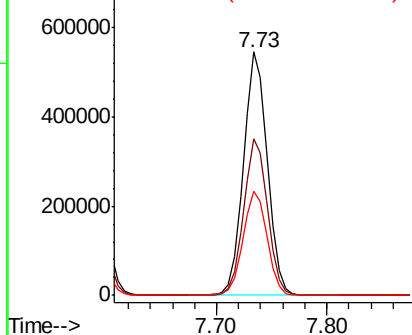


Abundance

Ion 146.00 (145.70 to 146.70): E

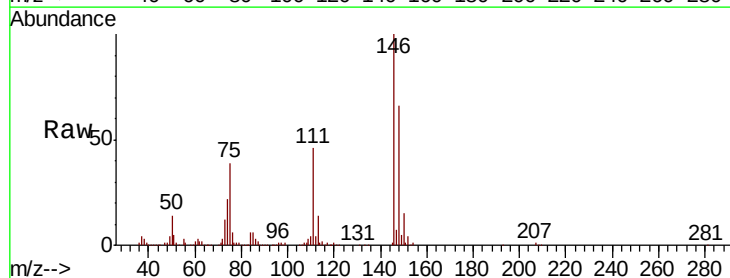
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14  
 1,2-Dichlorobenzene  
 Concen: 35.134 ng  
 RT: 8.05 min Scan# 843  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 65.5  | 50.7  | 76.1  |
| 111     | 46.0  | 35.9  | 53.9  |

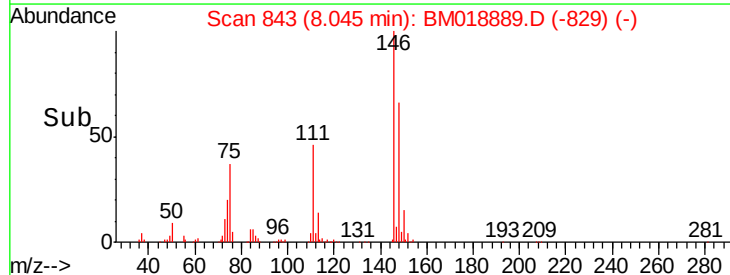
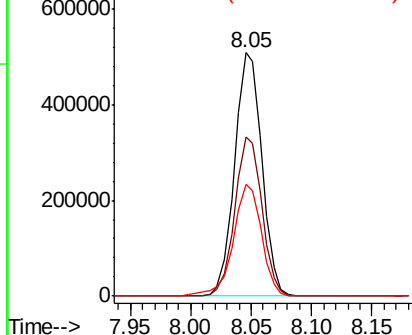


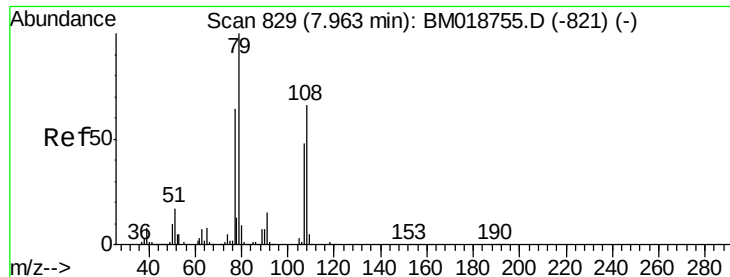
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 38.059 ng

RT: 7.95 min Scan# 827

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

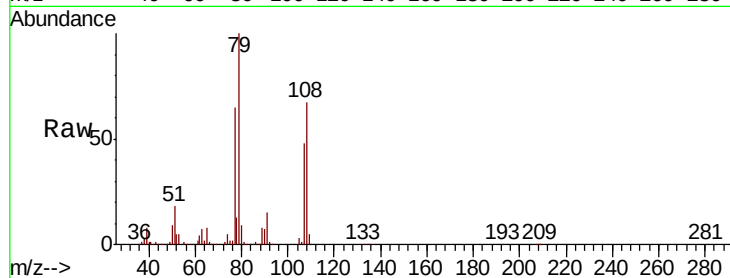
Tgt Ion: 79 Resp: 804102

Ion Ratio Lower Upper

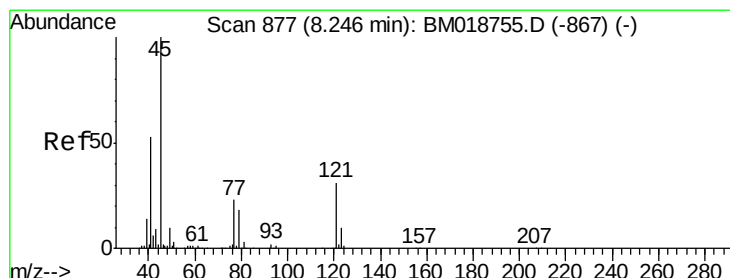
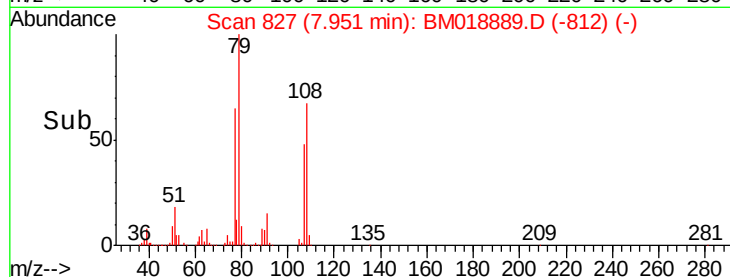
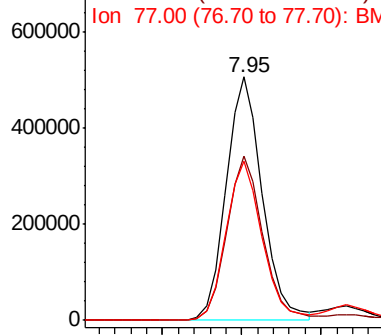
79 100

108 67.2 52.7 79.1

77 65.4 51.0 76.4



Abundance Ion 79.00 (78.70 to 79.70): BM018889.D (-812) (-)



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.287 ng

RT: 8.23 min Scan# 875

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

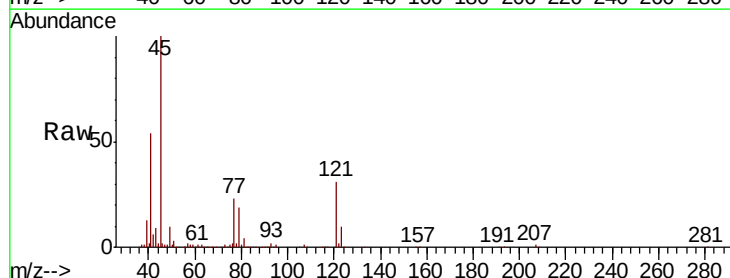
Tgt Ion: 45 Resp: 749540

Ion Ratio Lower Upper

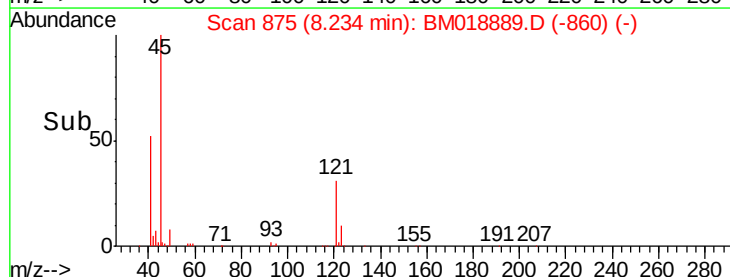
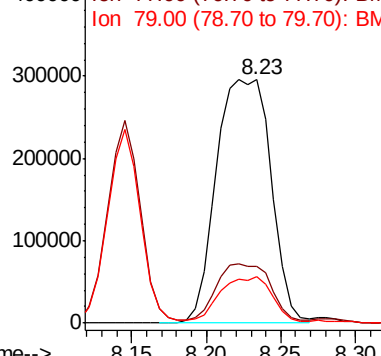
45 100

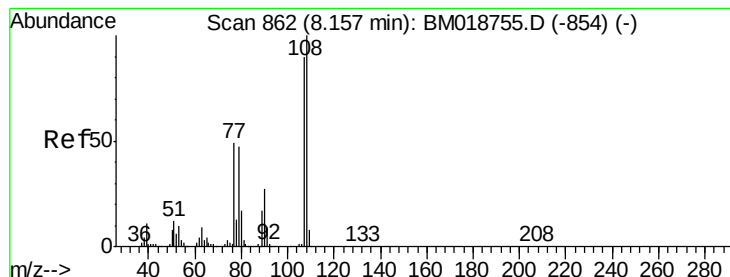
77 23.4 5.0 45.0

79 19.0 0.0 39.3



Abundance Ion 45.00 (44.70 to 45.70): BM018889.D (-860) (-)





#17

2-Methylphenol

Concen: 39.524 ng

RT: 8.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

Tgt Ion:107 Resp: 703797

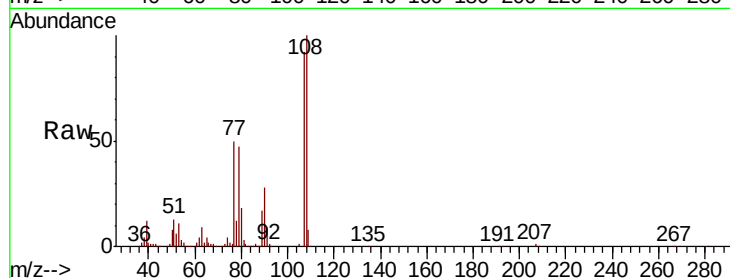
Ion Ratio Lower Upper

107 100

108 108.8 88.8 133.2

77 54.0 44.0 66.0

79 51.7 42.4 63.6

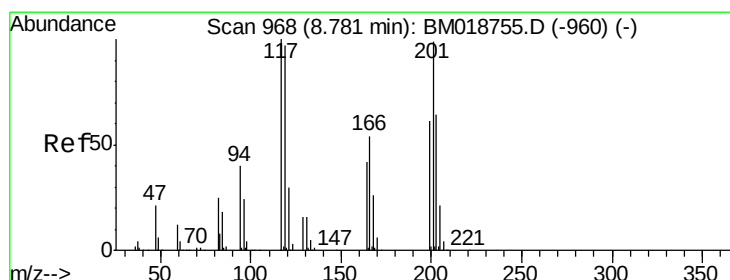
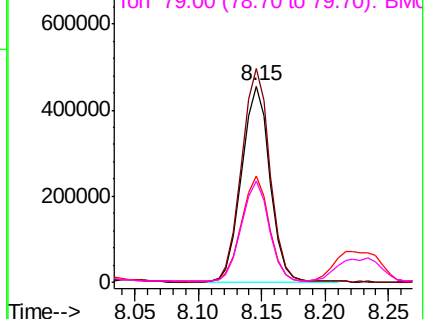
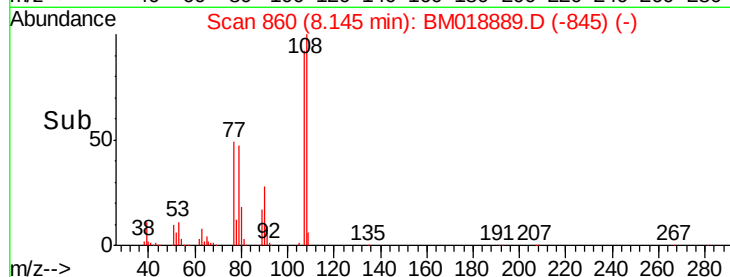


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BM

Ion 79.00 (78.70 to 79.70): BM



#18

Hexachloroethane

Concen: 35.418 ng

RT: 8.76 min Scan# 965

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

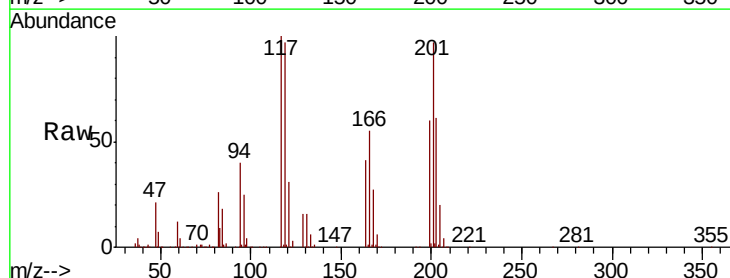
Tgt Ion:117 Resp: 306704

Ion Ratio Lower Upper

117 100

119 96.6 77.9 116.9

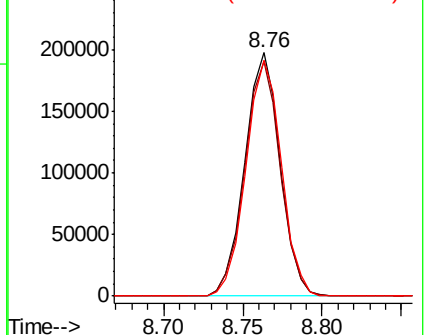
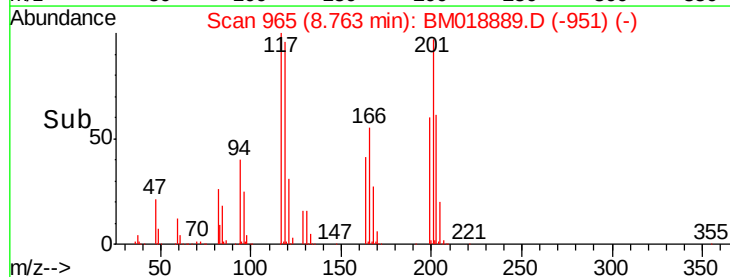
201 97.2 79.2 118.8

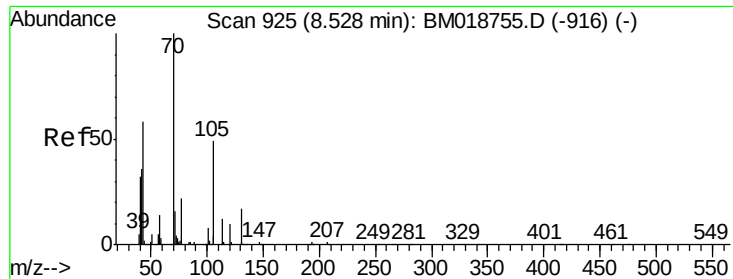


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

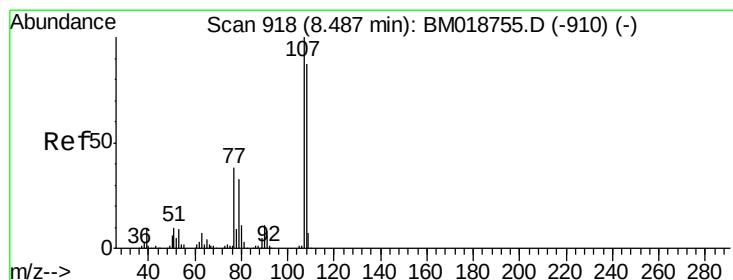
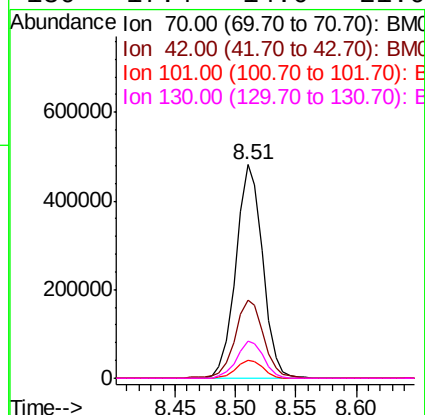
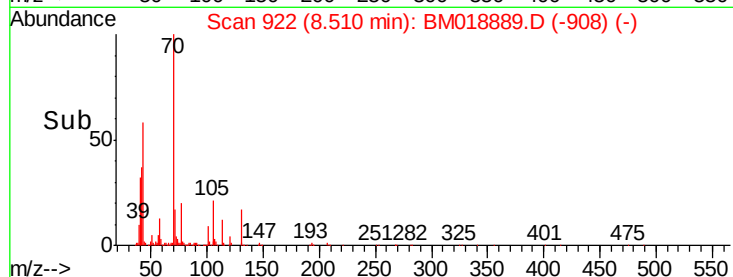
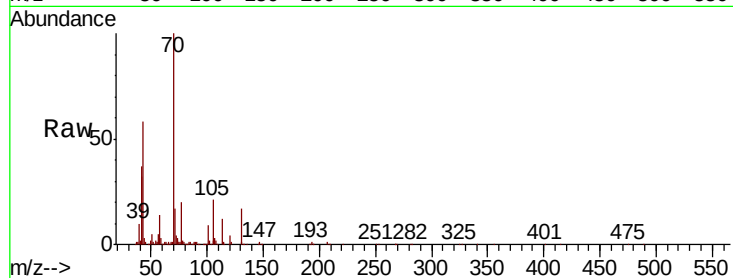




#19  
n-Nitroso-di-n-propylamine  
Concen: 36.302 ng  
RT: 8.51 min Scan# 922  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

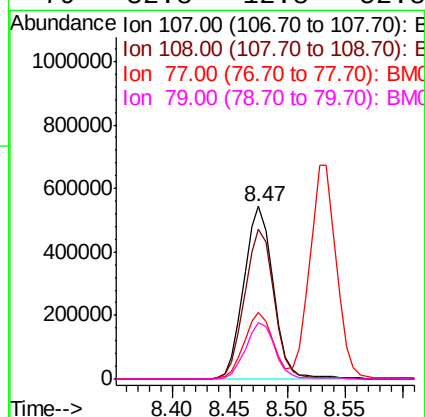
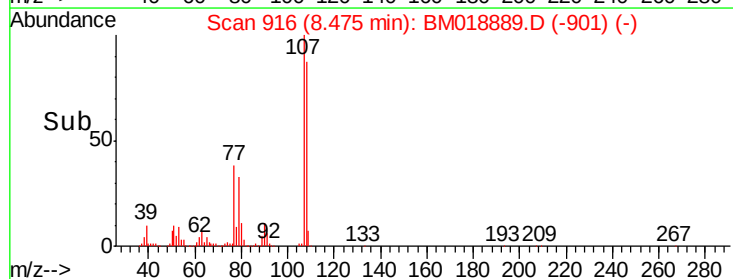
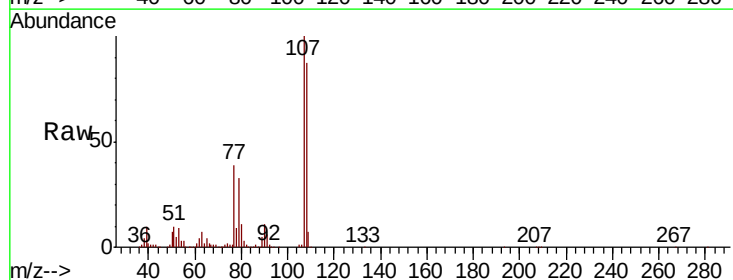
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

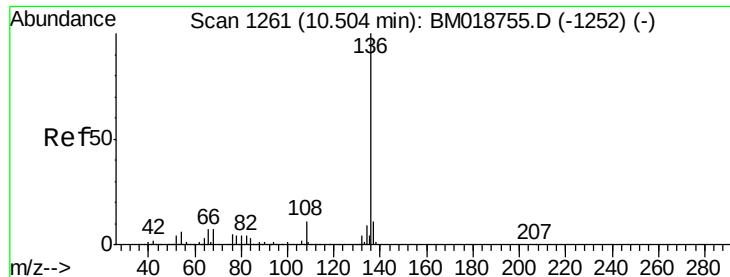
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 747381 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 36.7  | 29.4  | 44.0   |
| 101      | 8.6   | 6.7   | 10.1   |
| 130      | 17.4  | 14.0  | 21.0   |



#20  
3+4-Methylphenols  
Concen: 39.145 ng  
RT: 8.47 min Scan# 916  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 962546 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 87.1  | 67.3  | 107.3  |
| 77       | 38.5  | 18.0  | 58.0   |
| 79       | 32.8  | 12.8  | 52.8   |

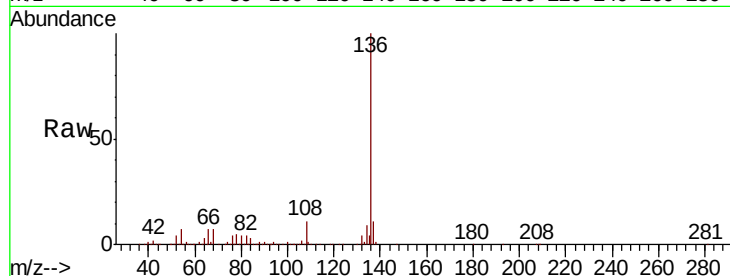




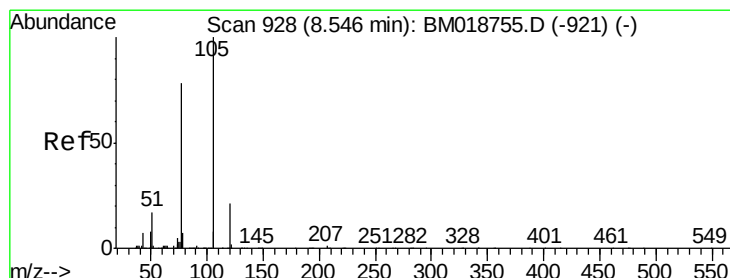
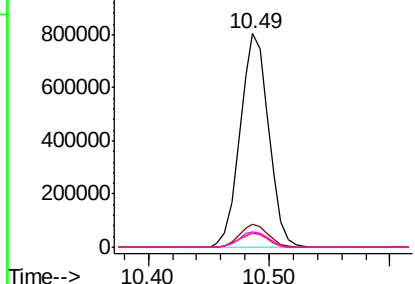
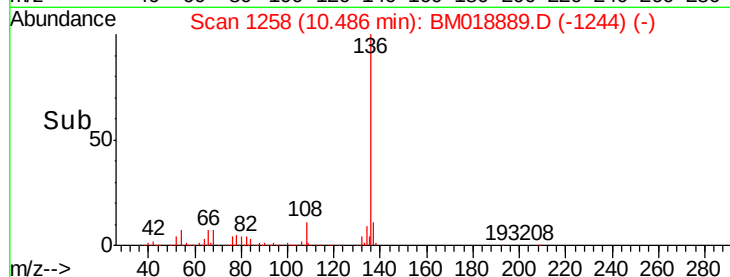
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.49 min Scan# 1258  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:136 Resp: 1320229  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 6.9 5.0 7.6  
68 7.4 5.5 8.3

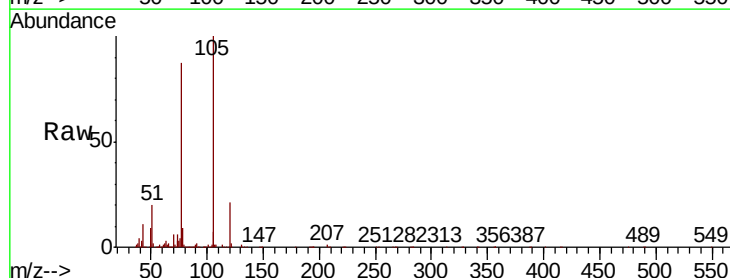


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BM0  
Ion 68.00 (67.70 to 68.70): BM0

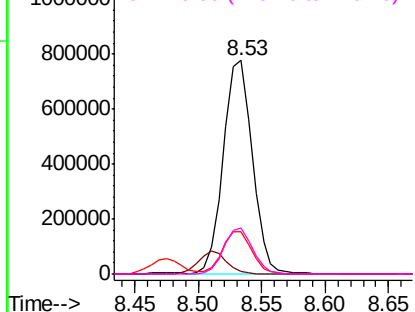
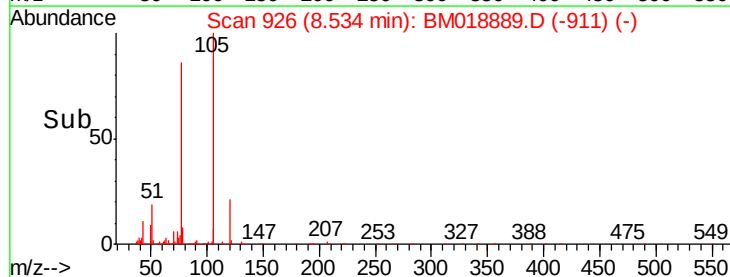


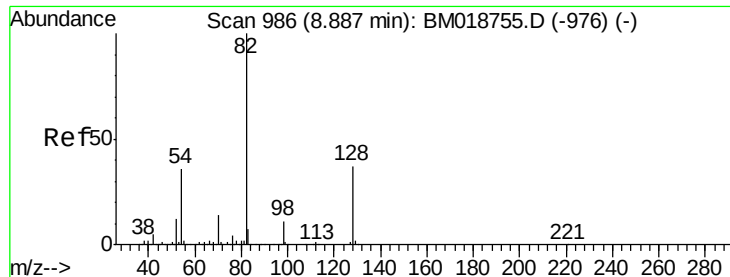
#22  
Acetophenone  
Concen: 33.966 ng  
RT: 8.53 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:105 Resp: 1231479  
Ion Ratio Lower Upper  
105 100  
71 1.0 1.1 1.7#  
51 19.6 15.5 23.3  
120 21.3 17.0 25.4



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BM0  
Ion 51.00 (50.70 to 51.70): BM0  
Ion 120.00 (119.70 to 120.70): E





#23

Nitrobenzene-d5

Concen: 81.941 ng

RT: 8.87 min Scan# 983

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

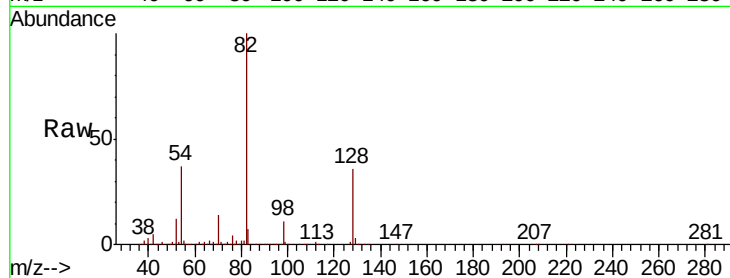
Tgt Ion: 82 Resp: 2339610

Ion Ratio Lower Upper

82 100

128 36.3 29.9 44.9

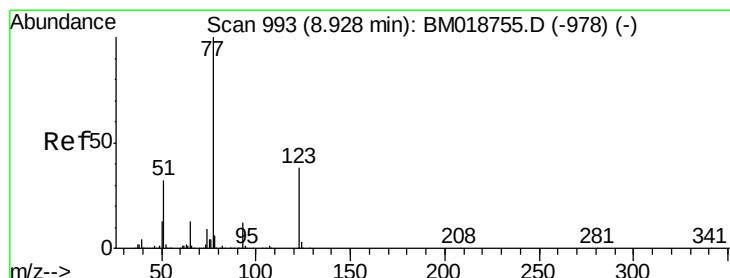
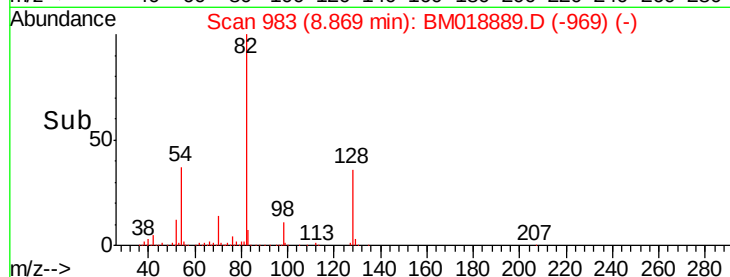
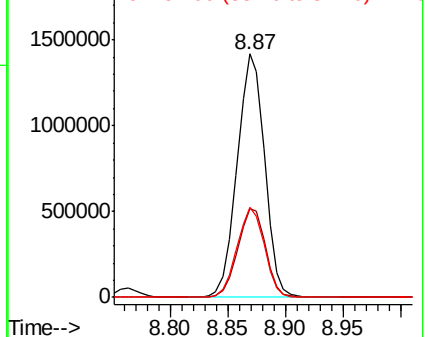
54 37.0 29.1 43.7



Abundance Ion 82.00 (81.70 to 82.70): BM018889.D (-969) (-)

Ion 128.00 (127.70 to 128.70): BM018889.D (-969) (-)

Ion 54.00 (53.70 to 54.70): BM018889.D (-969) (-)



#24

Nitrobenzene

Concen: 36.028 ng

RT: 8.91 min Scan# 990

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

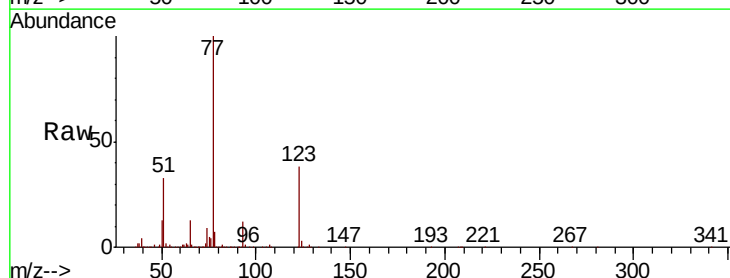
Tgt Ion: 77 Resp: 1067779

Ion Ratio Lower Upper

77 100

123 38.3 30.7 46.1

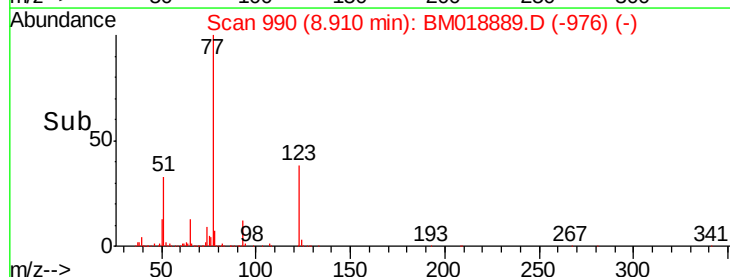
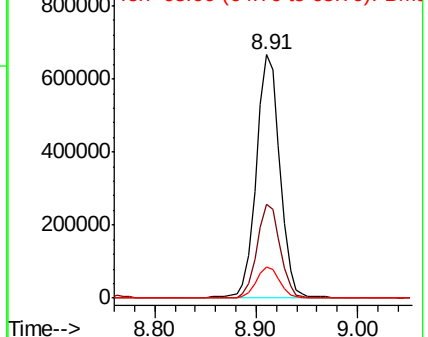
65 12.9 10.5 15.7



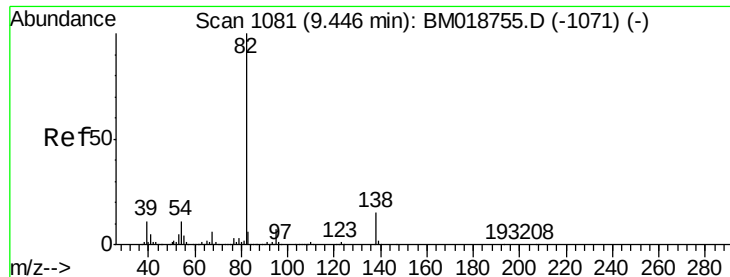
Abundance Ion 77.00 (76.70 to 77.70): BM018889.D (-976) (-)

Ion 123.00 (122.70 to 123.70): BM018889.D (-976) (-)

Ion 65.00 (64.70 to 65.70): BM018889.D (-976) (-)



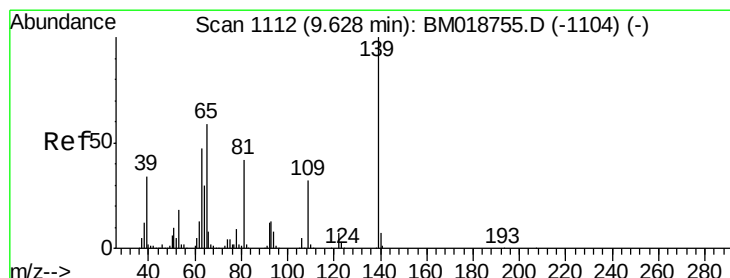
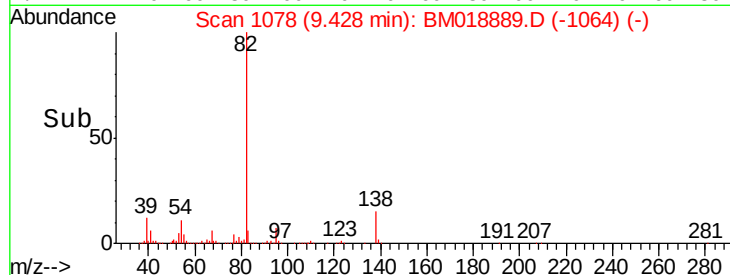
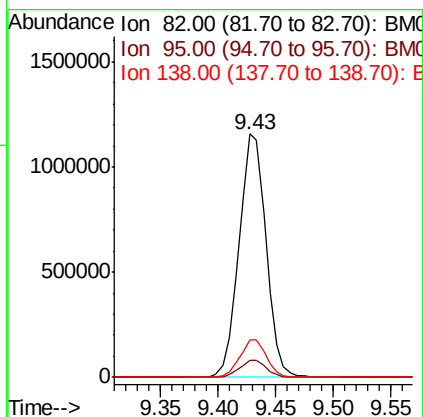
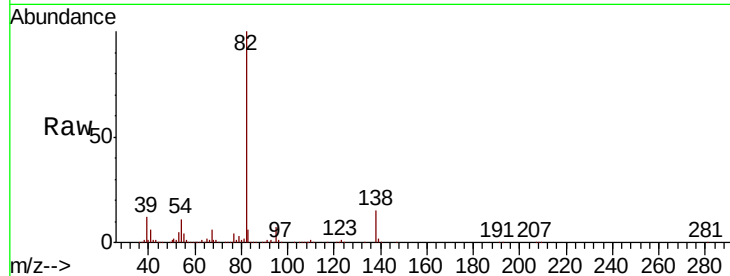




#25  
Isophorone  
Concen: 41.144 ng  
RT: 9.43 min Scan# 1078  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

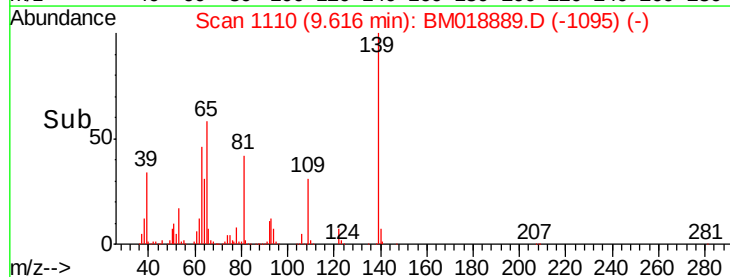
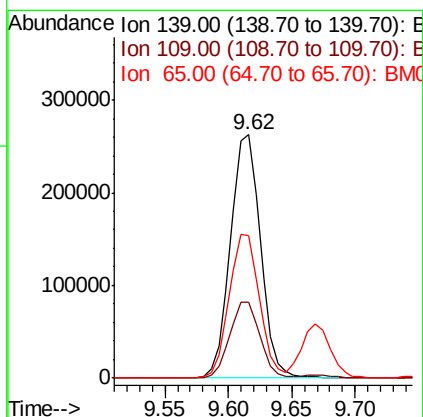
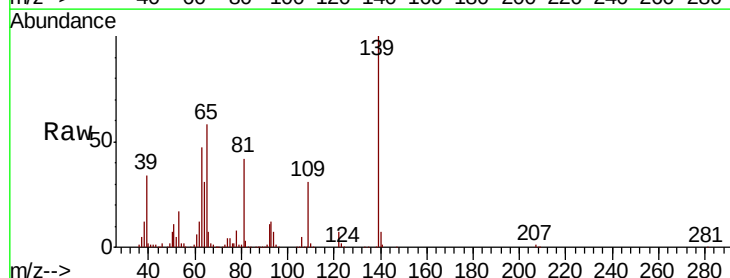
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

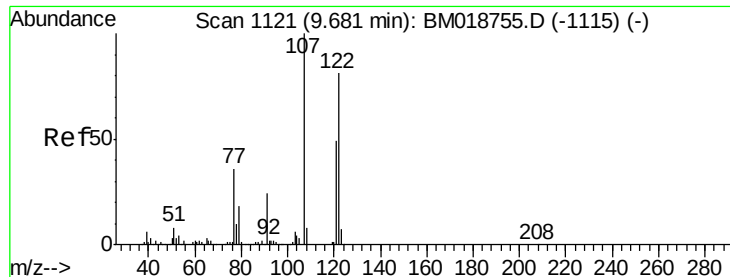
Tgt Ion: 82 Resp: 1874434  
Ion Ratio Lower Upper  
82 100  
95 6.9 5.7 8.5  
138 15.2 12.3 18.5



#26  
2-Nitrophenol  
Concen: 36.640 ng  
RT: 9.62 min Scan# 1110  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion: 139 Resp: 432452  
Ion Ratio Lower Upper  
139 100  
109 31.2 25.2 37.8  
65 58.5 47.0 70.4

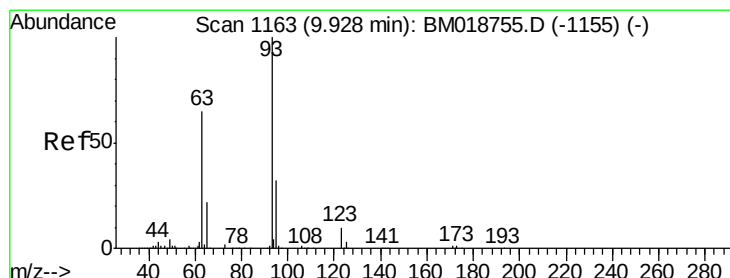
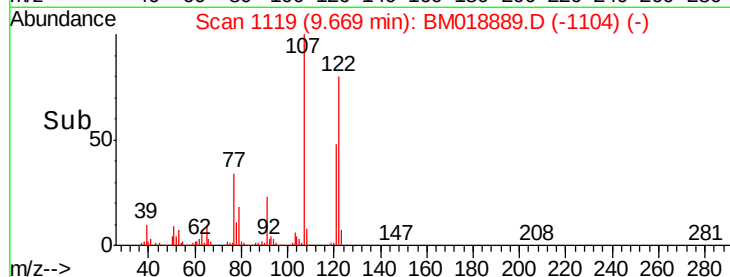
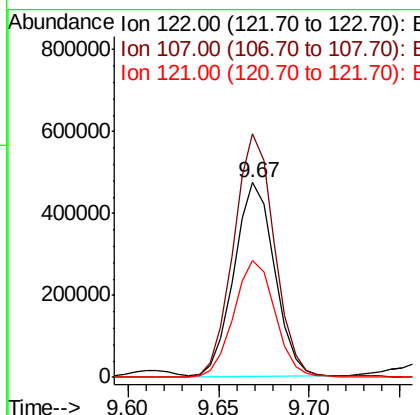
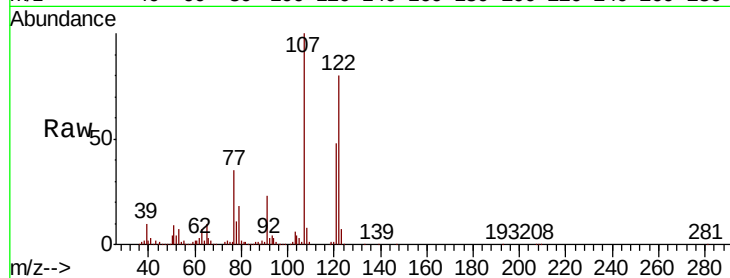




#27  
 2,4-Dimethylphenol  
 Concen: 42.651 ng  
 RT: 9.67 min Scan# 1119  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

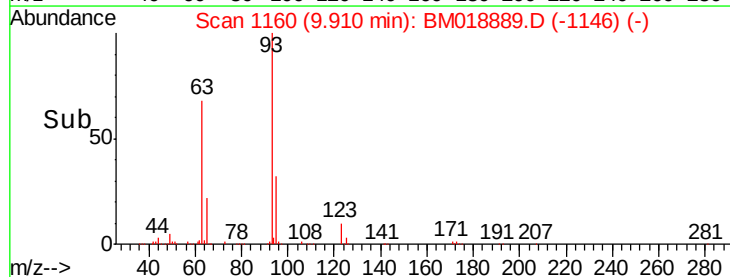
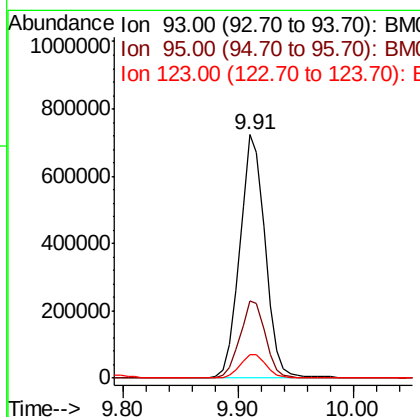
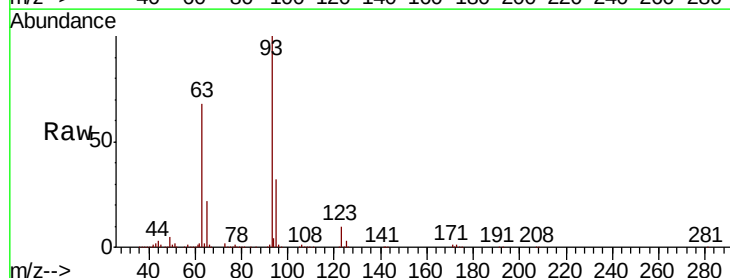
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

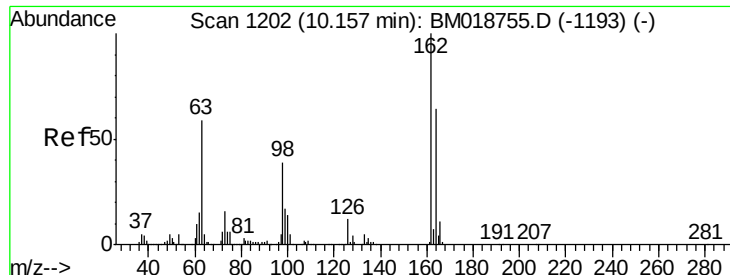
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 125.2 | 97.6  | 146.4 |
| 121     | 60.0  | 47.9  | 71.9  |



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 37.291 ng  
 RT: 9.91 min Scan# 1160  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 31.8  | 25.6  | 38.4  |
| 123     | 9.9   | 8.2   | 12.4  |

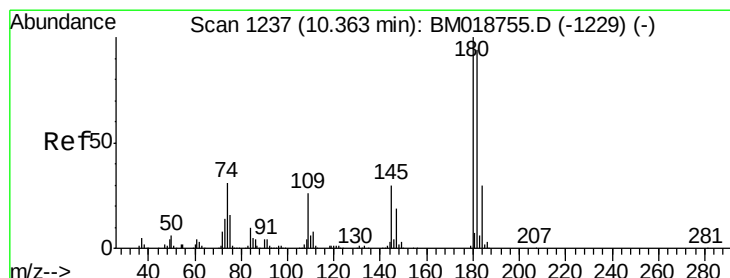
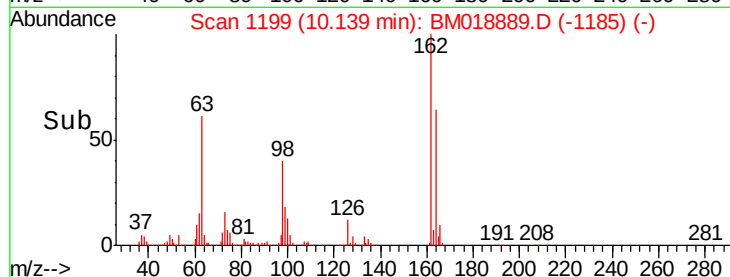
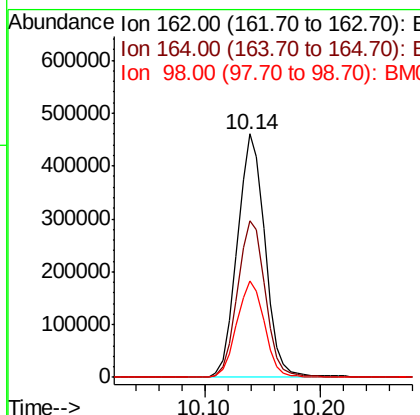
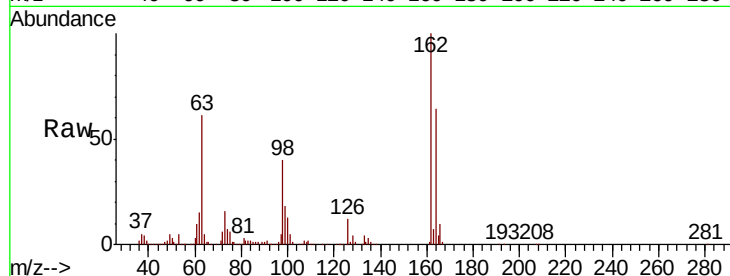




#29  
 2,4-Dichlorophenol  
 Concen: 38.691 ng  
 RT: 10.14 min Scan# 1199  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

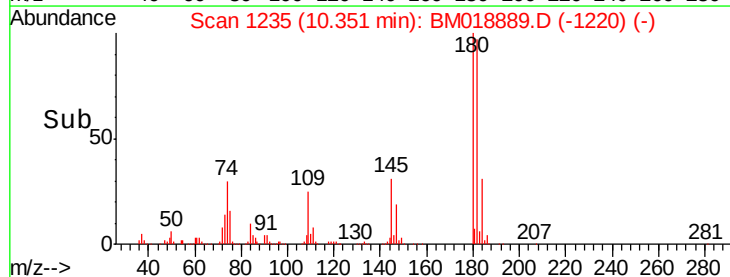
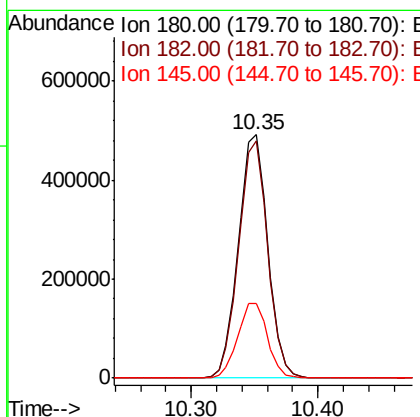
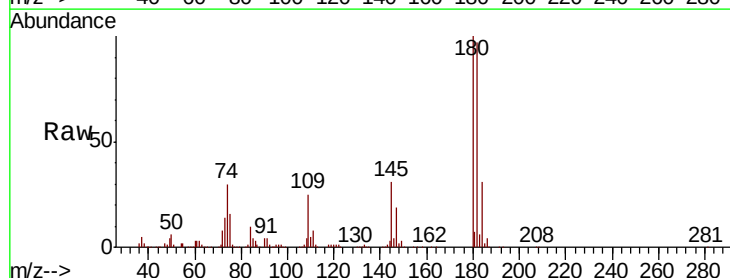
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

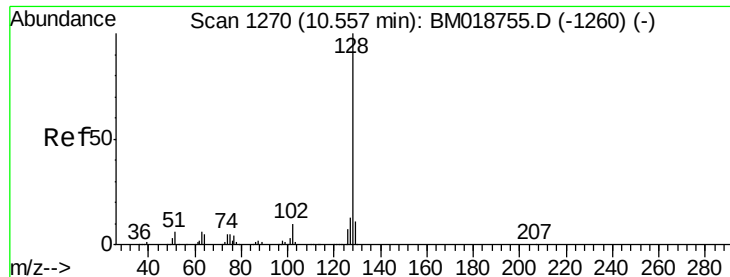
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.2  | 44.1  | 84.1  |
| 98      | 39.5  | 19.4  | 59.4  |



#30  
 1,2,4-Trichlorobenzene  
 Concen: 34.539 ng  
 RT: 10.35 min Scan# 1235  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.4  | 75.0  | 112.6 |
| 145     | 30.7  | 24.1  | 36.1  |

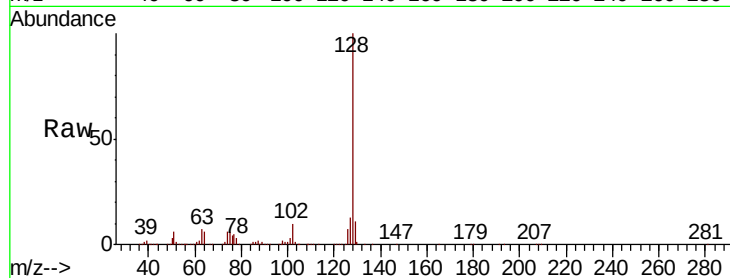




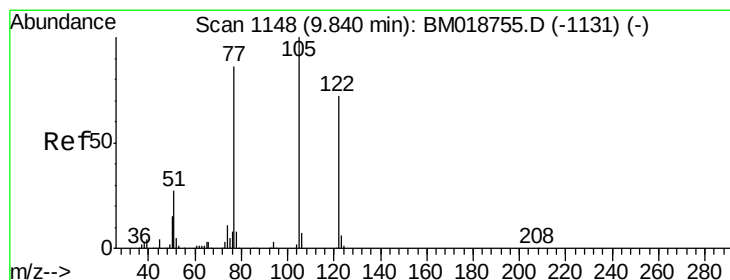
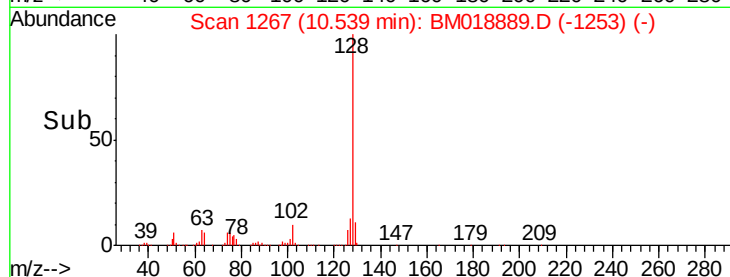
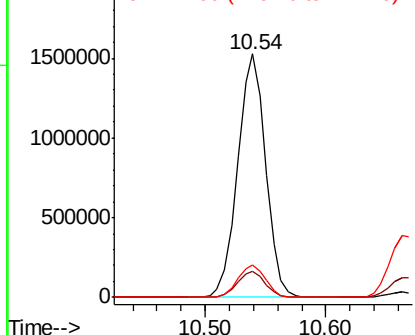
#31  
Naphthalene  
Concen: 38.210 ng  
RT: 10.54 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:128 Resp: 2460286  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.0 13.4  
127 13.3 10.7 16.1

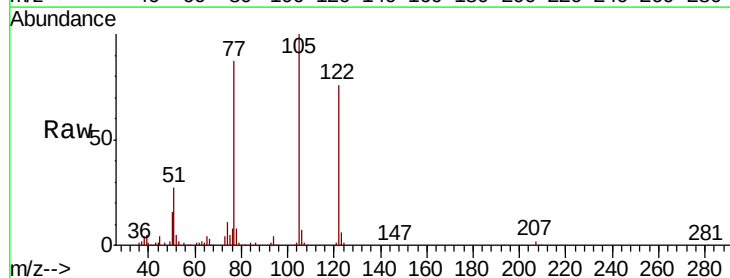


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

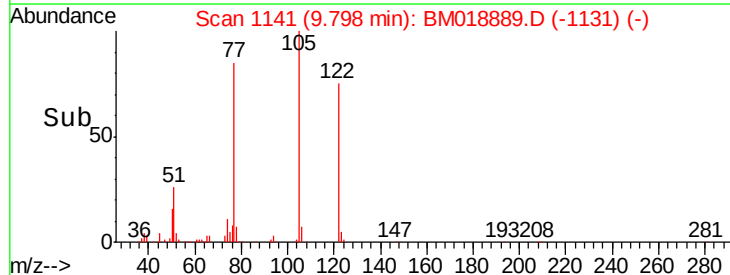
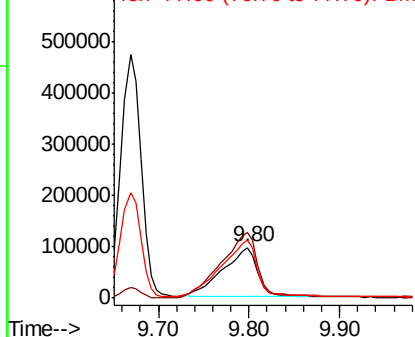


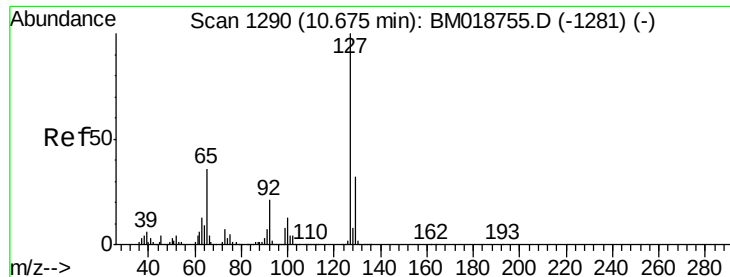
#32  
Benzoic acid  
Concen: 16.979 ng  
RT: 9.80 min Scan# 1141  
Delta R.T. -0.04 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:122 Resp: 255316  
Ion Ratio Lower Upper  
122 100  
105 131.2 117.5 157.5  
77 114.3 98.5 138.5



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): BM

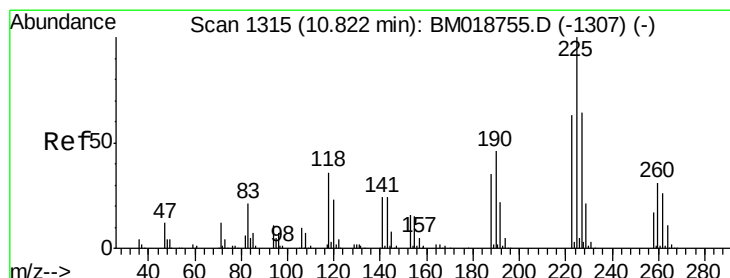
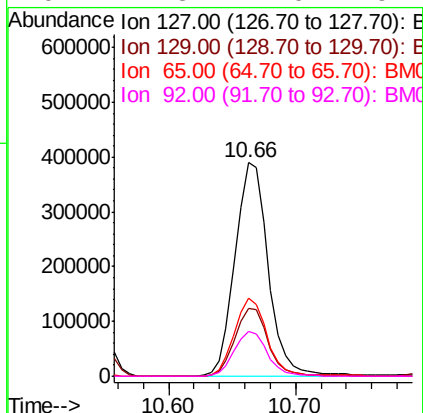
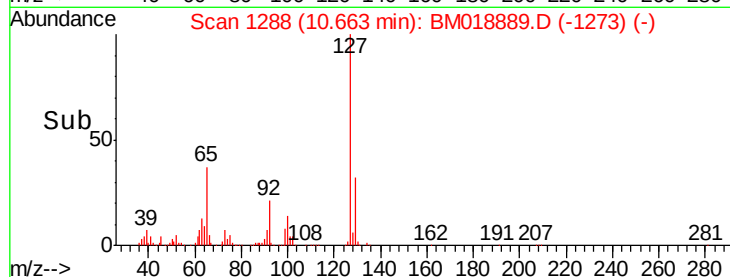
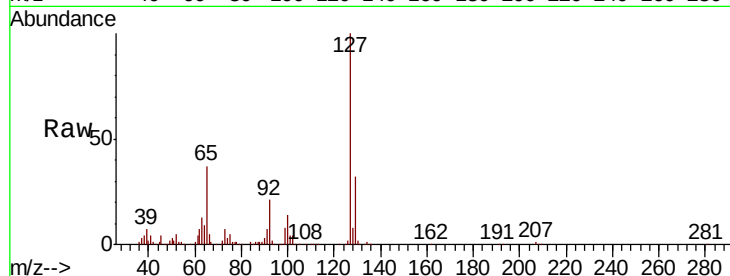




#33  
4-Chloroaniline  
Concen: 24.497 ng  
RT: 10.66 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

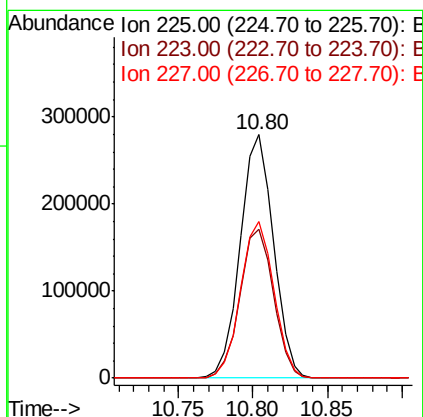
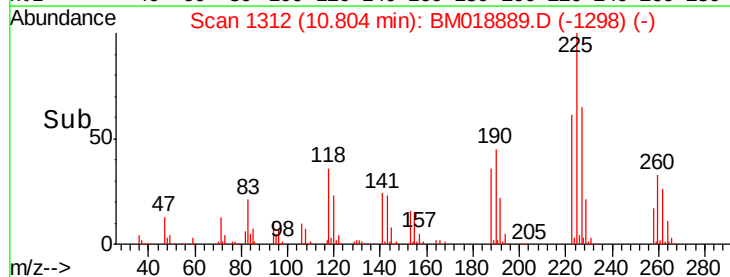
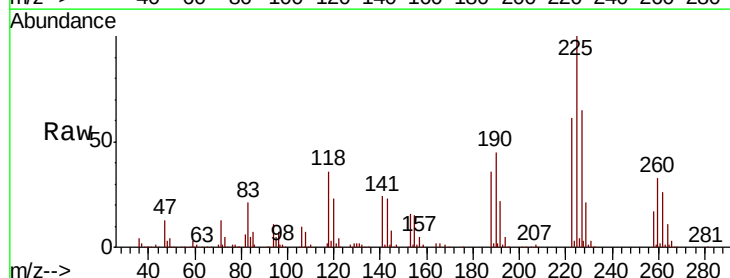
Instrument :  
BNA\_M  
ClientSampleId :  
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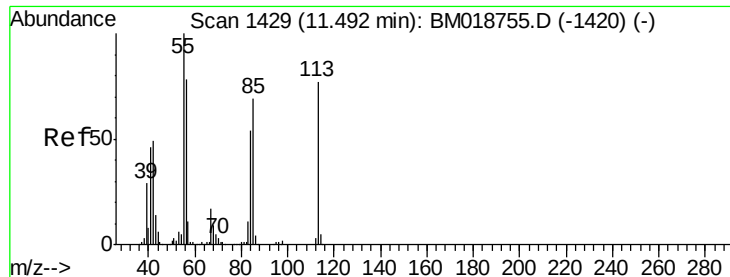
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 127   | Resp: | 705086 |
| Ion      | Ratio | Lower | Upper  |
| 127      | 100   |       |        |
| 129      | 31.9  | 25.7  | 38.5   |
| 65       | 36.7  | 28.7  | 43.1   |
| 92       | 21.3  | 17.0  | 25.4   |



#34  
Hexachlorobutadiene  
Concen: 32.634 ng  
RT: 10.80 min Scan# 1312  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 433007 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 61.1  | 50.1  | 75.1   |
| 227      | 64.6  | 51.4  | 77.0   |

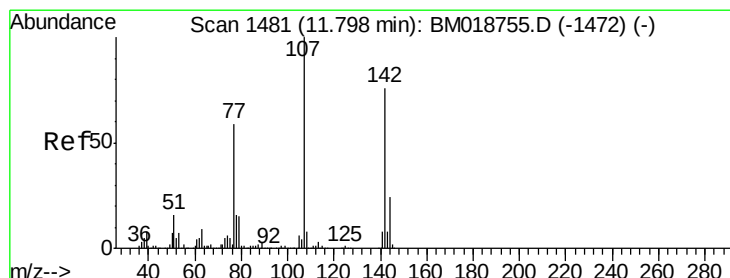
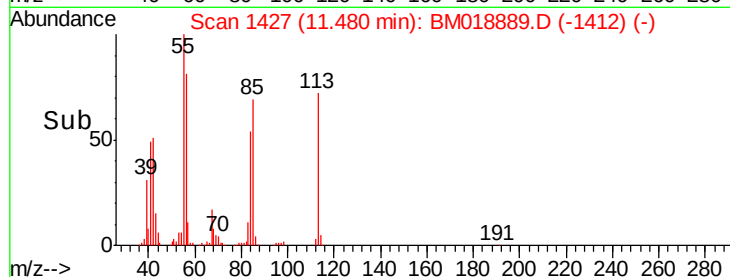
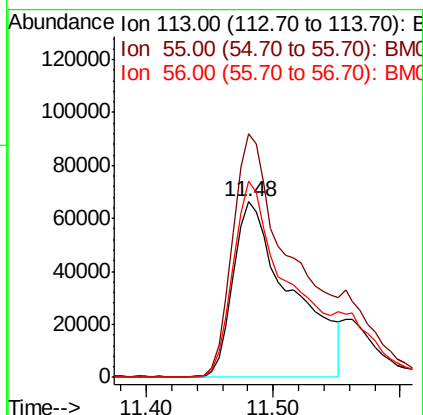
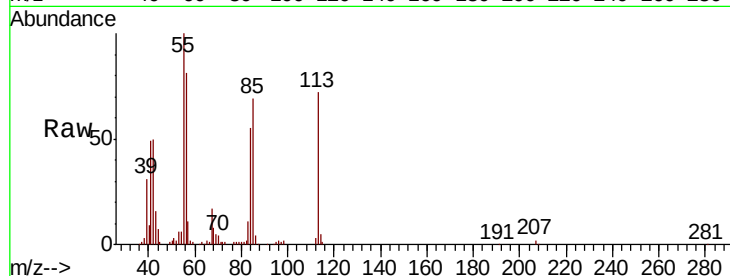




#35  
 Caprolactam  
 Concen: 26.166 ng  
 RT: 11.48 min Scan# 1427  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

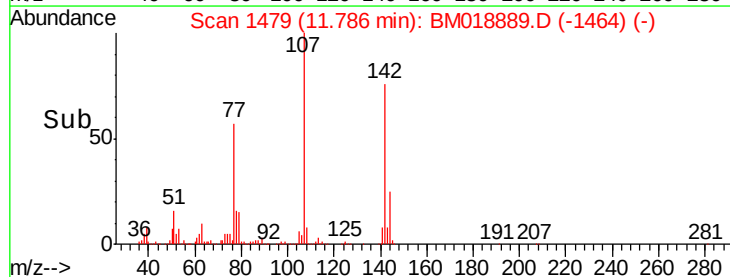
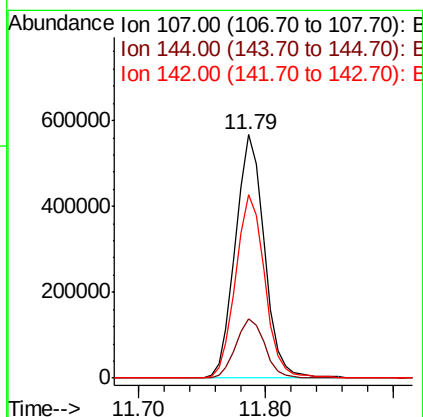
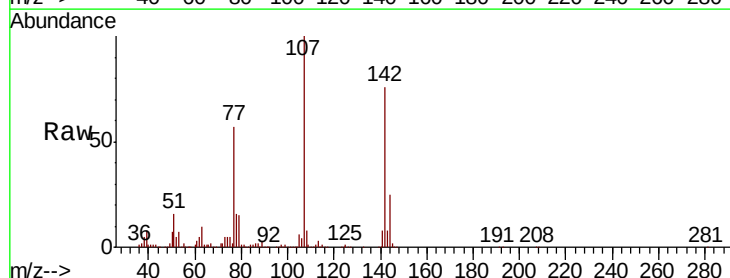
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

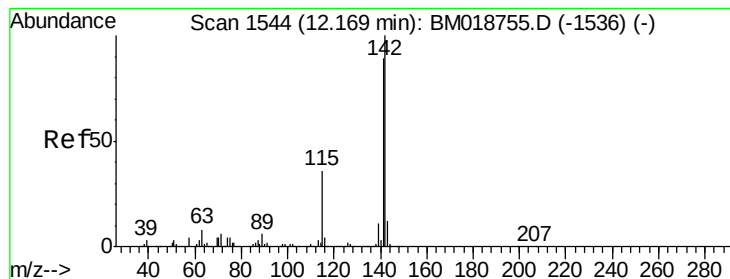
Tgt Ion:113 Resp: 211379  
 Ion Ratio Lower Upper  
 113 100  
 55 138.6 110.7 150.7  
 56 111.6 82.4 122.4



#36  
 4-Chloro-3-methylphenol  
 Concen: 37.696 ng  
 RT: 11.79 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Tgt Ion:107 Resp: 899622  
 Ion Ratio Lower Upper  
 107 100  
 144 24.5 19.3 28.9  
 142 75.6 60.5 90.7





#37

2-Methylnaphthalene

Concen: 39.999 ng

RT: 12.16 min Scan# 1542

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

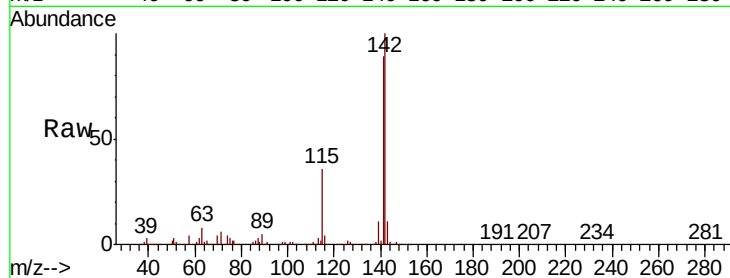
Tgt Ion:142 Resp: 1813303

Ion Ratio Lower Upper

142 100

141 88.9 71.2 106.8

115 35.6 29.1 43.7

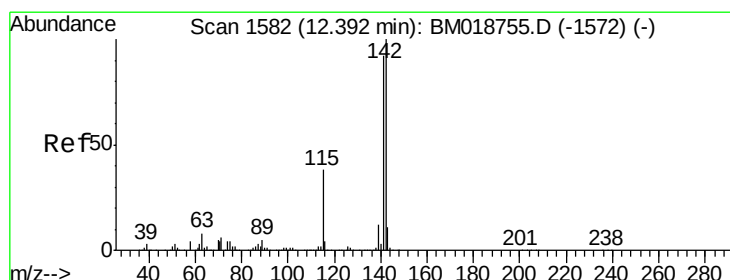
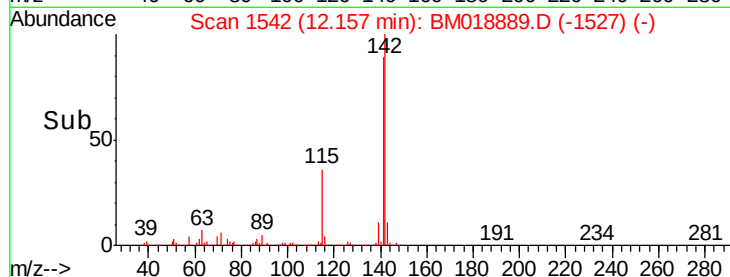
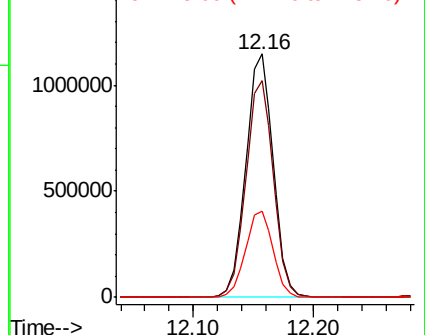


Abundance

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: 38.760 ng

RT: 12.37 min Scan# 1579

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

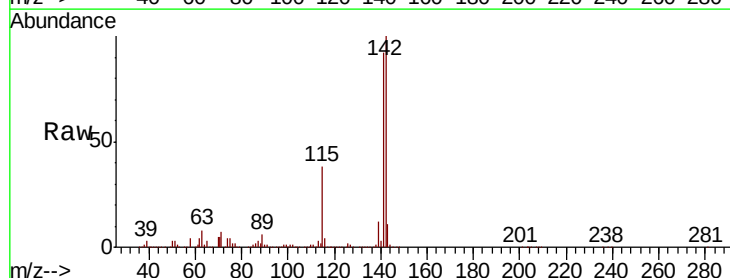
Tgt Ion:142 Resp: 1718254

Ion Ratio Lower Upper

142 100

141 92.2 73.9 110.9

116 3.9 3.0 4.4

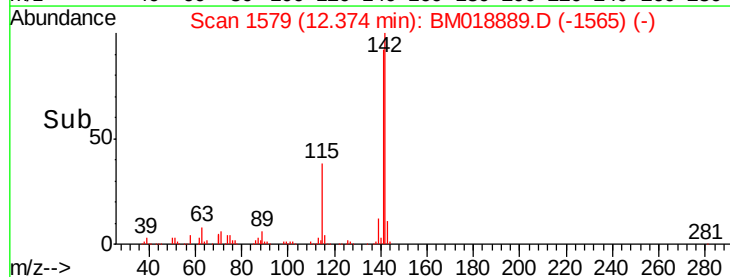
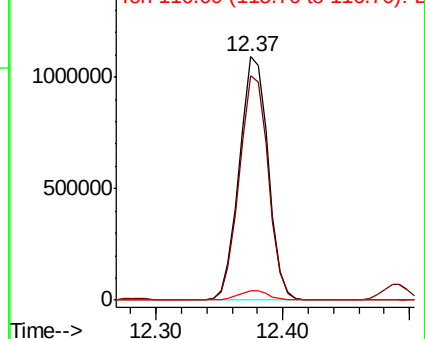


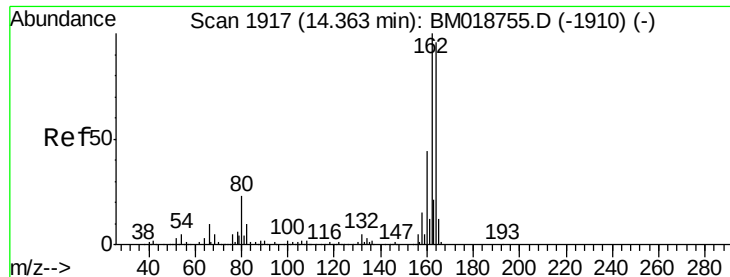
Abundance

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: 14.35 min Scan# 1915

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

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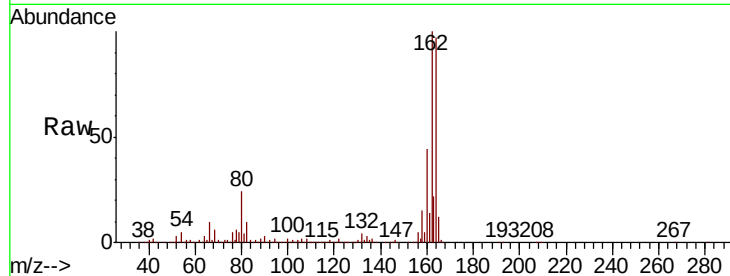
Tgt Ion:164 Resp: 757157

Ion Ratio Lower Upper

164 100

162 103.4 83.4 125.0

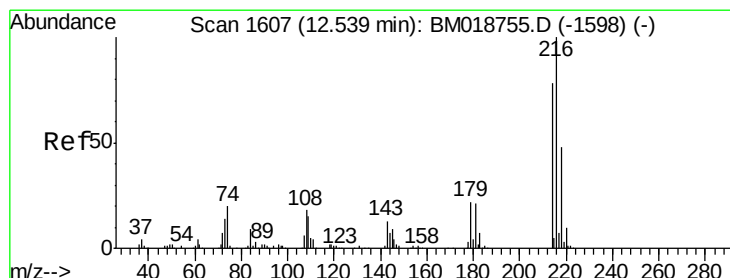
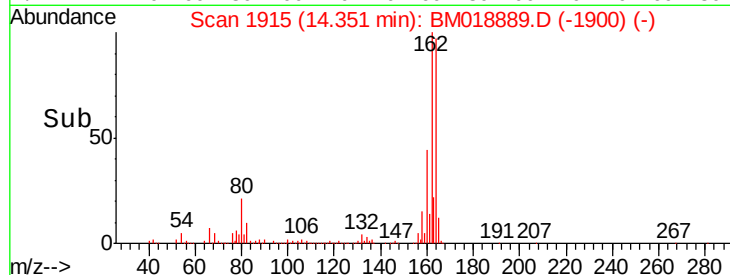
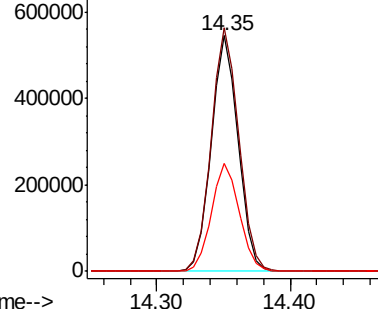
160 46.0 36.6 55.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40

1,2,4,5-Tetrachlorobenzene

Concen: 35.298 ng

RT: 12.52 min Scan# 1604

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Tgt Ion:216 Resp: 854942

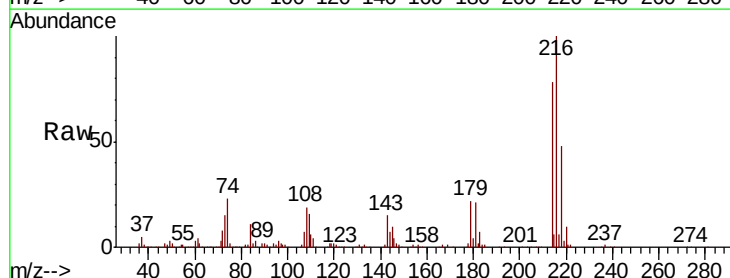
Ion Ratio Lower Upper

216 100

214 78.5 63.2 94.8

179 22.5 17.8 26.8

108 22.2 16.4 24.6

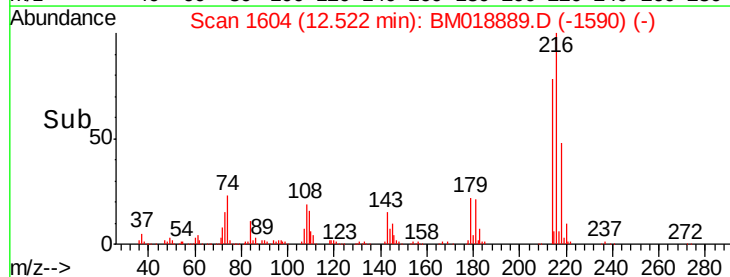
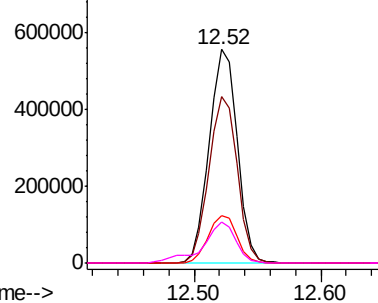


Abundance Ion 216.00 (215.70 to 216.70): E

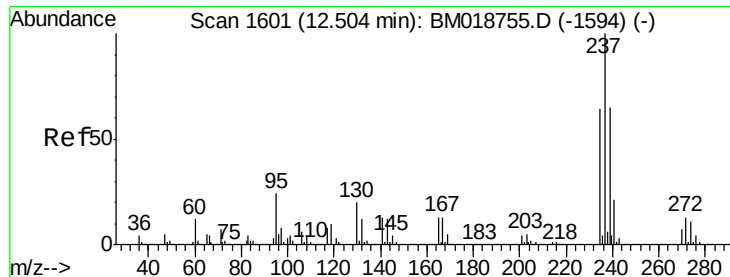
Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E







#41

Hexachlorocyclopentadiene

Concen: 68.102 ng

RT: 12.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

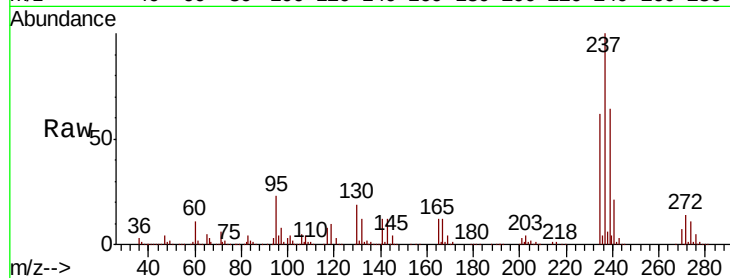
Instrument :

BNA\_M

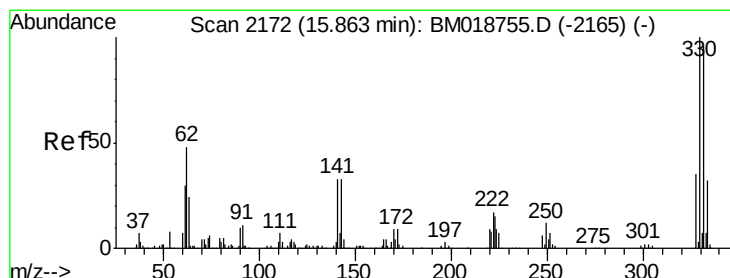
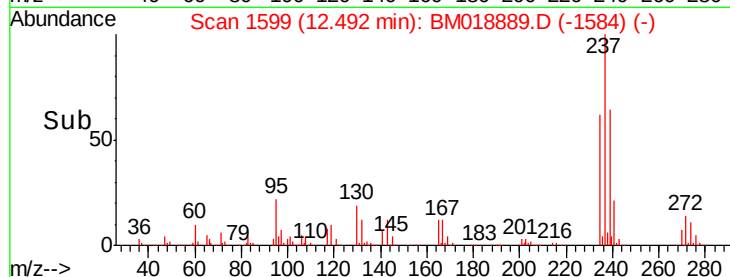
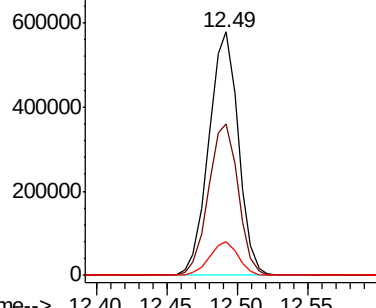
ClientSampleId :

SOIL-PILEMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 237   | Resp: | 843335 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 62.1  | 43.7  | 83.7   |
| 272       | 13.7  | 0.0   | 33.3   |



Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 130.251 ng

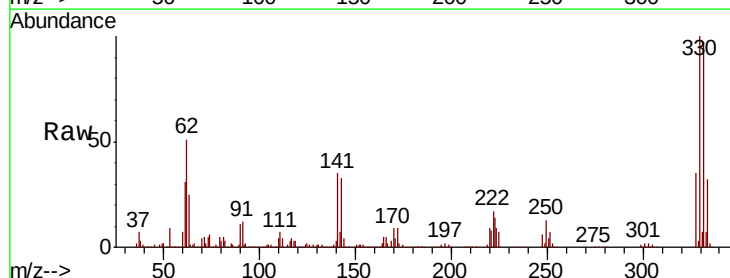
RT: 15.85 min Scan# 2170

Delta R.T. -0.01 min

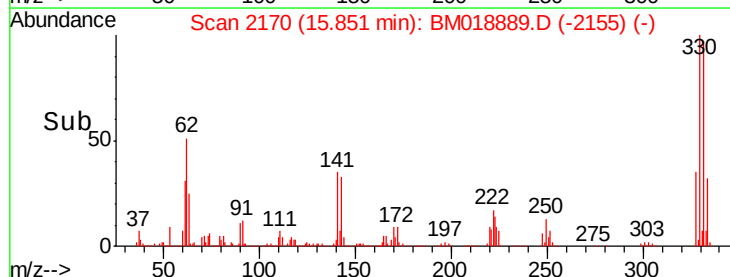
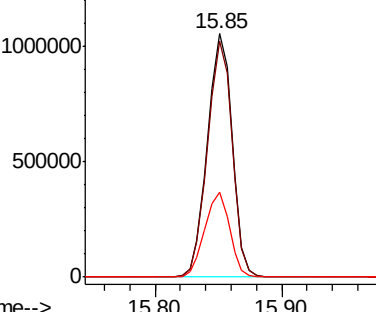
Lab File: BM018889.D

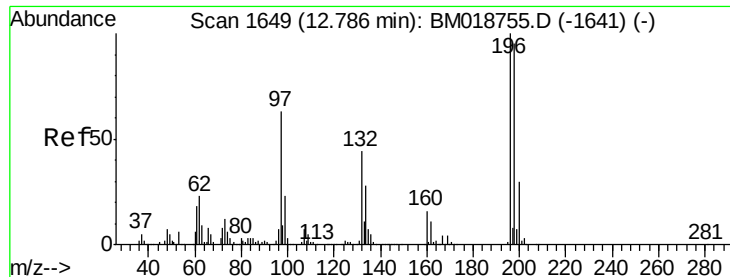
Acq: 20 Feb 2019 18:28

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 330   | Resp: | 1421583 |
| Ion Ratio | Lower | Upper |         |
| 330       | 100   |       |         |
| 332       | 96.8  | 76.9  | 115.3   |
| 141       | 35.1  | 28.7  | 43.1    |



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

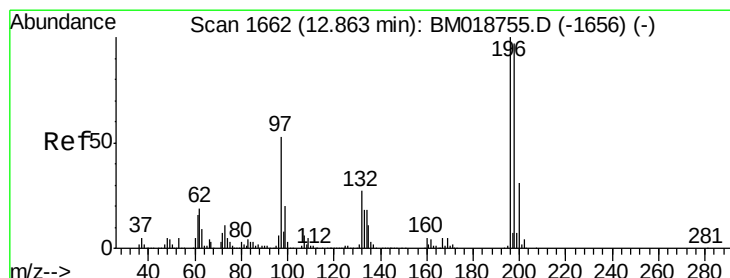
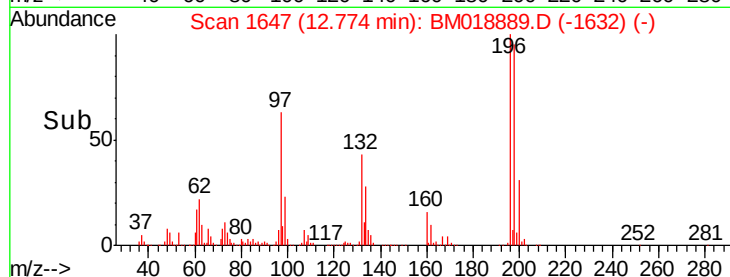
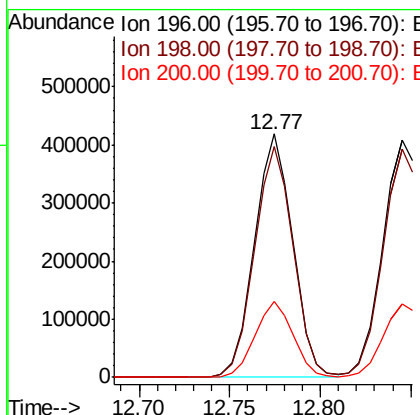
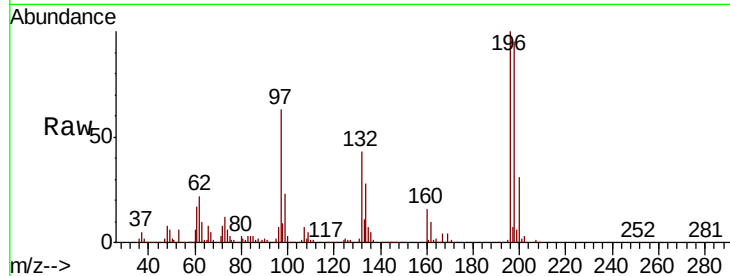




#43  
 2,4,6-Trichlorophenol  
 Concen: 38.272 ng  
 RT: 12.77 min Scan# 1647  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

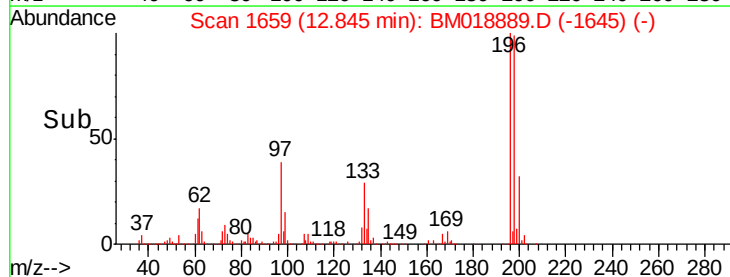
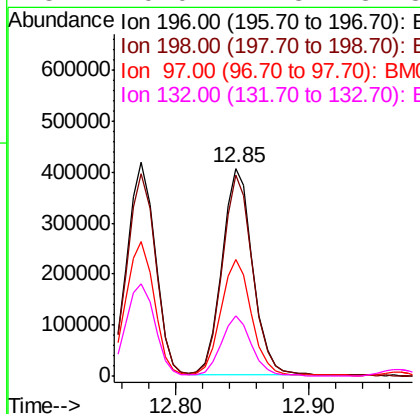
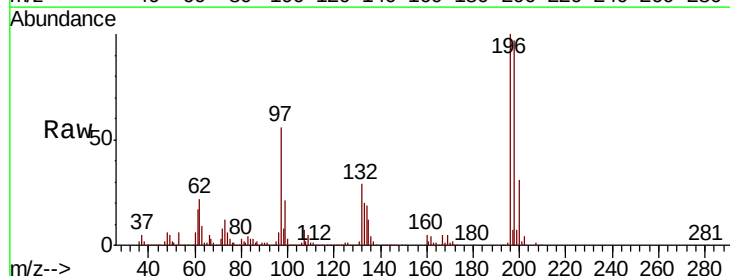
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

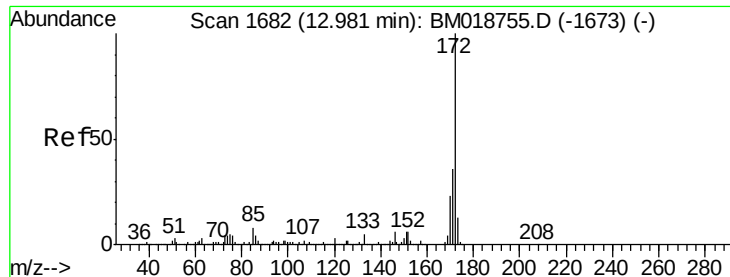
Tgt Ion:196 Resp: 613652  
 Ion Ratio Lower Upper  
 196 100  
 198 94.7 76.2 114.2  
 200 31.2 24.2 36.2



#44  
 2,4,5-Trichlorophenol  
 Concen: 38.885 ng  
 RT: 12.85 min Scan# 1659  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Tgt Ion:196 Resp: 653497  
 Ion Ratio Lower Upper  
 196 100  
 198 96.7 77.6 116.4  
 97 56.0 42.8 64.2  
 132 29.0 21.8 32.8

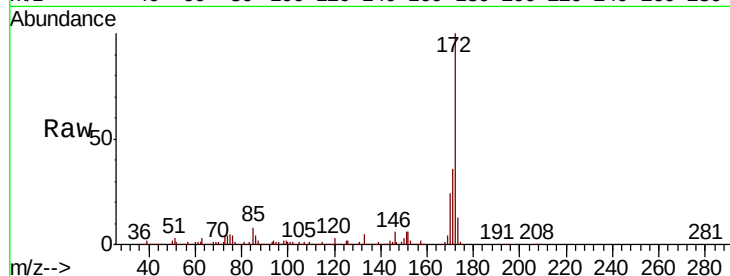




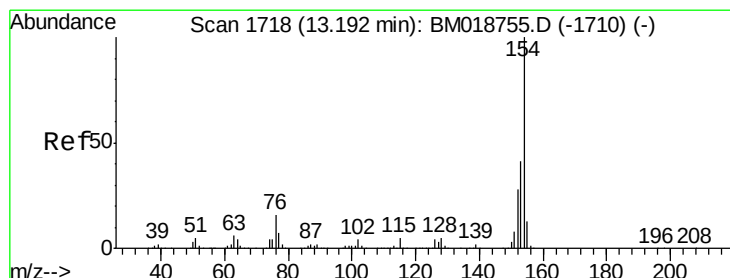
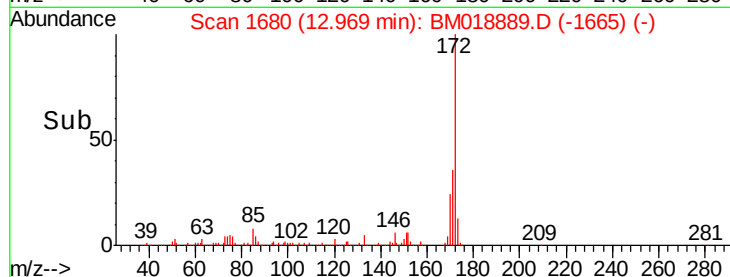
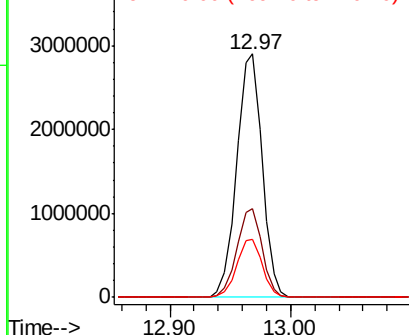
#45  
2-Fluorobiphenyl  
Concen: 74.953 ng  
RT: 12.97 min Scan# 1680  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:172 Resp: 4275135  
Ion Ratio Lower Upper  
172 100  
171 36.3 29.0 43.6  
170 23.6 18.6 28.0

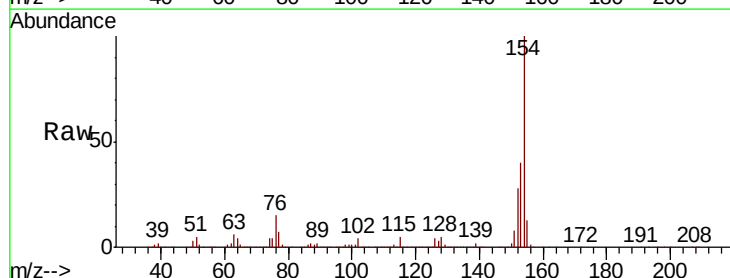


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

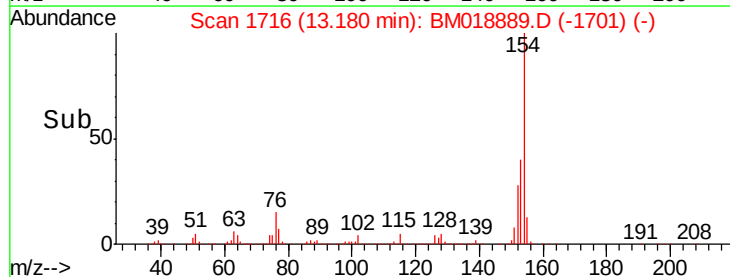
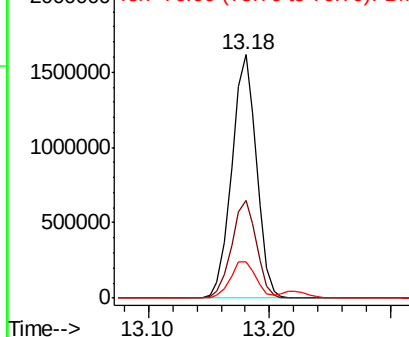


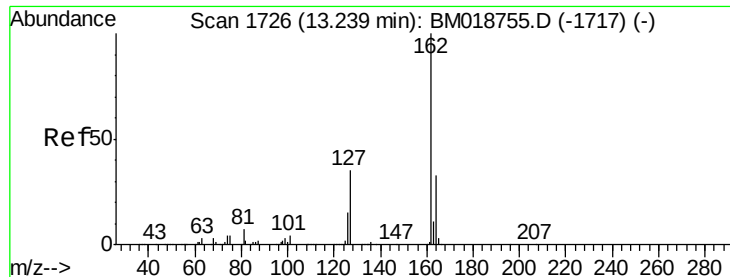
#46  
1,1'-Biphenyl  
Concen: 35.292 ng  
RT: 13.18 min Scan# 1716  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:154 Resp: 2300141  
Ion Ratio Lower Upper  
154 100  
153 40.3 21.1 61.1  
76 15.1 0.0 35.7



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): BM

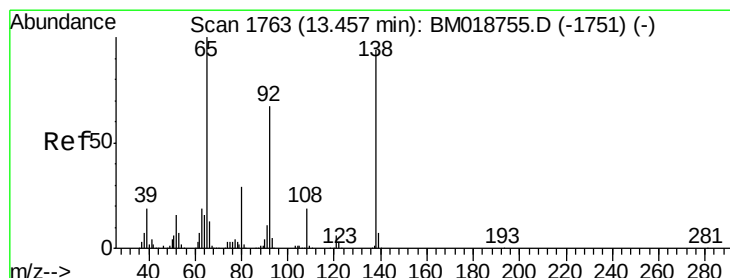
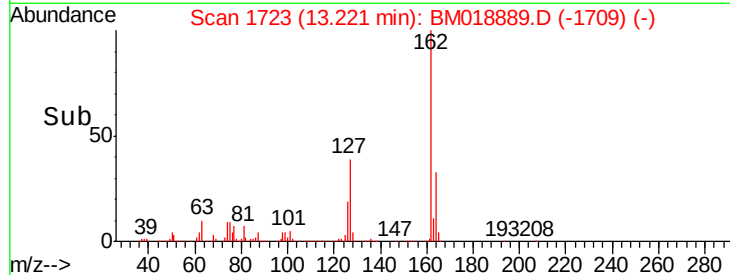
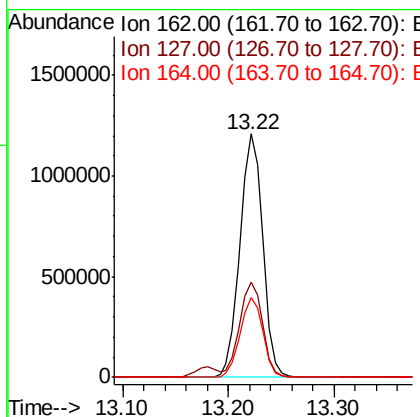
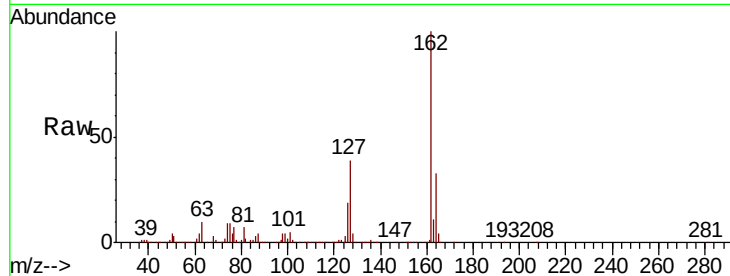




#47  
 2-Chloronaphthalene  
 Concen: 35.707 ng  
 RT: 13.22 min Scan# 1723  
 Delta R.T. -0.02 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

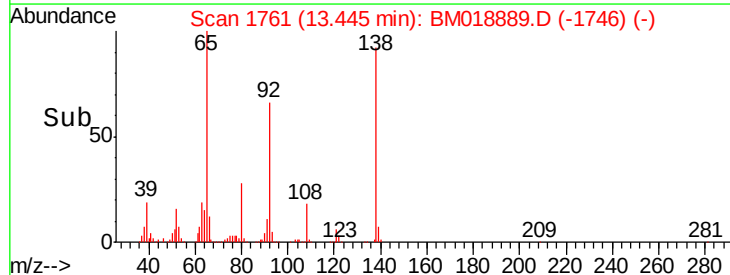
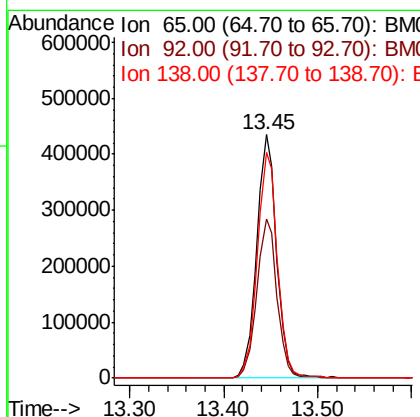
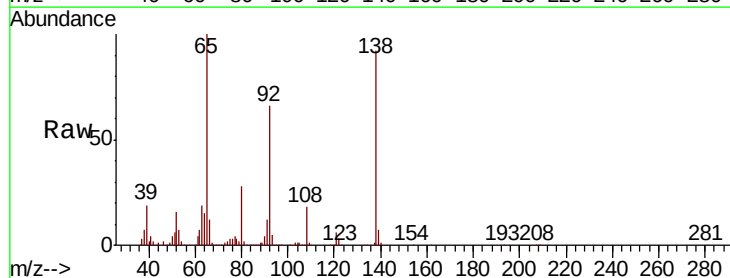
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

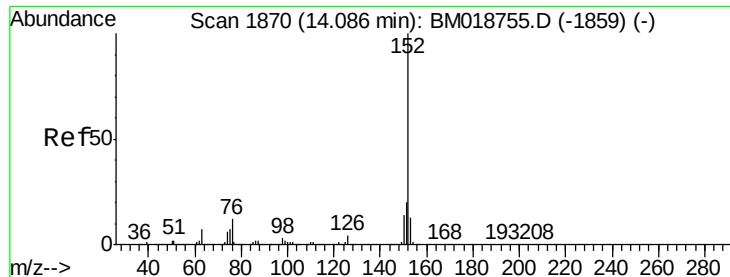
Tgt Ion: 162 Resp: 1797500  
 Ion Ratio Lower Upper  
 162 100  
 127 39.3 31.1 46.7  
 164 33.0 26.4 39.6



#48  
 2-Nitroaniline  
 Concen: 38.286 ng  
 RT: 13.45 min Scan# 1761  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Tgt Ion: 65 Resp: 640100  
 Ion Ratio Lower Upper  
 65 100  
 92 65.5 54.0 81.0  
 138 92.5 74.9 112.3





#49

Acenaphthylene

Concen: 39.141 ng

RT: 14.07 min Scan# 1868

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

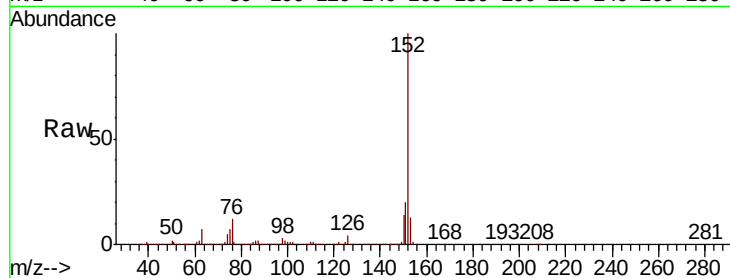
Tgt Ion:152 Resp: 2933857

Ion Ratio Lower Upper

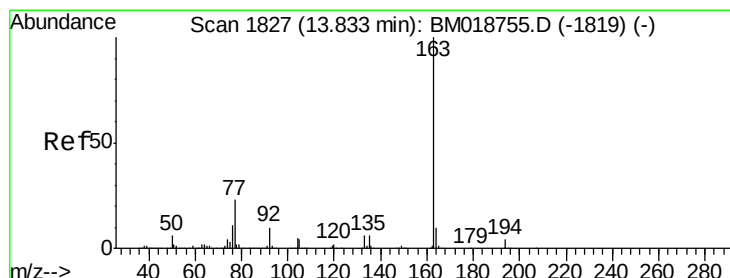
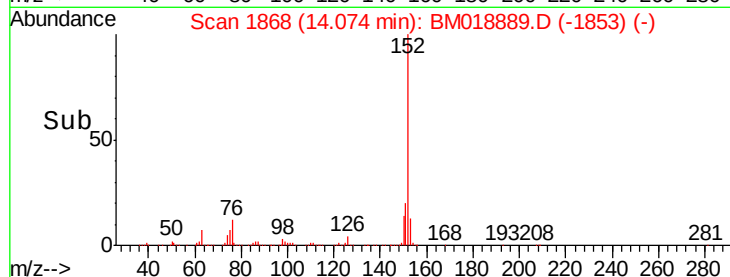
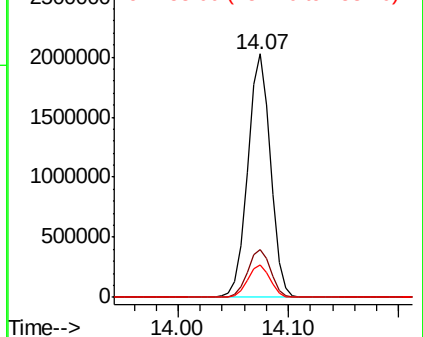
152 100

151 19.9 15.8 23.8

153 13.2 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 40.081 ng

RT: 13.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

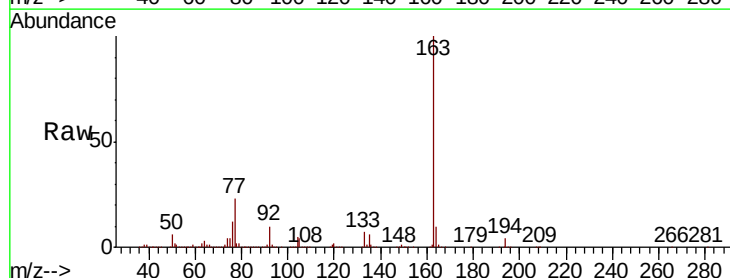
Tgt Ion:163 Resp: 2529158

Ion Ratio Lower Upper

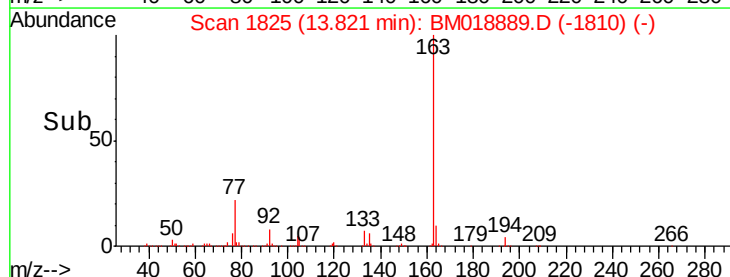
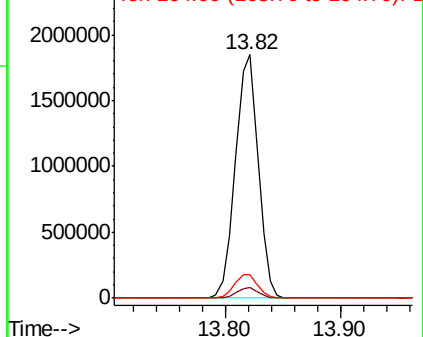
163 100

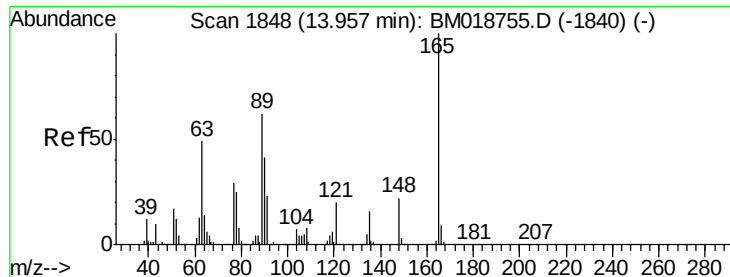
194 4.1 3.2 4.8

164 9.8 7.8 11.8



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

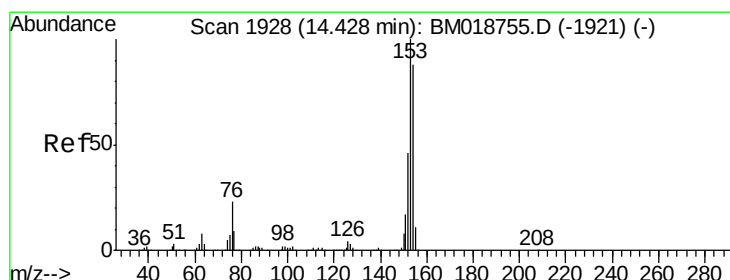
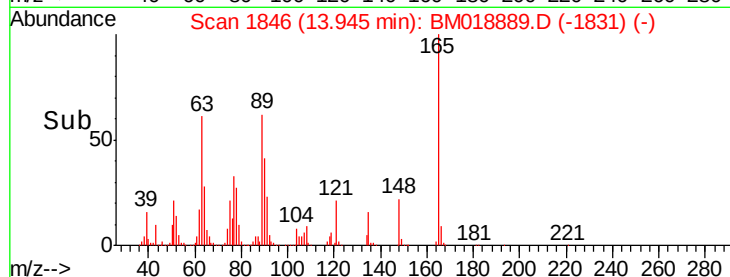
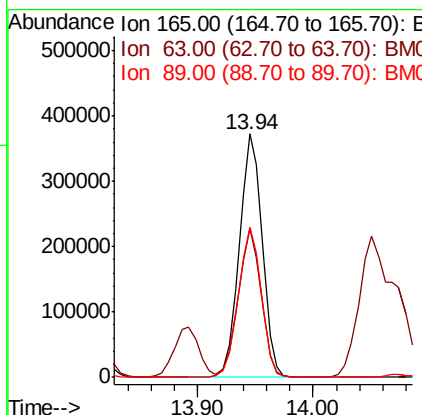
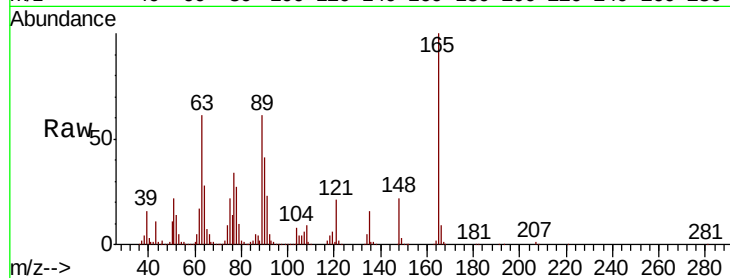




#51  
2,6-Dinitrotoluene  
Concen: 37.264 ng  
RT: 13.94 min Scan# 1846  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

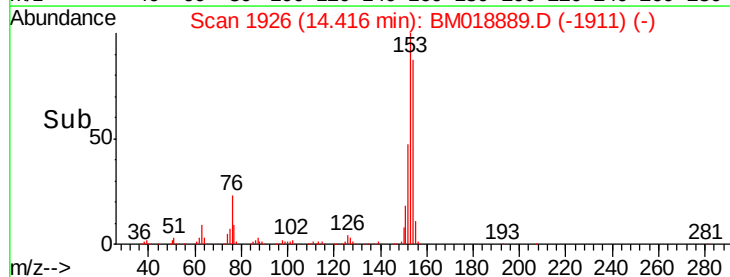
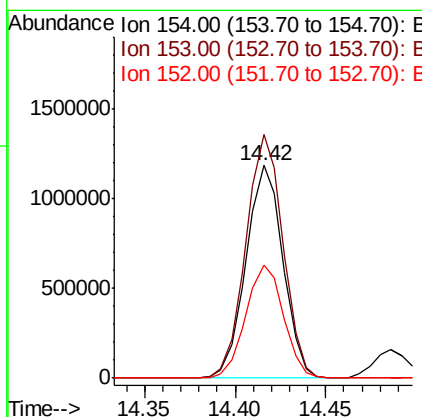
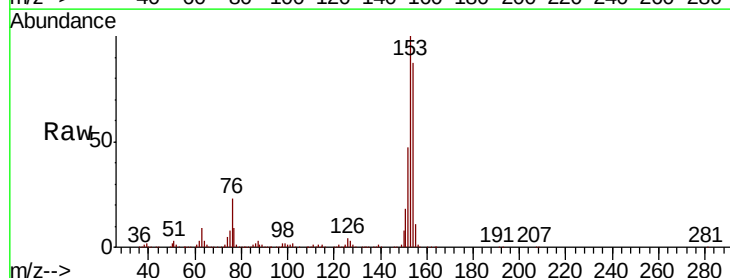
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

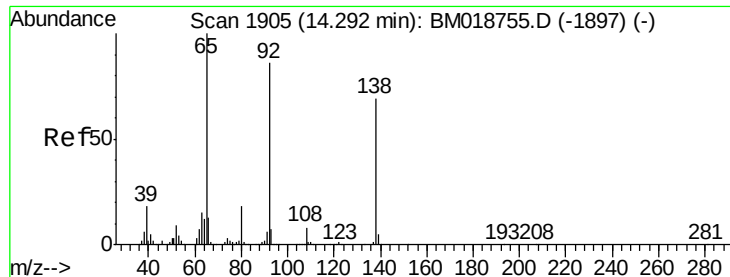
Tgt Ion:165 Resp: 509370  
Ion Ratio Lower Upper  
165 100  
63 61.1 48.9 73.3  
89 61.5 49.4 74.0



#52  
Acenaphthene  
Concen: 36.659 ng  
RT: 14.42 min Scan# 1926  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:154 Resp: 1684926  
Ion Ratio Lower Upper  
154 100  
153 114.4 91.3 136.9  
152 53.4 42.2 63.4

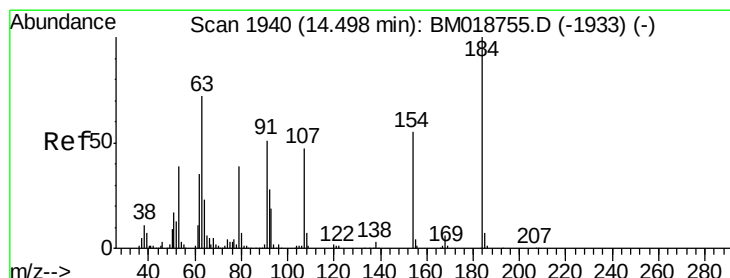
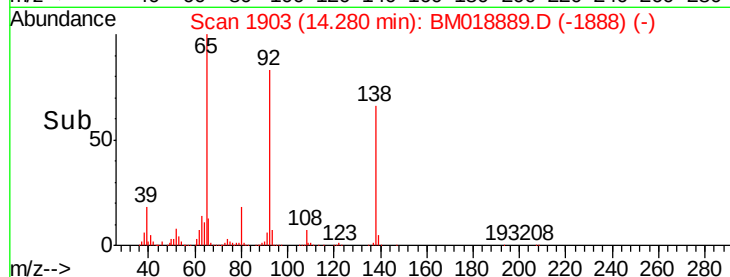
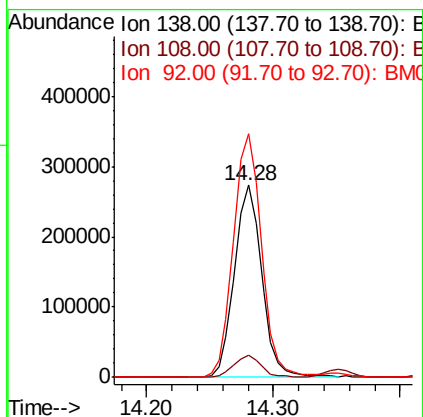
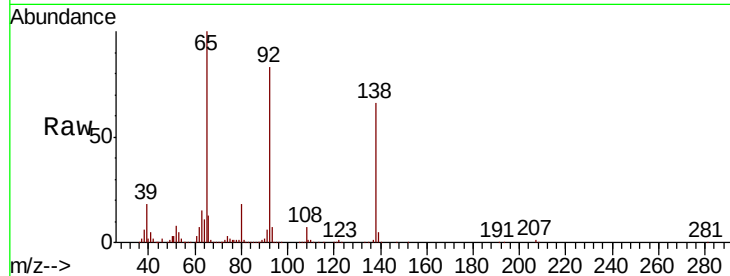




#53  
3-Nitroaniline  
Concen: 26.523 ng  
RT: 14.28 min Scan# 1903  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

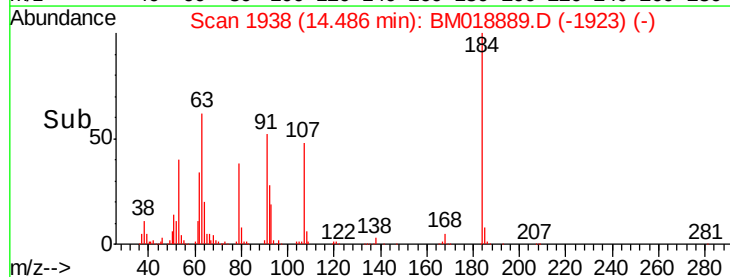
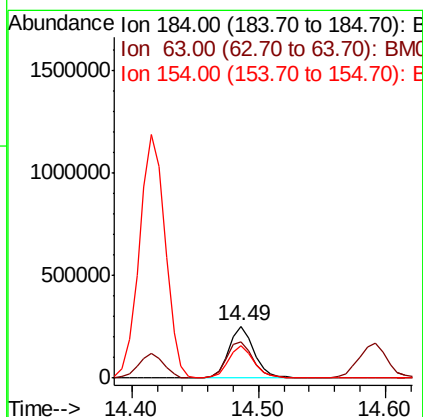
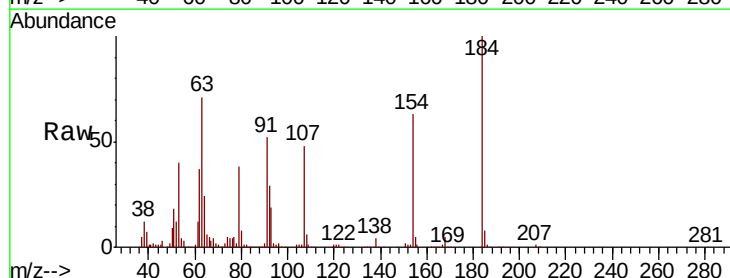
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

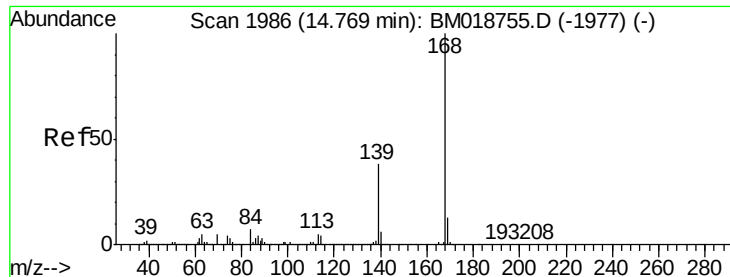
Tgt Ion:138 Resp: 409645  
Ion Ratio Lower Upper  
138 100  
108 11.3 9.1 13.7  
92 126.6 99.7 149.5



#54  
2,4-Dinitrophenol  
Concen: 43.143 ng  
RT: 14.49 min Scan# 1938  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:184 Resp: 349389  
Ion Ratio Lower Upper  
184 100  
63 70.8 58.0 87.0  
154 63.1 50.3 75.5





#55

Dibenzofuran

Concen: 36.267 ng

RT: 14.75 min Scan# 1983

Delta R.T. -0.02 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

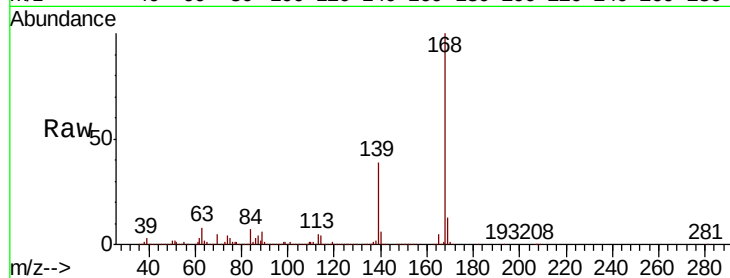
Tgt Ion:168 Resp: 2739820

Ion Ratio Lower Upper

168 100

139 38.8 30.7 46.1

169 13.4 10.3 15.5

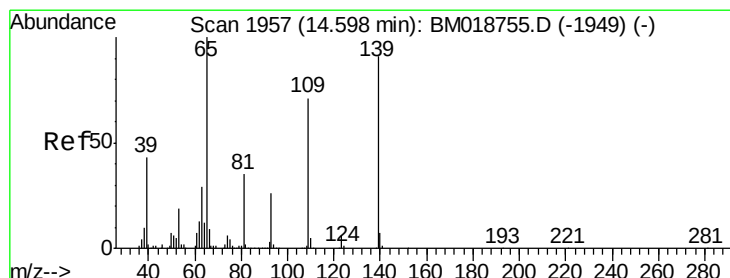
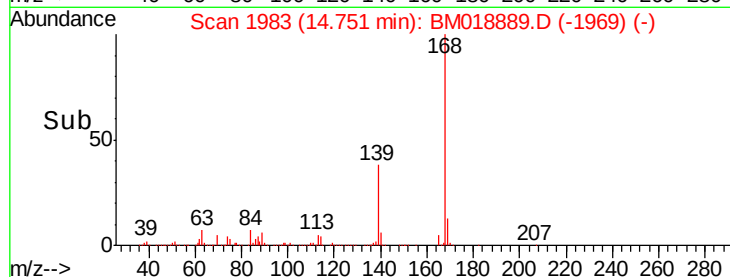
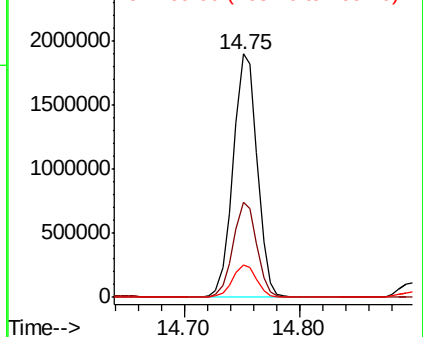


Abundance

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: 68.755 ng

RT: 14.59 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

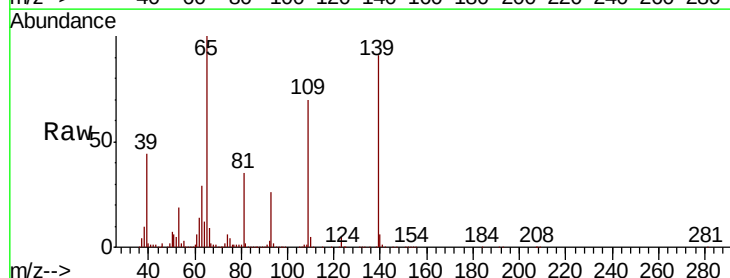
Tgt Ion:139 Resp: 847694

Ion Ratio Lower Upper

139 100

109 77.2 58.4 98.4

65 110.2 89.8 129.8

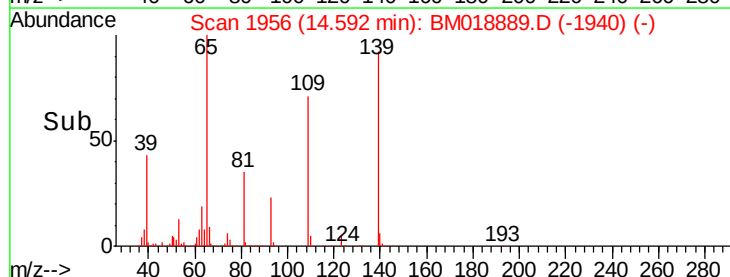
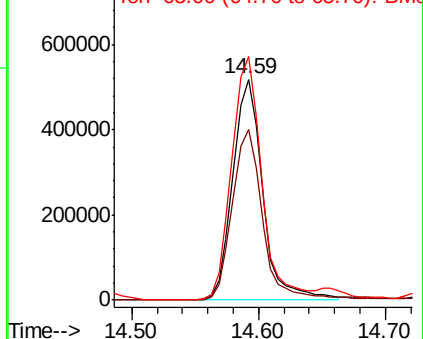


Abundance

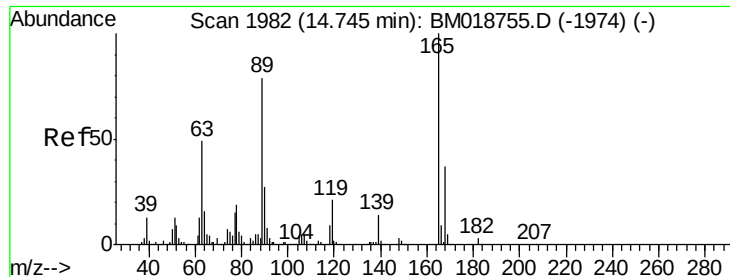
Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): E



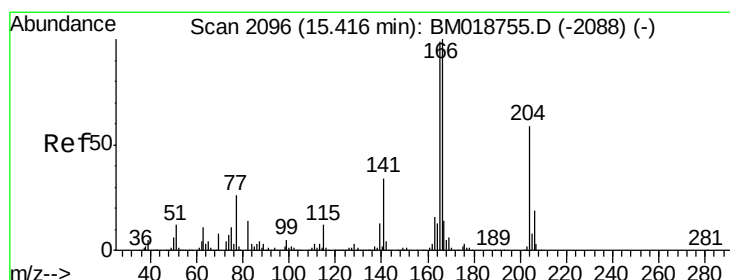
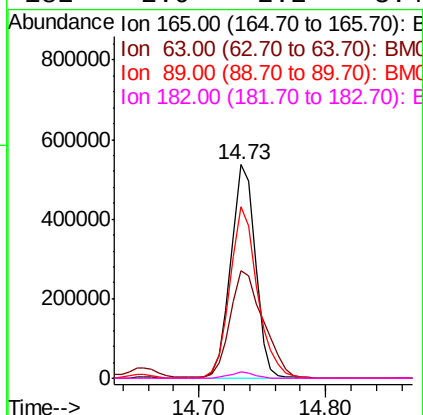
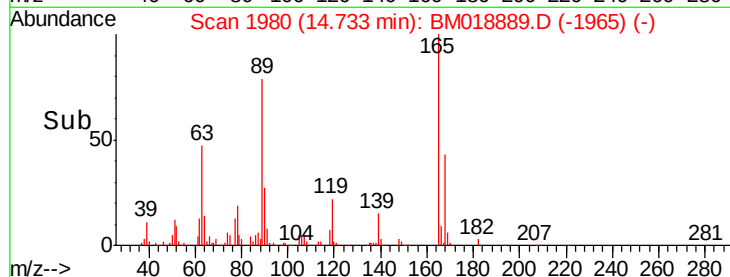
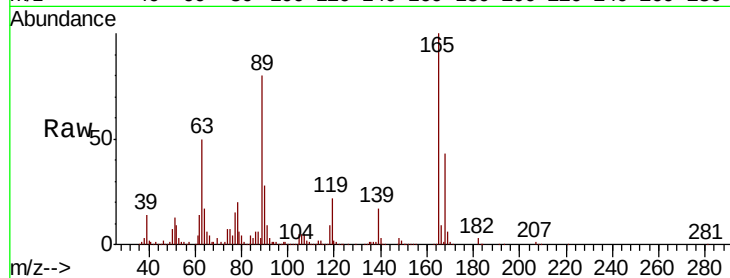




#57  
 2,4-Dinitrotoluene  
 Concen: 38.180 ng  
 RT: 14.73 min Scan# 1980  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

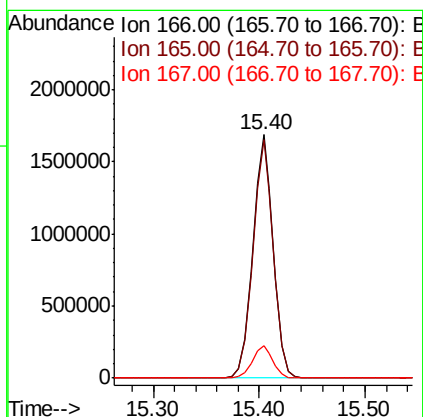
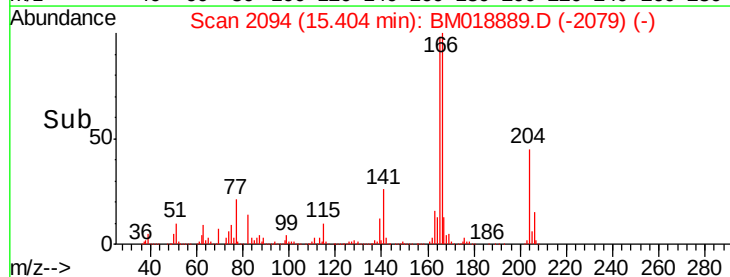
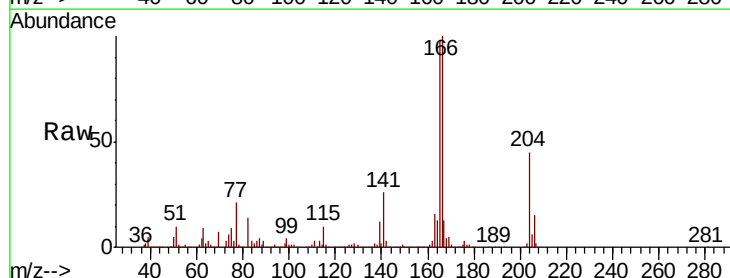
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

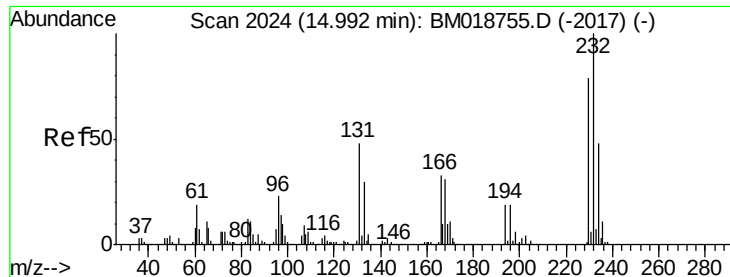
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 165   | Resp: | 719063 |
| Ion      | Ratio | Lower | Upper  |
| 165      | 100   |       |        |
| 63       | 50.3  | 39.6  | 59.4   |
| 89       | 80.2  | 63.5  | 95.3   |
| 182      | 2.9   | 2.2   | 3.4    |



#58  
 Fluorene  
 Concen: 39.193 ng  
 RT: 15.40 min Scan# 2094  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 166   | Resp: | 2265154 |
| Ion      | Ratio | Lower | Upper   |
| 166      | 100   |       |         |
| 165      | 97.9  | 79.1  | 118.7   |
| 167      | 13.5  | 11.0  | 16.4    |

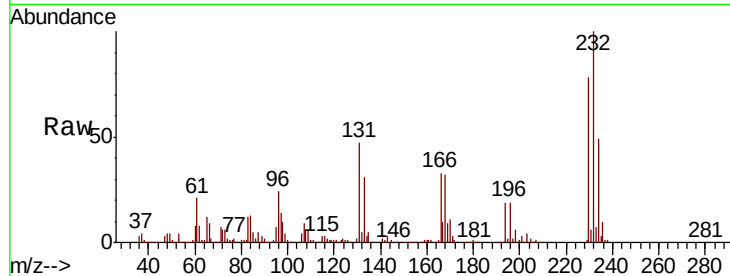




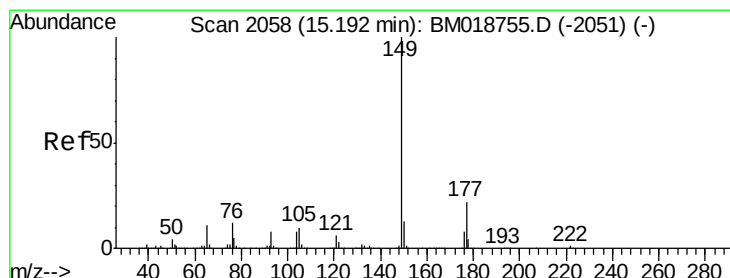
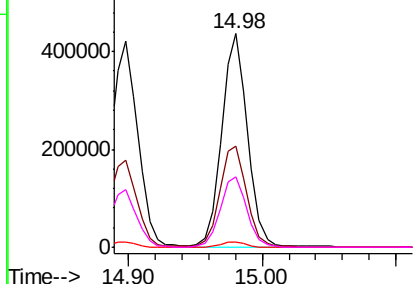
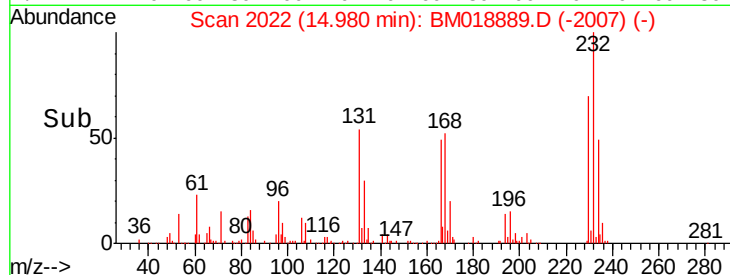
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 39.499 ng  
RT: 14.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:232 Resp: 586758  
Ion Ratio Lower Upper  
232 100  
131 49.2 38.6 57.8  
130 2.6 2.0 3.0  
166 33.8 26.9 40.3

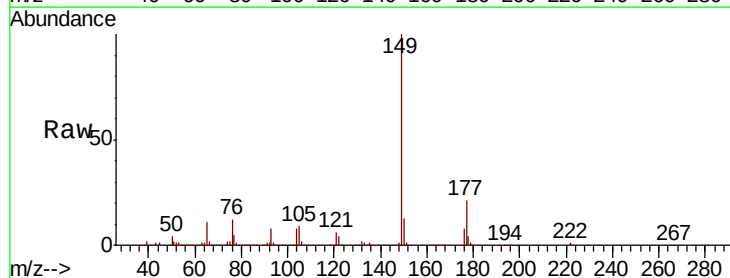


Abundance Ion 232.00 (231.70 to 232.70): E  
Ion 131.00 (130.70 to 131.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 166.00 (165.70 to 166.70): E

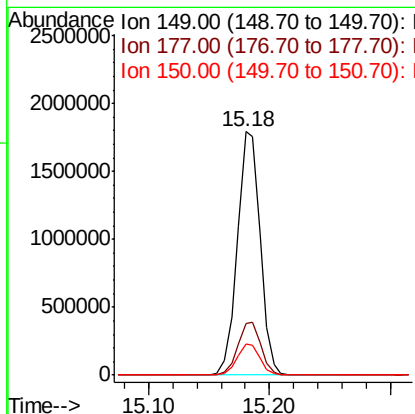
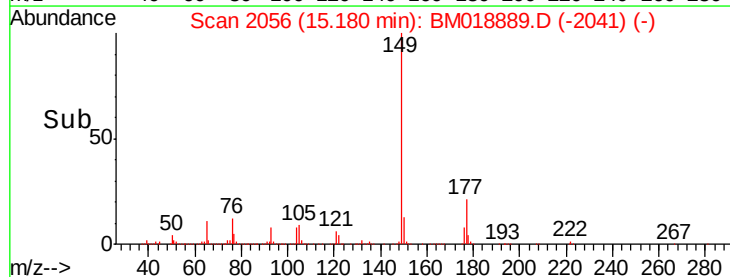


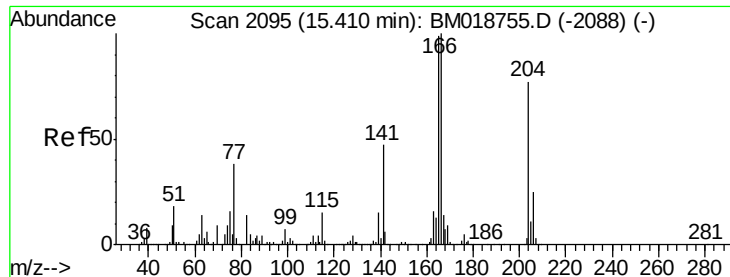
#60  
Diethylphthalate  
Concen: 36.286 ng  
RT: 15.18 min Scan# 2056  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:149 Resp: 2361952  
Ion Ratio Lower Upper  
149 100  
177 21.0 17.2 25.8  
150 12.7 10.2 15.2



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

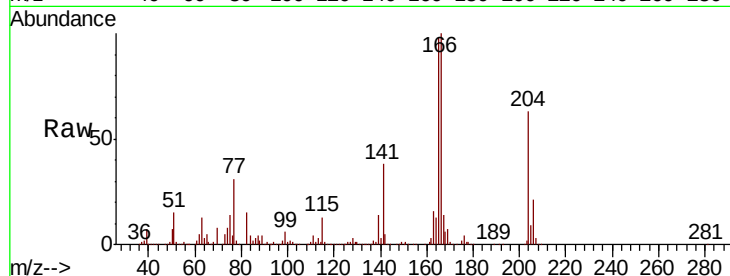




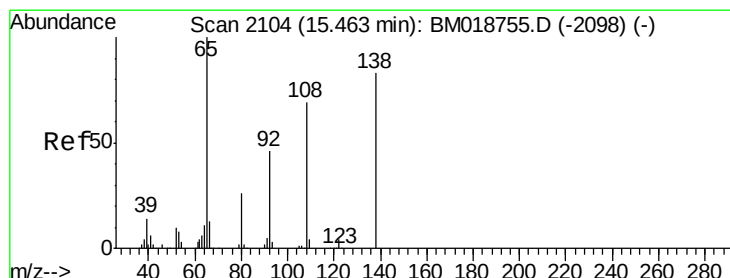
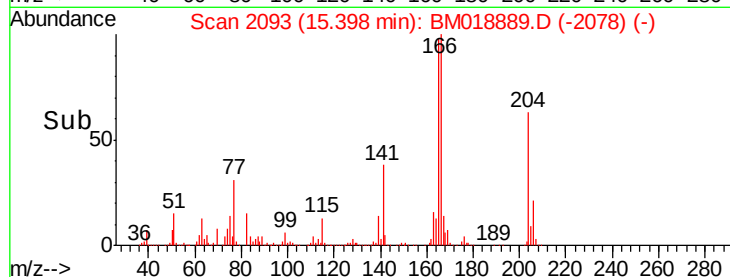
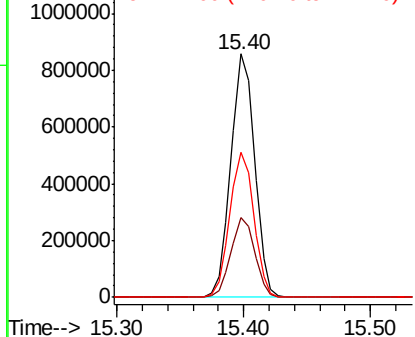
#61  
 4-Chlorophenyl-phenylether  
 Concen: 34.393 ng  
 RT: 15.40 min Scan# 2093  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

Tgt Ion:204 Resp: 1114457  
 Ion Ratio Lower Upper  
 204 100  
 206 32.8 26.2 39.2  
 141 59.6 49.2 73.8

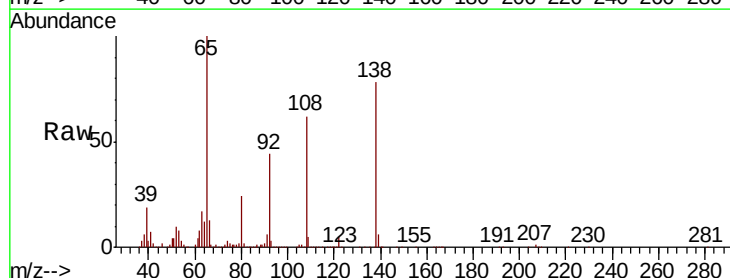


Abundance Ion 204.00 (203.70 to 204.70): E  
 Ion 206.00 (205.70 to 206.70): E  
 Ion 141.00 (140.70 to 141.70): E

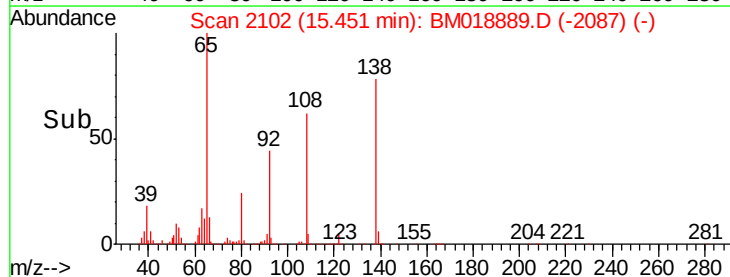
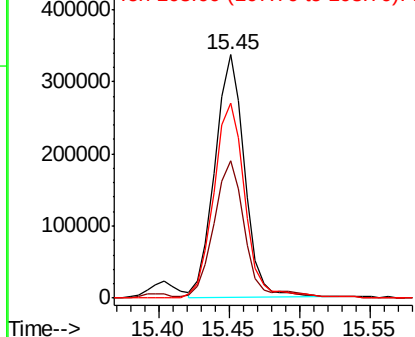


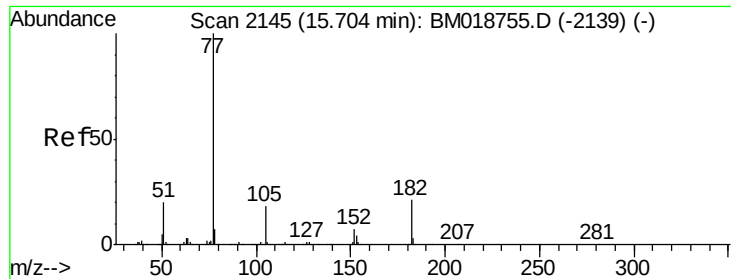
#62  
 4-Nitroaniline  
 Concen: 32.341 ng  
 RT: 15.45 min Scan# 2102  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Tgt Ion:138 Resp: 489681  
 Ion Ratio Lower Upper  
 138 100  
 92 56.3 35.5 75.5  
 108 80.0 62.4 102.4



Abundance Ion 138.00 (137.70 to 138.70): E  
 Ion 92.00 (91.70 to 92.70): BM0  
 Ion 108.00 (107.70 to 108.70): E





#63

Azobenzene

Concen: 37.063 ng

RT: 15.69 min Scan# 2143

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

Tgt Ion: 77 Resp: 2586676

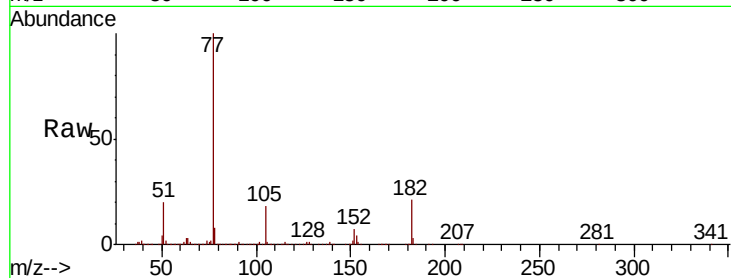
Ion Ratio Lower Upper

77 100

182 20.7 1.0 41.0

105 17.9 0.0 37.7

51 20.2 0.3 40.3

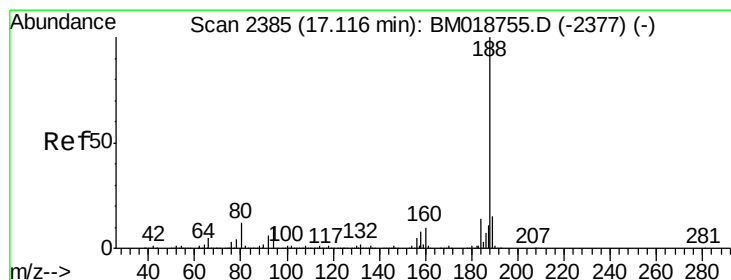
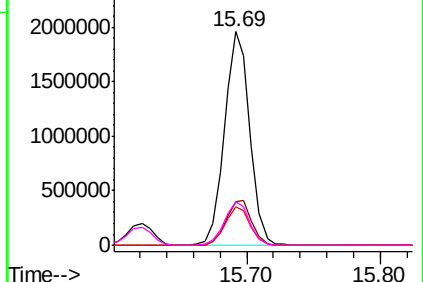
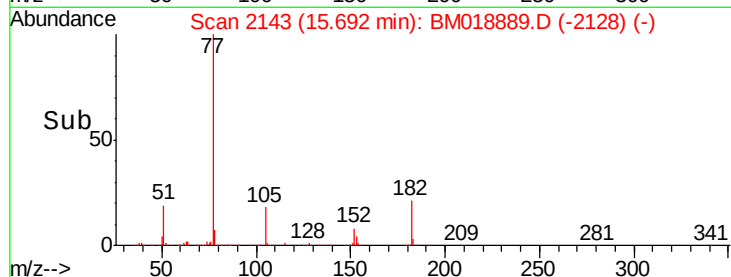


Abundance Ion 77.00 (76.70 to 77.70): BM0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BM0



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.10 min Scan# 2383

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

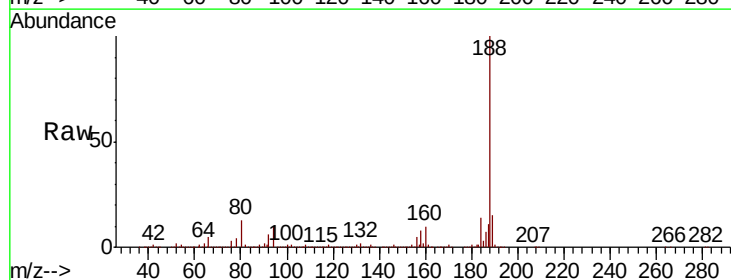
Tgt Ion: 188 Resp: 1692045

Ion Ratio Lower Upper

188 100

94 10.3 8.2 12.2

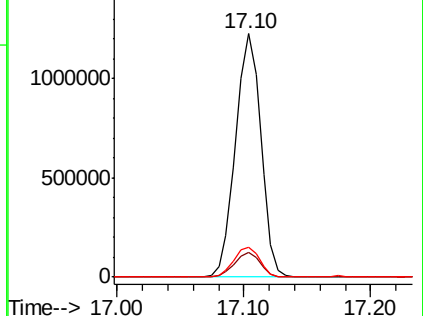
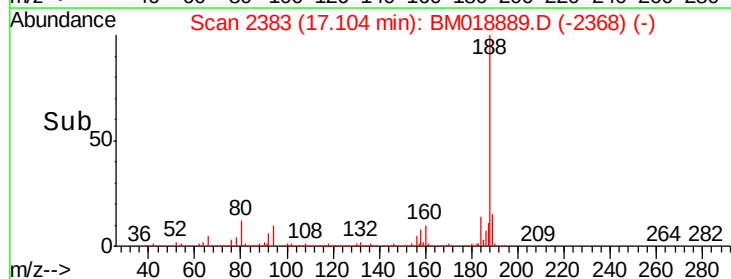
80 12.5 9.7 14.5

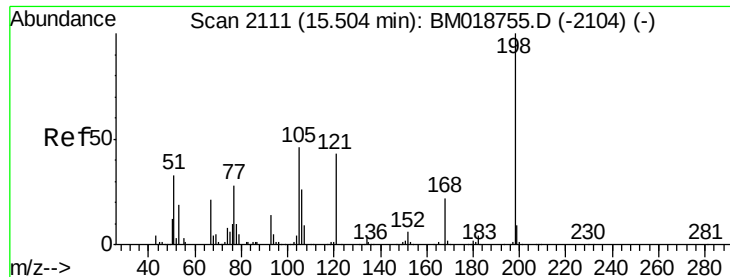


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0

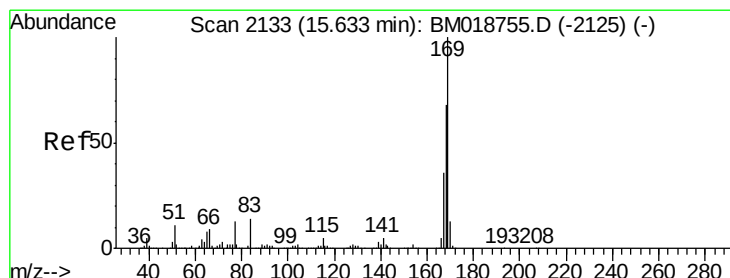
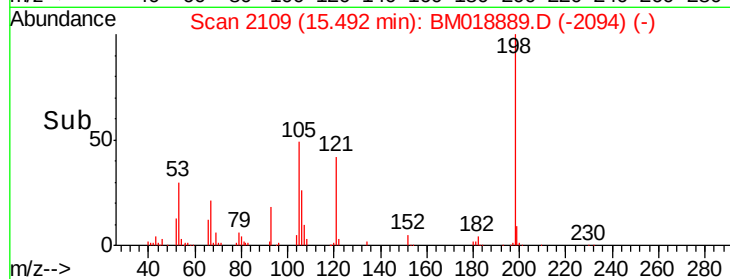
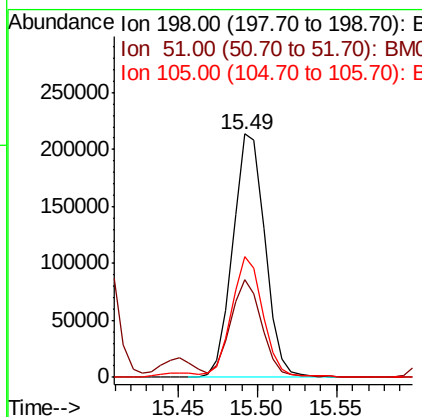
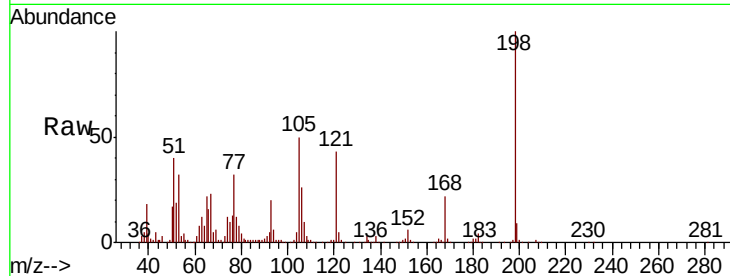




#65  
4,6-Dinitro-2-methylphenol  
Concen: 25.417 ng  
RT: 15.49 min Scan# 2109  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

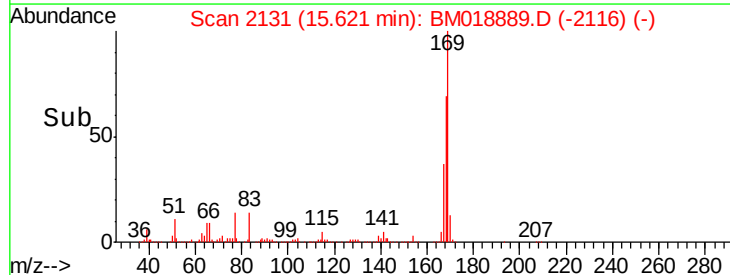
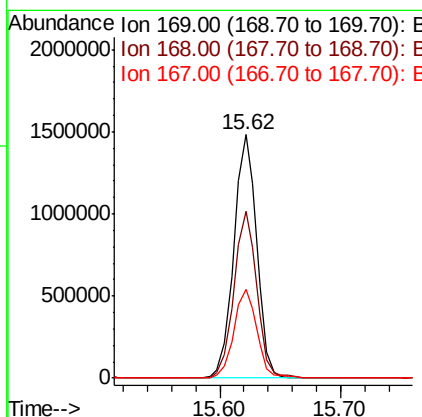
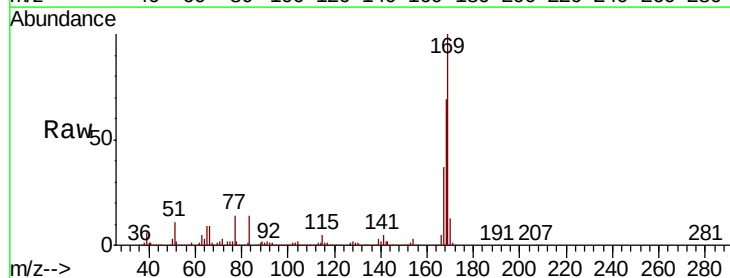
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

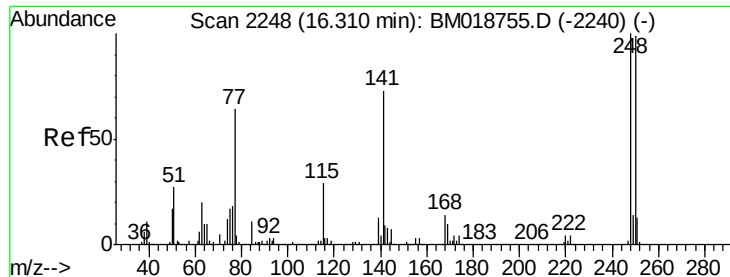
Tgt Ion:198 Resp: 301956  
Ion Ratio Lower Upper  
198 100  
51 40.0 18.4 58.4  
105 49.6 27.2 67.2



#66  
n-Nitrosodiphenylamine  
Concen: 36.497 ng  
RT: 15.62 min Scan# 2131  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:169 Resp: 1951098  
Ion Ratio Lower Upper  
169 100  
168 68.6 54.4 81.6  
167 36.6 29.0 43.6

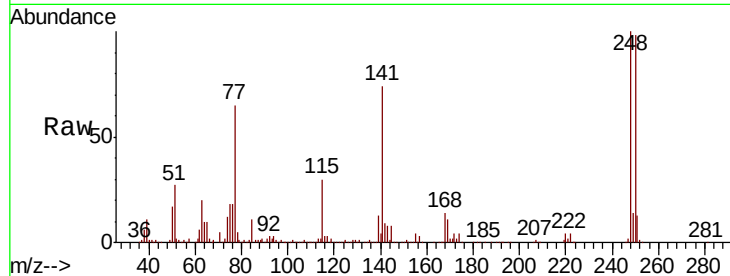




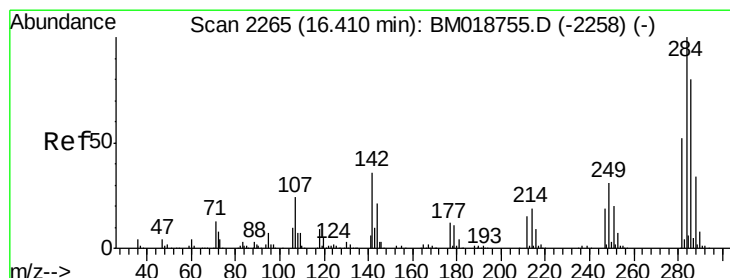
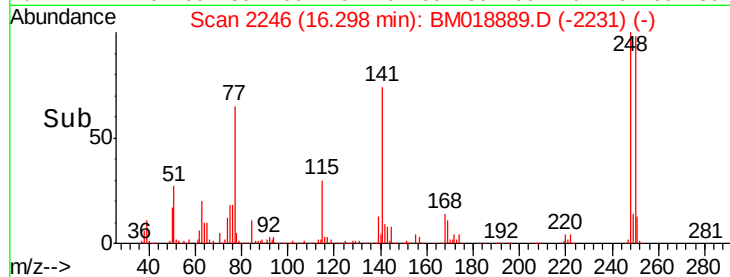
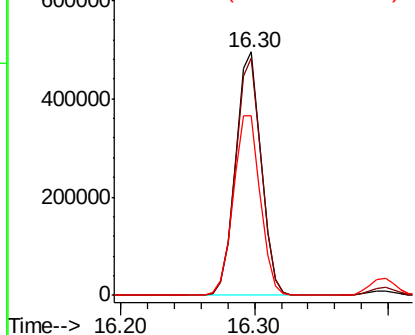
#67  
4-Bromophenyl-phenylether  
Concen: 34.941 ng  
RT: 16.30 min Scan# 2246  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:248 Resp: 661772  
Ion Ratio Lower Upper  
248 100  
250 97.6 79.0 118.6  
141 73.8 58.6 88.0

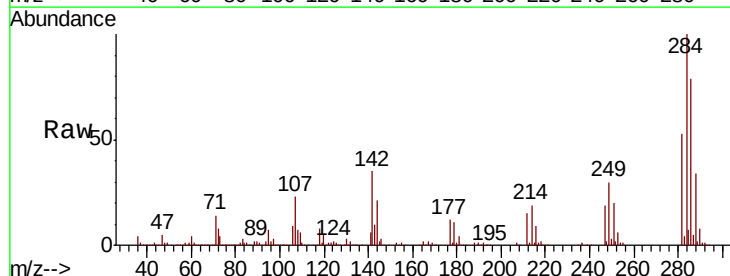


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

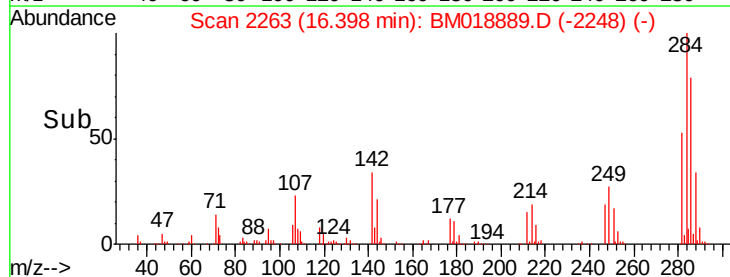
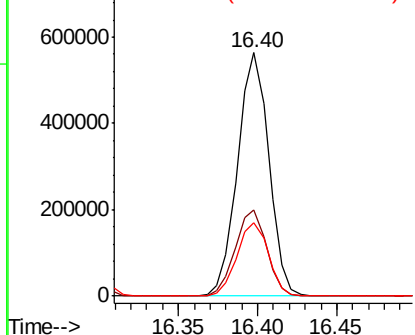


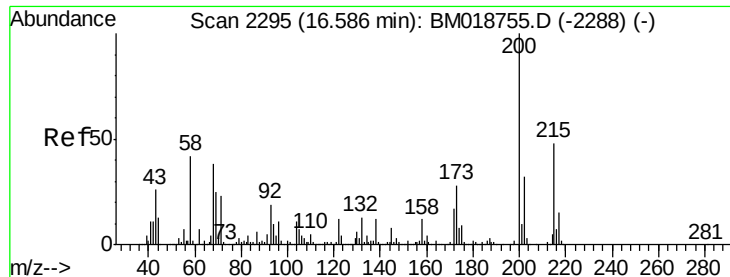
#68  
Hexachlorobenzene  
Concen: 35.020 ng  
RT: 16.40 min Scan# 2263  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:284 Resp: 770949  
Ion Ratio Lower Upper  
284 100  
142 35.4 28.9 43.3  
249 30.4 24.8 37.2



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





#69

Atrazine

Concen: 37.644 ng

RT: 16.58 min Scan# 2294

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

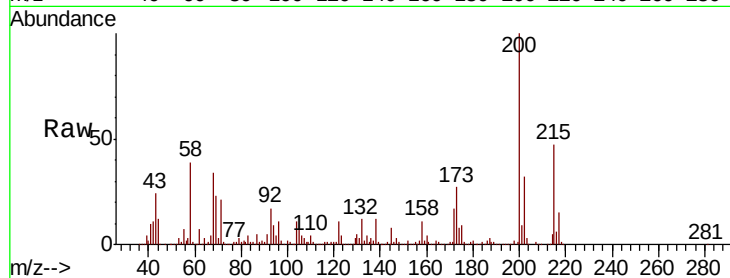
Tgt Ion:200 Resp: 648766

Ion Ratio Lower Upper

200 100

173 27.5 7.6 47.6

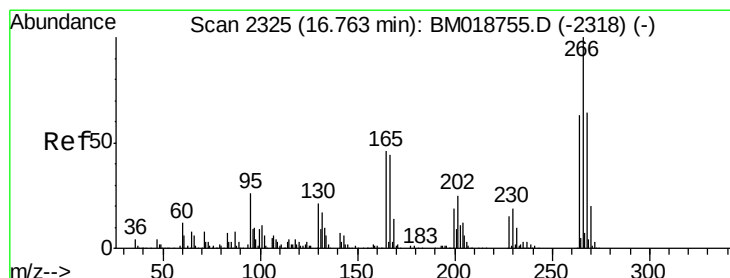
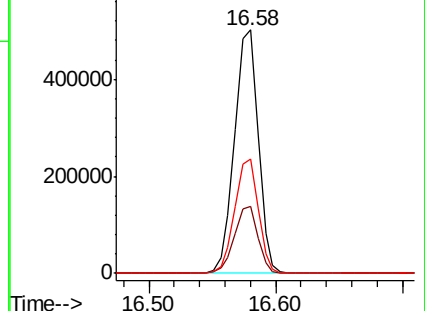
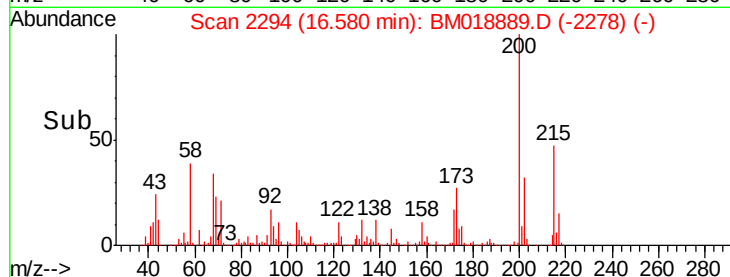
215 47.2 27.6 67.6



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: 69.130 ng

RT: 16.75 min Scan# 2323

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

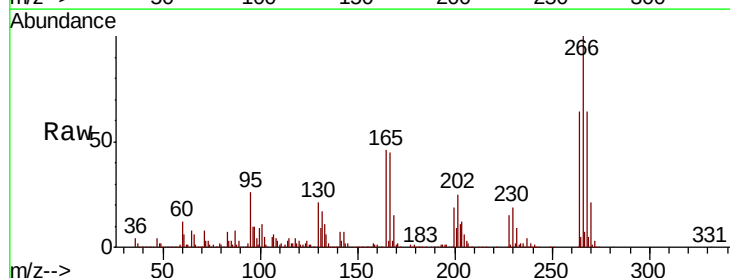
Tgt Ion:266 Resp: 979881

Ion Ratio Lower Upper

266 100

268 64.0 51.3 76.9

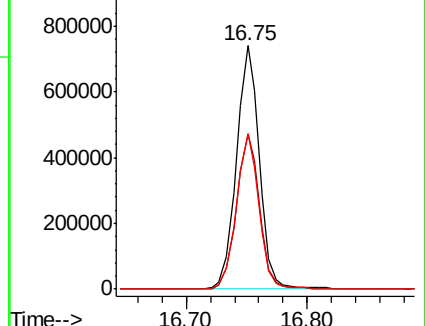
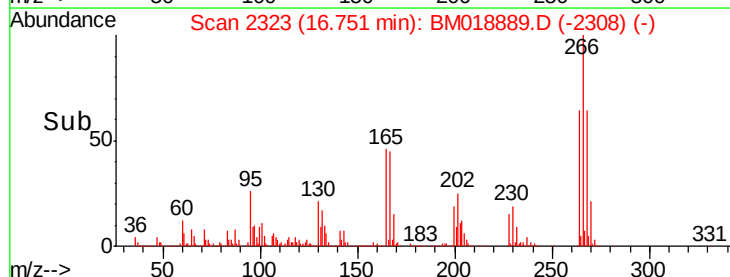
264 63.6 50.6 75.8

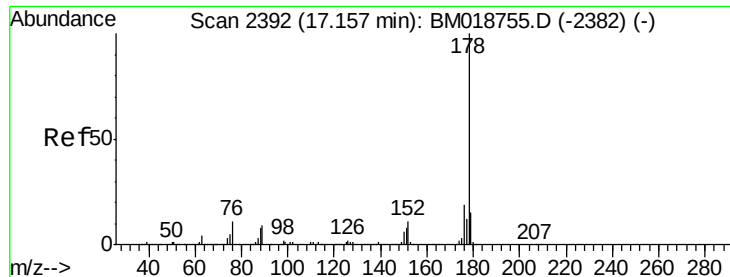


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

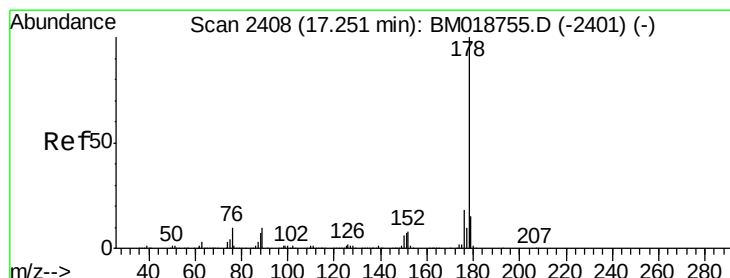
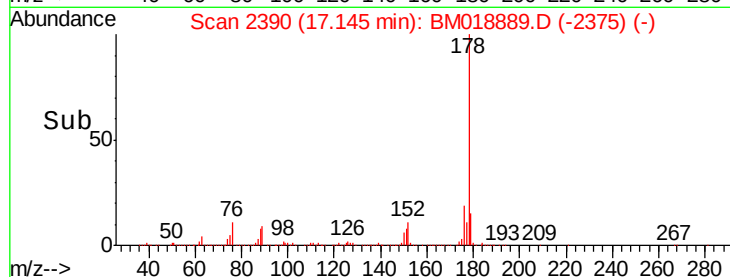
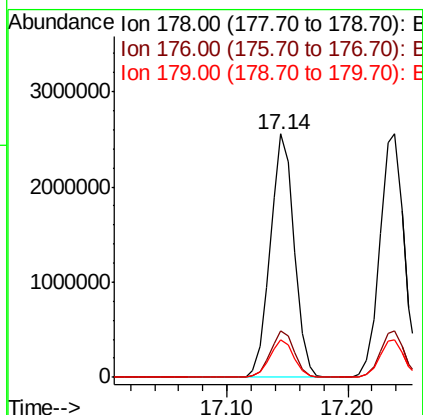
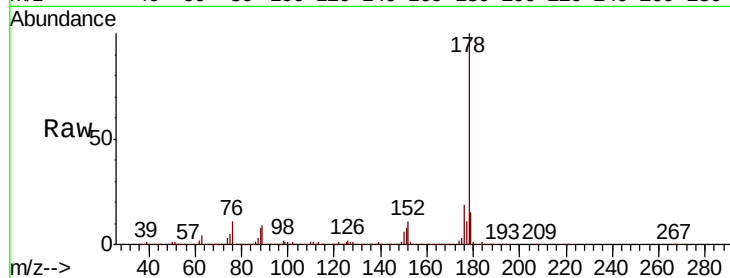




#71  
Phenanthrene  
Concen: 38.716 ng  
RT: 17.14 min Scan# 2390  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

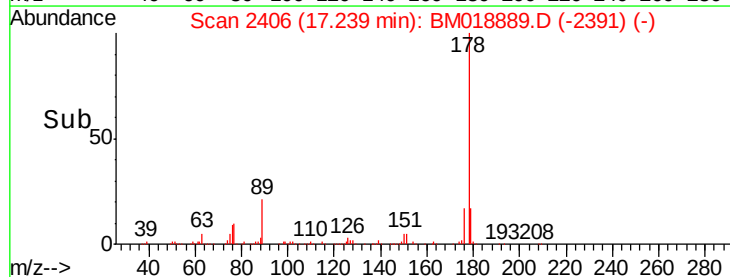
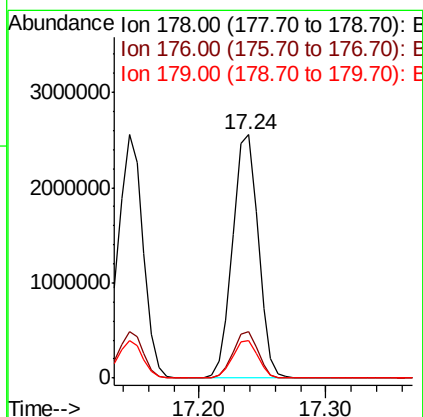
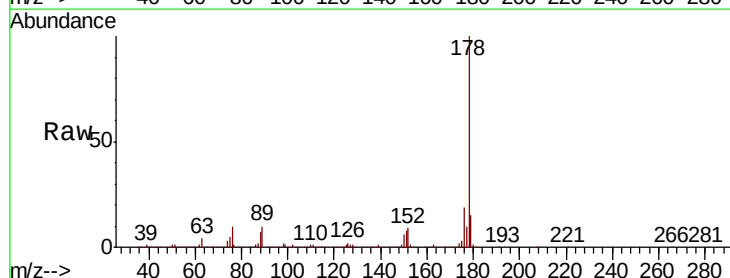
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:178 Resp: 3520535  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.0  
179 15.5 12.3 18.5

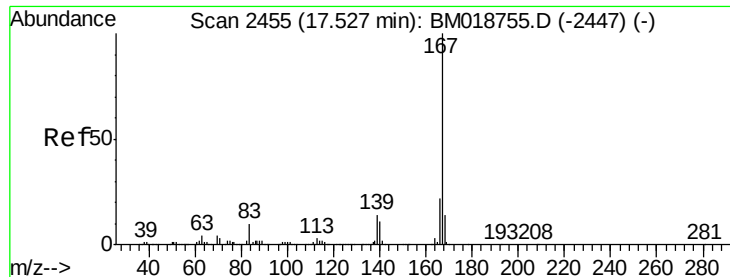


#72  
Anthracene  
Concen: 40.246 ng  
RT: 17.24 min Scan# 2406  
Delta R.T. -0.01 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:178 Resp: 3562127  
Ion Ratio Lower Upper  
178 100  
176 18.9 14.8 22.2  
179 15.4 12.1 18.1



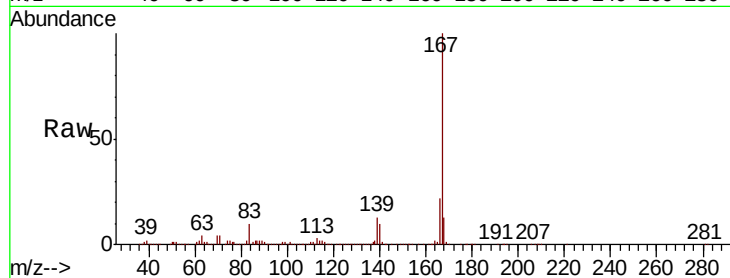




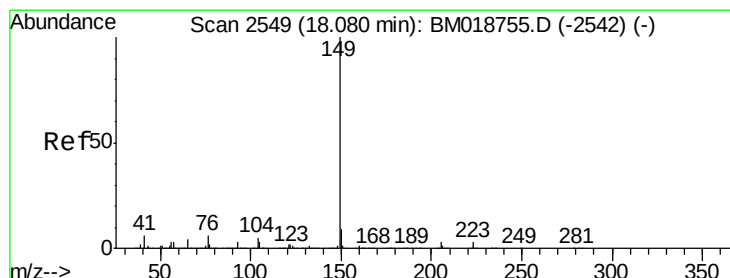
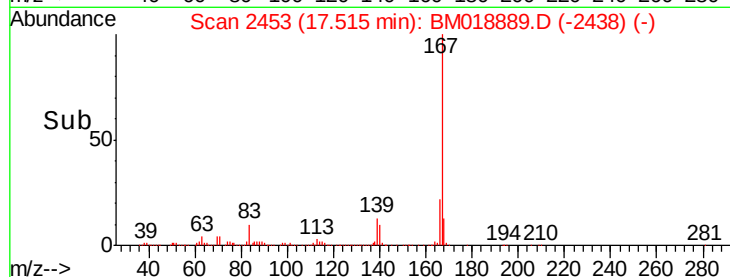
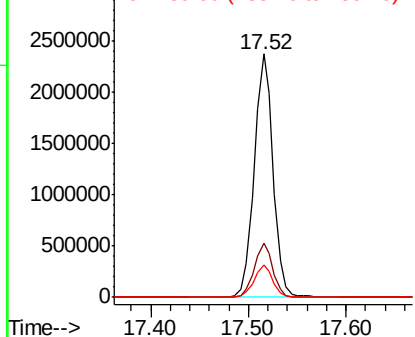
#73  
 Carbazole  
 Concen: 34.986 ng  
 RT: 17.52 min Scan# 2453  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-PILEMS

Tgt Ion:167 Resp: 3235184  
 Ion Ratio Lower Upper  
 167 100  
 166 22.1 17.7 26.5  
 139 13.2 10.9 16.3

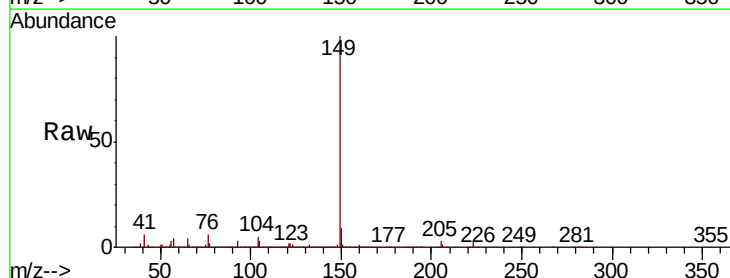


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

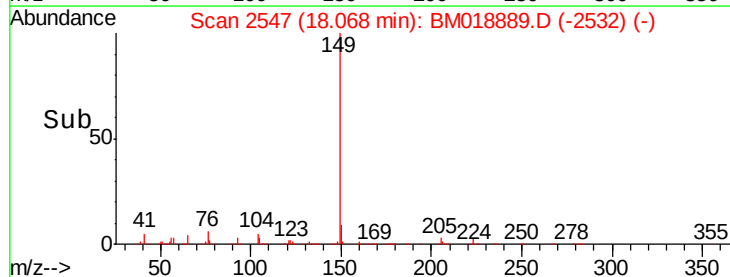
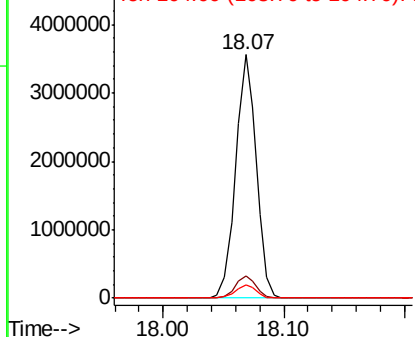


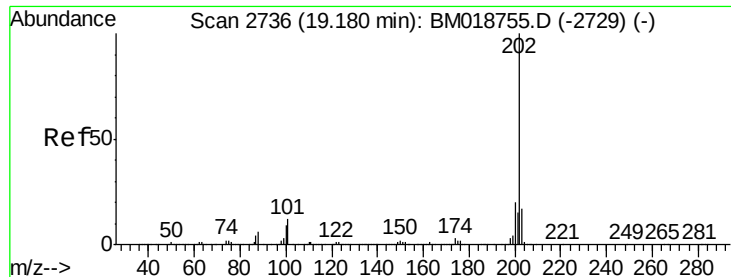
#74  
 Di-n-butylphthalate  
 Concen: 39.699 ng  
 RT: 18.07 min Scan# 2547  
 Delta R.T. -0.01 min  
 Lab File: BM018889.D  
 Acq: 20 Feb 2019 18:28

Tgt Ion:149 Resp: 4221839  
 Ion Ratio Lower Upper  
 149 100  
 150 9.2 7.4 11.0  
 104 5.4 4.3 6.5



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: 38.477 ng

RT: 19.17 min Scan# 2734

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

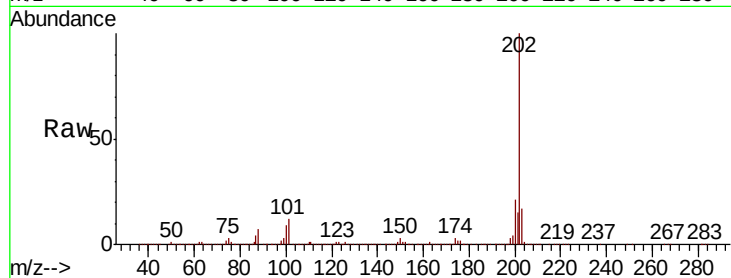
Tgt Ion:202 Resp: 4041542

Ion Ratio Lower Upper

202 100

101 12.4 0.0 31.5

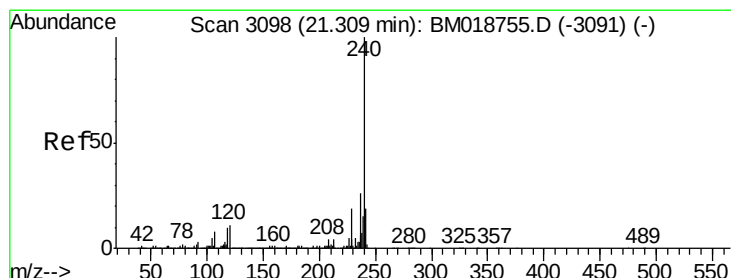
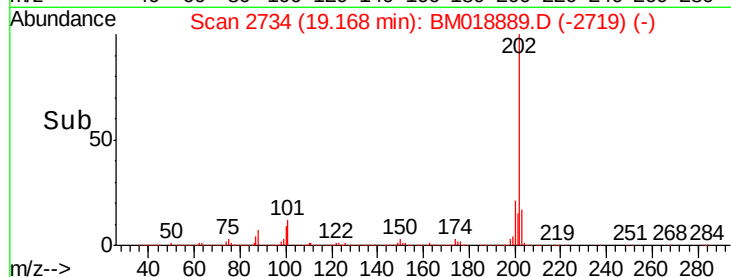
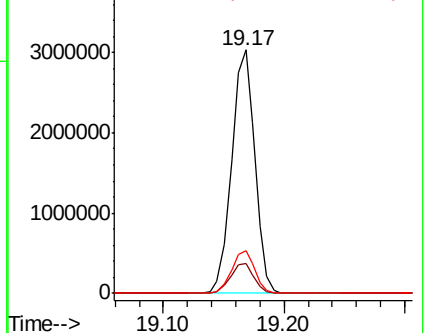
203 17.4 0.0 37.3



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: 21.30 min Scan# 3096

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

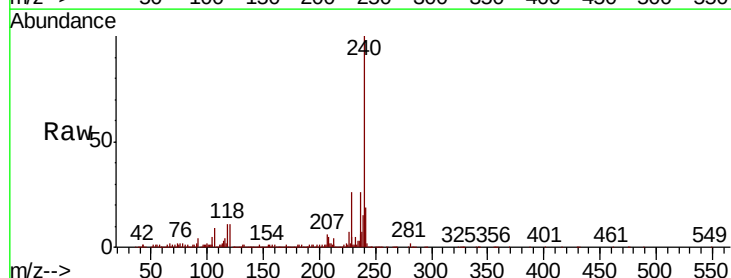
Tgt Ion:240 Resp: 1582763

Ion Ratio Lower Upper

240 100

120 11.3 8.9 13.3

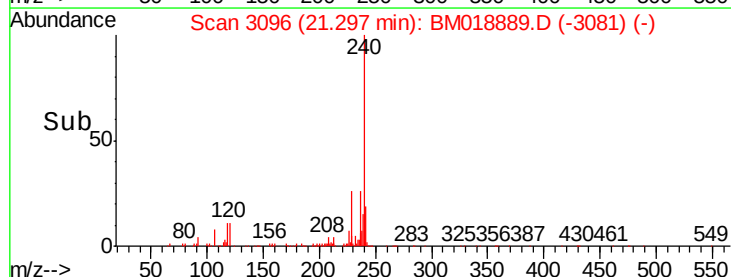
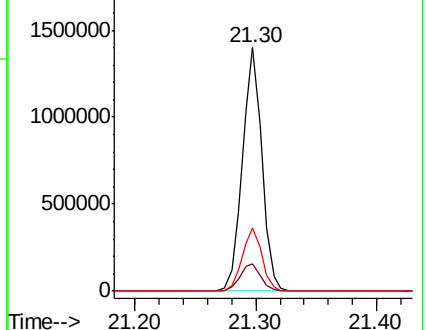
236 26.2 20.9 31.3

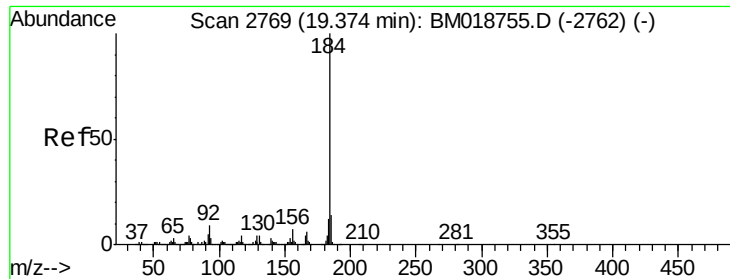


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 63.683 ng

RT: 19.37 min Scan# 2768

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

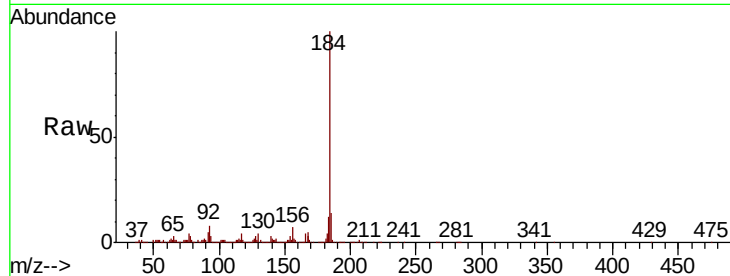
Tgt Ion:184 Resp: 2270033

Ion Ratio Lower Upper

184 100

185 14.1 11.2 16.8

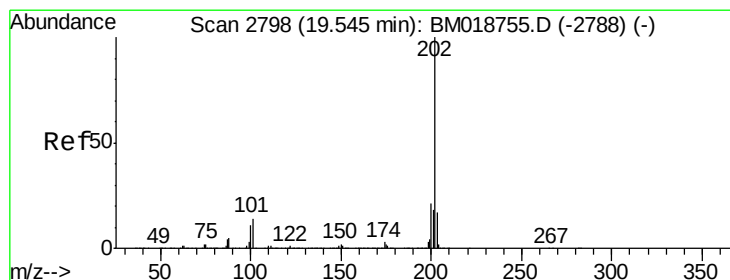
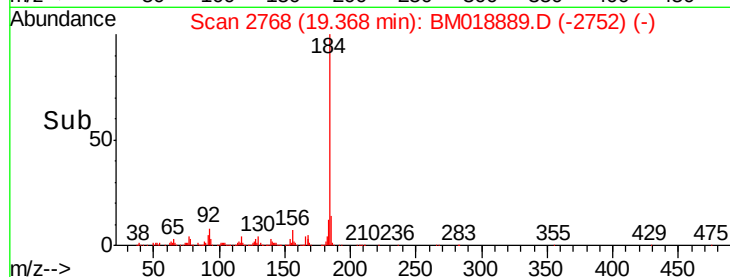
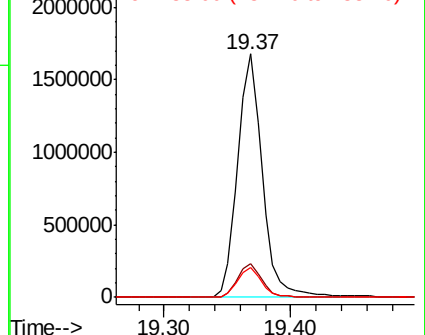
183 12.4 9.7 14.5



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: 44.543 ng

RT: 19.53 min Scan# 2796

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

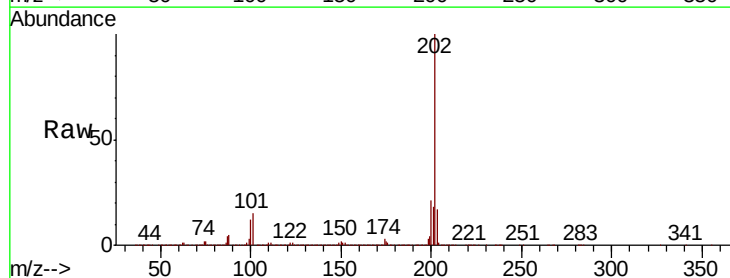
Tgt Ion:202 Resp: 4094615

Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

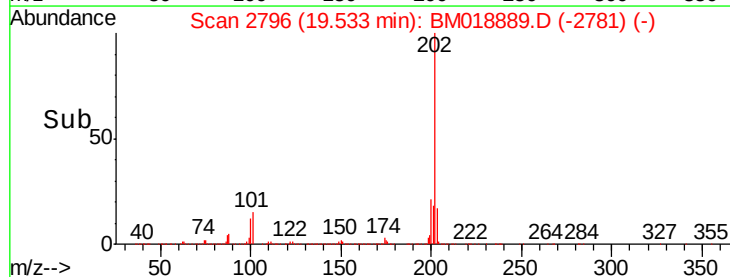
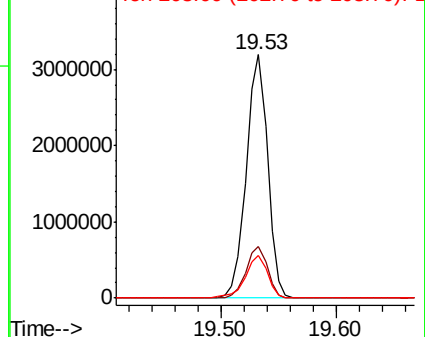
203 17.4 13.8 20.8

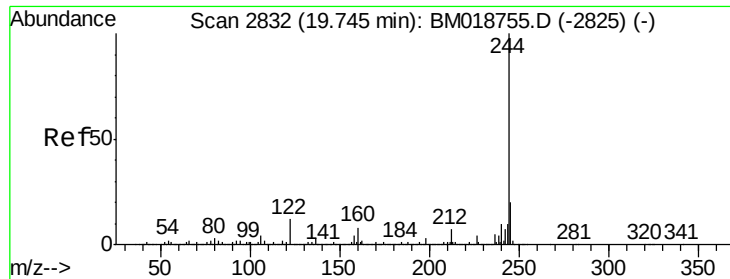


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 83.928 ng

RT: 19.74 min Scan# 2831

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

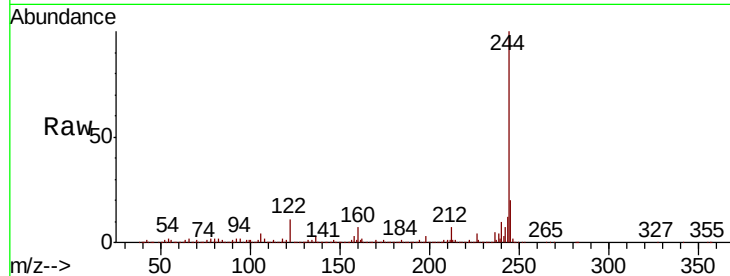
Tgt Ion:244 Resp: 6439432

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

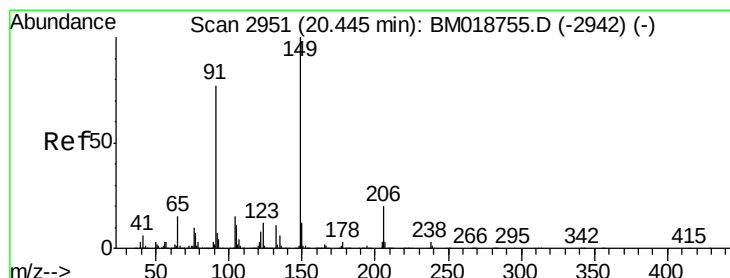
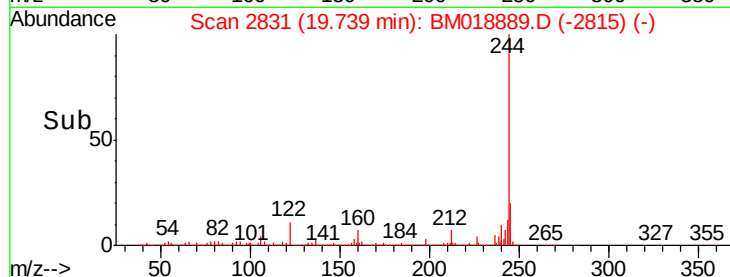
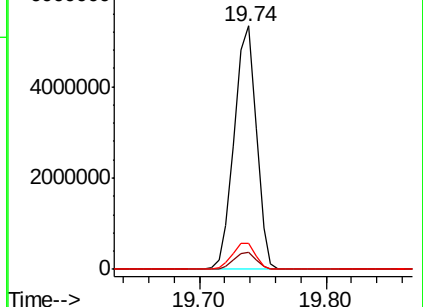
122 10.5 9.3 13.9



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: 47.161 ng

RT: 20.43 min Scan# 2949

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

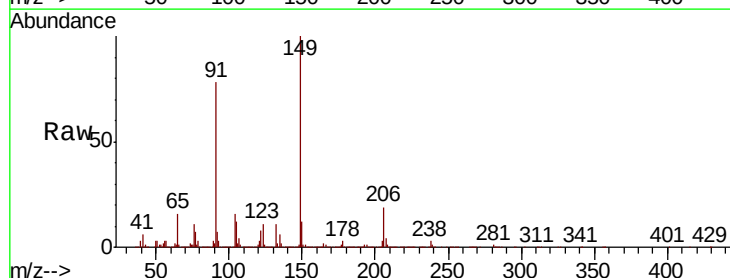
Tgt Ion:149 Resp: 1975742

Ion Ratio Lower Upper

149 100

91 77.7 61.4 92.0

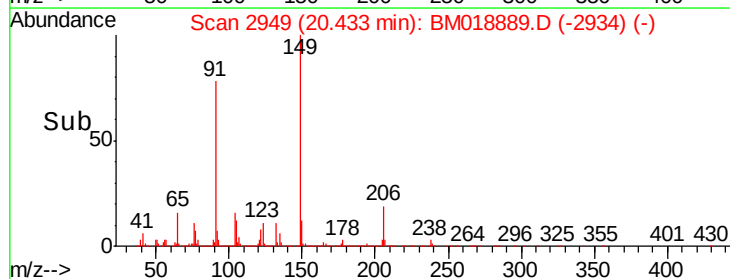
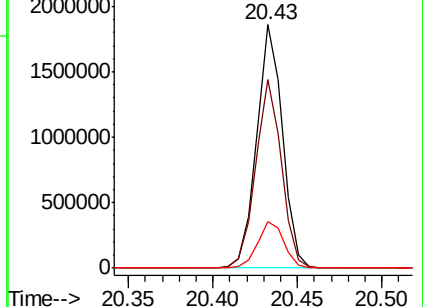
206 19.2 15.8 23.8

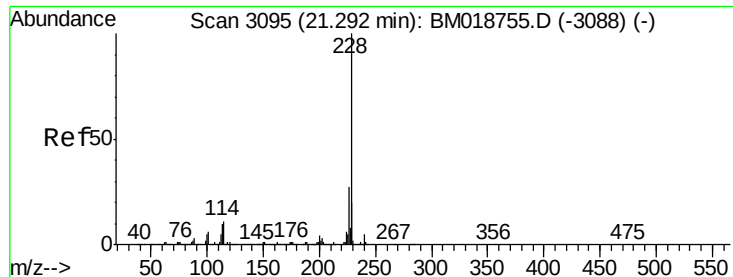


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 39.688 ng

RT: 21.28 min Scan# 3093

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

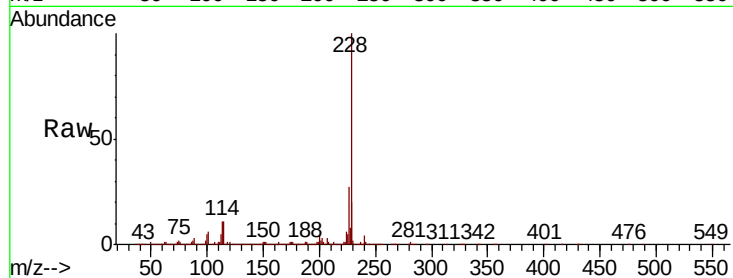
Tgt Ion:228 Resp: 3661700

Ion Ratio Lower Upper

228 100

226 27.4 21.9 32.9

229 19.9 15.9 23.9

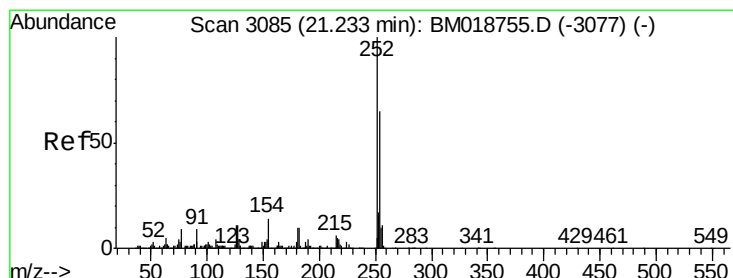
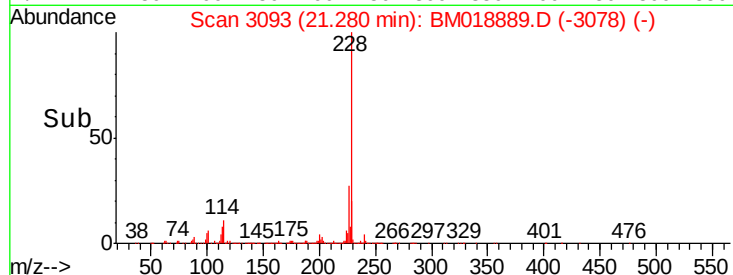
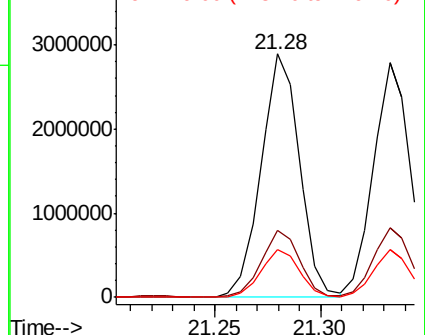


Abundance

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: 33.381 ng

RT: 21.22 min Scan# 3083

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

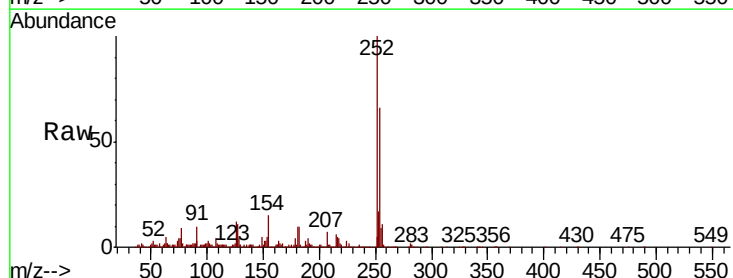
Tgt Ion:252 Resp: 1217200

Ion Ratio Lower Upper

252 100

254 65.7 51.8 77.8

126 11.7 9.1 13.7

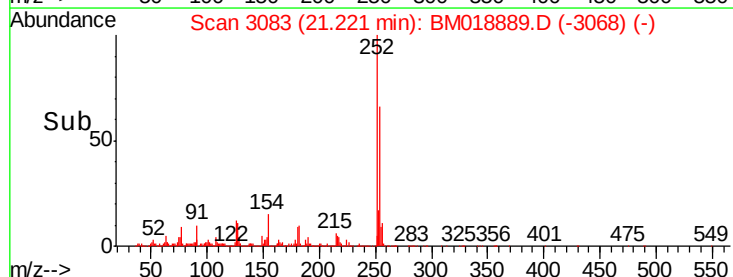
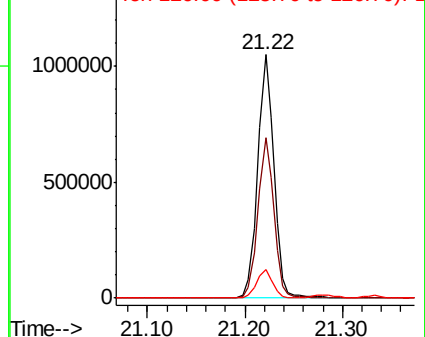


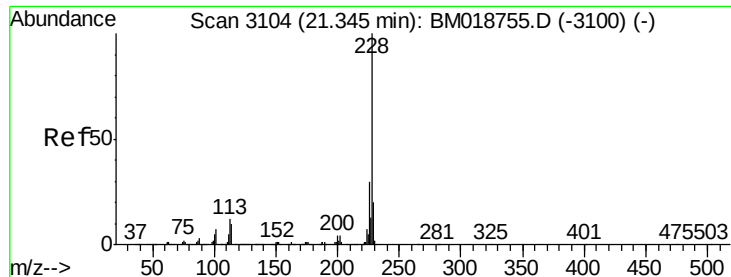
Abundance

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: 38.067 ng

RT: 21.33 min Scan# 3102

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

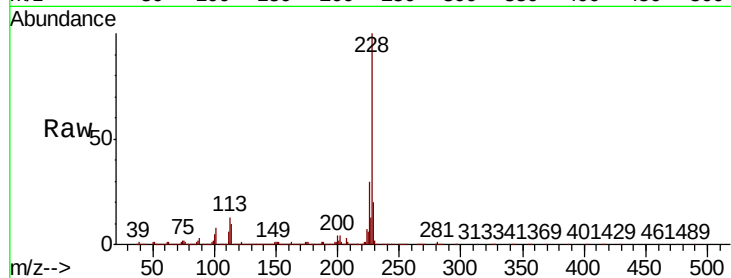
Tgt Ion:228 Resp: 3366351

Ion Ratio Lower Upper

228 100

226 30.0 24.1 36.1

229 20.2 16.0 24.0

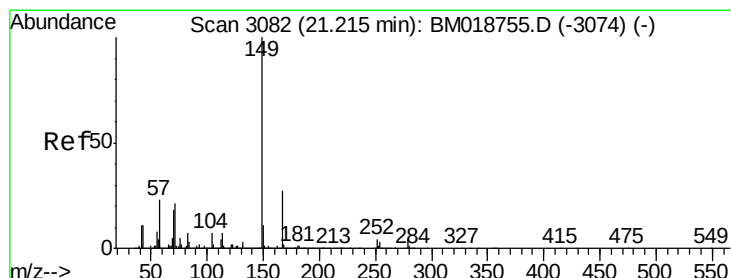
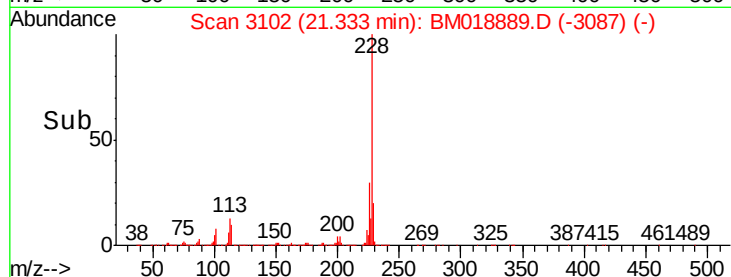
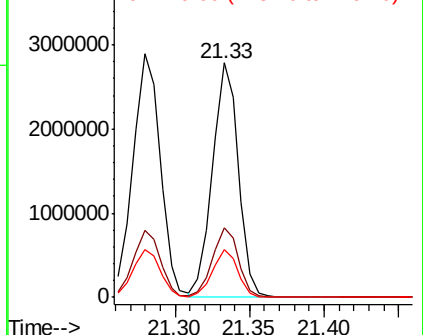


Abundance

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



#84

Bis(2-ethylhexyl)phthalate

Concen: 46.960 ng

RT: 21.20 min Scan# 3080

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

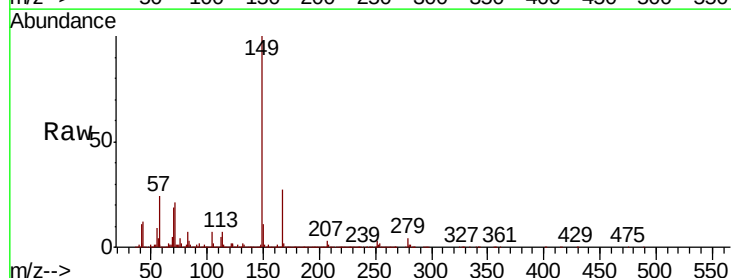
Tgt Ion:149 Resp: 2879428

Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.6

279 4.4 3.6 5.4

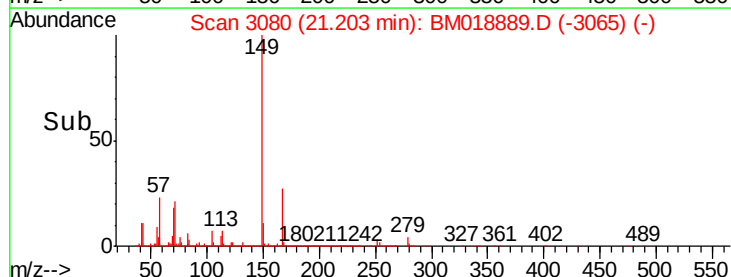
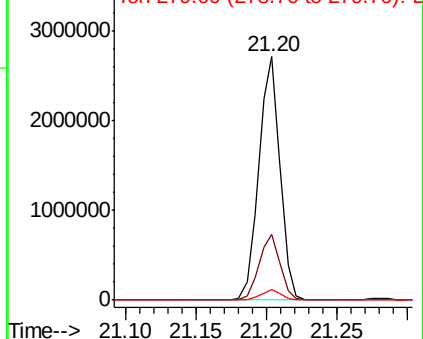


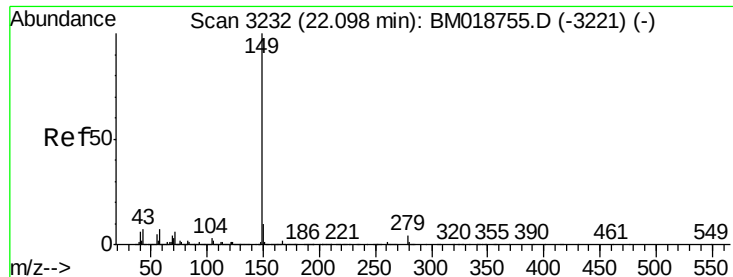
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 44.262 ng

RT: 22.09 min Scan# 3230

Delta R.T. -0.01 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

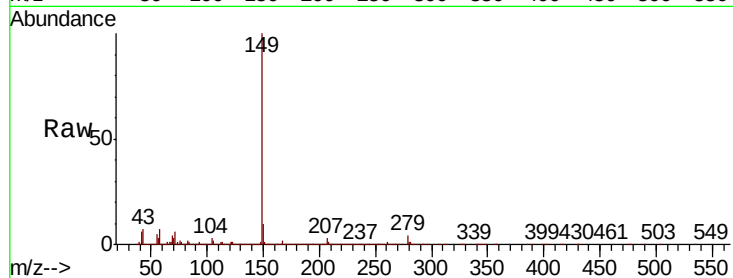
Tgt Ion:149 Resp: 4561422

Ion Ratio Lower Upper

149 100

167 1.5 1.3 1.9

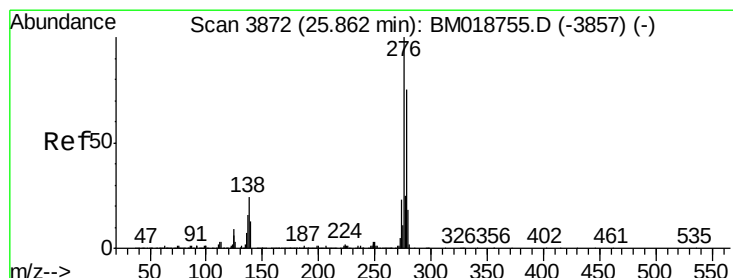
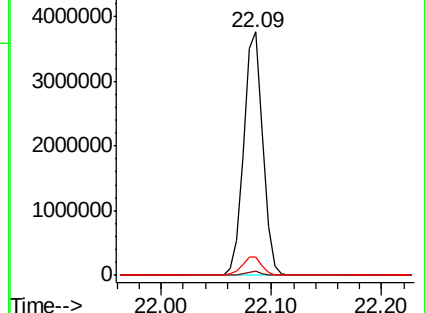
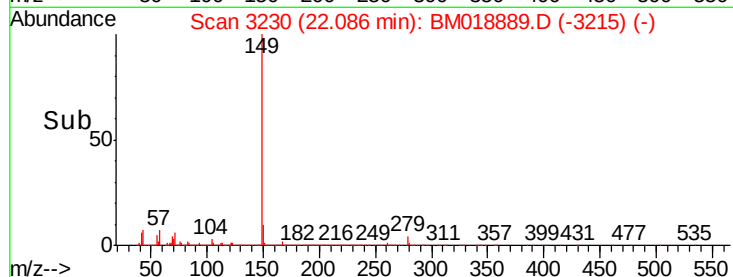
43 7.5 6.0 9.0



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): BM



#86

Indeno(1,2,3-cd)pyrene

Concen: 31.410 ng

RT: 25.83 min Scan# 3867

Delta R.T. -0.03 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

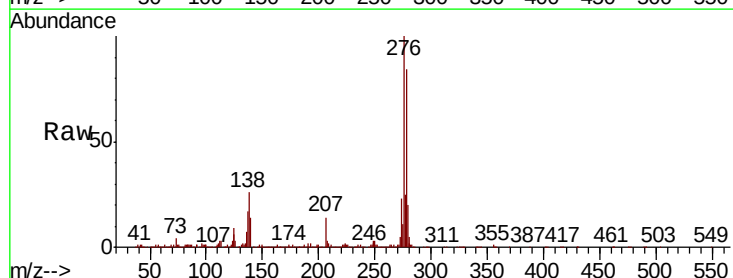
Tgt Ion:276 Resp: 3206935

Ion Ratio Lower Upper

276 100

138 25.4 20.2 30.4

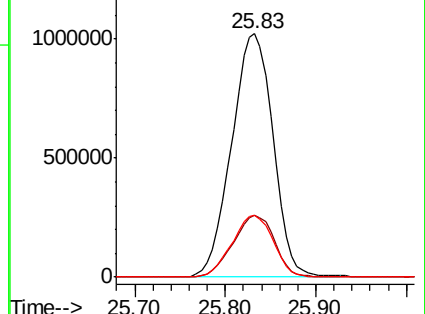
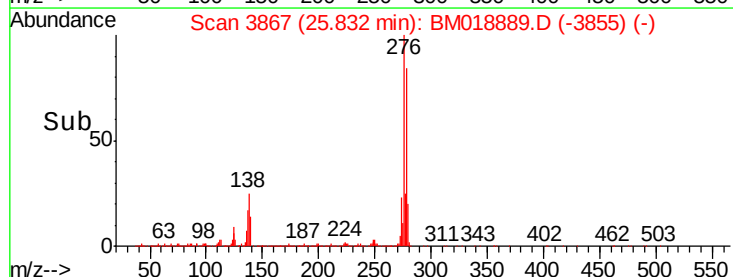
277 25.3 20.3 30.5

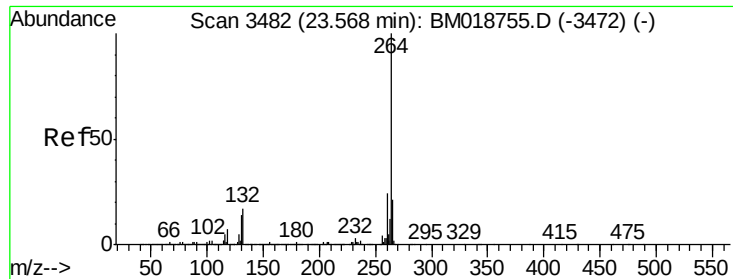


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



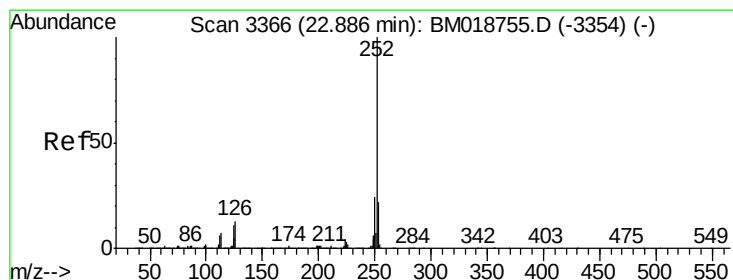
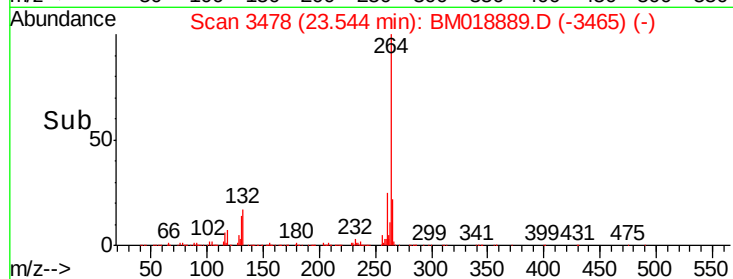
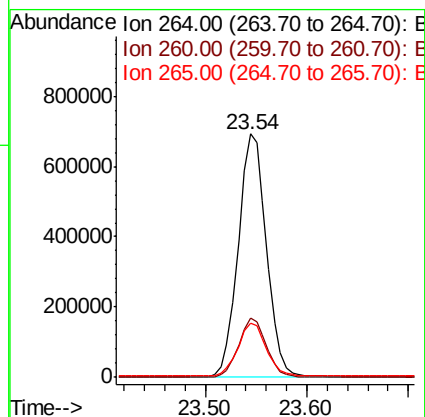
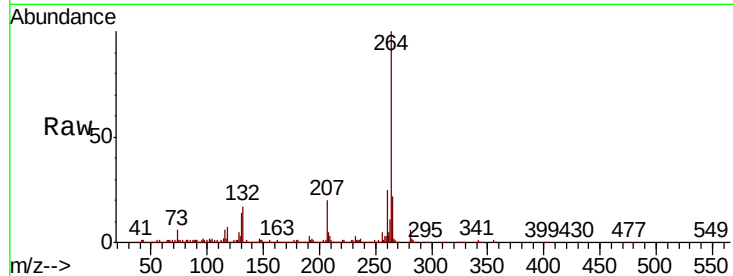


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.54 min Scan# 3478  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

Tgt Ion:264 Resp: 1335162  

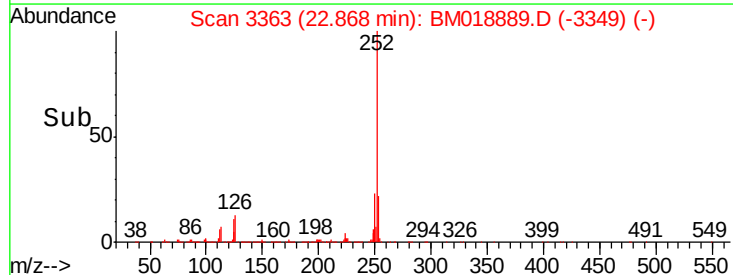
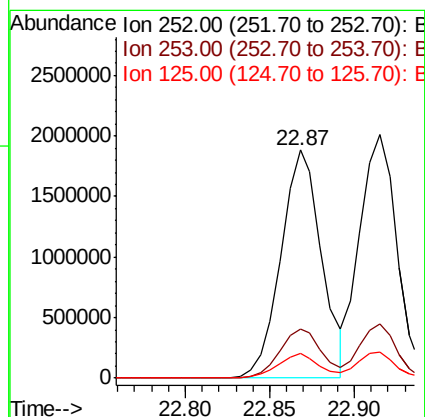
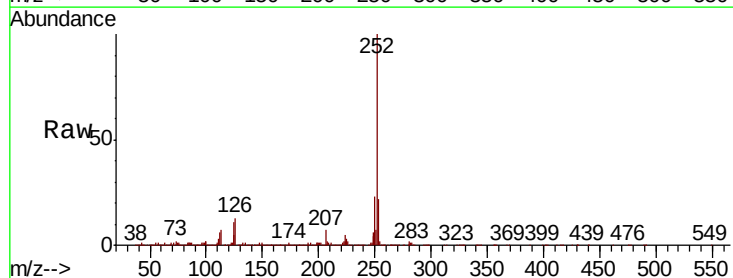
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.5  | 18.9  | 28.3  |
| 265 | 22.5  | 17.3  | 25.9  |



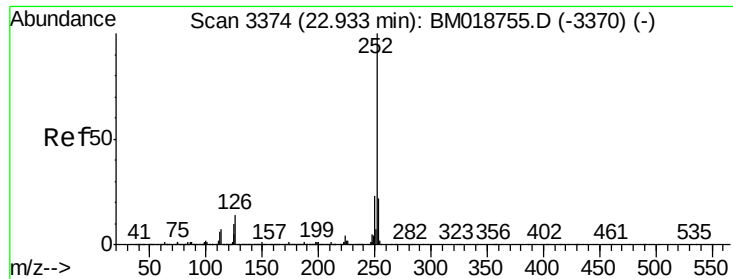
#88  
Benzo(b)fluoranthene  
Concen: 41.311 ng  
RT: 22.87 min Scan# 3363  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:252 Resp: 3155720  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 21.7  | 17.8  | 26.6  |
| 125 | 10.7  | 8.6   | 12.8  |



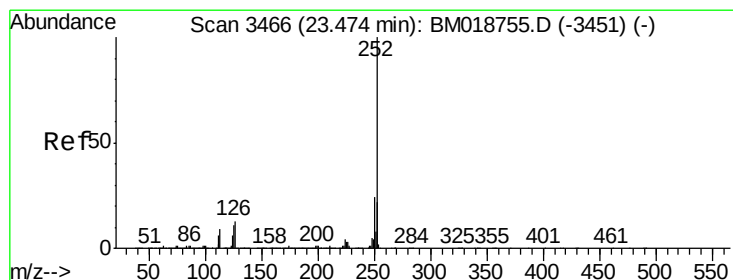
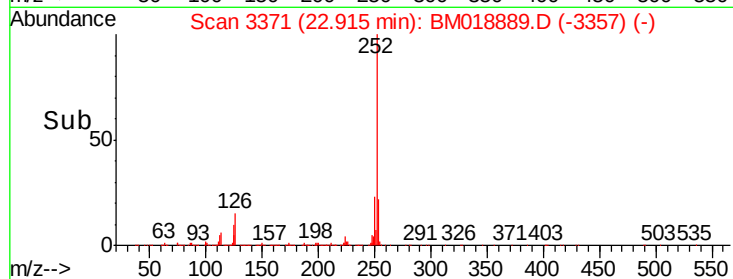
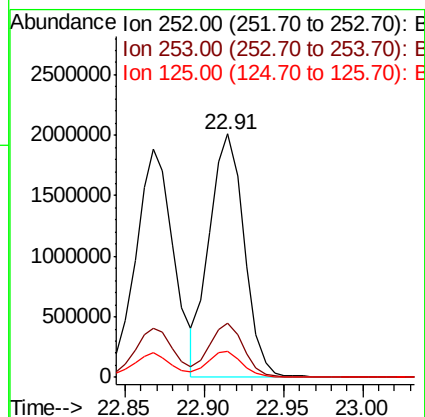
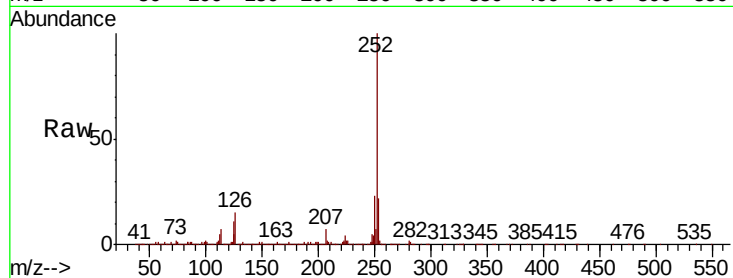




#89  
Benzo(k)fluoranthene  
Concen: 40.438 ng  
RT: 22.91 min Scan# 3371  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

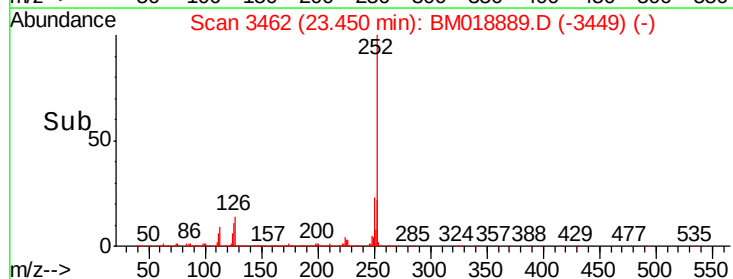
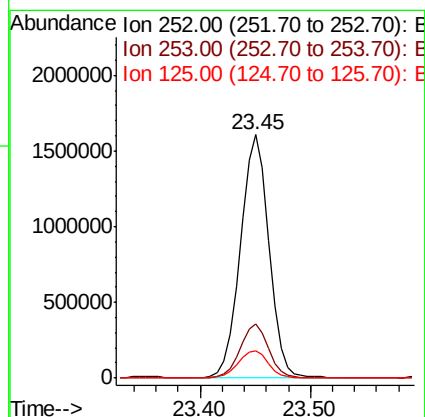
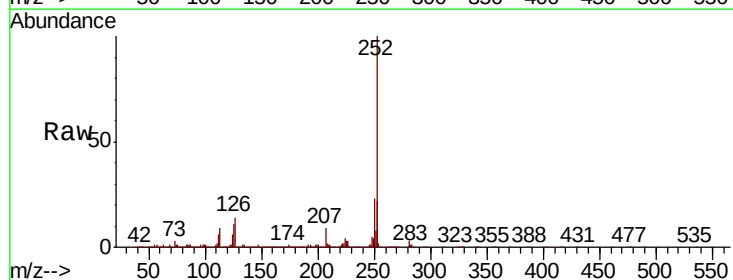
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-PILEMS

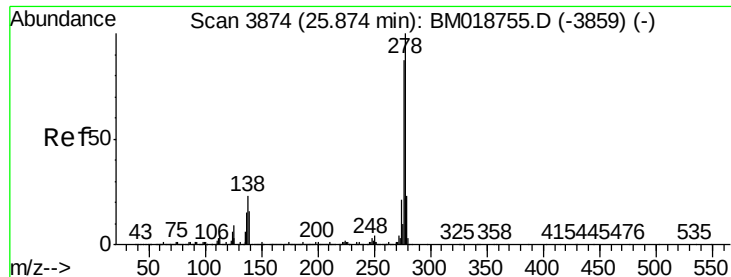
Tgt Ion:252 Resp: 3075362  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.7 26.5  
125 10.6 8.2 12.4



#90  
Benzo(a)pyrene  
Concen: 40.353 ng  
RT: 23.45 min Scan# 3462  
Delta R.T. -0.02 min  
Lab File: BM018889.D  
Acq: 20 Feb 2019 18:28

Tgt Ion:252 Resp: 2920159  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.4 26.0  
125 11.3 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 38.498 ng

RT: 25.84 min Scan# 3869

Delta R.T. -0.03 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

Instrument :

BNA\_M

ClientSampleId :

SOIL-PILEMS

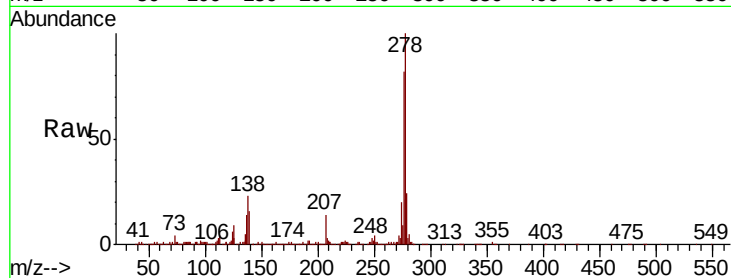
Tgt Ion:278 Resp: 2760157

Ion Ratio Lower Upper

278 100

139 16.3 12.6 18.8

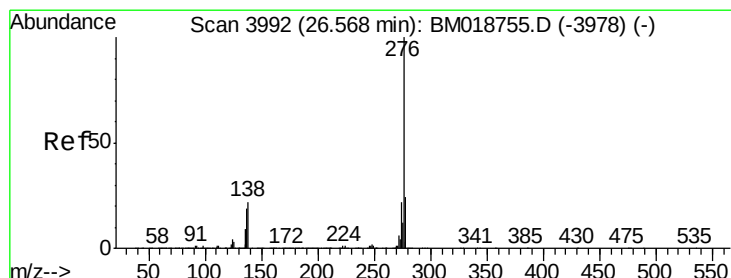
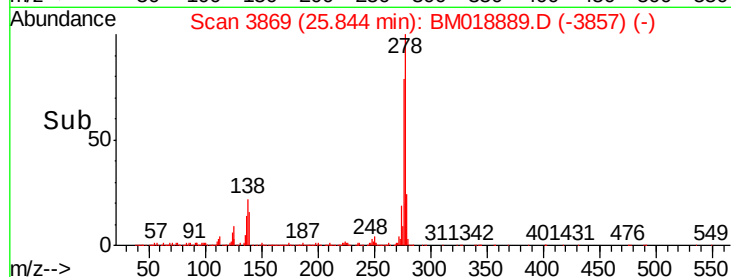
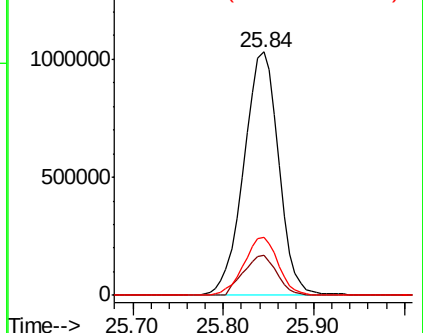
279 23.7 18.6 28.0



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: 39.317 ng

RT: 26.53 min Scan# 3986

Delta R.T. -0.04 min

Lab File: BM018889.D

Acq: 20 Feb 2019 18:28

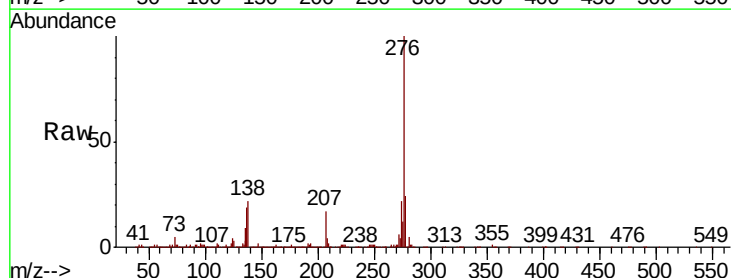
Tgt Ion:276 Resp: 2624277

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 21.6 17.3 25.9



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

