

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081318\  
 Data File : BM016327.D  
 Acq On : 13 Aug 2018 16:10  
 Operator : SJ/JU  
 Sample : J4405-04MS  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

Quant Time: Aug 14 03:51:59 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM072318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 10 18:44:22 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 29150    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.94 | 136  | 104410   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.76 | 164  | 53693    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 17.49 | 188  | 104438   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 21.62 | 240  | 132143   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 23.95 | 264  | 139484   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 229900 | 131.01 | ng | 0.00  |
| 7) Phenol-d6             | 7.30  | 99  | 241311 | 105.30 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 9.31  | 82  | 237666 | 105.87 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 16.25 | 330 | 90401  | 132.75 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 13.38 | 172 | 445665 | 100.99 | ng | -0.01 |
| 78) Terphenyl-d14        | 20.07 | 244 | 668873 | 105.96 | ng | -0.01 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.46  | 88  | 33752  | 41.051 | ng | # 100  |
| 3) Pyridine                    | 3.90  | 79  | 45361  | 22.902 | ng | # 70   |
| 4) n-Nitrosodimethylamine      | 3.80  | 42  | 80136  | 51.872 | ng | # 26   |
| 6) Aniline                     | 7.46  | 93  | 35618  | 13.498 | ng | # 89   |
| 8) 2-Chlorophenol              | 7.69  | 128 | 82415  | 39.516 | ng | 93     |
| 9) Benzaldehyde                | 7.27  | 77  | 29529  | 18.339 | ng | 89     |
| 10) Phenol                     | 7.32  | 94  | 73605  | 32.120 | ng | 86     |
| 11) bis(2-Chloroethyl)ether    | 7.55  | 93  | 69972  | 38.652 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 8.00  | 146 | 93915  | 38.470 | ng | # 85   |
| 13) 1,4-Dichlorobenzene        | 8.16  | 146 | 93876  | 37.916 | ng | # 90   |
| 14) 1,2-Dichlorobenzene        | 8.47  | 146 | 93083  | 38.422 | ng | # 93   |
| 15) Benzyl Alcohol             | 8.38  | 79  | 70801  | 38.800 | ng | # 79   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.65  | 45  | 93147  | 33.619 | ng | 95     |
| 17) 2-Methylphenol             | 8.58  | 107 | 59625  | 38.068 | ng | # 78   |
| 18) Hexachloroethane           | 9.19  | 117 | 48133  | 44.974 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 8.94  | 70  | 63939  | 38.172 | ng | # 71   |
| 20) 3+4-Methylphenols          | 8.92  | 107 | 76436  | 33.919 | ng | # 84   |
| 22) Acetophenone               | 8.97  | 105 | 126456 | 48.100 | ng | # 76   |
| 24) Nitrobenzene               | 9.35  | 77  | 107927 | 47.764 | ng | 92     |
| 25) Isophorone                 | 9.87  | 82  | 162647 | 52.969 | ng | # 92   |
| 26) 2-Nitrophenol              | 10.06 | 139 | 40538  | 42.977 | ng | # 38   |
| 27) 2,4-Dimethylphenol         | 10.12 | 122 | 67317  | 51.225 | ng | # 77   |
| 28) bis(2-Chloroethoxy)methane | 10.35 | 93  | 89431  | 44.811 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 10.60 | 162 | 70058  | 44.864 | ng | 97     |
| 30) 1,2,4-Trichlorobenzene     | 10.80 | 180 | 84709  | 44.646 | ng | # 96   |
| 31) Naphthalene                | 10.99 | 128 | 250934 | 47.487 | ng | 99     |
| 32) Benzoic acid               | 10.30 | 122 | 33989  | 33.929 | ng | # 83   |
| 33) 4-Chloroaniline            | 11.12 | 127 | 18998  | 8.810  | ng | # 88   |
| 34) Hexachlorobutadiene        | 11.24 | 225 | 67814  | 51.527 | ng | 95     |
| 35) Caprolactam                | 11.93 | 113 | 12319  | 28.483 | ng | 93     |
| 36) 4-Chloro-3-methylphenol    | 12.24 | 107 | 74657  | 43.467 | ng | # 84   |
| 37) 2-Methylnaphthalene        | 12.59 | 142 | 176745 | 49.930 | ng | # 87   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.95 | 216 | 93100  | 50.931 | ng | # 100  |
| 40) Hexachlorocyclopentadiene  | 12.91 | 237 | 56561  | 64.664 | ng | 97     |

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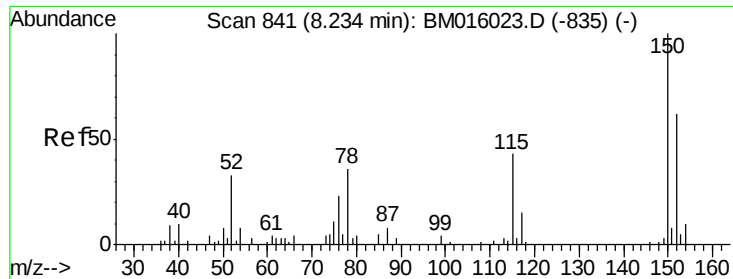
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

Quant Time: Aug 14 03:51:59 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\8270-BM072318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 10 18:44:22 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.20 | 196  | 54275    | 47.457 | ng    | 96       |
| 43) 2,4,5-Trichlorophenol      | 13.29 | 196  | 54307    | 46.035 | ng #  | 82       |
| 45) 1,1'-Biphenyl              | 13.59 | 154  | 217900   | 44.968 | ng    | 98       |
| 46) 2-Chloronaphthalene        | 13.64 | 162  | 166612   | 44.208 | ng #  | 88       |
| 47) 2-Nitroaniline             | 13.87 | 65   | 55832    | 44.809 | ng #  | 83       |
| 48) Acenaphthylene             | 14.49 | 152  | 262260   | 47.534 | ng    | 98       |
| 49) Dimethylphthalate          | 14.22 | 163  | 217182   | 46.219 | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.36 | 165  | 40650    | 42.995 | ng #  | 27       |
| 51) Acenaphthene               | 14.82 | 154  | 151469   | 44.638 | ng    | 92       |
| 52) 3-Nitroaniline             | 14.69 | 138  | 23406    | 22.920 | ng #  | 74       |
| 53) 2,4-Dinitrophenol          | 14.92 | 184  | 26427    | 66.235 | ng #  | 60       |
| 54) Dibenzofuran               | 15.16 | 168  | 248220   | 44.391 | ng #  | 76       |
| 55) 4-Nitrophenol              | 15.01 | 139  | 44147    | 60.305 | ng    | 91       |
| 56) 2,4-Dinitrotoluene         | 15.15 | 165  | 60251    | 44.569 | ng #  | 59       |
| 57) Fluorene                   | 15.80 | 166  | 195133   | 46.961 | ng    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.39 | 232  | 47173    | 46.522 | ng #  | 100      |
| 59) Diethylphthalate           | 15.56 | 149  | 231127   | 45.634 | ng #  | 93       |
| 60) 4-Chlorophenyl-phenylether | 15.79 | 204  | 102982   | 44.520 | ng #  | 80       |
| 61) 4-Nitroaniline             | 15.86 | 138  | 35234    | 35.961 | ng #  | 1        |
| 62) Azobenzene                 | 16.08 | 77   | 264760   | 49.636 | ng #  | 70       |
| 64) 4,6-Dinitro-2-methylphenol | 15.92 | 198  | 22085    | 34.839 | ng #  | 79       |
| 65) n-Nitrosodiphenylamine     | 16.01 | 169  | 159234   | 46.303 | ng    | 98       |
| 66) 4-Bromophenyl-phenylether  | 16.68 | 248  | 57625    | 48.727 | ng #  | 69       |
| 67) Hexachlorobenzene          | 16.80 | 284  | 56021    | 43.016 | ng #  | 48       |
| 68) Atrazine                   | 16.95 | 200  | 58499    | 47.462 | ng    | 94       |
| 69) Pentachlorophenol          | 17.15 | 266  | 55843    | 69.247 | ng    | 96       |
| 70) Phenanthrene               | 17.53 | 178  | 280688   | 48.005 | ng    | 98       |
| 71) Anthracene                 | 17.63 | 178  | 285557   | 50.250 | ng    | 98       |
| 72) Carbazole                  | 17.90 | 167  | 250325   | 42.521 | ng #  | 95       |
| 73) Di-n-butylphthalate        | 18.42 | 149  | 365038   | 49.760 | ng #  | 95       |
| 74) Fluoranthene               | 19.53 | 202  | 333233   | 51.092 | ng    | 98       |
| 76) Benzidine                  | 19.72 | 184  | 53277    | 14.428 | ng    | 98       |
| 77) Pyrene                     | 19.89 | 202  | 342266   | 43.221 | ng    | 97       |
| 79) Butylbenzylphthalate       | 20.75 | 149  | 180351   | 44.832 | ng #  | 76       |
| 80) Benzo(a)anthracene         | 21.61 | 228  | 398577   | 48.972 | ng    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 21.54 | 252  | 94557    | 28.844 | ng    | 98       |
| 82) Chrysene                   | 21.66 | 228  | 376608   | 48.238 | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.50 | 149  | 262474   | 45.020 | ng    | 92       |
| 84) Di-n-octyl phthalate       | 22.39 | 149  | 482727   | 49.264 | ng #  | 89       |
| 85) Indeno(1,2,3-cd)pyrene     | 26.34 | 276  | 492215   | 53.129 | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 23.25 | 252  | 421452   | 51.318 | ng #  | 93       |
| 88) Benzo(k)fluoranthene       | 23.30 | 252  | 396122   | 47.594 | ng #  | 96       |
| 89) Benzo(a)pyrene             | 23.86 | 252  | 398710   | 50.502 | ng    | 98       |
| 90) Dibenzo(a,h)anthracene     | 26.34 | 278  | 421508   | 51.531 | ng #  | 93       |
| 91) Benzo(g,h,i)perylene       | 27.07 | 276  | 385888   | 49.879 | ng #  | 91       |

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

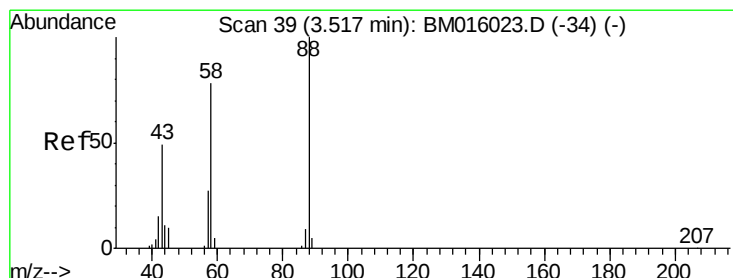
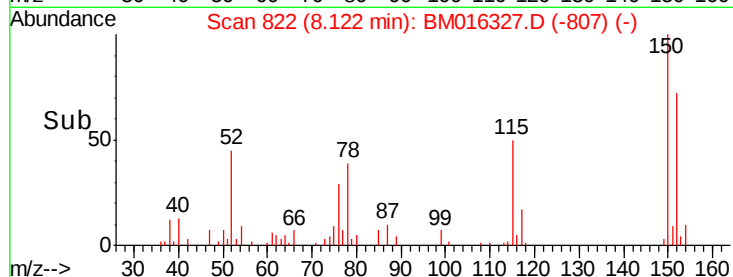
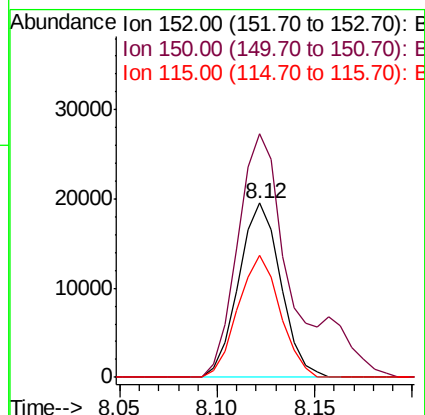
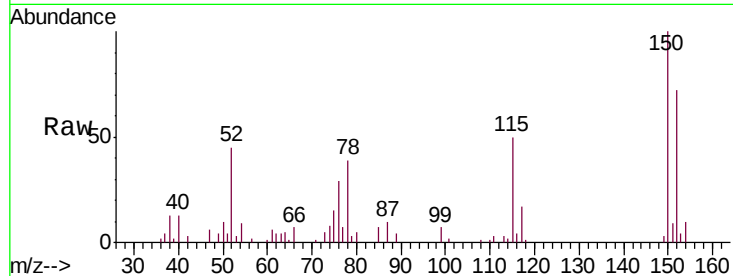




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.12 min Scan# 822  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

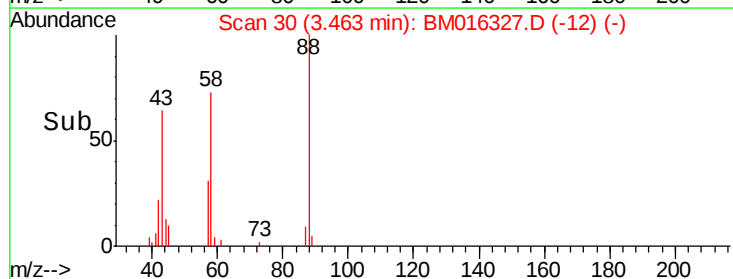
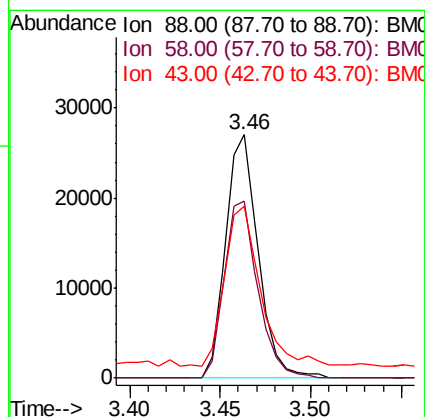
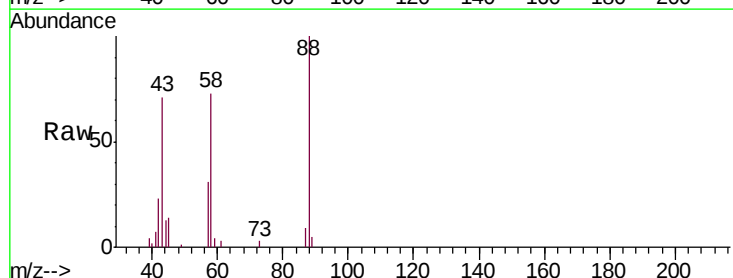
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

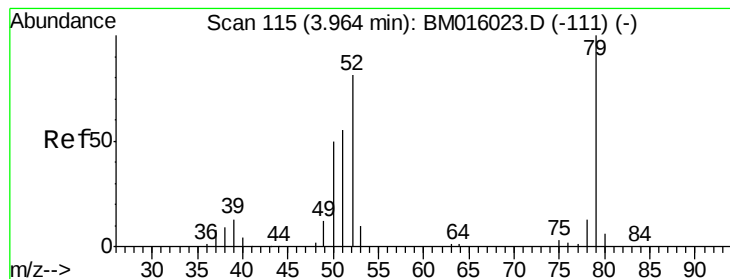
Tgt Ion:152 Resp: 29150  
 Ion Ratio Lower Upper  
 152 100  
 150 139.7 119.5 179.3  
 115 69.6 43.0 64.4#



#2  
 1,4-Dioxane  
 Concen: 41.051 ng  
 RT: 3.46 min Scan# 30  
 Delta R.T. 0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion: 88 Resp: 33752  
 Ion Ratio Lower Upper  
 88 100  
 58 75.0 0.0 0.0#  
 43 72.5 0.0 0.0#





#3

Pyridine

Concen: 22.902 ng

RT: 3.90 min Scan# 104

Delta R.T. 0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

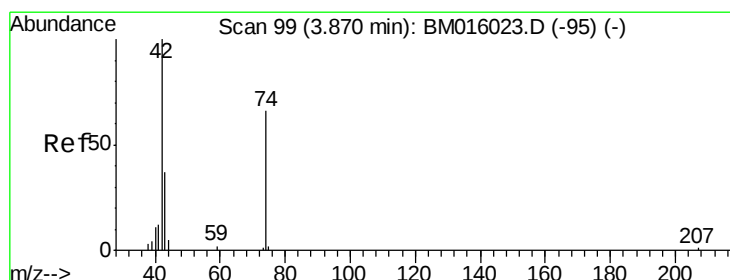
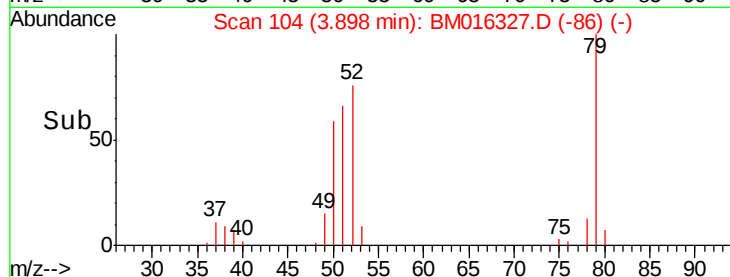
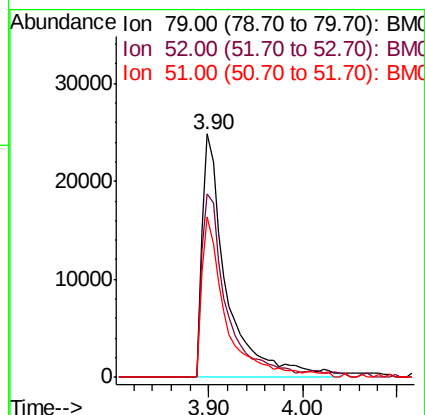
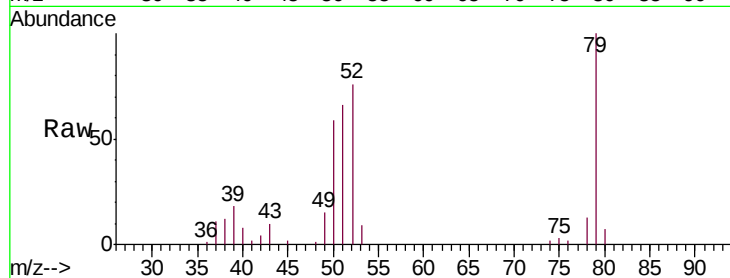
Tgt Ion: 79 Resp: 45361

Ion Ratio Lower Upper

79 100

52 75.6 51.1 76.7

51 65.7 26.1 39.1#



#4

n-Nitrosodimethylamine

Concen: 51.872 ng

RT: 3.80 min Scan# 88

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

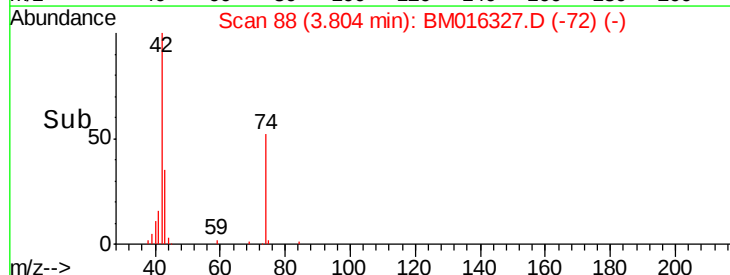
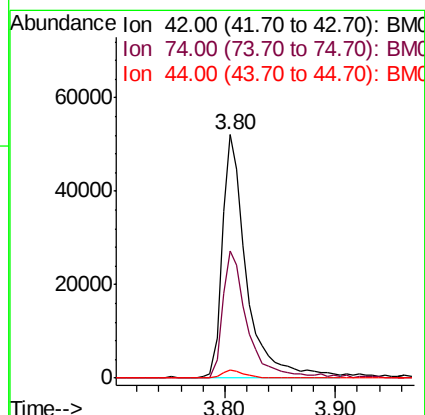
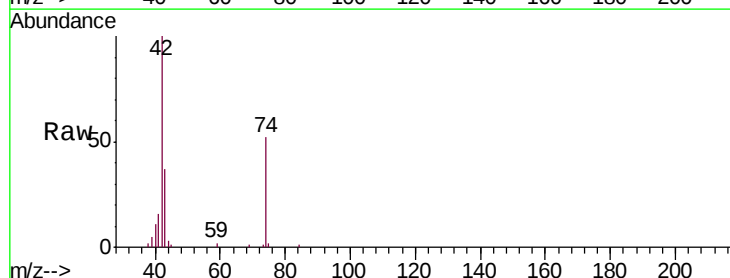
Tgt Ion: 42 Resp: 80136

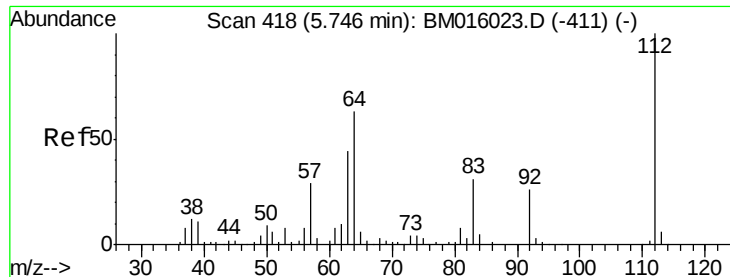
Ion Ratio Lower Upper

42 100

74 52.2 119.3 178.9#

44 3.3 5.4 8.2#





#5

2-Fluorophenol

Concen: 51.872 ng

RT: 5.66 min Scan# 403

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

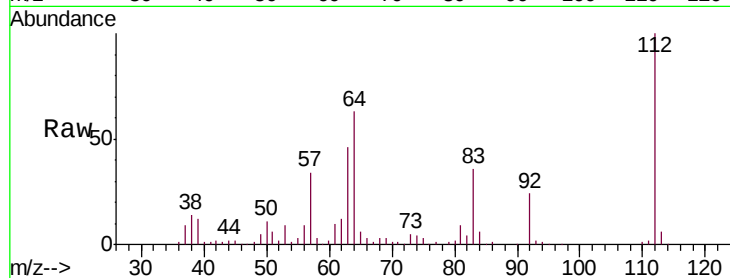
Tgt Ion: 112 Resp: 229900

Ion Ratio Lower Upper

112 100

64 62.8 38.6 57.8#

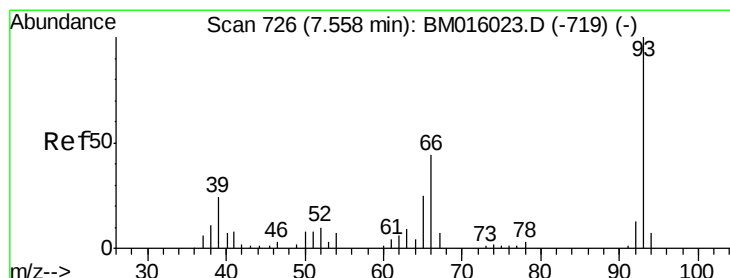
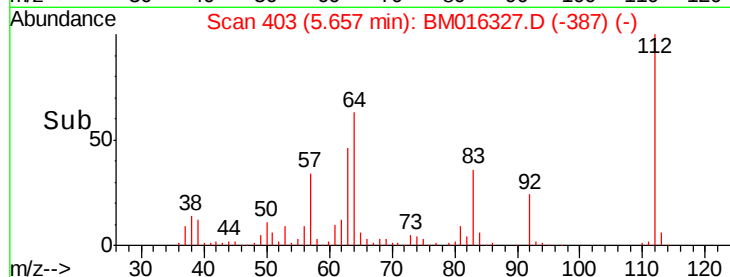
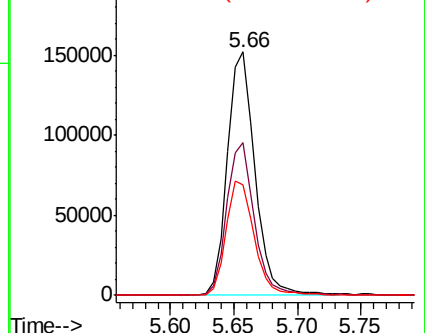
63 45.6 19.3 28.9#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM

Ion 63.00 (62.70 to 63.70): BM



#6

Aniline

Concen: 13.498 ng

RT: 7.46 min Scan# 709

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

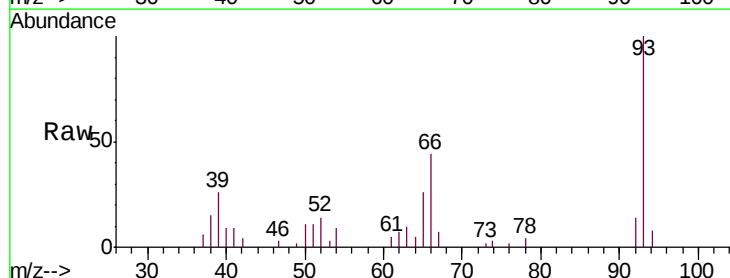
Tgt Ion: 93 Resp: 35618

Ion Ratio Lower Upper

93 100

66 44.4 30.8 46.2

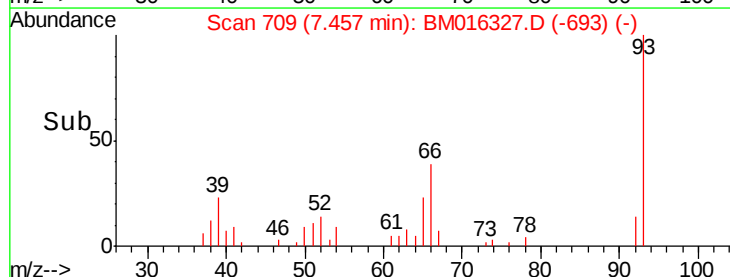
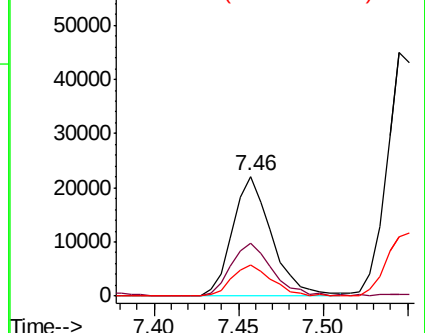
65 26.1 16.0 24.0#

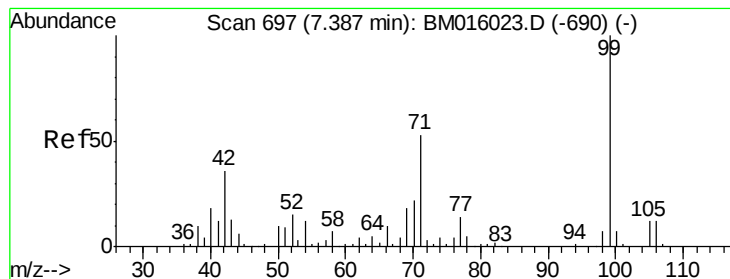


Abundance Ion 93.00 (92.70 to 93.70): BM

Ion 66.00 (65.70 to 66.70): BM

Ion 65.00 (64.70 to 65.70): BM





#7

Phenol-d6

Concen: 13.498 ng

RT: 7.30 min Scan# 682

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

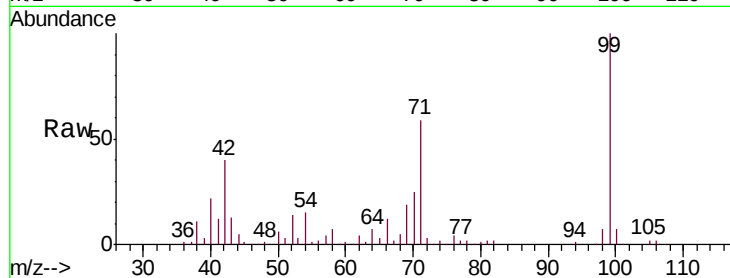
Tgt Ion: 99 Resp: 241311

Ion Ratio Lower Upper

99 100

42 39.9 11.0 16.4#

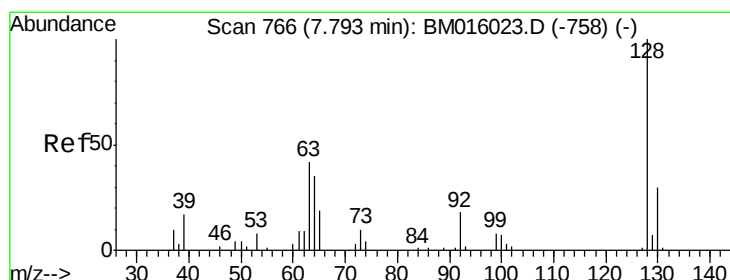
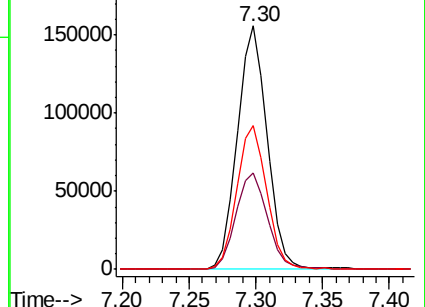
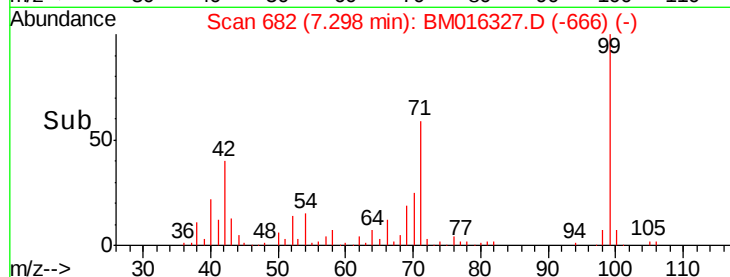
71 59.1 23.4 35.2#



Abundance Ion 99.00 (98.70 to 99.70): BM016327.D (-666) (-)

Ion 42.00 (41.70 to 42.70): BM016327.D (-666) (-)

Ion 71.00 (70.70 to 71.70): BM016327.D (-666) (-)



#8

2-Chlorophenol

Concen: 39.516 ng

RT: 7.69 min Scan# 748

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

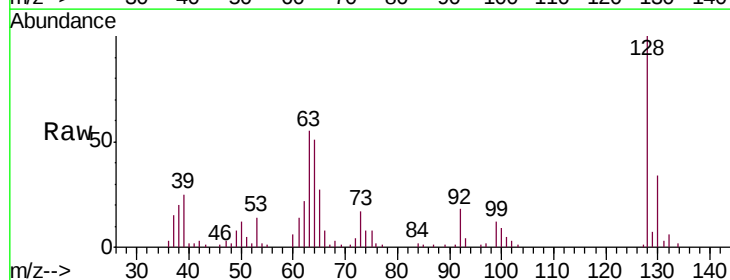
Tgt Ion: 128 Resp: 82415

Ion Ratio Lower Upper

128 100

130 34.0 12.0 52.0

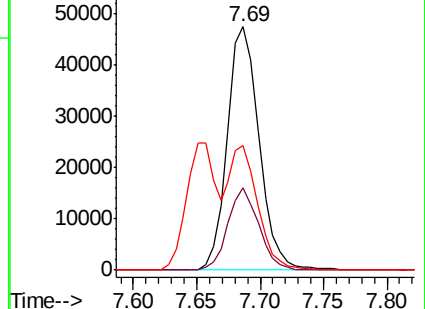
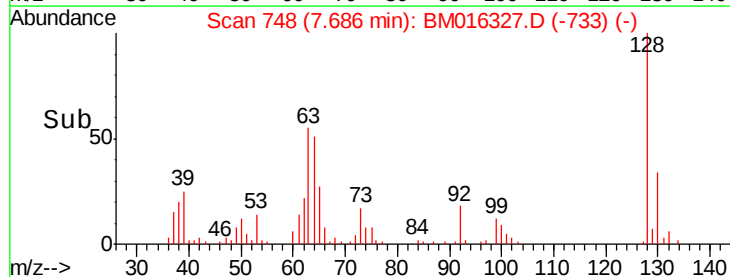
64 51.3 24.9 64.9

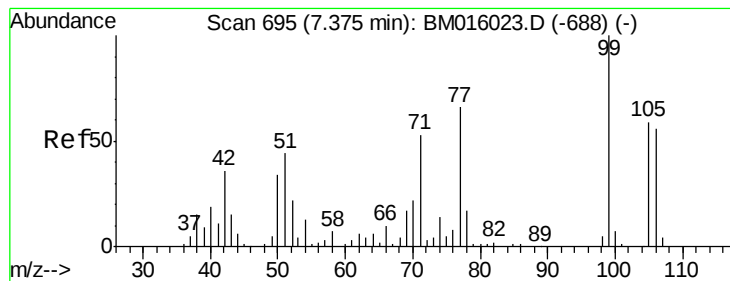


Abundance Ion 128.00 (127.70 to 128.70): BM016327.D (-733) (-)

Ion 130.00 (129.70 to 130.70): BM016327.D (-733) (-)

Ion 64.00 (63.70 to 64.70): BM016327.D (-733) (-)





#9

Benzaldehyde

Concen: 18.339 ng

RT: 7.27 min Scan# 678

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

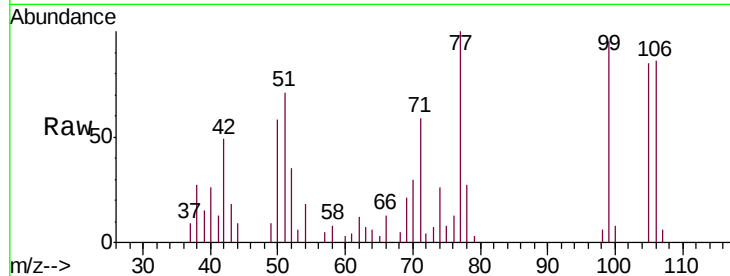
Tgt Ion: 77 Resp: 29529

Ion Ratio Lower Upper

77 100

105 84.6 78.8 118.8

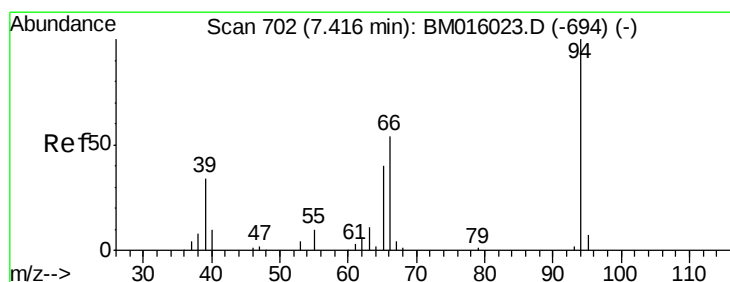
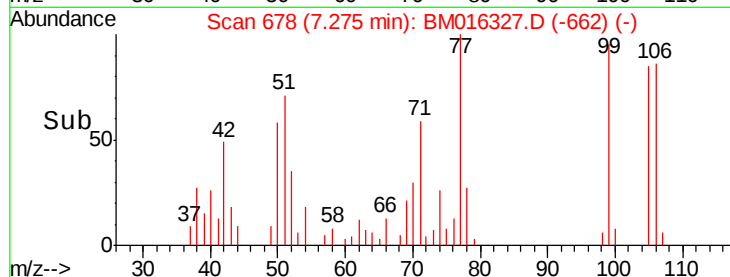
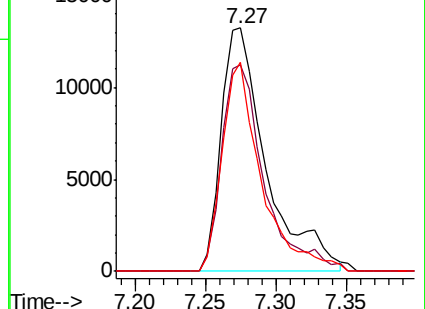
106 86.0 73.7 113.7



Abundance Ion 77.00 (76.70 to 77.70): BM016327.D (-678) (-)

Ion 105.00 (104.70 to 105.70): BM016327.D (-678) (-)

Ion 106.00 (105.70 to 106.70): BM016327.D (-678) (-)



#10

Phenol

Concen: 32.120 ng

RT: 7.32 min Scan# 686

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

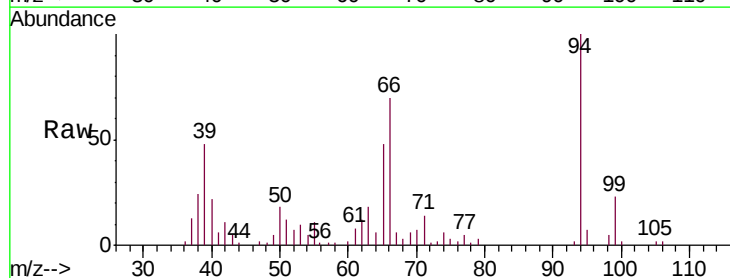
Tgt Ion: 94 Resp: 73605

Ion Ratio Lower Upper

94 100

65 47.8 18.8 58.8

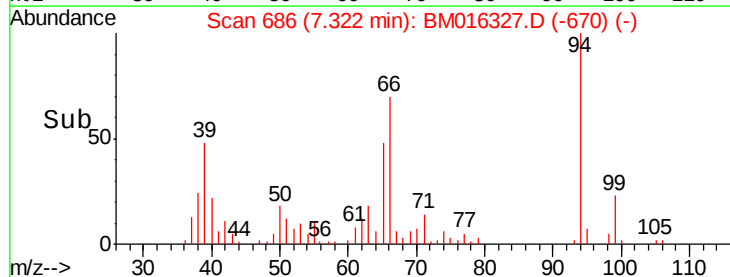
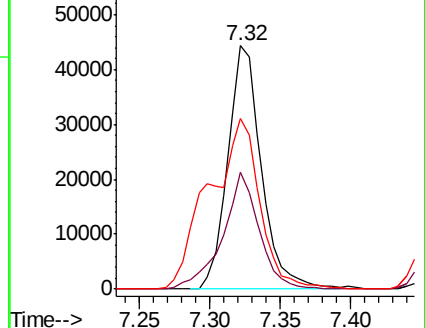
66 70.1 39.9 79.9

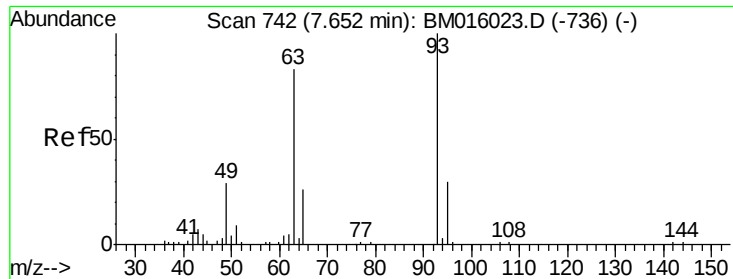


Abundance Ion 94.00 (93.70 to 94.70): BM016327.D (-670) (-)

Ion 65.00 (64.70 to 65.70): BM016327.D (-670) (-)

Ion 66.00 (65.70 to 66.70): BM016327.D (-670) (-)

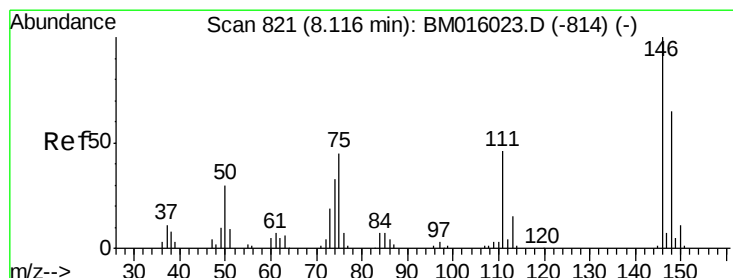
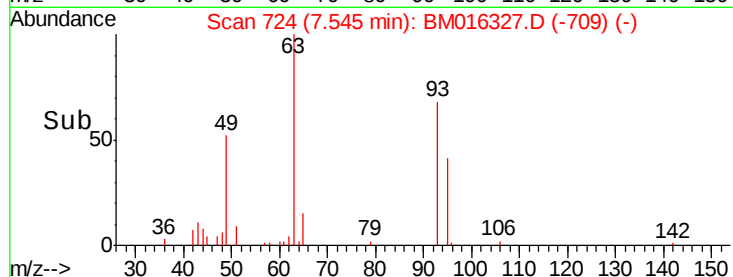
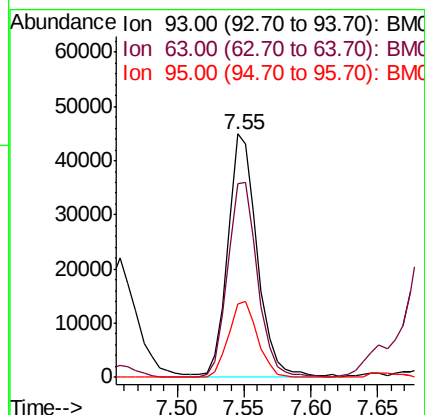
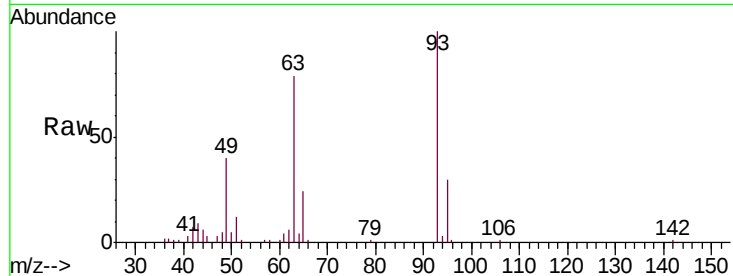




#11  
bis(2-Chloroethyl)ether  
Concen: 38.652 ng  
RT: 7.55 min Scan# 724  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

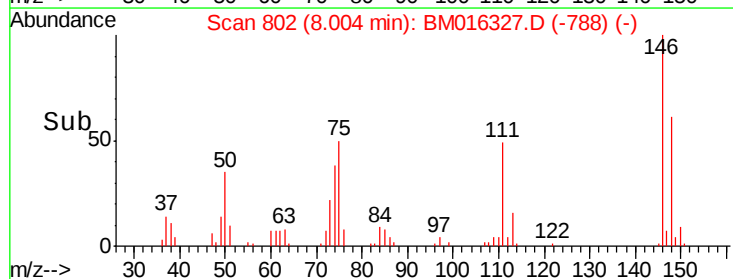
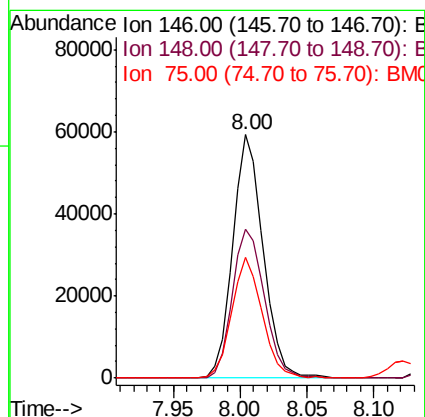
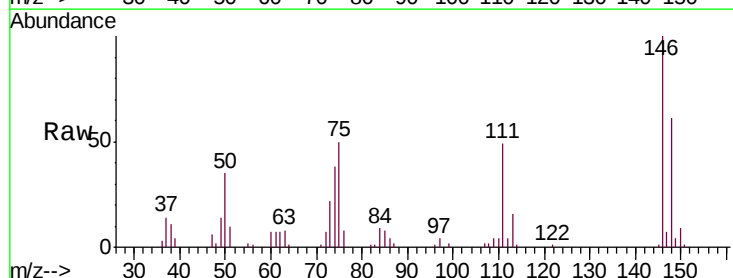
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

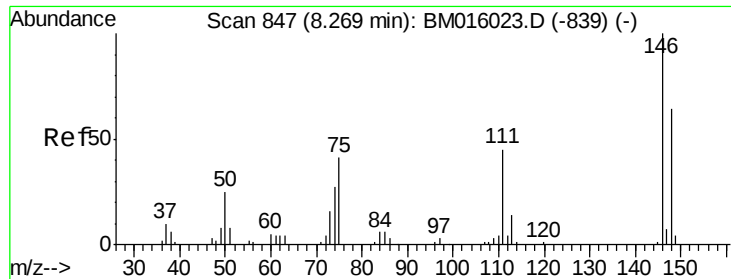
Tgt Ion: 93 Resp: 69972  
Ion Ratio Lower Upper  
93 100  
63 79.4 49.5 89.5  
95 30.1 13.5 53.5



#12  
1,3-Dichlorobenzene  
Concen: 38.470 ng  
RT: 8.00 min Scan# 802  
Delta R.T. -0.02 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion: 146 Resp: 93915  
Ion Ratio Lower Upper  
146 100  
148 61.4 50.9 76.3  
75 49.6 21.4 32.2#

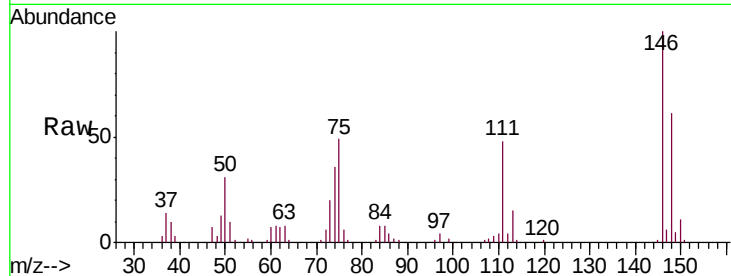




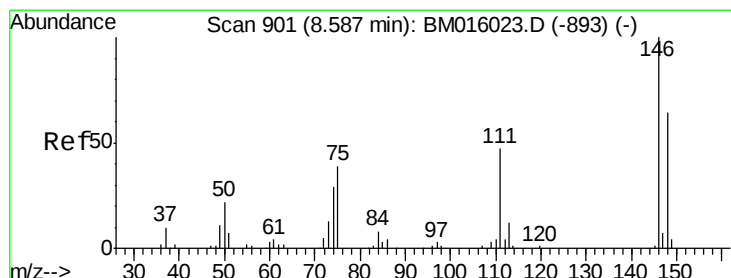
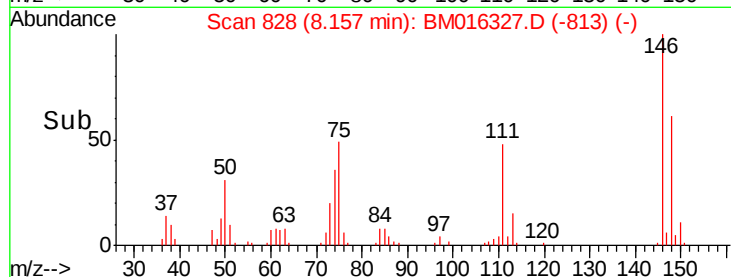
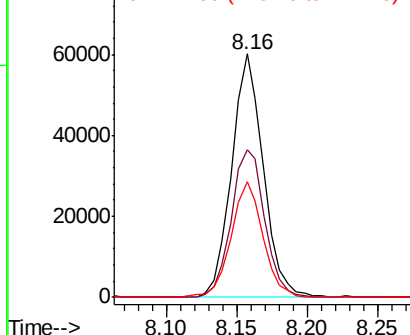
#13  
 1,4-Dichlorobenzene  
 Concen: 37.916 ng  
 RT: 8.16 min Scan# 828  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

Tgt Ion:146 Resp: 93876  
 Ion Ratio Lower Upper  
 146 100  
 148 60.9 51.9 77.9  
 111 47.7 29.2 43.8#

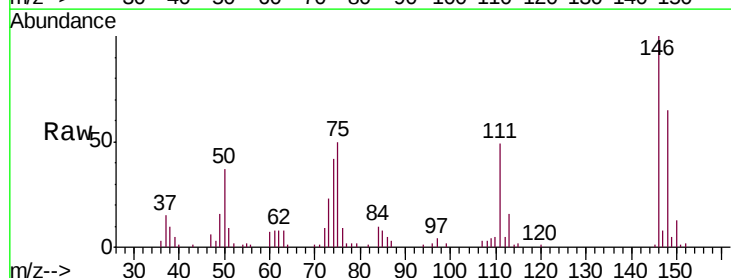


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

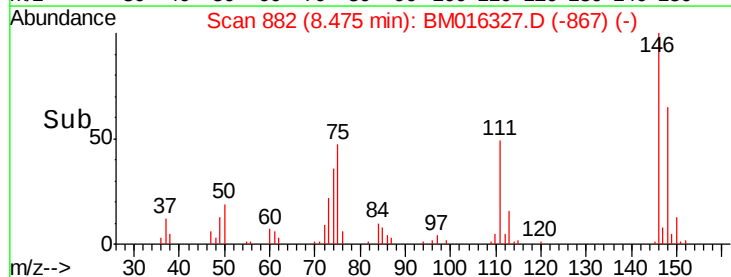
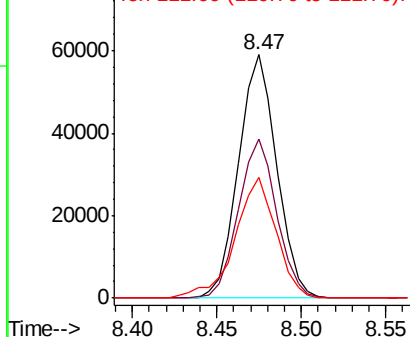


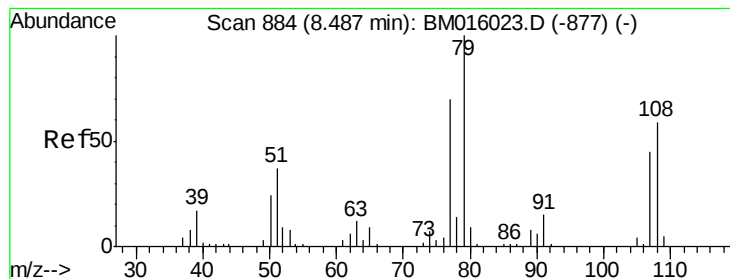
#14  
 1,2-Dichlorobenzene  
 Concen: 38.422 ng  
 RT: 8.47 min Scan# 882  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:146 Resp: 93083  
 Ion Ratio Lower Upper  
 146 100  
 148 65.5 52.3 78.5  
 111 49.4 30.6 45.8#



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: 38.800 ng

RT: 8.38 min Scan# 866

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

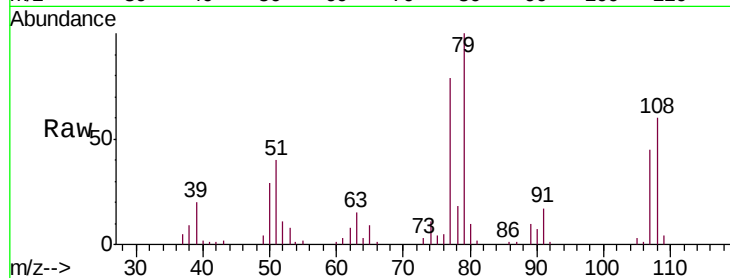
Tgt Ion: 79 Resp: 70801

Ion Ratio Lower Upper

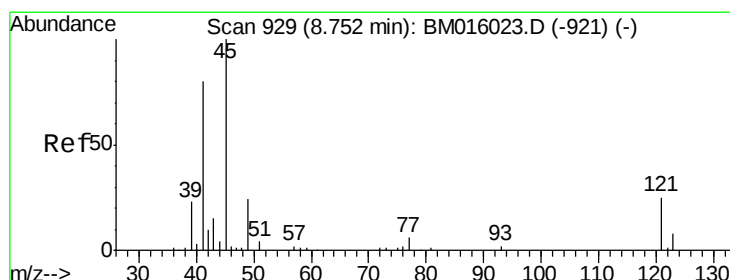
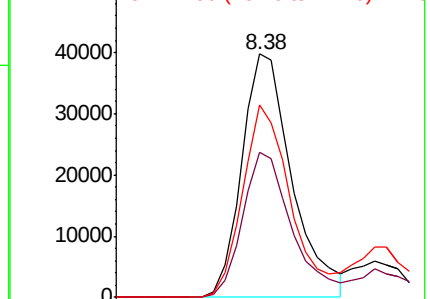
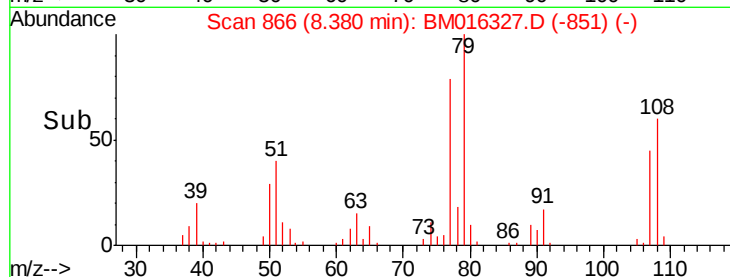
79 100

108 59.5 65.0 97.4#

77 78.9 53.0 79.6



Abundance Ion 79.00 (78.70 to 79.70): BM016327.D (-851) (-)



#16

2,2'-oxybis(1-Chloropropane)

Concen: 33.619 ng

RT: 8.65 min Scan# 912

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

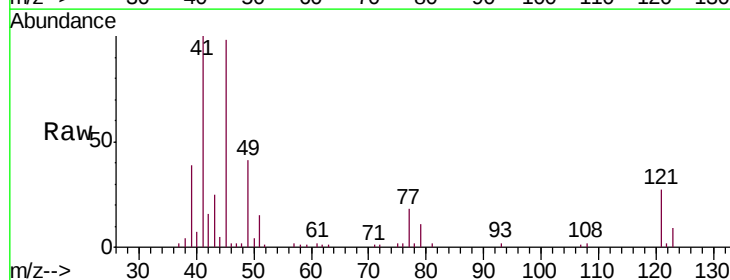
Tgt Ion: 45 Resp: 93147

Ion Ratio Lower Upper

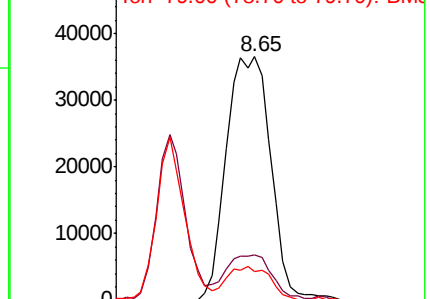
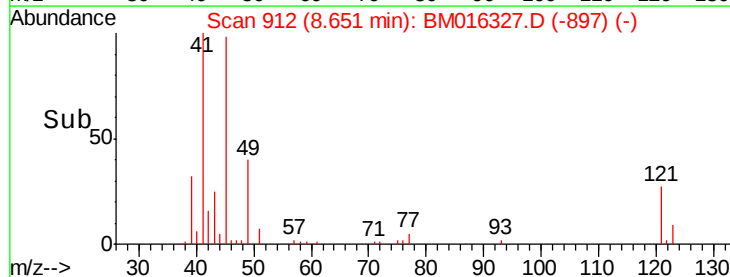
45 100

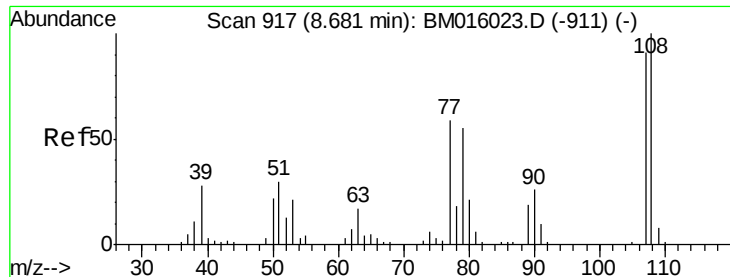
77 18.6 0.0 35.2

79 11.6 0.0 32.0



Abundance Ion 45.00 (44.70 to 45.70): BM016327.D (-897) (-)

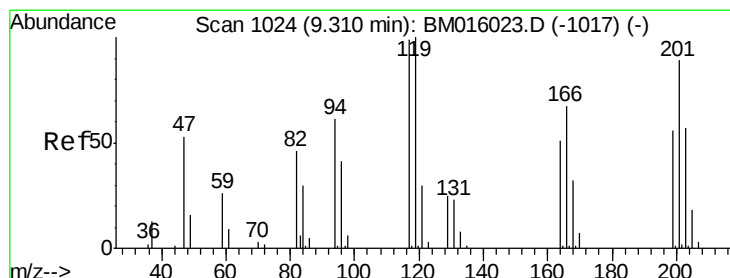
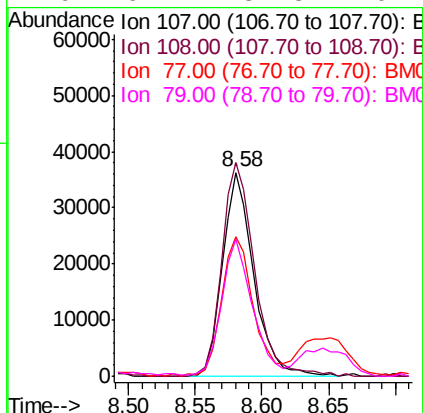
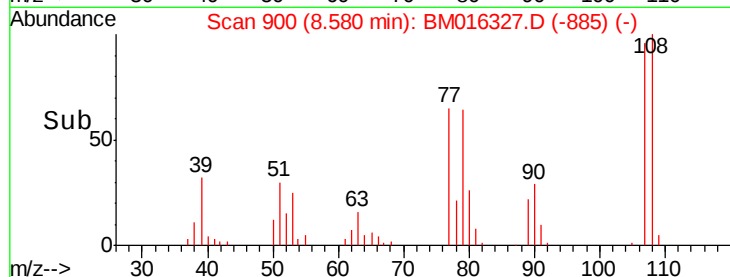
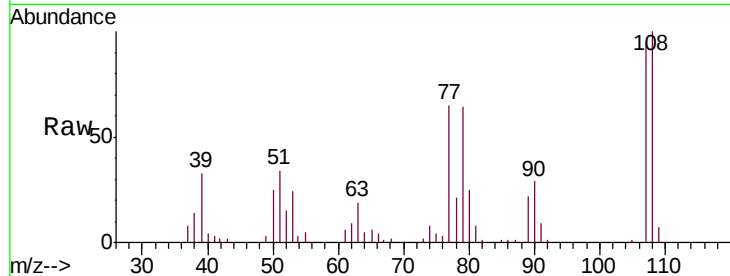




#17  
2-Methylphenol  
Concen: 38.068 ng  
RT: 8.58 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

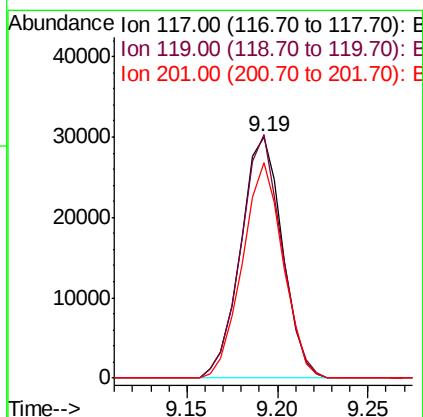
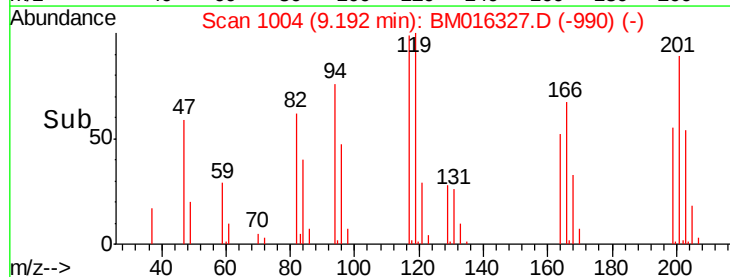
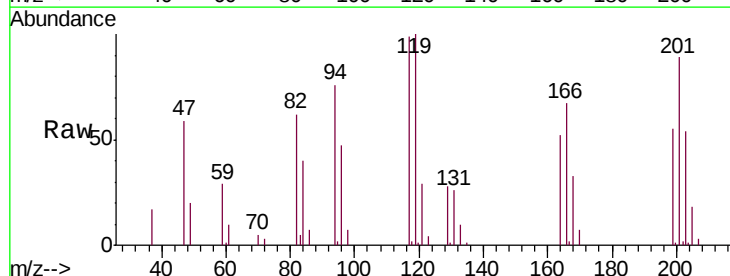
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

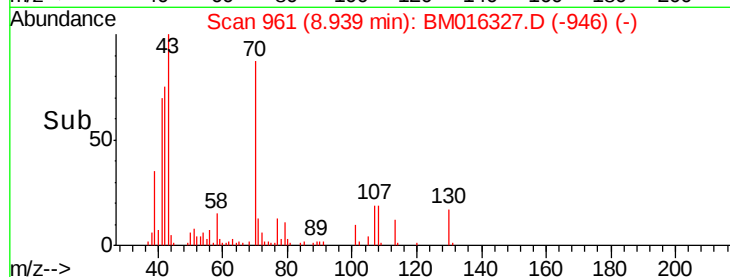
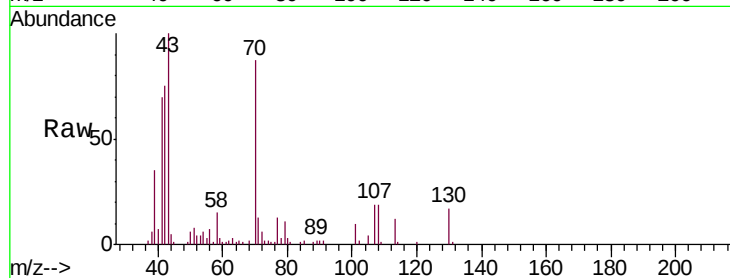
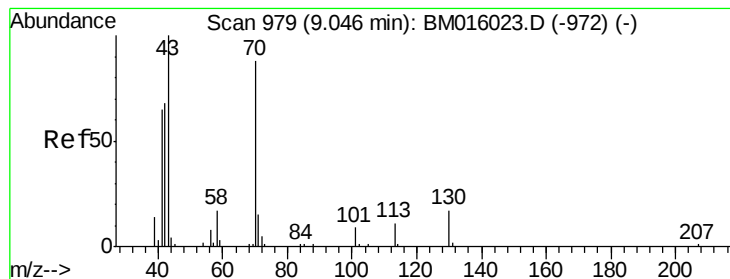
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 104.8 | 89.8  | 134.8 |
| 77      | 68.6  | 32.6  | 48.8  |
| 79      | 67.4  | 32.8  | 49.2  |



#18  
Hexachloroethane  
Concen: 44.974 ng  
RT: 9.19 min Scan# 1004  
Delta R.T. -0.02 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 101.0 | 79.2  | 118.8 |
| 201     | 89.5  | 69.8  | 104.6 |





#19

n-Nitroso-di-n-propylamine

Concen: 38.172 ng

RT: 8.94 min Scan# 961

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

Tgt Ion: 70 Resp: 63939

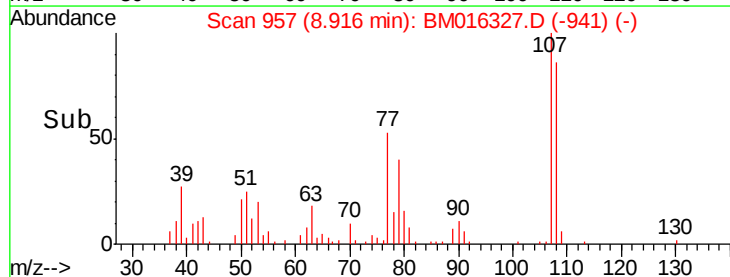
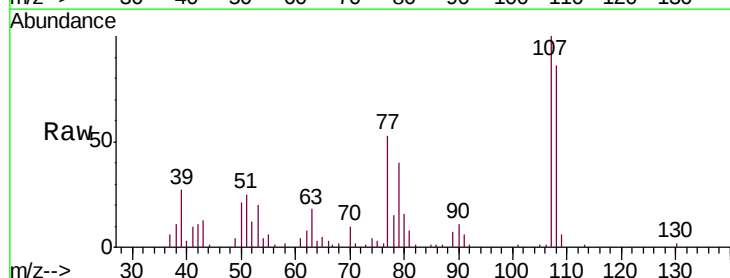
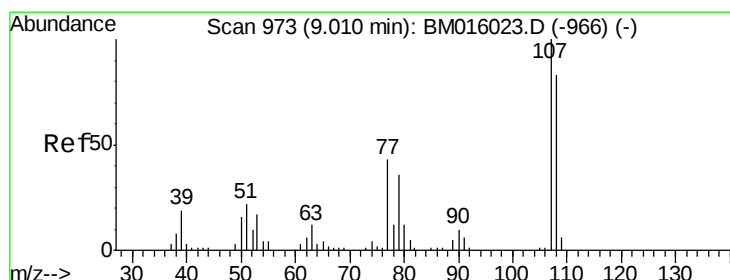
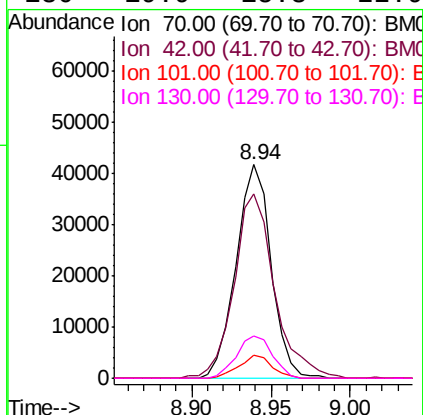
Ion Ratio Lower Upper

70 100

42 86.2 44.5 66.7#

101 11.0 7.4 11.2

130 19.9 15.3 22.9



#20

3+4-Methylphenols

Concen: 33.919 ng

RT: 8.92 min Scan# 957

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Tgt Ion: 107 Resp: 76436

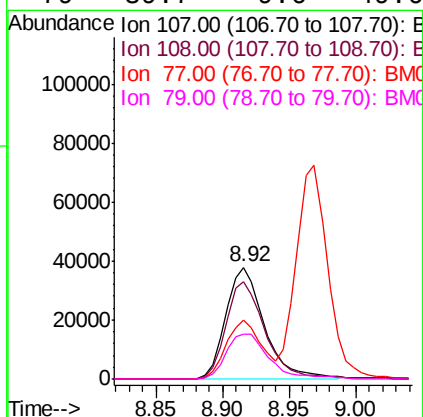
Ion Ratio Lower Upper

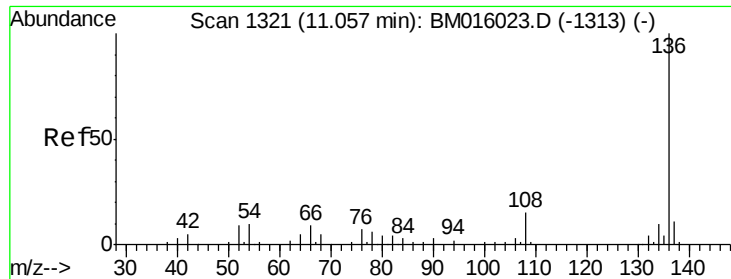
107 100

108 86.5 73.2 113.2

77 52.9 10.7 50.7#

79 39.7 9.6 49.6

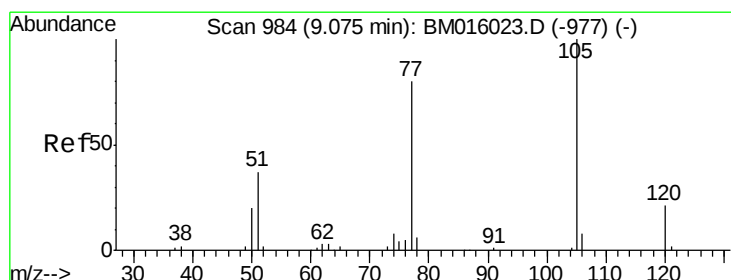
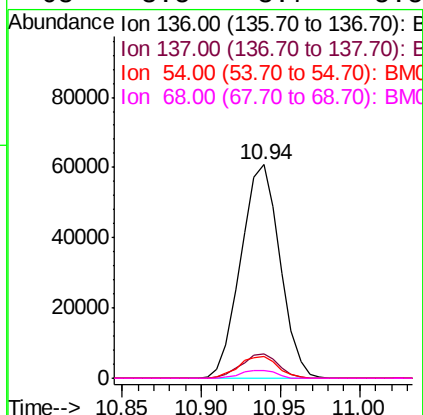
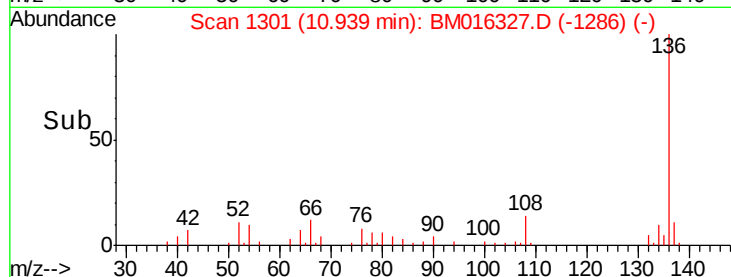
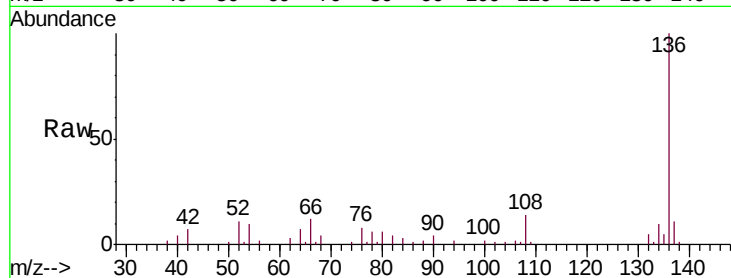




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.94 min Scan# 1301  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

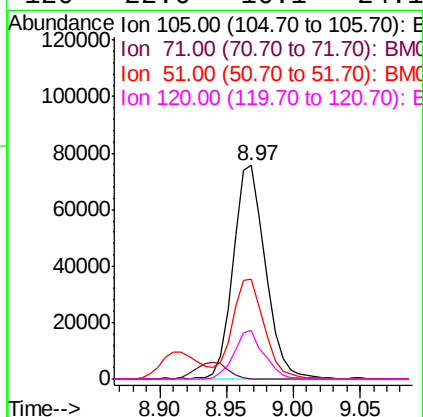
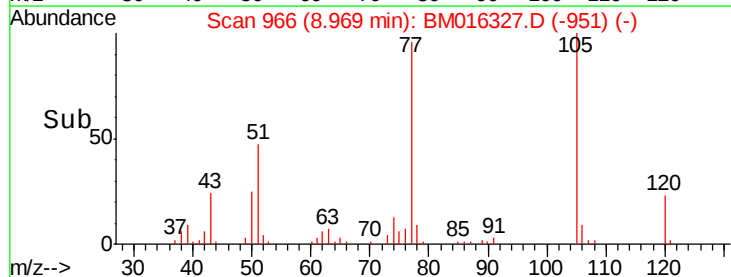
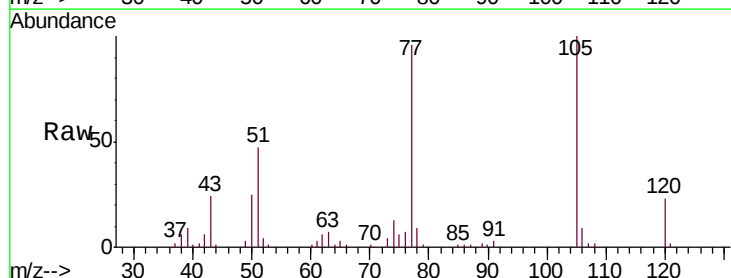
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

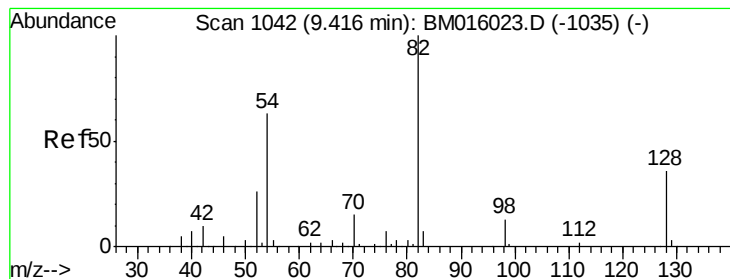
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 104410 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.7   | 13.1   |
| 54       | 10.1  | 4.6   | 6.8#   |
| 68       | 3.5   | 3.7   | 5.5#   |



#22  
Acetophenone  
Concen: 48.100 ng  
RT: 8.97 min Scan# 966  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 126456 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 71       | 0.0   | 0.6   | 1.0#   |
| 51       | 46.5  | 21.6  | 32.4#  |
| 120      | 22.6  | 16.1  | 24.1   |





#23

Nitrobenzene-d5

Concen: 48.100 ng

RT: 9.31 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

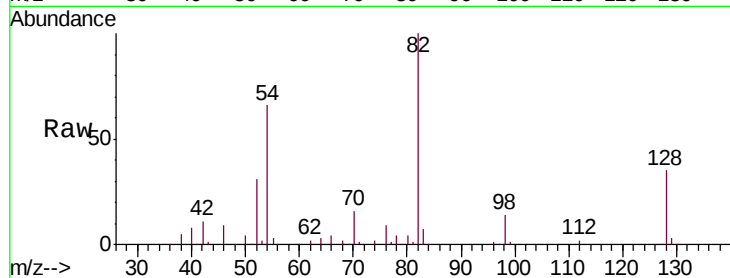
Tgt Ion: 82 Resp: 237666

Ion Ratio Lower Upper

82 100

128 34.7 32.8 49.2

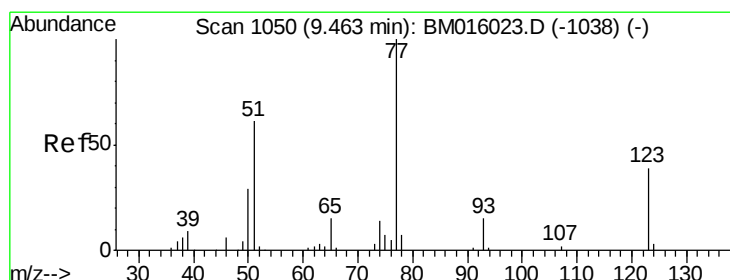
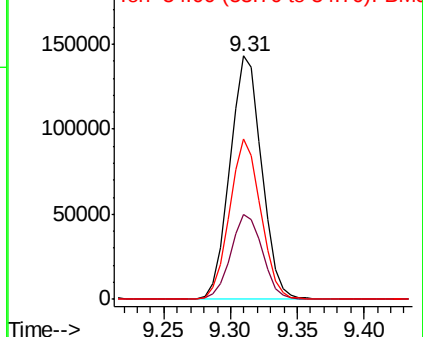
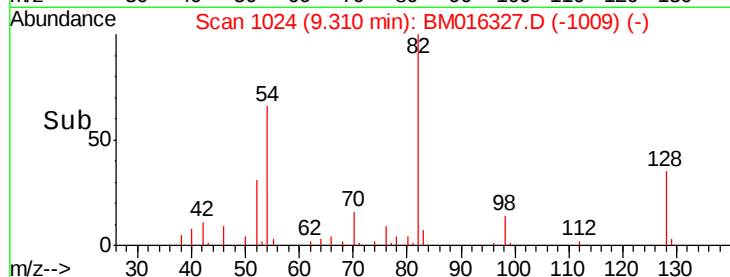
54 65.8 40.6 60.8#



Abundance Ion 82.00 (81.70 to 82.70): BM016327.D (-1009) (-)

Ion 128.00 (127.70 to 128.70): BM016327.D (-1009) (-)

Ion 54.00 (53.70 to 54.70): BM016327.D (-1009) (-)



#24

Nitrobenzene

Concen: 47.764 ng

RT: 9.35 min Scan# 1031

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

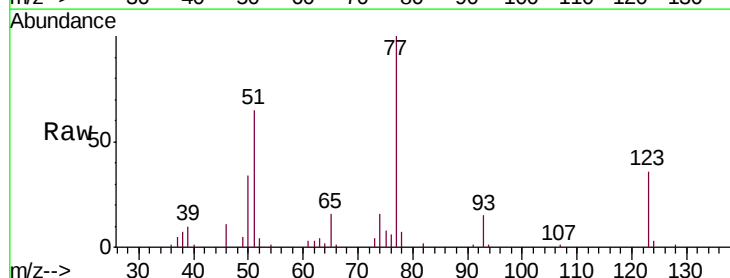
Tgt Ion: 77 Resp: 107927

Ion Ratio Lower Upper

77 100

123 35.7 32.6 49.0

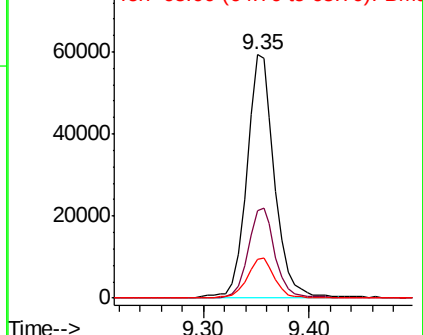
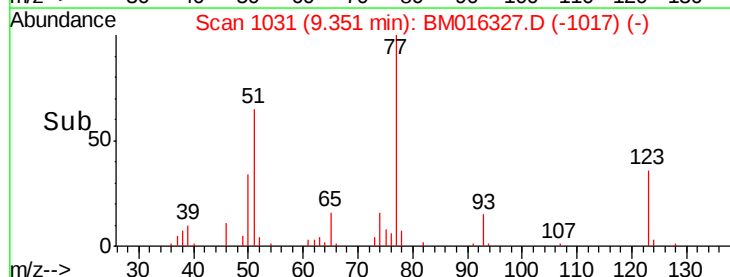
65 16.1 10.9 16.3

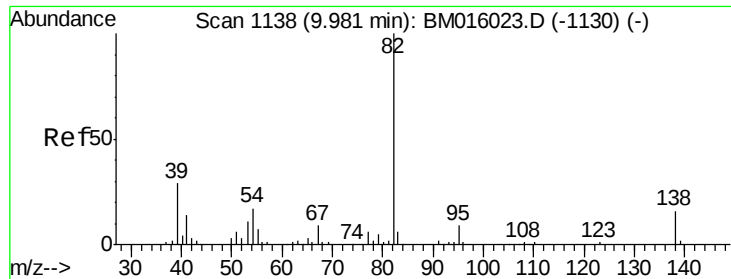


Abundance Ion 77.00 (76.70 to 77.70): BM016327.D (-1017) (-)

Ion 123.00 (122.70 to 123.70): BM016327.D (-1017) (-)

Ion 65.00 (64.70 to 65.70): BM016327.D (-1017) (-)

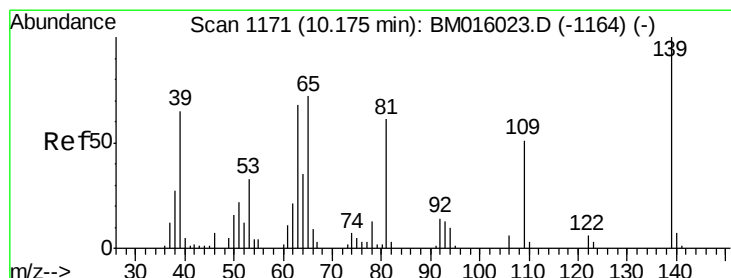
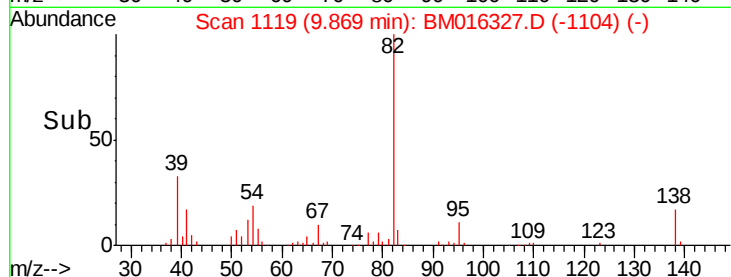
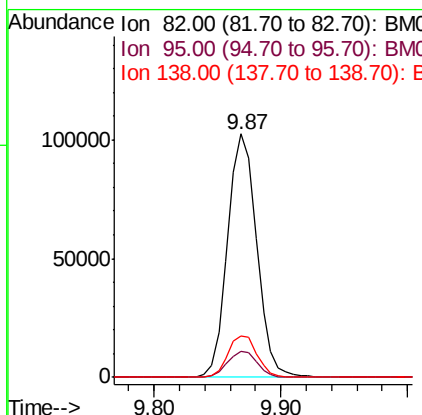
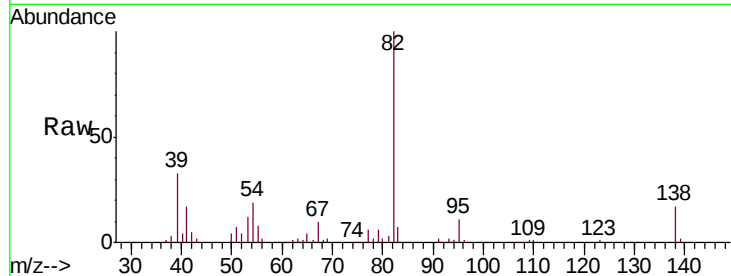




#25  
Isophorone  
Concen: 52.969 ng  
RT: 9.87 min Scan# 1119  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

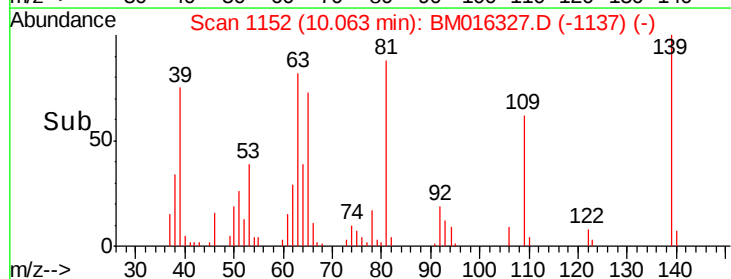
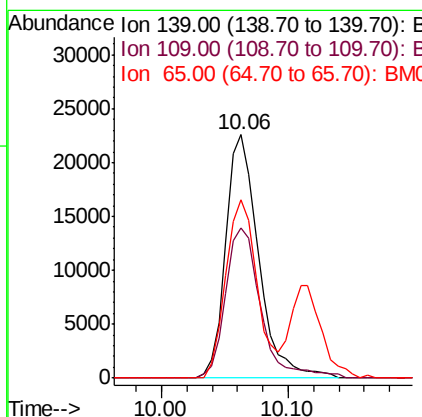
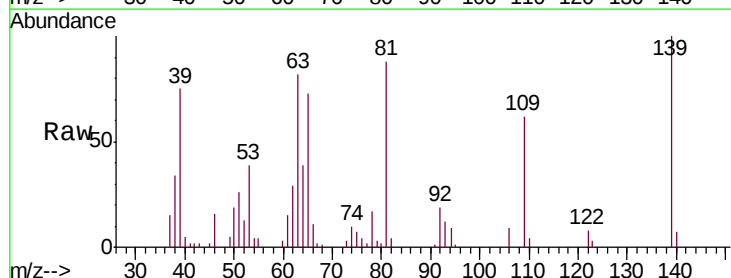
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

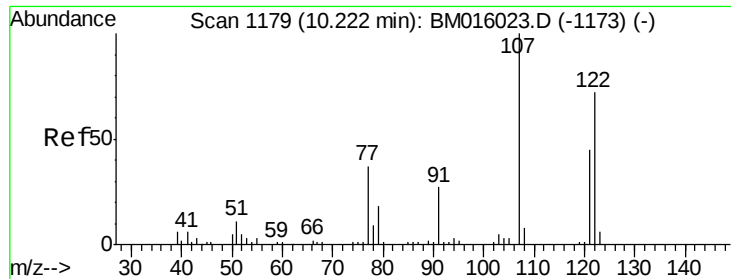
Tgt Ion: 82 Resp: 162647  
Ion Ratio Lower Upper  
82 100  
95 10.8 5.8 8.6#  
138 17.0 16.3 24.5



#26  
2-Nitrophenol  
Concen: 42.977 ng  
RT: 10.06 min Scan# 1152  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion: 139 Resp: 40538  
Ion Ratio Lower Upper  
139 100  
109 61.6 20.1 30.1#  
65 73.3 31.5 47.3#

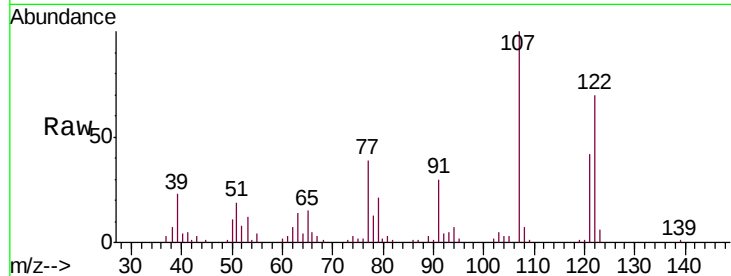




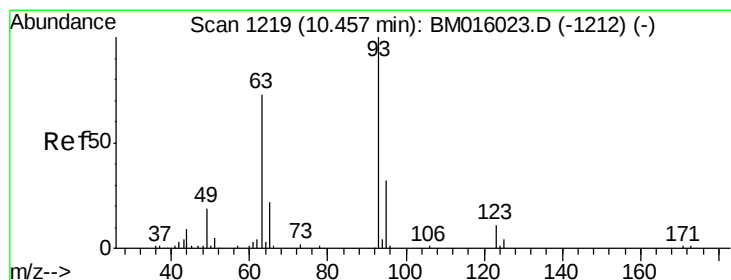
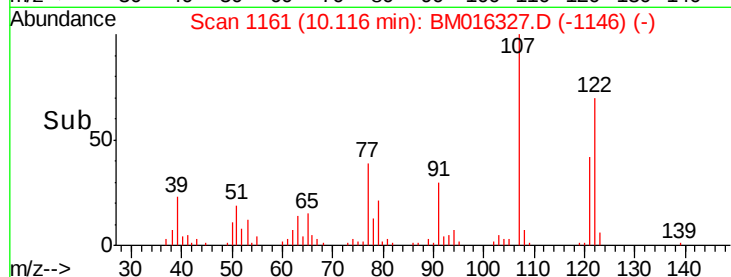
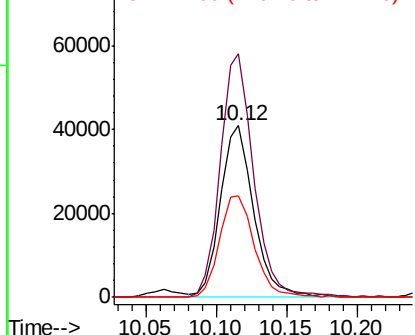
#27  
2,4-Dimethylphenol  
Concen: 51.225 ng  
RT: 10.12 min Scan# 1161  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

Tgt Ion:122 Resp: 67317  
Ion Ratio Lower Upper  
122 100  
107 142.0 84.7 127.1#  
121 59.5 46.6 69.8

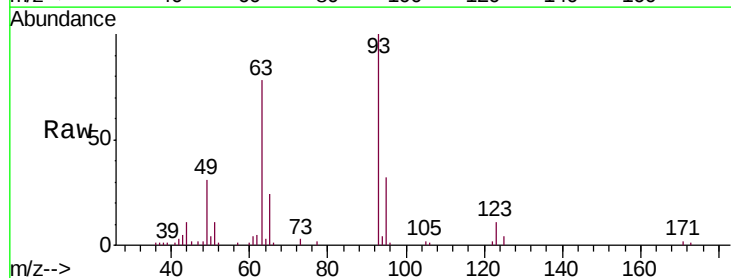


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 107.00 (106.70 to 107.70): E  
Ion 121.00 (120.70 to 121.70): E

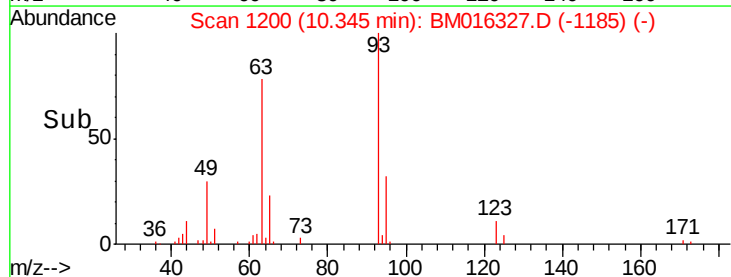
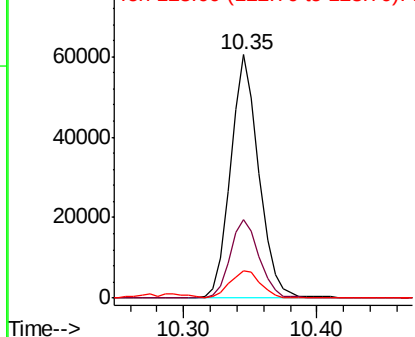


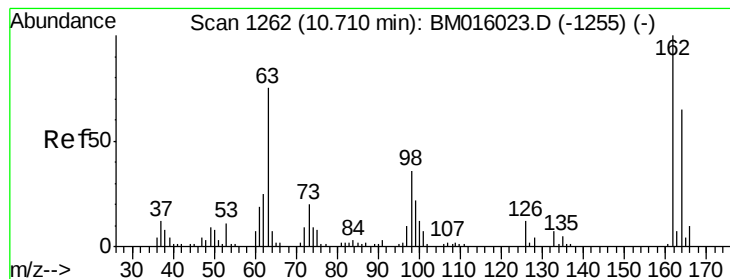
#28  
bis(2-Chloroethoxy)methane  
Concen: 44.811 ng  
RT: 10.35 min Scan# 1200  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion: 93 Resp: 89431  
Ion Ratio Lower Upper  
93 100  
95 32.2 25.5 38.3  
123 11.3 8.6 13.0



Abundance Ion 93.00 (92.70 to 93.70): BM0  
Ion 95.00 (94.70 to 95.70): BM0  
Ion 123.00 (122.70 to 123.70): E





#29

2,4-Dichlorophenol

Concen: 44.864 ng

RT: 10.60 min Scan# 1243

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

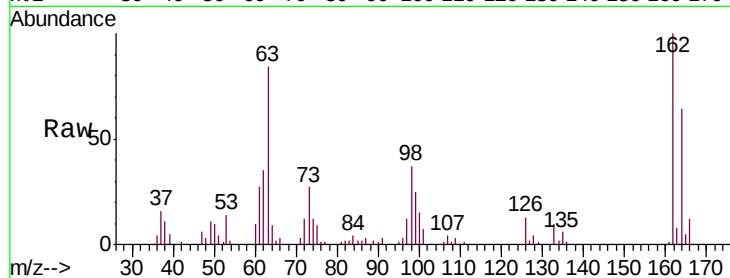
Tgt Ion:162 Resp: 70058

Ion Ratio Lower Upper

162 100

164 64.0 42.8 82.8

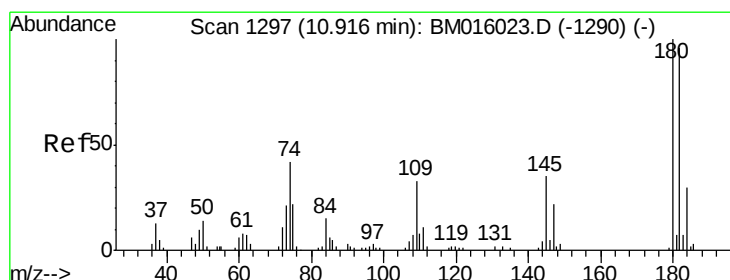
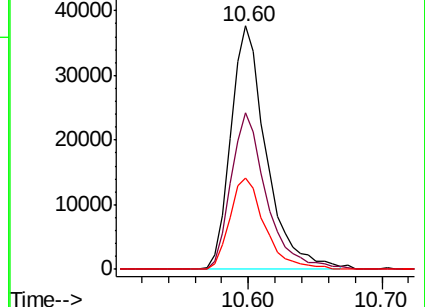
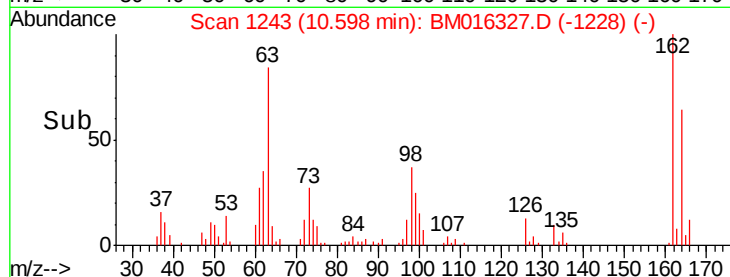
98 37.2 14.5 54.5



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BM



#30

1,2,4-Trichlorobenzene

Concen: 44.646 ng

RT: 10.80 min Scan# 1277

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

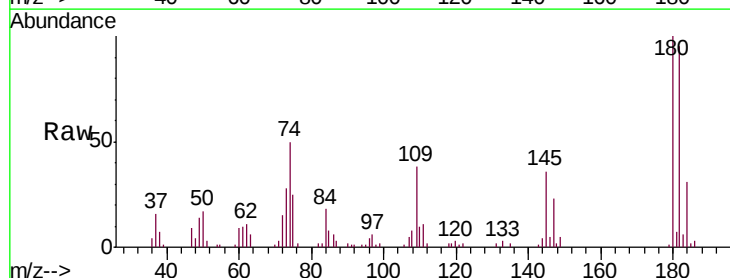
Tgt Ion:180 Resp: 84709

Ion Ratio Lower Upper

180 100

182 95.5 77.6 116.4

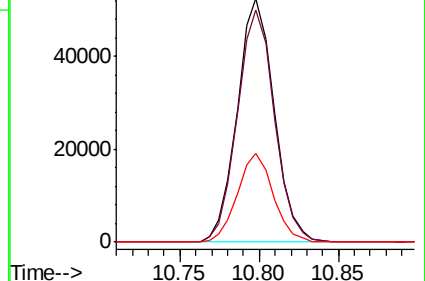
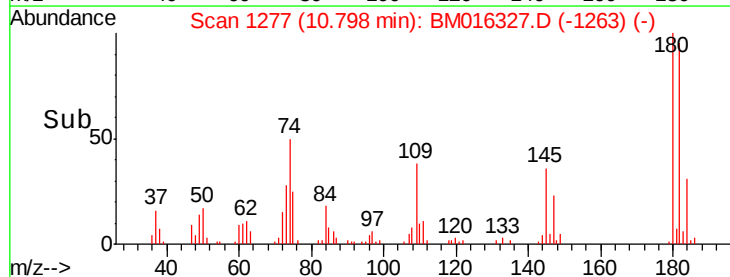
145 36.4 23.4 35.2#

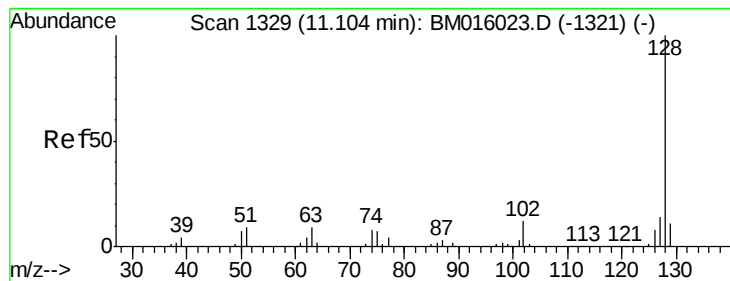


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 47.487 ng

RT: 10.99 min Scan# 1309

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

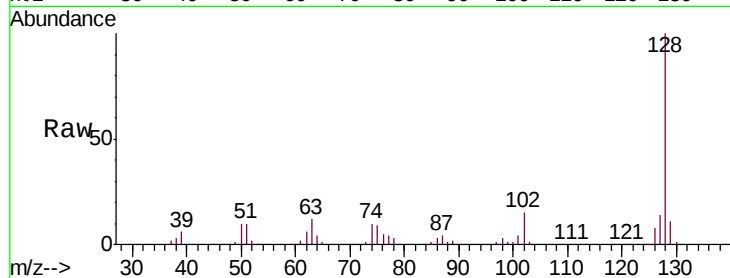
Tgt Ion:128 Resp: 250934

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

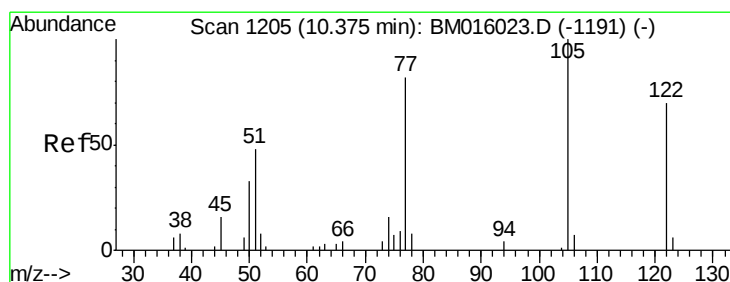
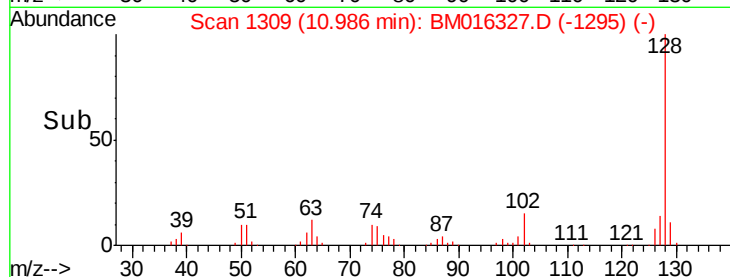
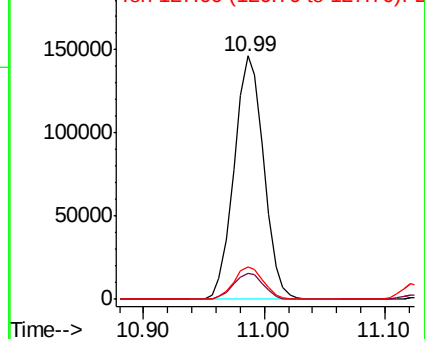
127 13.5 10.4 15.6



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: 33.929 ng

RT: 10.30 min Scan# 1192

Delta R.T. 0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

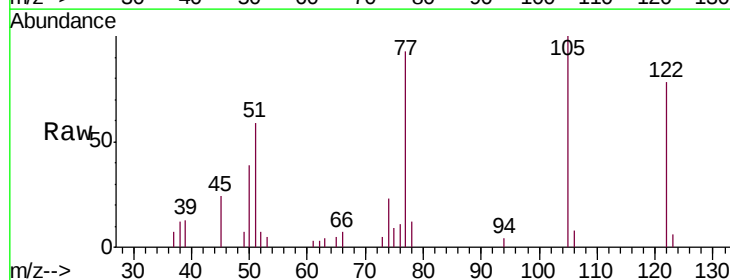
Tgt Ion:122 Resp: 33989

Ion Ratio Lower Upper

122 100

105 128.9 99.9 139.9

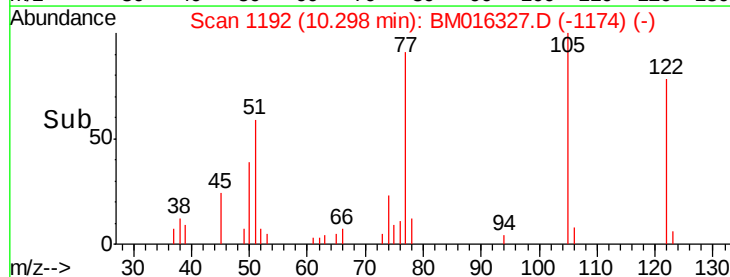
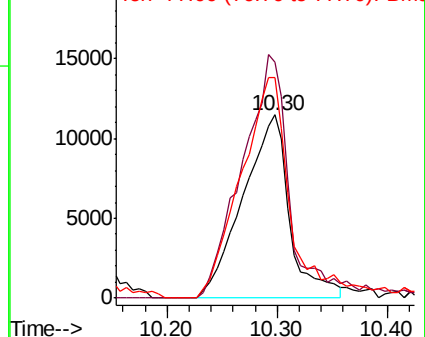
77 120.3 73.7 113.7#

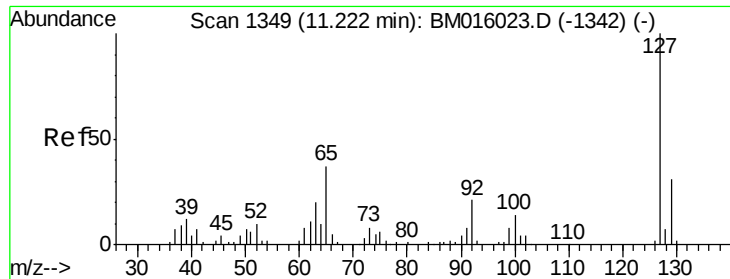


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM

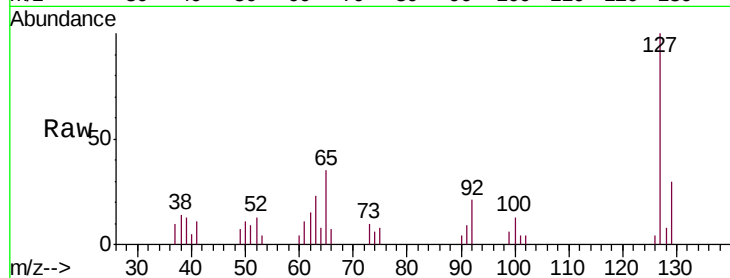




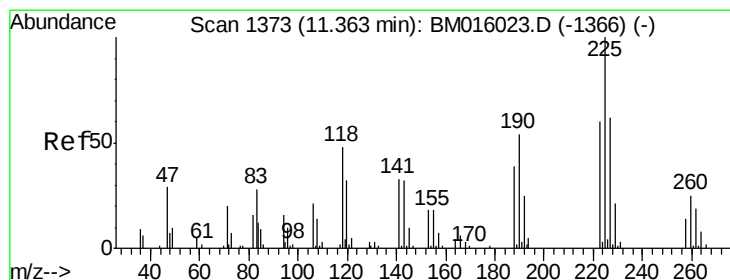
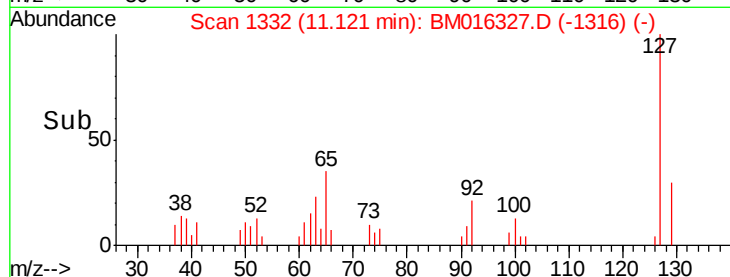
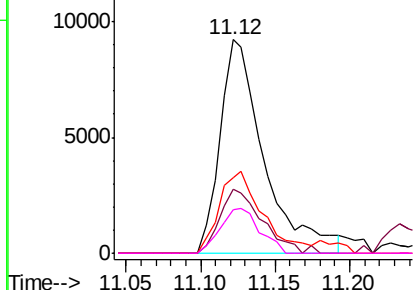
#33  
4-Chloroaniline  
Concen: 8.810 ng  
RT: 11.12 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 18998 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 30.0  | 25.3  | 37.9  |
| 65       | 35.4  | 17.6  | 26.4# |
| 92       | 20.6  | 13.1  | 19.7# |

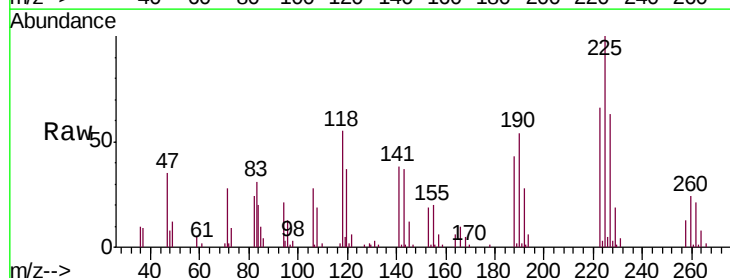


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BM0  
Ion 92.00 (91.70 to 92.70): BM0

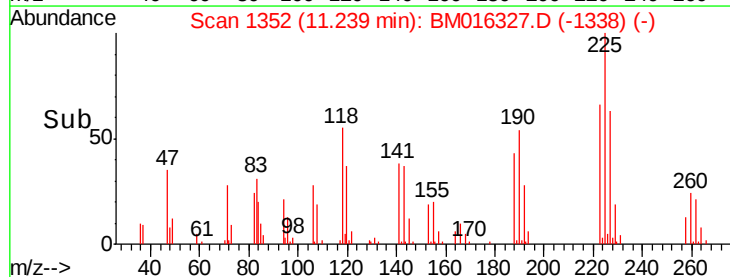
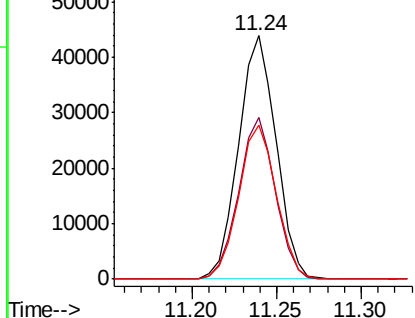


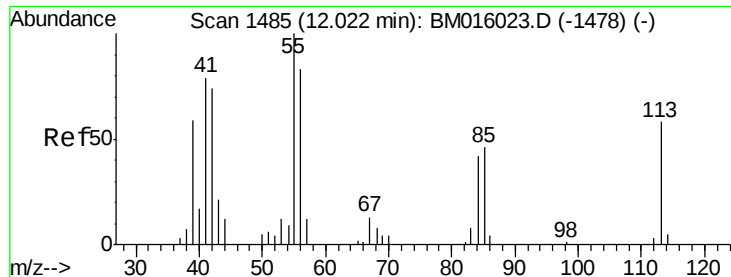
#34  
Hexachlorobutadiene  
Concen: 51.527 ng  
RT: 11.24 min Scan# 1352  
Delta R.T. -0.02 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 67814 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 66.2  | 47.9  | 71.9  |
| 227      | 63.4  | 50.1  | 75.1  |



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

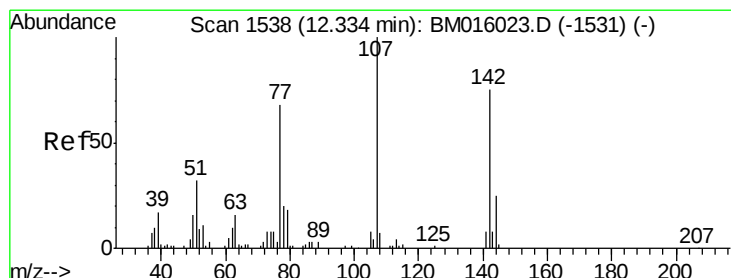
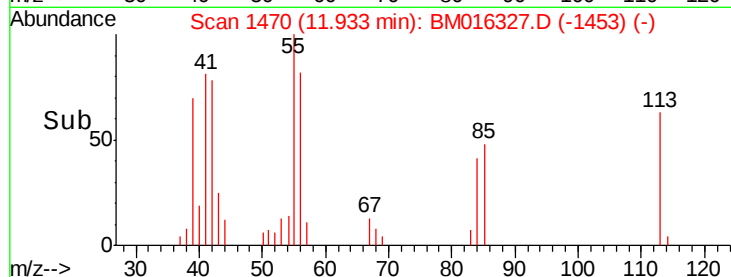
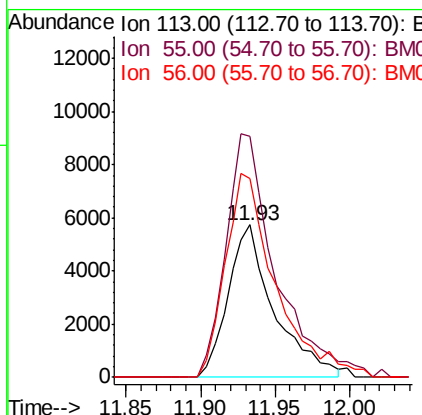
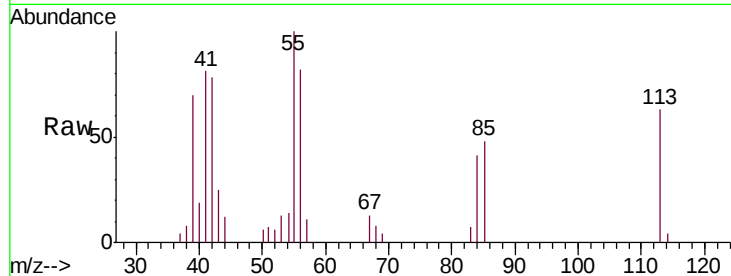




#35  
 Caprolactam  
 Concen: 28.483 ng  
 RT: 11.93 min Scan# 1470  
 Delta R.T. -0.00 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

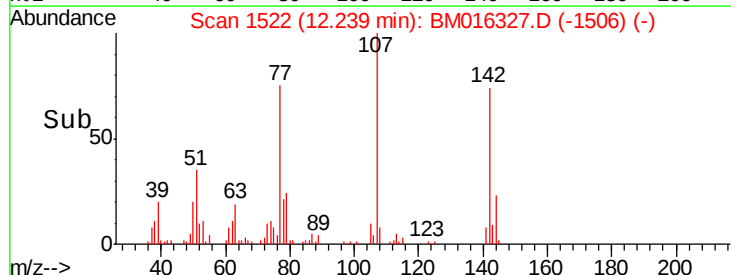
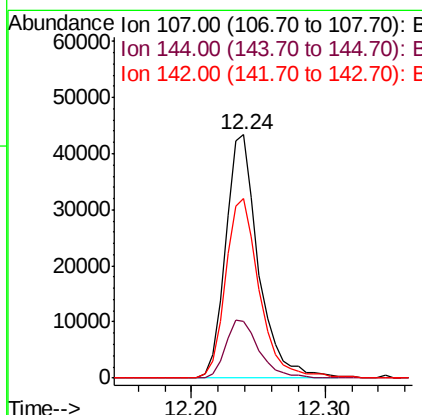
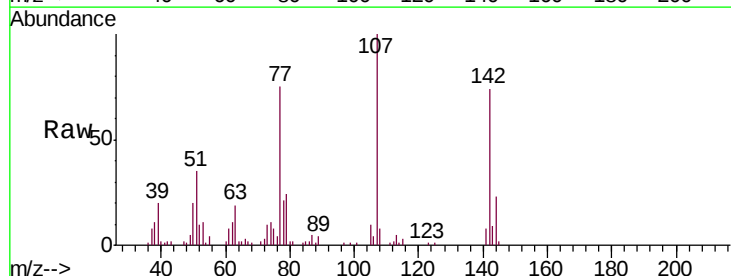
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

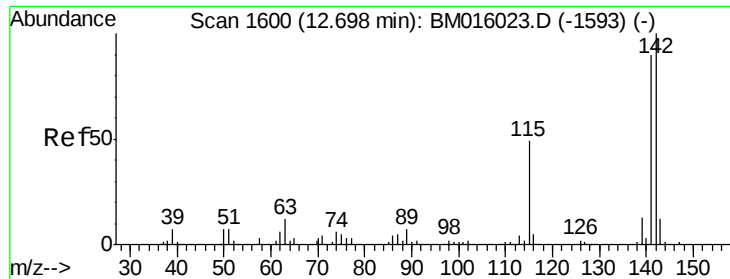
Tgt Ion:113 Resp: 12319  
 Ion Ratio Lower Upper  
 113 100  
 55 158.5 145.9 185.9  
 56 130.4 101.0 141.0



#36  
 4-Chloro-3-methylphenol  
 Concen: 43.467 ng  
 RT: 12.24 min Scan# 1522  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:107 Resp: 74657  
 Ion Ratio Lower Upper  
 107 100  
 144 23.2 23.3 34.9#  
 142 73.8 72.6 109.0

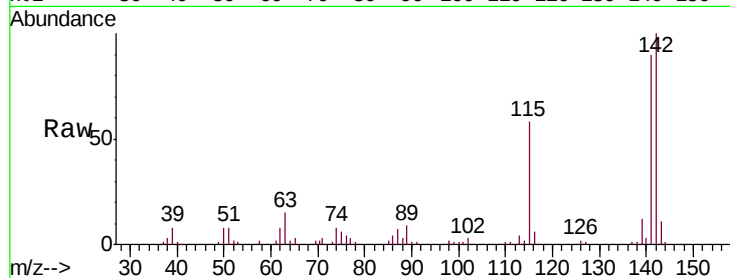




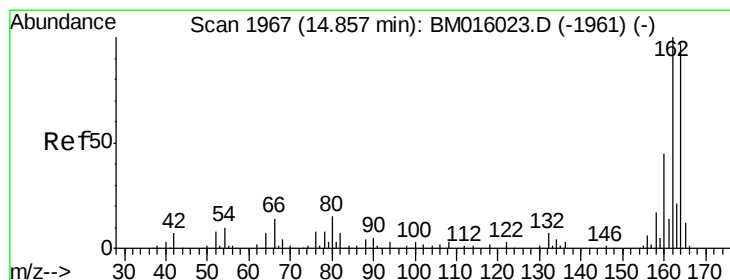
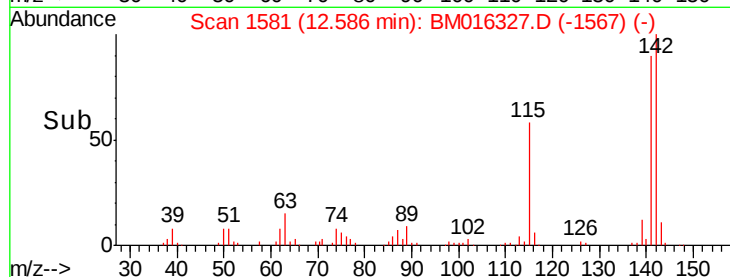
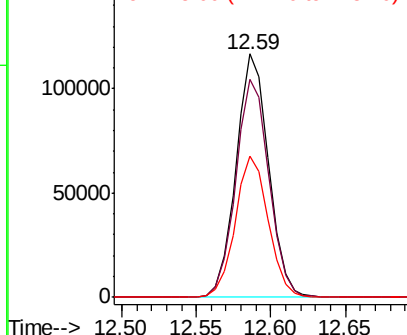
#37  
 2-Methylnaphthalene  
 Concen: 49.930 ng  
 RT: 12.59 min Scan# 1581  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

Tgt Ion:142 Resp: 176745  
 Ion Ratio Lower Upper  
 142 100  
 141 89.7 71.9 107.9  
 115 58.1 25.4 38.0#

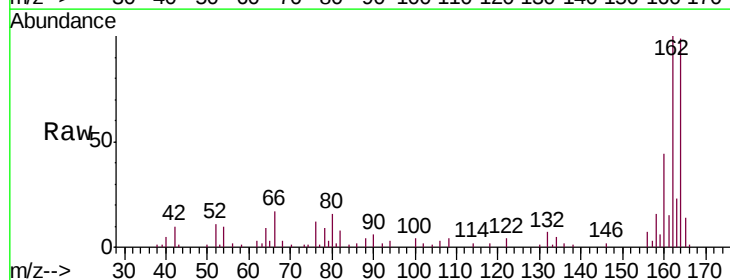


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

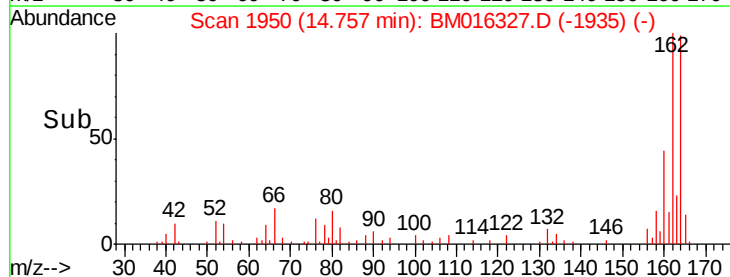
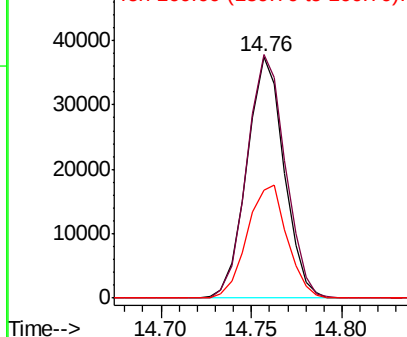


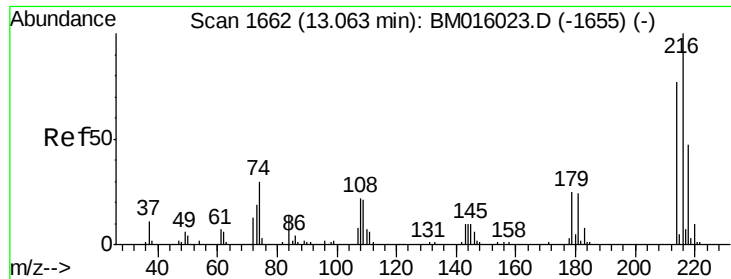
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.76 min Scan# 1950  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:164 Resp: 53693  
 Ion Ratio Lower Upper  
 164 100  
 162 100.7 82.4 123.6  
 160 44.6 35.8 53.6



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

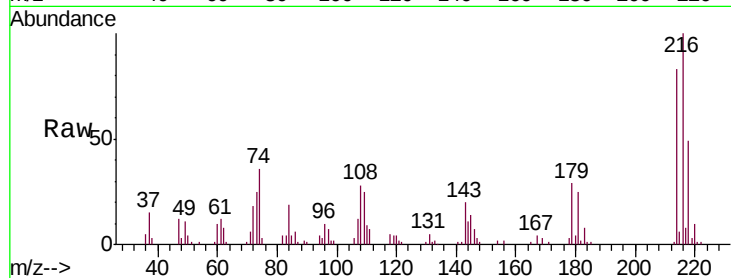




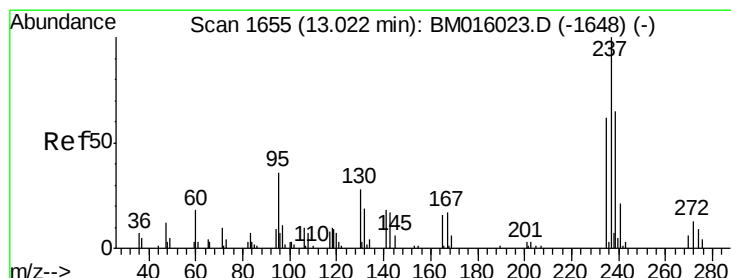
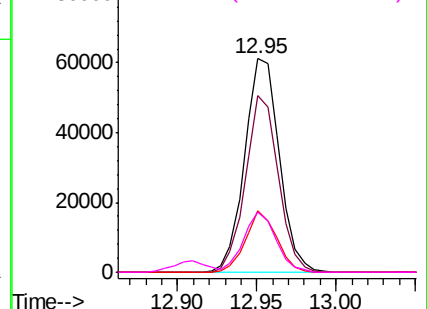
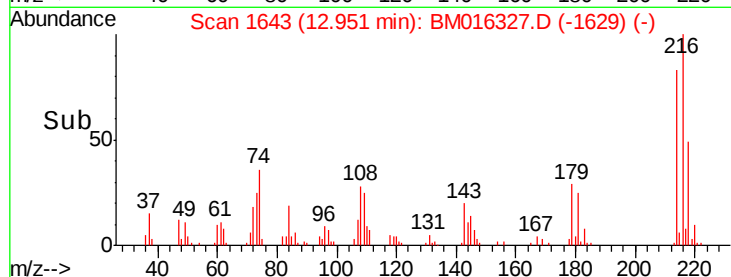
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 50.931 ng  
 RT: 12.95 min Scan# 1643  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 216   | Resp: | 93100 |
| Ion      | Ratio | Lower | Upper |
| 216      | 100   |       |       |
| 214      | 78.0  | 0.0   | 0.0#  |
| 179      | 25.8  | 0.0   | 0.0#  |
| 108      | 26.2  | 0.0   | 0.0#  |

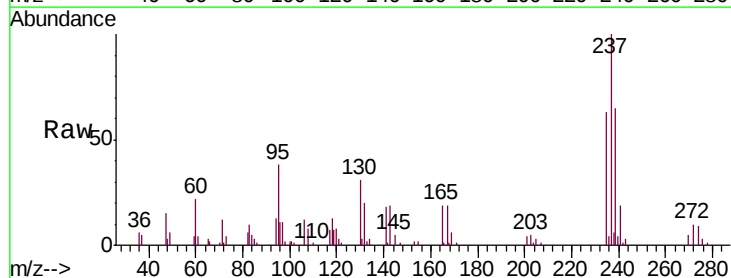


Abundance Ion 216.00 (215.70 to 216.70): E  
 Ion 214.00 (213.70 to 214.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 108.00 (107.70 to 108.70): E

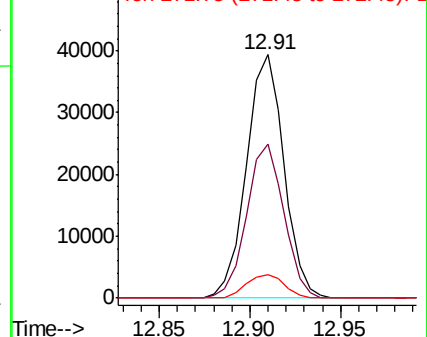
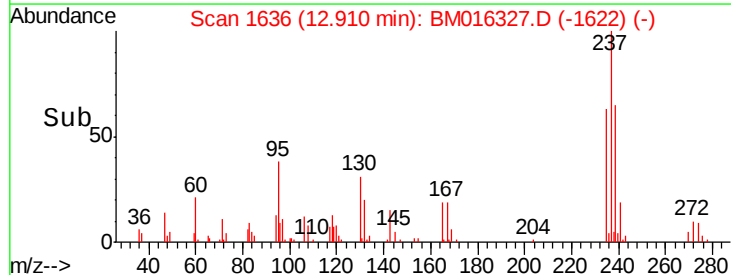


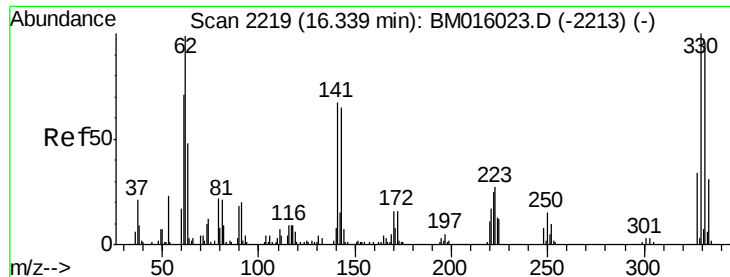
#40  
 Hexachlorocyclopentadiene  
 Concen: 64.664 ng  
 RT: 12.91 min Scan# 1636  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 237   | Resp: | 56561 |
| Ion      | Ratio | Lower | Upper |
| 237      | 100   |       |       |
| 235      | 63.2  | 42.0  | 82.0  |
| 272      | 9.6   | 0.0   | 33.4  |



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

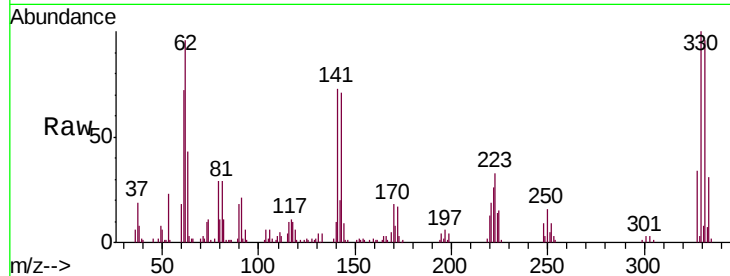




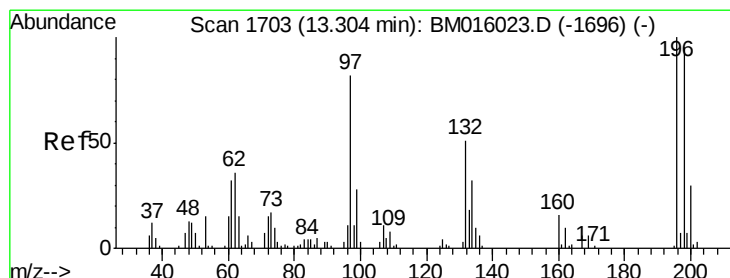
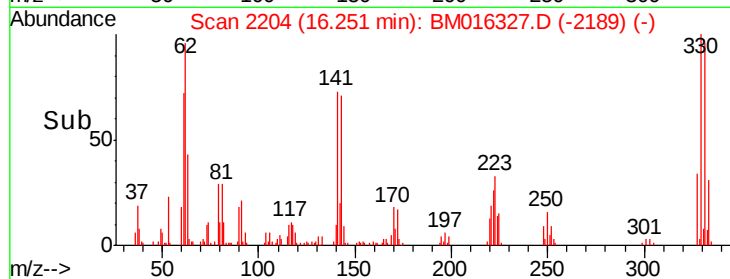
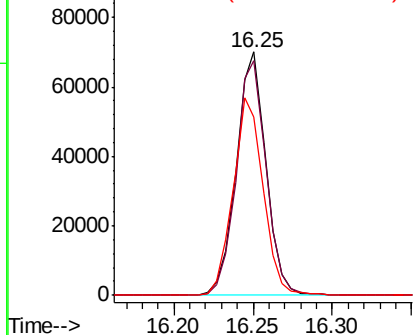
#41  
 2,4,6-Tribromophenol  
 Concen: 64.664 ng  
 RT: 16.25 min Scan# 2204  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

Tgt Ion:330 Resp: 90401  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 0.0 0.0#  
 141 82.6 0.0 0.0#

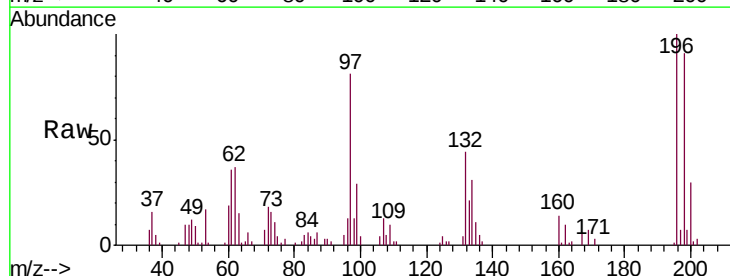


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

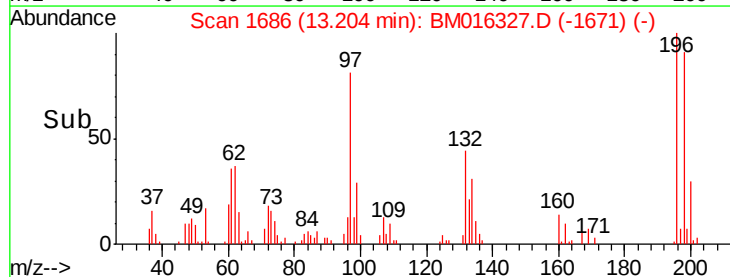
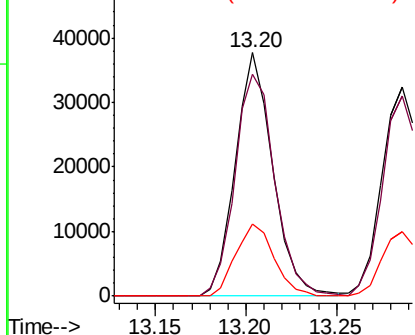


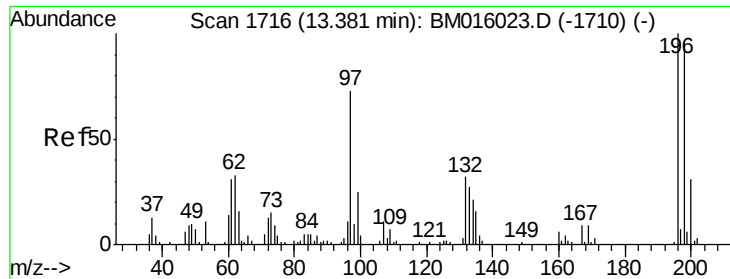
#42  
 2,4,6-Trichlorophenol  
 Concen: 47.457 ng  
 RT: 13.20 min Scan# 1686  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:196 Resp: 54275  
 Ion Ratio Lower Upper  
 196 100  
 198 91.3 76.3 114.5  
 200 29.6 25.6 38.4



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

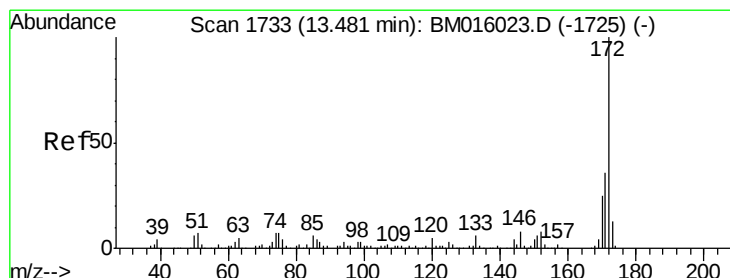
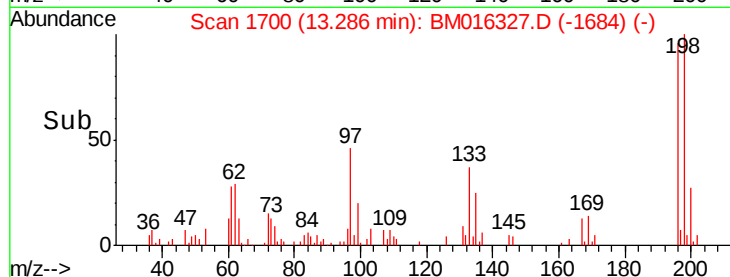
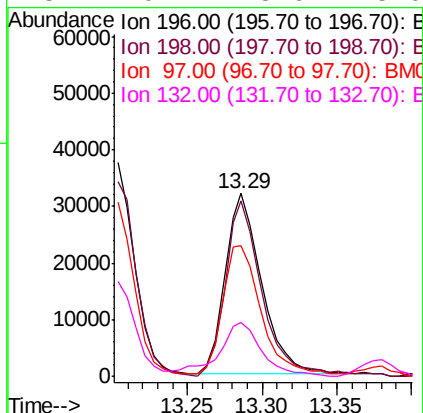
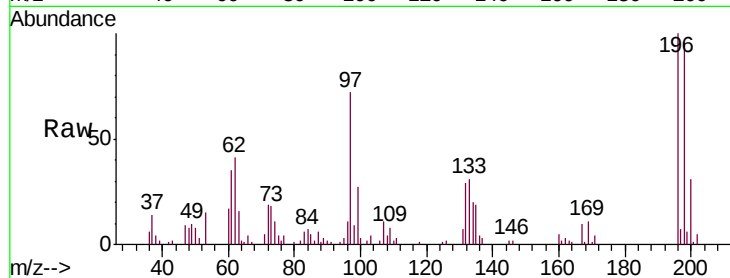




#43  
 2,4,5-Trichlorophenol  
 Concen: 46.035 ng  
 RT: 13.29 min Scan# 1700  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

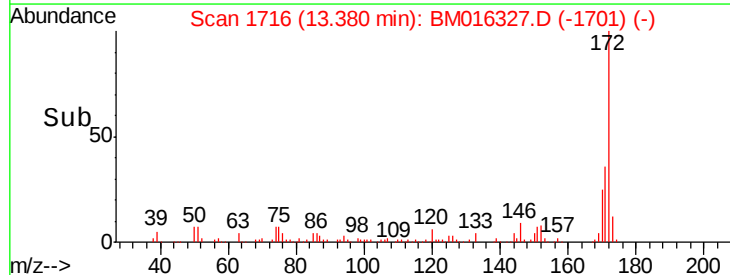
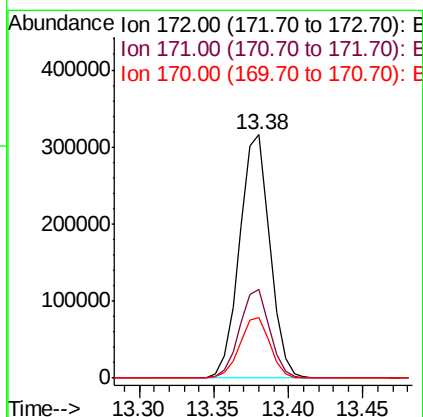
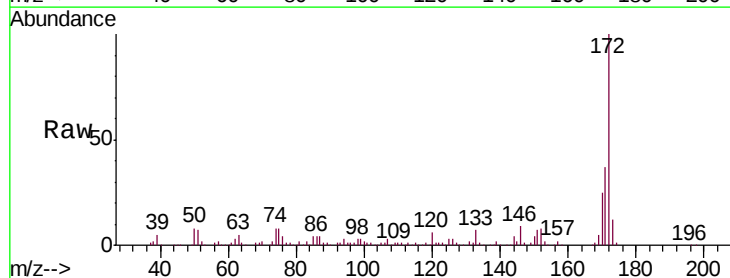
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

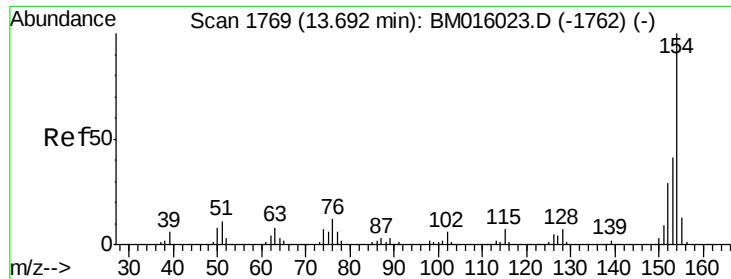
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 95.9  | 79.4  | 119.0 |
| 97      | 71.6  | 26.8  | 40.2  |
| 132     | 29.2  | 18.6  | 28.0  |



#44  
 2-Fluorobiphenyl  
 Concen: 46.035 ng  
 RT: 13.38 min Scan# 1716  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 28.5  | 42.7  |
| 170     | 25.0  | 18.8  | 28.2  |

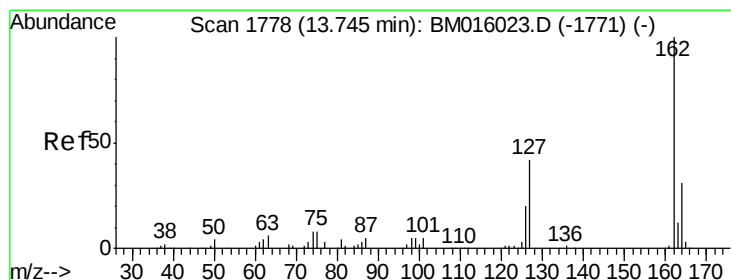
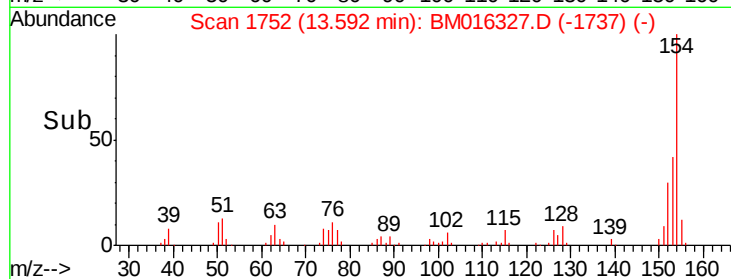
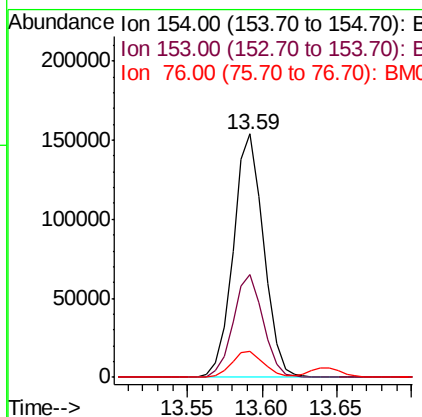
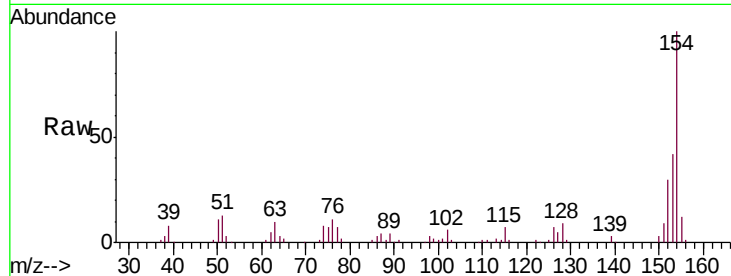




#45  
 1,1'-Biphenyl  
 Concen: 44.968 ng  
 RT: 13.59 min Scan# 1752  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

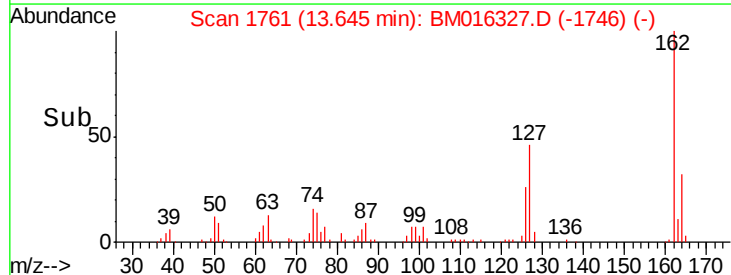
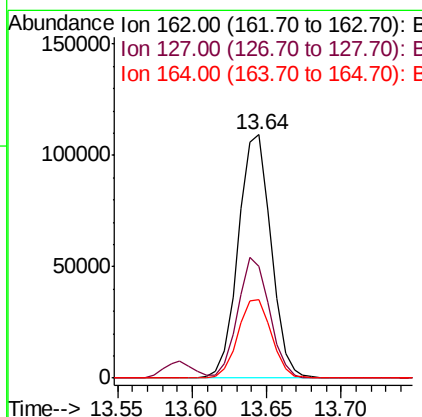
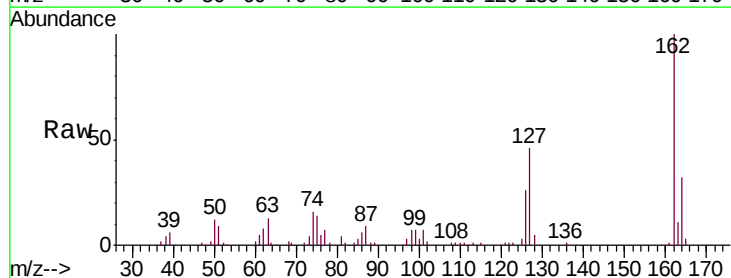
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

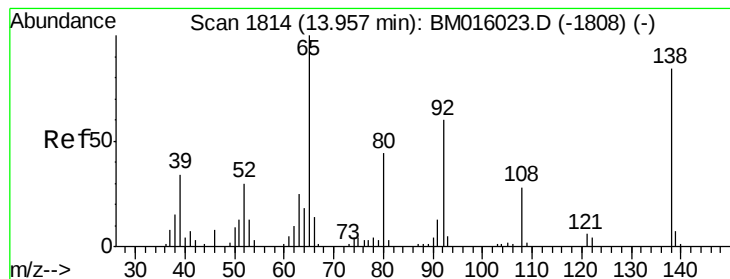
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 42.3  | 20.7  | 60.7  |
| 76      | 10.8  | 0.0   | 30.9  |



#46  
 2-Chloronaphthalene  
 Concen: 44.208 ng  
 RT: 13.64 min Scan# 1761  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 46.0  | 26.9  | 40.3# |
| 164     | 32.4  | 26.8  | 40.2  |





#47

2-Nitroaniline

Concen: 44.809 ng

RT: 13.87 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

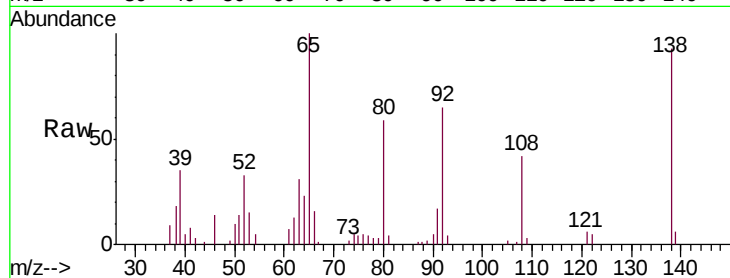
Tgt Ion: 65 Resp: 55832

Ion Ratio Lower Upper

65 100

92 65.5 59.1 88.7

138 93.4 93.9 140.9#

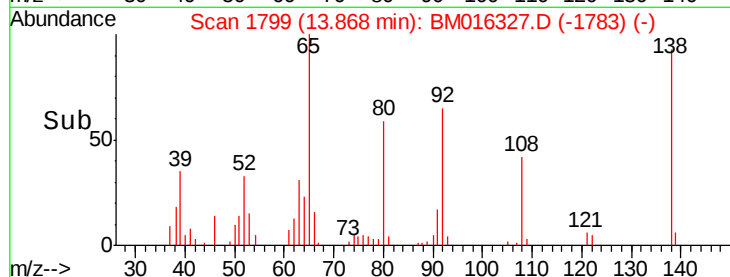


Abundance Ion 65.00 (64.70 to 65.70): BM016327.D (-1783) (-)

Ion 92.00 (91.70 to 92.70): BM016327.D (-1783) (-)

Ion 138.00 (137.70 to 138.70): BM016327.D (-1783) (-)

Time-->



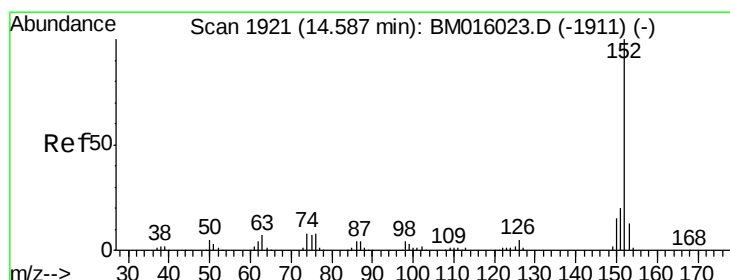
Abundance

Ion 65.00 (64.70 to 65.70): BM016327.D (-1783) (-)

Ion 92.00 (91.70 to 92.70): BM016327.D (-1783) (-)

Ion 138.00 (137.70 to 138.70): BM016327.D (-1783) (-)

Time-->



#48

Acenaphthylene

Concen: 47.534 ng

RT: 14.49 min Scan# 1904

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

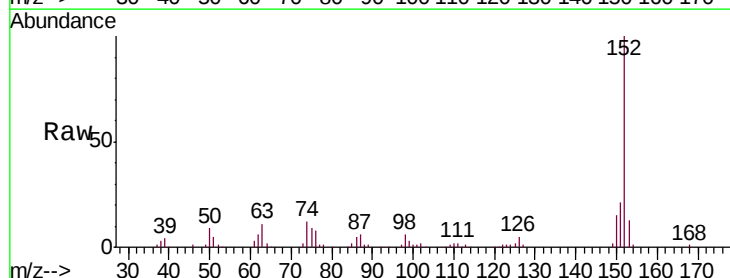
Tgt Ion: 152 Resp: 262260

Ion Ratio Lower Upper

152 100

151 21.1 15.9 23.9

153 13.0 10.6 16.0

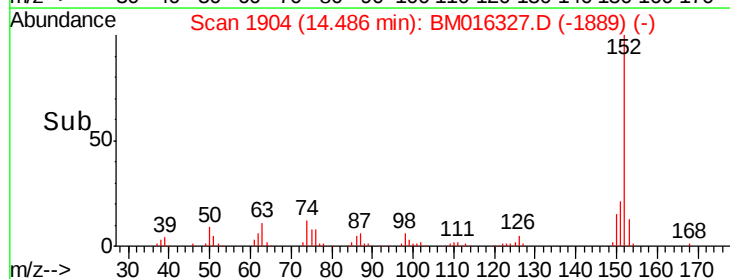


Abundance Ion 152.00 (151.70 to 152.70): BM016327.D (-1889) (-)

Ion 151.00 (150.70 to 151.70): BM016327.D (-1889) (-)

Ion 153.00 (152.70 to 153.70): BM016327.D (-1889) (-)

Time-->



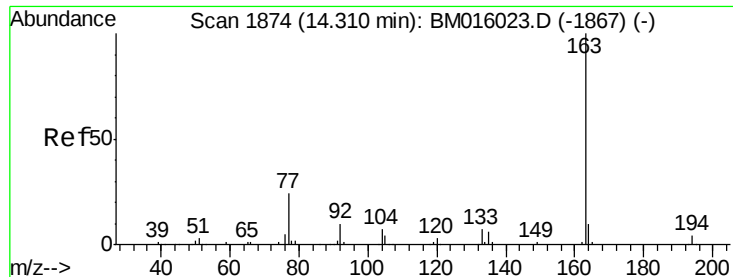
Abundance

Ion 152.00 (151.70 to 152.70): BM016327.D (-1889) (-)

Ion 151.00 (150.70 to 151.70): BM016327.D (-1889) (-)

Ion 153.00 (152.70 to 153.70): BM016327.D (-1889) (-)

Time-->



#49

Dimethylphthalate

Concen: 46.219 ng

RT: 14.22 min Scan# 1858

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

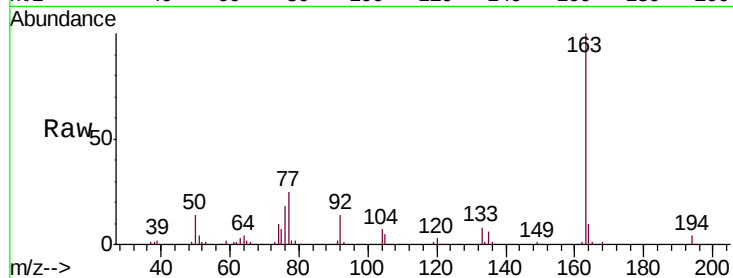
Tgt Ion:163 Resp: 217182

Ion Ratio Lower Upper

163 100

194 3.7 2.7 4.1

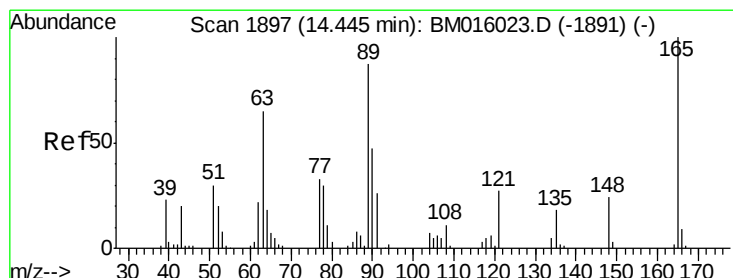
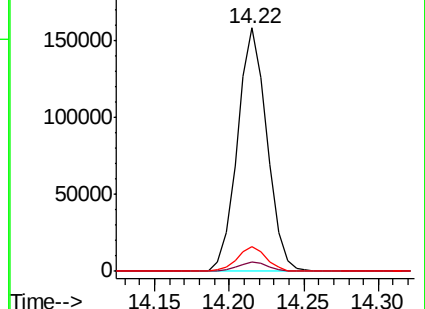
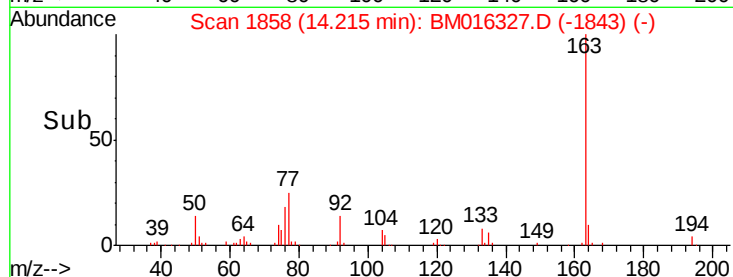
164 10.4 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 42.995 ng

RT: 14.36 min Scan# 1882

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

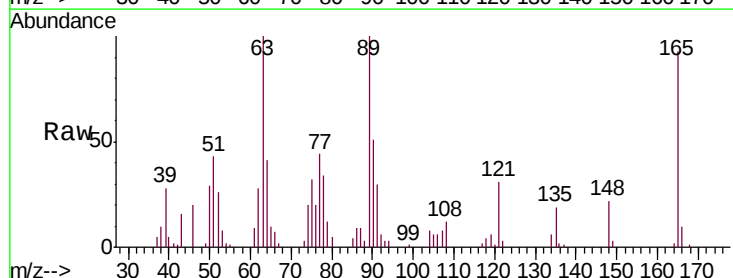
Tgt Ion:165 Resp: 40650

Ion Ratio Lower Upper

165 100

63 108.0 44.1 66.1#

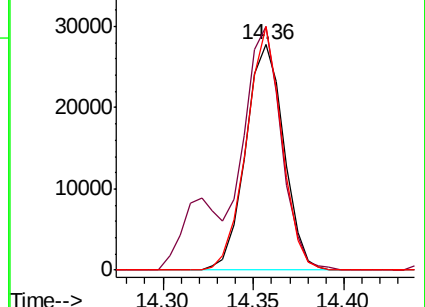
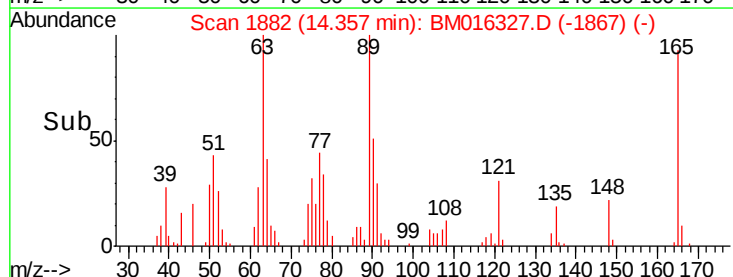
89 108.0 44.3 66.5#

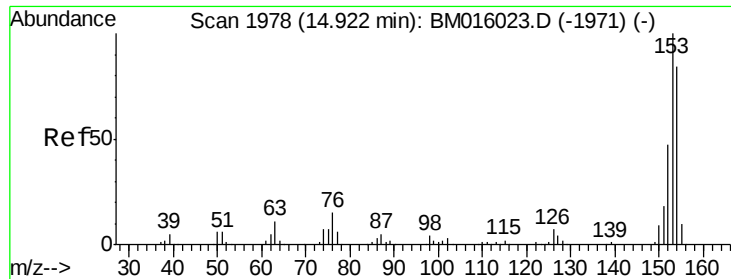


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 89.00 (88.70 to 89.70): BM0





#51

Acenaphthene

Concen: 44.638 ng

RT: 14.82 min Scan# 1961

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

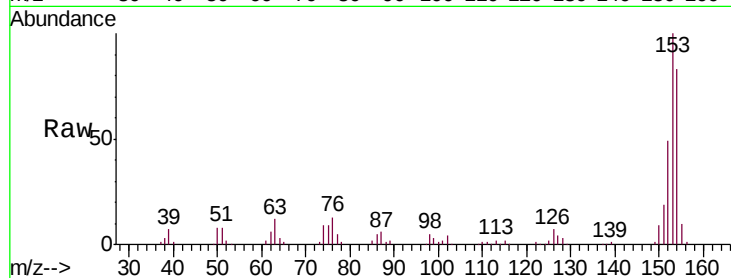
Tgt Ion:154 Resp: 151469

Ion Ratio Lower Upper

154 100

153 121.0 90.0 135.0

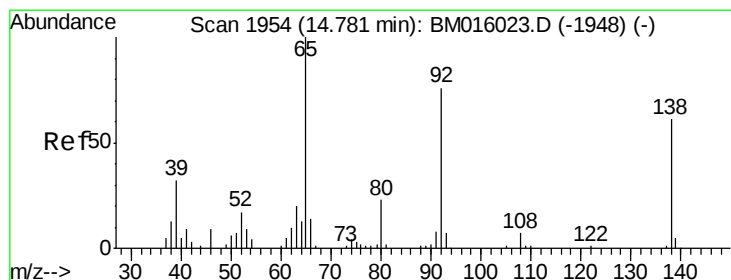
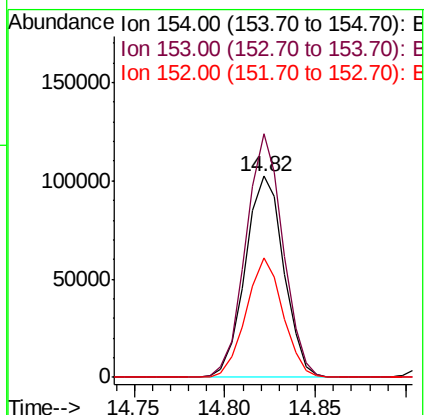
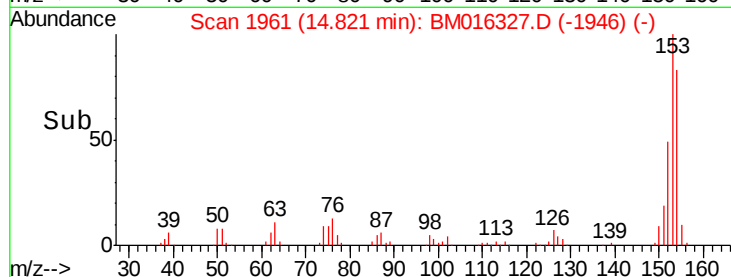
152 59.3 42.6 63.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 22.920 ng

RT: 14.69 min Scan# 1939

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

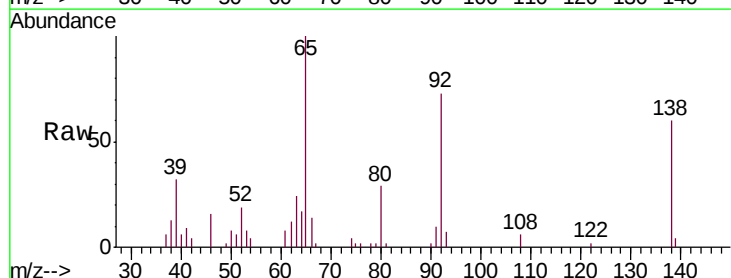
Tgt Ion:138 Resp: 23406

Ion Ratio Lower Upper

138 100

108 10.7 7.3 10.9

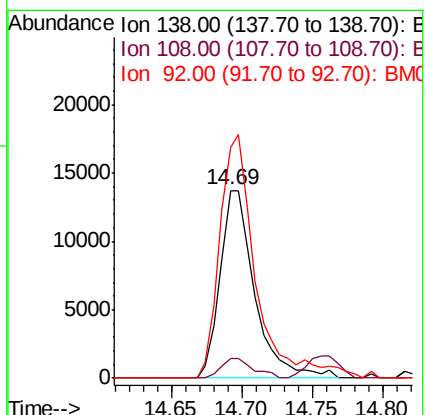
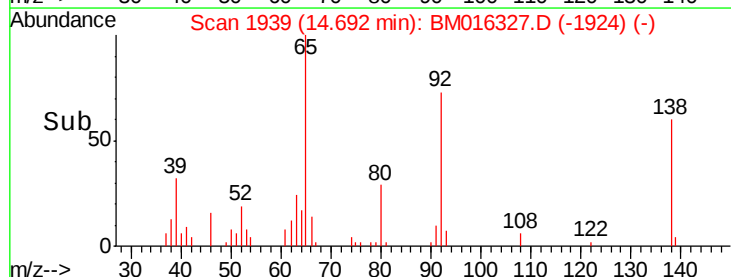
92 122.7 76.6 114.8#

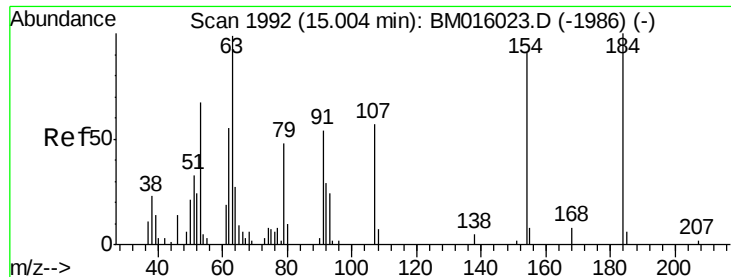


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): E

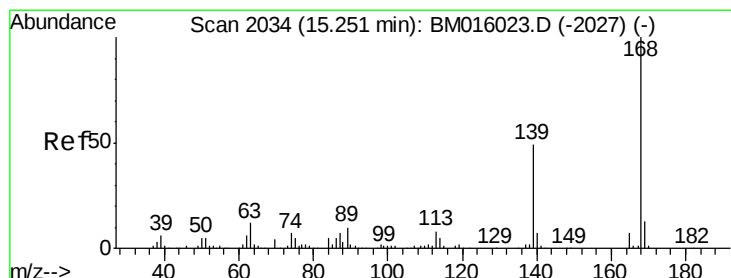
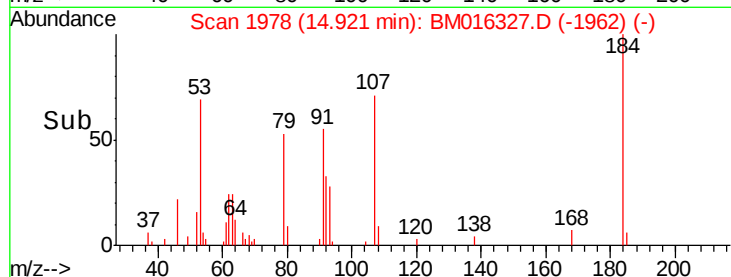
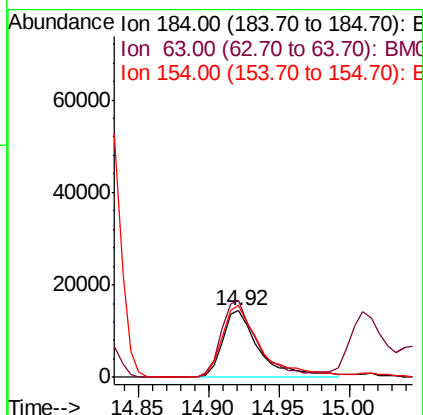
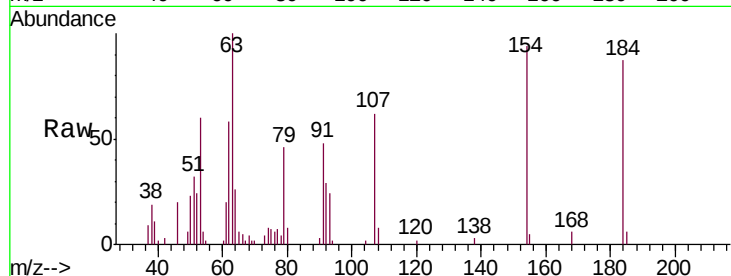




#53  
2,4-Dinitrophenol  
Concen: 66.235 ng  
RT: 14.92 min Scan# 1978  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

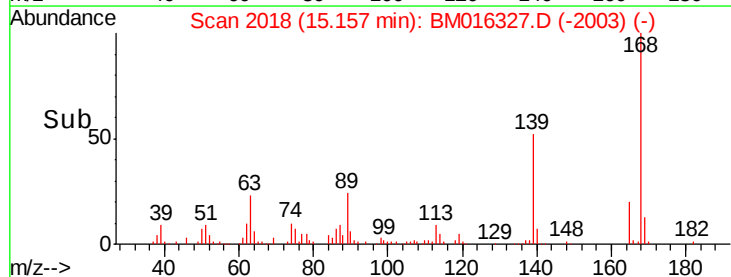
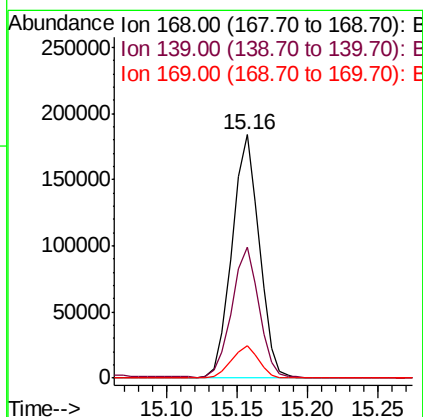
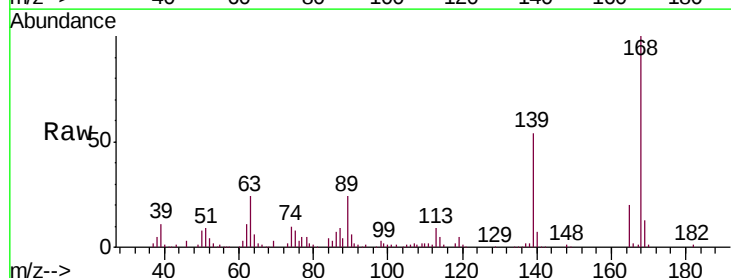
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

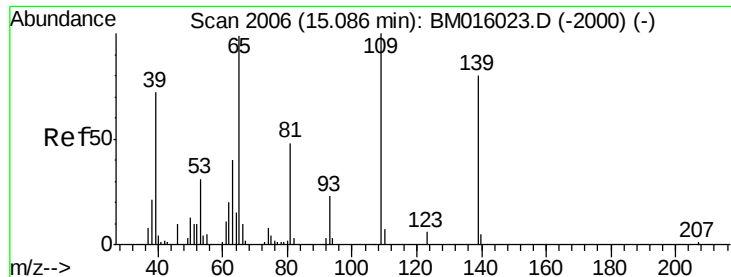
Tgt Ion:184 Resp: 26427  
Ion Ratio Lower Upper  
184 100  
63 114.9 69.2 103.8#  
154 107.8 53.3 79.9#



#54  
Dibenzofuran  
Concen: 44.391 ng  
RT: 15.16 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion:168 Resp: 248220  
Ion Ratio Lower Upper  
168 100  
139 53.6 27.3 40.9#  
169 13.4 10.6 16.0

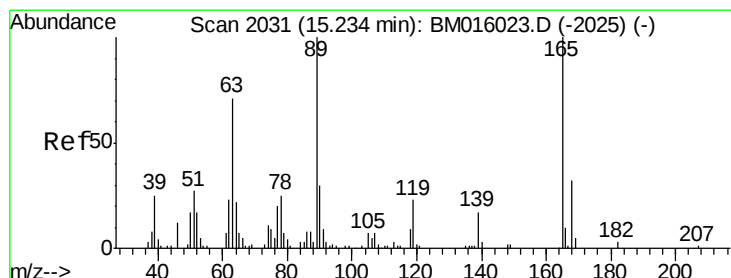
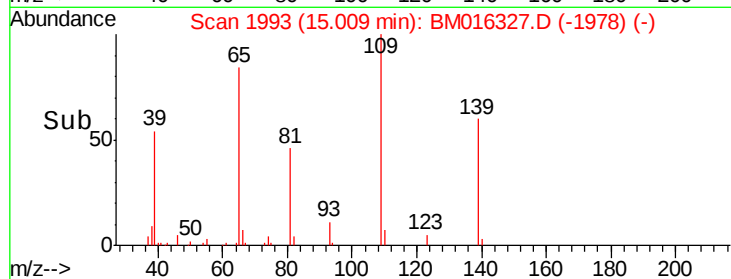
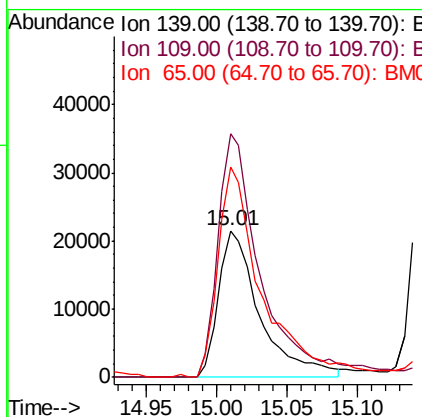
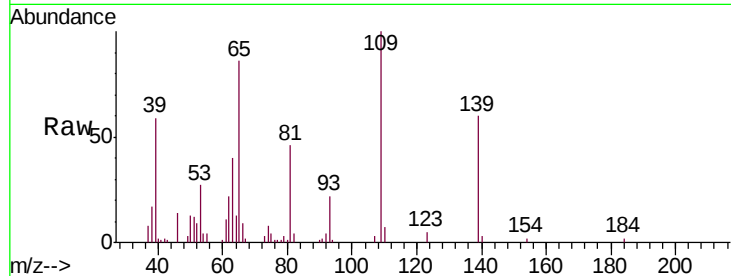




#55  
4-Nitrophenol  
Concen: 60.305 ng  
RT: 15.01 min Scan# 1993  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

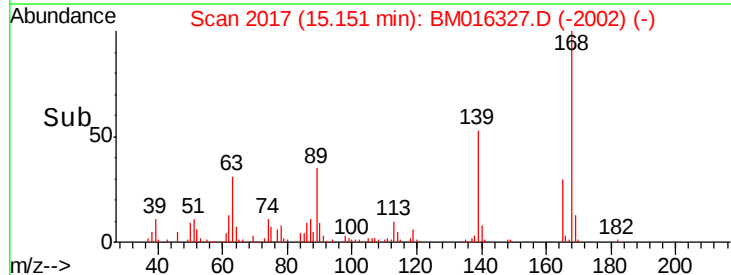
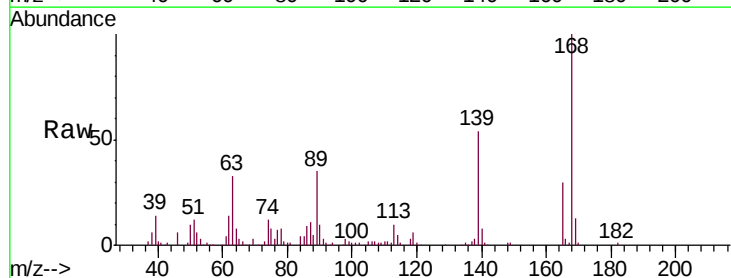
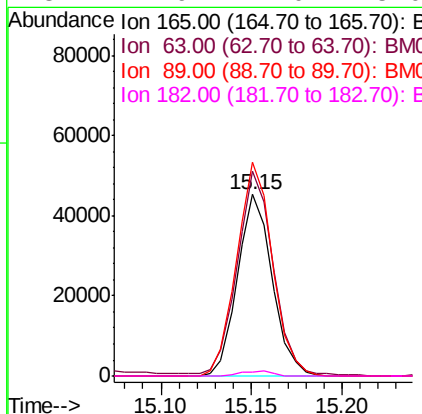
Instrument :  
BNA\_M  
ClientSampleId :  
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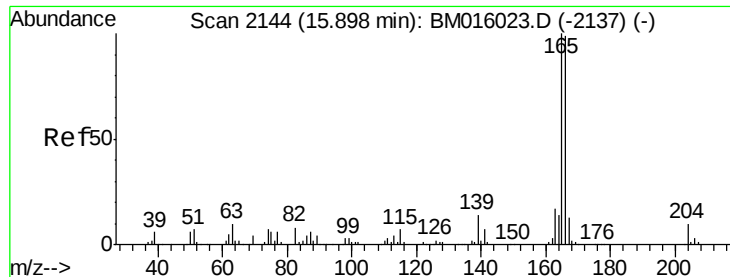
Tgt Ion:139 Resp: 44147  
Ion Ratio Lower Upper  
139 100  
109 165.7 130.0 170.0  
65 143.2 130.0 170.0



#56  
2,4-Dinitrotoluene  
Concen: 44.569 ng  
RT: 15.15 min Scan# 2017  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion:165 Resp: 60251  
Ion Ratio Lower Upper  
165 100  
63 112.5 52.4 78.6#  
89 117.7 72.4 108.6#  
182 1.9 2.0 3.0#

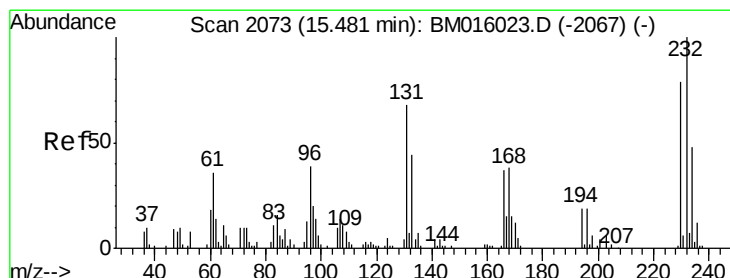
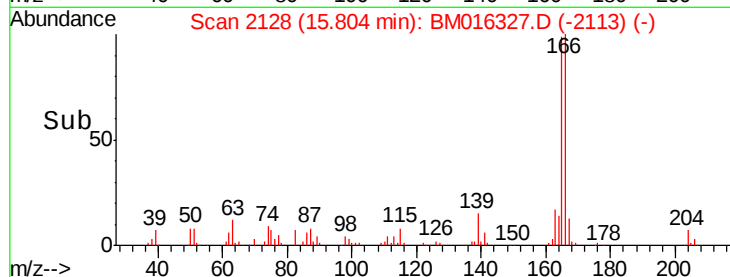
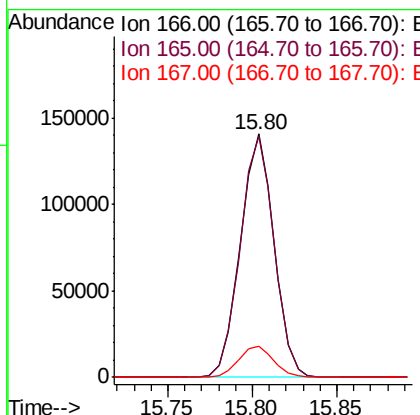
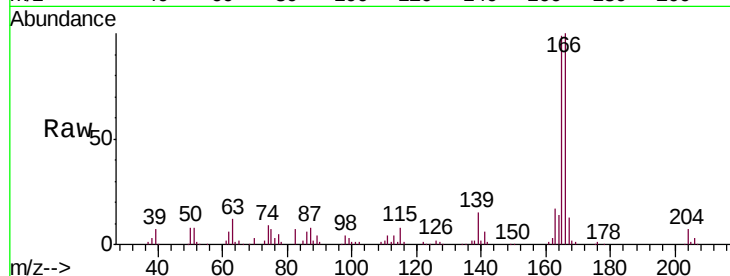




#57  
 Fluorene  
 Concen: 46.961 ng  
 RT: 15.80 min Scan# 2128  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

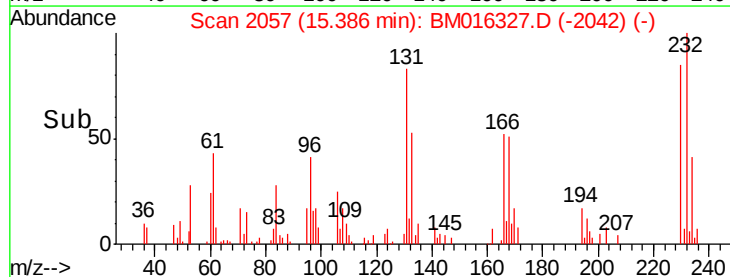
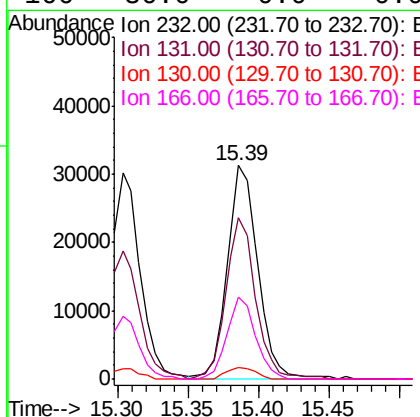
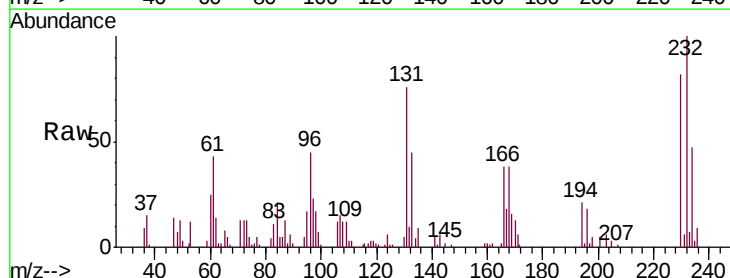
Instrument :  
 BNA\_M  
 ClientSampleId :  
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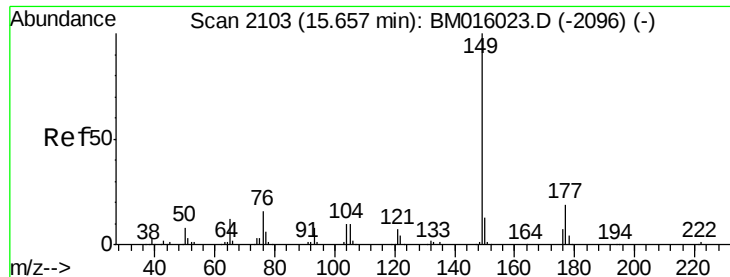
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.2  | 79.0  | 118.4 |
| 167     | 12.9  | 10.3  | 15.5  |



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 46.522 ng  
 RT: 15.39 min Scan# 2057  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 73.3  | 0.0   | 0.0#  |
| 130     | 5.0   | 0.0   | 0.0#  |
| 166     | 36.0  | 0.0   | 0.0#  |

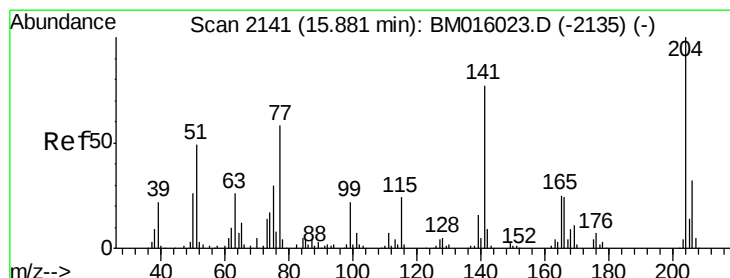
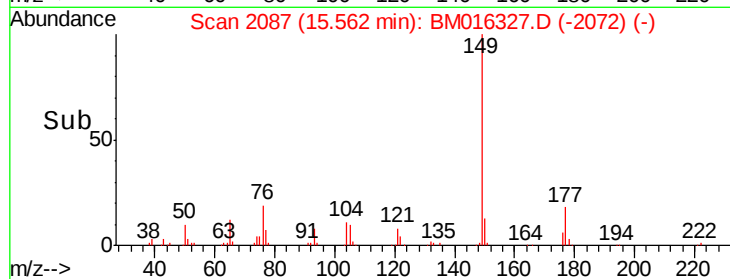
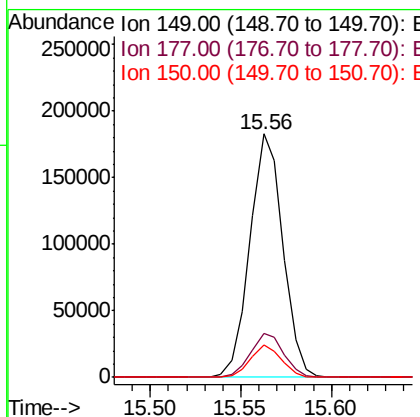
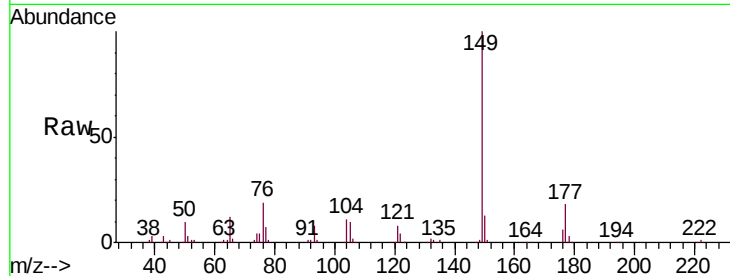




#59  
Diethylphthalate  
Concen: 45.634 ng  
RT: 15.56 min Scan# 2087  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

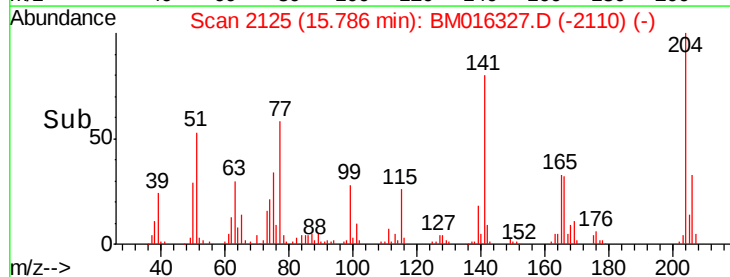
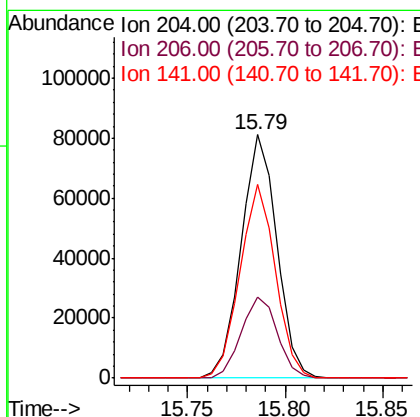
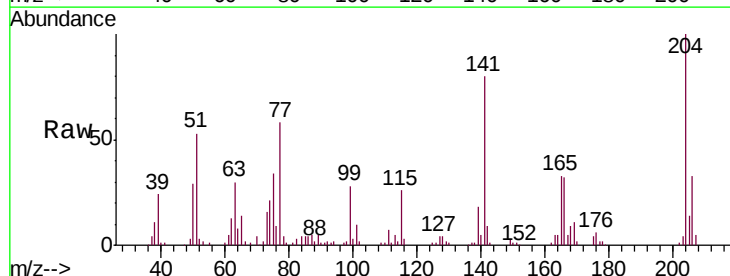
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

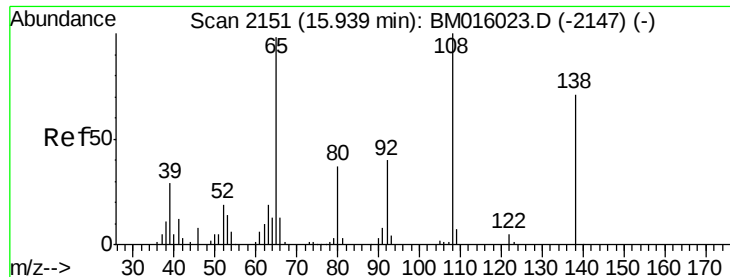
Tgt Ion:149 Resp: 231127  
Ion Ratio Lower Upper  
149 100  
177 18.2 18.3 27.5#  
150 13.2 9.8 14.8



#60  
4-Chlorophenyl-phenylether  
Concen: 44.520 ng  
RT: 15.79 min Scan# 2125  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion:204 Resp: 102982  
Ion Ratio Lower Upper  
204 100  
206 33.3 26.6 39.8  
141 79.8 45.2 67.8#

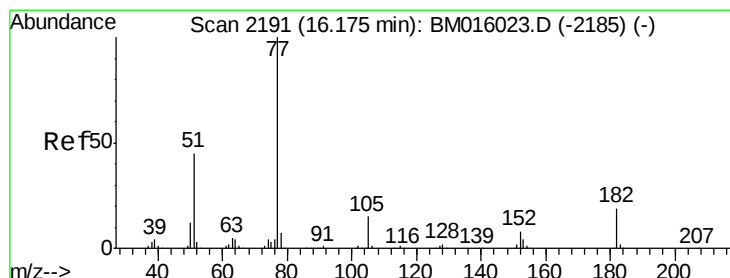
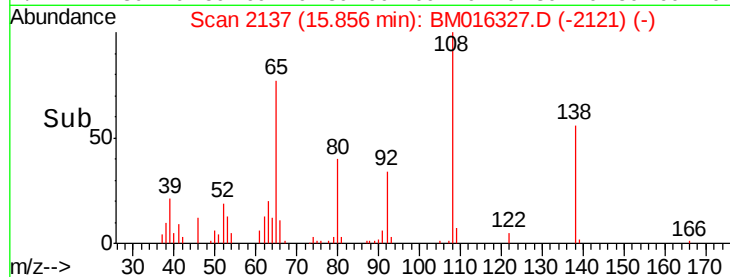
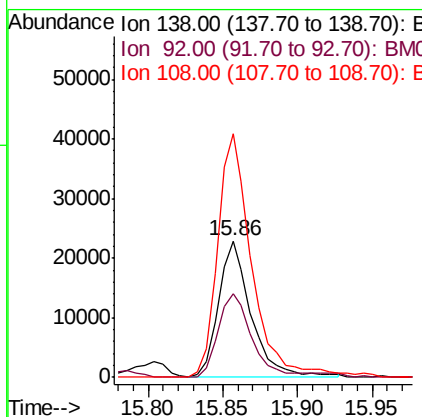
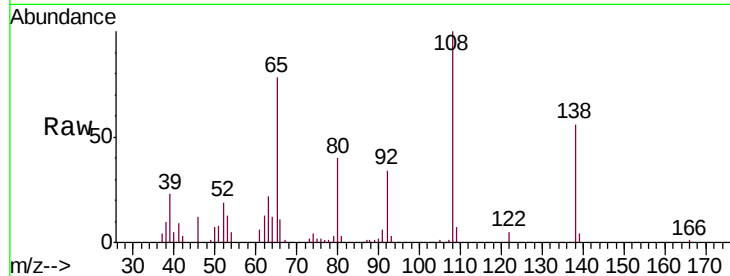




#61  
4-Nitroaniline  
Concen: 35.961 ng  
RT: 15.86 min Scan# 2137  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

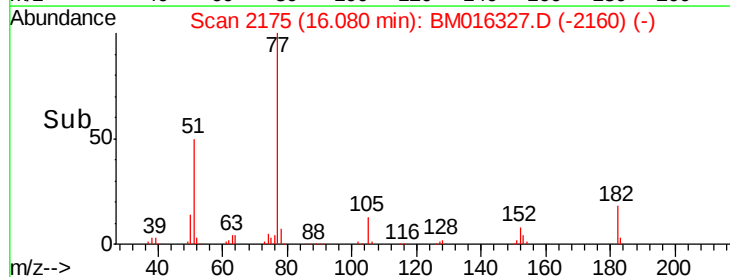
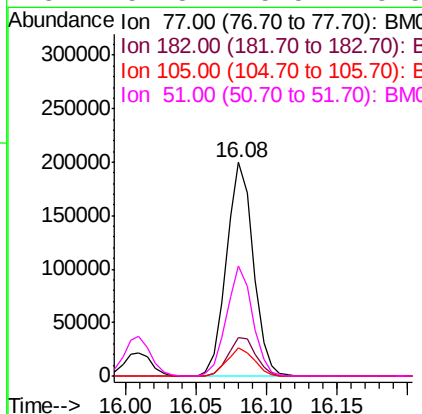
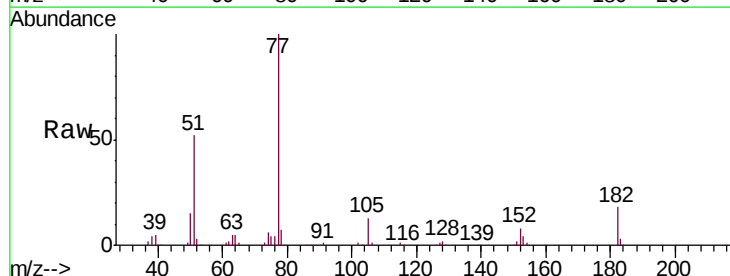
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

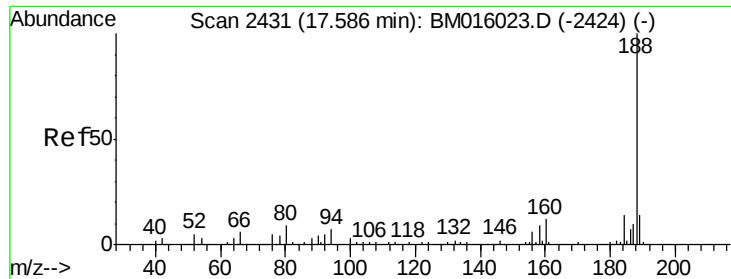
Tgt Ion:138 Resp: 35234  
Ion Ratio Lower Upper  
138 100  
92 61.6 16.7 56.7#  
108 178.6 37.6 77.6#



#62  
Azobenzene  
Concen: 49.636 ng  
RT: 16.08 min Scan# 2175  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion: 77 Resp: 264760  
Ion Ratio Lower Upper  
77 100  
182 17.9 6.5 46.5  
105 13.0 3.8 43.8  
51 51.8 5.5 45.5#

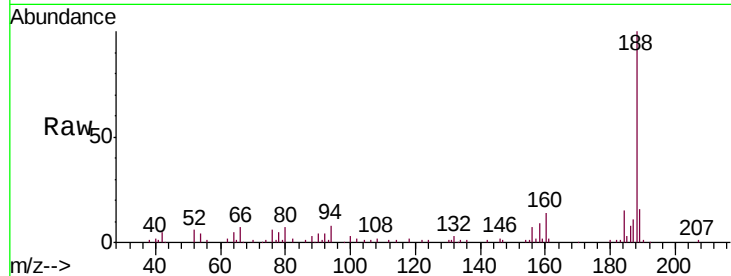




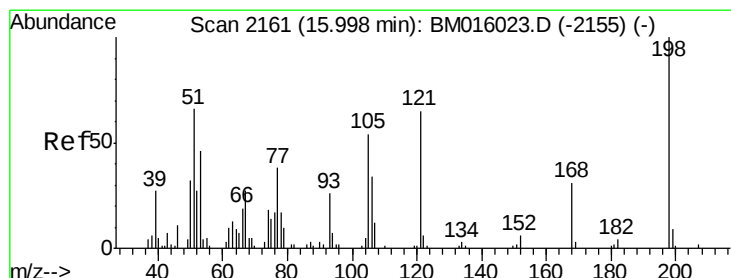
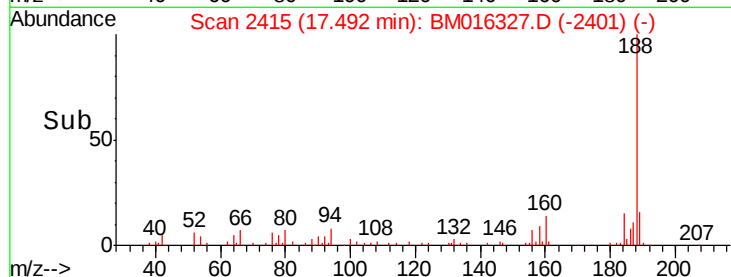
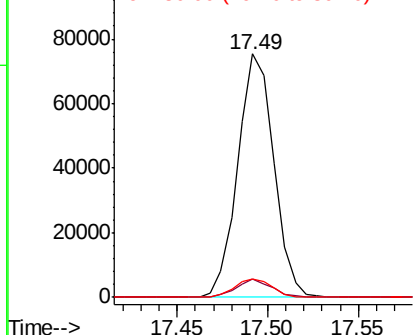
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.49 min Scan# 2415  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
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Tgt Ion:188 Resp: 104438  
 Ion Ratio Lower Upper  
 188 100  
 94 7.6 8.7 13.1#  
 80 7.5 9.3 13.9#

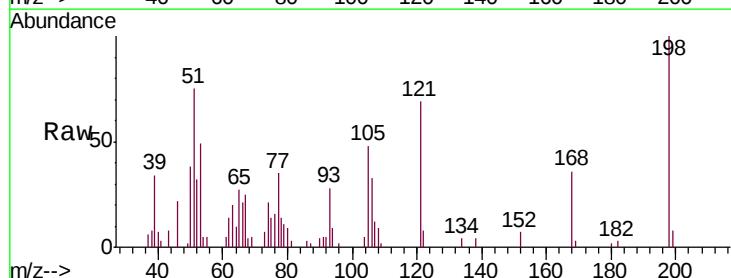


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BM  
 Ion 80.00 (79.70 to 80.70): BM

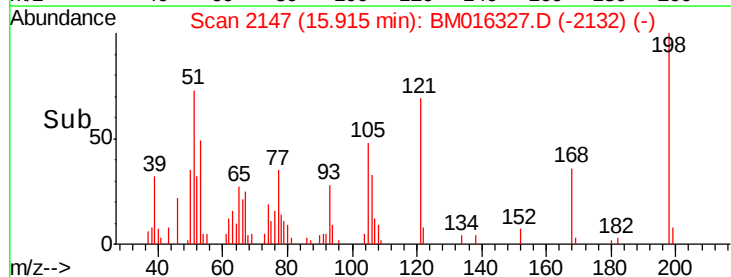
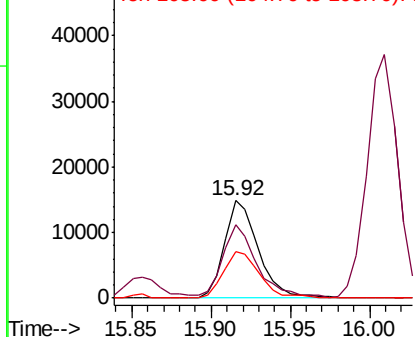


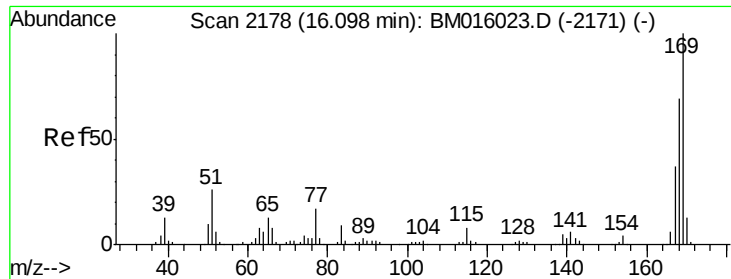
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 34.839 ng  
 RT: 15.92 min Scan# 2147  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:198 Resp: 22085  
 Ion Ratio Lower Upper  
 198 100  
 51 75.4 28.8 68.8#  
 105 48.3 30.5 70.5



Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BM  
 Ion 105.00 (104.70 to 105.70): E

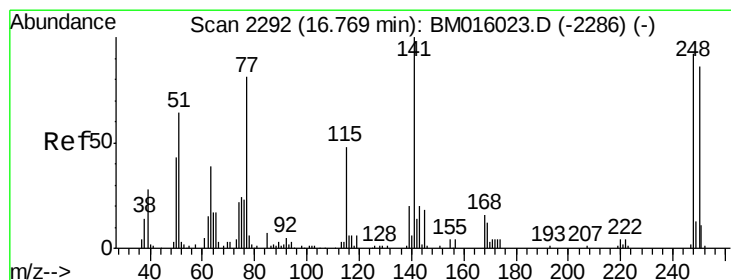
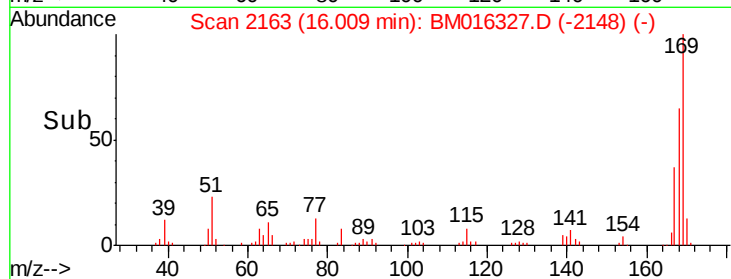
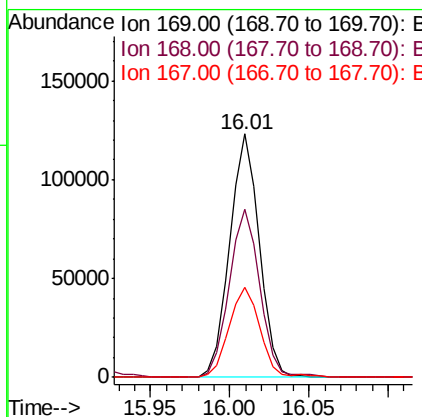
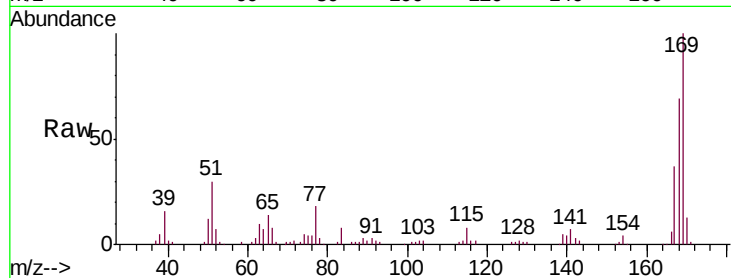




#65  
 n-Nitrosodiphenylamine  
 Concen: 46.303 ng  
 RT: 16.01 min Scan# 2163  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

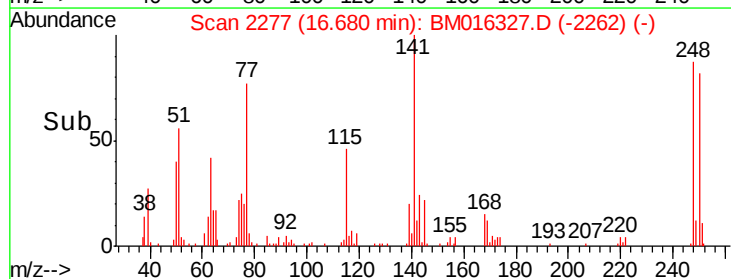
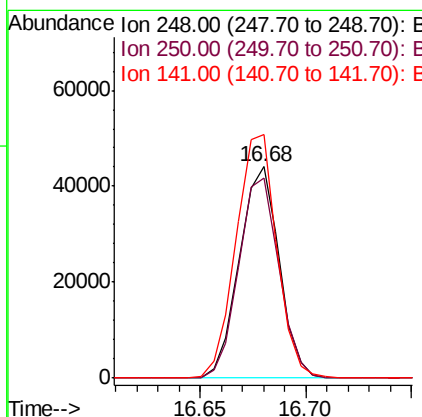
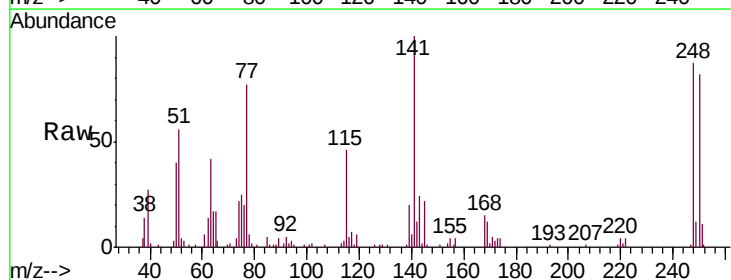
Instrument :  
 BNA\_M  
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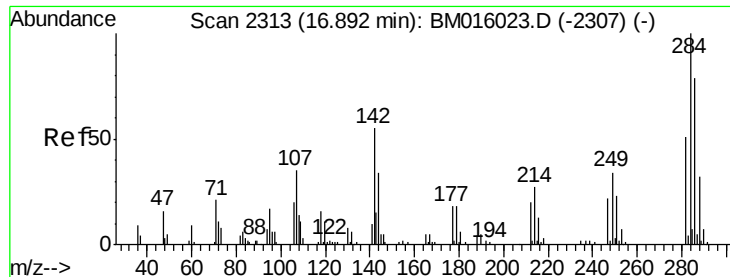
Tgt Ion:169 Resp: 159234  
 Ion Ratio Lower Upper  
 169 100  
 168 69.0 53.9 80.9  
 167 37.1 28.9 43.3



#66  
 4-Bromophenyl-phenylether  
 Concen: 48.727 ng  
 RT: 16.68 min Scan# 2277  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Tgt Ion:248 Resp: 57625  
 Ion Ratio Lower Upper  
 248 100  
 250 94.6 77.4 116.0  
 141 115.3 45.2 67.8#

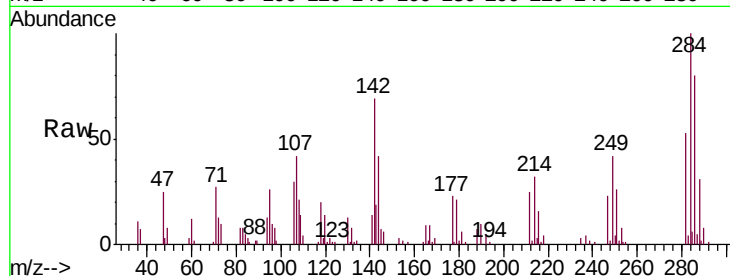




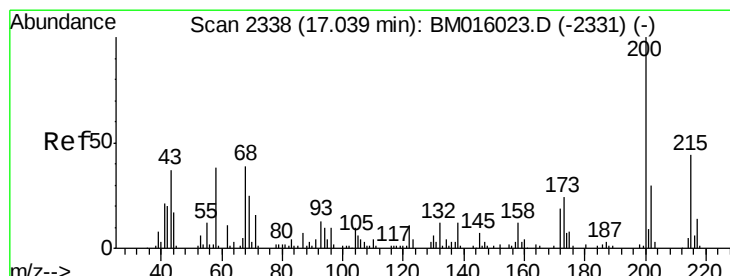
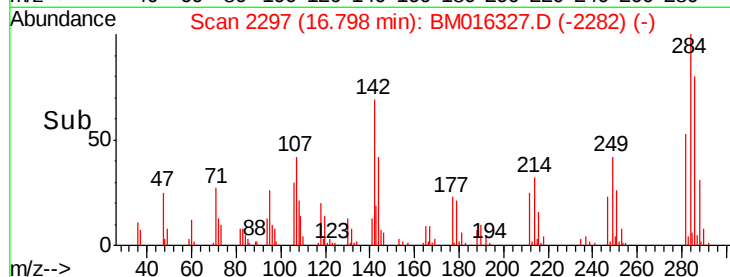
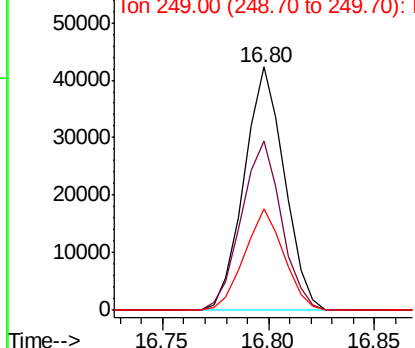
#67  
Hexachlorobenzene  
Concen: 43.016 ng  
RT: 16.80 min Scan# 2297  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

Tgt Ion: 284 Resp: 56021  
Ion Ratio Lower Upper  
284 100  
142 69.3 20.4 30.6#  
249 41.6 23.8 35.6#

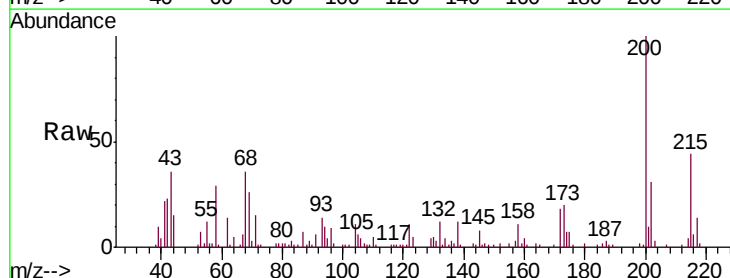


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

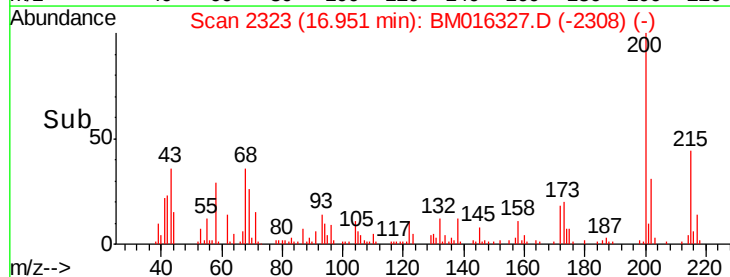
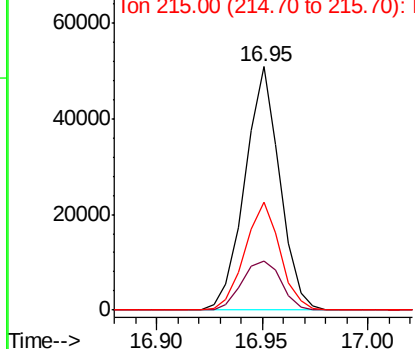


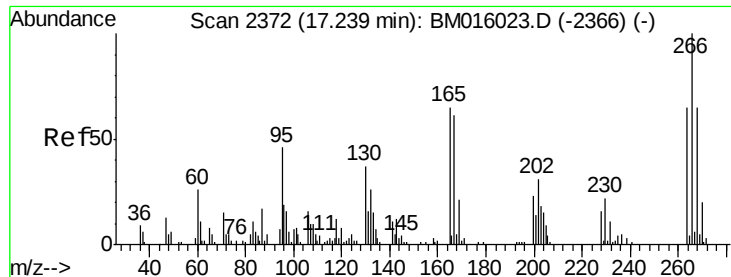
#68  
Atrazine  
Concen: 47.462 ng  
RT: 16.95 min Scan# 2323  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion: 200 Resp: 58499  
Ion Ratio Lower Upper  
200 100  
173 20.3 4.8 44.8  
215 44.1 26.9 66.9



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





#69

Pentachlorophenol

Concen: 69.247 ng

RT: 17.15 min Scan# 2357

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

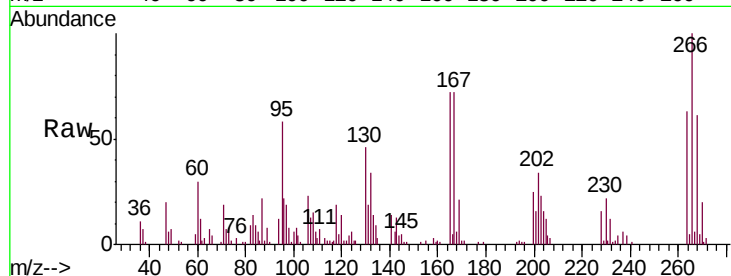
Tgt Ion:266 Resp: 55843

Ion Ratio Lower Upper

266 100

268 61.2 52.0 78.0

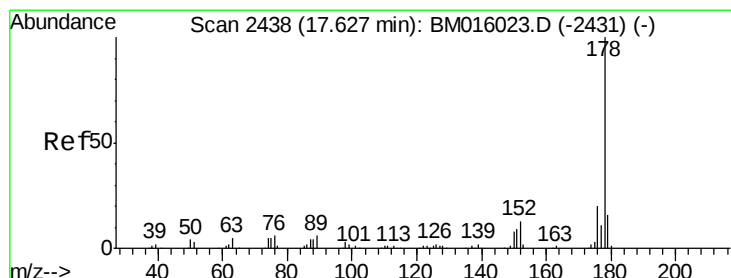
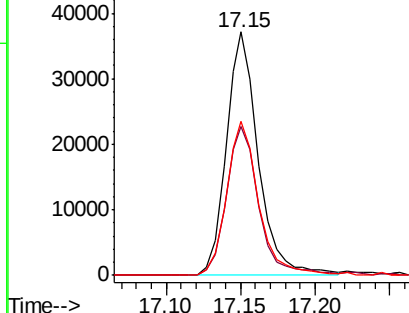
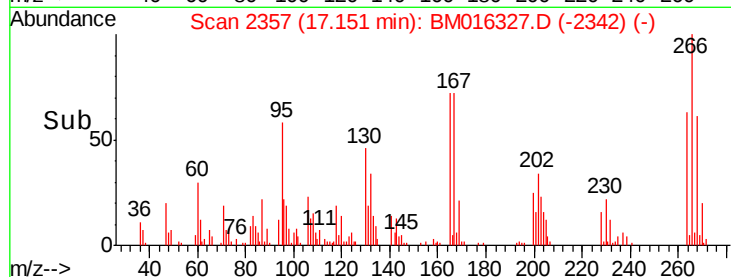
264 63.1 49.0 73.4



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



#70

Phenanthrene

Concen: 48.005 ng

RT: 17.53 min Scan# 2422

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

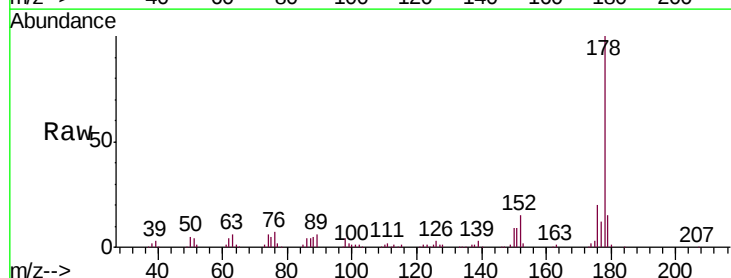
Tgt Ion:178 Resp: 280688

Ion Ratio Lower Upper

178 100

176 20.4 15.2 22.8

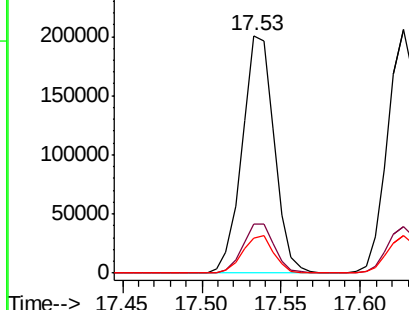
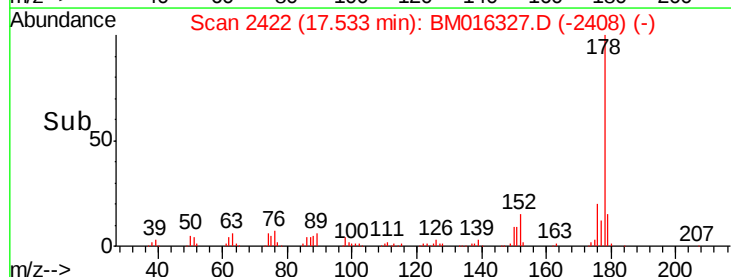
179 14.6 12.1 18.1

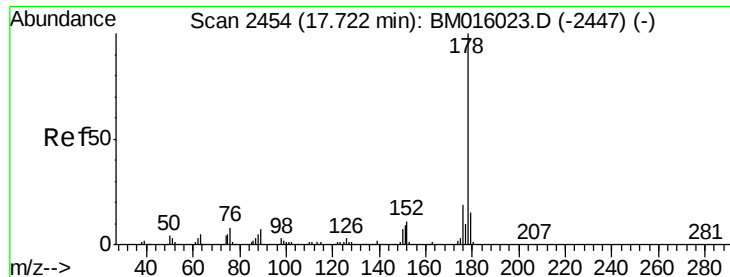


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

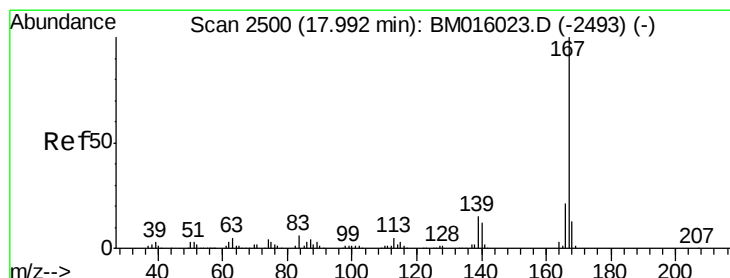
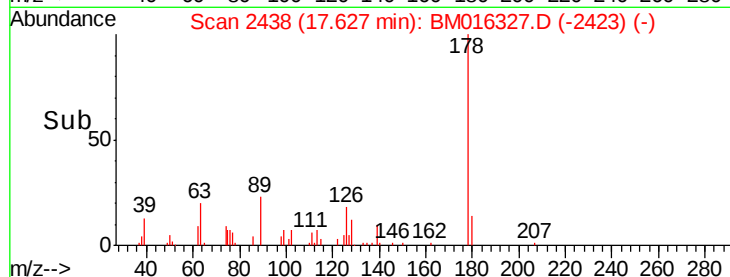
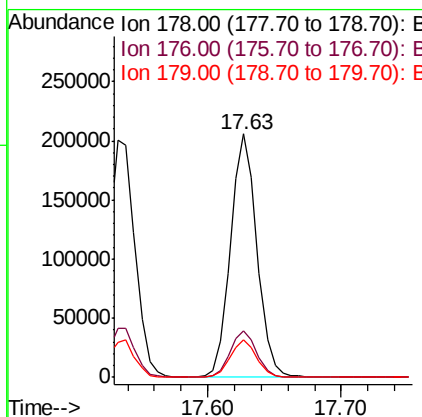
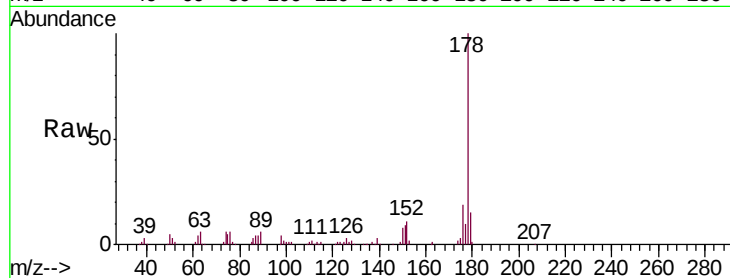




#71  
 Anthracene  
 Concen: 50.250 ng  
 RT: 17.63 min Scan# 2438  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

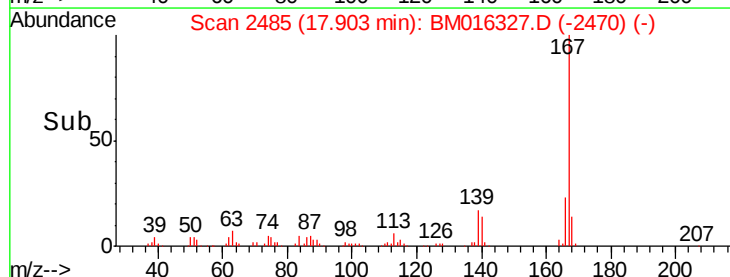
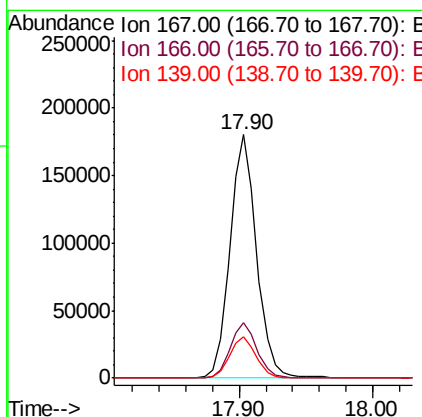
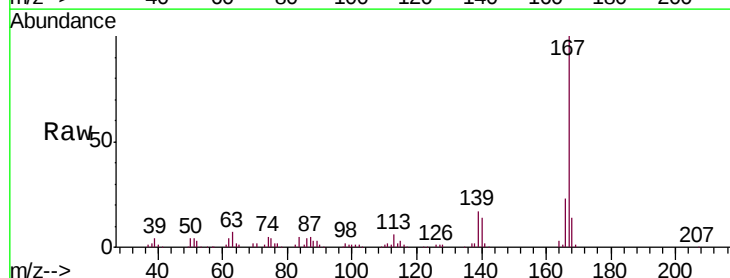
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

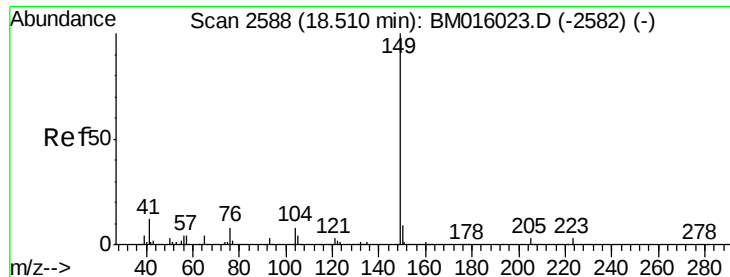
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 14.6  | 22.0  |
| 179     | 15.2  | 12.6  | 19.0  |



#72  
 Carbazole  
 Concen: 42.521 ng  
 RT: 17.90 min Scan# 2485  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.6  | 17.2  | 25.8  |
| 139     | 16.8  | 10.8  | 16.2# |

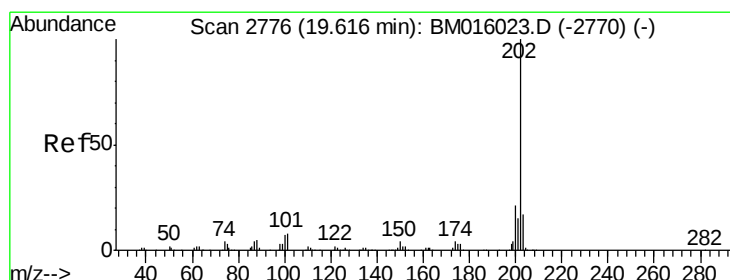
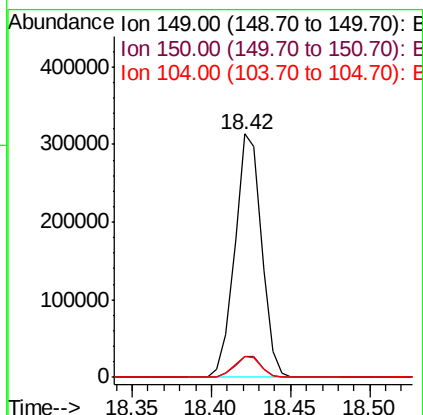
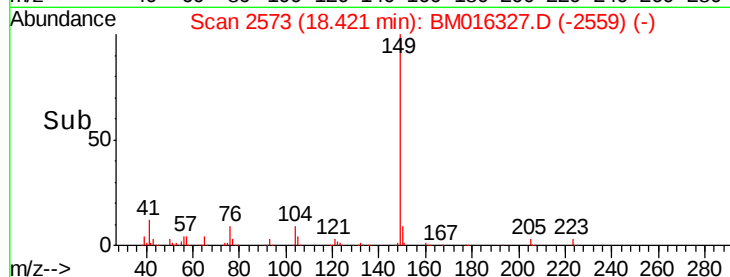
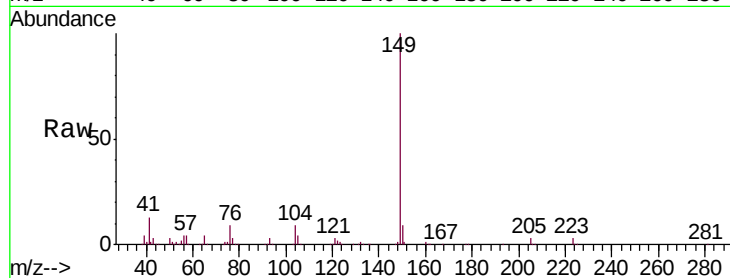




#73  
Di-n-butylphthalate  
Concen: 49.760 ng  
RT: 18.42 min Scan# 2573  
Delta R.T. -0.02 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

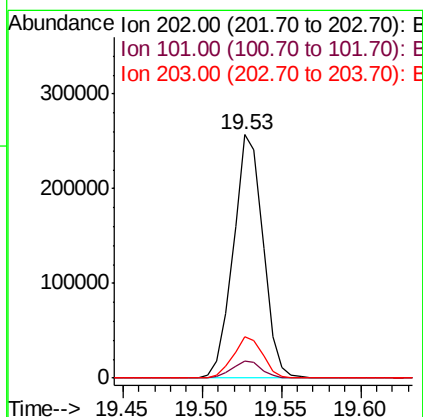
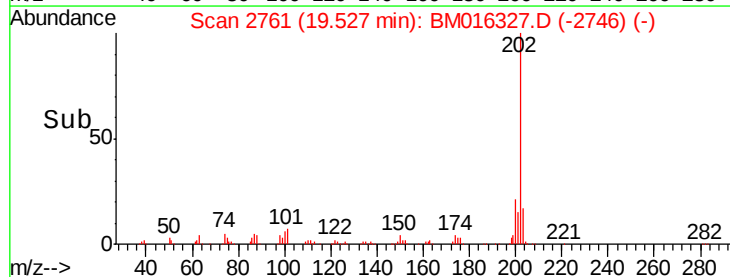
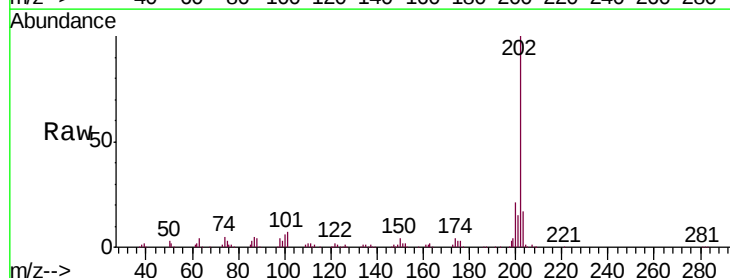
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

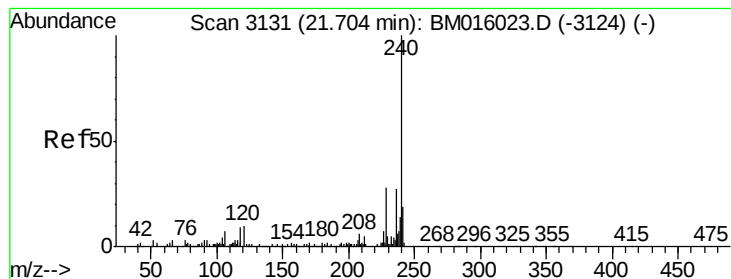
Tgt Ion:149 Resp: 365038  
Ion Ratio Lower Upper  
149 100  
150 8.8 7.5 11.3  
104 8.7 3.7 5.5#



#74  
Fluoranthene  
Concen: 51.092 ng  
RT: 19.53 min Scan# 2761  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

Tgt Ion:202 Resp: 333233  
Ion Ratio Lower Upper  
202 100  
101 6.8 0.0 28.7  
203 17.1 0.0 37.2





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.62 min Scan# 3117

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

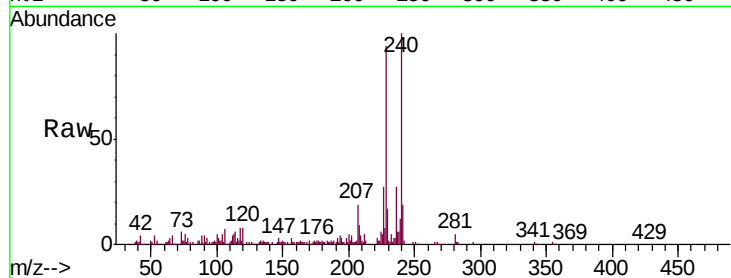
Tgt Ion:240 Resp: 132143

Ion Ratio Lower Upper

240 100

120 8.2 8.2 12.2

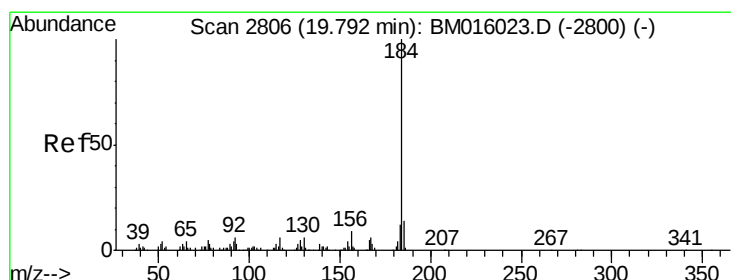
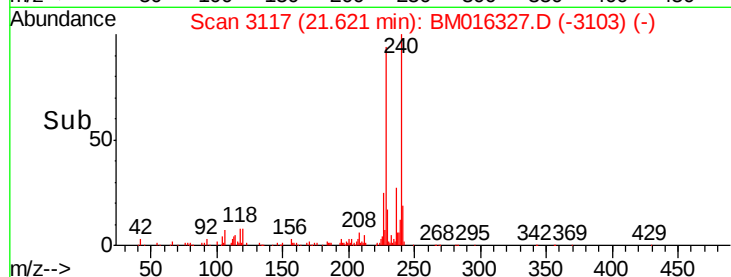
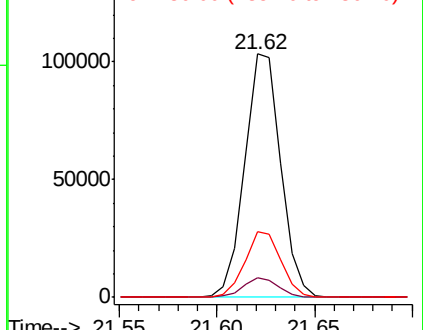
236 26.8 20.0 30.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 14.428 ng

RT: 19.72 min Scan# 2793

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

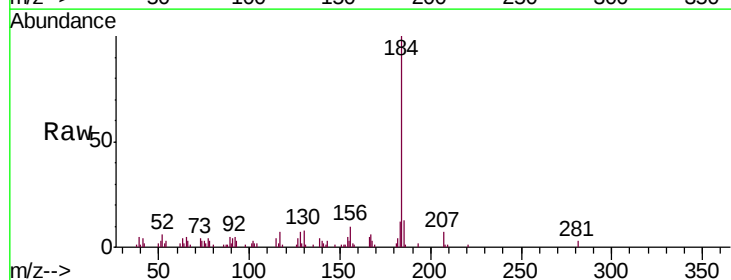
Tgt Ion:184 Resp: 53277

Ion Ratio Lower Upper

184 100

185 13.3 11.3 16.9

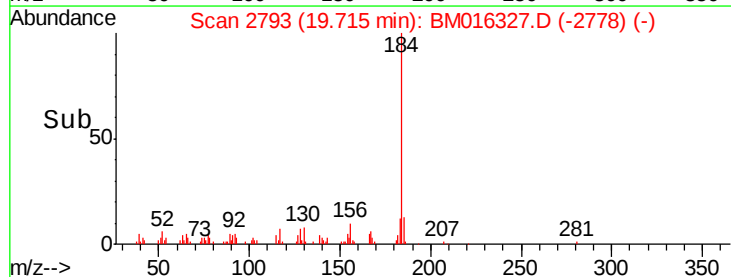
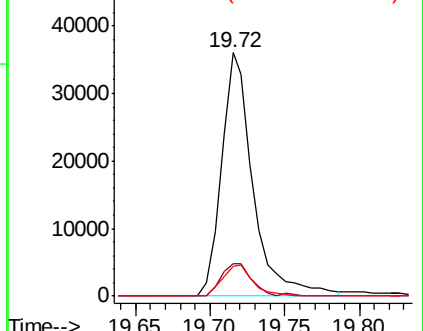
183 12.2 8.9 13.3

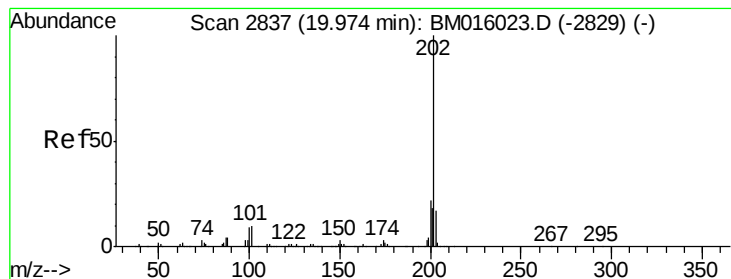


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 43.221 ng

RT: 19.89 min Scan# 2822

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

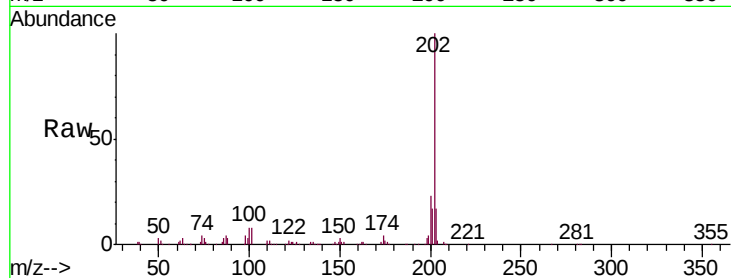
Tgt Ion:202 Resp: 342266

Ion Ratio Lower Upper

202 100

200 23.4 16.9 25.3

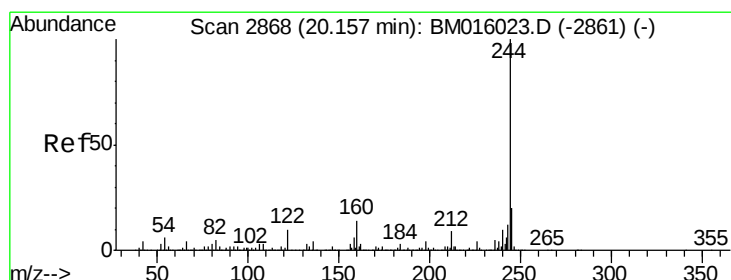
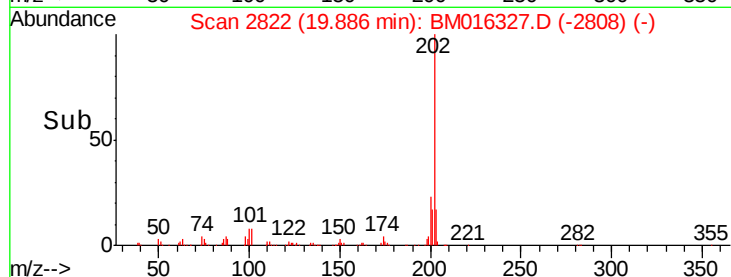
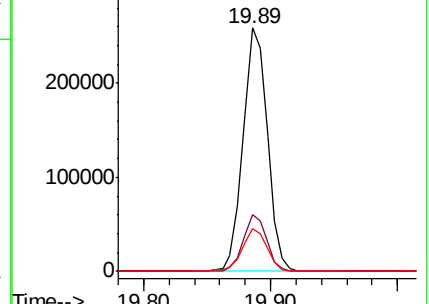
203 17.3 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 43.221 ng

RT: 20.07 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

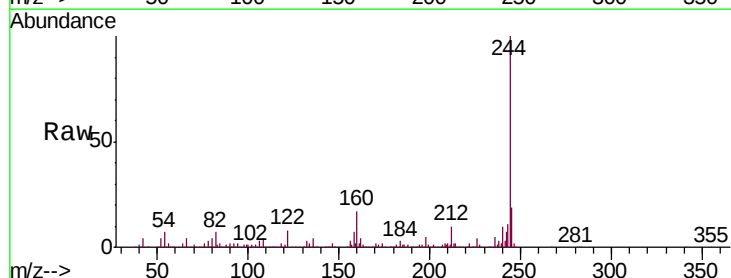
Tgt Ion:244 Resp: 668873

Ion Ratio Lower Upper

244 100

212 10.2 4.9 7.3#

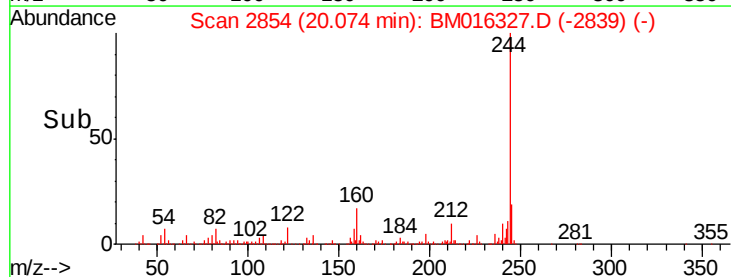
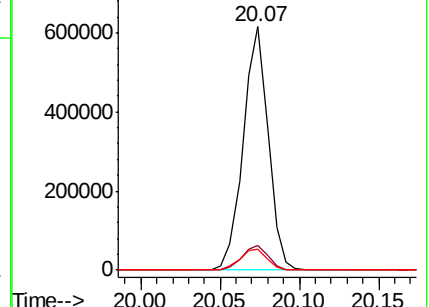
122 8.4 6.2 9.4

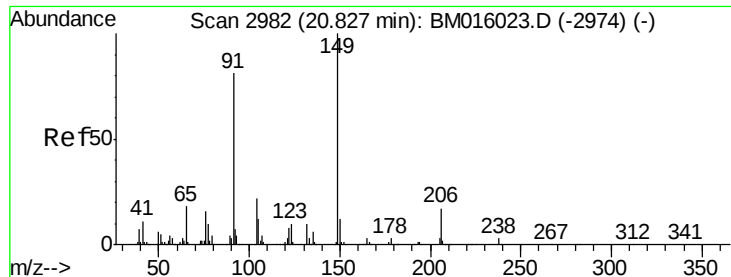


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

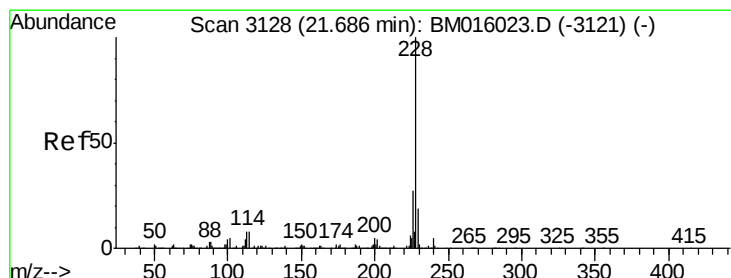
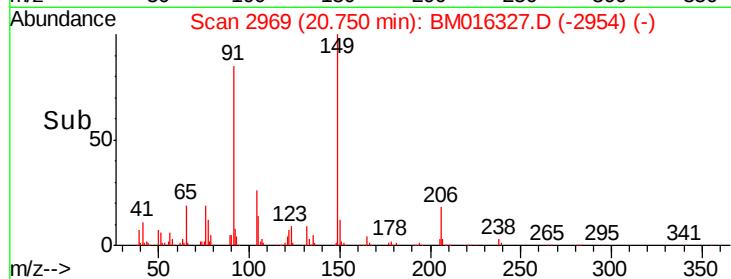
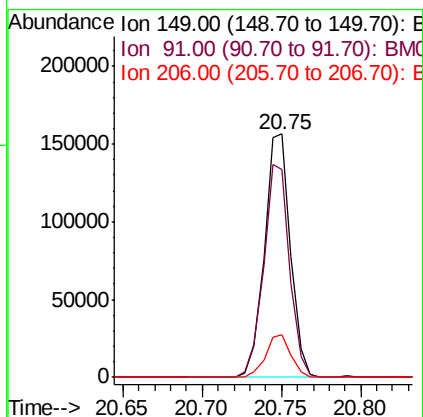
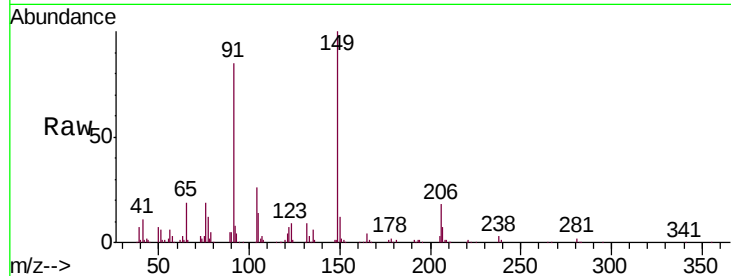




#79  
Butylbenzylphthalate  
Concen: 44.832 ng  
RT: 20.75 min Scan# 2969  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

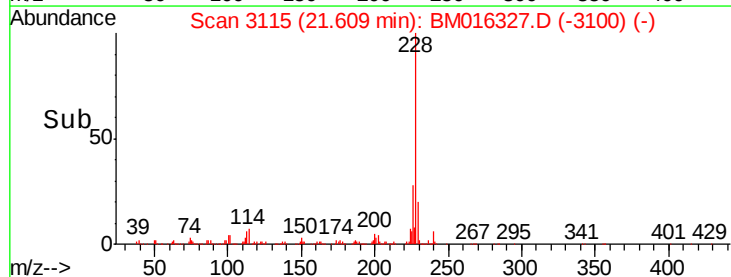
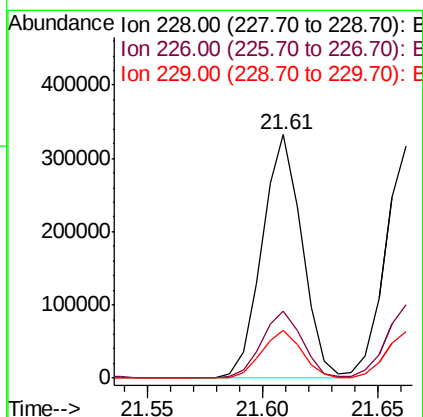
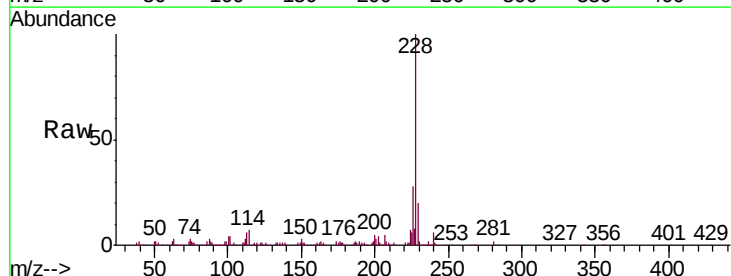
Instrument :  
BNA\_M  
ClientSampleId :  
EXCAVATION-SOILMS

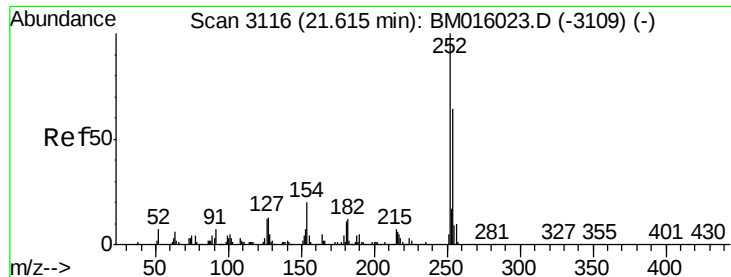
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 85.2  | 50.1  | 75.1# |
| 206     | 17.6  | 16.2  | 24.2  |



#80  
Benzo(a)anthracene  
Concen: 48.972 ng  
RT: 21.61 min Scan# 3115  
Delta R.T. -0.01 min  
Lab File: BM016327.D  
Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.6  | 21.7  | 32.5  |
| 229     | 19.8  | 16.0  | 24.0  |

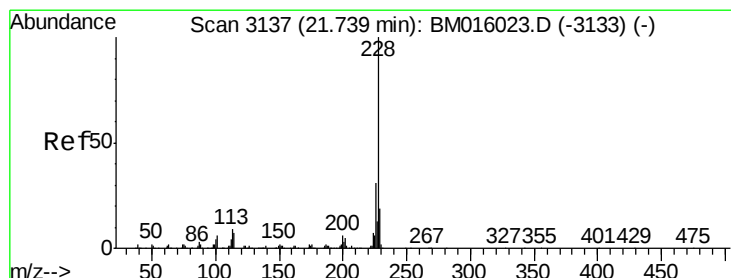
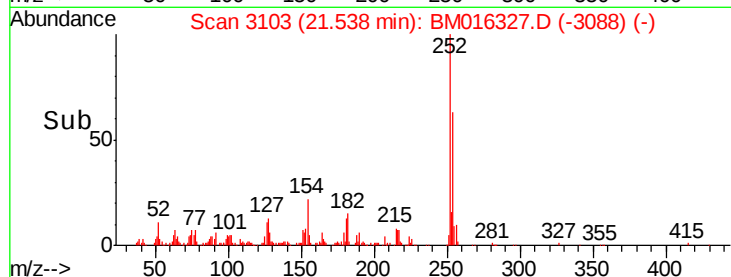
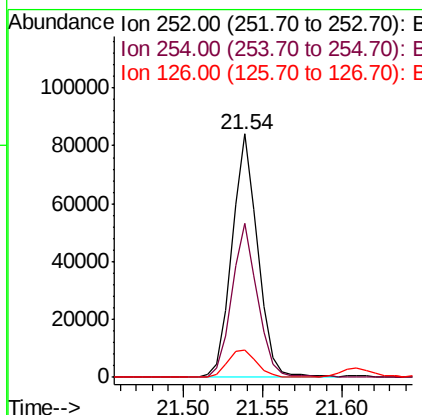
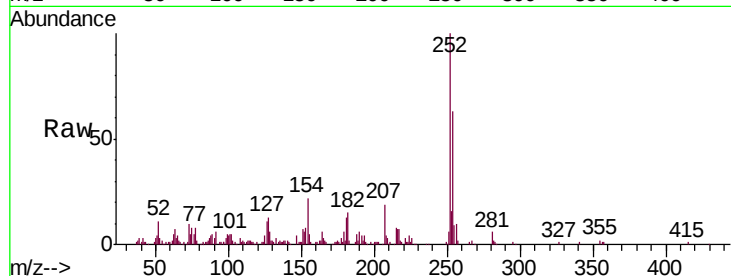




#81  
 3,3'-Dichlorobenzidine  
 Concen: 28.844 ng  
 RT: 21.54 min Scan# 3103  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

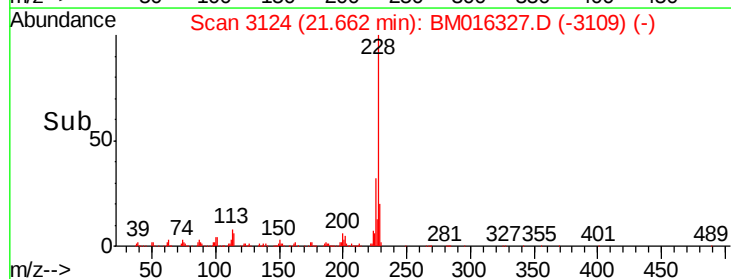
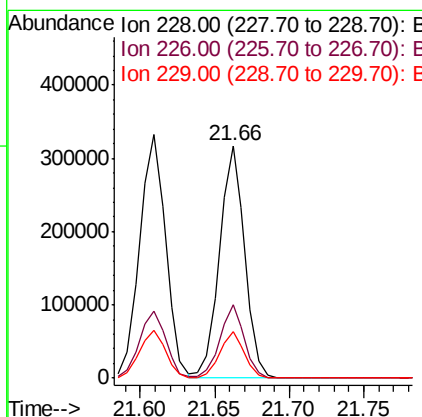
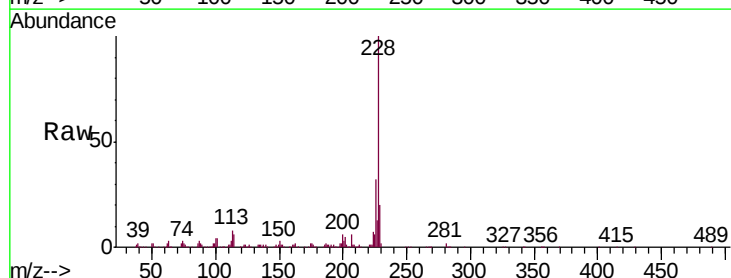
Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

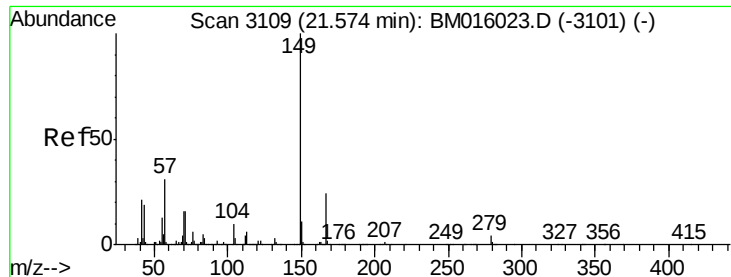
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 63.3  | 51.9  | 77.9  |
| 126     | 11.2  | 9.8   | 14.8  |



#82  
 Chrysene  
 Concen: 48.238 ng  
 RT: 21.66 min Scan# 3124  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.8  | 24.1  | 36.1  |
| 229     | 19.8  | 15.5  | 23.3  |

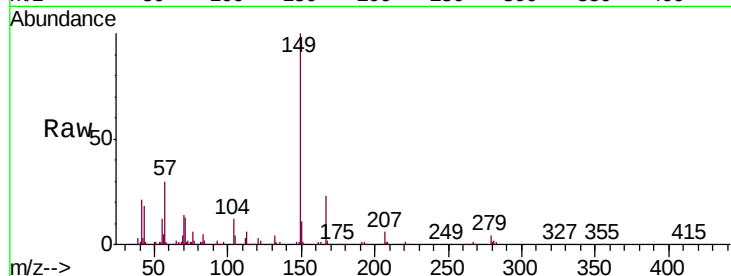




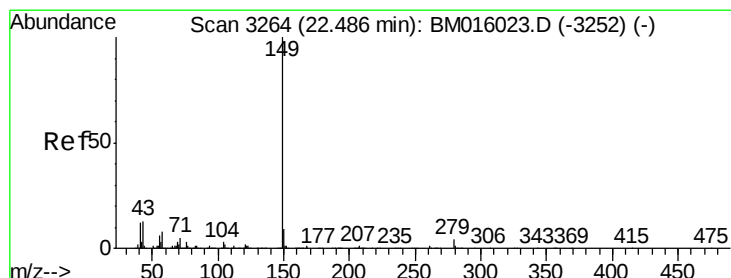
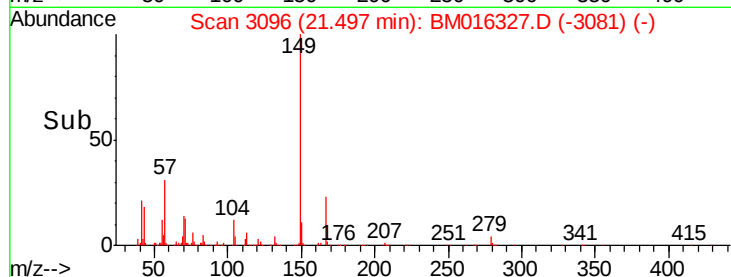
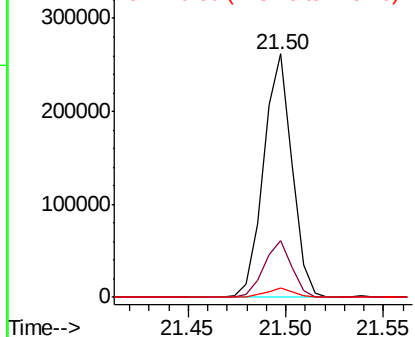
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 45.020 ng  
 RT: 21.50 min Scan# 3096  
 Delta R.T. -0.01 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 23.4  | 22.4  | 33.6  |
| 279     | 3.9   | 3.4   | 5.0   |

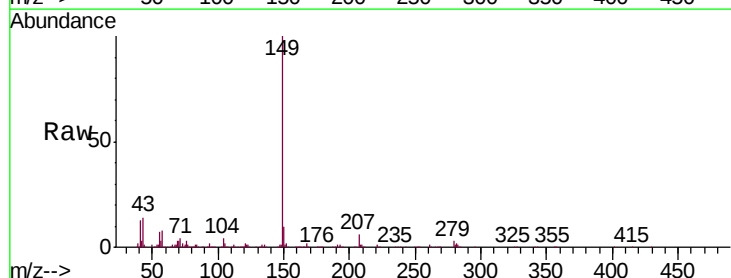


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

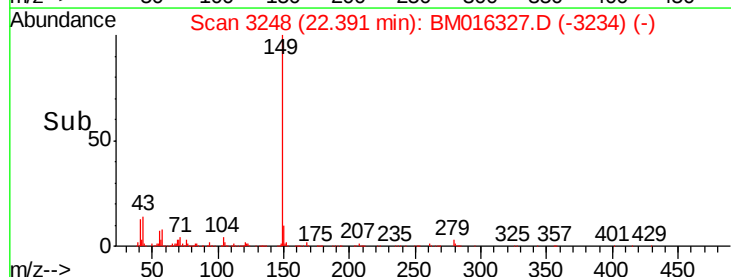
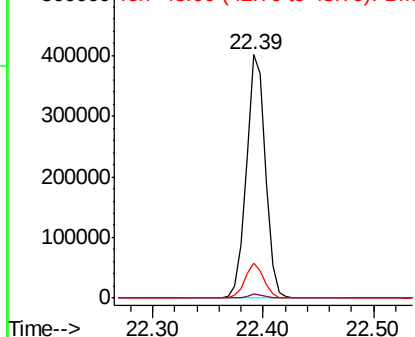


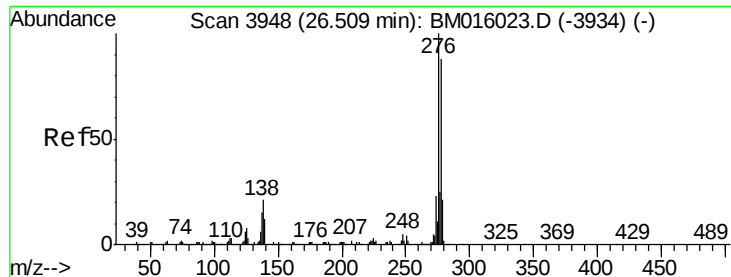
#84  
 Di-n-octyl phthalate  
 Concen: 49.264 ng  
 RT: 22.39 min Scan# 3248  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.5   | 1.2   | 1.8   |
| 43      | 13.8  | 7.3   | 10.9# |



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

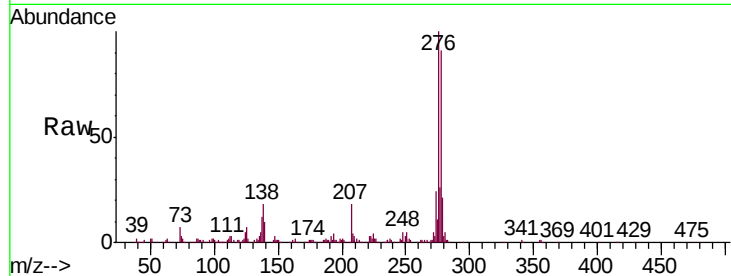




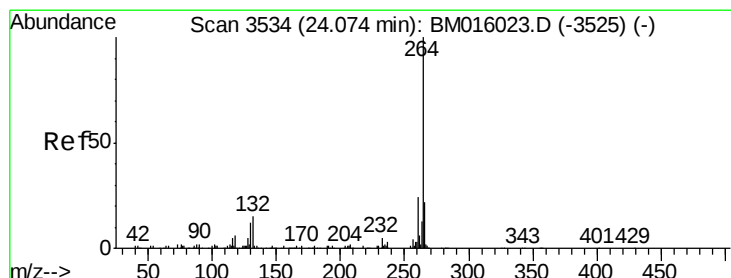
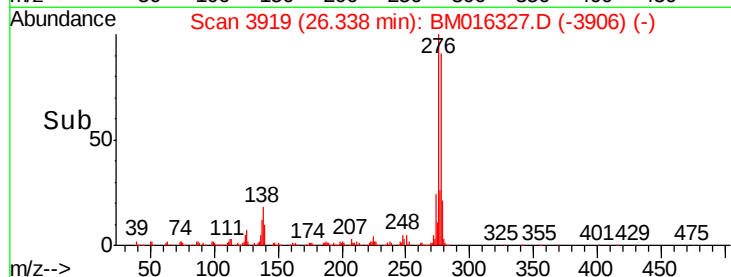
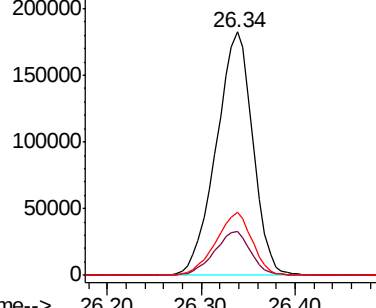
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 53.129 ng  
 RT: 26.34 min Scan# 3919  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.9  | 12.0  | 18.0  |
| 277     | 25.7  | 20.0  | 30.0  |

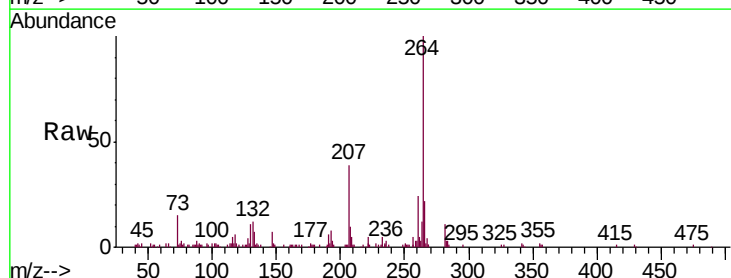


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

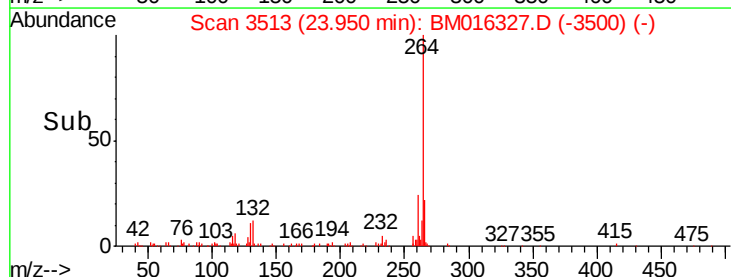
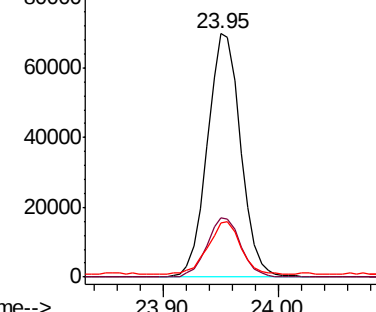


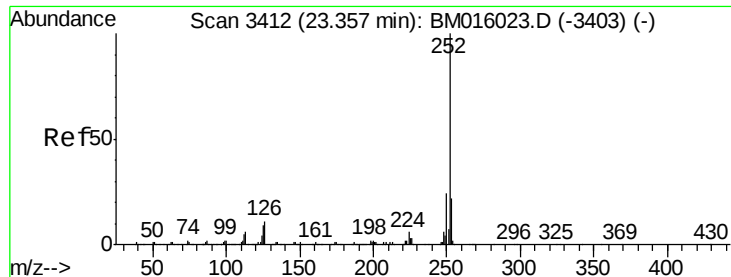
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 23.95 min Scan# 3513  
 Delta R.T. -0.02 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 18.6  | 27.8  |
| 265     | 22.2  | 17.3  | 25.9  |



Abundance Ion 264.00 (263.70 to 264.70): E  
 Ion 260.00 (259.70 to 260.70): E  
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 51.318 ng

RT: 23.25 min Scan# 3394

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

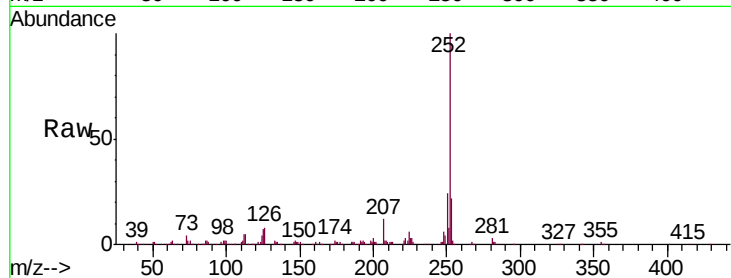
Instrument :

BNA\_M

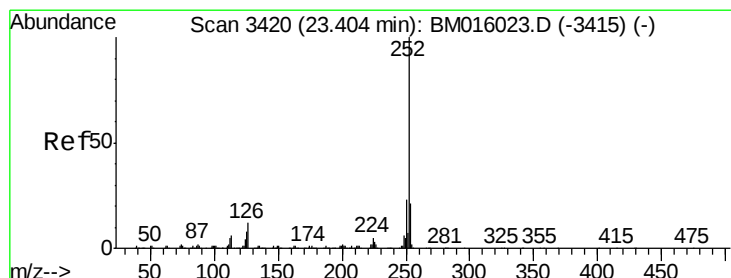
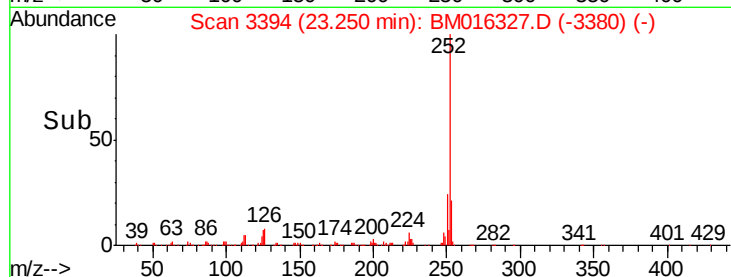
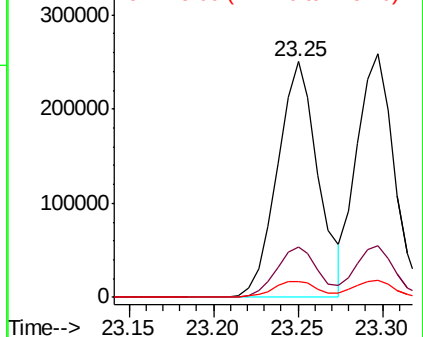
ClientSampleId :

EXCAVATION-SOILMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 421452 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.5  | 18.0  | 27.0   |
| 125       | 6.5   | 9.9   | 14.9#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 47.594 ng

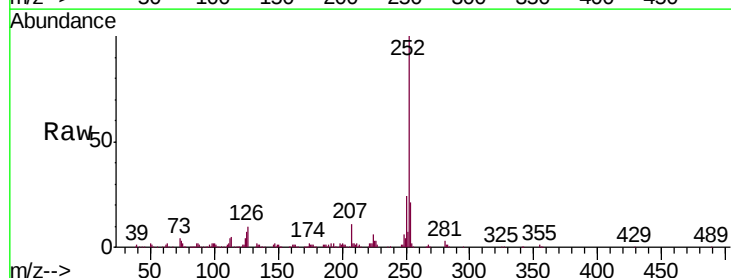
RT: 23.30 min Scan# 3402

Delta R.T. -0.02 min

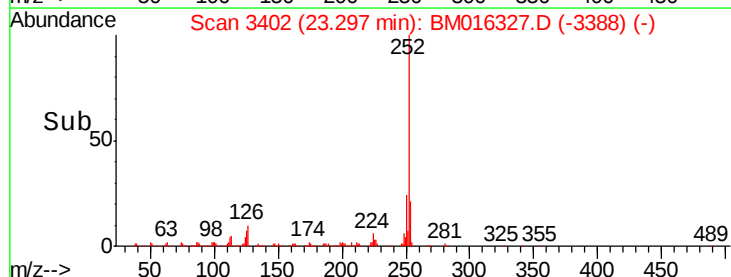
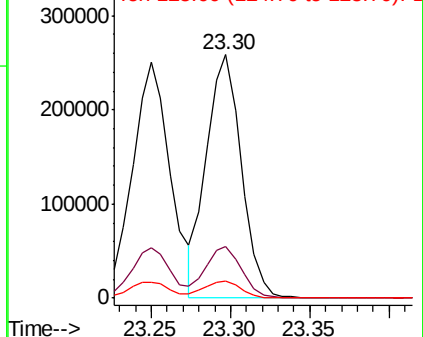
Lab File: BM016327.D

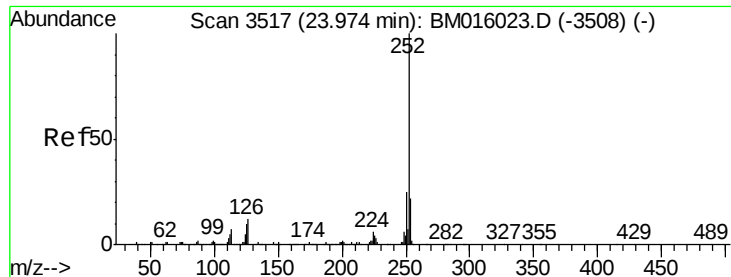
Acq: 13 Aug 2018 16:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 396122 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.0  | 17.2  | 25.8   |
| 125       | 6.8   | 8.1   | 12.1#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 50.502 ng

RT: 23.86 min Scan# 3497

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

Instrument :

BNA\_M

ClientSampleId :

EXCAVATION-SOILMS

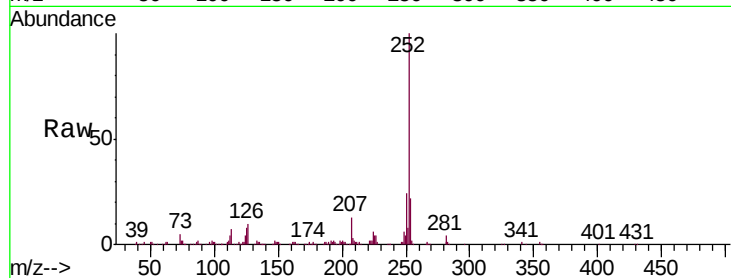
Tgt Ion:252 Resp: 398710

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

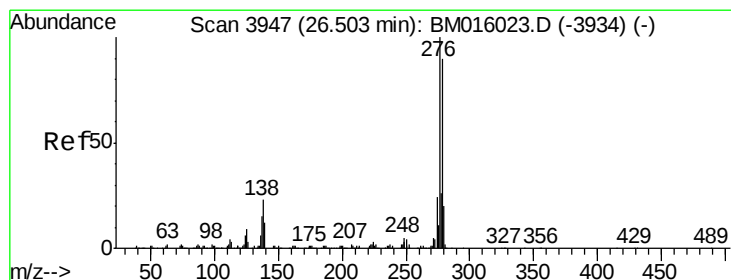
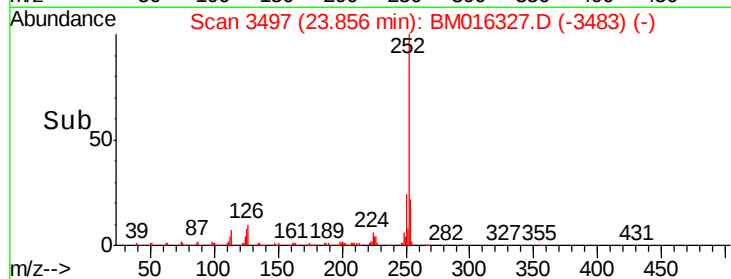
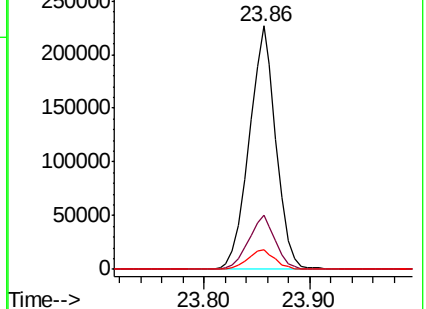
125 7.9 7.4 11.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 51.531 ng

RT: 26.34 min Scan# 3919

Delta R.T. -0.02 min

Lab File: BM016327.D

Acq: 13 Aug 2018 16:10

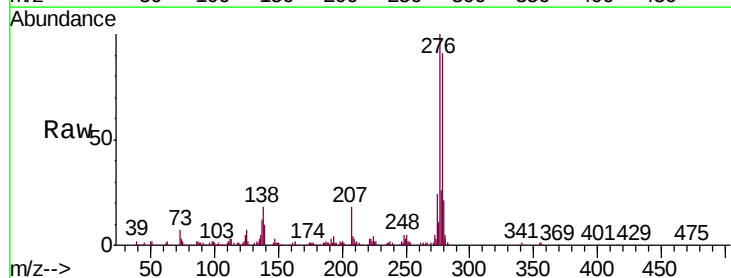
Tgt Ion:278 Resp: 421508

Ion Ratio Lower Upper

278 100

139 10.5 13.4 20.0#

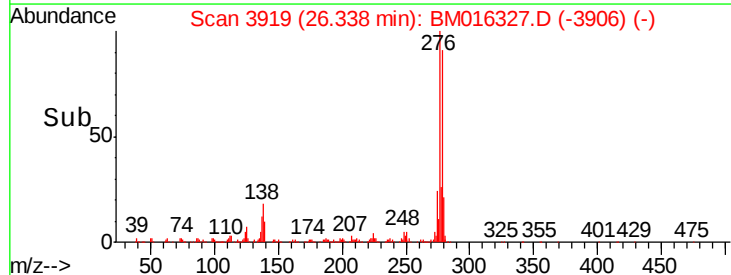
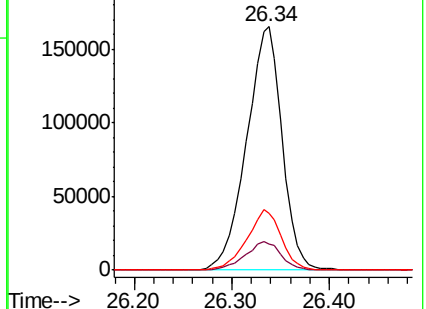
279 23.1 19.0 28.4

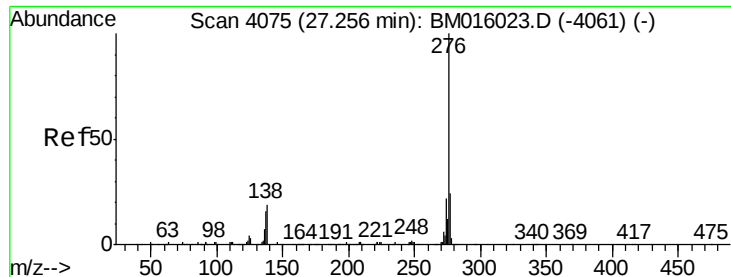


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91  
 Benzo(g,h,i)perylene  
 Concen: 49.879 ng  
 RT: 27.07 min Scan# 4043  
 Delta R.T. -0.03 min  
 Lab File: BM016327.D  
 Acq: 13 Aug 2018 16:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EXCAVATION-SOILMS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 22.6  | 18.5  | 27.7  |
| 138     | 15.9  | 19.0  | 28.6  |

