

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071918\  
 Data File : BG035776.D  
 Acq On : 20 Jul 2018 9:07  
 Operator : JU/SJ  
 Sample : J4057-12  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SOIL-3

Quant Time: Jul 20 11:47:44 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 18 17:45:13 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 46904    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.83 | 136  | 161174   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.65 | 164  | 106512   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.40 | 188  | 307471   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.66 | 240  | 346204   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 24.86 | 264  | 329169   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 397301   | 140.63 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 509253   | 120.82 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.19  | 82   | 400041   | 103.69 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.14 | 330  | 251110   | 178.87 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.27 | 172  | 879040   | 110.57 | ng    | -0.01    |
| 78) Terphenyl-d14           | 20.00 | 244  | 1698537  | 108.15 | ng    | -0.01    |

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.53  | 88   | 199      | 0.138 | ng    | # 1    |
| 3) Pyridine                    | 3.84  | 79   | 113      | 0.030 | ng    | # 6    |
| 4) n-Nitrosodimethylamine      | 3.83  | 42   | 266      | 0.165 | ng    | # 1    |
| 6) Aniline                     | 7.56  | 93   | 852      | 0.156 | ng    | # 1    |
| 8) 2-Chlorophenol              | 7.62  | 128  | 75       | 0.026 | ng    | # 61   |
| 9) Benzaldehyde                | 7.19  | 77   | 1340     | 0.518 | ng    | # 5    |
| 10) Phenol                     | 7.20  | 94   | 79       | 0.019 | ng    | # 1    |
| 11) bis(2-Chloroethyl)ether    | 7.56  | 93   | 852      | 0.255 | ng    | # 1    |
| 12) 1,3-Dichlorobenzene        | 8.02  | 146  | 56       | 0.016 | ng    | # 1    |
| 13) 1,4-Dichlorobenzene        | 8.07  | 146  | 54       | 0.015 | ng    | # 23   |
| 14) 1,2-Dichlorobenzene        | 8.35  | 146  | 74       | 0.022 | ng    | # 1    |
| 15) Benzyl Alcohol             | 8.35  | 79   | 7124     | 1.861 | ng    | # 58   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.57  | 45   | 561      | 0.201 | ng    | # 75   |
| 17) 2-Methylphenol             | 8.45  | 107  | 68       | 0.023 | ng    | # 13   |
| 18) Hexachloroethane           | 8.78  | 117  | 60       | 0.045 | ng    | # 1    |
| 20) 3+4-Methylphenols          | 8.93  | 107  | 81       | 0.020 | ng    | # 24   |
| 22) Acetophenone               | 8.83  | 105  | 60       | 0.012 | ng    | # 50   |
| 24) Nitrobenzene               | 9.18  | 77   | 1103     | 0.284 | ng    | # 42   |
| 25) Isophorone                 | 9.56  | 82   | 530      | 0.074 | ng    | # 69   |
| 26) 2-Nitrophenol              | 10.00 | 139  | 62       | 0.045 | ng    | # 29   |
| 27) 2,4-Dimethylphenol         | 9.50  | 122  | 57       | 0.024 | ng    | # 1    |
| 28) bis(2-Chloroethoxy)methane | 10.22 | 93   | 72       | 0.018 | ng    | # 51   |
| 29) 2,4-Dichlorophenol         | 10.42 | 162  | 68       | 0.026 | ng    | # 23   |
| 31) Naphthalene                | 10.88 | 128  | 835      | 0.099 | ng    | # 68   |
| 33) 4-Chloroaniline            | 10.89 | 127  | 73       | 0.020 | ng    | # 46   |
| 35) Caprolactam                | 11.49 | 113  | 54       | 0.047 | ng    | # 1    |
| 37) 2-Methylnaphthalene        | 12.36 | 142  | 102      | 0.016 | ng    | # 17   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.50 | 216  | 54       | 0.013 | ng    | # 25   |
| 40) Hexachlorocyclopentadiene  | 13.04 | 237  | 72       | 0.034 | ng    | # 22   |
| 42) 2,4,6-Trichlorophenol      | 12.98 | 196  | 63       | 0.027 | ng    | # 11   |
| 43) 2,4,5-Trichlorophenol      | 12.98 | 196  | 63       | 0.024 | ng    | # 17   |
| 45) 1,1'-Biphenyl              | 13.50 | 154  | 1080     | 0.131 | ng    | # 70   |
| 47) 2-Nitroaniline             | 13.85 | 65   | 59       | 0.026 | ng    | # 9    |
| 48) Acenaphthylene             | 14.50 | 152  | 56       | 0.005 | ng    | # 59   |

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Instrument :  
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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 18 17:45:13 2018  
 Response via : Initial Calibration

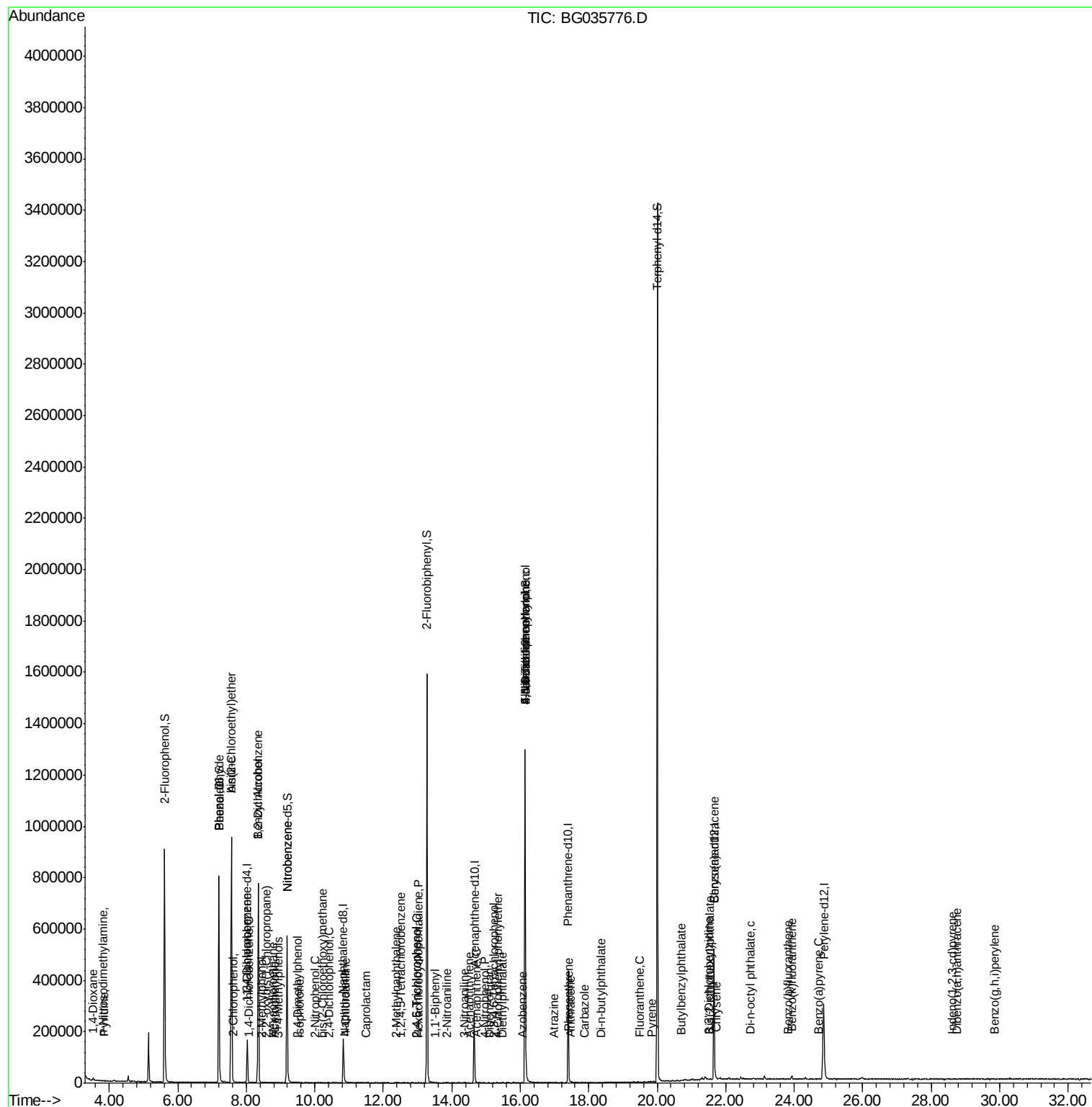
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| -----                          |       |      |          |       |       |          |
| 51) Acenaphthene               | 14.72 | 154  | 74       | 0.011 | nq    | # 28     |
| 52) 3-Nitroaniline             | 14.37 | 138  | 91       | 0.047 | nq    | # 1      |
| 54) Dibenzofuran               | 15.09 | 168  | 54       | 0.005 | nq    | # 46     |
| 55) 4-Nitrophenol              | 14.95 | 139  | 58       | 0.042 | nq    | # 1      |
| 57) Fluorene                   | 16.13 | 166  | 8379     | 0.938 | nq    | # 84     |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.24 | 232  | 62       | 0.025 | nq    | # 40     |
| 59) Diethylphthalate           | 15.47 | 149  | 59       | 0.006 | nq    | # 58     |
| 60) 4-Chlorophenyl-phenylether | 15.33 | 204  | 59       | 0.011 | nq    | # 30     |
| 61) 4-Nitroaniline             | 16.15 | 138  | 78       | 0.038 | nq    | # 1      |
| 62) Azobenzene                 | 16.05 | 77   | 53       | 0.006 | nq    | # 48     |
| 64) 4,6-Dinitro-2-methylphenol | 16.14 | 198  | 710      | 0.415 | nq    | # 1      |
| 65) n-Nitrosodiphenylamine     | 16.14 | 169  | 9712     | 1.110 | nq    | # 48     |
| 68) Atrazine                   | 16.99 | 200  | 117      | 0.032 | nq    | # 35     |
| 70) Phenanthrene               | 17.43 | 178  | 459      | 0.030 | nq    | # 60     |
| 71) Anthracene                 | 17.48 | 178  | 63       | 0.004 | nq    | # 59     |
| 72) Carbazole                  | 17.87 | 167  | 72       | 0.005 | nq    | # 59     |
| 73) Di-n-butylphthalate        | 18.35 | 149  | 1022     | 0.060 | nq    | # 78     |
| 74) Fluoranthene               | 19.47 | 202  | 869      | 0.042 | nq    | # 65     |
| 77) Pyrene                     | 19.82 | 202  | 755      | 0.034 | nq    | # 57     |
| 79) Butylbenzylphthalate       | 20.69 | 149  | 98       | 0.013 | nq    | # 70     |
| 80) Benzo(a)anthracene         | 21.66 | 228  | 1986     | 0.092 | nq    | # 91     |
| 81) 3,3'-Dichlorobenzidine     | 21.52 | 252  | 56       | 0.007 | nq    | # 26     |
| 82) Chrysene                   | 21.71 | 228  | 566      | 0.028 | nq    | # 49     |
| 83) Bis(2-ethylhexyl)phthalate | 21.53 | 149  | 1068     | 0.100 | nq    | # 79     |
| 84) Di-n-octyl phthalate       | 22.73 | 149  | 419      | 0.024 | nq    | # 1      |
| 85) Indeno(1,2,3-cd)pyrene     | 28.60 | 276  | 54       | 0.002 | nq    | # 53     |
| 87) Benzo(b)fluoranthene       | 23.83 | 252  | 62       | 0.003 | nq    | # 59     |
| 88) Benzo(k)fluoranthene       | 23.92 | 252  | 929      | 0.047 | nq    | # 60     |
| 89) Benzo(a)pyrene             | 24.71 | 252  | 282      | 0.015 | nq    | # 37     |
| 90) Dibenzo(a,h)anthracene     | 28.75 | 278  | 54       | 0.003 | nq    | # 58     |
| 91) Benzo(a,h,i)perylene       | 29.83 | 276  | 72       | 0.004 | nq    | # 1      |
| -----                          |       |      |          |       |       |          |

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

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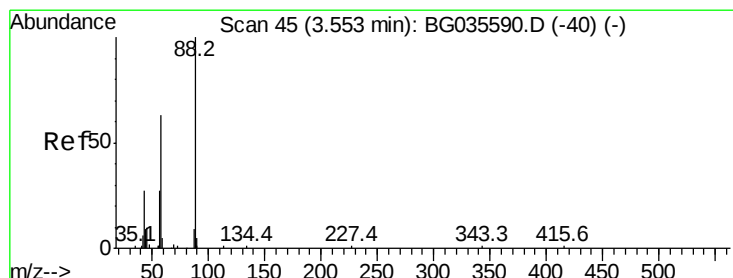
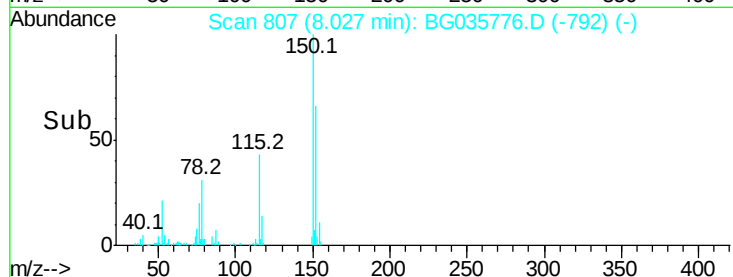
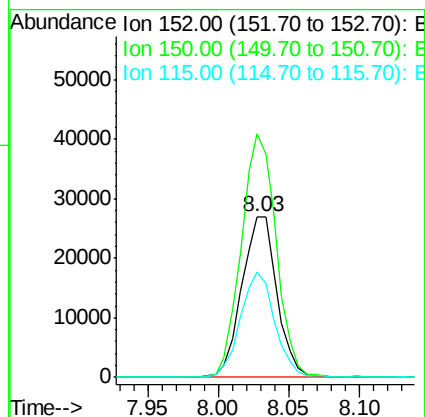
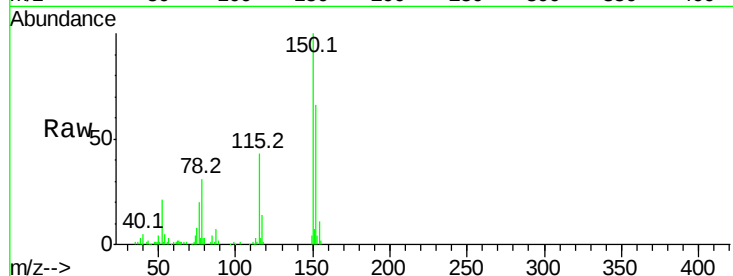


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

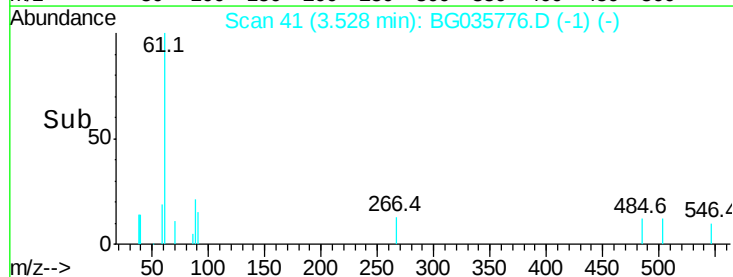
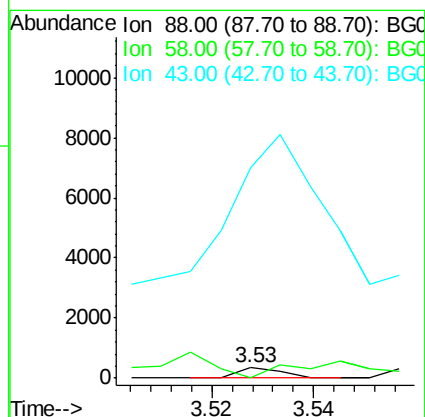
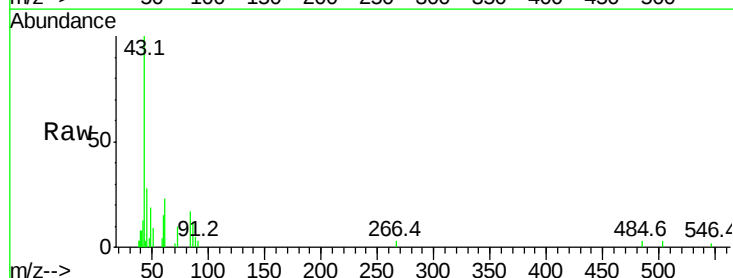
Tot Ion:152 Resp: 46904  
Ion Ratio Lower Upper  
152 100  
150 151.4 126.6 189.8  
115 65.3 53.0 79.4



#2

1,4-Dioxane  
Concen: 0.138 ng  
RT: 3.53 min Scan# 41  
Delta R.T. -0.01 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion: 88 Resp: 199  
Ion Ratio Lower Upper  
88 100  
58 439.7 79.6 119.4#  
43 4240.2 27.4 41.0#





#3

Pvridine

Concen: 0.030 ng

RT: 3.84 min Scan# 95

Delta R.T. -0.09 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

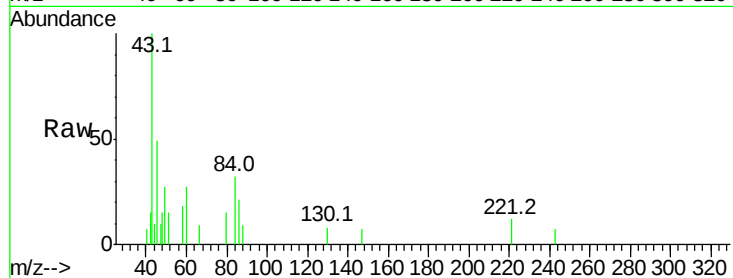
Tot Ion: 79 Resp: 113

Ion Ratio Lower Upper

79 100

52 0.0 69.9 104.9#

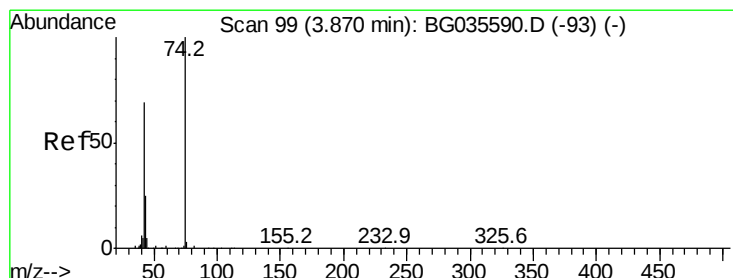
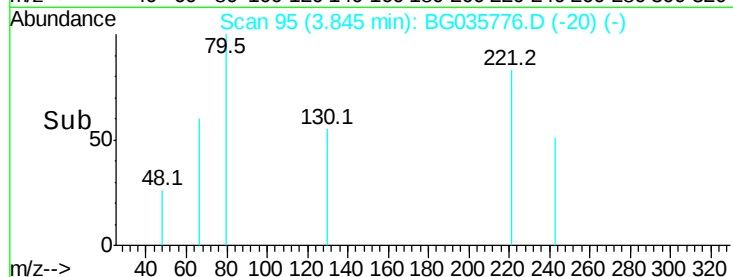
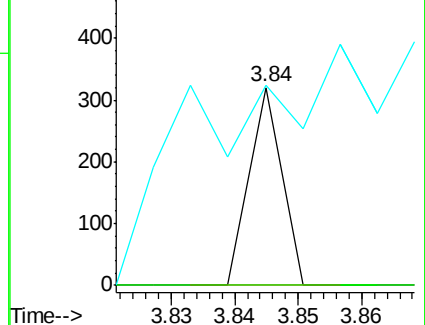
51 101.6 34.0 51.0#



Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 52.00 (51.70 to 52.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#4

n-Nitrosodimethylamine

Concen: 0.165 ng

RT: 3.83 min Scan# 92

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

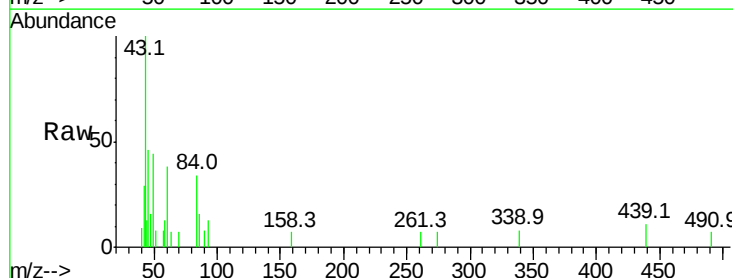
Tgt Ion: 42 Resp: 266

Ion Ratio Lower Upper

42 100

74 0.0 102.5 153.7#

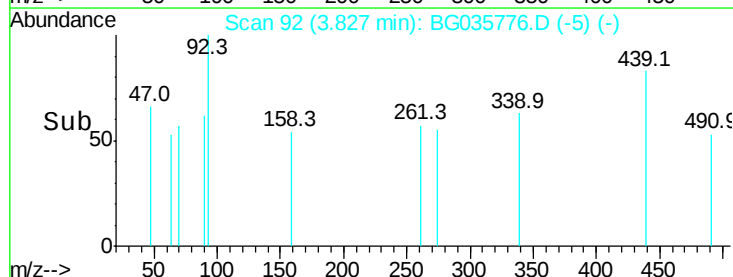
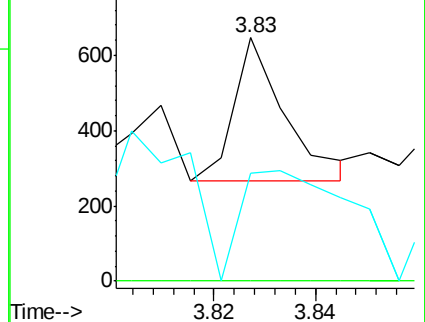
44 44.2 18.9 28.3#



Abundance Ion 42.00 (41.70 to 42.70): BGC

Ion 74.00 (73.70 to 74.70): BGC

Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 140.630 ng

RT: 5.61 min Scan# 396

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

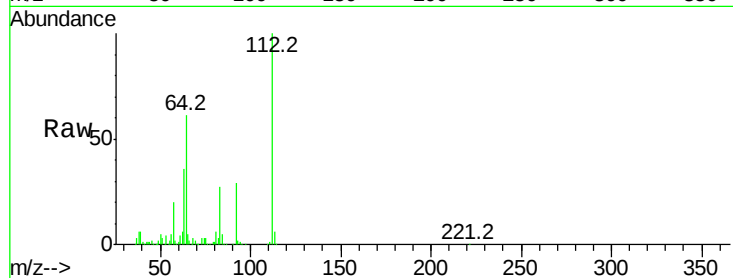
Tot Ion:112 Resp: 397301

Ion Ratio Lower Upper

112 100

64 61.1 56.3 84.5

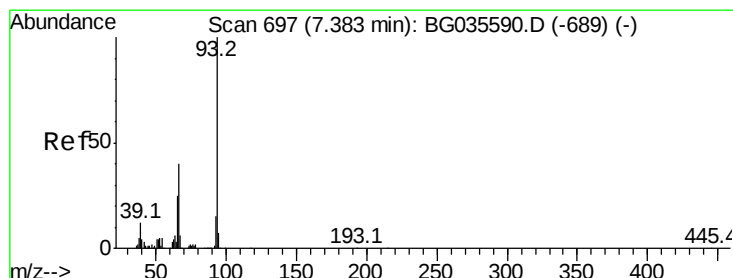
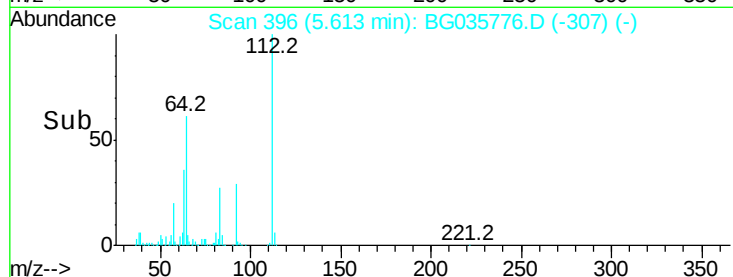
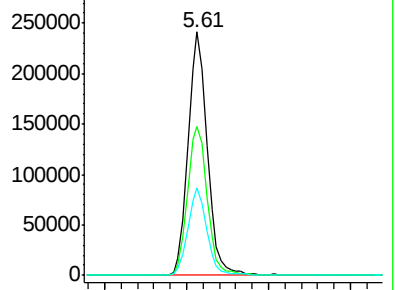
63 35.9 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 0.156 ng

RT: 7.56 min Scan# 728

Delta R.T. 0.20 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

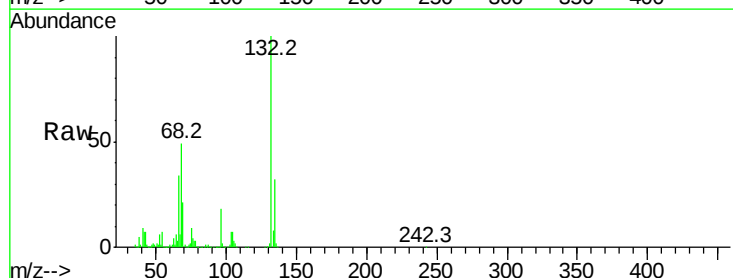
Tgt Ion: 93 Resp: 852

Ion Ratio Lower Upper

93 100

66 12441.0 33.7 50.5#

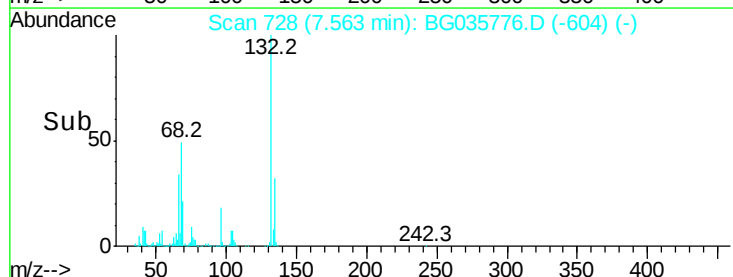
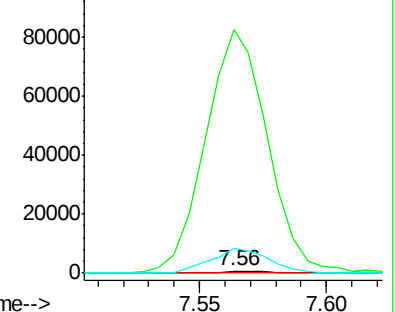
65 1238.6 16.1 24.1#

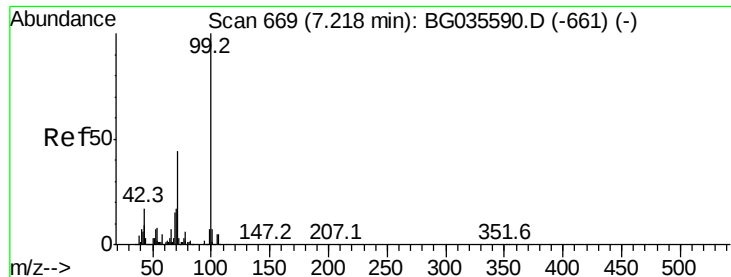


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 120.817 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

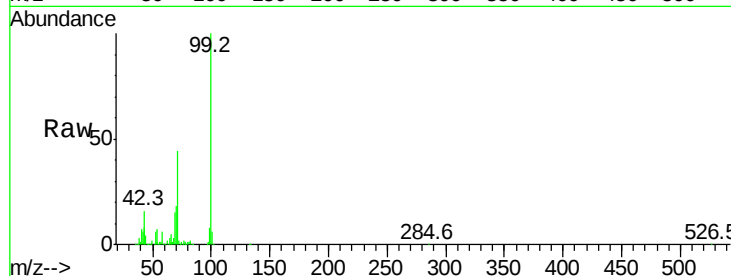
Tot Ion: 99 Resp: 509253

Ion Ratio Lower Upper

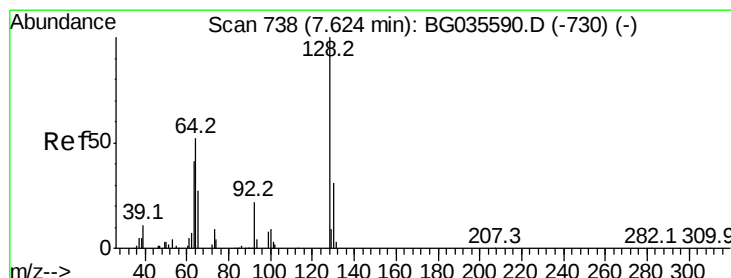
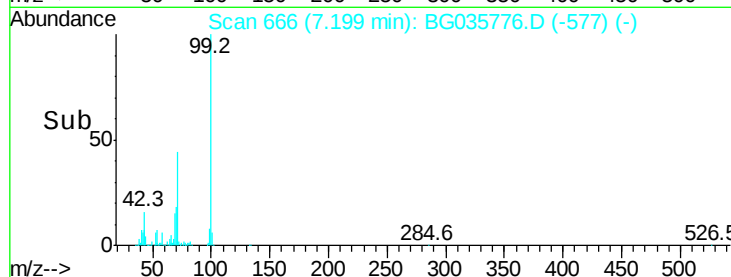
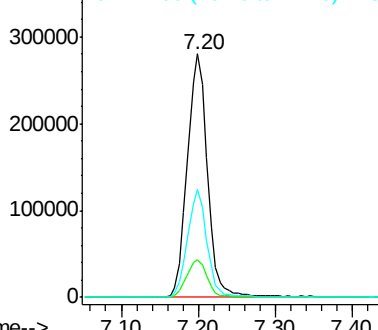
99 100

42 15.6 14.1 21.1

71 44.5 26.1 39.1#



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#8

2-Chlorophenol

Concen: 0.026 ng

RT: 7.62 min Scan# 738

Delta R.T. 0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

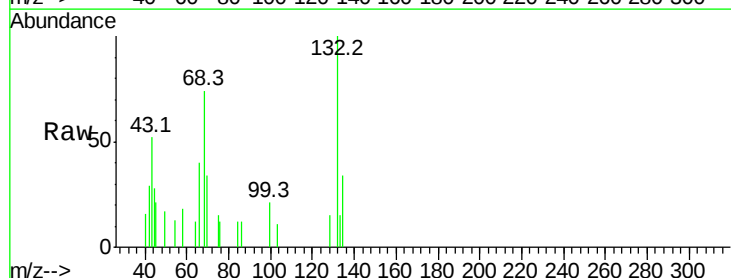
Tgt Ion: 128 Resp: 75

Ion Ratio Lower Upper

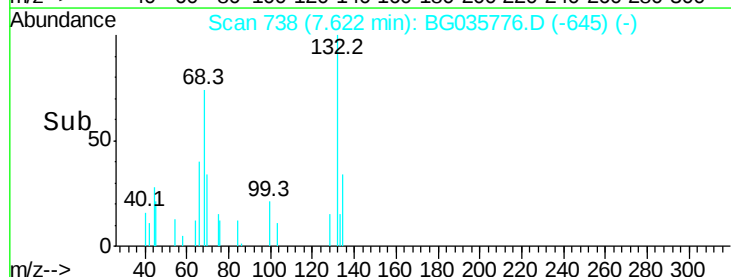
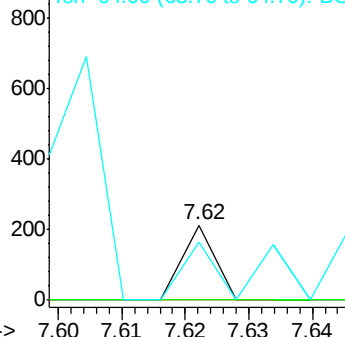
128 100

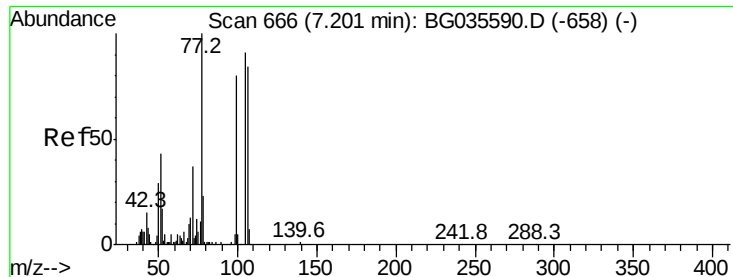
130 0.0 14.0 54.0#

64 77.9 37.7 77.7#



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





#9

Benzaldehyd

Concen: 0.518 ng

RT: 7.19 min Scan# 665

Delta R.T. 0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

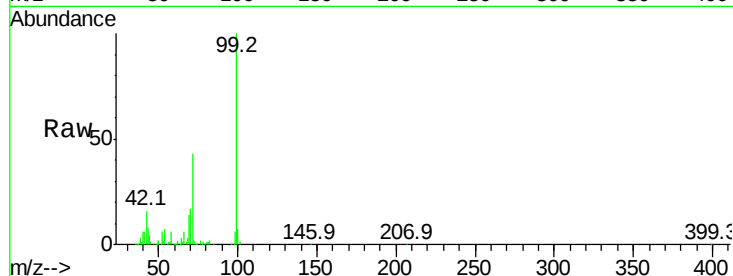
Tot Ion: 77 Resp: 1340

Ion Ratio Lower Upper

77 100

105 0.0 71.3 111.3#

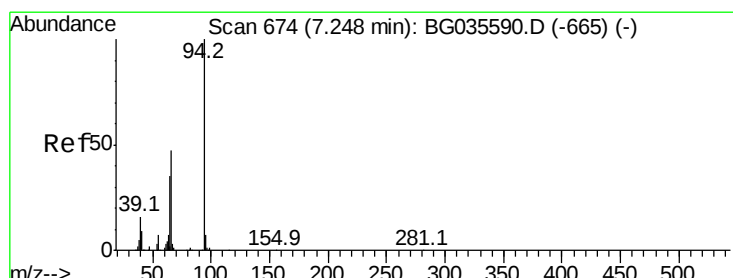
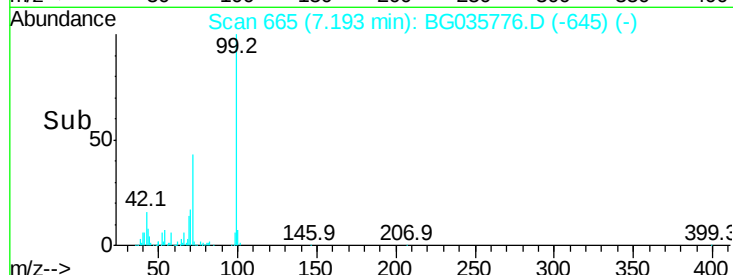
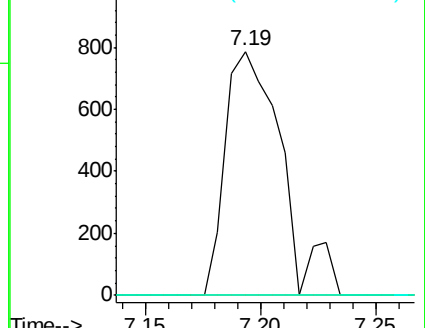
106 0.0 64.2 104.2#



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#10

Phenol

Concen: 0.019 ng

RT: 7.20 min Scan# 667

Delta R.T. -0.03 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

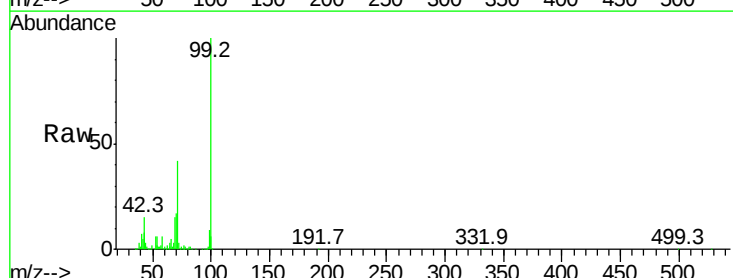
Tgt Ion: 94 Resp: 79

Ion Ratio Lower Upper

94 100

65 1076.3 11.9 51.9#

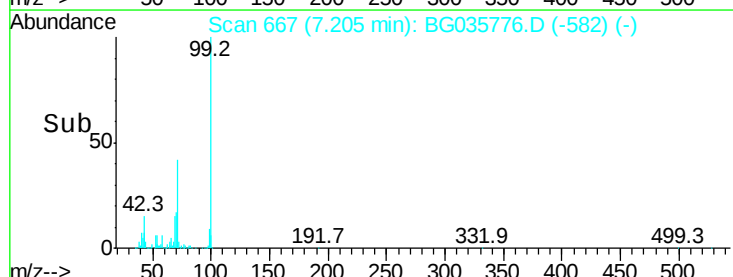
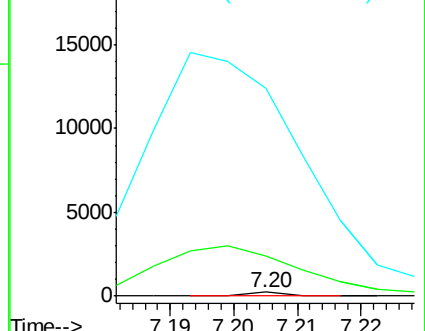
66 5524.1 22.2 62.2#

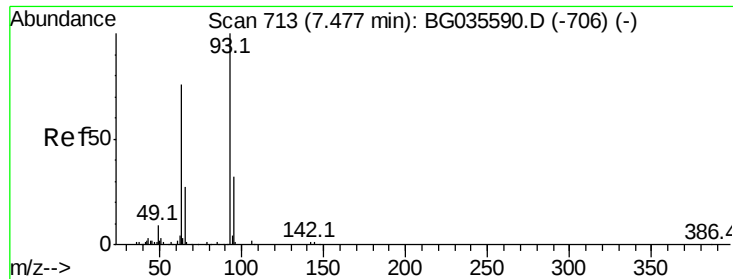


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

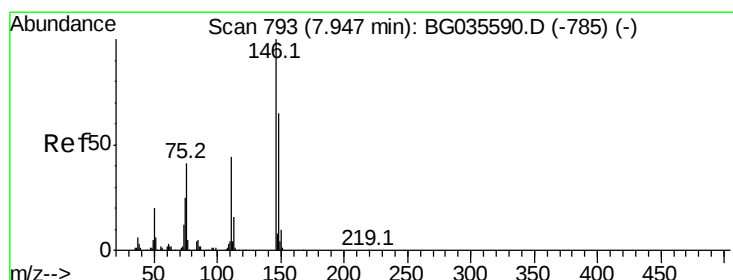
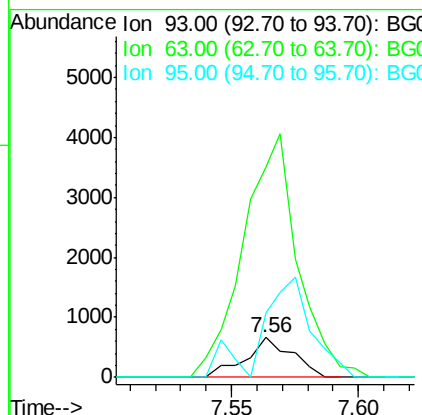
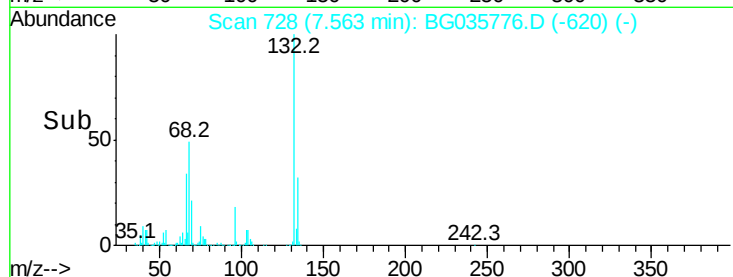
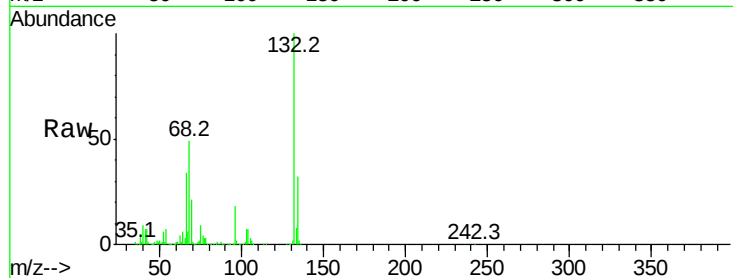




#11  
bis(2-Chloroethyl)ether  
Concen: 0.255 ng  
RT: 7.56 min Scan# 728  
Delta R.T. 0.10 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

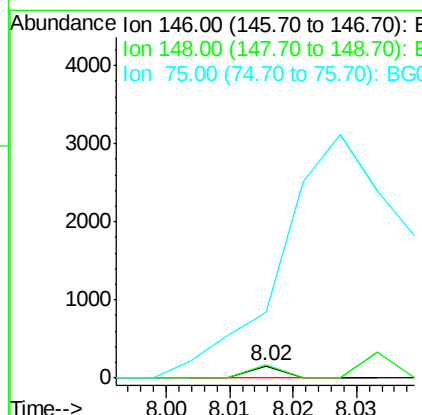
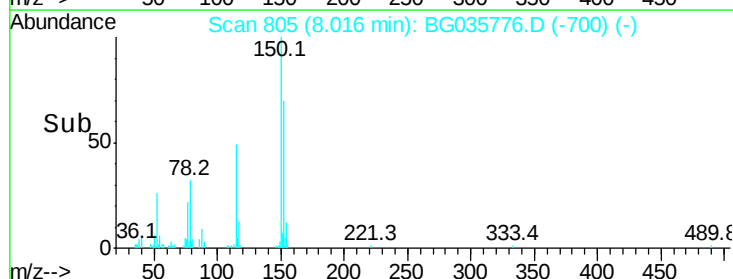
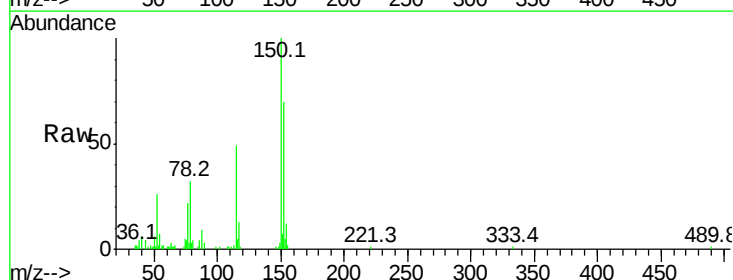
Instrument :  
BNA\_G  
ClientSampled :  
LS-SOIL-3

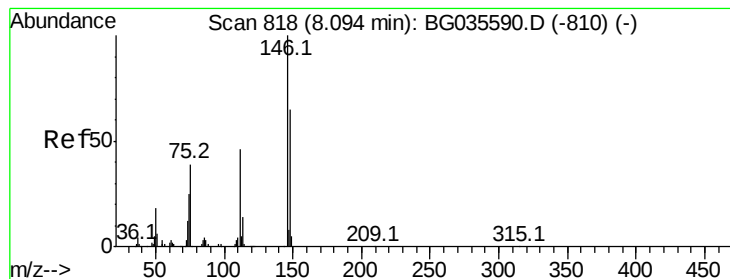
Tot Ion: 93 Resp: 852  
Ion Ratio Lower Upper  
93 100  
63 528.3 67.1 107.1#  
95 161.7 11.5 51.5#



#12  
1,3-Dichlorobenzene  
Concen: 0.016 ng  
RT: 8.02 min Scan# 805  
Delta R.T. 0.09 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion: 146 Resp: 56  
Ion Ratio Lower Upper  
146 100  
148 104.4 51.4 77.2#  
75 525.8 26.6 39.8#





#13

1,4-Dichlorobenzene

Concen: 0.015 ng

RT: 8.07 min Scan# 815

Delta R.T. -0.00 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

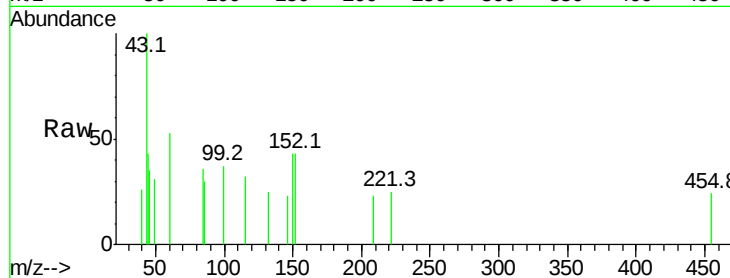
Tot Ion:146 Resp: 54

Ion Ratio Lower Upper

146 100

148 0.0 53.7 80.5#

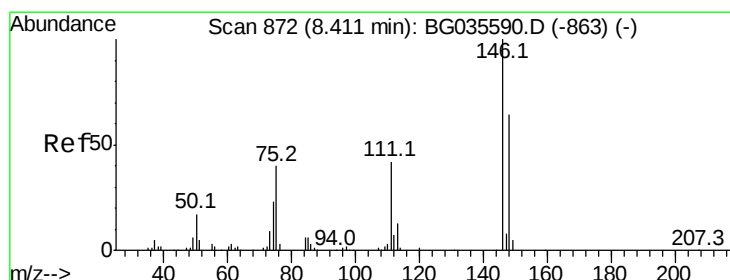
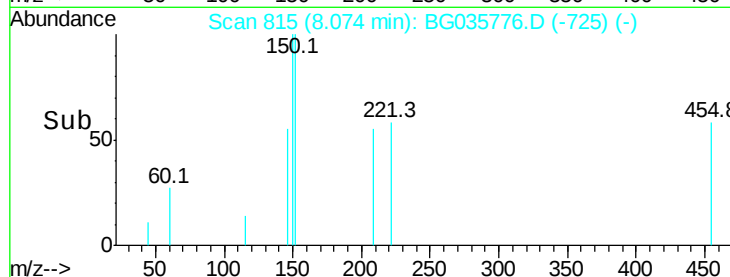
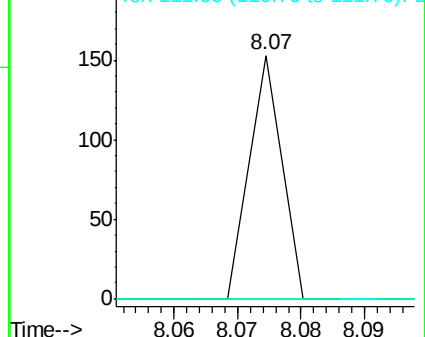
111 0.0 35.2 52.8#



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: 0.022 ng

RT: 8.35 min Scan# 862

Delta R.T. -0.04 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

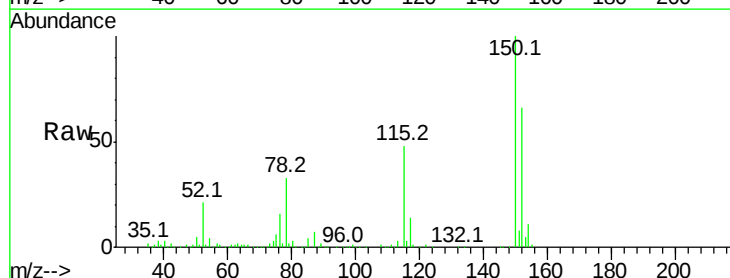
Tgt Ion:146 Resp: 74

Ion Ratio Lower Upper

146 100

148 327.8 49.3 73.9#

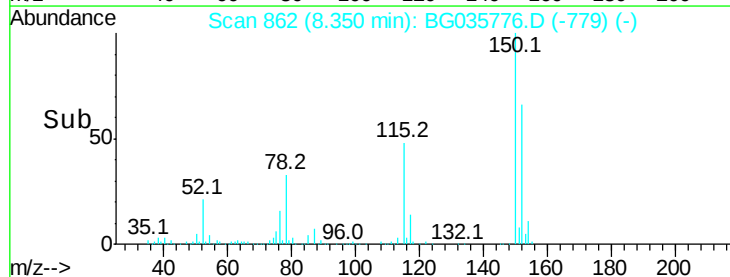
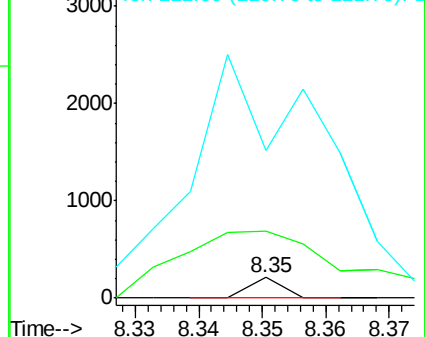
111 724.4 34.3 51.5#

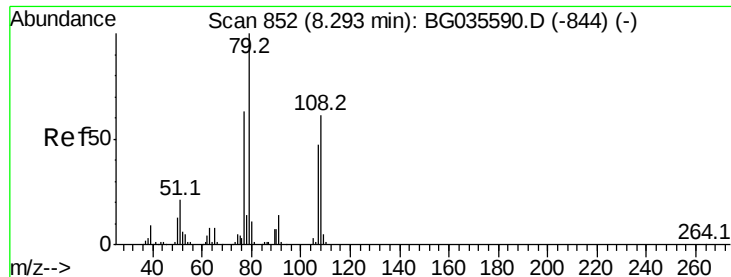


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

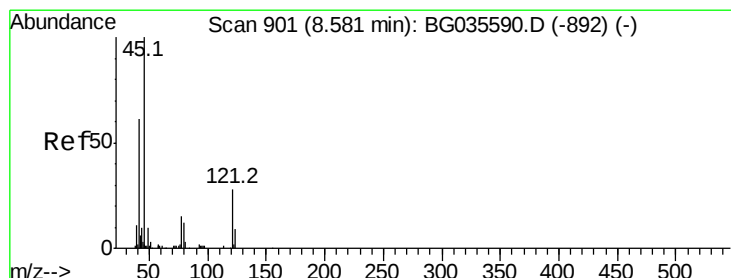
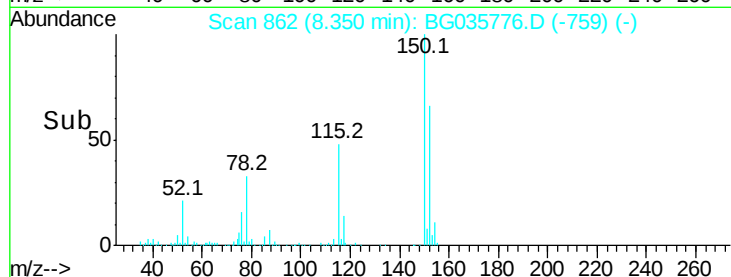
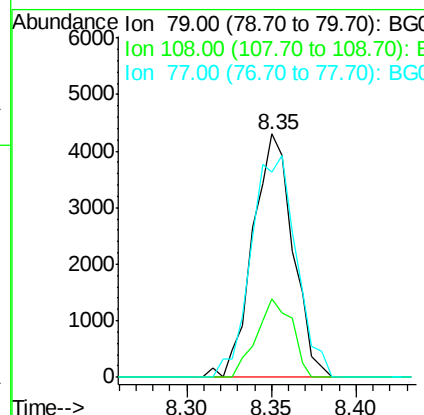
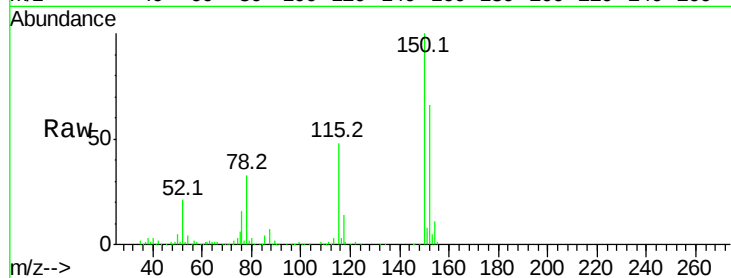




#15  
Benzyl Alcohol  
Concen: 1.861 ng  
RT: 8.35 min Scan# 862  
Delta R.T. 0.08 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

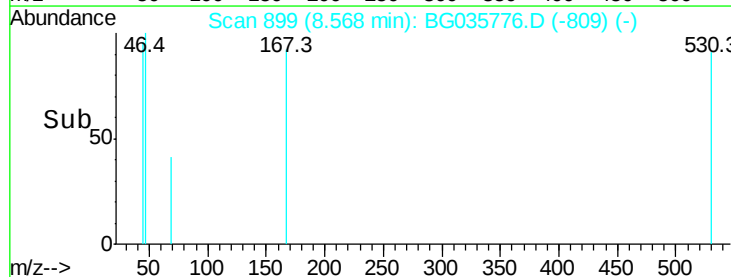
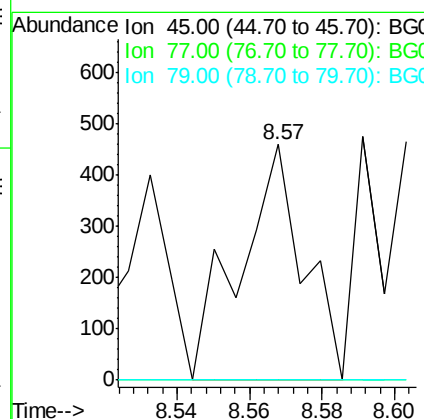
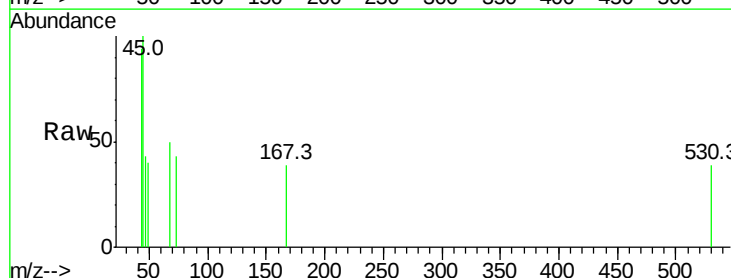
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

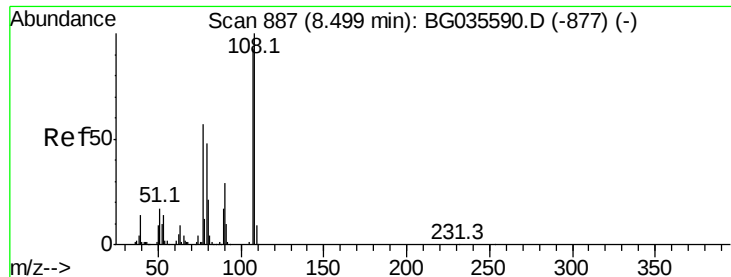
Tot Ion: 79 Resp: 7124  
Ion Ratio Lower Upper  
79 100  
108 32.5 57.2 85.8#  
77 84.5 46.1 69.1#



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 0.201 ng  
RT: 8.57 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion: 45 Resp: 561  
Ion Ratio Lower Upper  
45 100  
77 0.0 0.0 30.2  
79 0.0 0.0 27.9





#17

2-Methylphenol

Concen: 0.023 ng

RT: 8.45 min Scan# 879

Delta R.T. -0.03 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

Tot Ion:107 Resp: 68

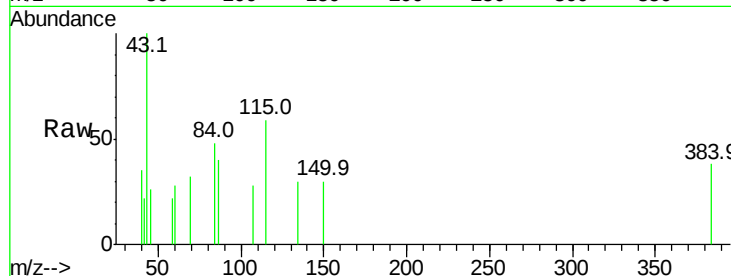
Ion Ratio Lower Upper

107 100

108 0.0 83.9 125.9#

77 0.0 37.2 55.8#

79 0.0 36.2 54.2#

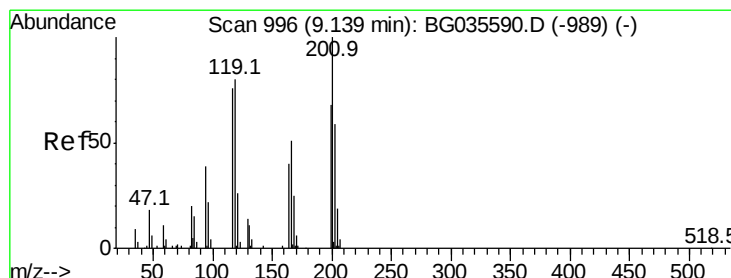
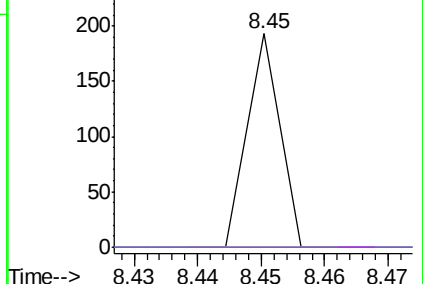
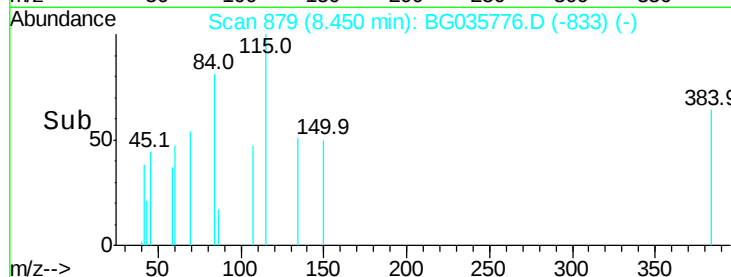


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#18

Hexachloroethane

Concen: 0.045 ng

RT: 8.78 min Scan# 935

Delta R.T. -0.34 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

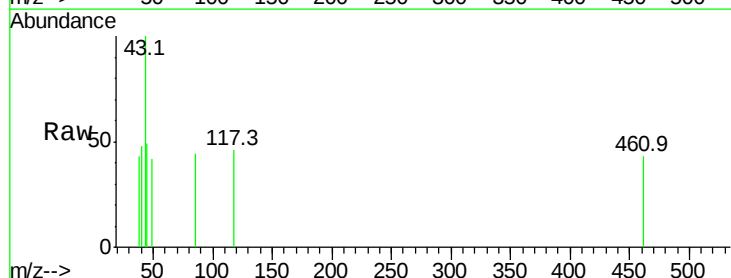
Tgt Ion:117 Resp: 60

Ion Ratio Lower Upper

117 100

119 0.0 76.7 115.1#

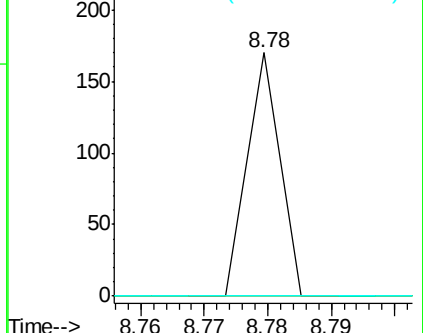
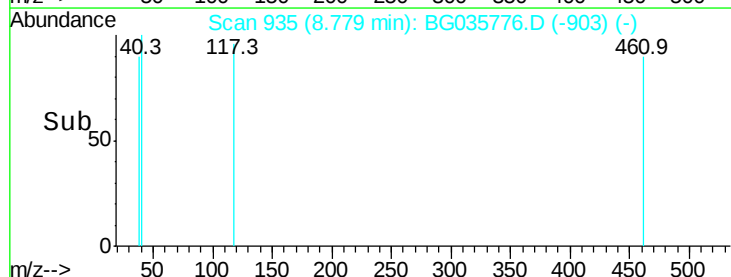
201 0.0 95.7 143.5#

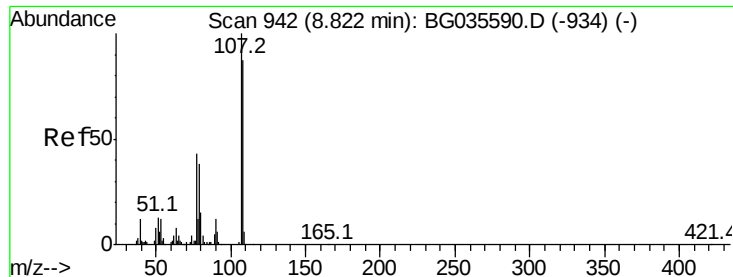


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#20

3+4-Methylphenols

Concen: 0.020 ng

RT: 8.93 min Scan# 961

Delta R.T. 0.12 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

Tot Ion:107 Resp: 81

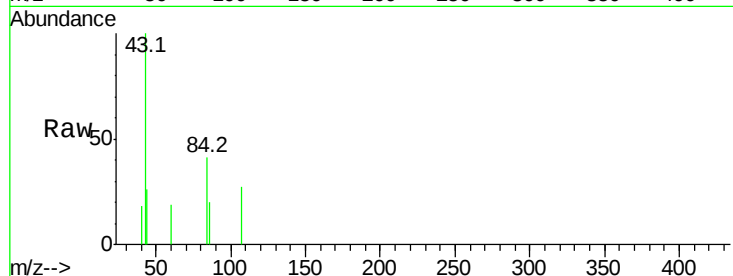
Ion Ratio Lower Upper

107 100

108 0.0 61.6 101.6#

77 0.0 13.9 53.9#

79 0.0 8.8 48.8#

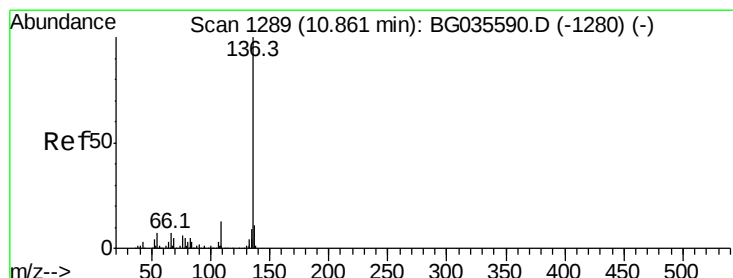
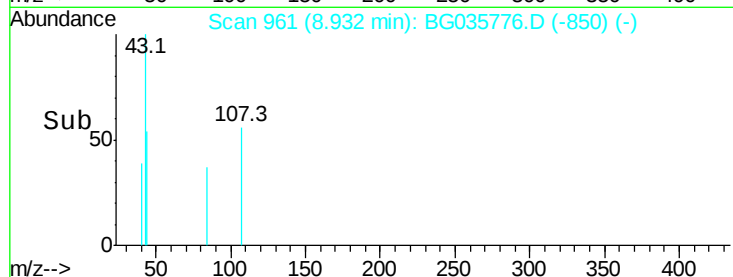
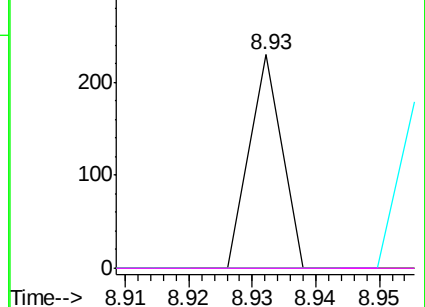


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 79.00 (78.70 to 79.70): BG



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.83 min Scan# 1284

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Tgt Ion:136 Resp: 161174

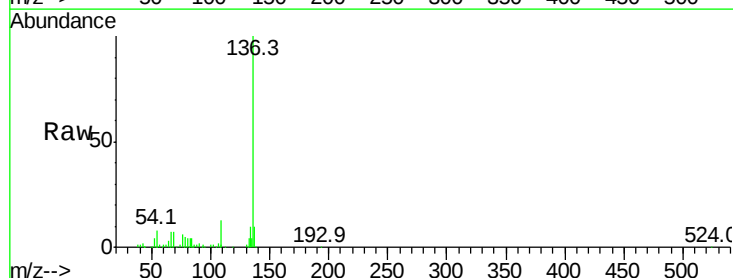
Ion Ratio Lower Upper

136 100

137 10.5 9.2 13.8

54 7.8 10.3 15.5#

68 7.0 4.5 6.7#

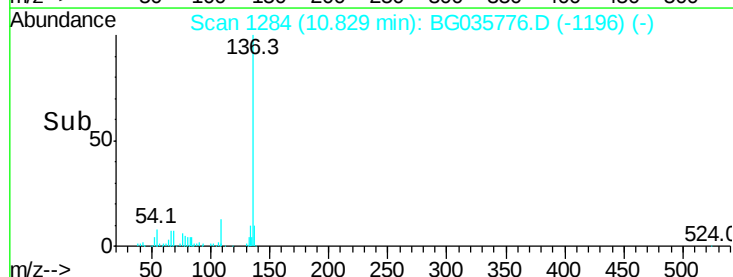
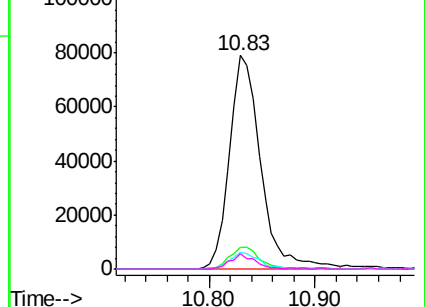


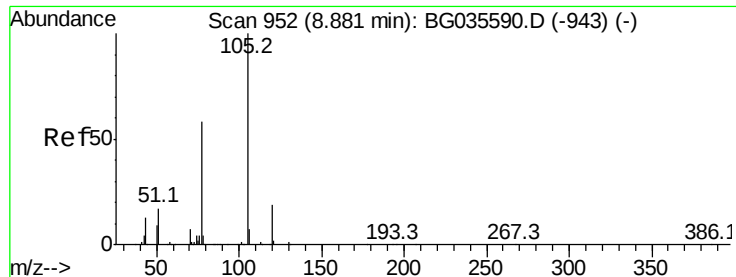
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BG

Ion 68.00 (67.70 to 68.70): BG





#22

Acetophenone

Concen: 0.012 ng

RT: 8.83 min Scan# 944

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

Tot Ion: 105 Resp: 60

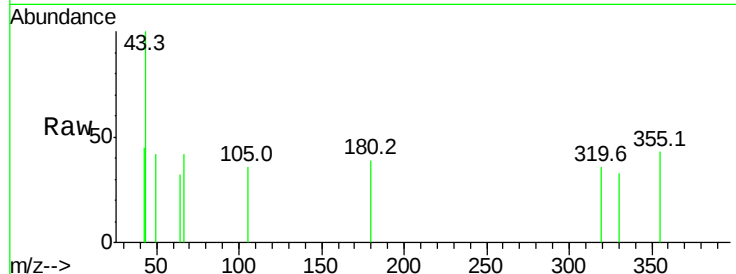
Ion Ratio Lower Upper

105 100

71 0.0 3.0 4.4#

51 0.0 26.1 39.1#

120 0.0 17.4 26.2#



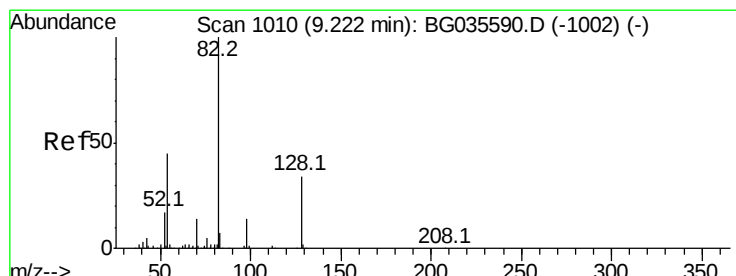
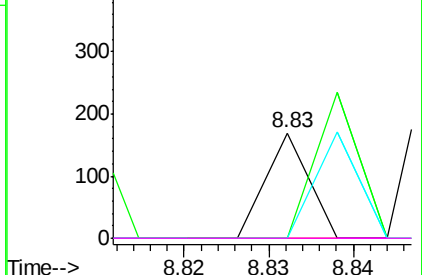
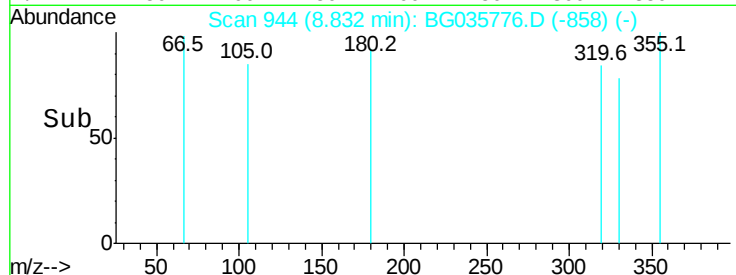
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E

Time-->



#23

Nitrobenzene-d5

Concen: 103.687 ng

RT: 9.19 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

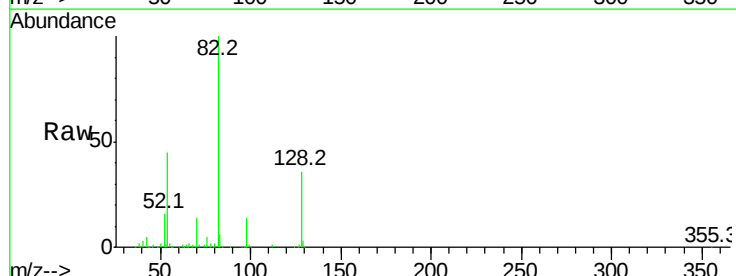
Tgt Ion: 82 Resp: 400041

Ion Ratio Lower Upper

82 100

128 35.8 29.7 44.5

54 45.0 43.1 64.7

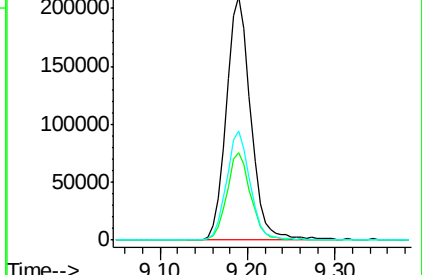
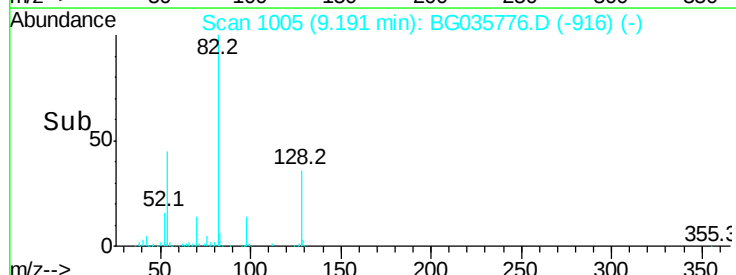


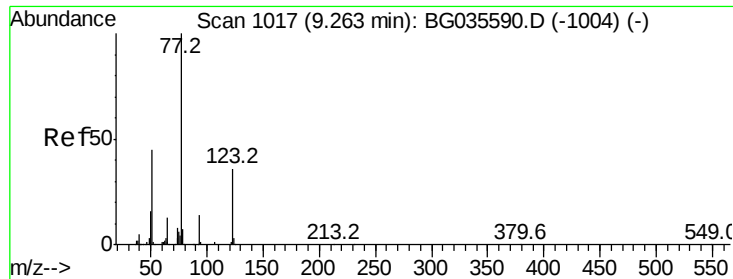
Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

Time-->

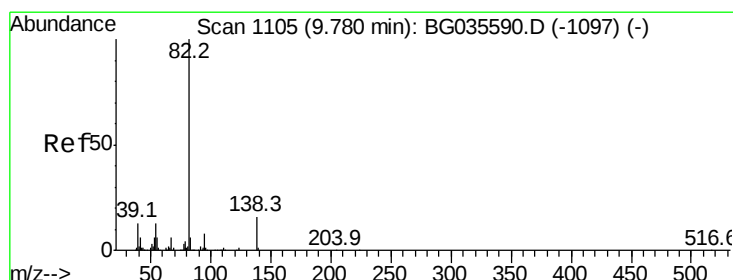
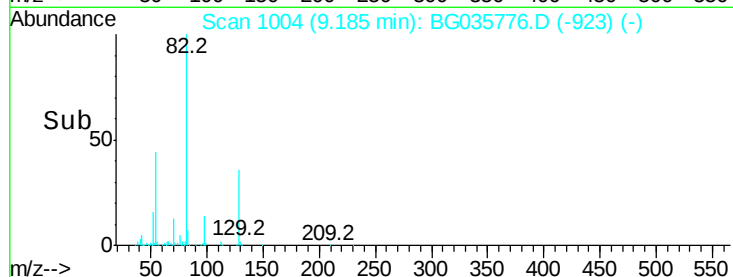
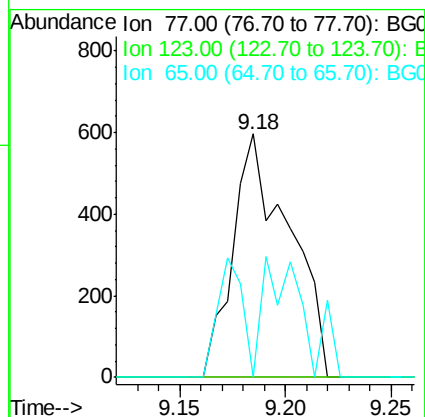
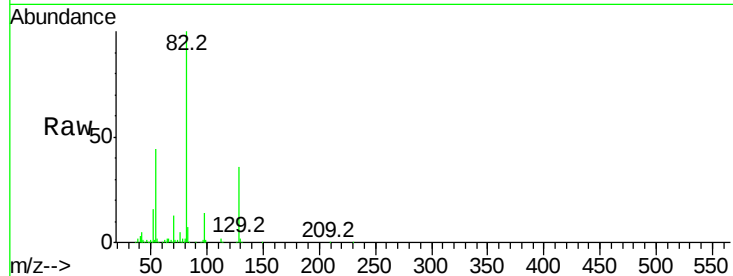




#24  
Nitrobenzene  
Concen: 0.284 ng  
RT: 9.18 min Scan# 1004  
Delta R.T. -0.05 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

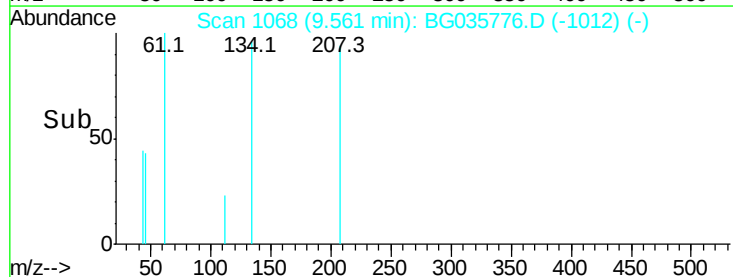
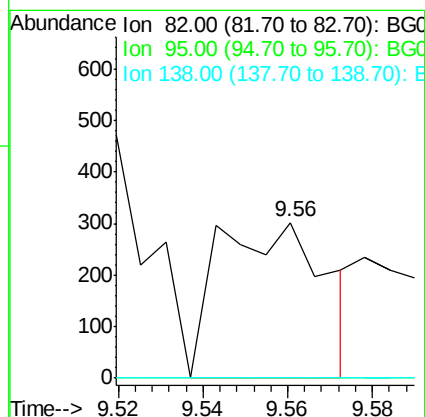
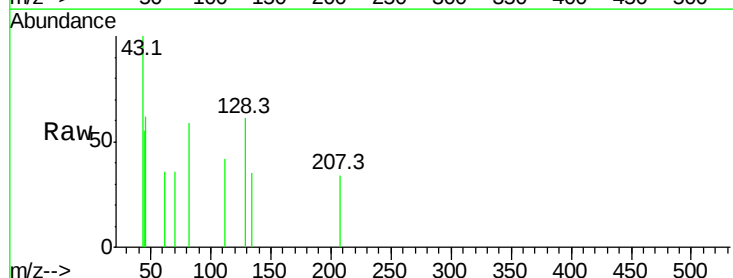
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

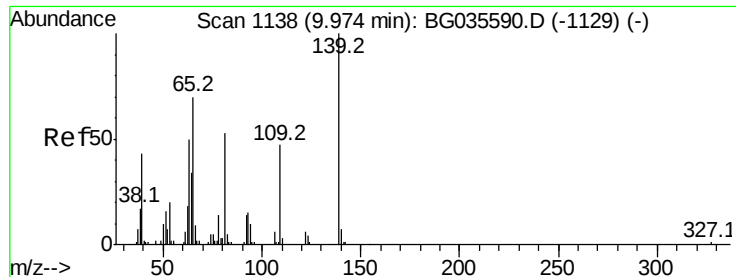
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 0.0   | 33.0  | 49.6# |
| 65      | 0.0   | 13.0  | 19.6# |



#25  
Isophorone  
Concen: 0.074 ng  
RT: 9.56 min Scan# 1068  
Delta R.T. -0.20 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 6.2   | 9.2#  |
| 138     | 0.0   | 12.1  | 18.1# |

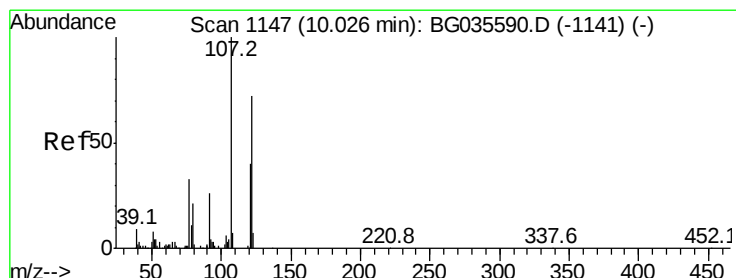
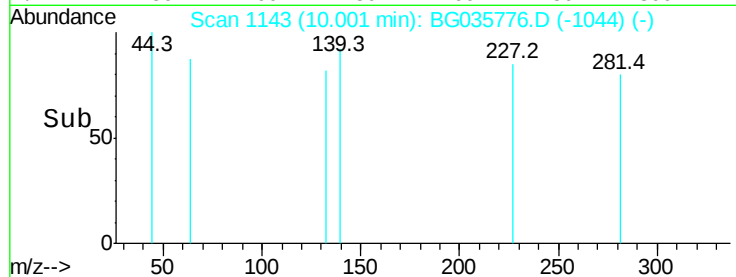
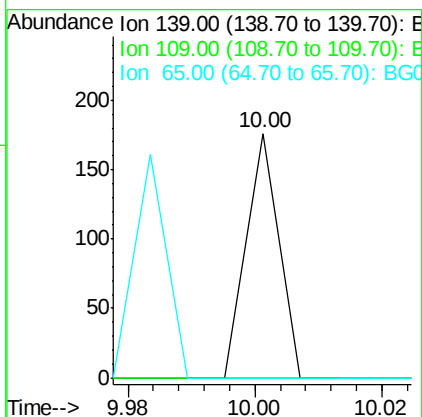
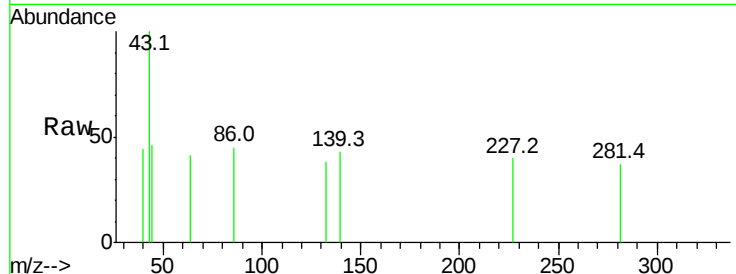




#26  
2-Nitrophenol  
Concen: 0.045 ng  
RT: 10.00 min Scan# 1143  
Delta R.T. 0.05 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

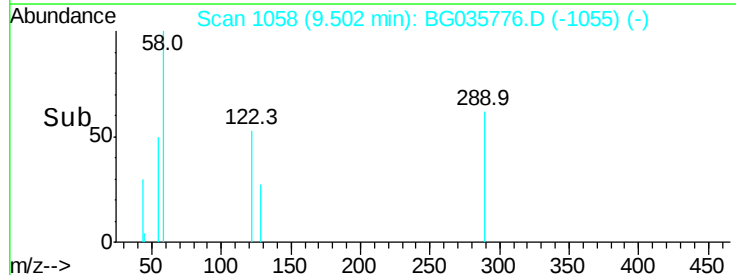
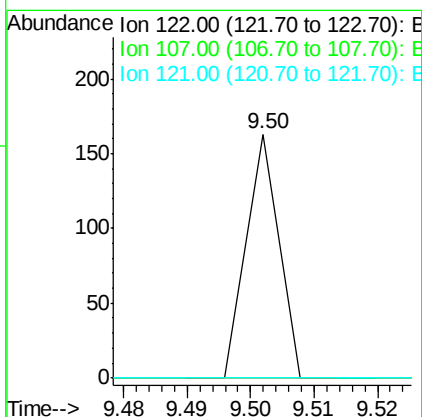
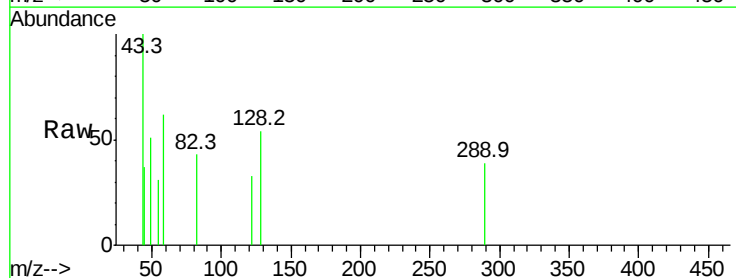
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

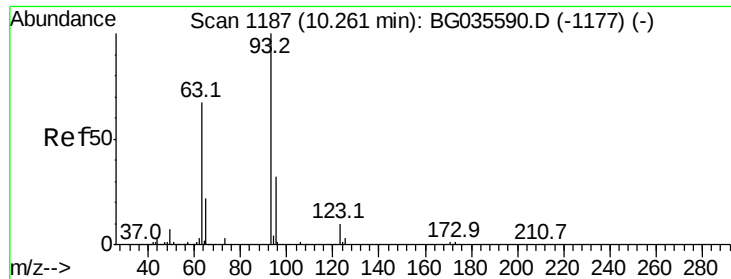
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 0.0   | 24.2  | 36.2# |
| 65      | 0.0   | 47.4  | 71.0# |



#27  
2,4-Dimethylphenol  
Concen: 0.024 ng  
RT: 9.50 min Scan# 1058  
Delta R.T. -0.51 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 107     | 0.0   | 100.2 | 150.2# |
| 121     | 0.0   | 44.4  | 66.6#  |

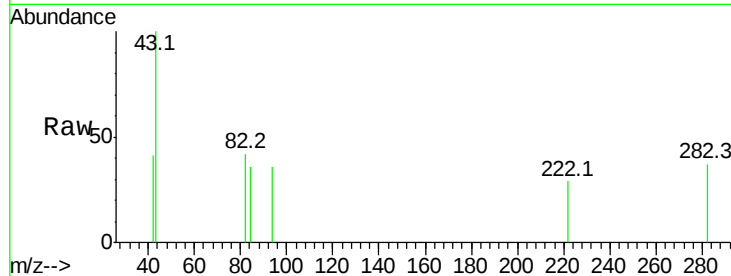




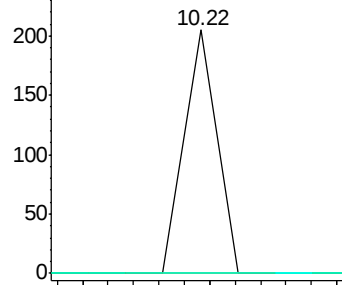
#28  
bis(2-Chloroethoxy)methane  
Concen: 0.018 ng  
RT: 10.22 min Scan# 1180  
Delta R.T. -0.02 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Instrument :  
BNA\_G  
ClientSampled :  
LS-SOIL-3

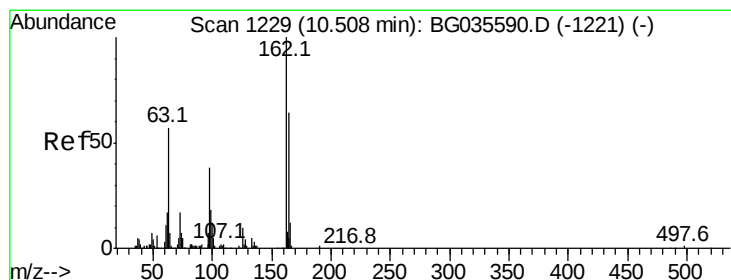
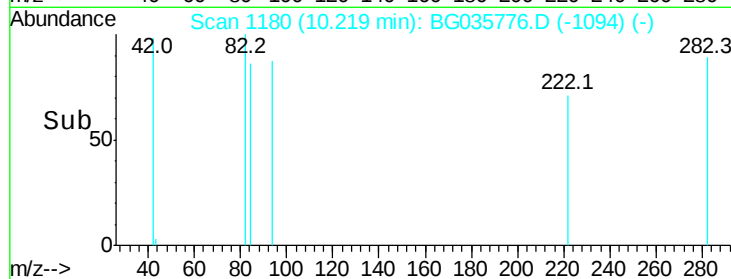
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 0.0   | 24.3  | 36.5# |
| 123     | 0.0   | 8.4   | 12.6# |



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

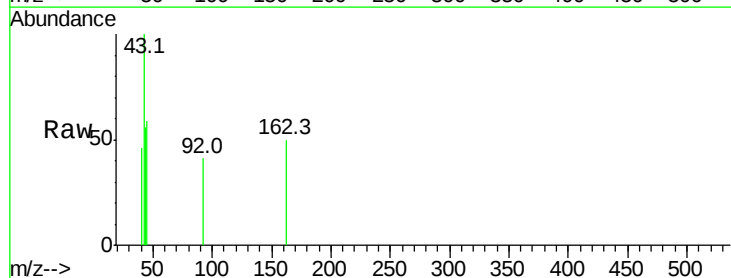


Time-->

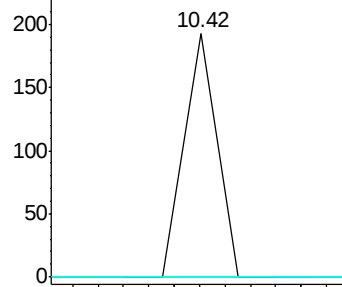


#29  
2,4-Dichlorophenol  
Concen: 0.026 ng  
RT: 10.42 min Scan# 1215  
Delta R.T. -0.07 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

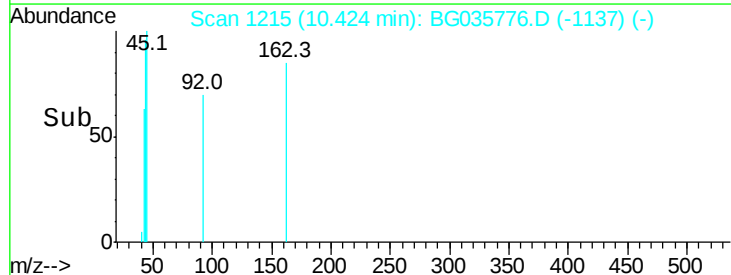
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 0.0   | 48.0  | 88.0# |
| 98      | 0.0   | 21.1  | 61.1# |

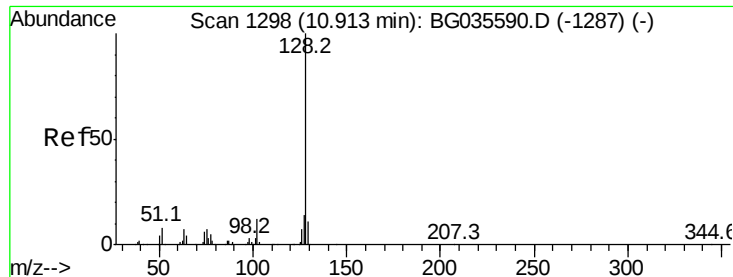


Abundance Ion 162.00 (161.70 to 162.70): BGC  
Ion 164.00 (163.70 to 164.70): BGC  
Ion 98.00 (97.70 to 98.70): BGC



Time-->

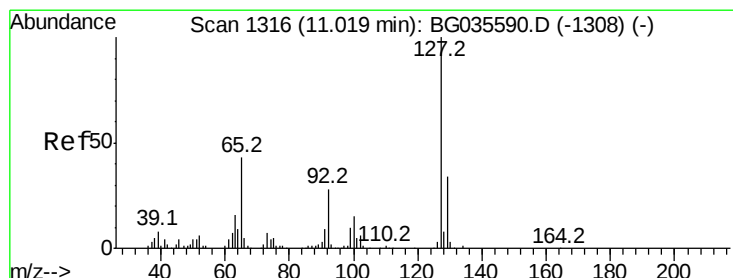
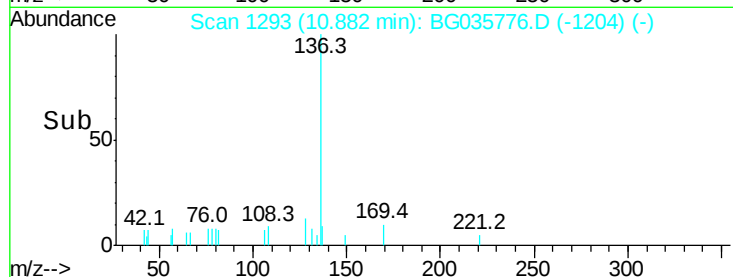
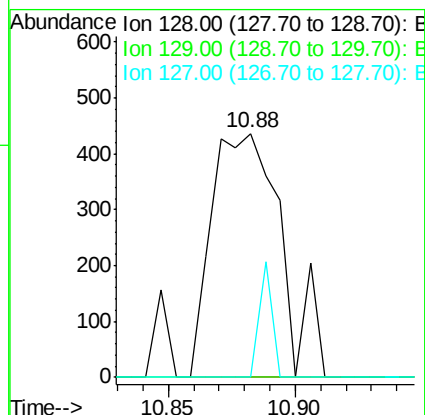
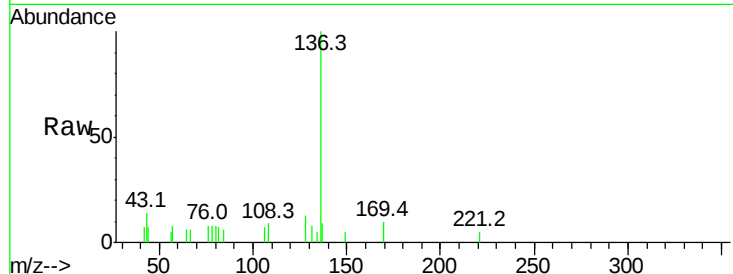




#31  
Naphthalene  
Concen: 0.099 ng  
RT: 10.88 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

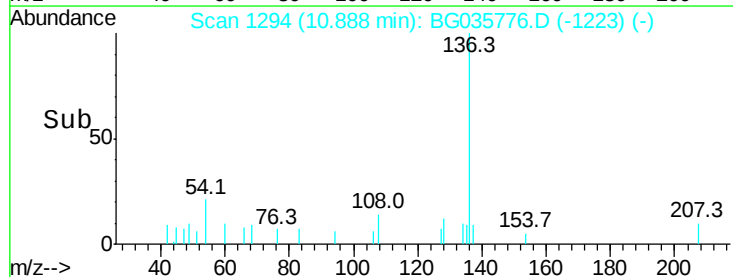
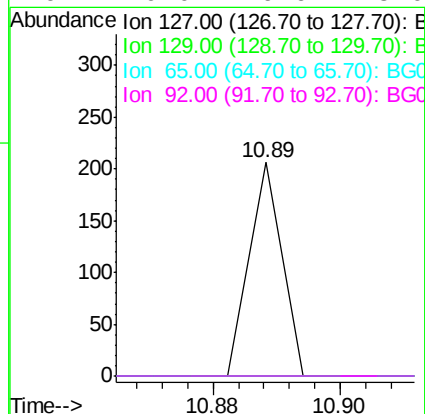
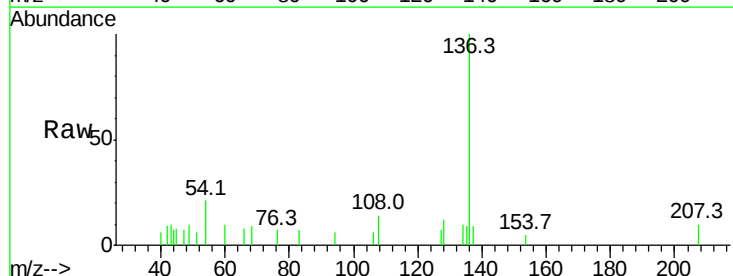
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

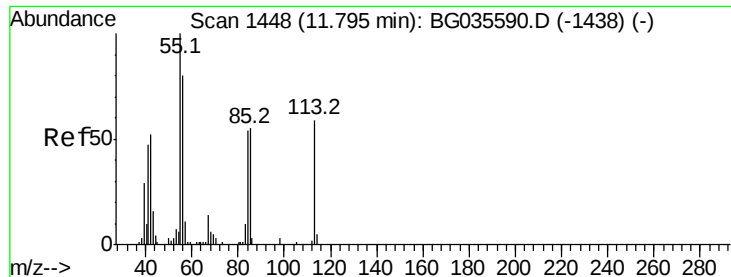
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 0.0   | 8.6   | 12.8# |
| 127     | 0.0   | 11.6  | 17.4# |



#33  
4-Chloroaniline  
Concen: 0.020 ng  
RT: 10.89 min Scan# 1294  
Delta R.T. -0.11 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 0.0   | 24.0  | 36.0# |
| 65      | 0.0   | 27.0  | 40.4# |
| 92      | 0.0   | 16.6  | 25.0# |





#35

Caprolactam

Concen: 0.047 ng

RT: 11.49 min Scan# 1396

Delta R.T. -0.28 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

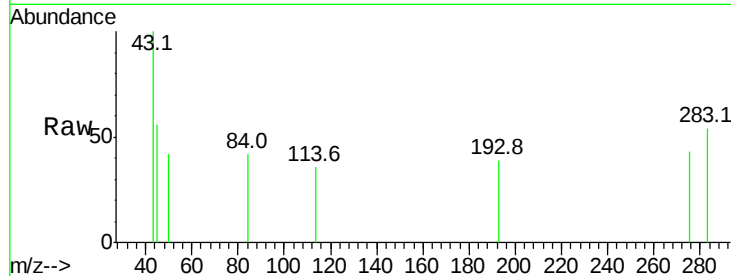
Tot Ion:113 Resp: 54

Ion Ratio Lower Upper

113 100

55 0.0 186.9 226.9#

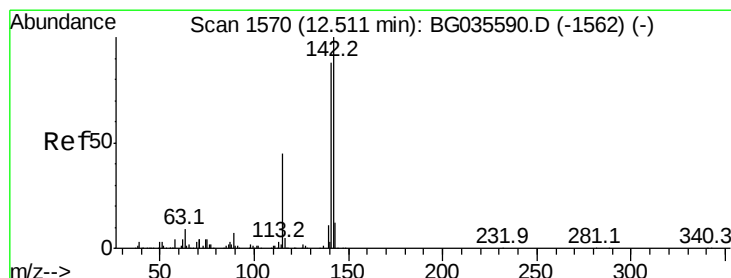
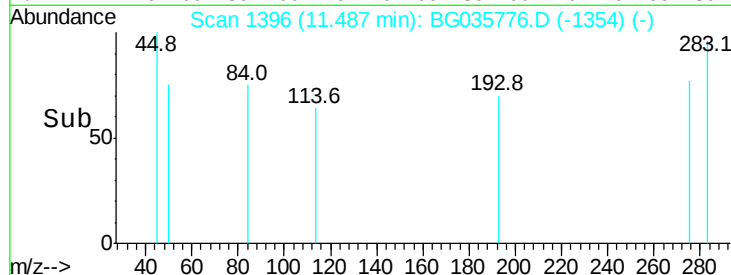
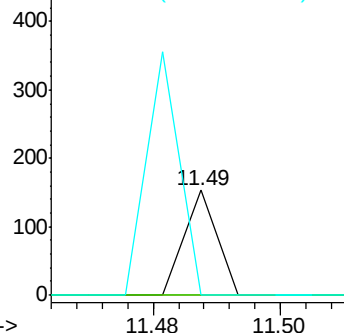
56 0.0 130.9 170.9#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BG

Ion 56.00 (55.70 to 56.70): BG



#37

2-Methylnaphthalene

Concen: 0.016 ng

RT: 12.36 min Scan# 1545

Delta R.T. -0.13 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

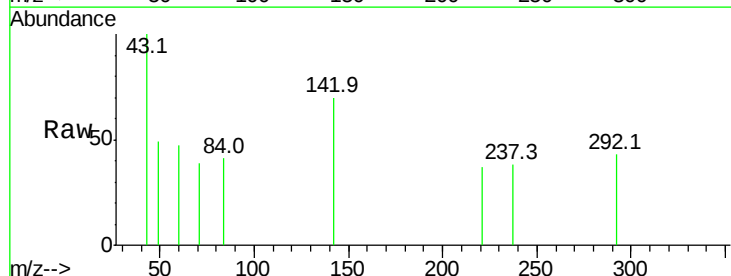
Tgt Ion:142 Resp: 102

Ion Ratio Lower Upper

142 100

141 0.0 67.1 100.7#

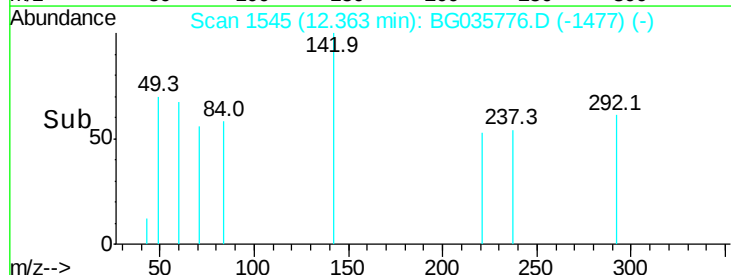
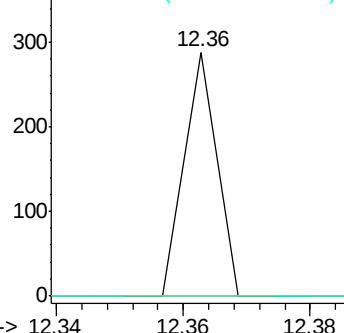
115 0.0 30.7 46.1#

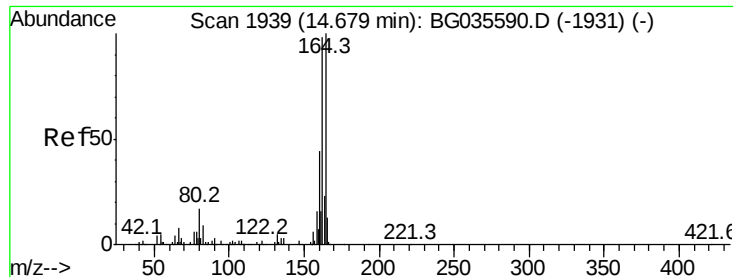


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.65 min Scan# 1935

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

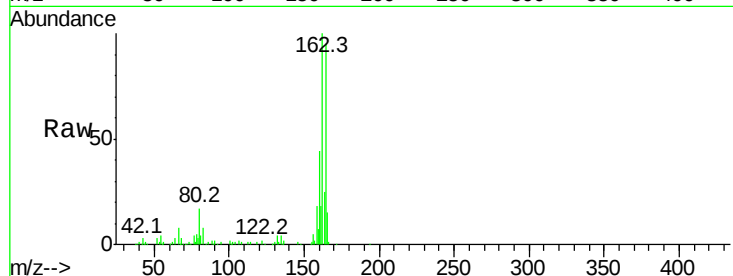
Tot Ion:164 Resp: 106512

Ion Ratio Lower Upper

164 100

162 105.1 78.8 118.2

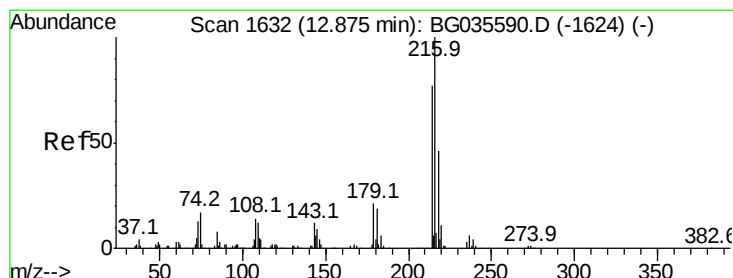
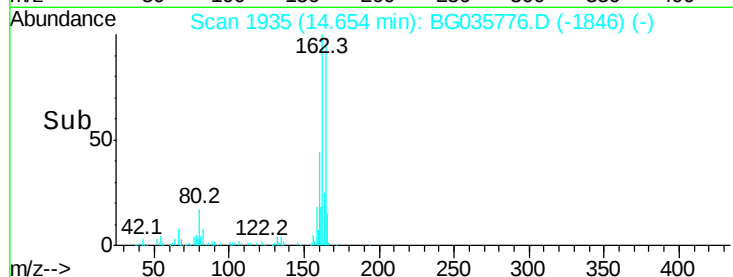
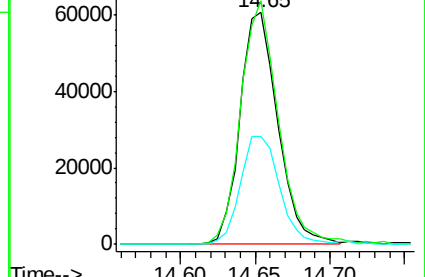
160 46.6 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#39

1,2,4,5-Tetrachlorobenzene

Concen: 0.013 ng

RT: 12.50 min Scan# 1569

Delta R.T. -0.35 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Tgt Ion:216 Resp: 54

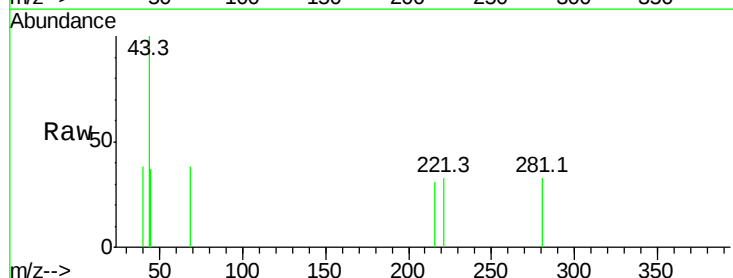
Ion Ratio Lower Upper

216 100

214 0.0 63.0 94.4#

179 0.0 17.0 25.6#

108 0.0 12.8 19.2#

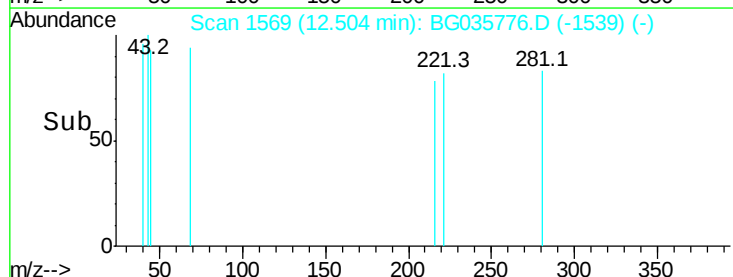
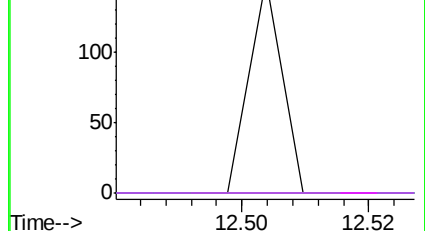


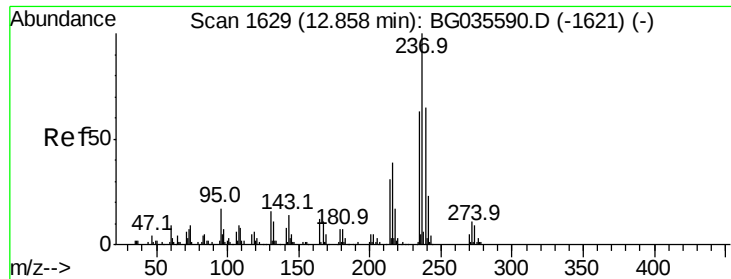
Abundance Ion 216.00 (215.70 to 216.70): E

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: 0.034 ng

RT: 13.04 min Scan# 1661

Delta R.T. 0.20 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

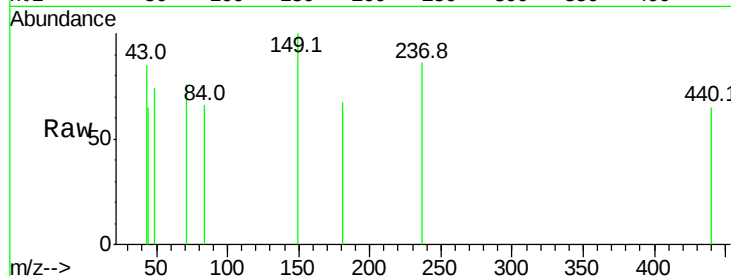
Tot Ion:237 Resp: 72

Ion Ratio Lower Upper

237 100

235 0.0 50.4 90.4#

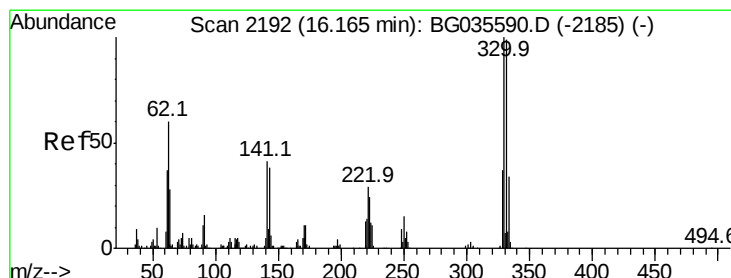
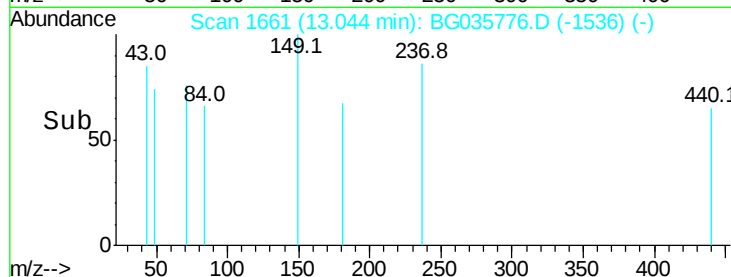
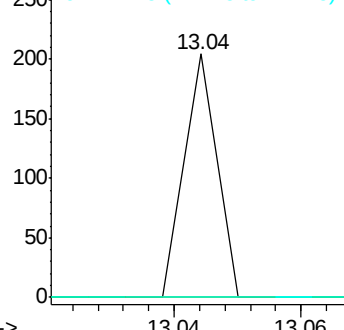
272 0.0 0.0 31.8



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



#41

2,4,6-Tribromophenol

Concen: 178.866 ng

RT: 16.14 min Scan# 2188

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

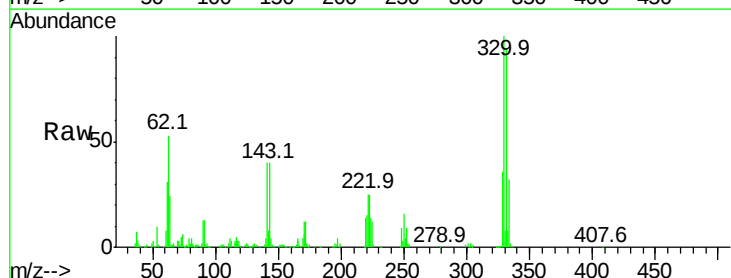
Tgt Ion:330 Resp: 251110

Ion Ratio Lower Upper

330 100

332 94.6 77.0 115.6

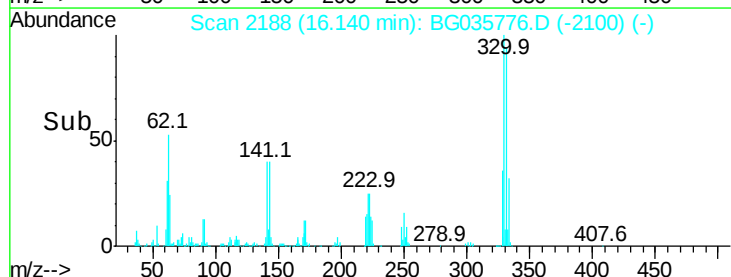
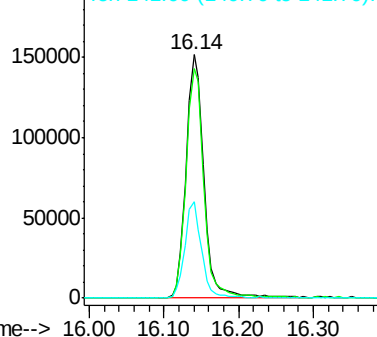
141 37.1 25.2 37.8

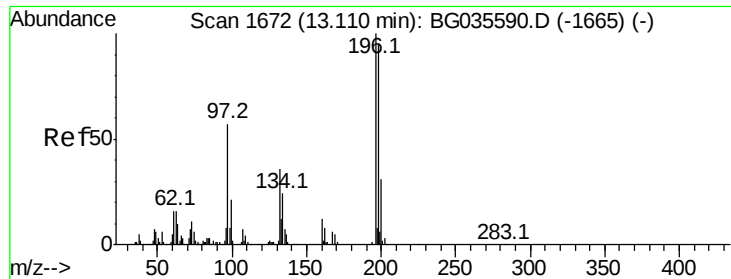


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#42

2,4,6-Trichlorophenol

Concen: 0.027 ng

RT: 12.98 min Scan# 1650

Delta R.T. -0.12 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

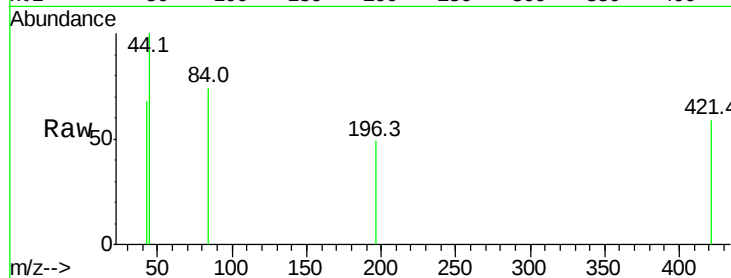
Tot Ion:196 Resp: 63

Ion Ratio Lower Upper

196 100

198 0.0 78.2 117.2#

200 0.0 24.6 36.8#

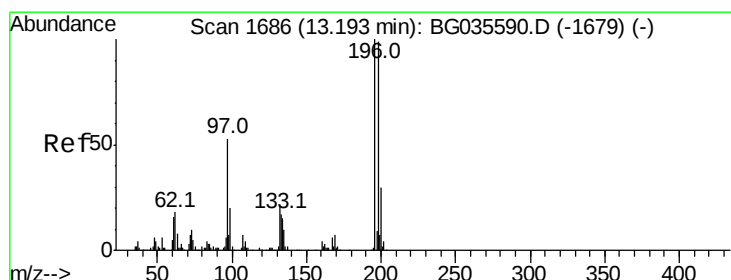
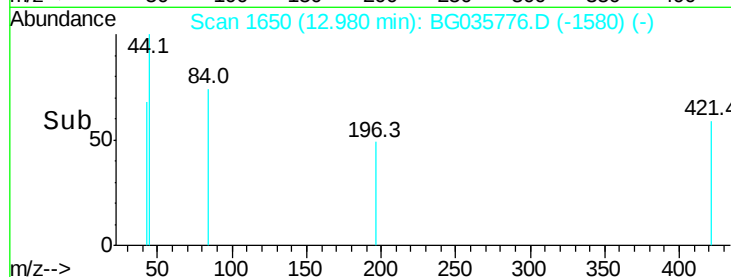
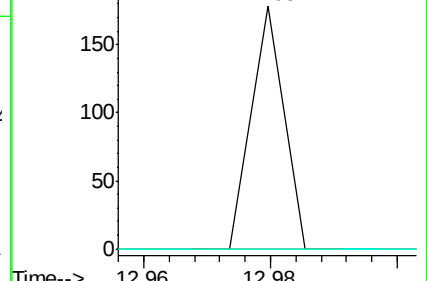


Abundance Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E

12.98



#43

2,4,5-Trichlorophenol

Concen: 0.024 ng

RT: 12.98 min Scan# 1650

Delta R.T. -0.20 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Tgt Ion:196 Resp: 63

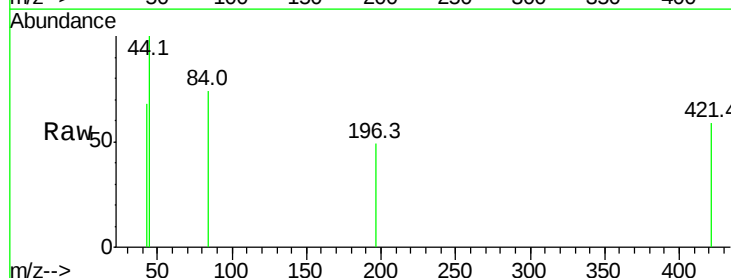
Ion Ratio Lower Upper

196 100

198 0.0 76.2 114.4#

97 0.0 38.7 58.1#

132 0.0 20.2 30.2#



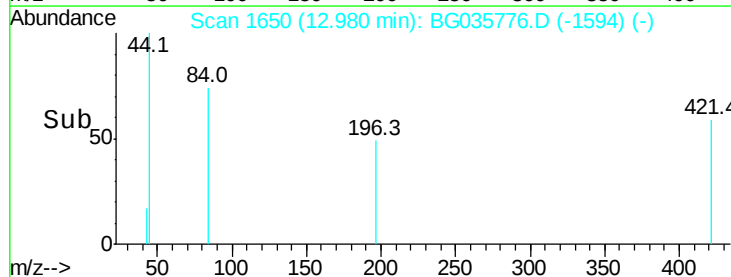
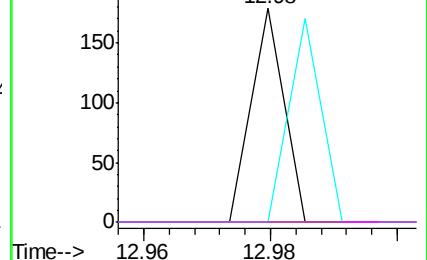
Abundance Ion 196.00 (195.70 to 196.70): E

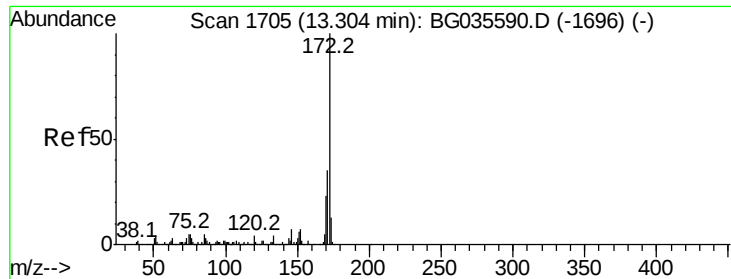
Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BGC

Ion 132.00 (131.70 to 132.70): E

12.98

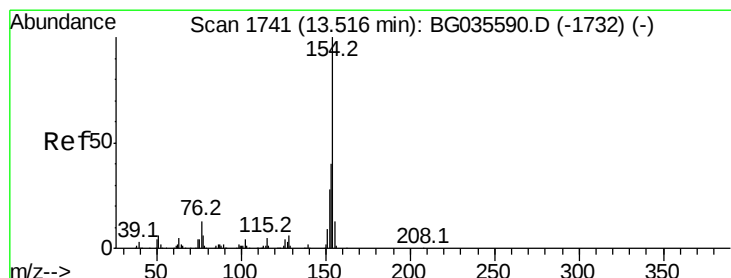
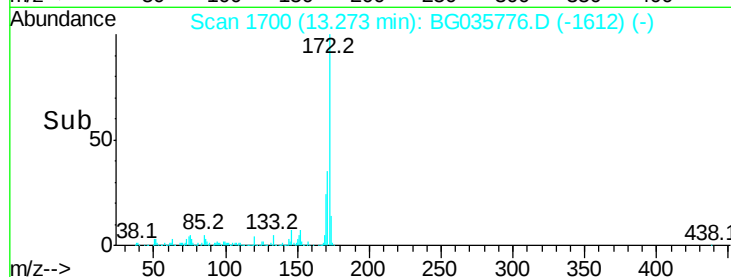
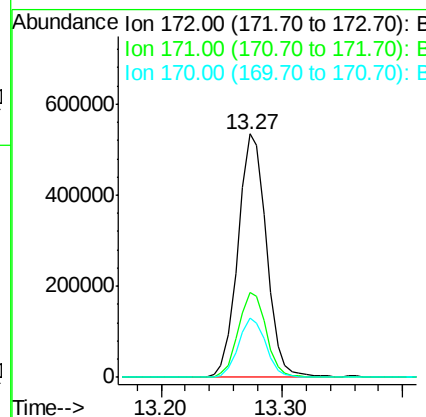
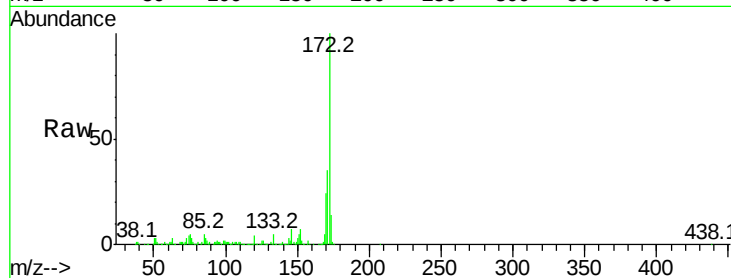




#44  
2-Fluorobiphenyl  
Concen: 110.568 ng  
RT: 13.27 min Scan# 1700  
Delta R.T. -0.01 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

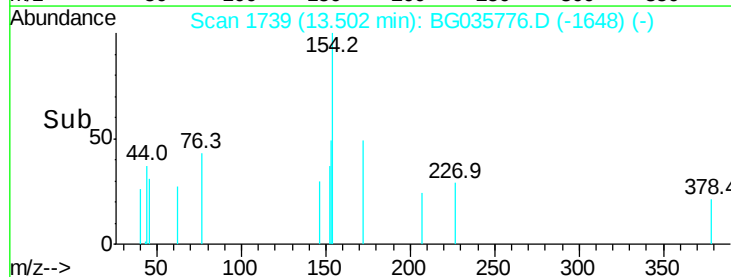
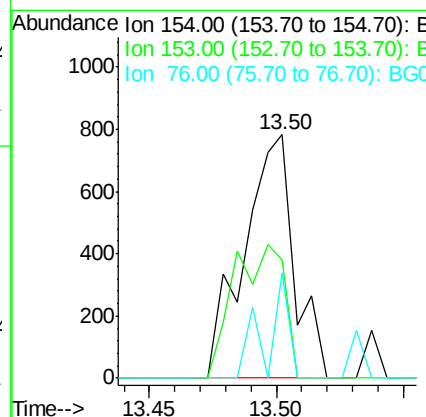
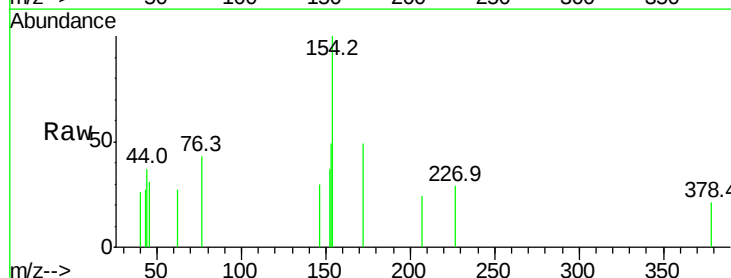
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

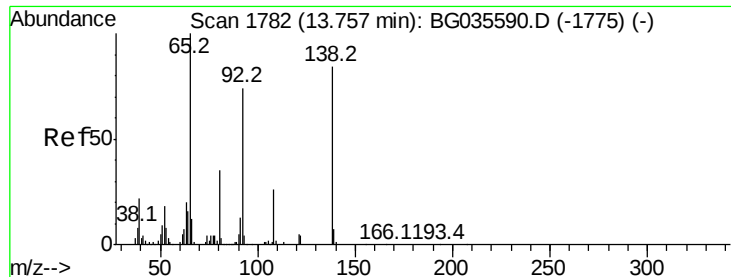
Tot Ion:172 Resp: 879040  
Ion Ratio Lower Upper  
172 100  
171 34.7 30.0 45.0  
170 24.2 19.5 29.3



#45  
1,1'-Biphenyl  
Concen: 0.131 ng  
RT: 13.50 min Scan# 1739  
Delta R.T. 0.00 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion:154 Resp: 1080  
Ion Ratio Lower Upper  
154 100  
153 48.7 19.8 59.8  
76 43.4 0.0 31.9#

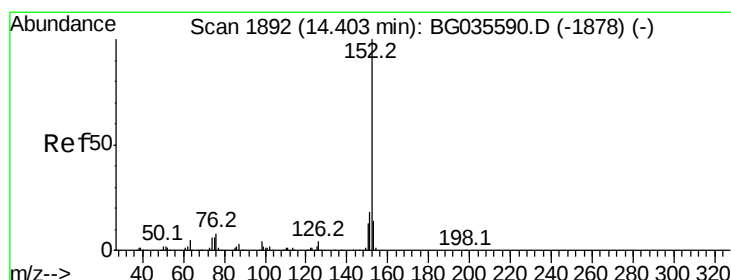
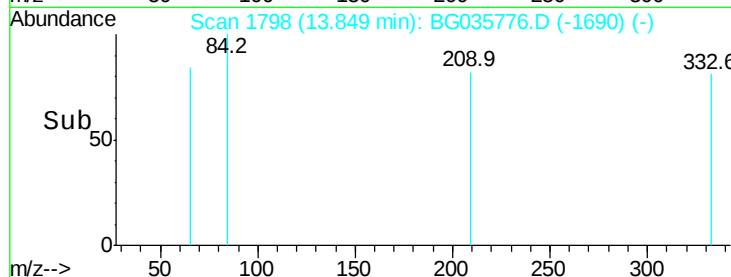
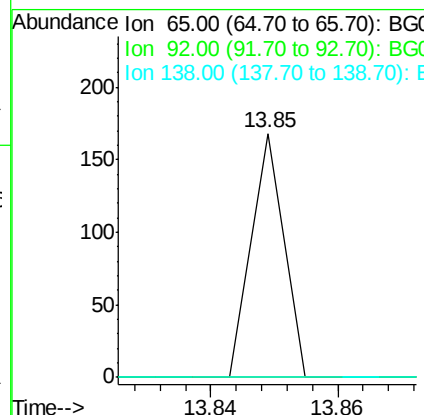
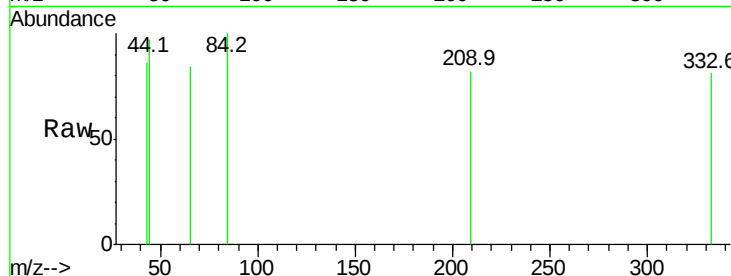




#47  
2-Nitroaniline  
Concen: 0.026 ng  
RT: 13.85 min Scan# 1798  
Delta R.T. 0.10 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

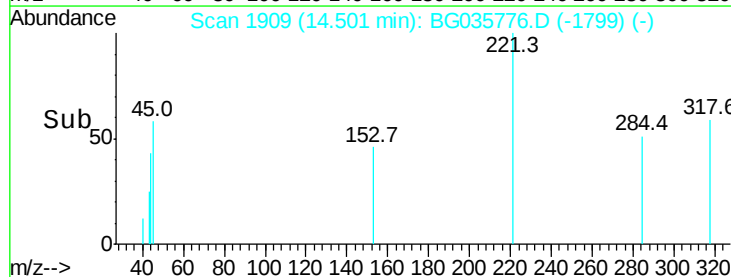
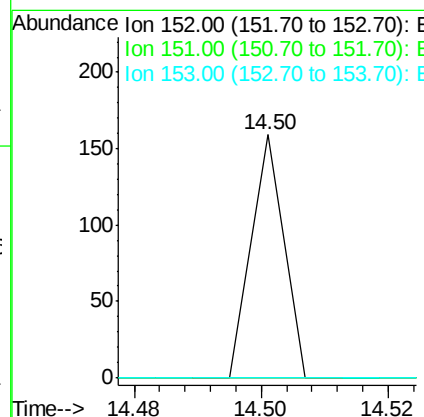
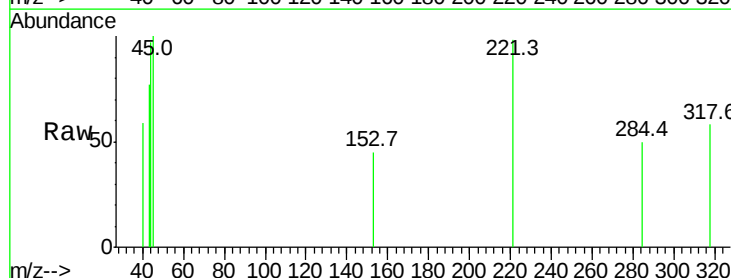
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

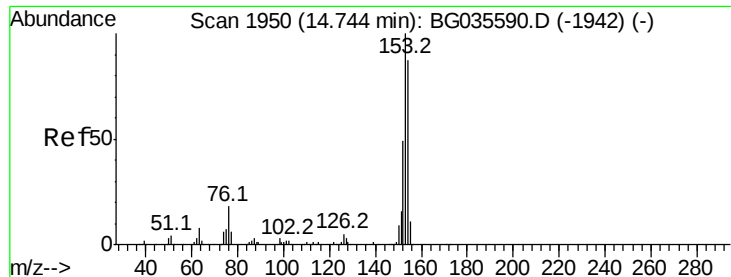
Tot Ion: 65 Resp: 59  
Ion Ratio Lower Upper  
65 100  
92 0.0 54.6 82.0#  
138 0.0 72.9 109.3#



#48  
Acenaphthylene  
Concen: 0.005 ng  
RT: 14.50 min Scan# 1909  
Delta R.T. 0.12 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion: 152 Resp: 56  
Ion Ratio Lower Upper  
152 100  
151 0.0 17.2 25.8#  
153 0.0 10.2 15.4#





#51

Acenaphthene

Concen: 0.011 ng

RT: 14.72 min Scan# 1947

Delta R.T. -0.00 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

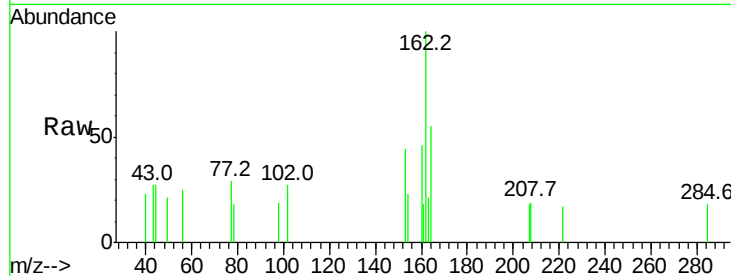
Tot Ion:154 Resp: 74

Ion Ratio Lower Upper

154 100

153 188.5 90.4 135.6#

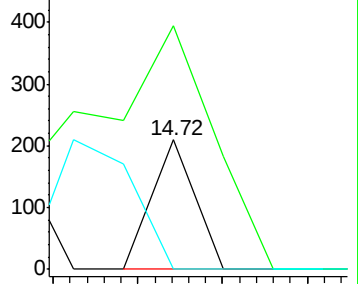
152 0.0 41.6 62.4#



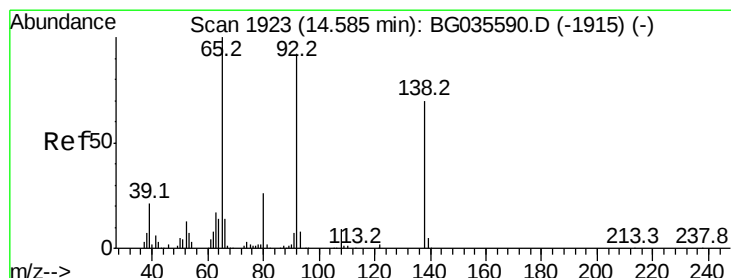
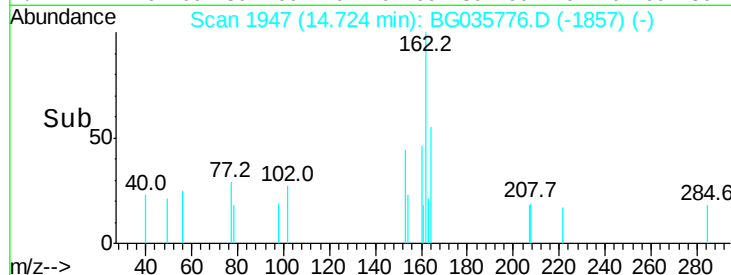
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time--> 14.71 14.72 14.73 14.74



#52

3-Nitroaniline

Concen: 0.047 ng

RT: 14.37 min Scan# 1886

Delta R.T. -0.20 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

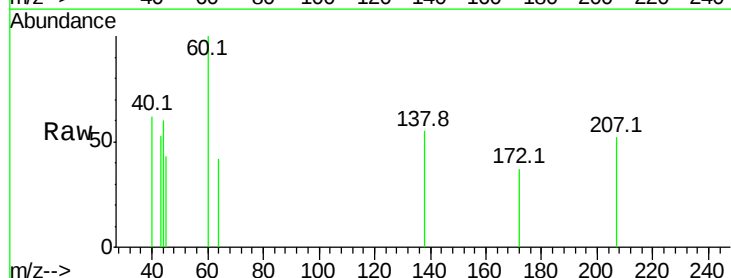
Tgt Ion:138 Resp: 91

Ion Ratio Lower Upper

138 100

108 0.0 17.5 26.3#

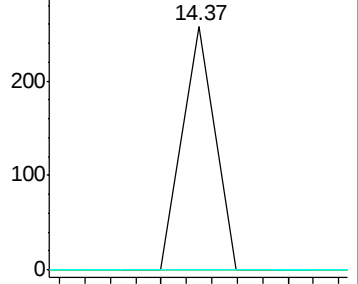
92 0.0 105.8 158.8#



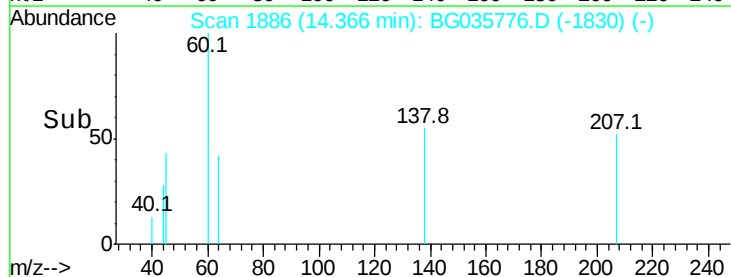
Abundance Ion 138.00 (137.70 to 138.70): E

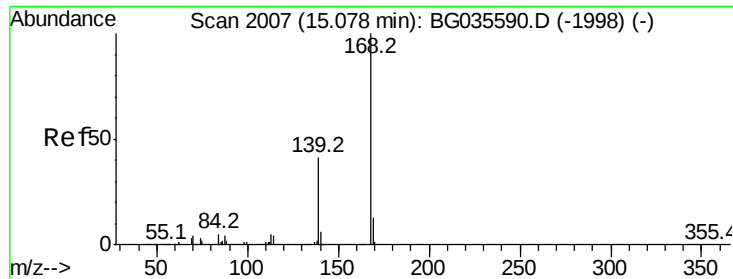
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BG



Time--> 14.36 14.38





#54

Dibenzofuran

Concen: 0.005 ng

RT: 15.09 min Scan# 2009

Delta R.T. 0.03 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

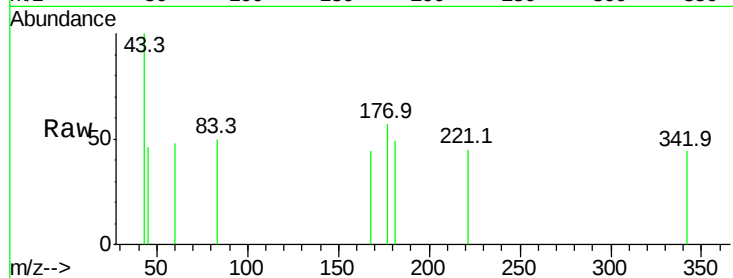
Tot Ion:168 Resp: 54

Ion Ratio Lower Upper

168 100

139 0.0 28.6 43.0#

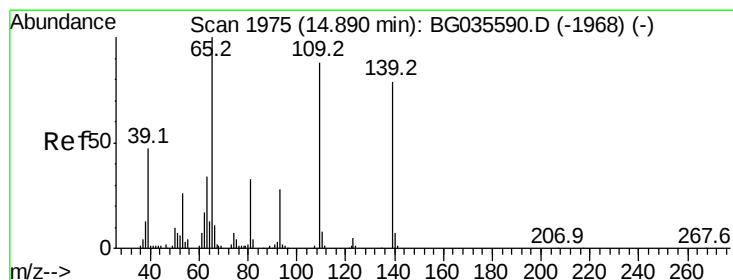
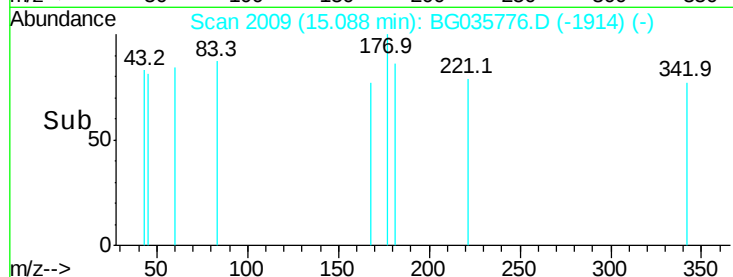
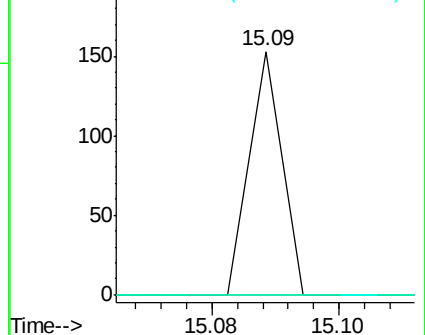
169 0.0 11.2 16.8#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 0.042 ng

RT: 14.95 min Scan# 1986

Delta R.T. 0.07 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

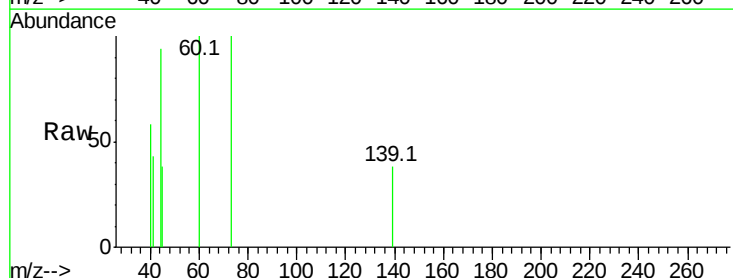
Tgt Ion:139 Resp: 58

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

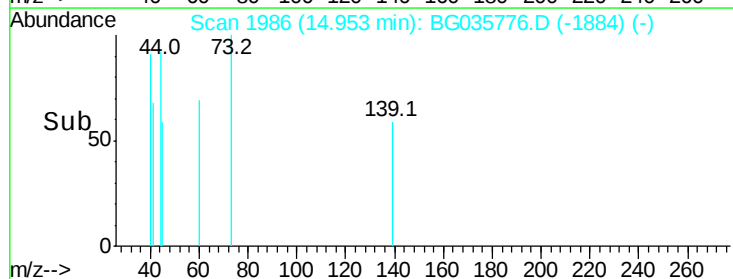
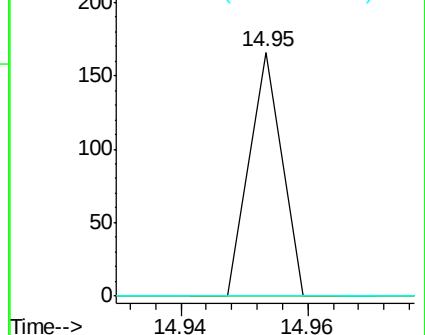
65 0.0 97.2 137.2#

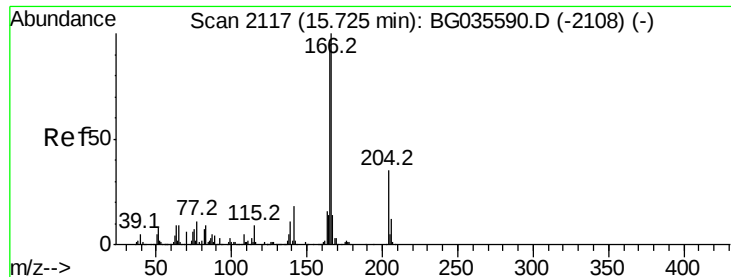


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BG





#57

Fluorene

Concen: 0.938 ng

RT: 16.13 min Scan# 2187

Delta R.T. 0.43 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

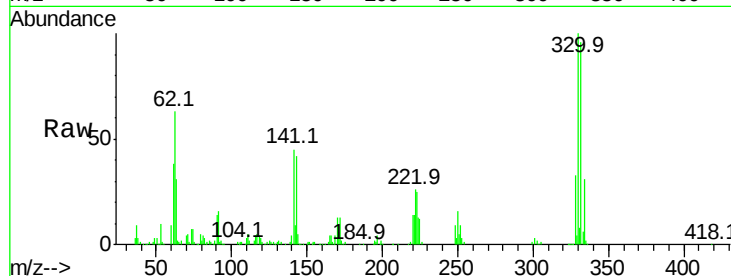
Tot Ion:166 Resp: 8379

Ion Ratio Lower Upper

166 100

165 88.8 80.6 121.0

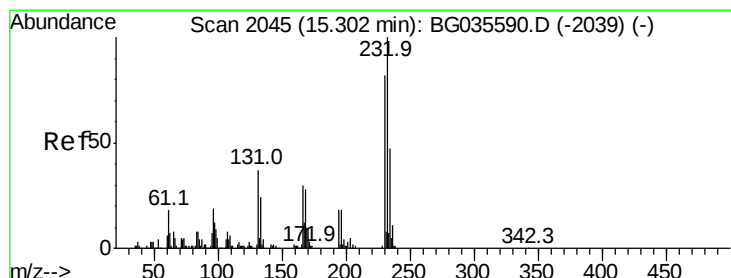
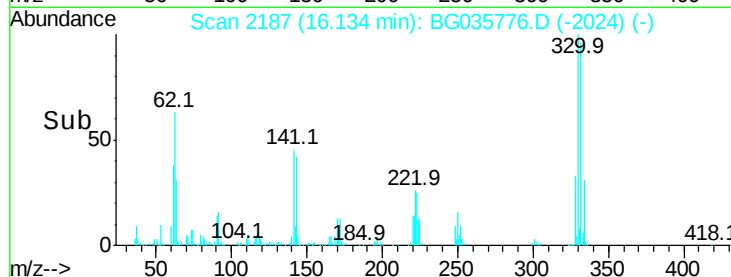
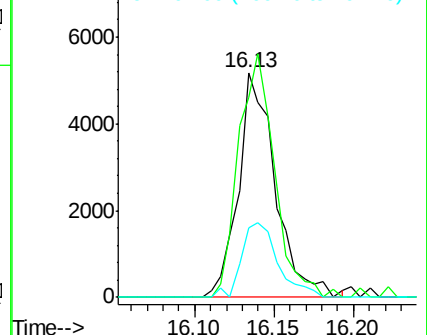
167 30.7 10.4 15.6#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 0.025 ng

RT: 15.24 min Scan# 2034

Delta R.T. -0.05 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Tgt Ion:232 Resp: 62

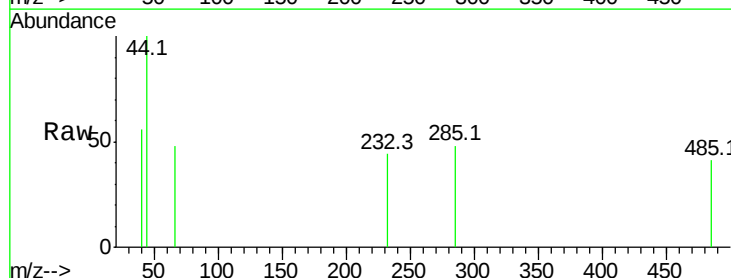
Ion Ratio Lower Upper

232 100

131 0.0 33.5 50.3#

130 0.0 2.2 3.2#

166 0.0 24.8 37.2#

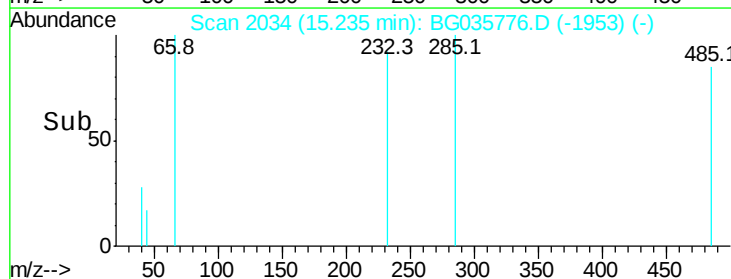
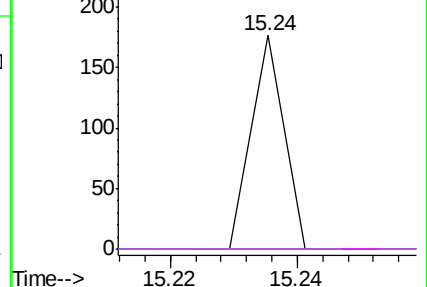


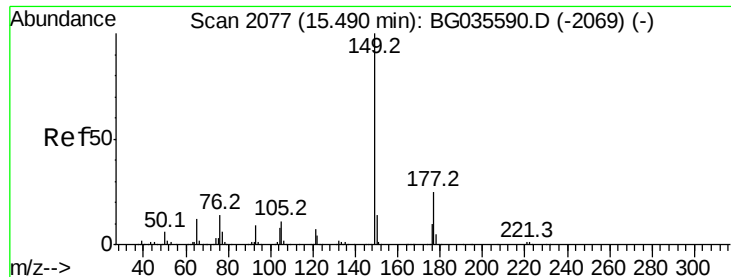
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E





#59

Diethylphthalate

Concen: 0.006 ng

RT: 15.47 min Scan# 2074

Delta R.T. -0.00 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

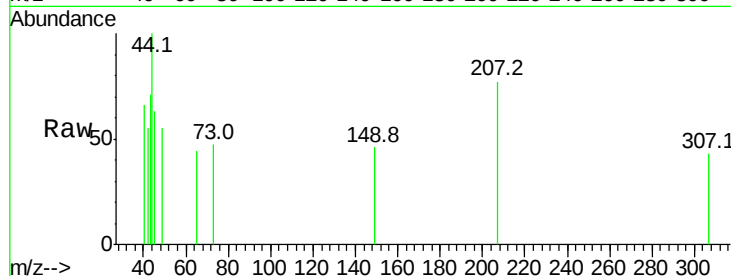
Tot Ion:149 Resp: 59

Ion Ratio Lower Upper

149 100

177 0.0 18.5 27.7#

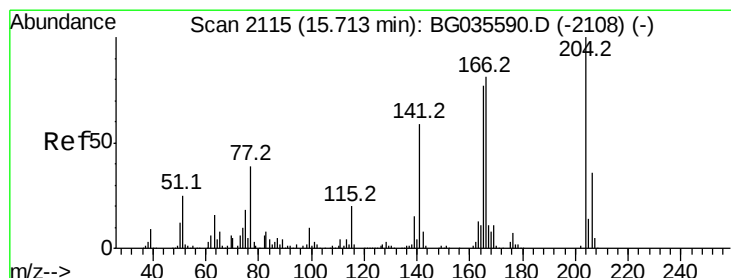
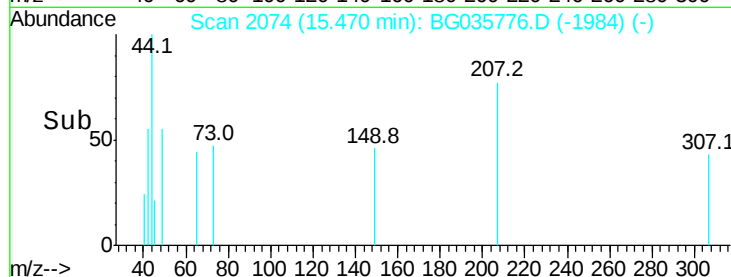
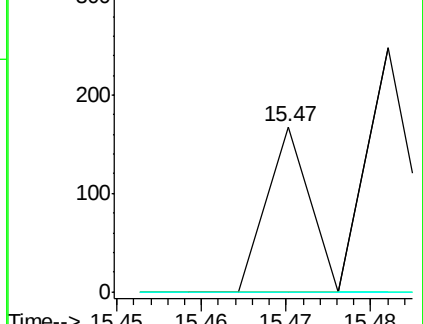
150 0.0 10.2 15.2#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#60

4-Chlorophenyl-phenylether

Concen: 0.011 ng

RT: 15.33 min Scan# 2050

Delta R.T. -0.37 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

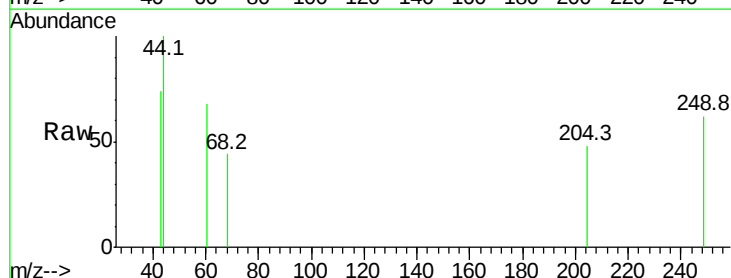
Tgt Ion:204 Resp: 59

Ion Ratio Lower Upper

204 100

206 0.0 26.2 39.2#

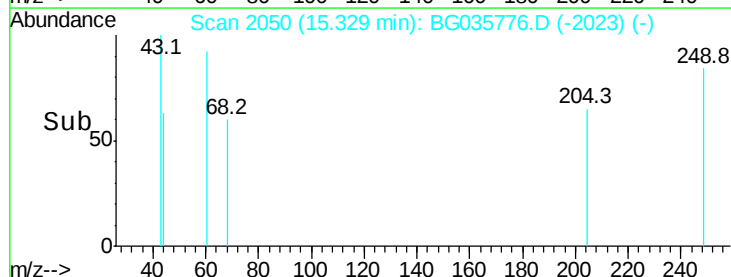
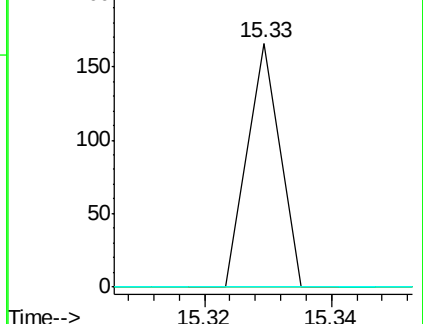
141 0.0 45.8 68.6#

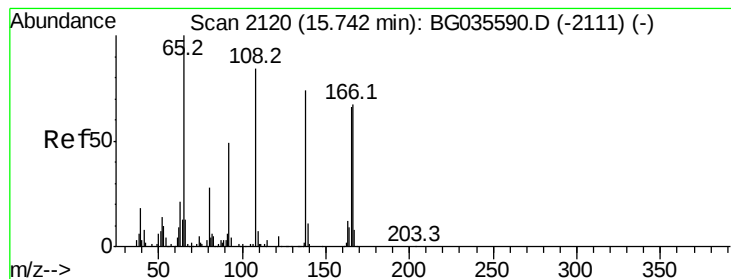


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 0.038 ng

RT: 16.15 min Scan# 2189

Delta R.T. 0.42 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

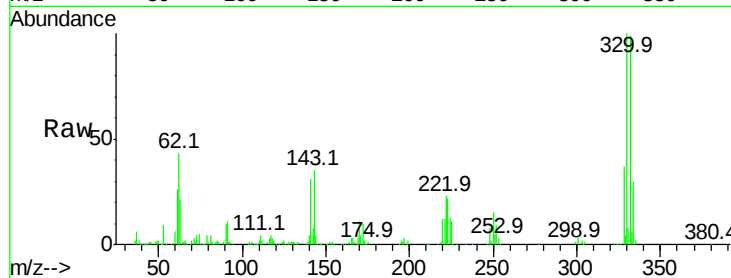
Tot Ion:138 Resp: 78

Ion Ratio Lower Upper

138 100

92 644.8 40.1 80.1#

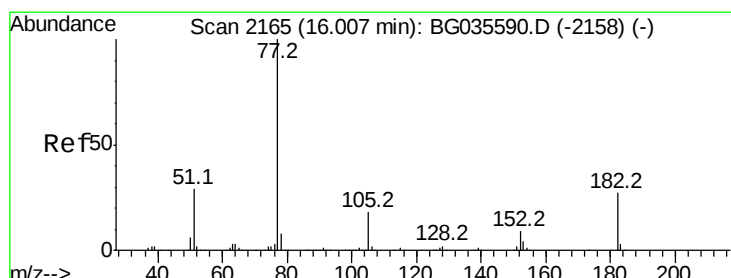
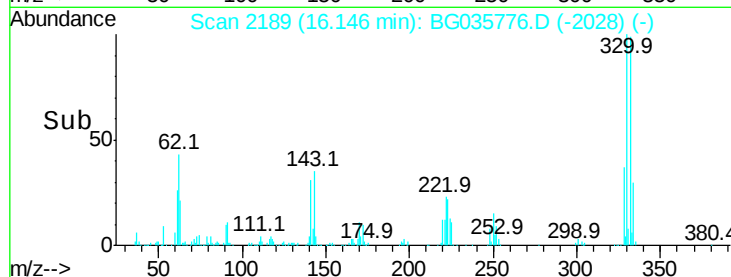
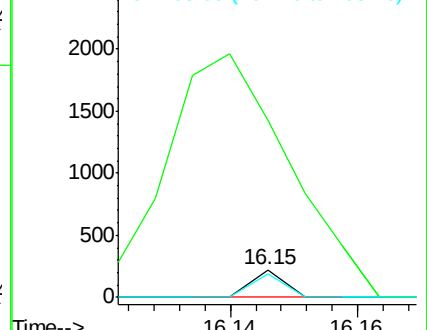
108 86.9 65.4 105.4



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E



#62

Azobenzene

Concen: 0.006 ng

RT: 16.05 min Scan# 2173

Delta R.T. 0.06 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Tgt Ion: 77 Resp: 53

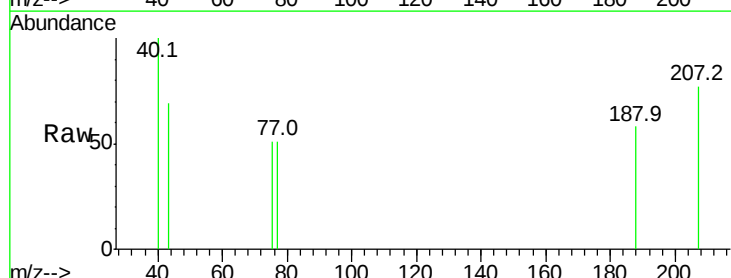
Ion Ratio Lower Upper

77 100

182 0.0 7.4 47.4#

105 0.0 0.3 40.3#

51 0.0 11.6 51.6#

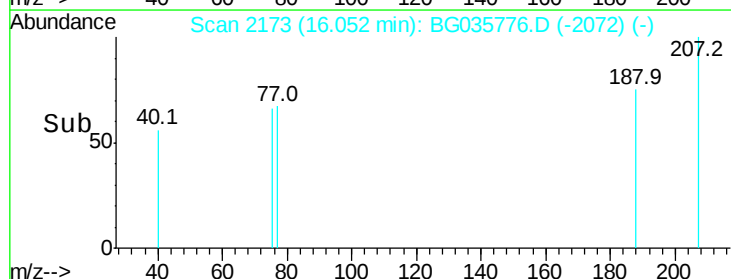
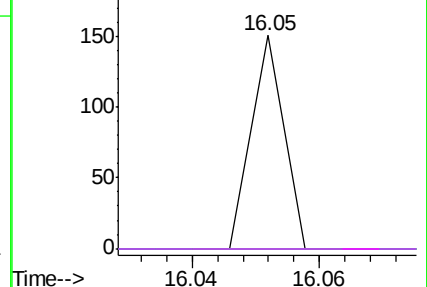


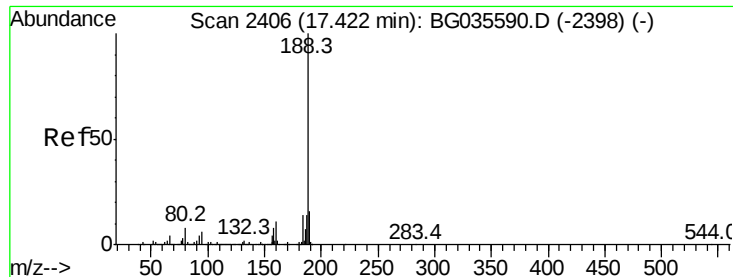
Abundance Ion 77.00 (76.70 to 77.70): BG

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BG





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2402

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

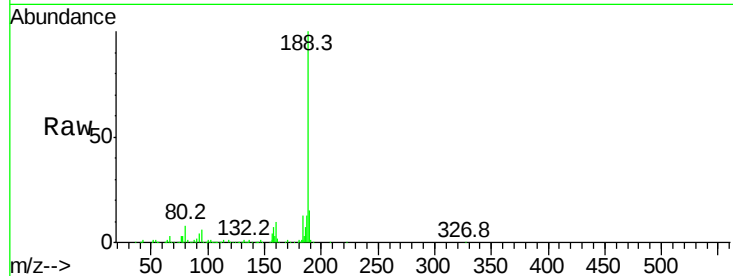
Tot Ion:188 Resp: 307471

Ion Ratio Lower Upper

188 100

94 6.1 6.9 10.3#

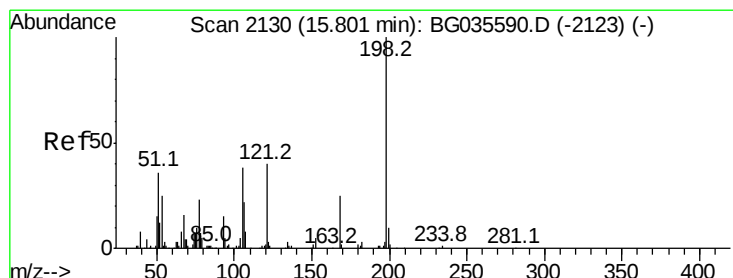
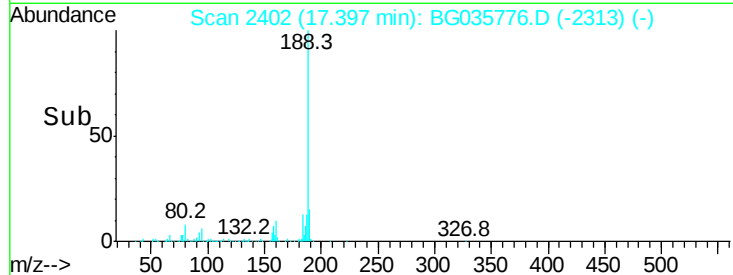
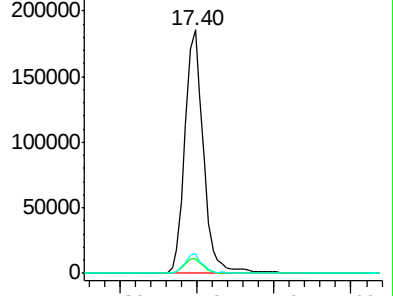
80 8.0 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#64

4,6-Dinitro-2-methylphenol

Concen: 0.415 ng

RT: 16.14 min Scan# 2188

Delta R.T. 0.35 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

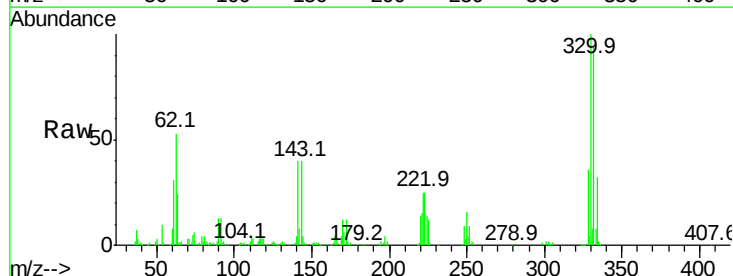
Tgt Ion:198 Resp: 710

Ion Ratio Lower Upper

198 100

51 112.6 30.6 70.6#

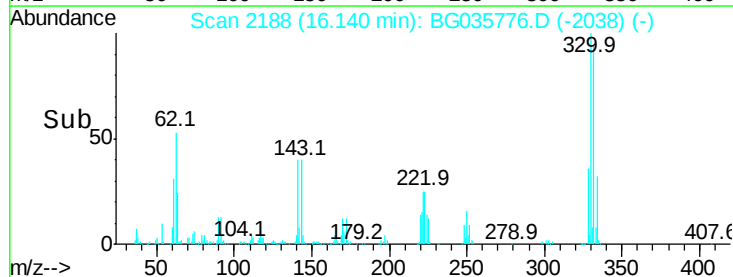
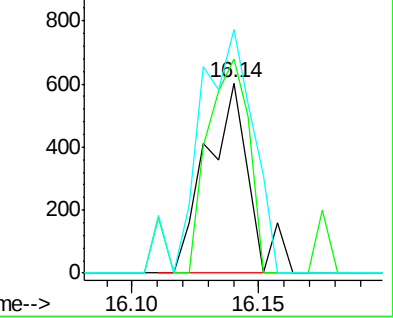
105 127.8 23.8 63.8#

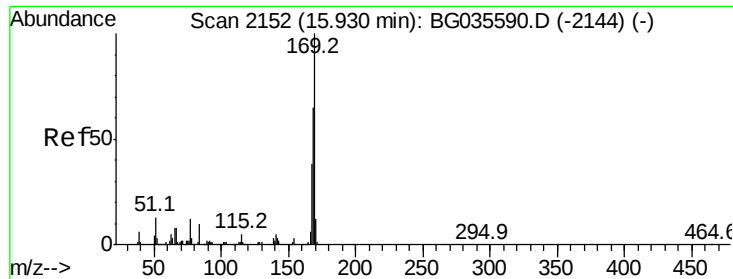


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 1.110 ng

RT: 16.14 min Scan# 2188

Delta R.T. 0.23 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

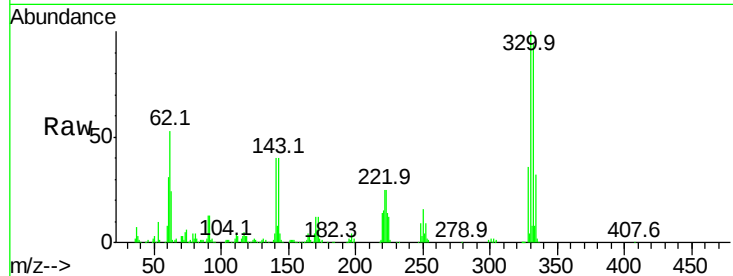
Tot Ion:169 Resp: 9712

Ion Ratio Lower Upper

169 100

168 11.4 55.7 83.5#

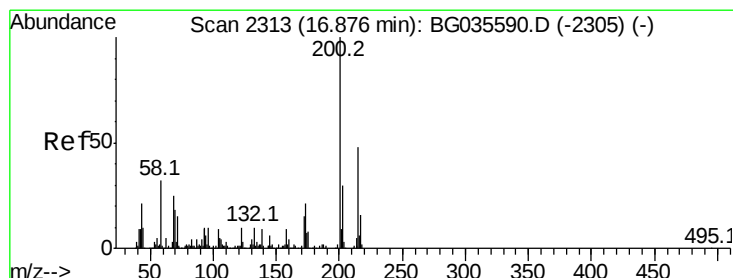
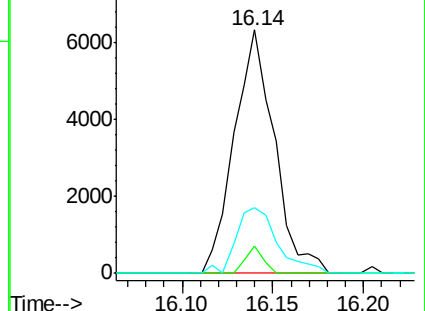
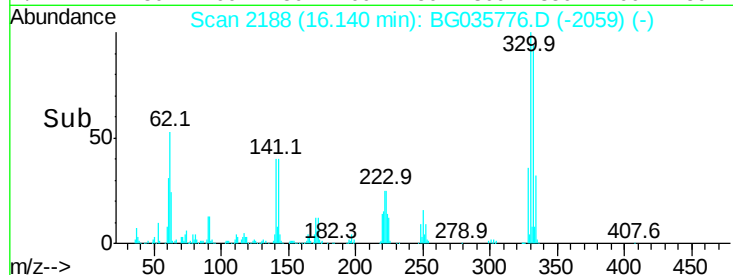
167 27.1 30.1 45.1#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#68

Atrazine

Concen: 0.032 ng

RT: 16.99 min Scan# 2332

Delta R.T. 0.13 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

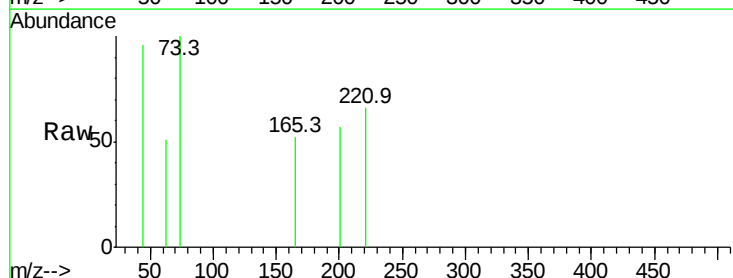
Tgt Ion:200 Resp: 117

Ion Ratio Lower Upper

200 100

173 0.0 5.2 45.2#

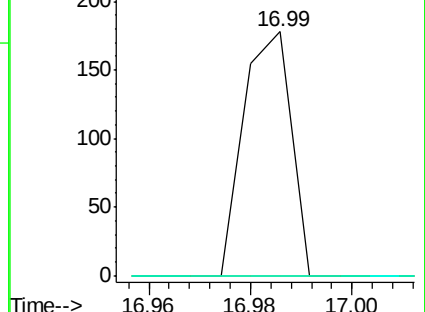
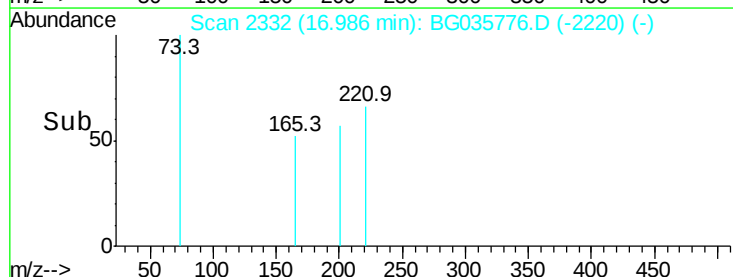
215 0.0 30.4 70.4#

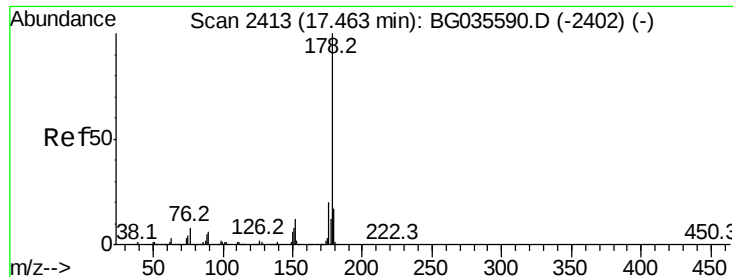


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E





#70

Phenanthrene

Concen: 0.030 ng

RT: 17.43 min Scan# 2408

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

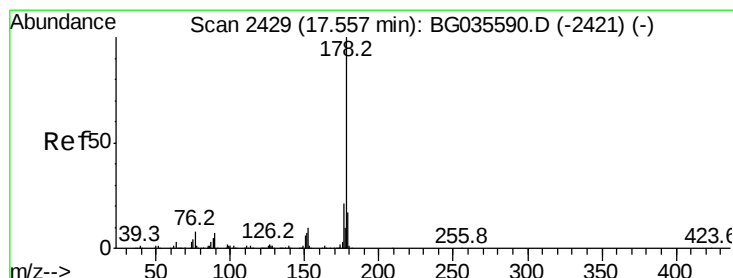
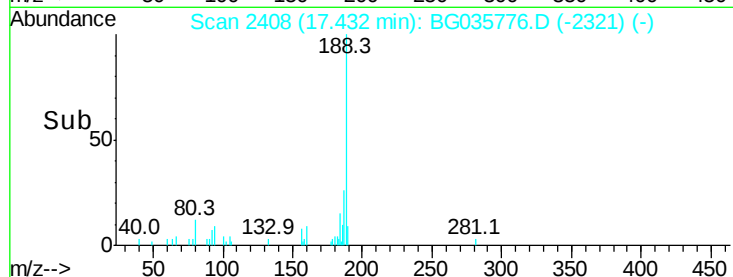
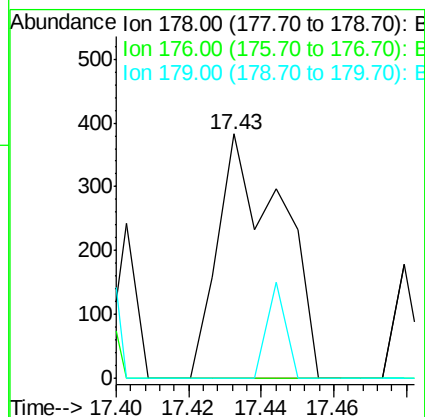
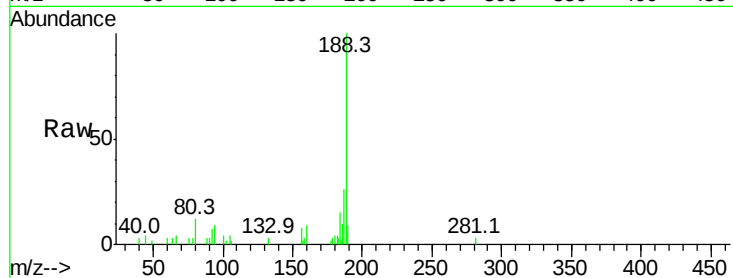
Tot Ion:178 Resp: 459

Ion Ratio Lower Upper

178 100

176 0.0 15.7 23.5#

179 0.0 12.5 18.7#



#71

Anthracene

Concen: 0.004 ng

RT: 17.48 min Scan# 2416

Delta R.T. -0.06 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

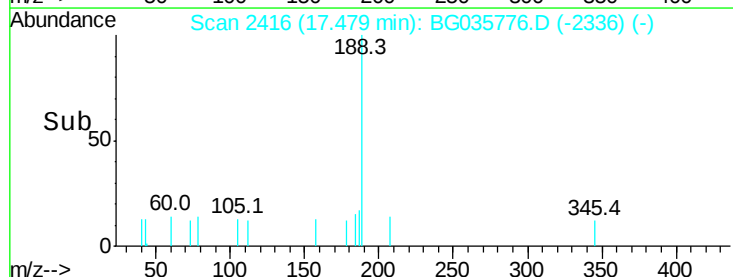
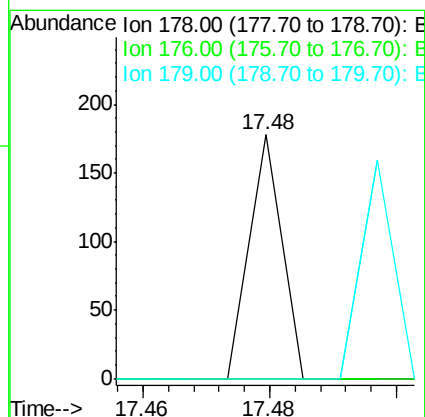
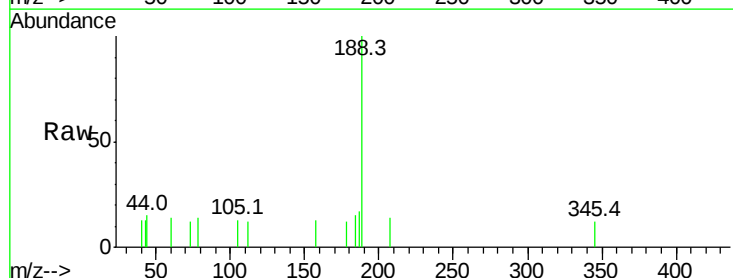
Tgt Ion:178 Resp: 63

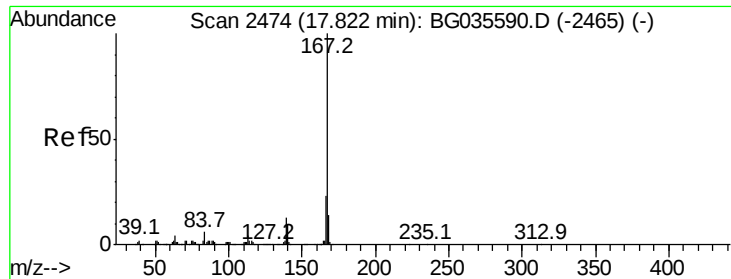
Ion Ratio Lower Upper

178 100

176 0.0 16.0 24.0#

179 0.0 12.5 18.7#





#72

Carbazole

Concen: 0.005 ng

RT: 17.87 min Scan# 2483

Delta R.T. 0.06 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

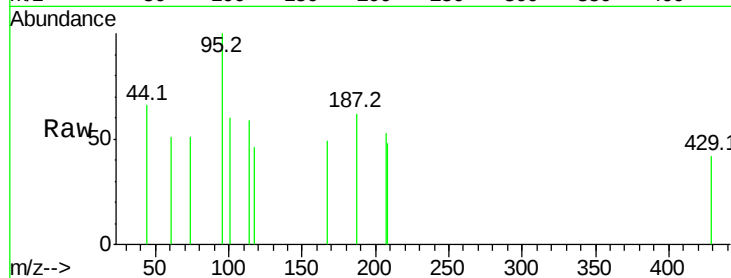
Tot Ion:167 Resp: 72

Ion Ratio Lower Upper

167 100

166 0.0 18.2 27.4#

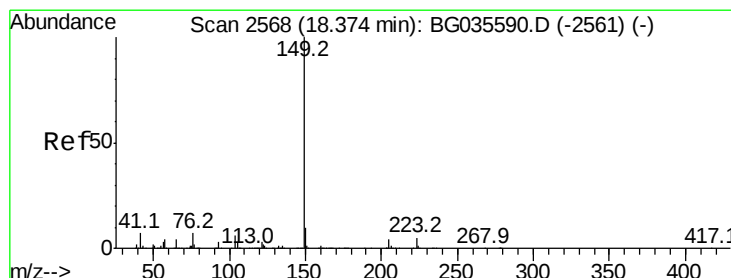
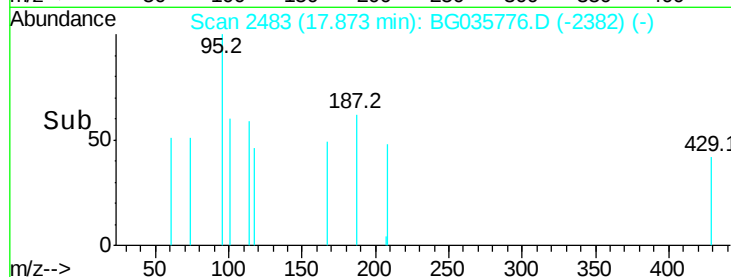
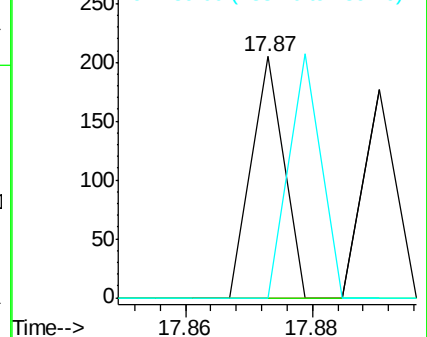
139 0.0 9.4 14.2#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 0.060 ng

RT: 18.35 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

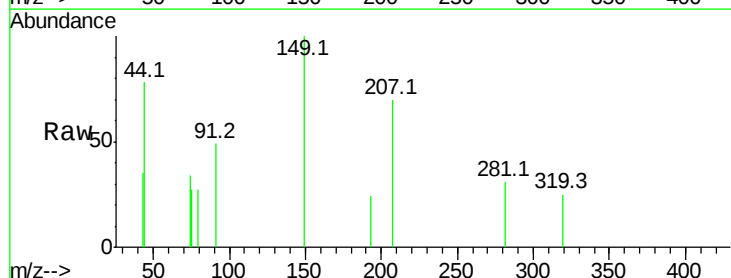
Tgt Ion:149 Resp: 1022

Ion Ratio Lower Upper

149 100

150 0.0 7.8 11.6#

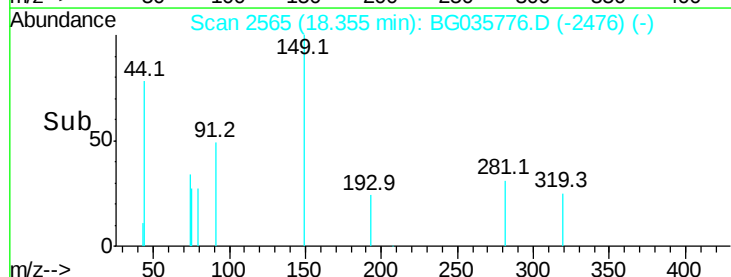
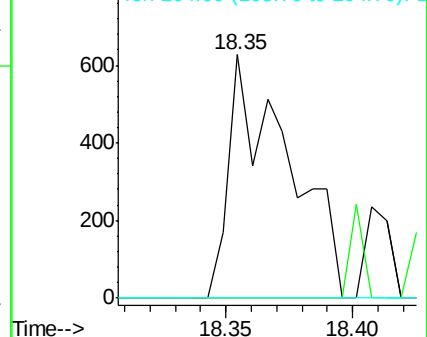
104 0.0 3.9 5.9#

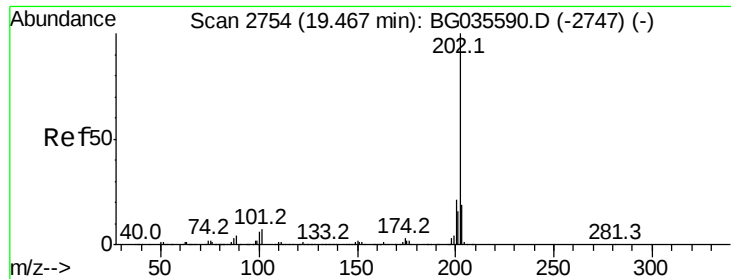


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 0.042 ng

RT: 19.47 min Scan# 2755

Delta R.T. 0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

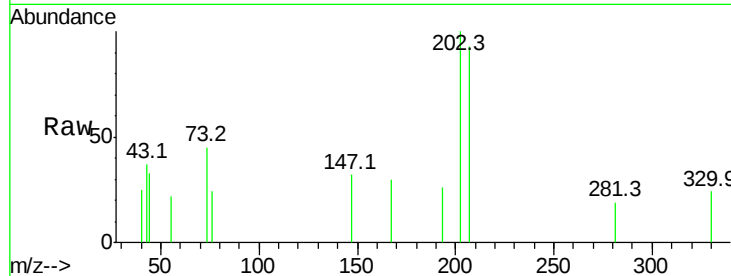
Tot Ion:202 Resp: 869

Ion Ratio Lower Upper

202 100

101 0.0 0.0 28.9

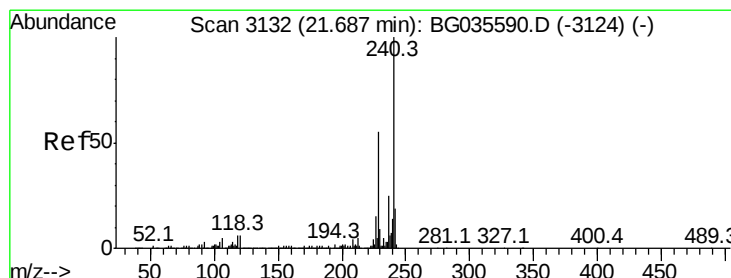
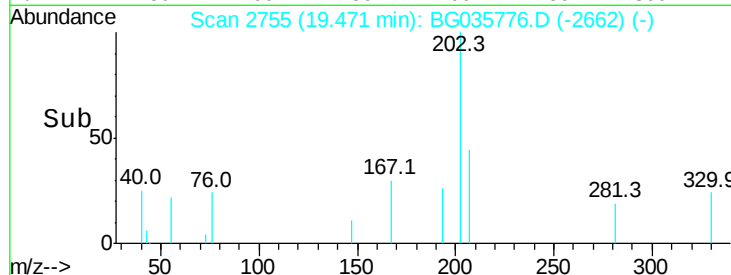
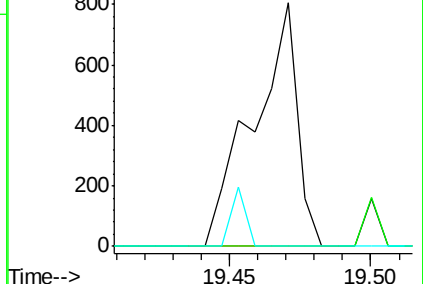
203 0.0 0.0 37.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.66 min Scan# 3127

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

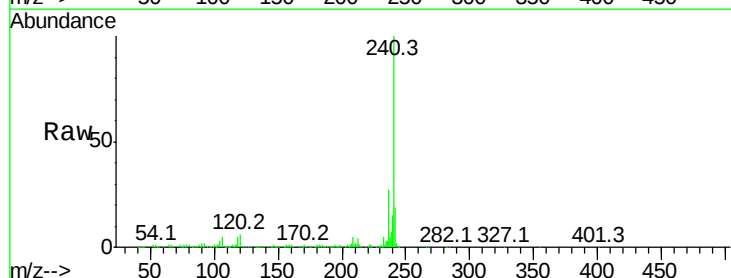
Tgt Ion:240 Resp: 346204

Ion Ratio Lower Upper

240 100

120 6.0 6.8 10.2#

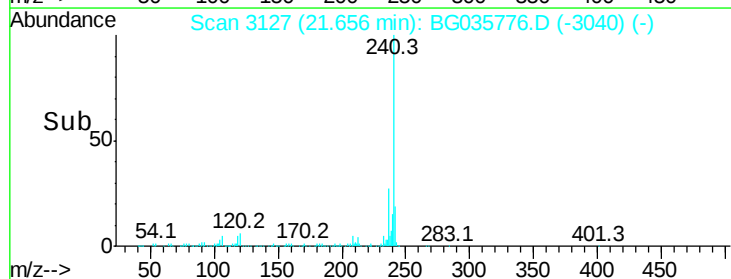
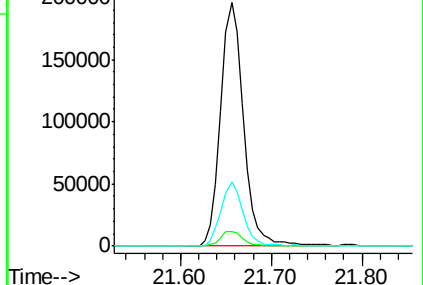
236 26.6 20.9 31.3

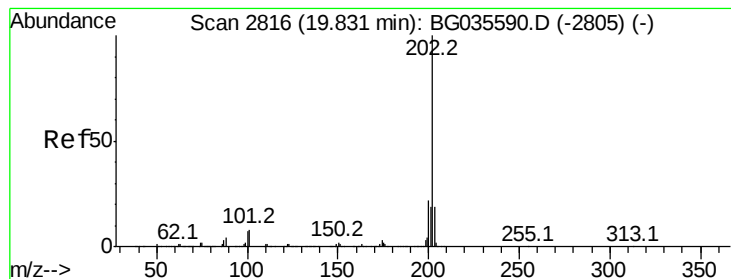


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 0.034 ng

RT: 19.82 min Scan# 2814

Delta R.T. 0.00 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

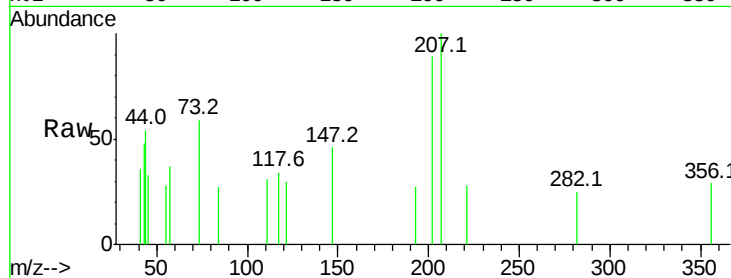
Tot Ion:202 Resp: 755

Ion Ratio Lower Upper

202 100

200 0.0 16.9 25.3#

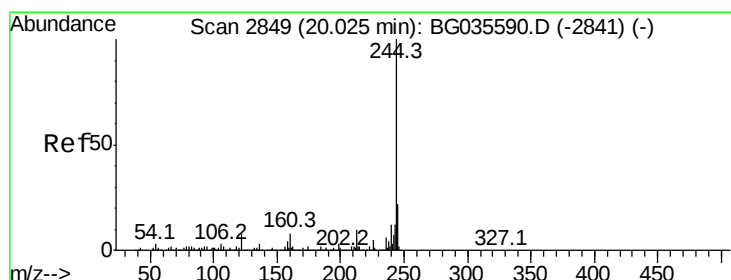
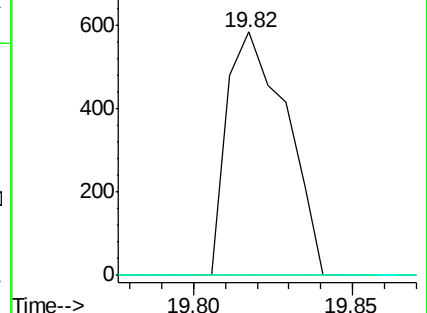
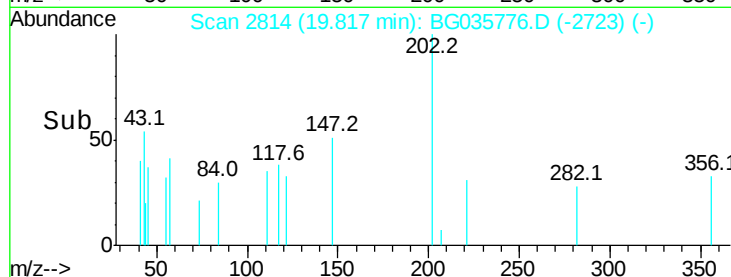
203 0.0 13.9 20.9#



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: 108.147 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

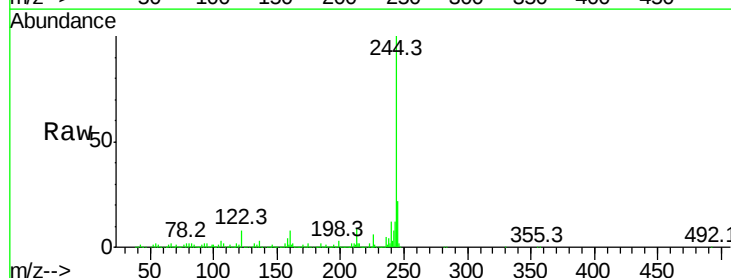
Tgt Ion:244 Resp: 1698537

Ion Ratio Lower Upper

244 100

212 9.2 5.8 8.8#

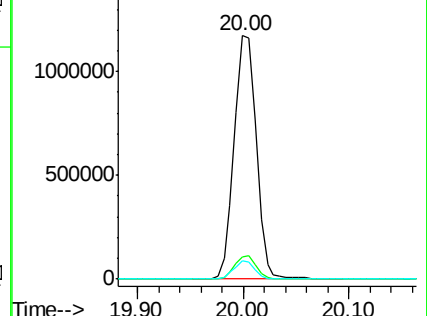
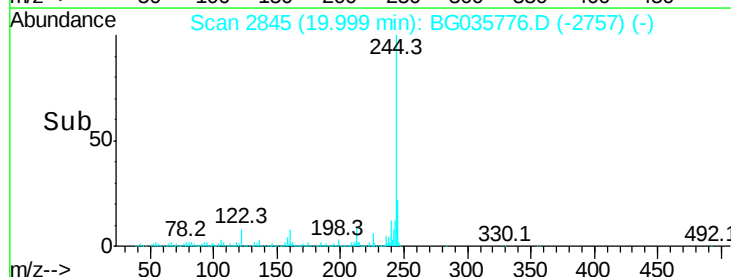
122 7.7 7.0 10.4

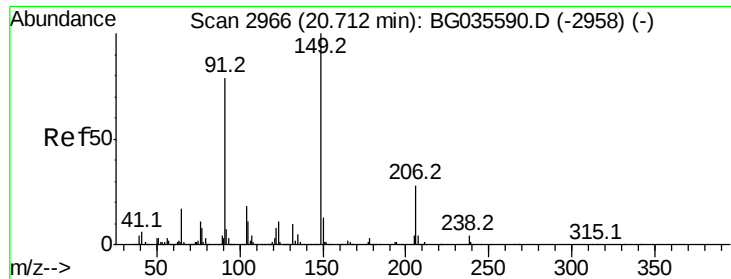


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

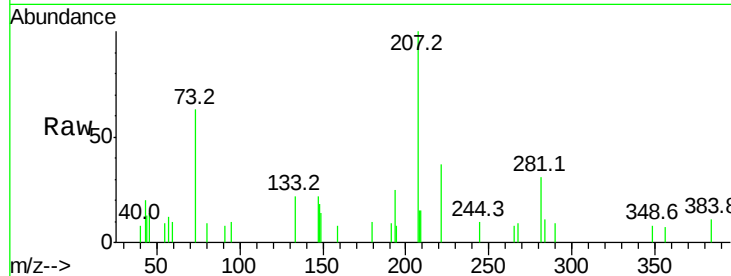




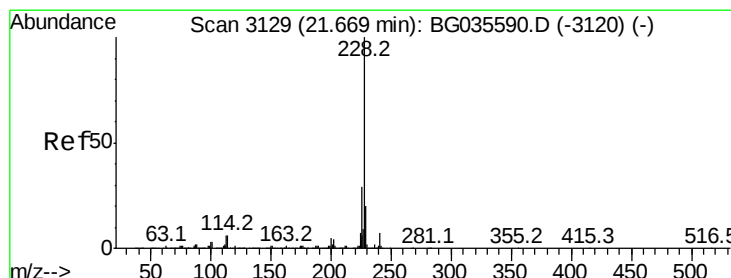
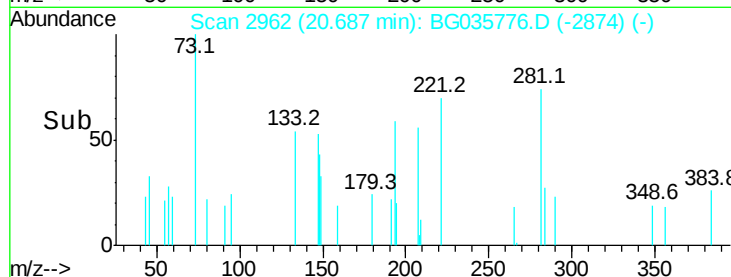
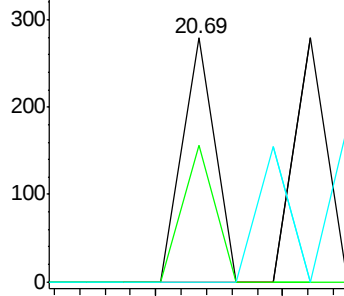
#79  
 Butylbenzylphthalate  
 Concen: 0.013 ng  
 RT: 20.69 min Scan# 2962  
 Delta R.T. -0.01 min  
 Lab File: BG035776.D  
 Acq: 20 Jul 2018 9:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SOIL-3

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 149   | Resp: | 98    |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 91       | 56.3  | 62.2  | 93.2# |
| 206      | 0.0   | 18.6  | 27.8# |

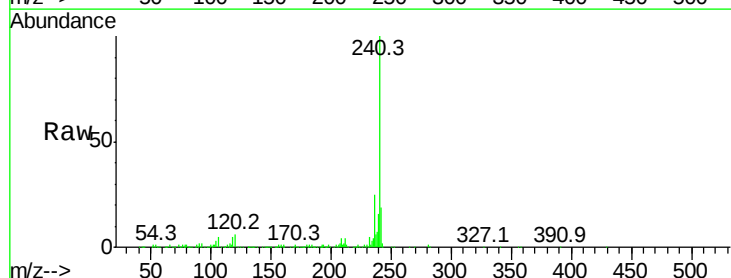


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 91.00 (90.70 to 91.70): BGC  
 Ion 206.00 (205.70 to 206.70): E

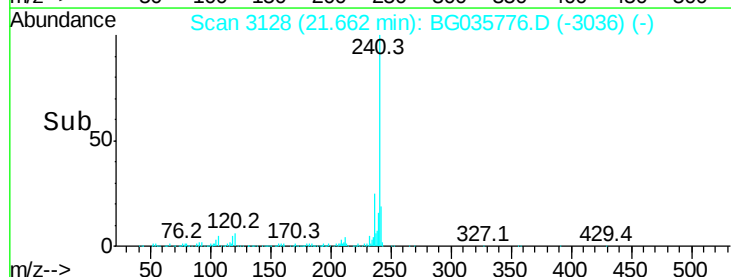
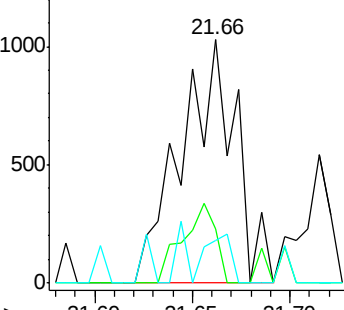


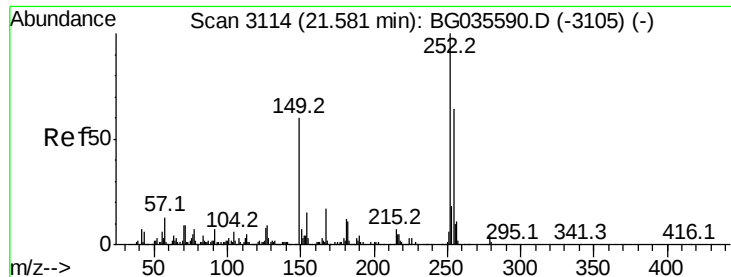
#80  
 Benzo(a)anthracene  
 Concen: 0.092 ng  
 RT: 21.66 min Scan# 3128  
 Delta R.T. 0.01 min  
 Lab File: BG035776.D  
 Acq: 20 Jul 2018 9:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 1986  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 22.3  | 22.7  | 34.1# |
| 229      | 17.4  | 16.2  | 24.2  |



Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E

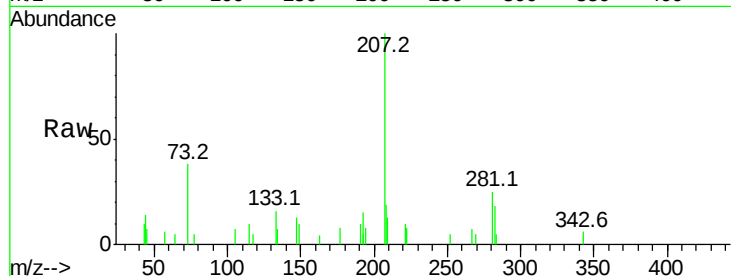




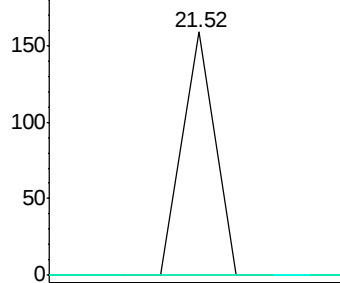
#81  
 3,3'-Dichlorobenzidine  
 Concen: 0.007 ng  
 RT: 21.52 min Scan# 3103  
 Delta R.T. -0.05 min  
 Lab File: BG035776.D  
 Acq: 20 Jul 2018 9:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LS-SOIL-3

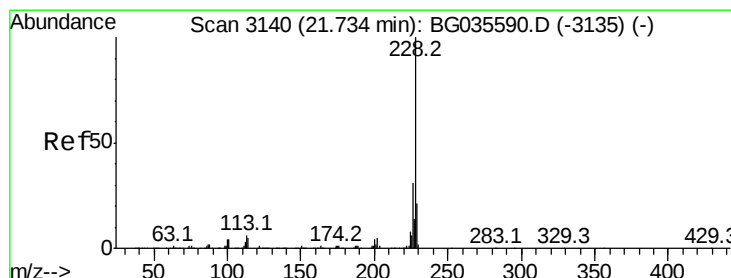
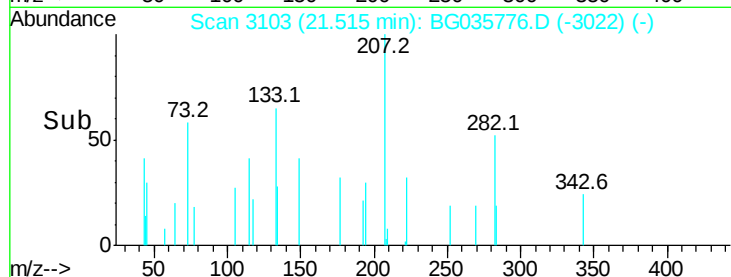
Tot Ion:252 Resp: 56  
 Ion Ratio Lower Upper  
 252 100  
 254 0.0 50.8 76.2#  
 126 0.0 7.4 11.2#



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

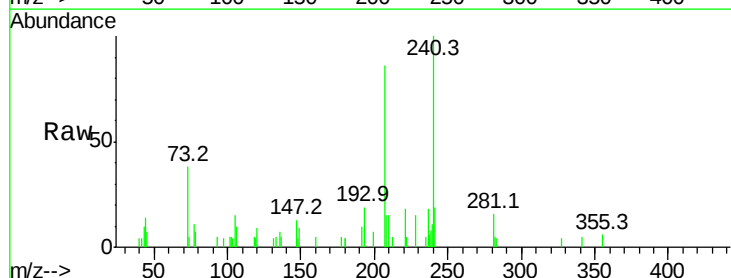


Time-->

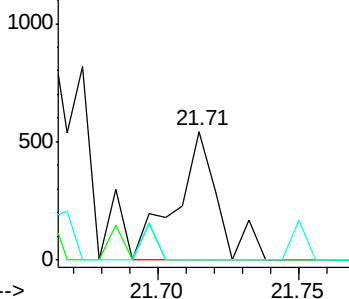


#82  
 Chrysene  
 Concen: 0.028 ng  
 RT: 21.71 min Scan# 3137  
 Delta R.T. -0.01 min  
 Lab File: BG035776.D  
 Acq: 20 Jul 2018 9:07

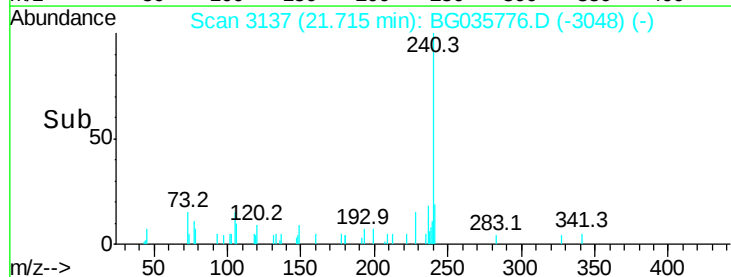
Tgt Ion:228 Resp: 566  
 Ion Ratio Lower Upper  
 228 100  
 226 0.0 24.9 37.3#  
 229 0.0 15.0 22.4#

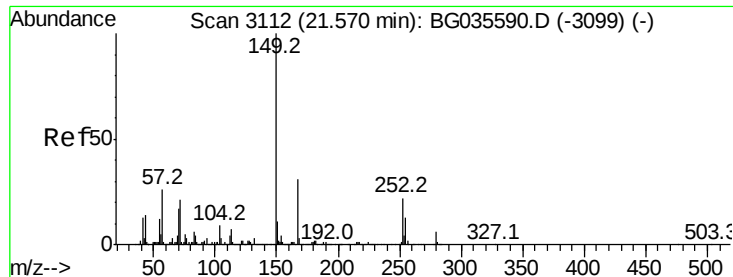


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 226.00 (225.70 to 226.70): E  
 Ion 229.00 (228.70 to 229.70): E



Time-->

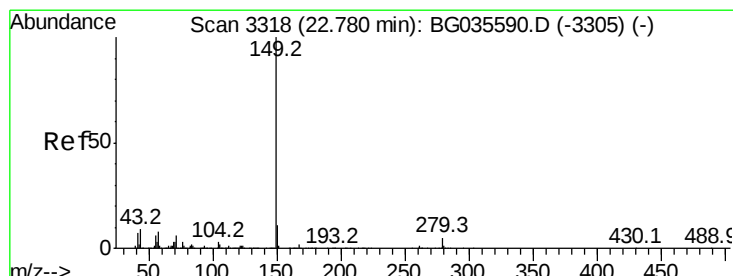
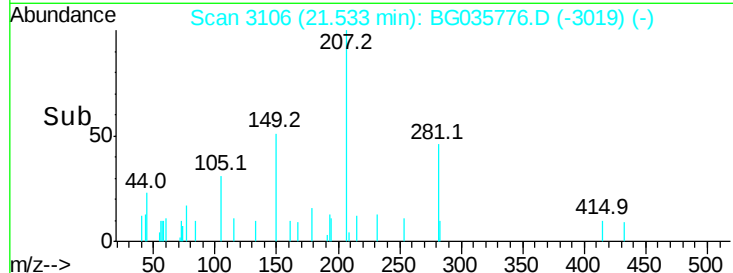
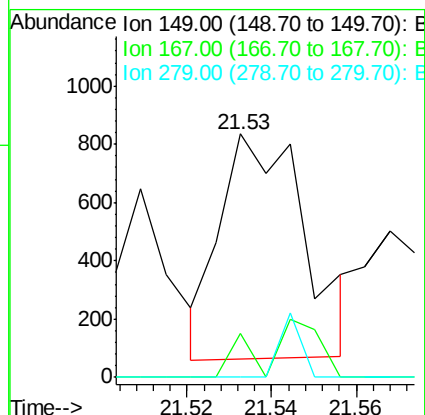
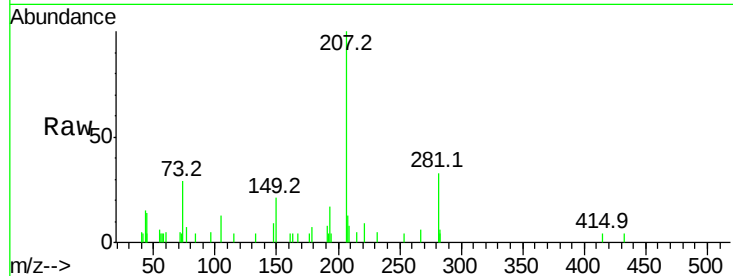




#83  
Bis(2-ethylhexyl)phthalate  
Concen: 0.100 ng  
RT: 21.53 min Scan# 3106  
Delta R.T. -0.02 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

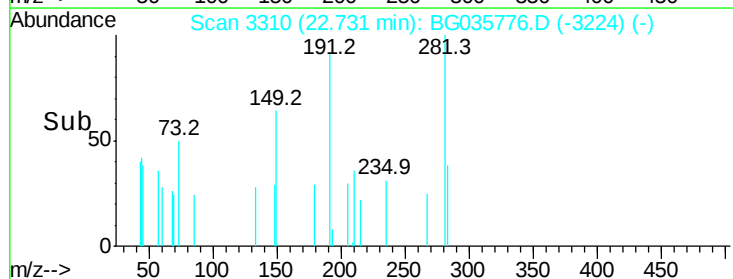
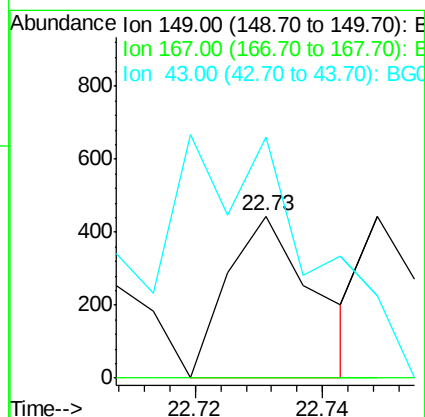
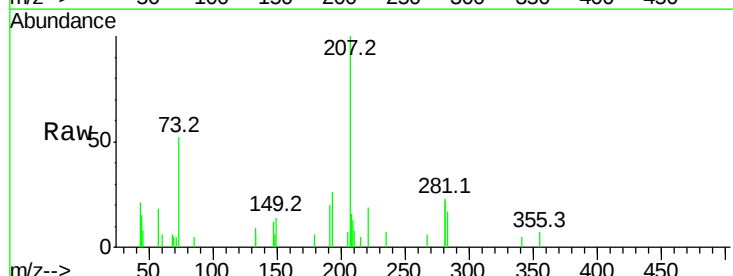
Instrument :  
BNA\_G  
ClientSampleId :  
LS-SOIL-3

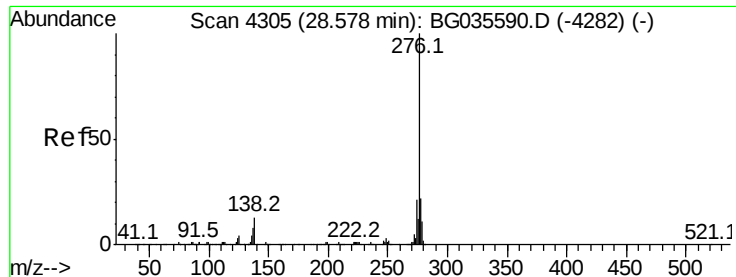
Tot Ion:149 Resp: 1068  
Ion Ratio Lower Upper  
149 100  
167 18.2 24.3 36.5#  
279 0.0 4.0 6.0#



#84  
Di-n-octyl phthalate  
Concen: 0.024 ng  
RT: 22.73 min Scan# 3310  
Delta R.T. -0.02 min  
Lab File: BG035776.D  
Acq: 20 Jul 2018 9:07

Tgt Ion:149 Resp: 419  
Ion Ratio Lower Upper  
149 100  
167 0.0 1.4 2.0#  
43 269.0 8.9 13.3#





#85

Indeno(1,2,3-cd)pyrene

Concen: 0.002 ng

RT: 28.60 min Scan# 4309

Delta R.T. 0.06 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

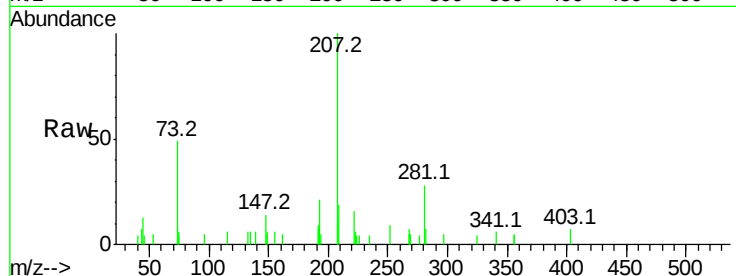
Tot Ion:276 Resp: 54

Ion Ratio Lower Upper

276 100

138 0.0 16.0 24.0#

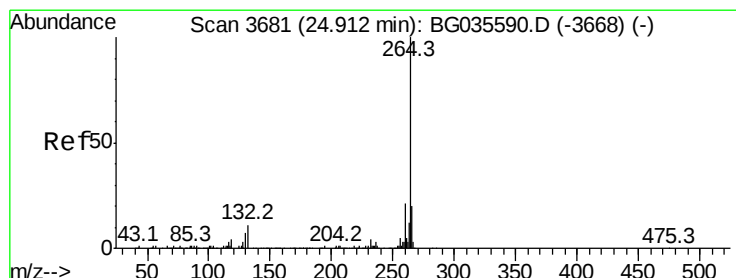
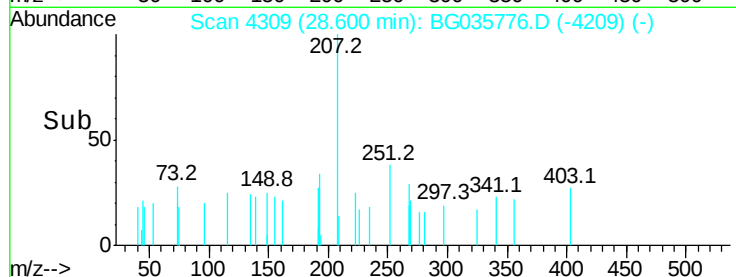
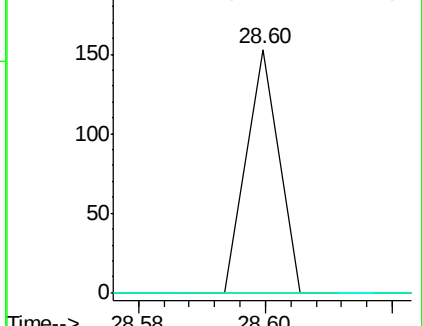
277 0.0 20.0 30.0#



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: 24.86 min Scan# 3672

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

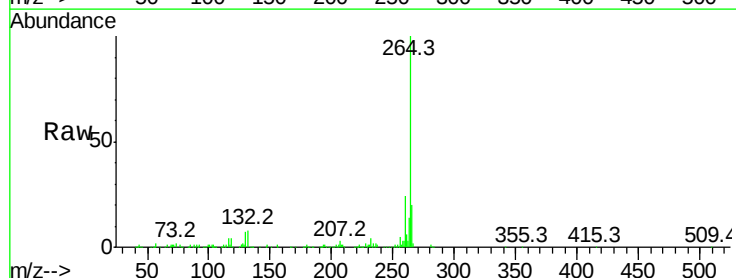
Tgt Ion:264 Resp: 329169

Ion Ratio Lower Upper

264 100

260 24.4 17.4 26.0

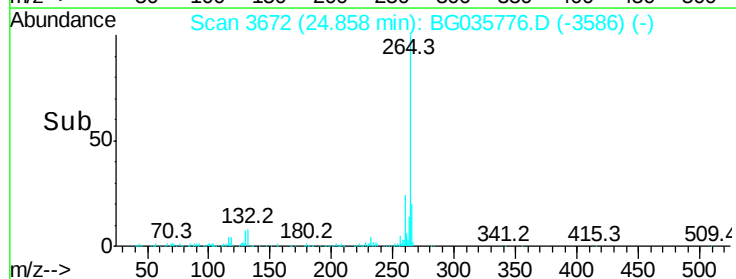
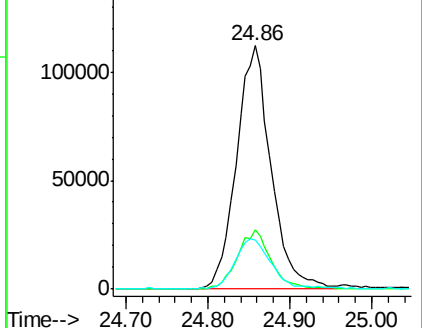
265 20.0 17.7 26.5

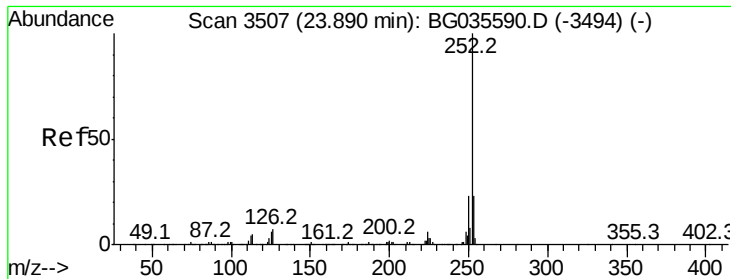


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 0.003 ng

RT: 23.83 min Scan# 3497

Delta R.T. -0.04 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampled :

LS-SOIL-3

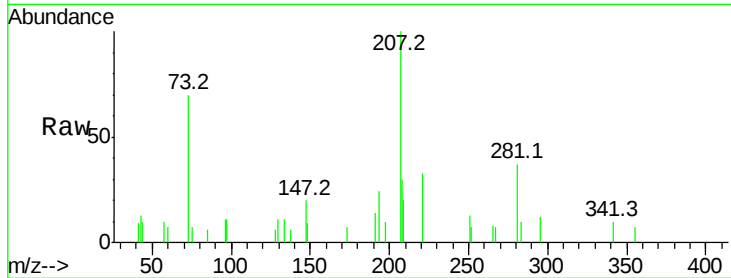
Tot Ion:252 Resp: 62

Ion Ratio Lower Upper

252 100

253 0.0 18.2 27.4#

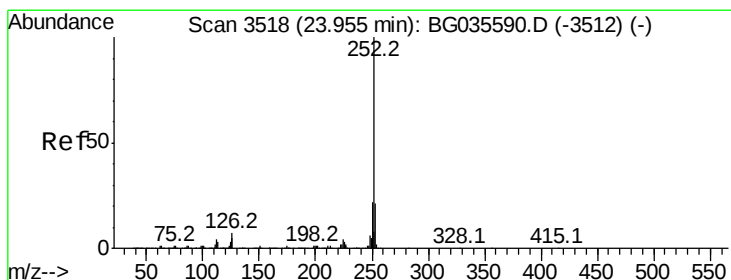
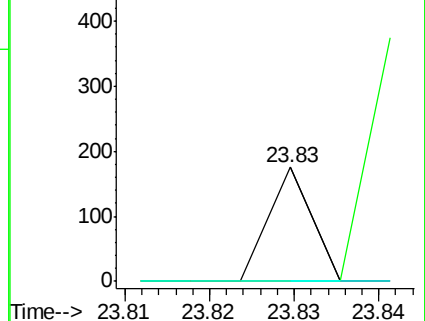
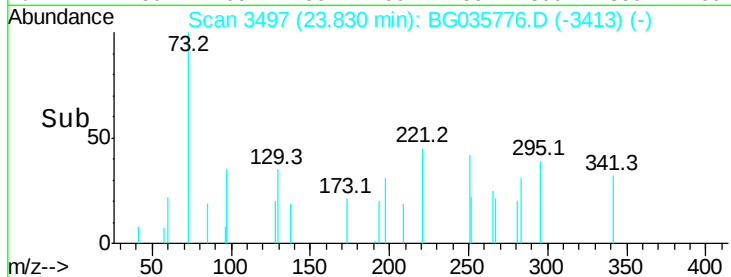
125 0.0 7.2 10.8#



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: 0.047 ng

RT: 23.92 min Scan# 3513

Delta R.T. -0.01 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

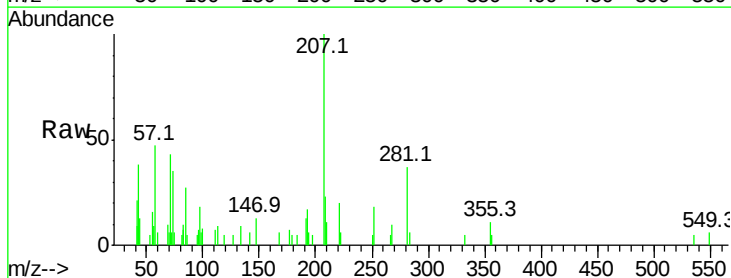
Tgt Ion:252 Resp: 929

Ion Ratio Lower Upper

252 100

253 0.0 17.4 26.2#

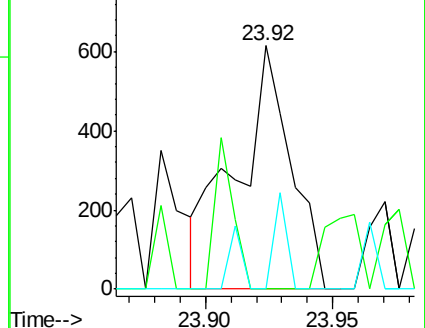
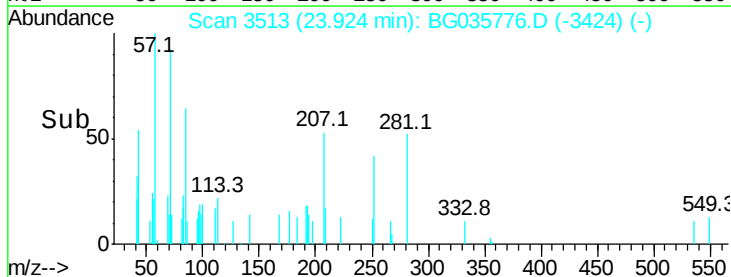
125 0.0 6.6 9.8#

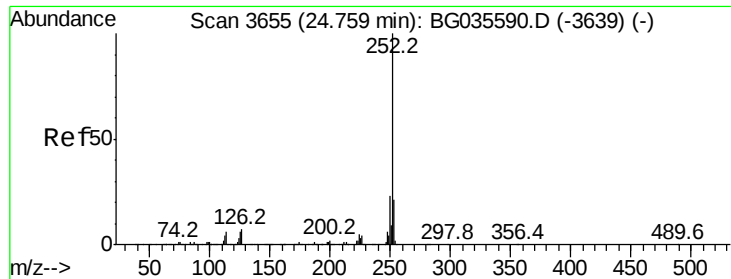


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 0.015 ng

RT: 24.71 min Scan# 3647

Delta R.T. -0.02 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

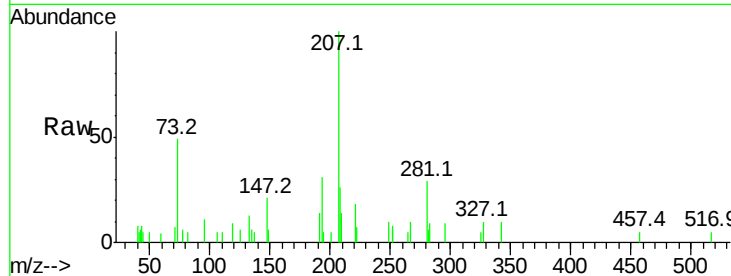
Tot Ion:252 Resp: 282

Ion Ratio Lower Upper

252 100

253 0.0 18.3 27.5#

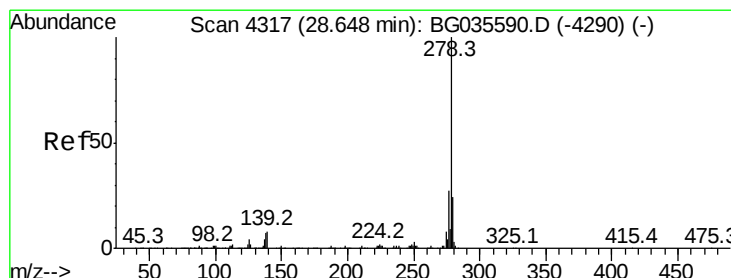
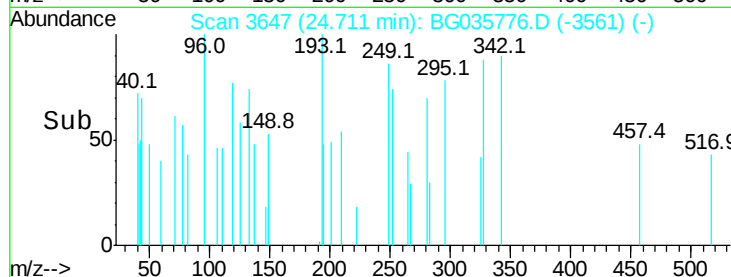
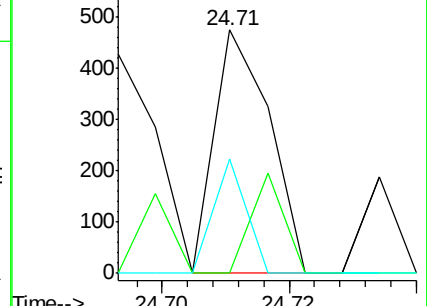
125 46.8 7.3 10.9#



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



#90

Dibenzo(a,h)anthracene

Concen: 0.003 ng

RT: 28.75 min Scan# 4335

Delta R.T. 0.15 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

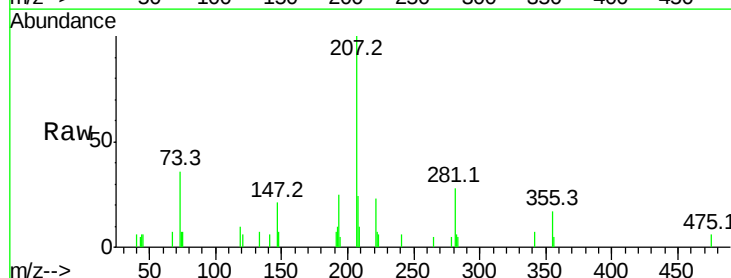
Tgt Ion:278 Resp: 54

Ion Ratio Lower Upper

278 100

139 0.0 9.8 14.6#

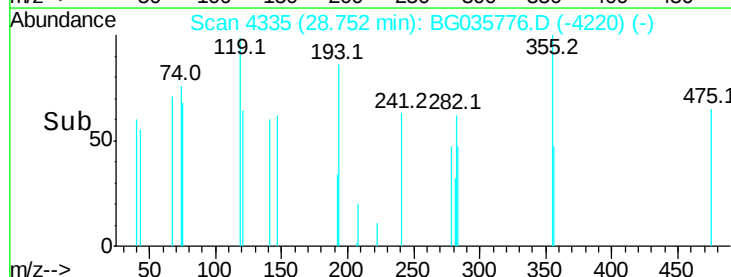
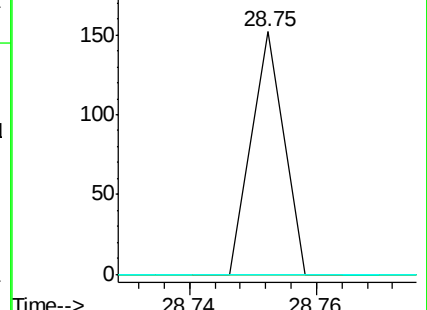
279 0.0 18.4 27.6#

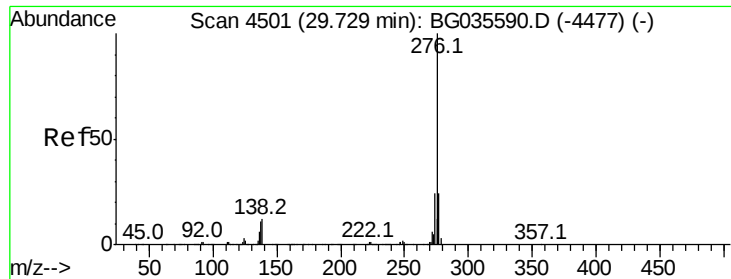


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 0.004 ng

RT: 29.83 min Scan# 4519

Delta R.T. 0.15 min

Lab File: BG035776.D

Acq: 20 Jul 2018 9:07

Instrument :

BNA\_G

ClientSampleId :

LS-SOIL-3

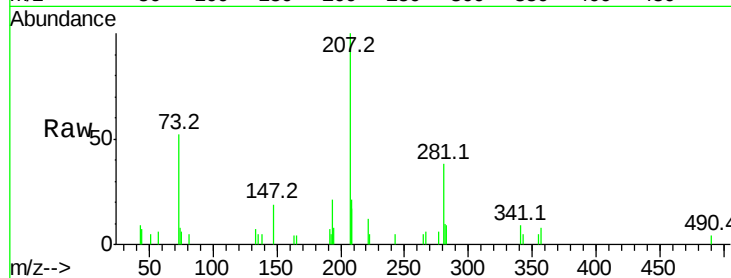
Tot Ion:276 Resp: 72

Ion Ratio Lower Upper

276 100

277 0.0 18.3 27.5#

138 92.6 13.9 20.9#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

