

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072018\  
 Data File : BF107538.D  
 Acq On : 20 Jul 2018 21:51  
 Operator : JU/SJ  
 Sample : J4057-13  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

Quant Time: Jul 20 22:48:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 321617   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 1251071  | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 538738   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.51 | 188  | 953280   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 676302   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.69 | 264  | 793108   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |       |    |       |
|--------------------------|-------|-----|---------|-------|----|-------|
| 5) 2-Fluorophenol        | 5.61  | 112 | 1658689 | 82.92 | ng | 0.00  |
| 7) Phenol-d6             | 6.60  | 99  | 2014369 | 83.87 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 7.54  | 82  | 1223814 | 66.02 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 10.81 | 330 | 517835  | 84.53 | ng | -0.01 |
| 44) 2-Fluorobiphenyl     | 9.33  | 172 | 2022030 | 58.82 | ng | 0.00  |
| 78) Terphenyl-d14        | 13.09 | 244 | 1529218 | 57.89 | ng | -0.01 |

## Target Compounds

|                                |      |     |         |        |    | Qvalue |
|--------------------------------|------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.89 | 88  | 524     | 0.056  | ng | # 31   |
| 3) Pyridine                    | 3.61 | 79  | 109     | 0.004  | ng | # 1    |
| 4) n-Nitrosodimethylamine      | 3.61 | 42  | 795     | 0.074  | ng | # 1    |
| 6) Aniline                     | 6.66 | 93  | 988     | 0.032  | ng | # 1    |
| 8) 2-Chlorophenol              | 6.76 | 128 | 199     | 0.009  | ng | # 1    |
| 9) Benzaldehyde                | 6.74 | 77  | 35952   | 0.454  | ng | 88     |
| 10) Phenol                     | 6.61 | 94  | 84014   | 2.974  | ng | # 49   |
| 11) bis(2-Chloroethyl)ether    | 6.74 | 93  | 2224    | 0.095  | ng | # 1    |
| 12) 1,3-Dichlorobenzene        | 7.00 | 146 | 442     | 0.018  | ng | # 1    |
| 13) 1,4-Dichlorobenzene        | 7.00 | 146 | 442     | 0.018  | ng | # 68   |
| 14) 1,2-Dichlorobenzene        | 7.12 | 146 | 653     | 0.029  | ng | # 1    |
| 15) Benzyl Alcohol             | 7.12 | 79  | 21339   | 1.304  | ng | # 50   |
| 16) 2,2'-oxybis(1-Chloropropan | 7.22 | 45  | 669     | 0.017  | ng | 70     |
| 17) 2-Methylphenol             | 7.30 | 107 | 116     | 0.006  | ng | # 1    |
| 18) Hexachloroethane           | 7.50 | 117 | 139     | 0.016  | ng | # 48   |
| 19) n-Nitroso-di-n-propylamine | 7.54 | 70  | 163296  | 10.524 | ng | # 79   |
| 20) 3+4-Methylphenols          | 7.43 | 107 | 110     | 0.005  | ng | # 20   |
| 22) Acetophenone               | 7.39 | 105 | 3663    | 0.125  | ng | # 59   |
| 24) Nitrobenzene               | 7.58 | 77  | 372     | 0.018  | ng | # 38   |
| 25) Isophorone                 | 7.54 | 82  | 1223808 | 30.919 | ng | # 64   |
| 27) 2,4-Dimethylphenol         | 8.05 | 122 | 180     | 0.011  | ng | # 50   |
| 28) bis(2-Chloroethoxy)methane | 8.08 | 93  | 142     | 0.005  | ng | # 49   |
| 31) Naphthalene                | 8.28 | 128 | 28626   | 0.520  | ng | 97     |
| 32) Benzoic acid               | 8.05 | 122 | 180     | 7.912  | ng | # 1    |
| 33) 4-Chloroaniline            | 8.33 | 127 | 214     | 0.009  | ng | # 46   |
| 35) Caprolactam                | 8.97 | 113 | 109     | 0.019  | ng | # 1    |
| 36) 4-Chloro-3-methylphenol    | 8.80 | 107 | 112     | 0.006  | ng | # 20   |
| 37) 2-Methylnaphthalene        | 9.07 | 142 | 3598    | 0.094  | ng | 91     |
| 45) 1,1'-Biphenyl              | 9.43 | 154 | 5552    | 0.118  | ng | 89     |
| 46) 2-Chloronaphthalene        | 9.72 | 162 | 1600    | 0.045  | ng | # 1    |
| 47) 2-Nitroaniline             | 9.55 | 65  | 475     | 0.045  | ng | # 35   |
| 48) Acenaphthylene             | 9.88 | 152 | 4975    | 0.092  | ng | # 94   |
| 49) Dimethylphthalate          | 9.72 | 163 | 180424  | 4.444  | ng | 100    |
| 50) 2,6-Dinitrotoluene         | 9.72 | 165 | 2469    | 0.306  | ng | # 16   |

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 Sample : J4057-13  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

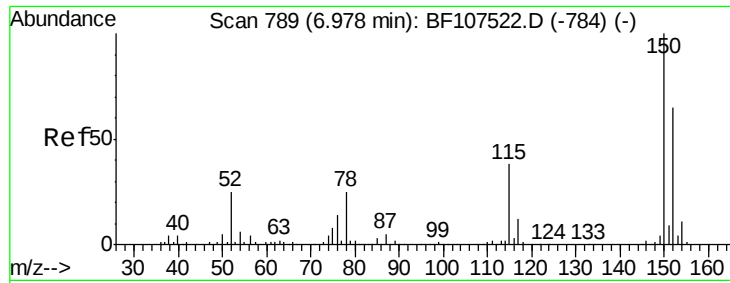
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

Quant Time: Jul 20 22:48:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
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| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 51) Acenaphthene               | 10.05 | 154  | 6862     | 0.203     | ng    | 88       |
| 52) 3-Nitroaniline             | 9.98  | 138  | 304      | 0.031     | ng #  | 76       |
| 54) Dibenzofuran               | 10.22 | 168  | 9045     | 0.182     | ng    | 94       |
| 55) 4-Nitrophenol              | 10.15 | 139  | 837      | 0.114     | ng #  | 14       |
| 56) 2,4-Dinitrotoluene         | 10.01 | 165  | 72737    | 7.475     | ng #  | 23       |
| 57) Fluorene                   | 10.57 | 166  | 7323     | 0.207     | ng #  | 86       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.45 | 232  | 150      | 0.015     | ng #  | 1        |
| 59) Diethylphthalate           | 10.42 | 149  | 2352     | 0.055     | ng #  | 67       |
| 60) 4-Chlorophenyl-phenylether | 10.55 | 204  | 109      | 0.005     | ng #  | 3        |
| 61) 4-Nitroaniline             | 10.60 | 138  | 1321     | 0.160     | ng #  | 31       |
| 62) Azobenzene                 | 10.71 | 77   | 1186     | 0.030     | ng #  | 37       |
| 64) 4,6-Dinitro-2-methylphenol | 10.81 | 198  | 1149     | 8.885     | ng #  | 1        |
| 65) n-Nitrosodiphenylamine     | 10.67 | 169  | 535      | 0.017     | ng #  | 15       |
| 66) 4-Bromophenyl-phenylether  | 10.81 | 248  | 31459    | 2.803     | ng #  | 1        |
| 68) Atrazine                   | 11.16 | 200  | 111      | 0.011     | ng #  | 1        |
| 70) Phenanthrene               | 11.53 | 178  | 22167    | 0.477     | ng    | 97       |
| 71) Anthracene                 | 11.58 | 178  | 9834     | 0.210     | ng #  | 88       |
| 72) Carbazole                  | 11.74 | 167  | 3855     | 0.079     | ng #  | 29       |
| 73) Di-n-butylphthalate        | 12.05 | 149  | 7715     | Below Cal | #     | 78       |
| 74) Fluoranthene               | 12.72 | 202  | 49380    | 0.991     | ng    | 95       |
| 76) Benzidine                  | 12.81 | 184  | 629      | 0.032     | ng #  | 1        |
| 77) Pyrene                     | 12.95 | 202  | 53475    | 1.156     | ng    | 97       |
| 79) Butylbenzylphthalate       | 13.56 | 149  | 4533     | 0.228     | ng #  | 1        |
| 80) Benzo(a)anthracene         | 14.14 | 228  | 23107    | 0.583     | ng #  | 92       |
| 81) 3,3'-Dichlorobenzidine     | 14.11 | 252  | 341      | Below Cal | #     | 56       |
| 82) Chrysene                   | 14.18 | 228  | 20863    | 0.548     | ng #  | 91       |
| 83) Bis(2-ethylhexyl)phthalate | 14.11 | 149  | 8185     | 0.292     | ng #  | 79       |
| 84) Di-n-octyl phthalate       | 14.72 | 149  | 1500     | 0.034     | ng #  | 75       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.24 | 276  | 14284    | 0.443     | ng #  | 81       |
| 87) Benzo(b)fluoranthene       | 15.23 | 252  | 37609    | 0.866     | ng #  | 64       |
| 88) Benzo(k)fluoranthene       | 15.23 | 252  | 37609    | 0.884     | ng #  | 67       |
| 89) Benzo(a)pyrene             | 15.62 | 252  | 18555    | 0.467     | ng #  | 76       |
| 90) Dibenzo(a,h)anthracene     | 17.26 | 278  | 5636     | 0.164     | ng #  | 1        |
| 91) Benzo(g,h,i)perylene       | 17.73 | 276  | 15214    | 0.449     | ng    | 92       |

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



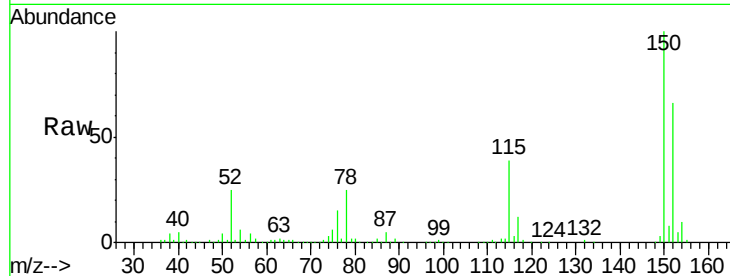


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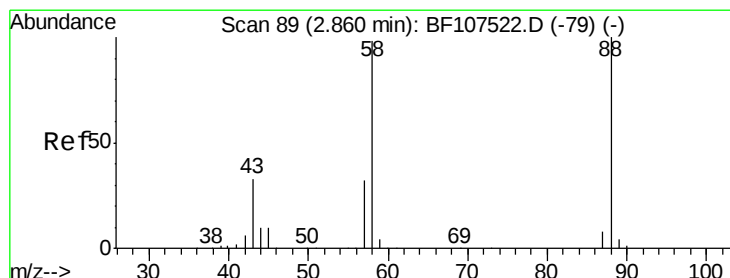
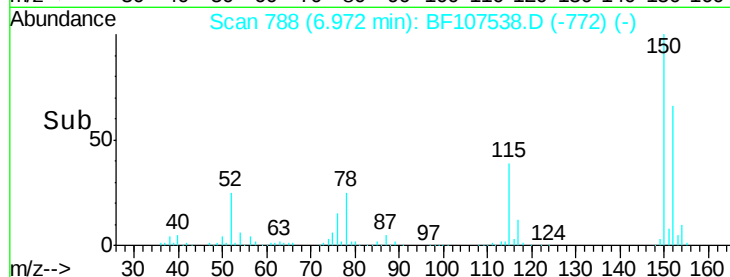
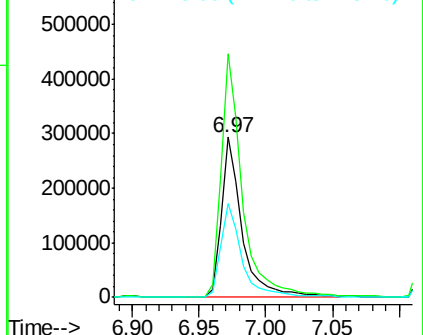
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 788  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

Tgt Ion: 152 Resp: 321617  
Ion Ratio Lower Upper  
152 100  
150 152.2 124.6 186.8  
115 58.9 50.1 75.1



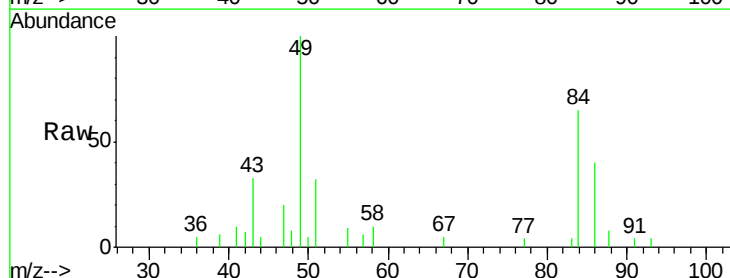
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



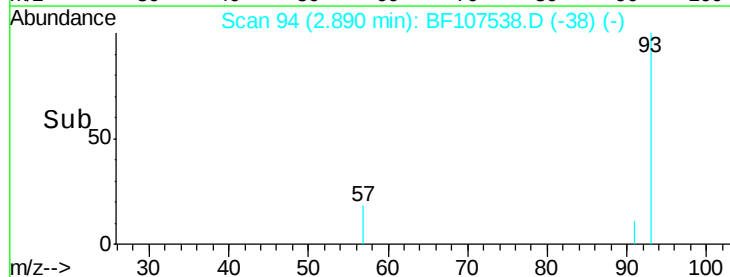
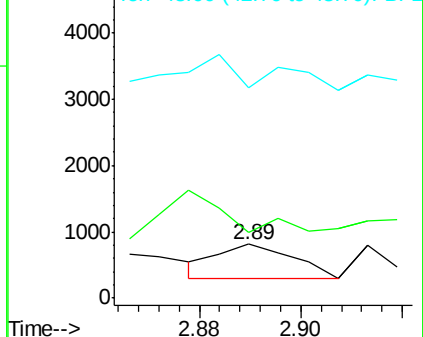
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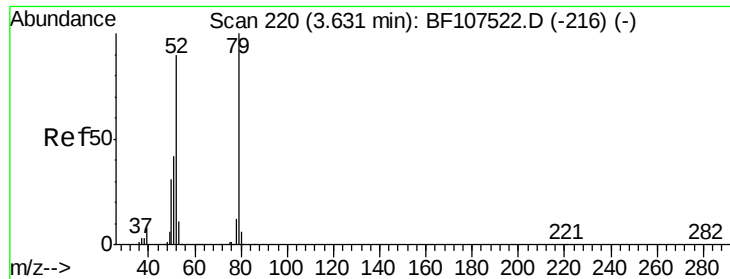
1,4-Dioxane  
Concen: 0.056 ng  
RT: 2.89 min Scan# 94  
Delta R.T. 0.03 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion: 88 Resp: 524  
Ion Ratio Lower Upper  
88 100  
58 142.6 62.6 93.8#  
43 0.0 24.6 37.0#



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

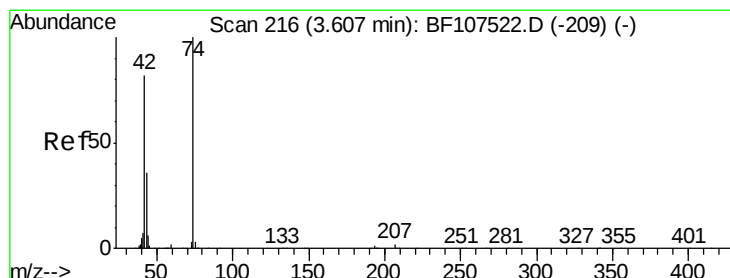
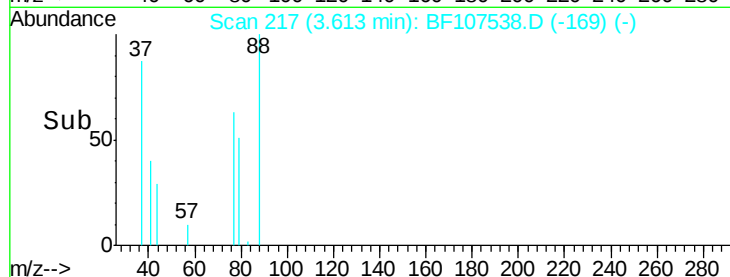
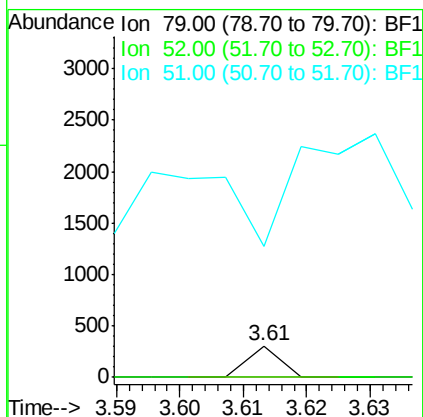
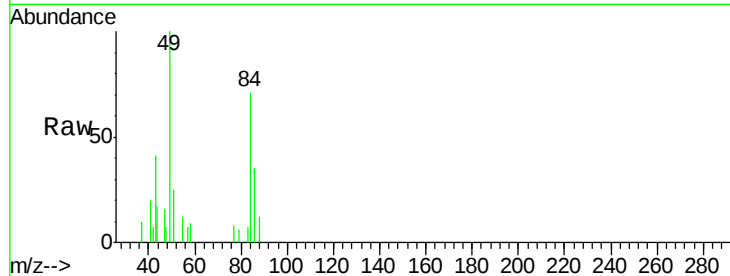




#3  
 Pyridine  
 Concen: 0.004 ng  
 RT: 3.61 min Scan# 217  
 Delta R.T. -0.02 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

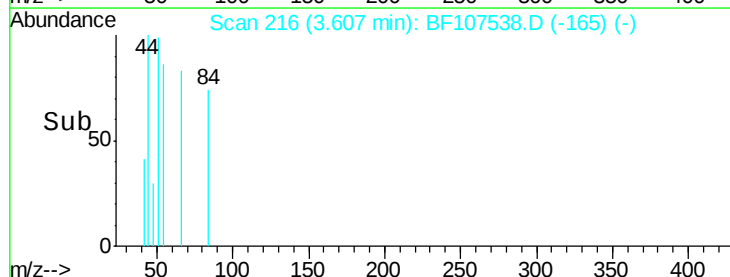
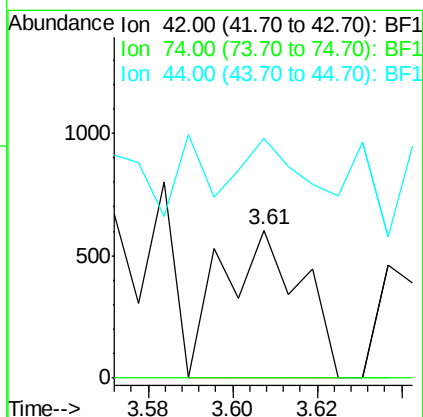
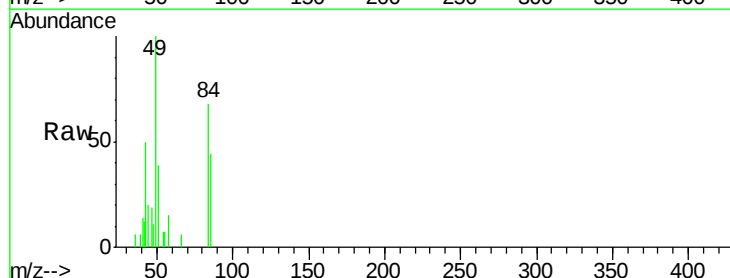
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

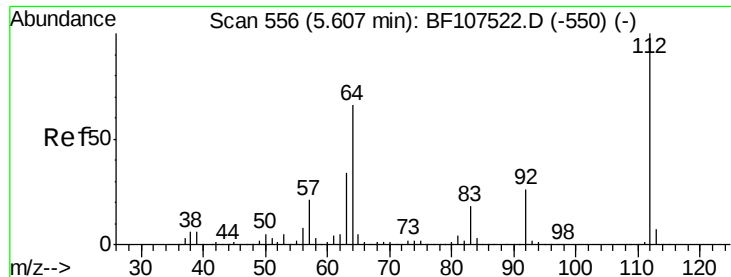
Tgt Ion: 79 Resp: 109  
 Ion Ratio Lower Upper  
 79 100  
 52 0.0 59.8 89.6#  
 51 411.7 29.8 44.8#



#4  
 n-Nitrosodimethylamine  
 Concen: 0.074 ng  
 RT: 3.61 min Scan# 216  
 Delta R.T. -0.00 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion: 42 Resp: 795  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 104.9 157.3#  
 44 161.5 6.9 10.3#

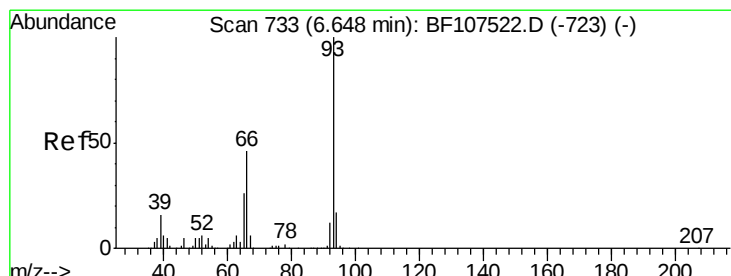
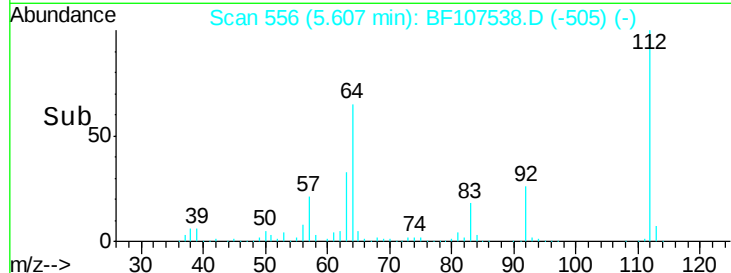
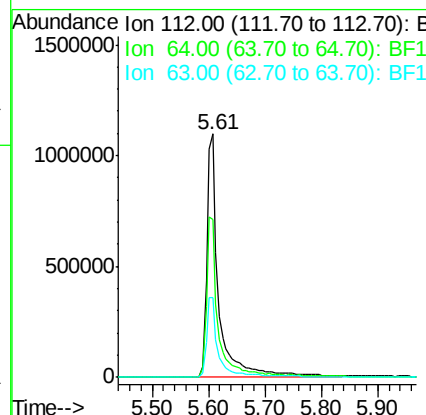
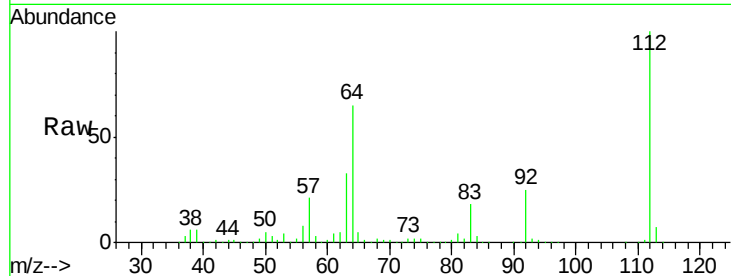




#5  
 2-Fluorophenol  
 Concen: 82.920 ng  
 RT: 5.61 min Scan# 556  
 Delta R.T. 0.00 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

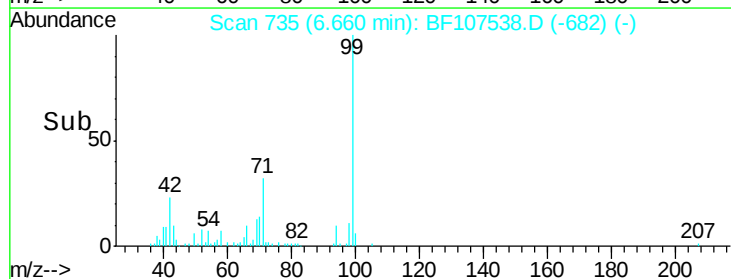
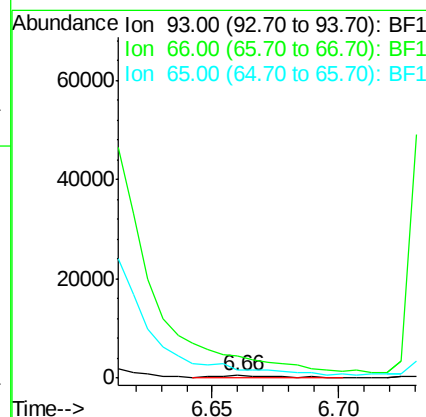
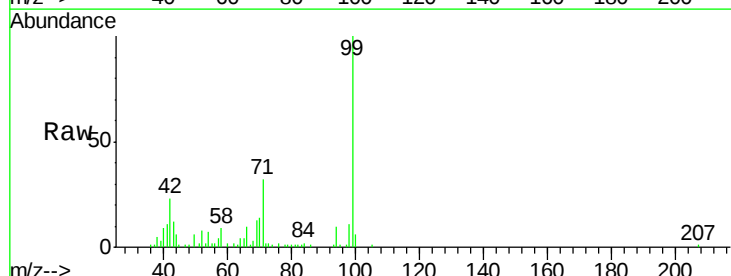
Instrument :  
 BNA\_F  
 ClientSampled :  
 LS-SOIL-4

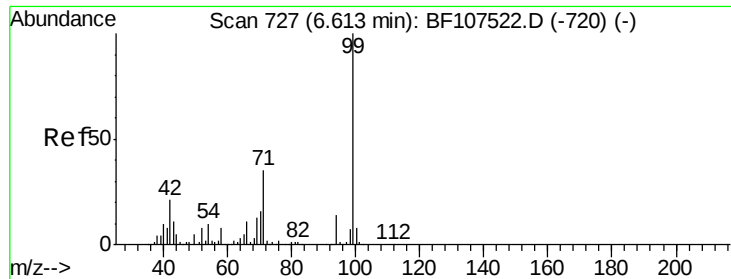
Tgt Ion: 112 Resp: 1658689  
 Ion Ratio Lower Upper  
 112 100  
 64 64.7 47.9 71.9  
 63 32.9 23.7 35.5



#6  
 Aniline  
 Concen: 0.032 ng  
 RT: 6.66 min Scan# 735  
 Delta R.T. 0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion: 93 Resp: 988  
 Ion Ratio Lower Upper  
 93 100  
 66 852.4 32.2 48.2#  
 65 314.7 16.4 24.6#





#7

Phenol-d6

Concen: 83.866 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

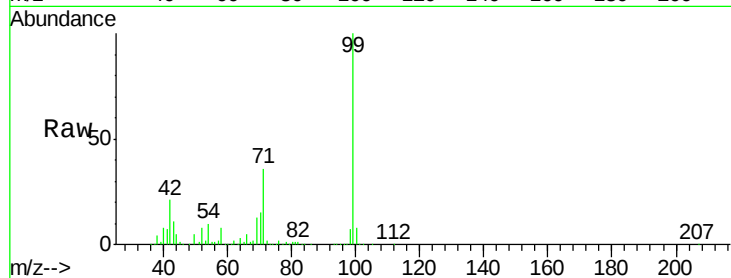
Tgt Ion: 99 Resp: 2014369

Ion Ratio Lower Upper

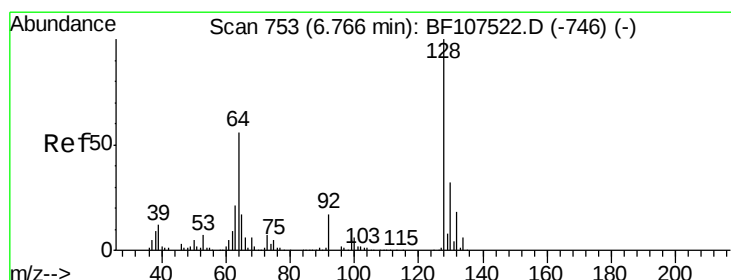
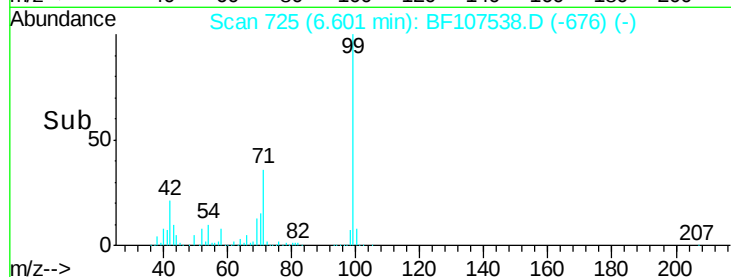
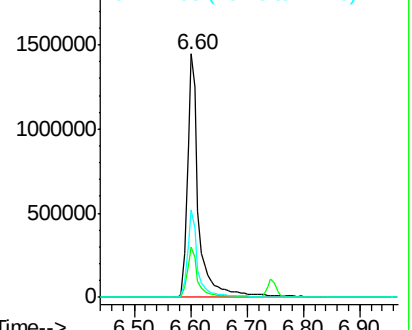
99 100

42 20.8 14.5 21.7

71 36.0 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 0.009 ng

RT: 6.76 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

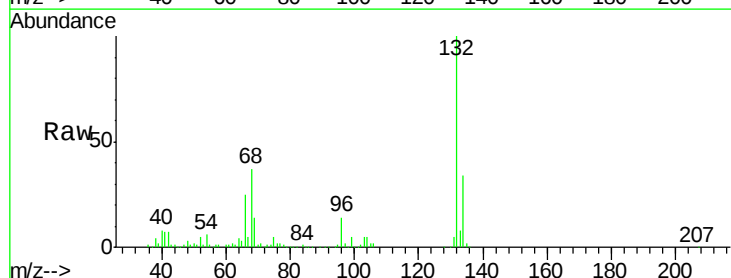
Tgt Ion: 128 Resp: 199

Ion Ratio Lower Upper

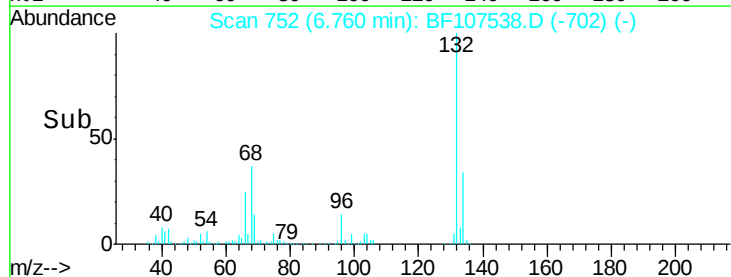
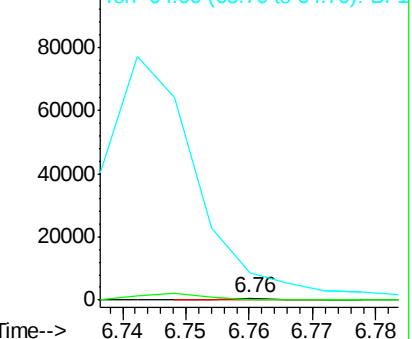
128 100

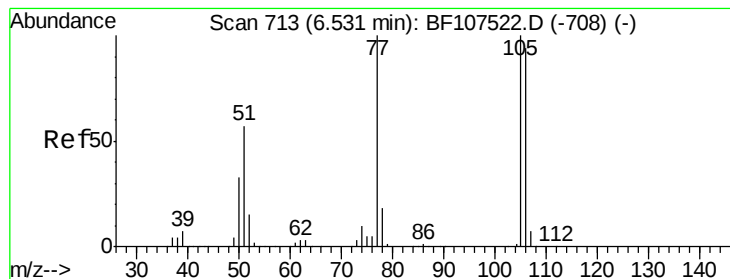
130 57.4 13.0 53.0#

64 1553.5 29.4 69.4#



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





#9

Benzaldehyde

Concen: 0.454 ng

RT: 6.74 min Scan# 749

Delta R.T. 0.21 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

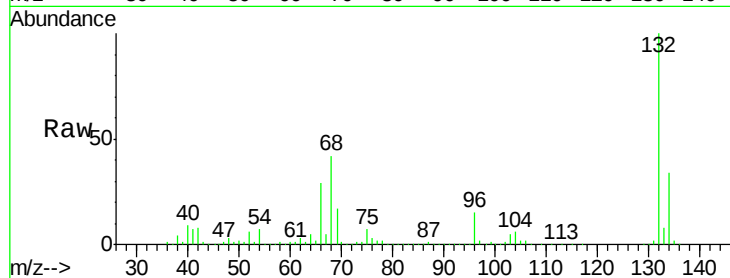
Tgt Ion: 77 Resp: 35952

Ion Ratio Lower Upper

77 100

105 92.1 81.1 121.1

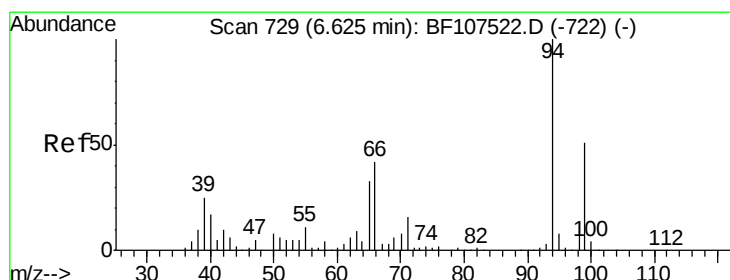
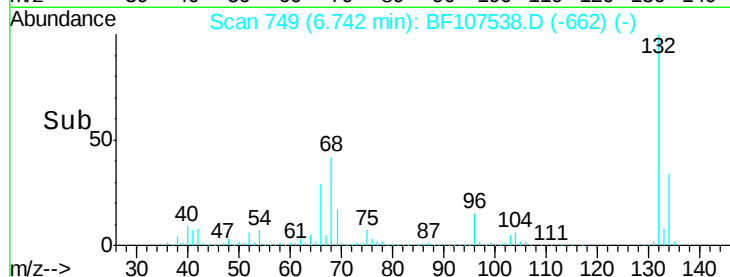
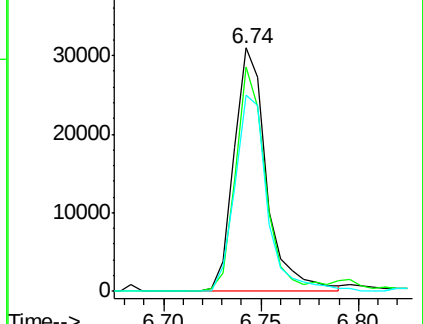
106 80.6 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1



#10

Phenol

Concen: 2.974 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

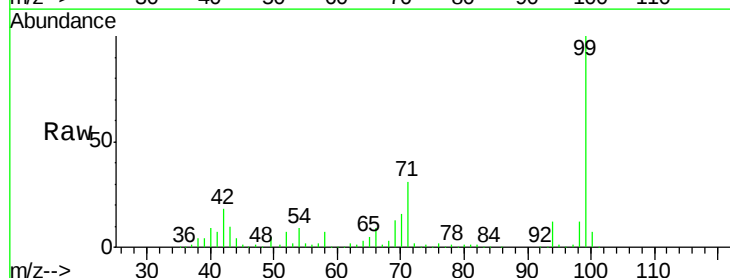
Tgt Ion: 94 Resp: 84014

Ion Ratio Lower Upper

94 100

65 40.5 7.9 47.9

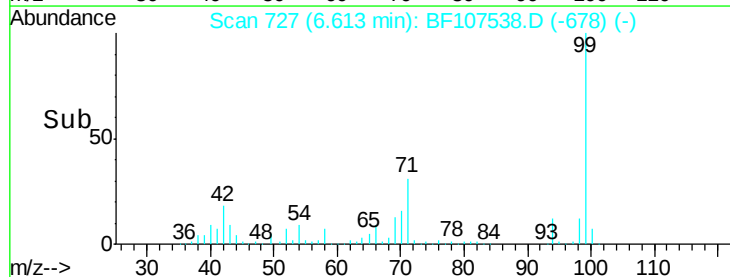
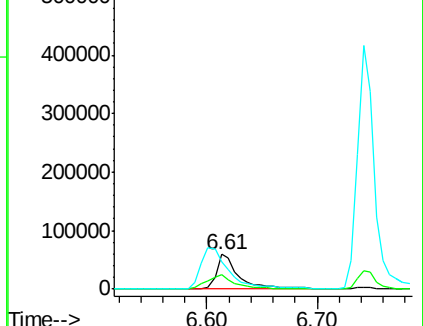
66 78.5 16.2 56.2#

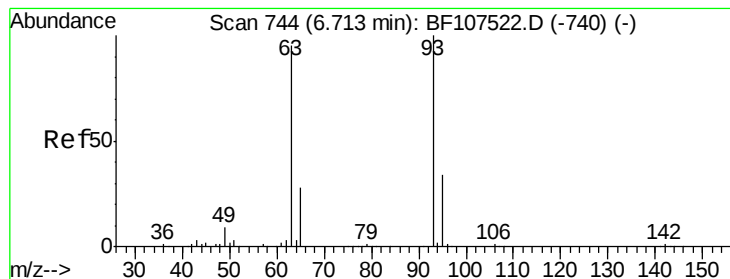


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#11

bis(2-Chloroethyl)ether

Concen: 0.095 ng

RT: 6.74 min Scan# 749

Delta R.T. 0.03 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

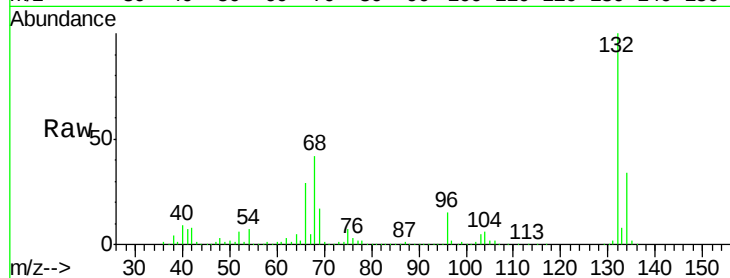
Tgt Ion: 93 Resp: 2224

Ion Ratio Lower Upper

93 100

63 831.8 58.6 98.6#

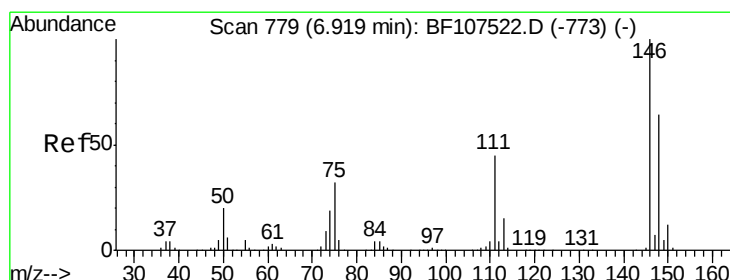
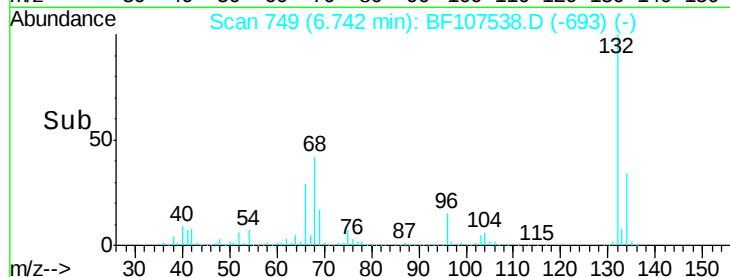
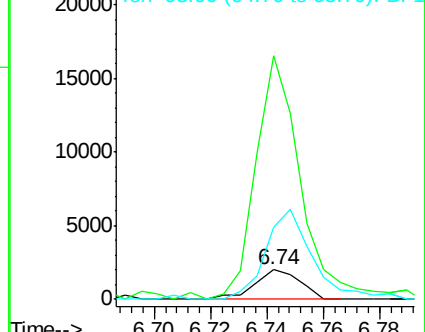
95 244.7 11.8 51.8#



Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 95.00 (94.70 to 95.70): BF1



#12

1,3-Dichlorobenzene

Concen: 0.018 ng

RT: 7.00 min Scan# 792

Delta R.T. 0.08 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

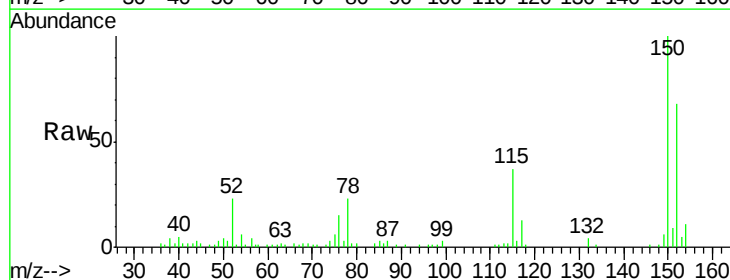
Tgt Ion: 146 Resp: 442

Ion Ratio Lower Upper

146 100

148 73.0 51.8 77.8

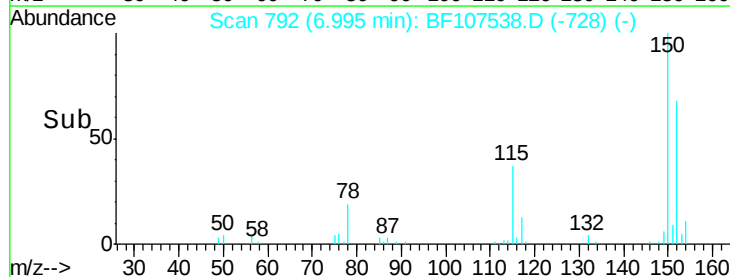
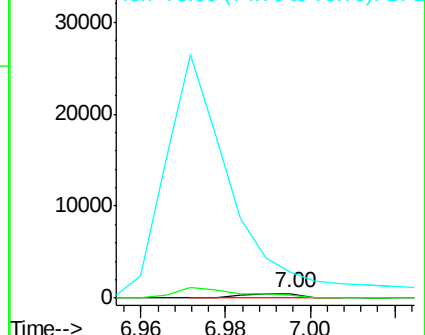
75 580.5 24.2 36.4#

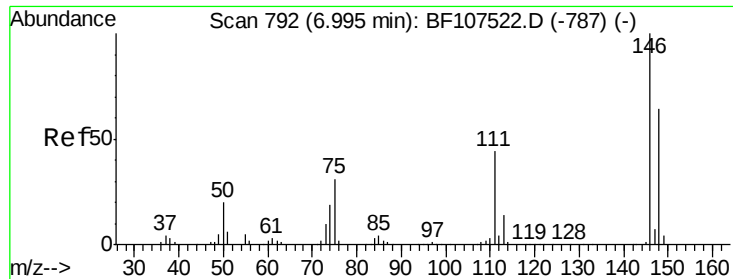


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 75.00 (74.70 to 75.70): BF1

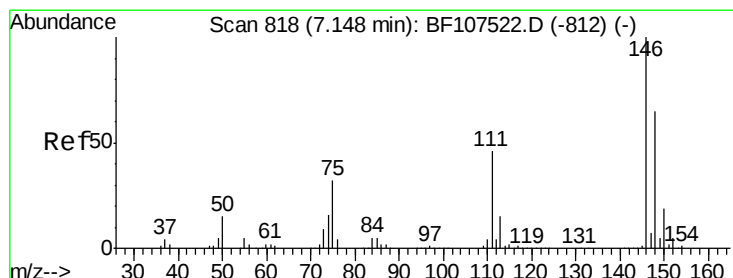
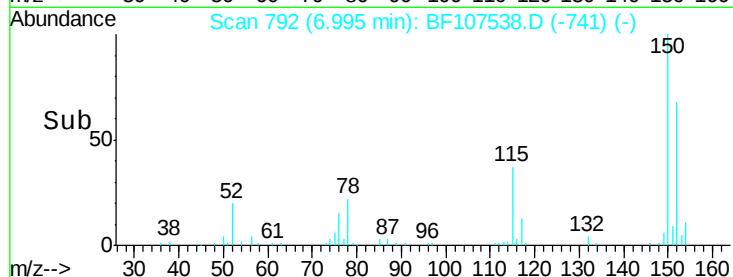
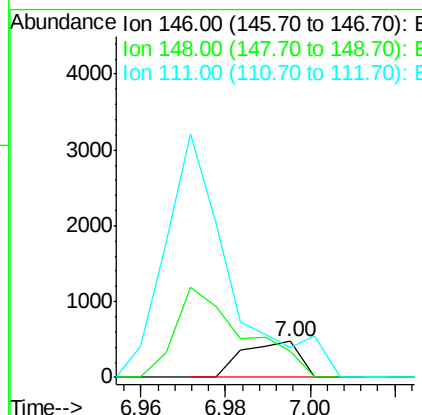
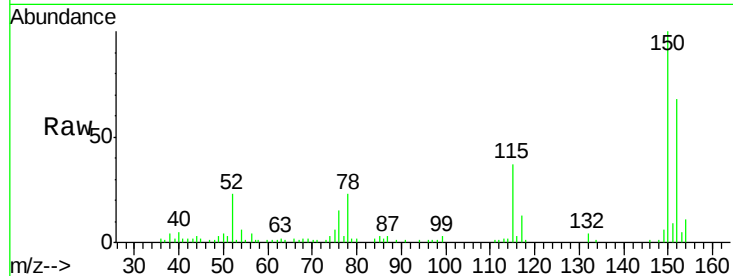




#13  
1,4-Dichlorobenzene  
Concen: 0.018 ng  
RT: 7.00 min Scan# 792  
Delta R.T. -0.00 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

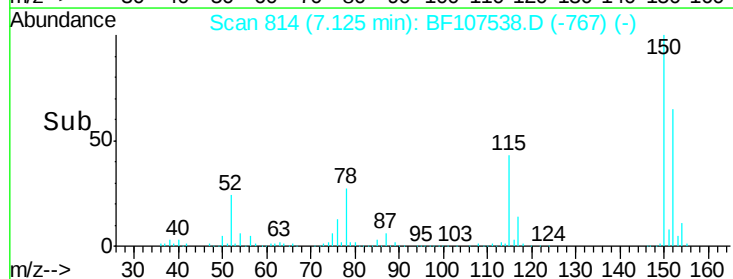
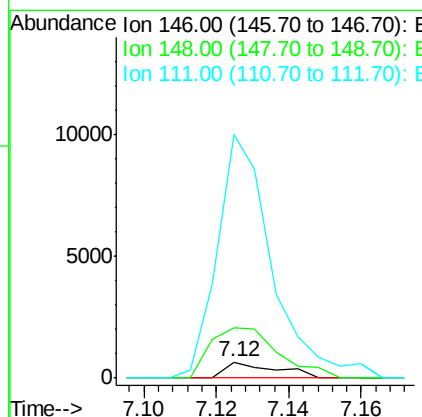
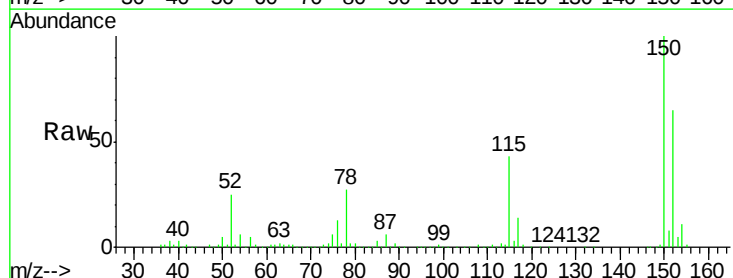
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

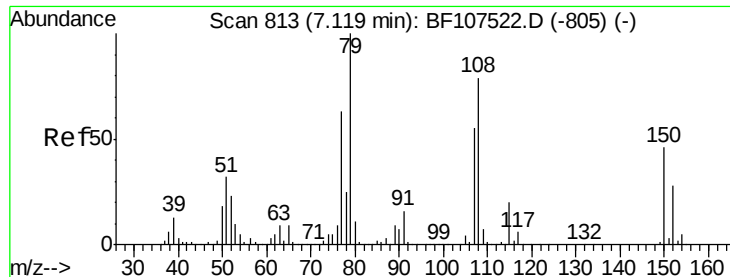
Tgt Ion:146 Resp: 442  
Ion Ratio Lower Upper  
146 100  
148 73.0 50.8 76.2  
111 81.8 34.2 51.2#



#14  
1,2-Dichlorobenzene  
Concen: 0.029 ng  
RT: 7.12 min Scan# 814  
Delta R.T. -0.02 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:146 Resp: 653  
Ion Ratio Lower Upper  
146 100  
148 318.0 50.6 75.8#  
111 1544.7 36.0 54.0#

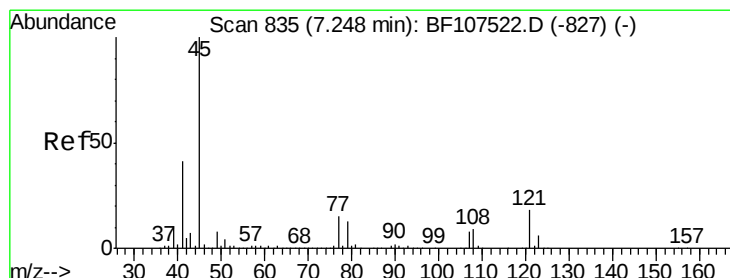
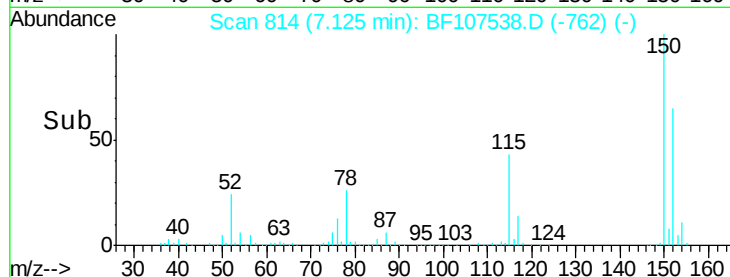
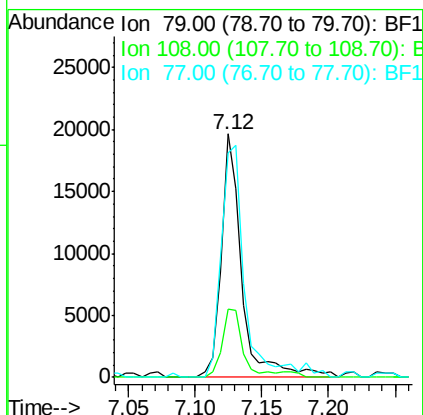
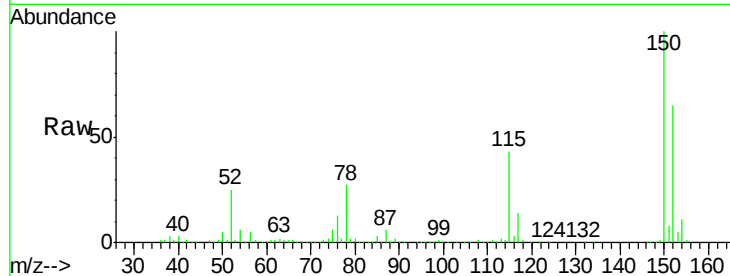




#15  
Benzyl Alcohol  
Concen: 1.304 ng  
RT: 7.12 min Scan# 814  
Delta R.T. 0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

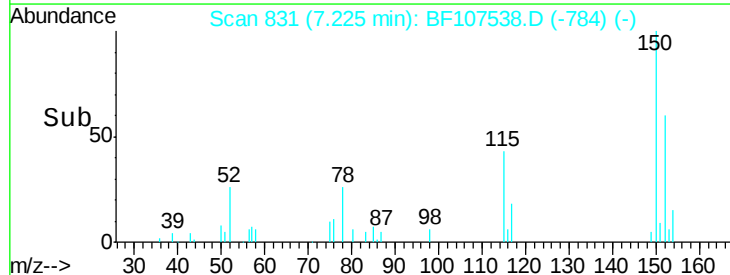
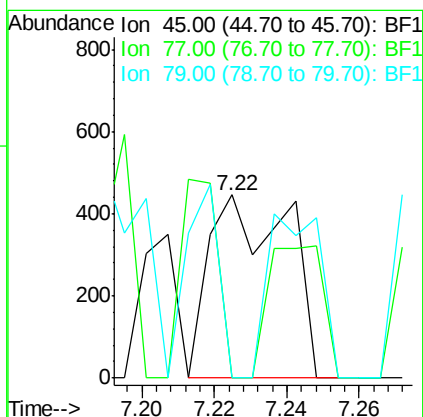
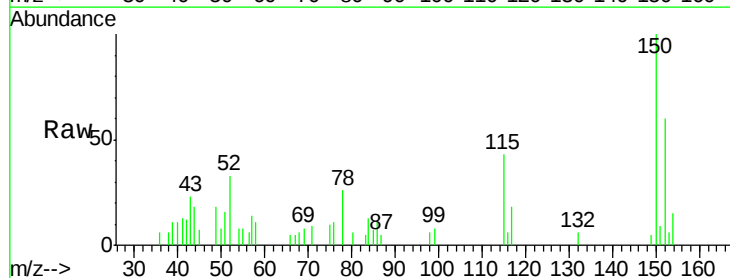
Instrument :  
BNA\_F  
ClientSampled :  
LS-SOIL-4

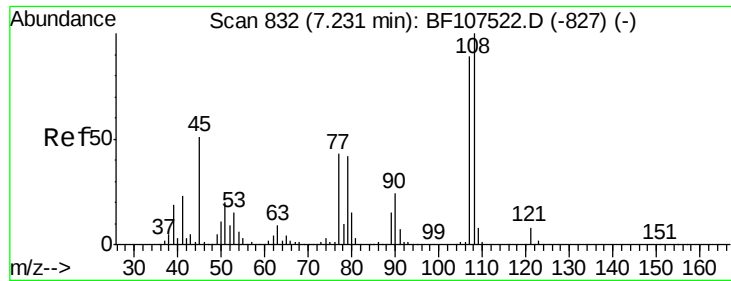
Tgt Ion: 79 Resp: 21339  
Ion Ratio Lower Upper  
79 100  
108 27.9 65.1 97.7#  
77 92.4 50.6 75.8#



#16  
2,2'-oxybis(1-chloropropane)  
Concen: 0.017 ng  
RT: 7.22 min Scan# 831  
Delta R.T. -0.02 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion: 45 Resp: 669  
Ion Ratio Lower Upper  
45 100  
77 0.0 0.0 32.9  
79 0.0 0.0 29.6

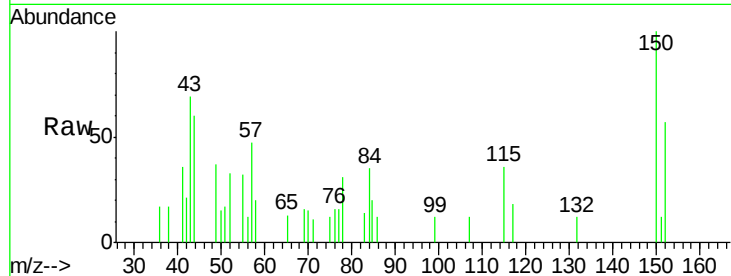




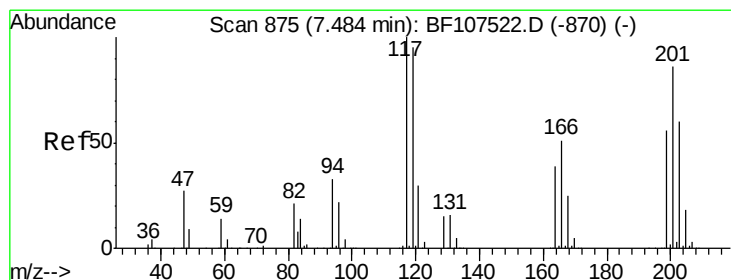
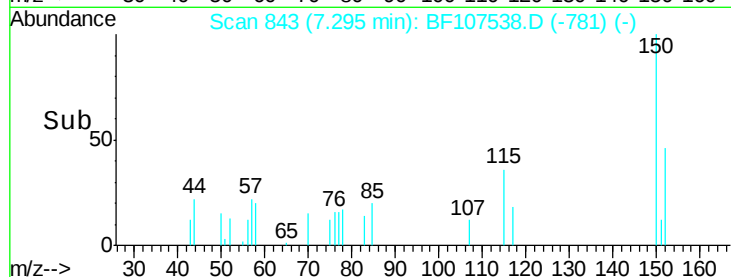
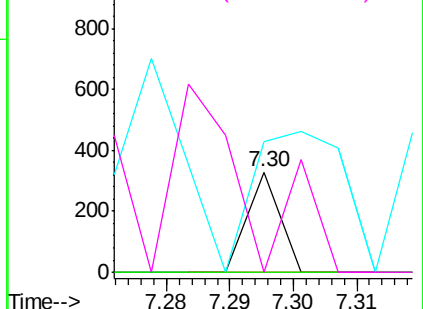
#17  
2-Methylphenol  
Concen: 0.006 ng  
RT: 7.30 min Scan# 843  
Delta R.T. 0.06 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

Tgt Ion:107 Resp: 116  
Ion Ratio Lower Upper  
107 100  
108 0.0 91.7 137.5#  
77 130.2 33.8 50.8#  
79 0.0 33.8 50.8#

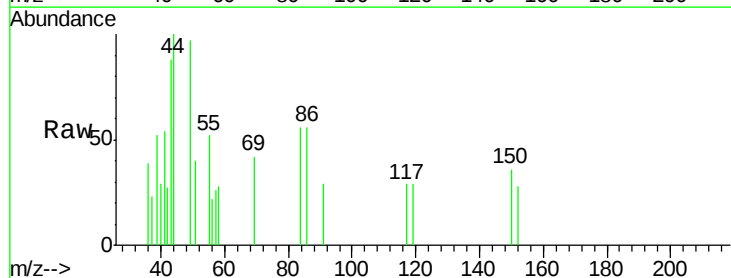


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

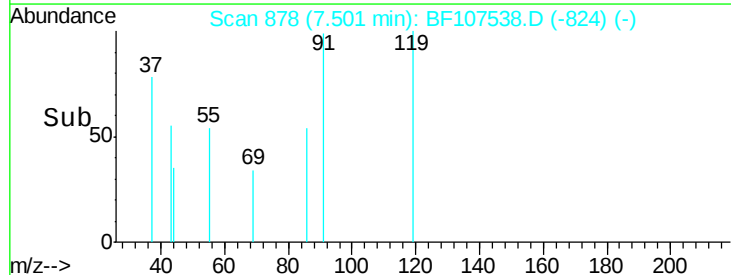
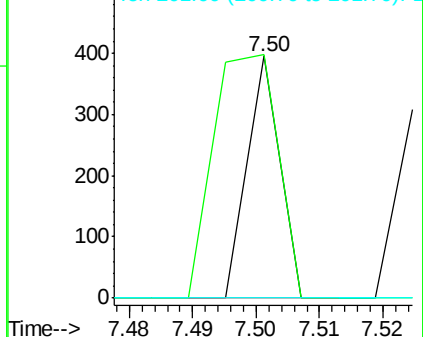


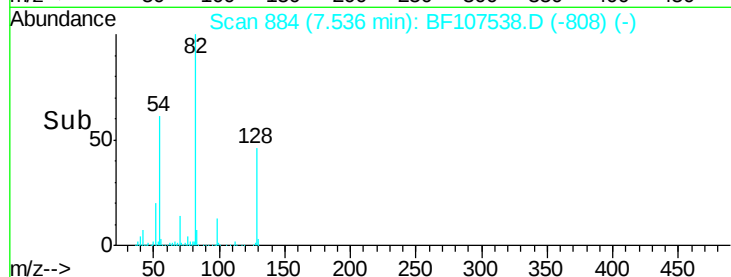
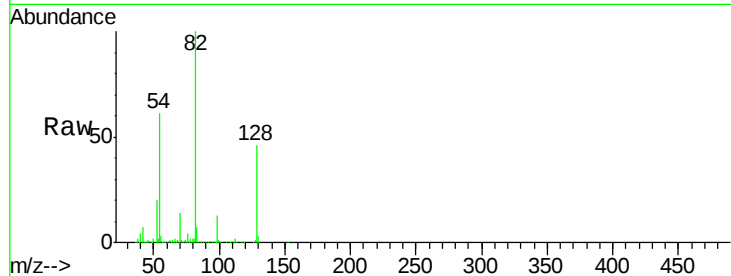
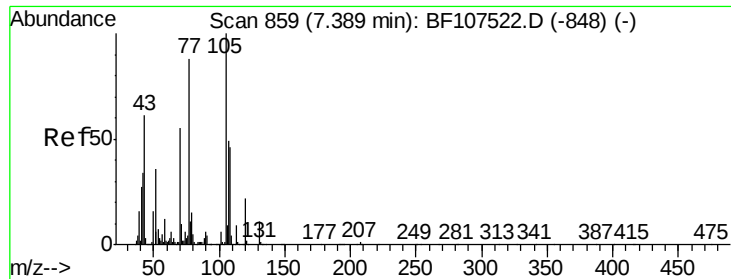
#18  
Hexachloroethane  
Concen: 0.016 ng  
RT: 7.50 min Scan# 878  
Delta R.T. 0.02 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:117 Resp: 139  
Ion Ratio Lower Upper  
117 100  
119 100.8 75.8 113.8  
201 0.0 75.7 113.5#



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

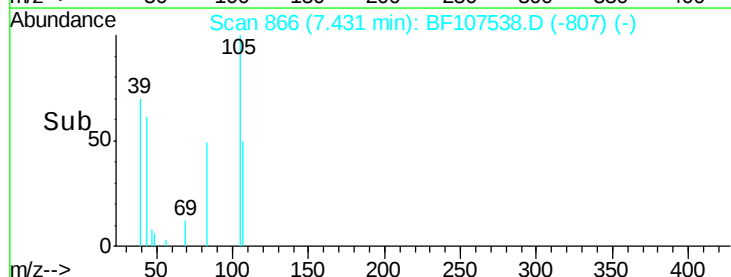
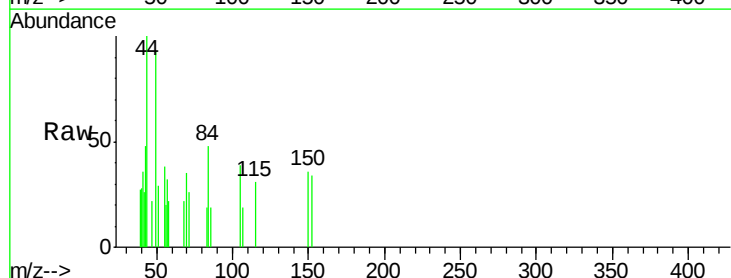
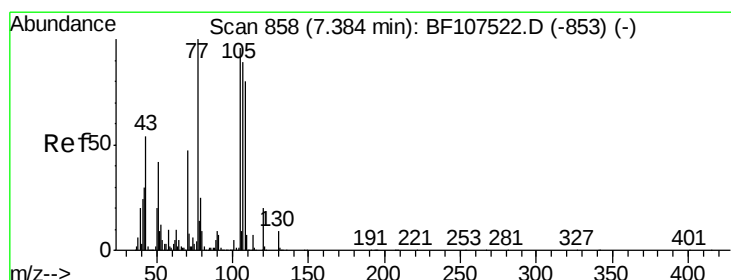
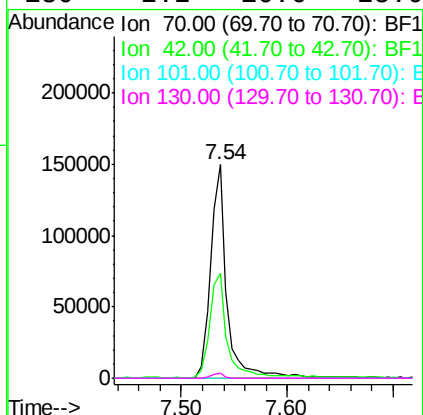




#19  
n-Nitroso-di-n-propylamine  
Concen: 10.524 ng  
RT: 7.54 min Scan# 884  
Delta R.T. 0.15 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

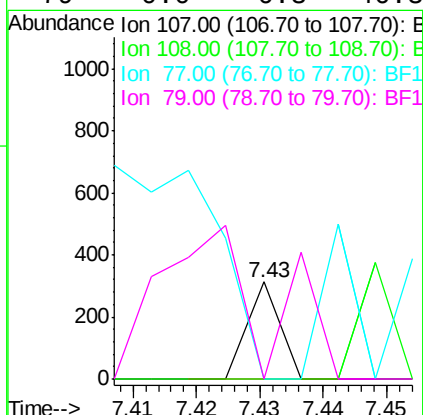
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

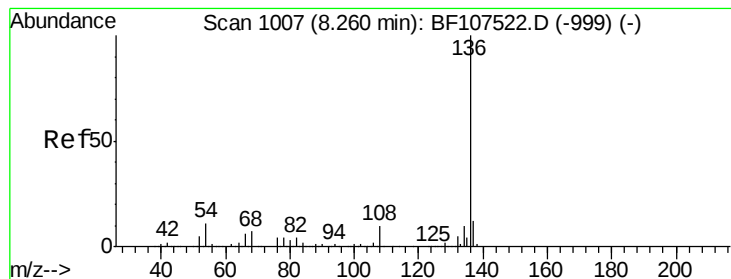
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 163296 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 49.1  | 47.5  | 71.3   |
| 101      | 0.0   | 7.4   | 11.2#  |
| 130      | 2.2   | 16.6  | 25.0#  |



#20  
3+4-Methylphenols  
Concen: 0.005 ng  
RT: 7.43 min Scan# 866  
Delta R.T. 0.05 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 110    |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 0.0   | 68.2  | 108.2# |
| 77       | 0.0   | 26.7  | 66.7#  |
| 79       | 0.0   | 6.3   | 46.3#  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1006

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

Tgt Ion:136 Resp: 1251071

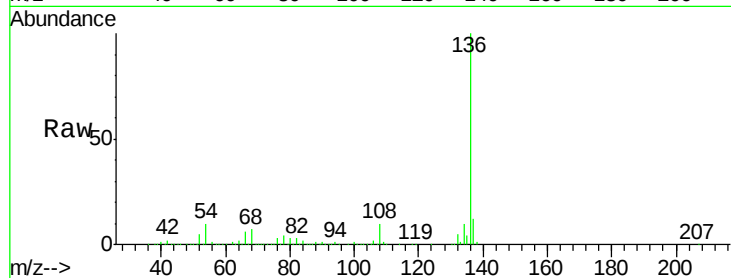
Ion Ratio Lower Upper

136 100

137 11.7 8.9 13.3

54 10.4 6.6 9.8#

68 6.5 5.0 7.4

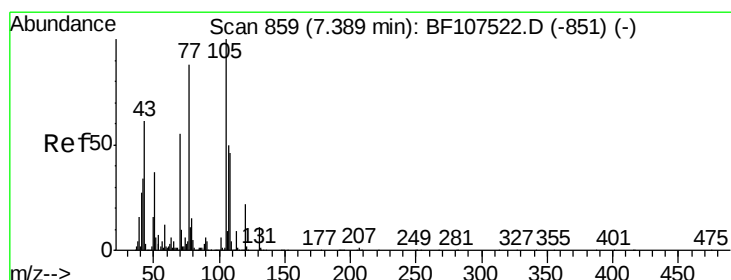
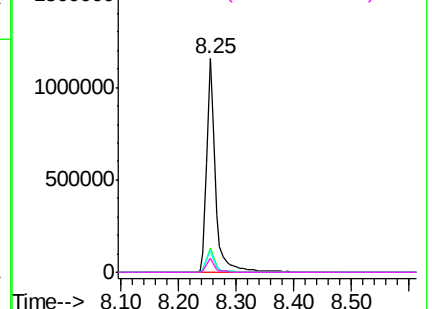
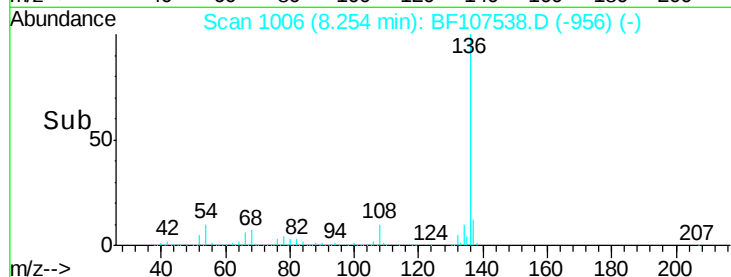


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#22

Acetophenone

Concen: 0.125 ng

RT: 7.39 min Scan# 859

Delta R.T. -0.00 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Tgt Ion:105 Resp: 3663

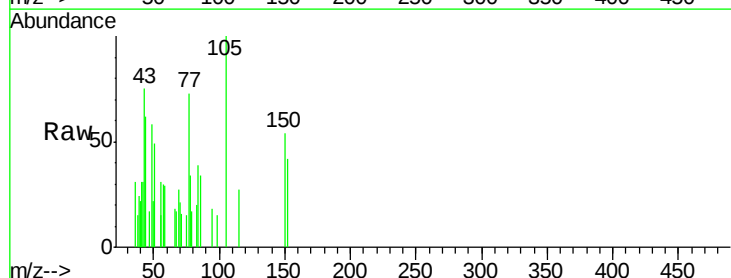
Ion Ratio Lower Upper

105 100

71 16.4 4.4 6.6#

51 48.8 22.3 33.5#

120 0.0 16.9 25.3#

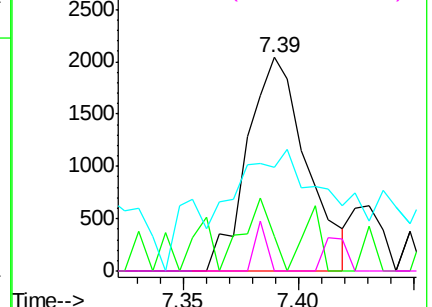
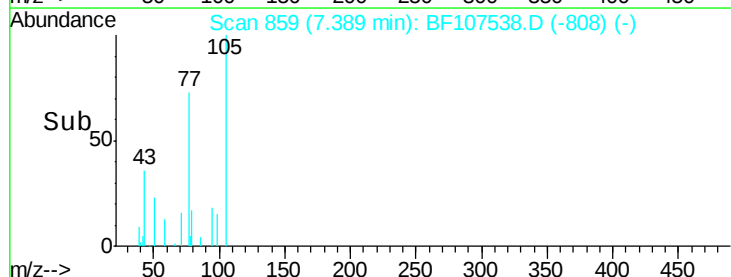


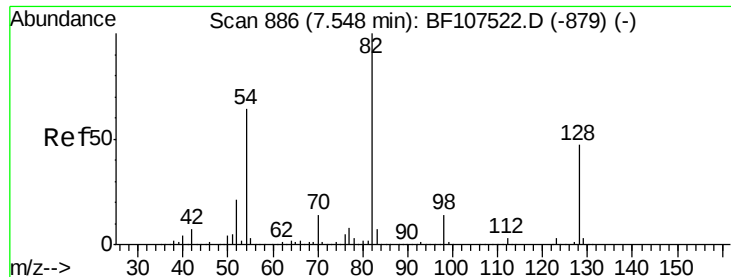
Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E

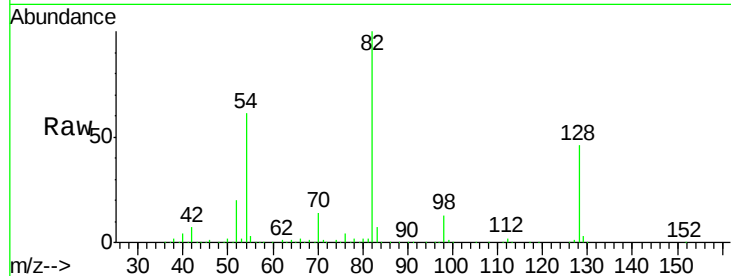




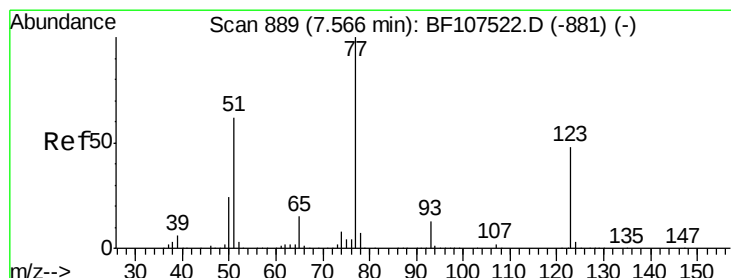
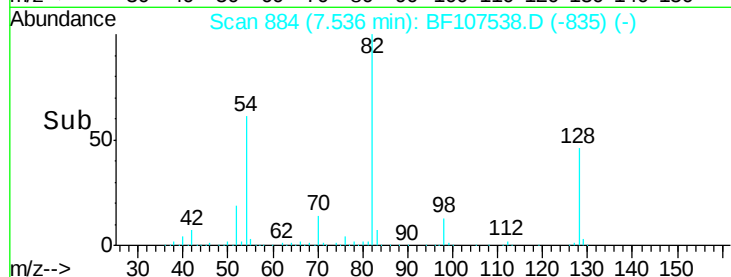
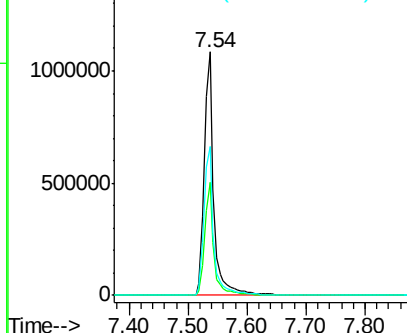
#23  
 Nitrobenzene-d5  
 Concen: 66.017 ng  
 RT: 7.54 min Scan# 884  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

Tgt Ion: 82 Resp: 1223814  
 Ion Ratio Lower Upper  
 82 100  
 128 46.4 36.1 54.1  
 54 61.3 41.4 62.2

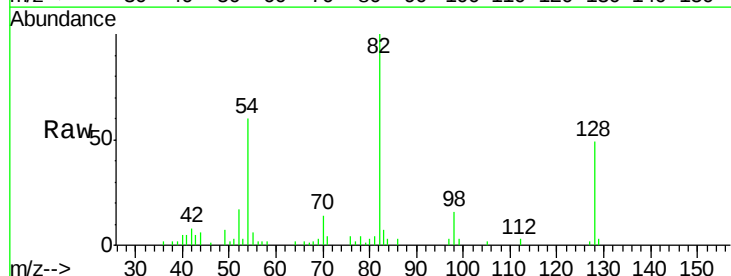


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

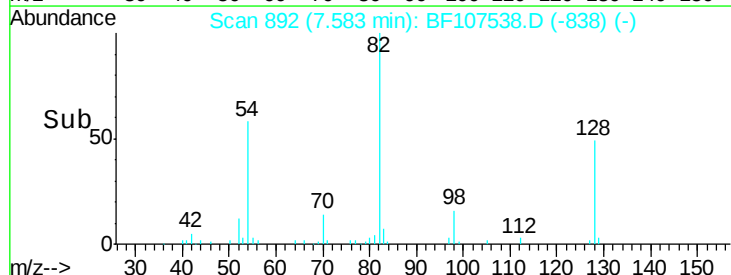
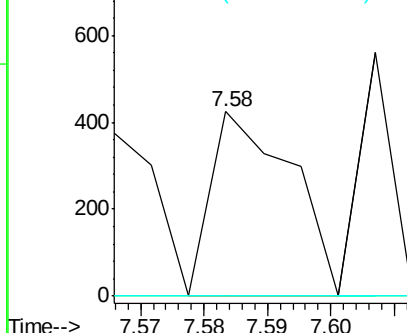


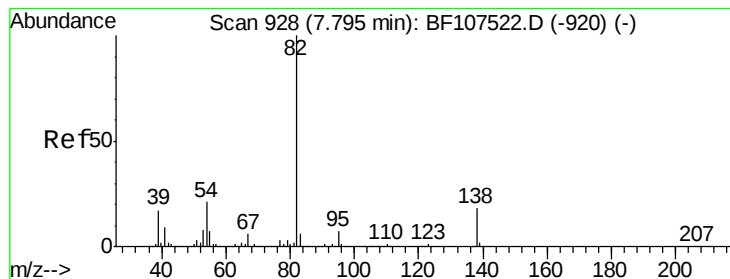
#24  
 Nitrobenzene  
 Concen: 0.018 ng  
 RT: 7.58 min Scan# 892  
 Delta R.T. 0.02 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion: 77 Resp: 372  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 37.9 56.9#  
 65 0.0 11.0 16.4#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
 Ion 123.00 (122.70 to 123.70): BF1  
 Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 30.919 ng

RT: 7.54 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

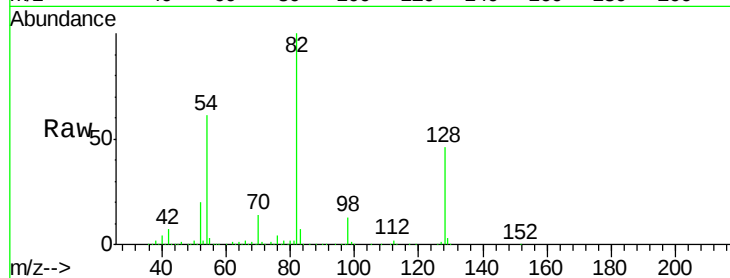
Tgt Ion: 82 Resp: 1223808

Ion Ratio Lower Upper

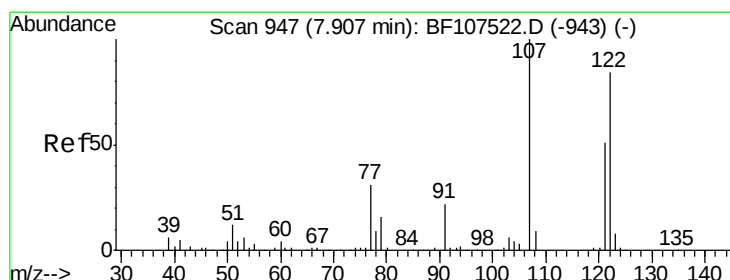
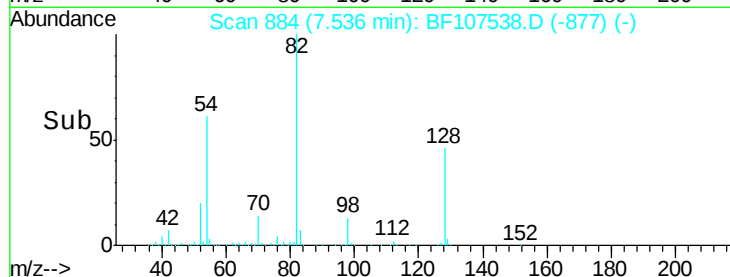
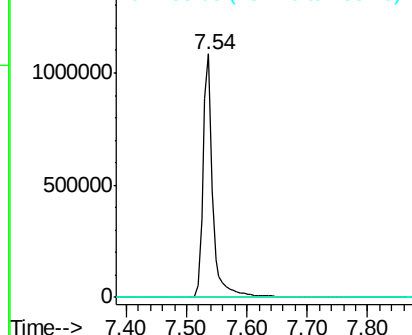
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#27

2,4-Dimethylphenol

Concen: 0.011 ng

RT: 8.05 min Scan# 971

Delta R.T. 0.14 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

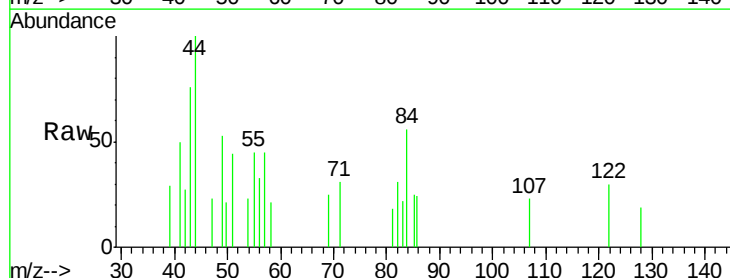
Tgt Ion: 122 Resp: 180

Ion Ratio Lower Upper

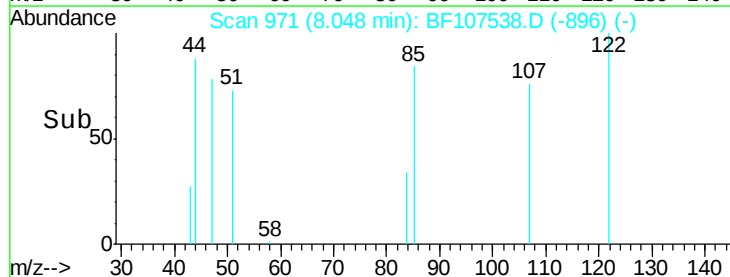
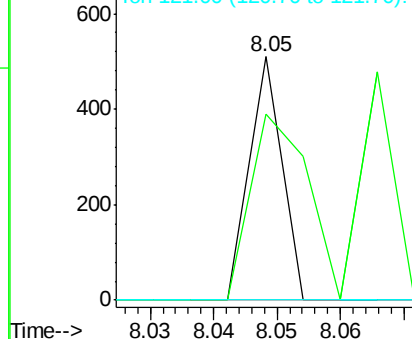
122 100

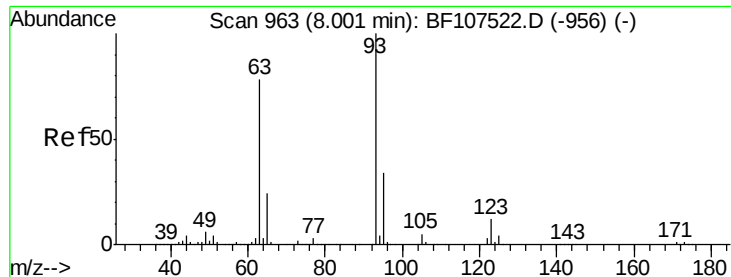
107 76.3 91.2 136.8#

121 0.0 47.2 70.8#



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

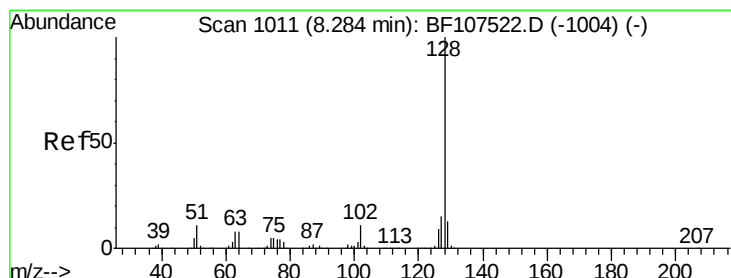
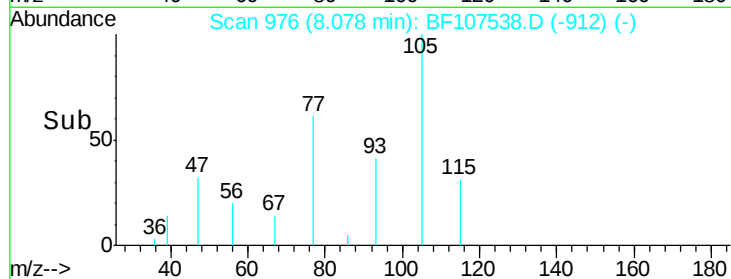
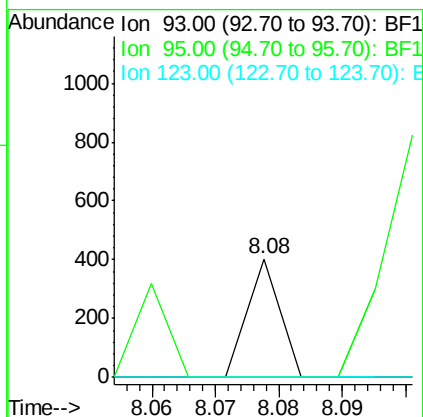
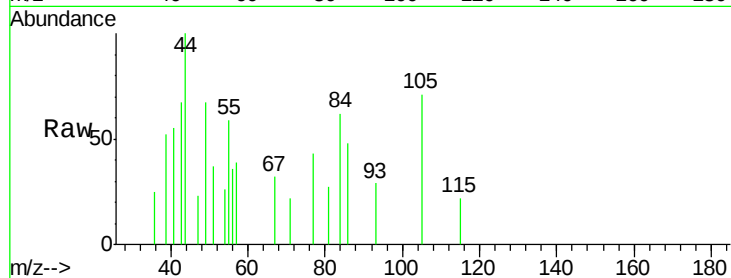




#28  
bis(2-Chloroethoxy)methane  
Concen: 0.005 ng  
RT: 8.08 min Scan# 976  
Delta R.T. 0.08 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

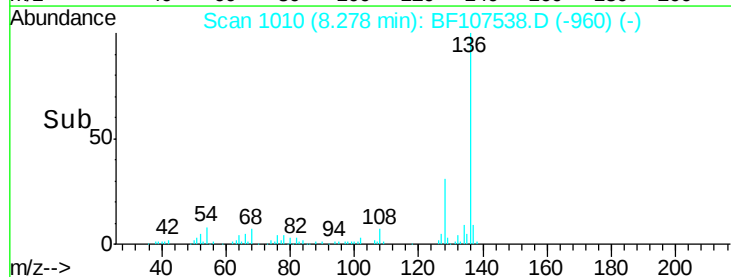
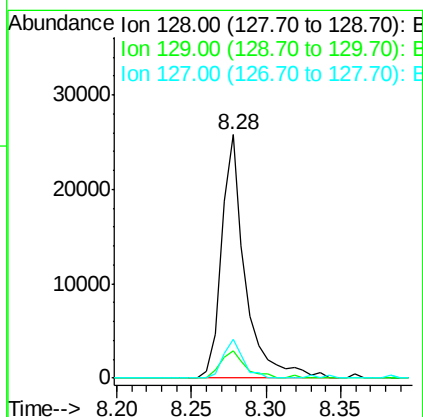
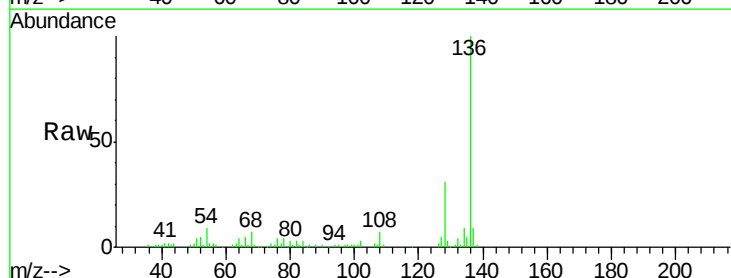
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

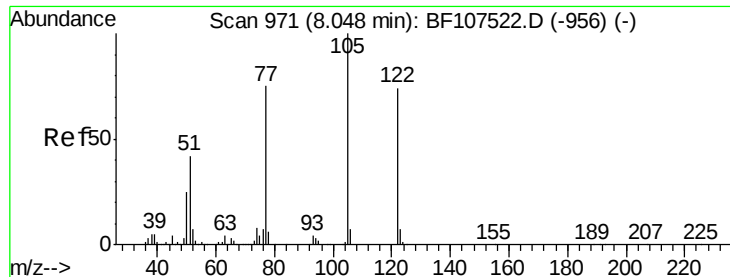
Tgt Ion: 93 Resp: 142  
Ion Ratio Lower Upper  
93 100  
95 0.0 26.3 39.5#  
123 0.0 9.8 14.6#



#31  
Naphthalene  
Concen: 0.520 ng  
RT: 8.28 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion: 128 Resp: 28626  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.8 13.2  
127 16.0 10.9 16.3

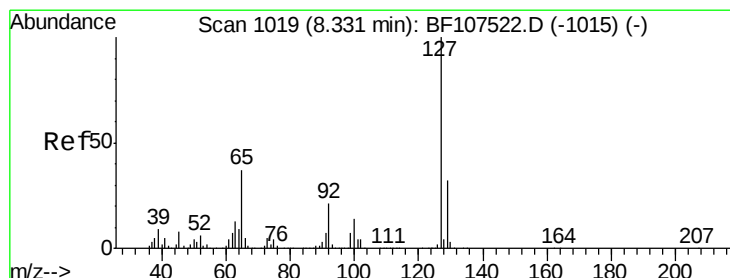
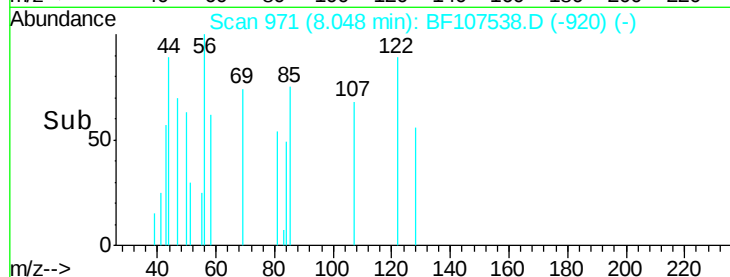
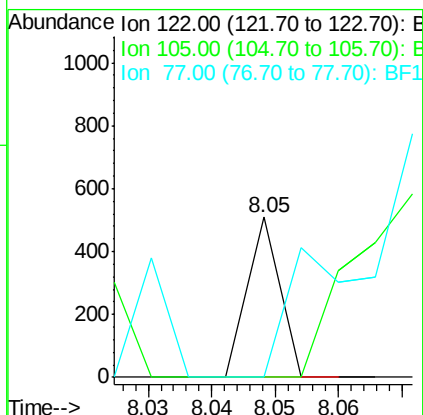
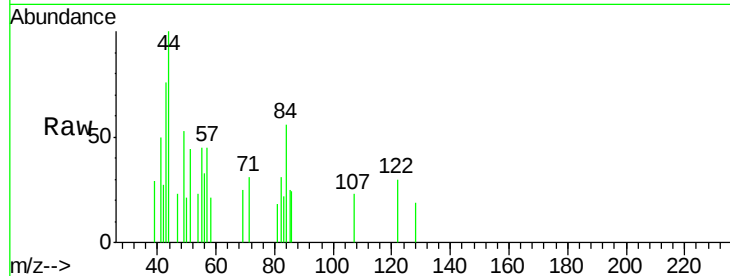




#32  
Benzoic acid  
Concen: 7.912 ng  
RT: 8.05 min Scan# 971  
Delta R.T. 0.00 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

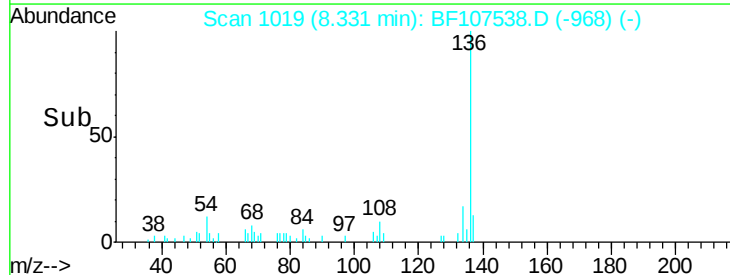
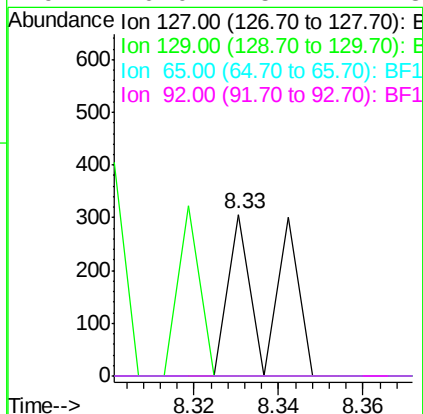
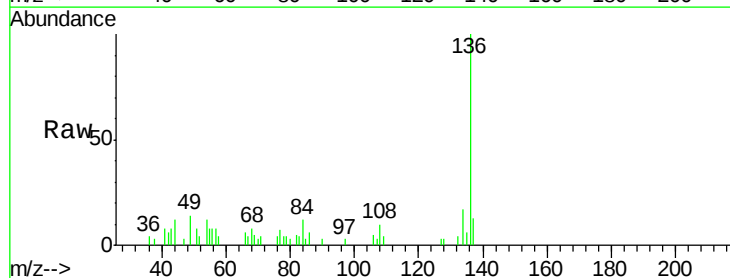
Instrument :  
BNA\_F  
ClientSampled :  
LS-SOIL-4

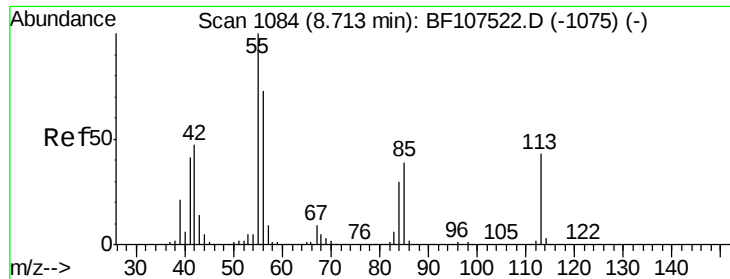
Tgt Ion:122 Resp: 180  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 0.0 70.7 110.7#



#33  
4-Chloroaniline  
Concen: 0.009 ng  
RT: 8.33 min Scan# 1019  
Delta R.T. -0.00 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:127 Resp: 214  
Ion Ratio Lower Upper  
127 100  
129 0.0 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.0 15.2 22.8#





#35

Caprolactam

Concen: 0.019 ng

RT: 8.97 min Scan# 1128

Delta R.T. 0.26 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

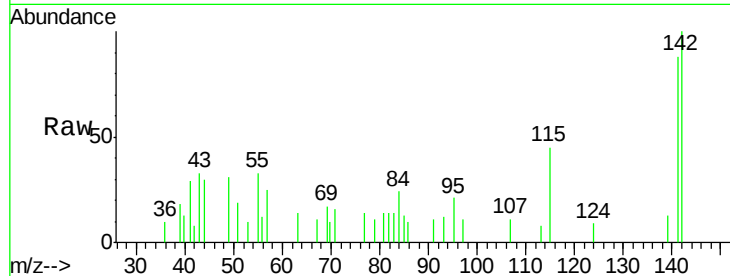
Tgt Ion:113 Resp: 109

Ion Ratio Lower Upper

113 100

55 421.6 163.3 203.3#

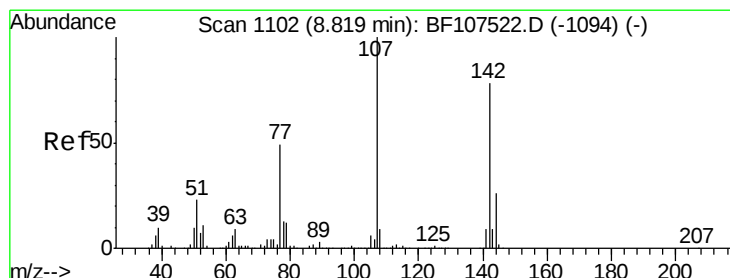
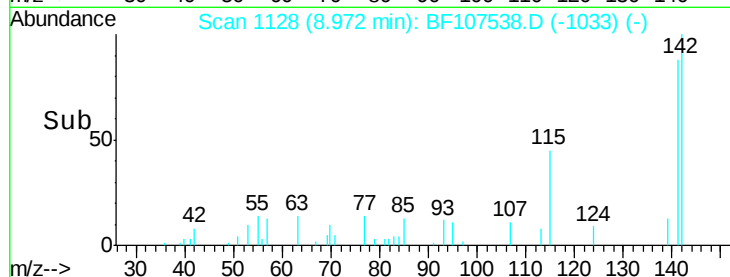
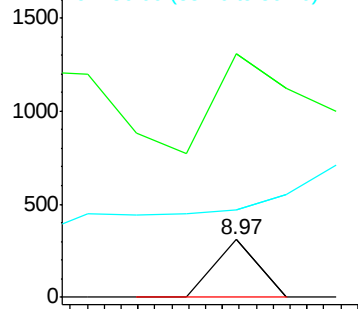
56 151.9 115.7 155.7



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#36

4-Chloro-3-methylphenol

Concen: 0.006 ng

RT: 8.80 min Scan# 1099

Delta R.T. -0.02 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

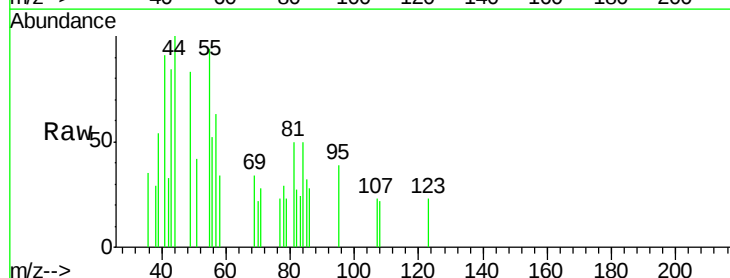
Tgt Ion:107 Resp: 112

Ion Ratio Lower Upper

107 100

144 0.0 20.5 30.7#

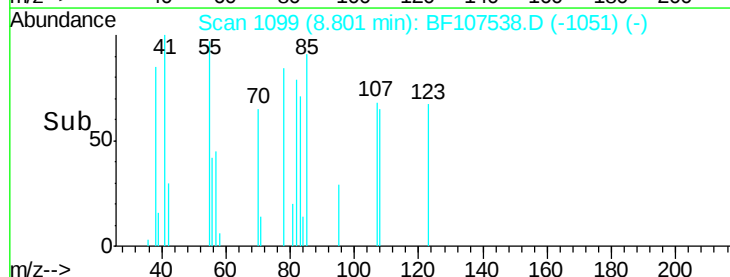
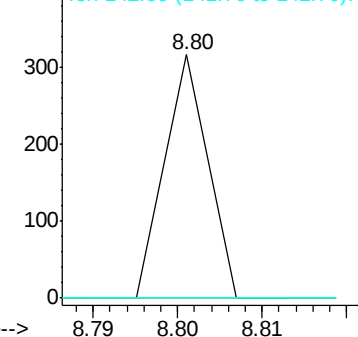
142 0.0 62.0 93.0#

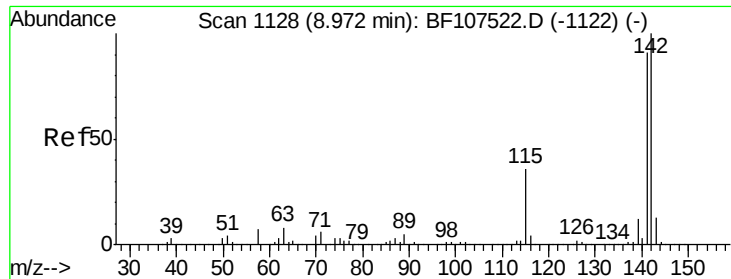


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

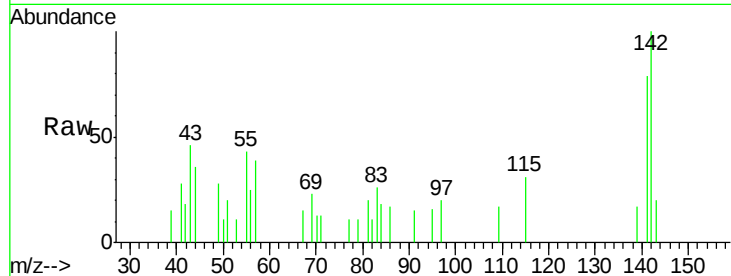




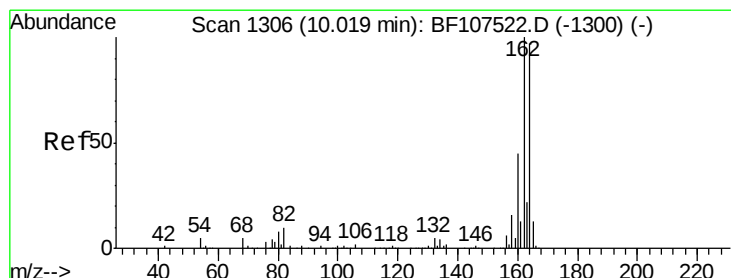
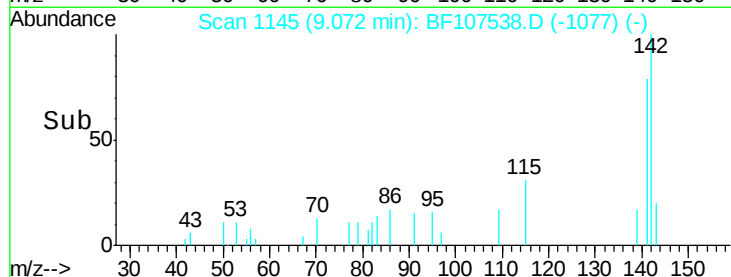
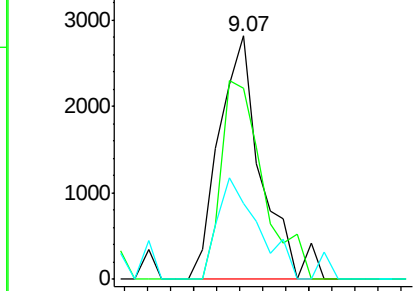
#37  
 2-Methylnaphthalene  
 Concen: 0.094 ng  
 RT: 9.07 min Scan# 1145  
 Delta R.T. 0.10 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

Tgt Ion:142 Resp: 3598  
 Ion Ratio Lower Upper  
 142 100  
 141 78.6 70.8 106.2  
 115 31.0 26.1 39.1

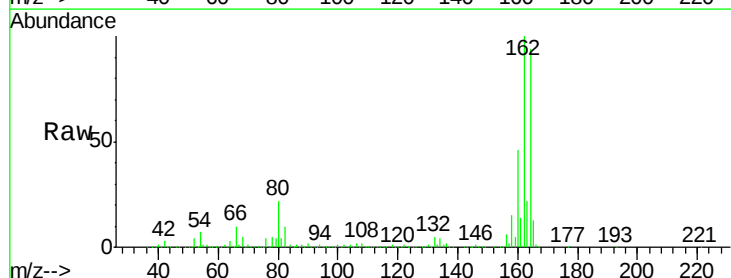


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E

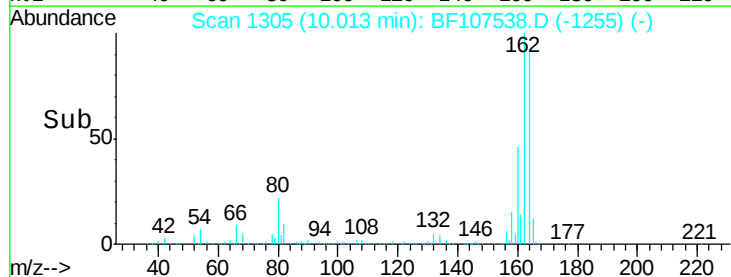
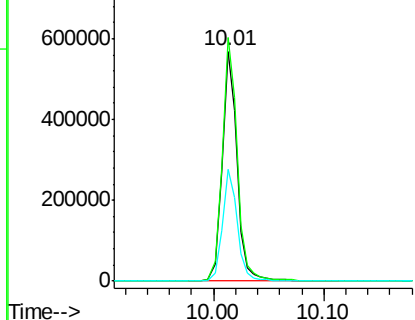


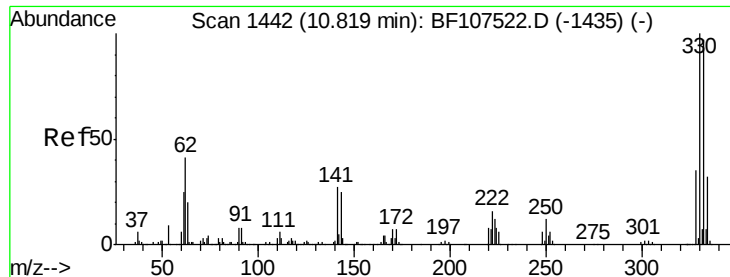
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 10.01 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:164 Resp: 538738  
 Ion Ratio Lower Upper  
 164 100  
 162 105.9 86.1 129.1  
 160 48.8 38.3 57.5



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

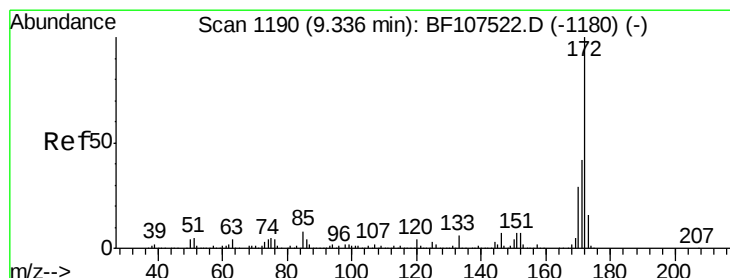
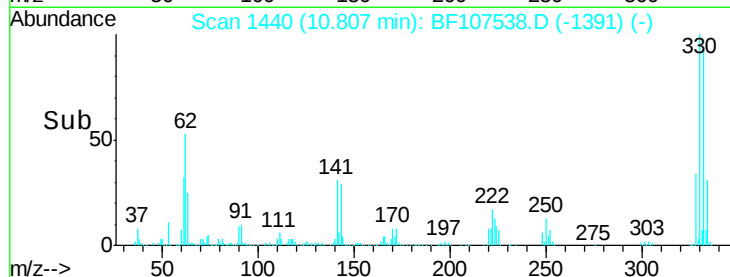
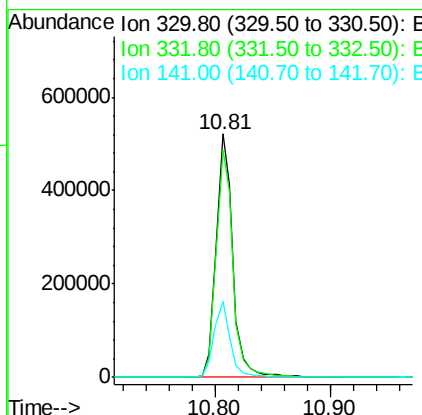
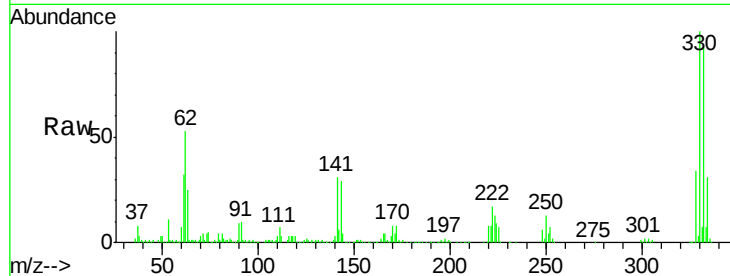




#41  
 2,4,6-Tribromophenol  
 Concen: 84.527 ng  
 RT: 10.81 min Scan# 1440  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

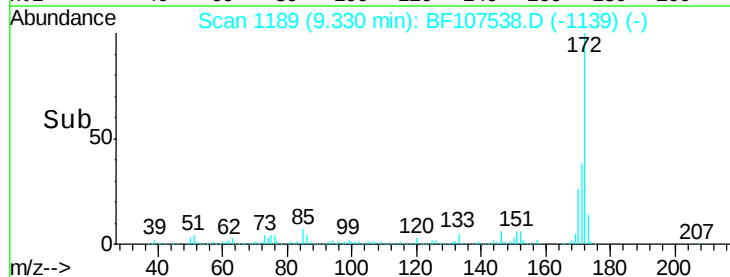
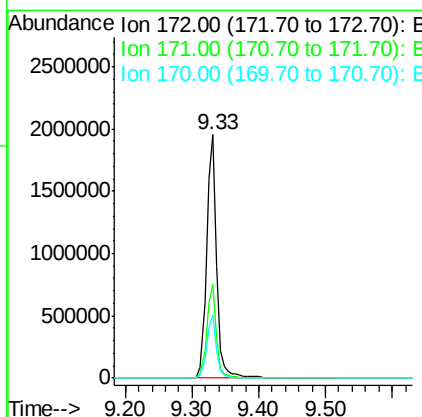
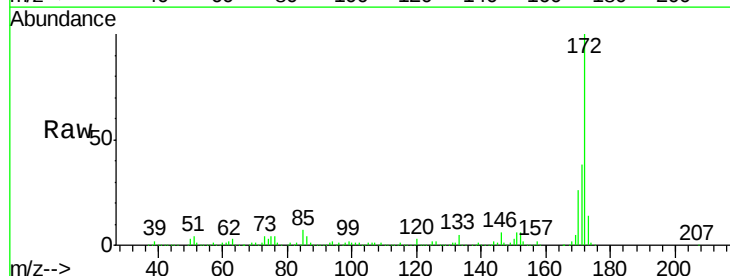
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

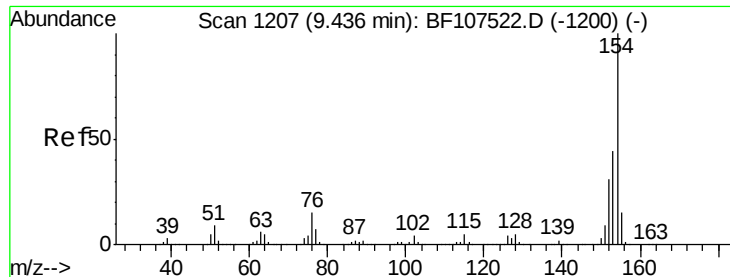
Tgt Ion:330 Resp: 517835  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.0 115.6  
 141 30.3 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 58.823 ng  
 RT: 9.33 min Scan# 1189  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:172 Resp: 2022030  
 Ion Ratio Lower Upper  
 172 100  
 171 38.4 29.7 44.5  
 170 25.8 19.6 29.4

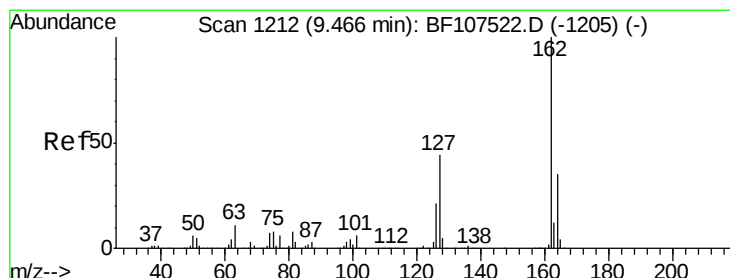
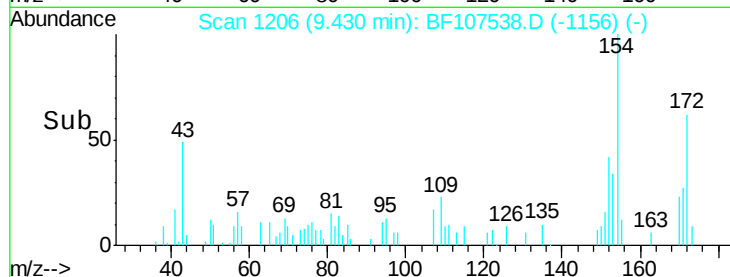
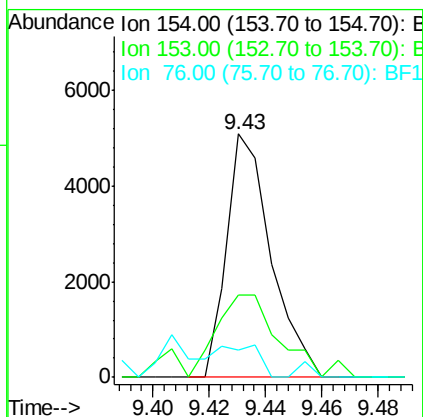
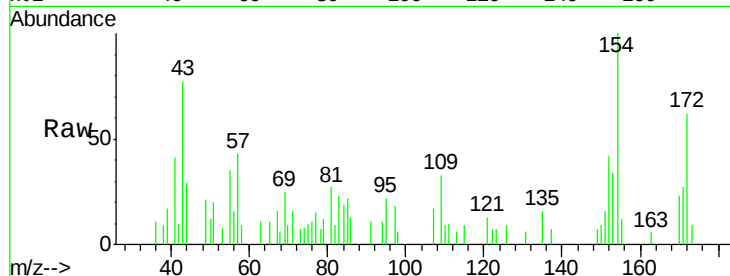




#45  
 1,1'-Biphenyl  
 Concen: 0.118 ng  
 RT: 9.43 min Scan# 1206  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

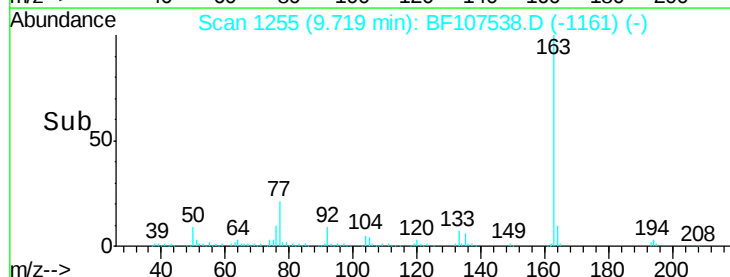
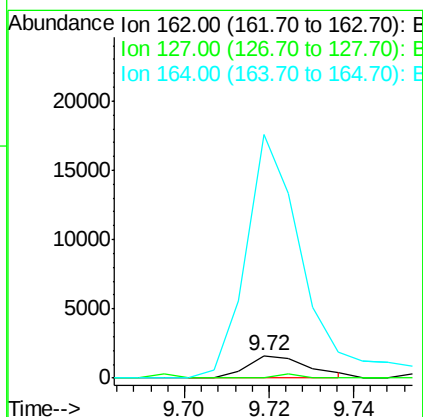
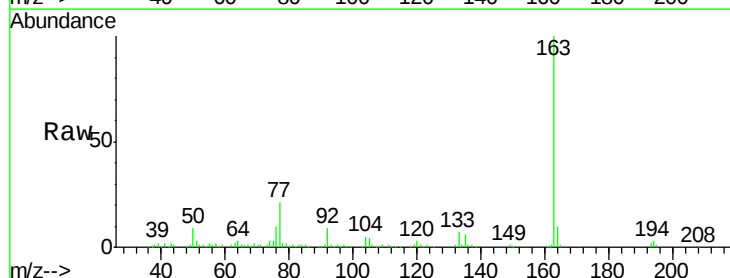
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

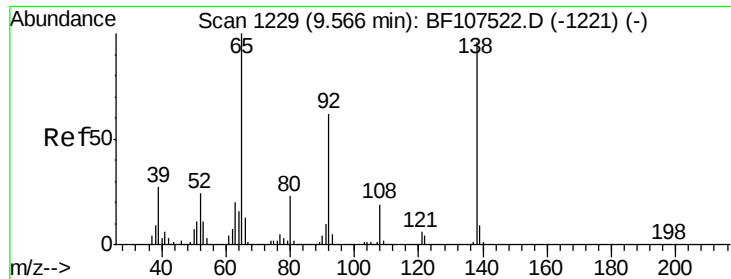
Tgt Ion:154 Resp: 5552  
 Ion Ratio Lower Upper  
 154 100  
 153 33.9 21.3 61.3  
 76 11.2 0.0 34.0



#46  
 2-Chloronaphthalene  
 Concen: 0.045 ng  
 RT: 9.72 min Scan# 1255  
 Delta R.T. 0.25 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:162 Resp: 1600  
 Ion Ratio Lower Upper  
 162 100  
 127 0.0 33.9 50.9#  
 164 1069.8 26.5 39.7#





#47

2-Nitroaniline

Concen: 0.045 ng

RT: 9.55 min Scan# 1226

Delta R.T. -0.02 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

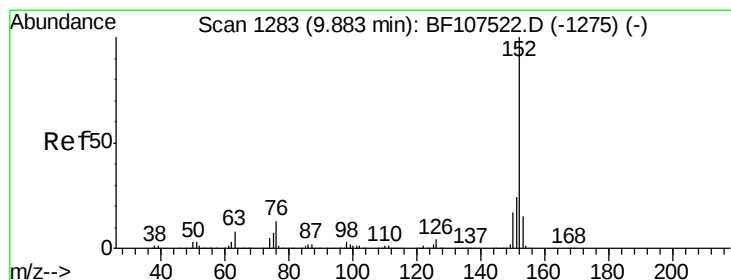
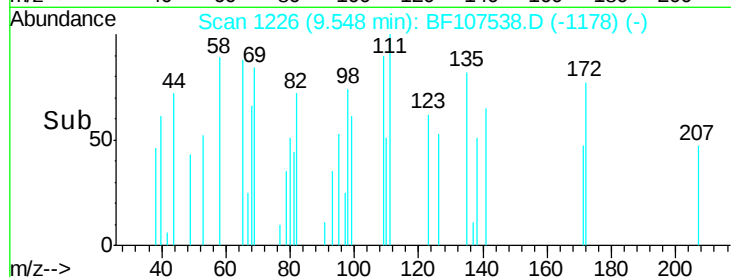
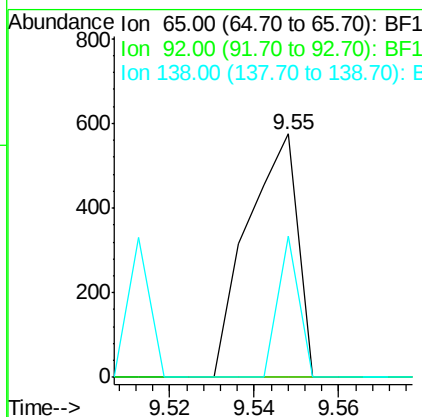
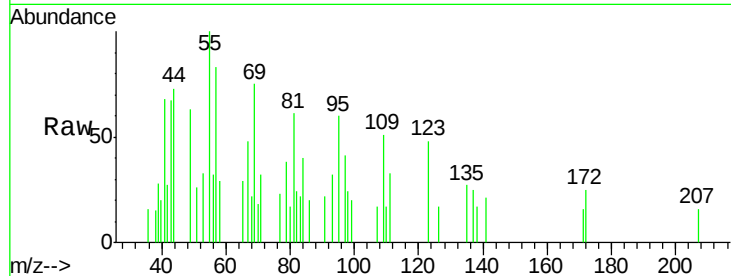
Tgt Ion: 65 Resp: 475

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

138 57.9 91.2 136.8#



#48

Acenaphthylene

Concen: 0.092 ng

RT: 9.88 min Scan# 1282

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

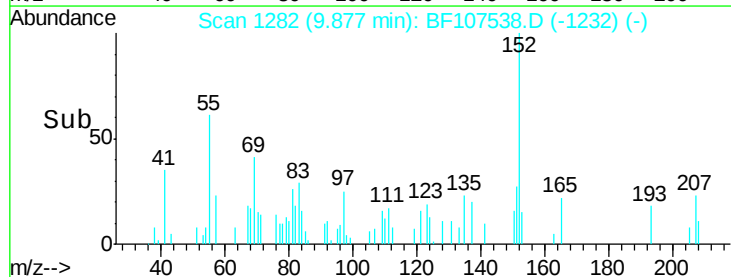
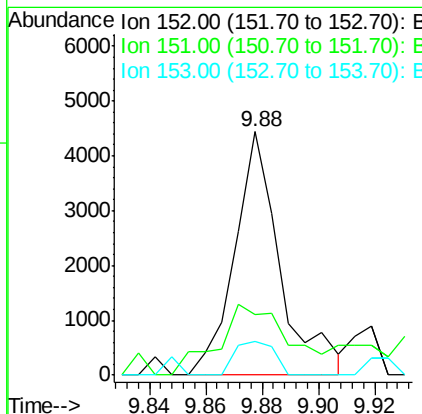
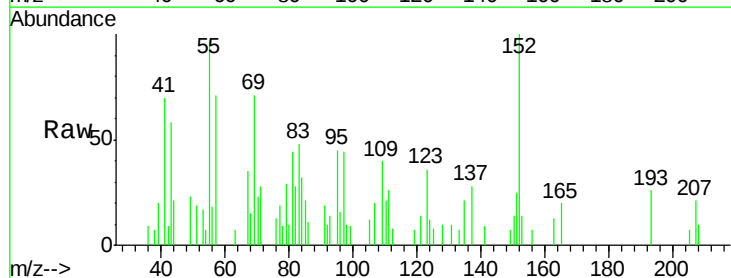
Tgt Ion: 152 Resp: 4975

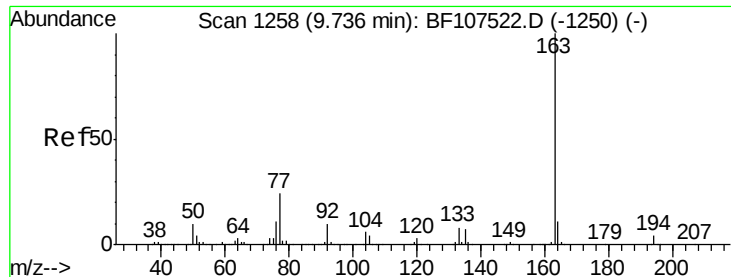
Ion Ratio Lower Upper

152 100

151 24.7 16.3 24.5#

153 14.0 10.7 16.1

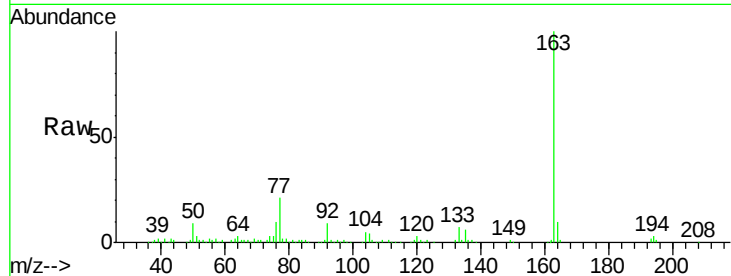




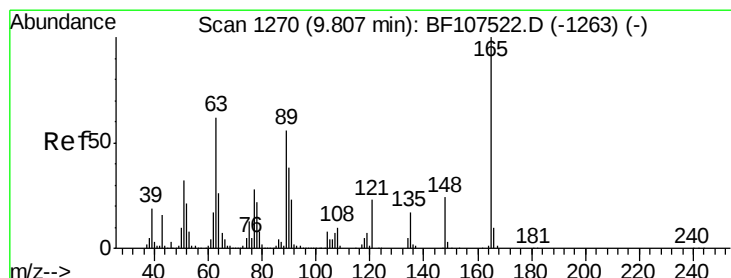
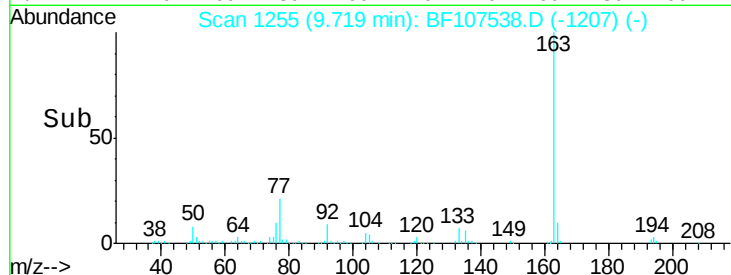
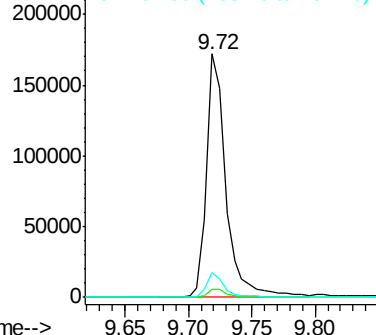
#49  
Dimethylphthalate  
Concen: 4.444 ng  
RT: 9.72 min Scan# 1255  
Delta R.T. -0.02 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

Tgt Ion:163 Resp: 180424  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.7 4.1  
164 10.2 8.2 12.2

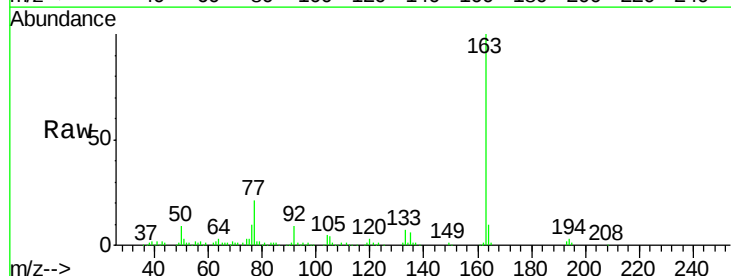


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

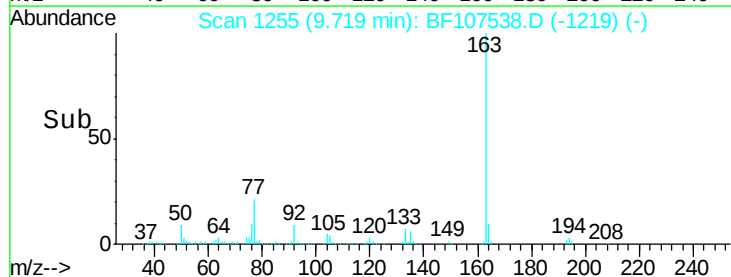
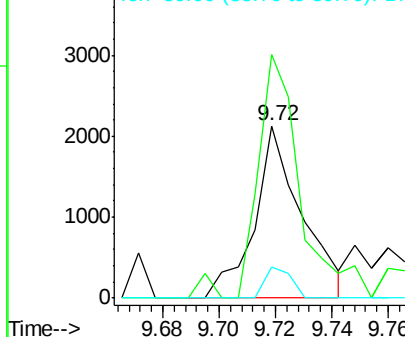


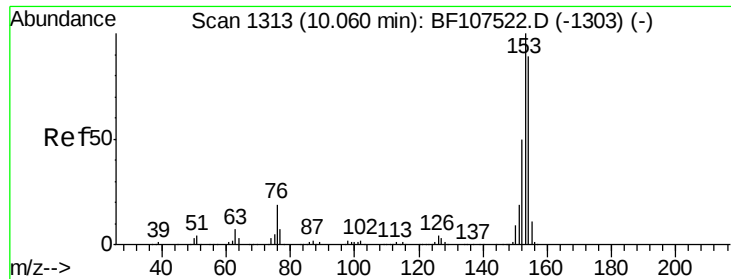
#50  
2,6-Dinitrotoluene  
Concen: 0.306 ng  
RT: 9.72 min Scan# 1255  
Delta R.T. -0.09 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:165 Resp: 2469  
Ion Ratio Lower Upper  
165 100  
63 141.2 44.7 67.1#  
89 18.2 44.0 66.0#



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

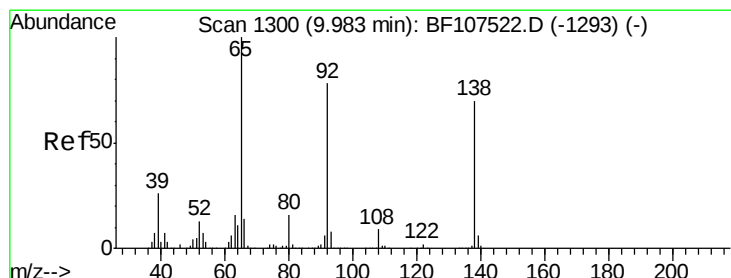
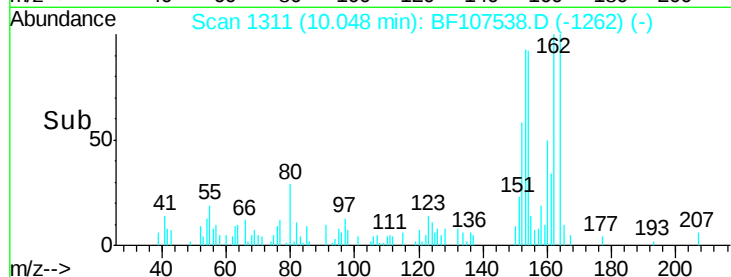
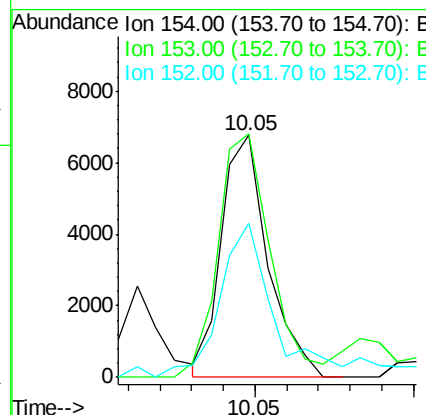
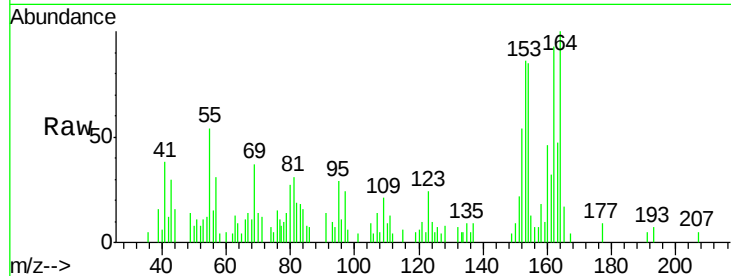




#51  
Acenaphthene  
Concen: 0.203 ng  
RT: 10.05 min Scan# 1311  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

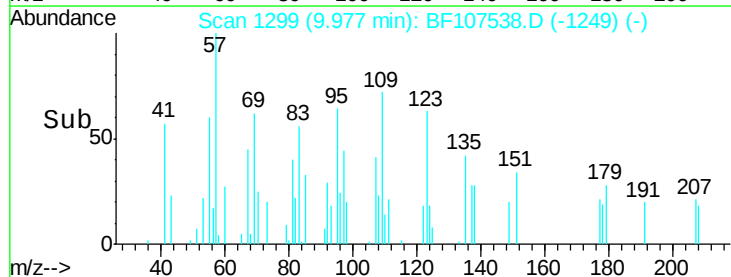
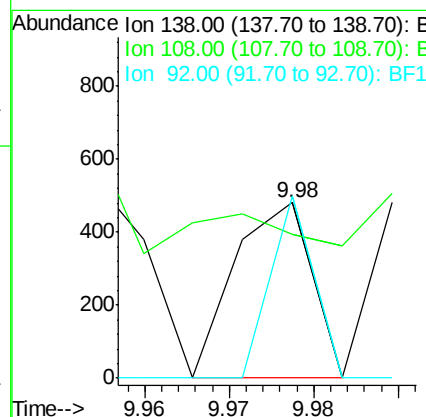
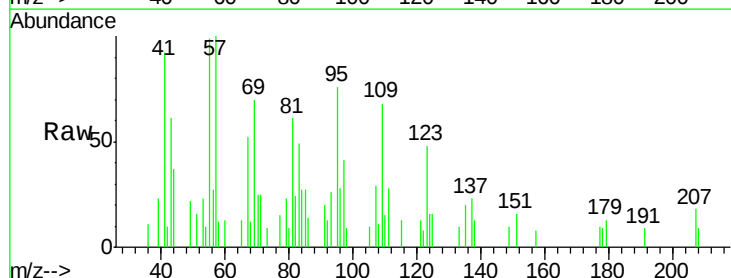
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

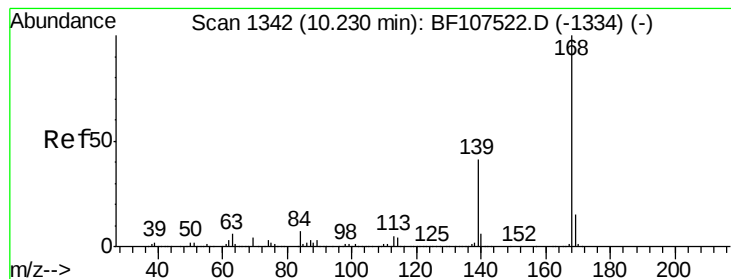
Tgt Ion:154 Resp: 6862  
Ion Ratio Lower Upper  
154 100  
153 100.6 91.2 136.8  
152 63.4 43.8 65.8



#52  
3-Nitroaniline  
Concen: 0.031 ng  
RT: 9.98 min Scan# 1299  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:138 Resp: 304  
Ion Ratio Lower Upper  
138 100  
108 81.9 9.4 14.0#  
92 103.5 89.4 134.2





#54

Dibenzenofuran

Concen: 0.182 ng

RT: 10.22 min Scan# 1340

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

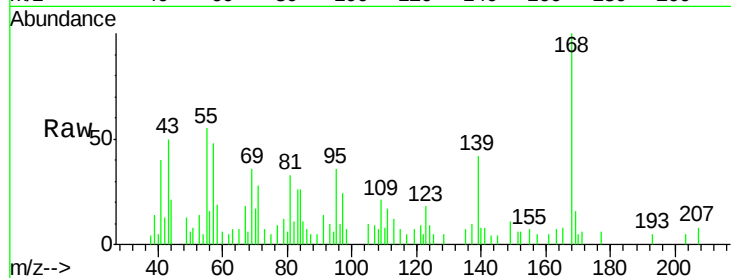
Tgt Ion:168 Resp: 9045

Ion Ratio Lower Upper

168 100

139 41.8 30.1 45.1

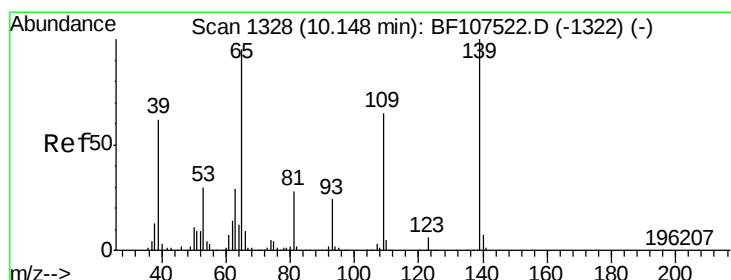
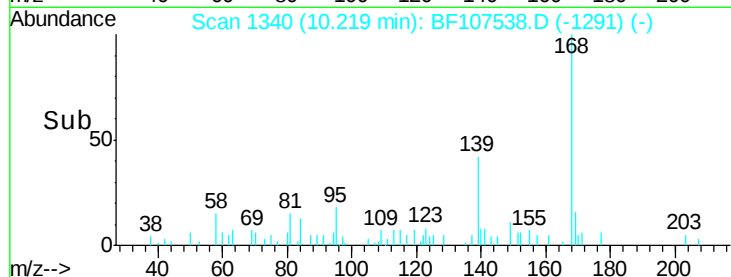
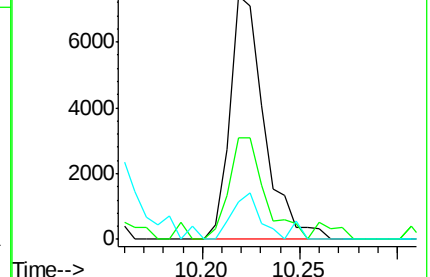
169 15.5 10.9 16.3



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: 0.114 ng

RT: 10.15 min Scan# 1329

Delta R.T. 0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

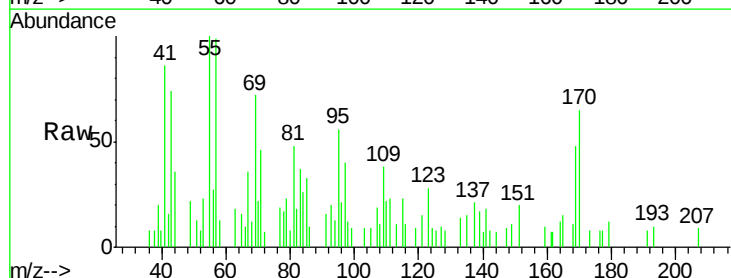
Tgt Ion:139 Resp: 837

Ion Ratio Lower Upper

139 100

109 230.6 48.4 88.4#

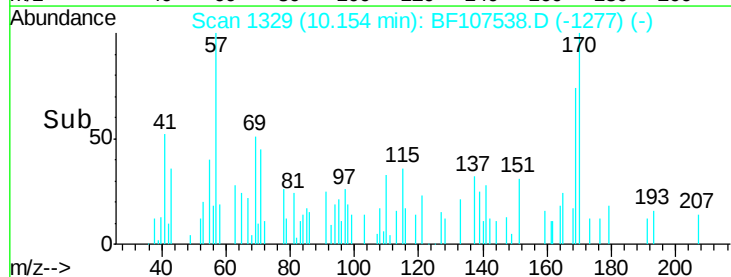
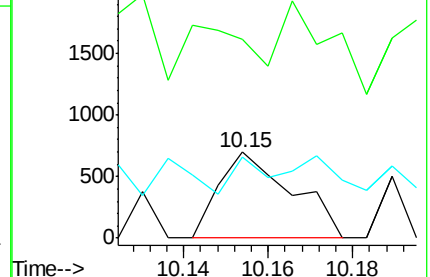
65 93.7 72.6 112.6

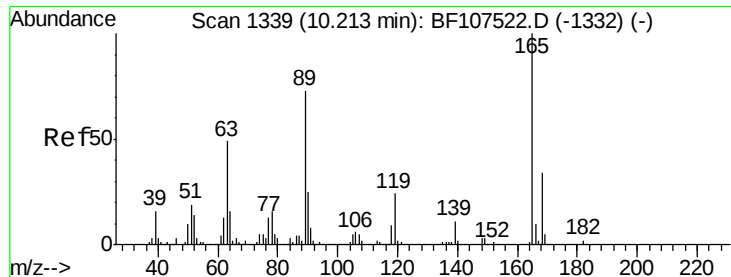


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

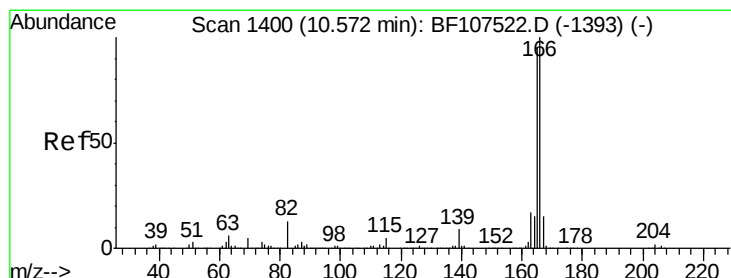
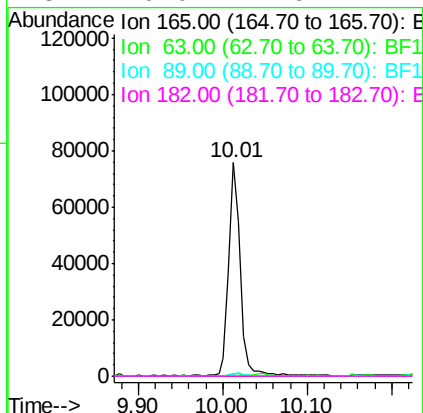
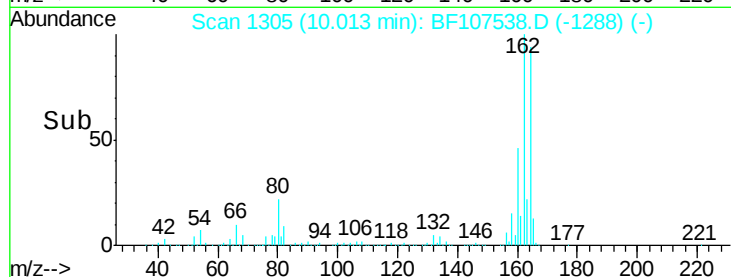
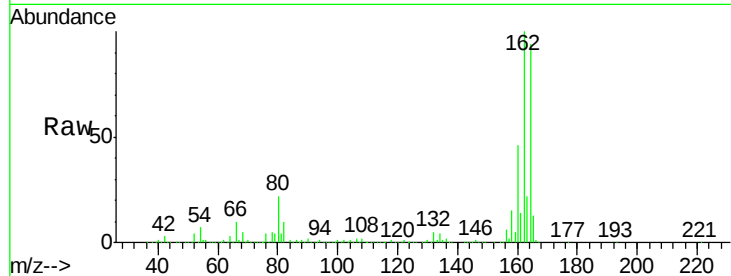




#56  
2,4-Dinitrotoluene  
Concen: 7.475 ng  
RT: 10.01 min Scan# 1305  
Delta R.T. -0.20 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

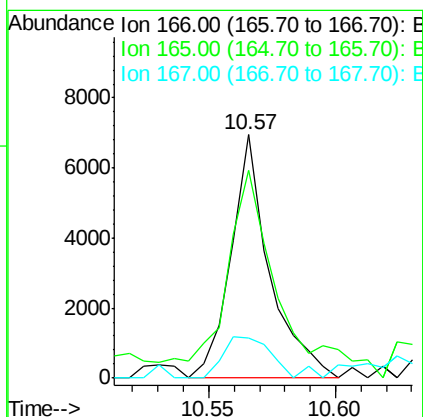
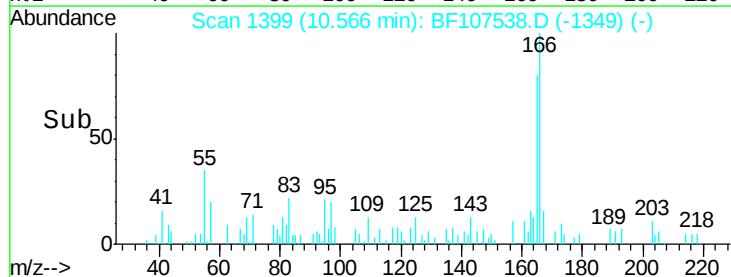
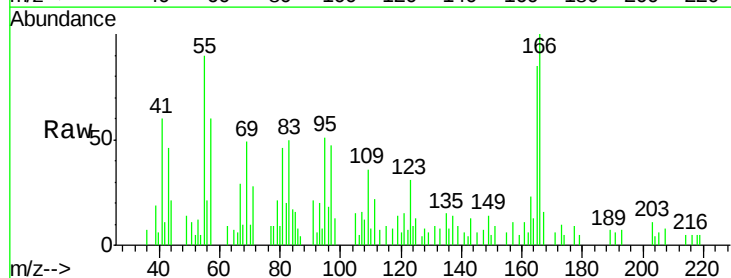
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

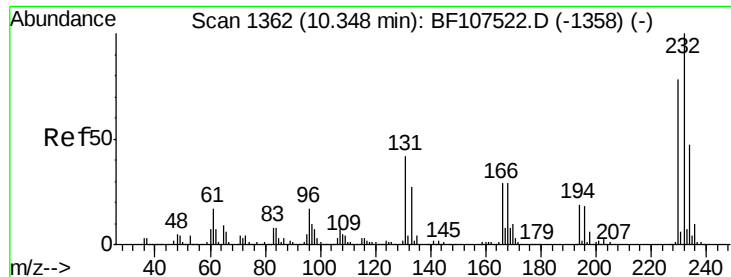
Tgt Ion:165 Resp: 72737  
Ion Ratio Lower Upper  
165 100  
63 1.1 36.4 54.6#  
89 0.9 57.8 86.6#  
182 0.0 1.6 2.4#



#57  
Fluorene  
Concen: 0.207 ng  
RT: 10.57 min Scan# 1399  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:166 Resp: 7323  
Ion Ratio Lower Upper  
166 100  
165 85.1 79.8 119.8  
167 16.3 10.6 16.0#

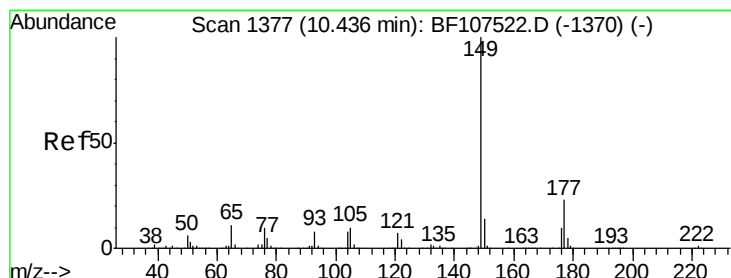
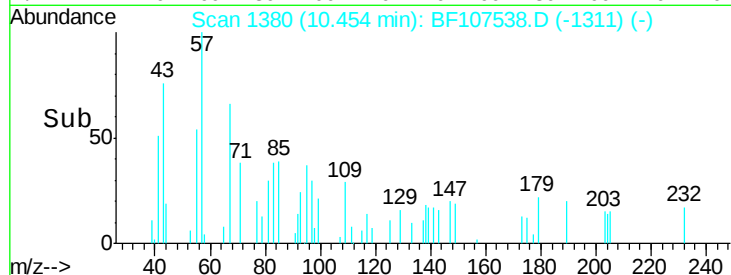
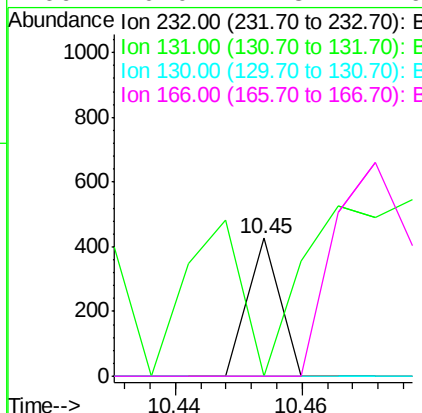
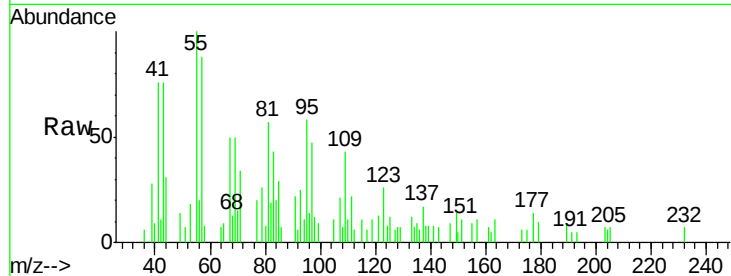




#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 0.015 ng  
 RT: 10.45 min Scan# 1380  
 Delta R.T. 0.11 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

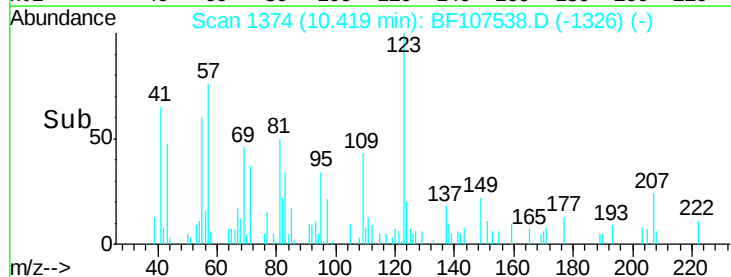
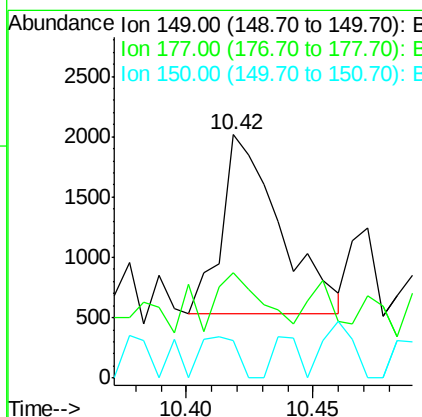
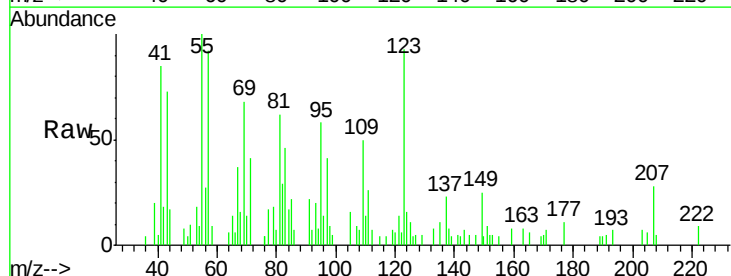
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

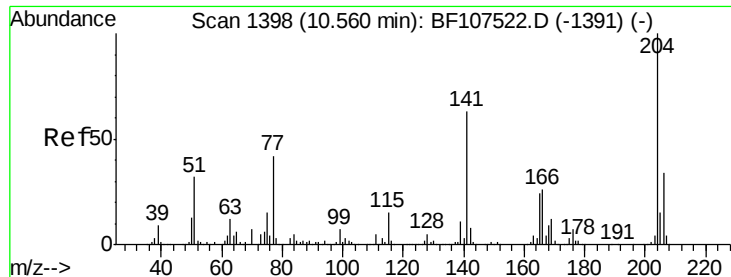
Tgt Ion:232 Resp: 150  
 Ion Ratio Lower Upper  
 232 100  
 131 289.3 43.8 65.8#  
 130 0.0 2.1 3.1#  
 166 0.0 27.8 41.6#



#59  
 Diethylphthalate  
 Concen: 0.055 ng  
 RT: 10.42 min Scan# 1374  
 Delta R.T. -0.02 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:149 Resp: 2352  
 Ion Ratio Lower Upper  
 149 100  
 177 43.1 16.1 24.1#  
 150 15.5 10.1 15.1#

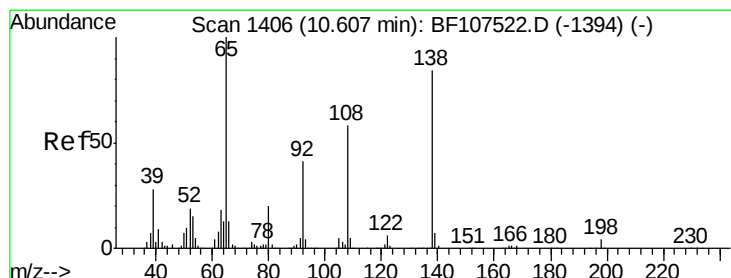
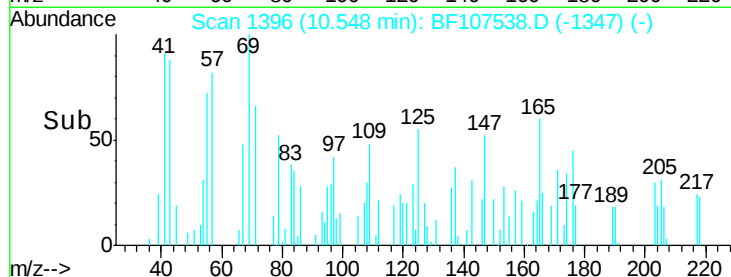
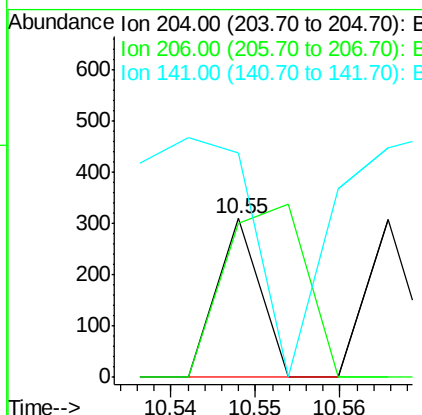
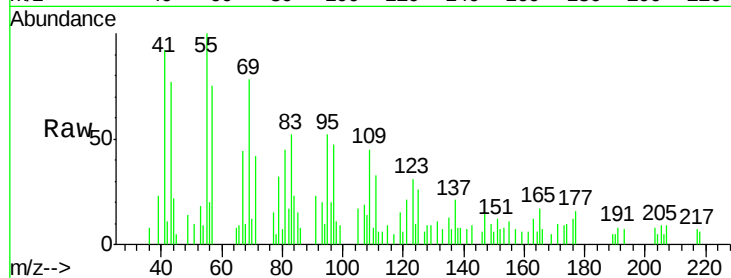




#60  
4-Chlorophenyl-phenylether  
Concen: 0.005 ng  
RT: 10.55 min Scan# 1396  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

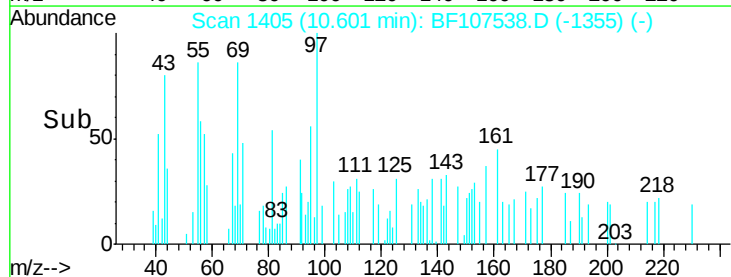
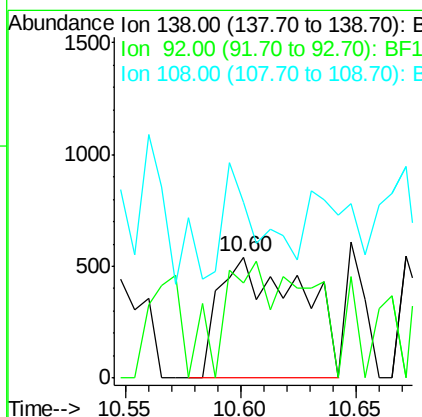
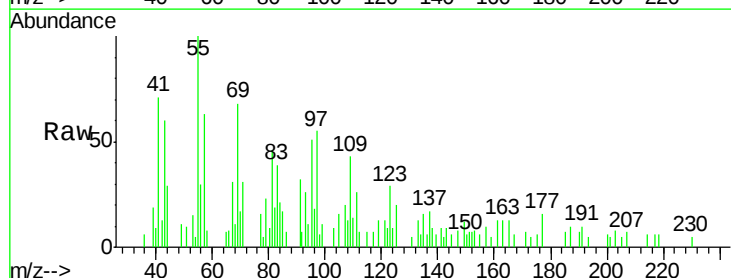
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

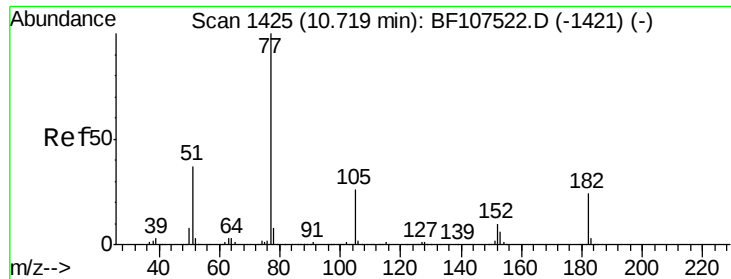
Tgt Ion: 204 Resp: 109  
Ion Ratio Lower Upper  
204 100  
206 97.1 26.5 39.7#  
141 141.0 54.6 81.8#



#61  
4-Nitroaniline  
Concen: 0.160 ng  
RT: 10.60 min Scan# 1405  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion: 138 Resp: 1321  
Ion Ratio Lower Upper  
138 100  
92 78.3 30.2 70.2#  
108 146.1 52.5 92.5#





#62

Azobenzene

Concen: 0.030 ng

RT: 10.71 min Scan# 1424

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

Tgt Ion: 77 Resp: 1186

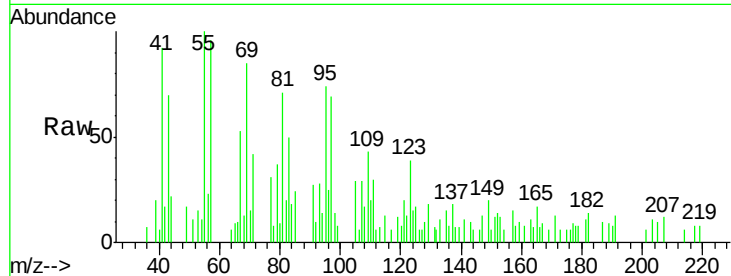
Ion Ratio Lower Upper

77 100

182 45.7 1.7 41.7#

105 94.1 3.0 43.0#

51 34.4 9.9 49.9

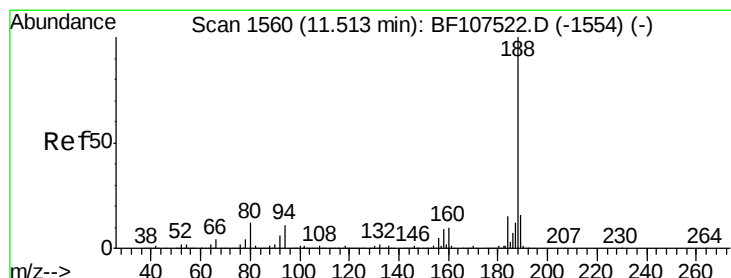
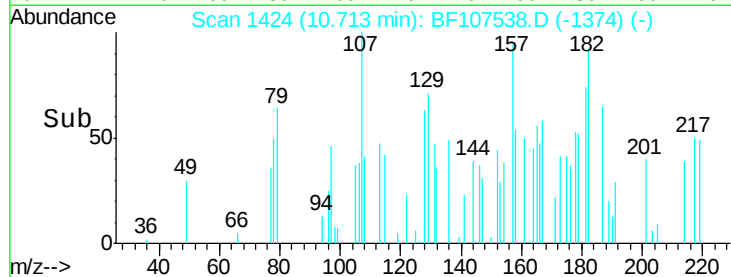
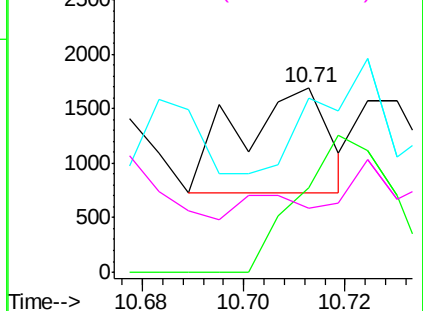


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1559

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

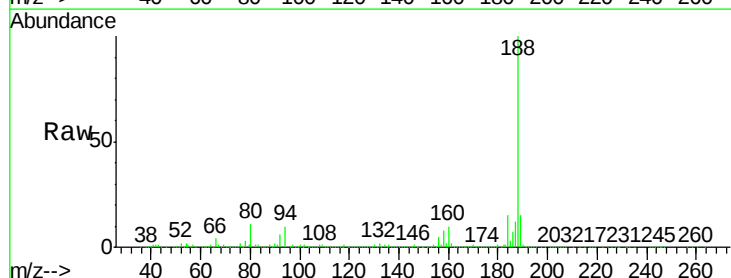
Tgt Ion: 188 Resp: 953280

Ion Ratio Lower Upper

188 100

94 10.3 8.5 12.7

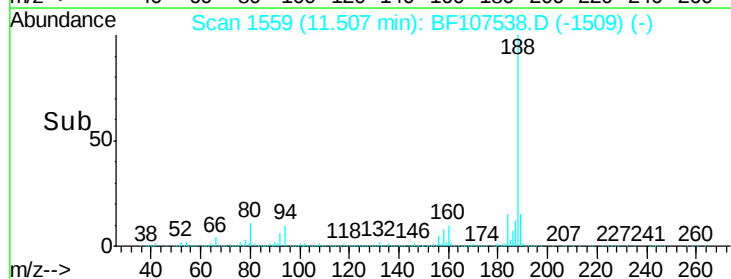
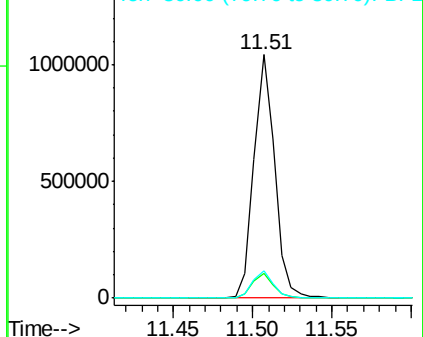
80 11.1 9.2 13.8

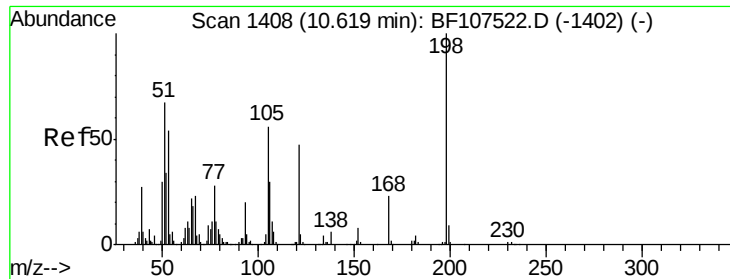


Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

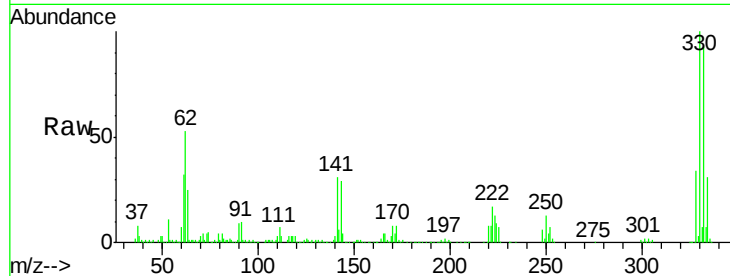




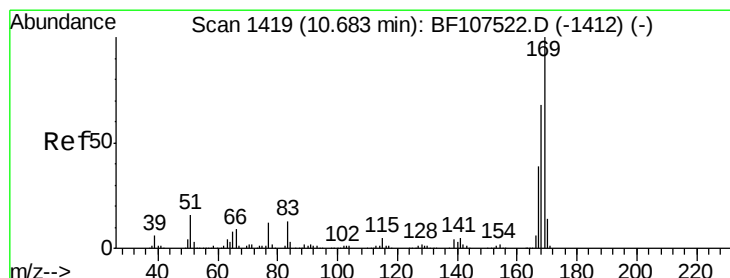
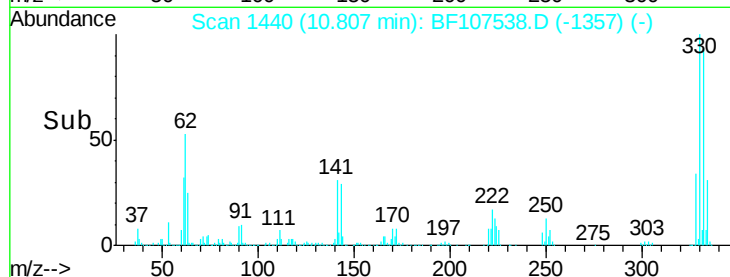
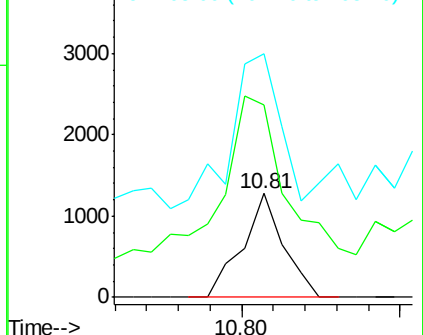
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.885 ng  
 RT: 10.81 min Scan# 1440  
 Delta R.T. 0.19 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Instrument :  
 BNA\_F  
 ClientSampled :  
 LS-SOIL-4

Tgt Ion:198 Resp: 1149  
 Ion Ratio Lower Upper  
 198 100  
 51 186.2 37.7 77.7#  
 105 235.0 36.3 76.3#

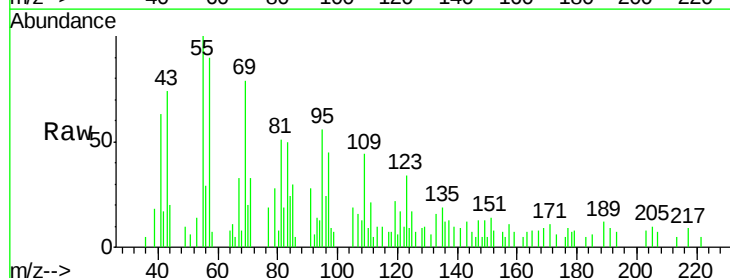


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

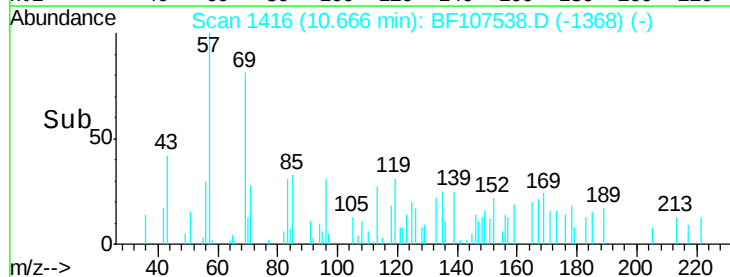
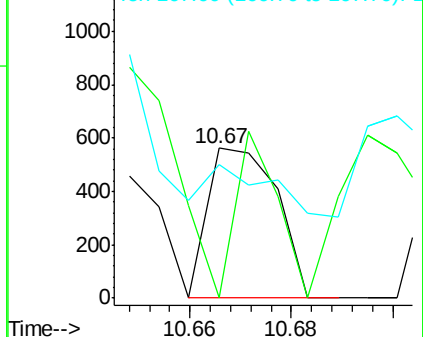


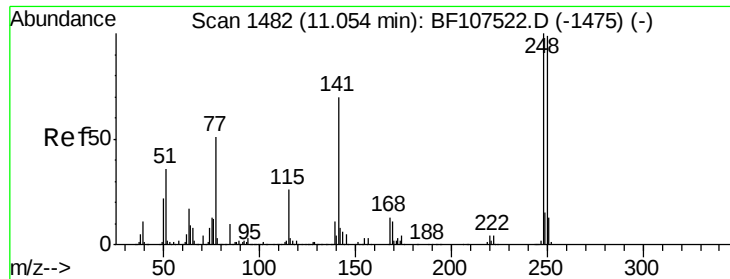
#65  
 n-Nitrosodiphenylamine  
 Concen: 0.017 ng  
 RT: 10.67 min Scan# 1416  
 Delta R.T. -0.02 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:169 Resp: 535  
 Ion Ratio Lower Upper  
 169 100  
 168 0.0 54.4 81.6#  
 167 89.0 29.8 44.6#



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

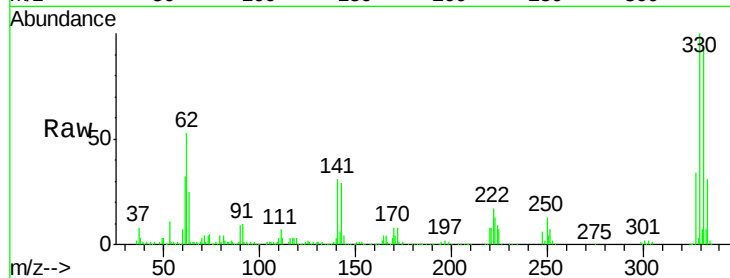




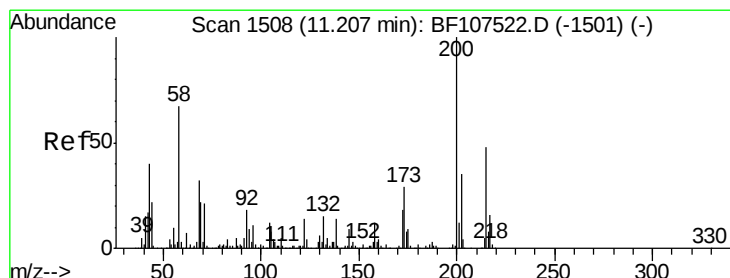
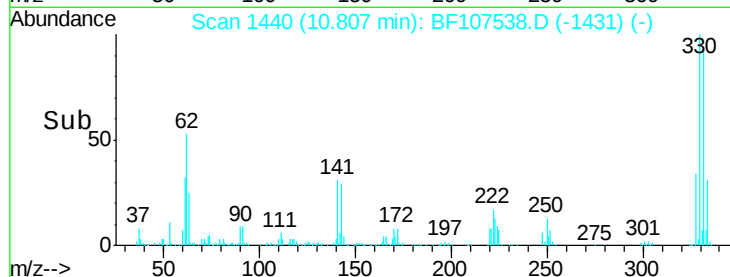
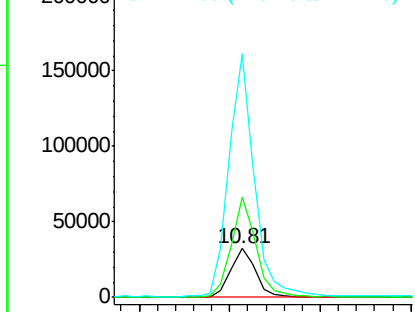
#66  
4-Bromophenyl-phenylether  
Concen: 2.803 ng  
RT: 10.81 min Scan# 1440  
Delta R.T. -0.25 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

Tgt Ion:248 Resp: 31459  
Ion Ratio Lower Upper  
248 100  
250 204.6 76.9 115.3#  
141 499.3 74.4 111.6#

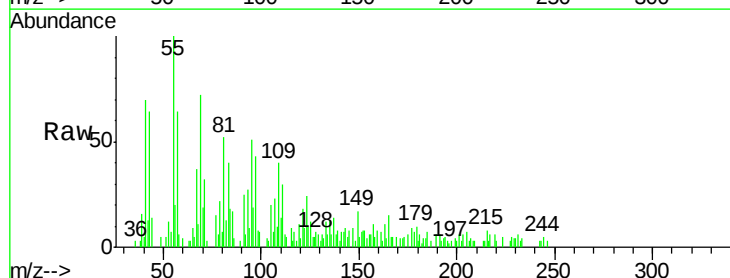


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

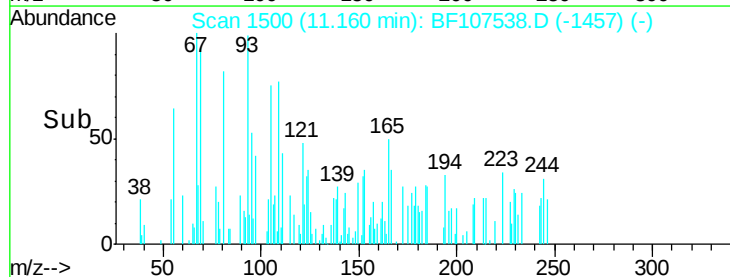
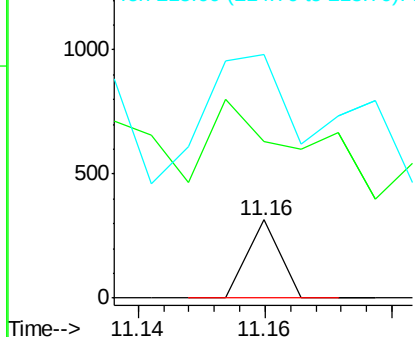


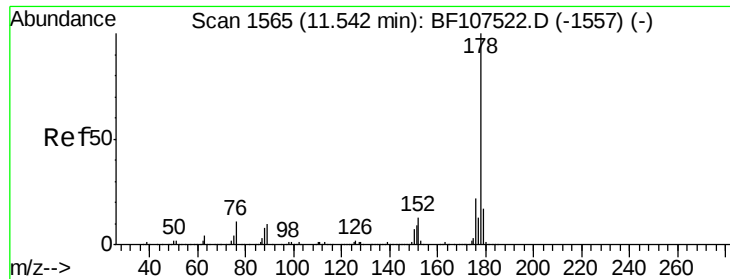
#68  
Atrazine  
Concen: 0.011 ng  
RT: 11.16 min Scan# 1500  
Delta R.T. -0.05 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:200 Resp: 111  
Ion Ratio Lower Upper  
200 100  
173 200.6 8.6 48.6#  
215 311.4 25.1 65.1#



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

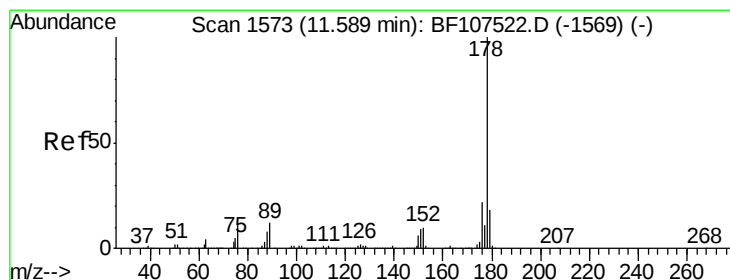
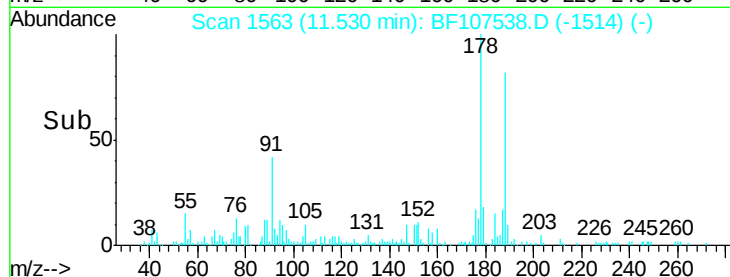
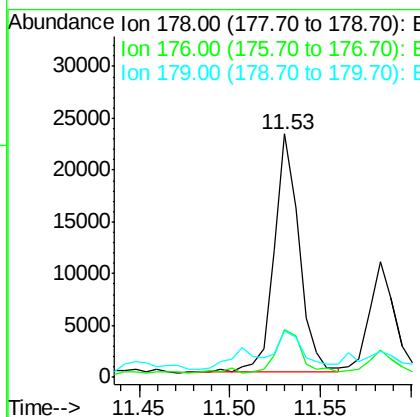
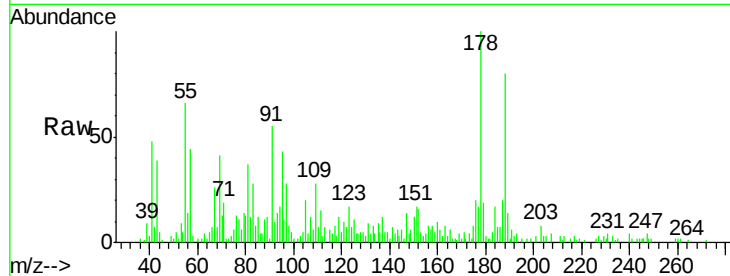




#70  
Phenanthrene  
Concen: 0.477 ng  
RT: 11.53 min Scan# 1563  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

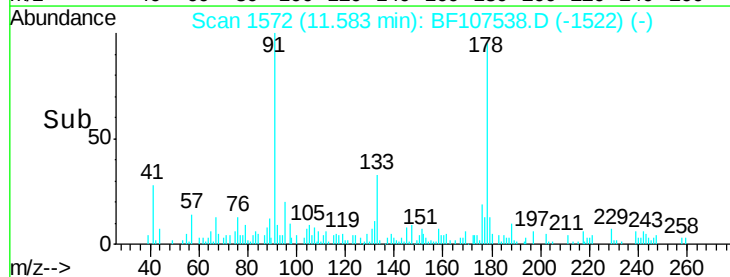
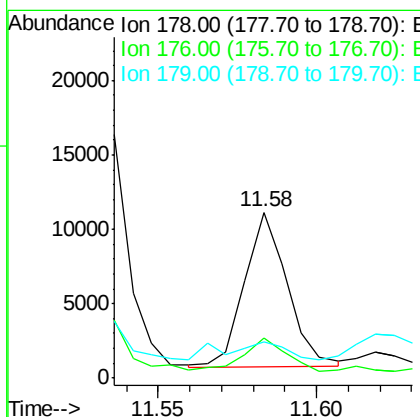
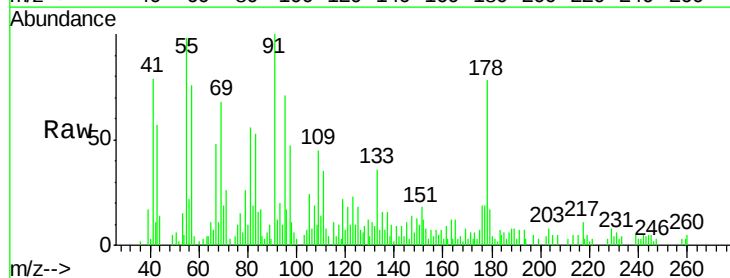
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

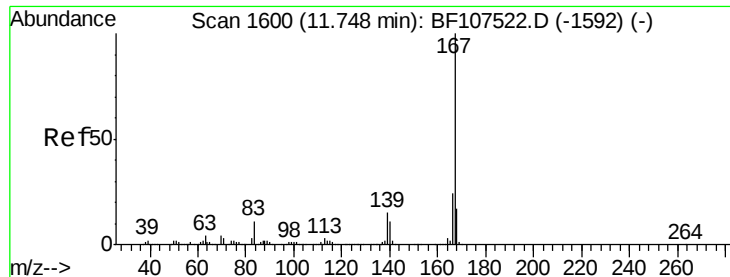
Tgt Ion:178 Resp: 22167  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.8 23.8  
179 19.2 13.0 19.6



#71  
Anthracene  
Concen: 0.210 ng  
RT: 11.58 min Scan# 1572  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:178 Resp: 9834  
Ion Ratio Lower Upper  
178 100  
176 23.9 15.4 23.2#  
179 22.2 12.6 19.0#





#72

Carbazole

Concen: 0.079 ng

RT: 11.74 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampled :

LS-SOIL-4

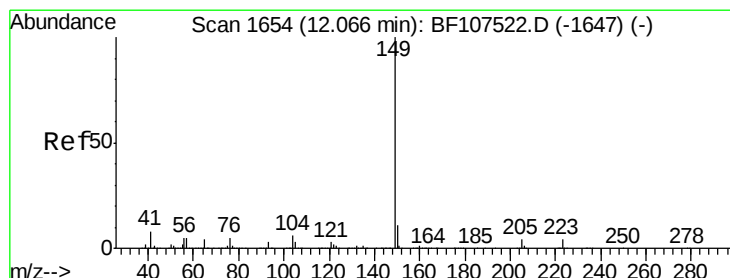
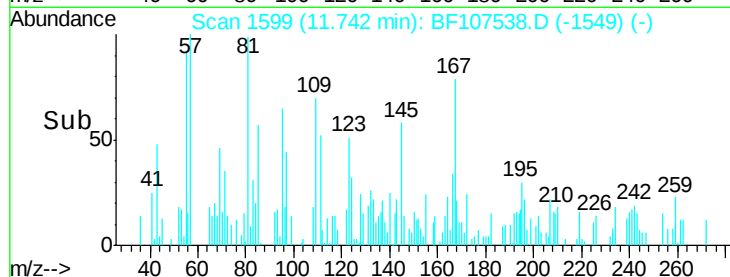
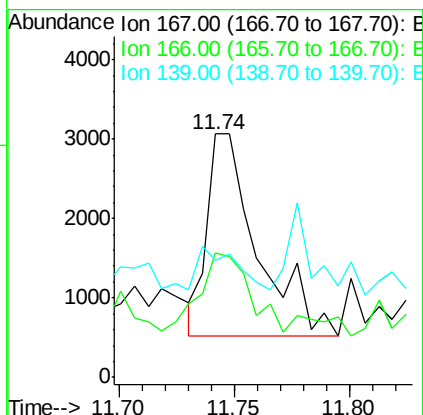
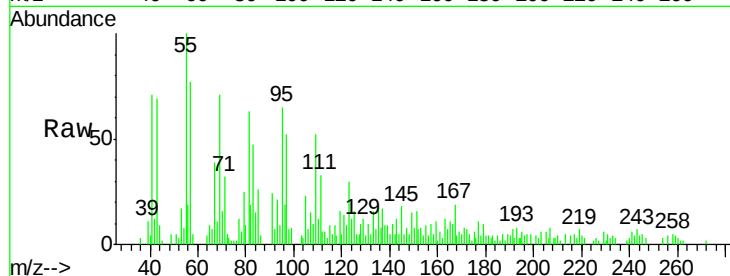
Tgt Ion:167 Resp: 3855

Ion Ratio Lower Upper

167 100

166 51.4 17.6 26.4#

139 47.8 10.9 16.3#



#73

Di-n-butylphthalate

Concen: Below Cal

RT: 12.05 min Scan# 1652

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

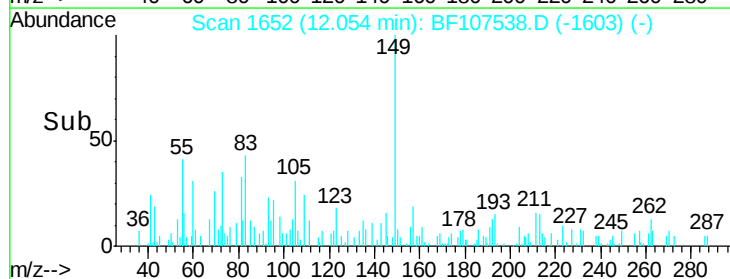
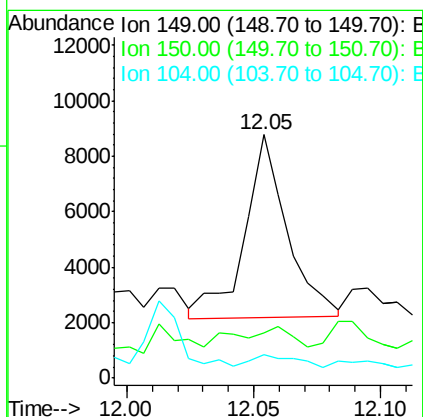
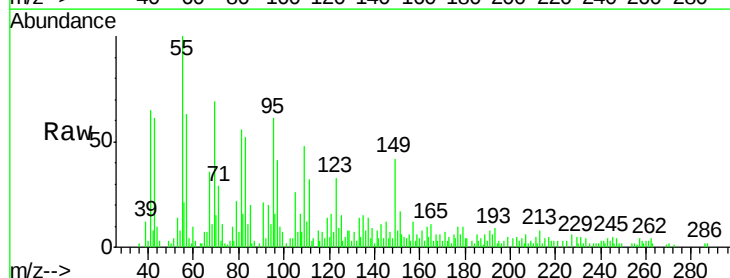
Tgt Ion:149 Resp: 7715

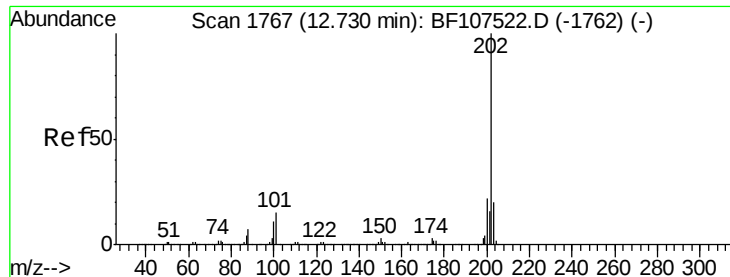
Ion Ratio Lower Upper

149 100

150 18.8 7.8 11.6#

104 9.8 3.8 5.8#





#74

Fluoranthene

Concen: 0.991 ng

RT: 12.72 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

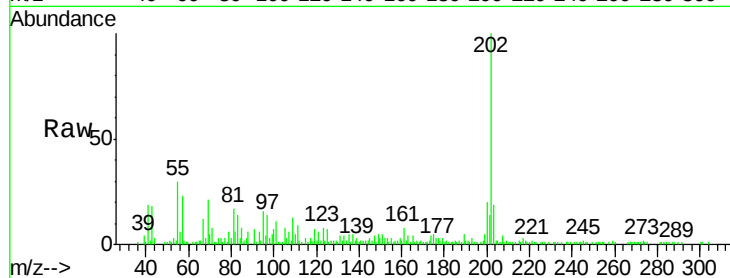
Tgt Ion:202 Resp: 49380

Ion Ratio Lower Upper

202 100

101 11.1 0.0 34.1

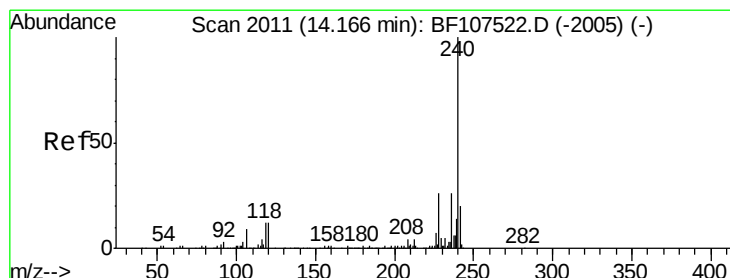
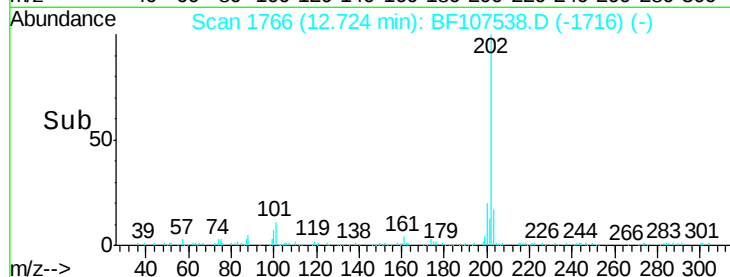
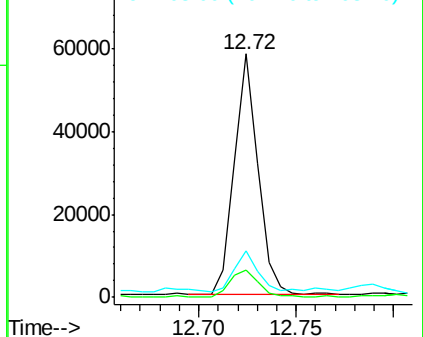
203 19.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

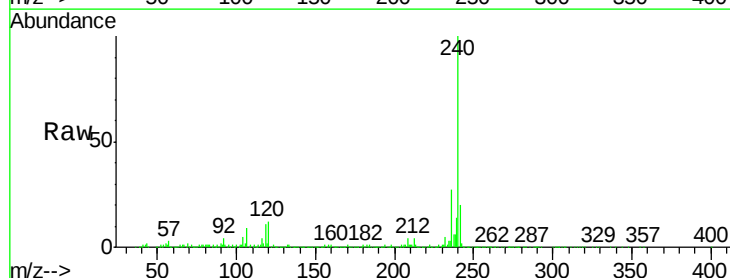
Tgt Ion:240 Resp: 676302

Ion Ratio Lower Upper

240 100

120 12.4 9.5 14.3

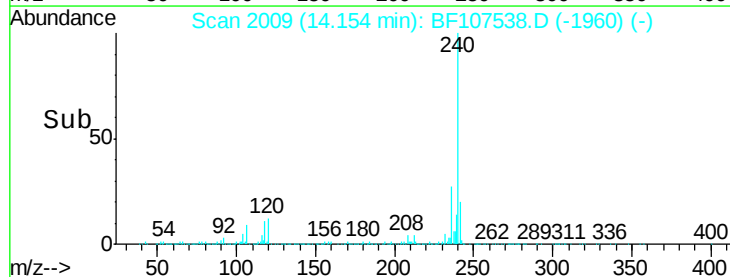
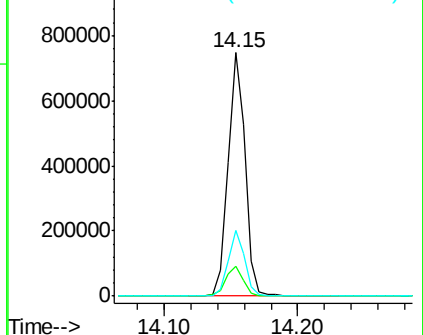
236 26.9 20.7 31.1

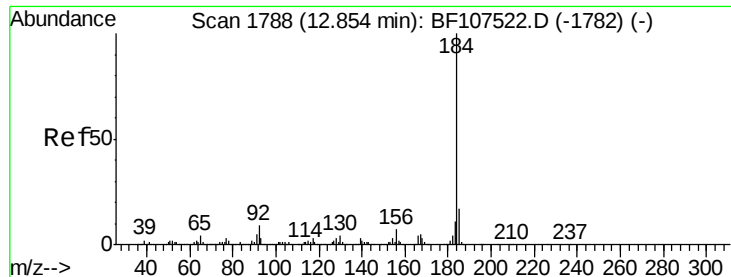


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 0.032 ng

RT: 12.81 min Scan# 1781

Delta R.T. -0.04 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

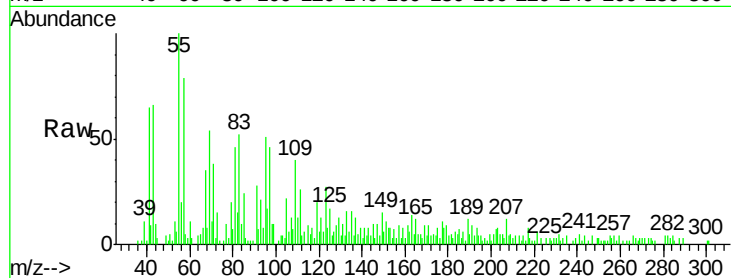
Tgt Ion:184 Resp: 629

Ion Ratio Lower Upper

184 100

185 152.1 12.6 18.8#

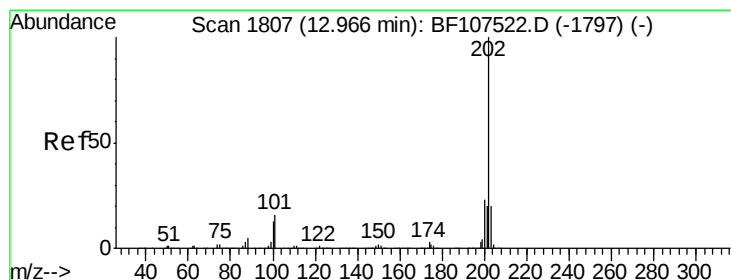
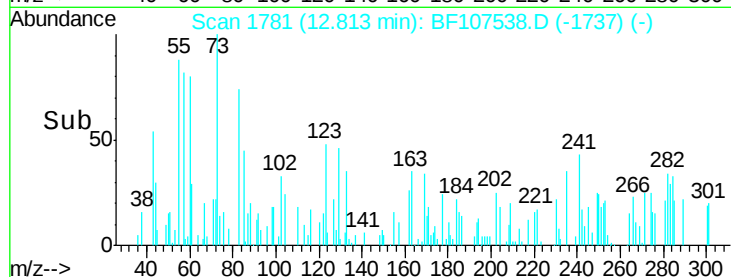
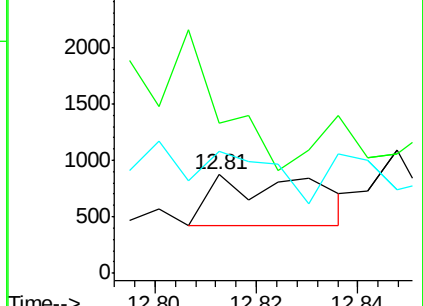
183 123.2 9.3 13.9#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 1.156 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

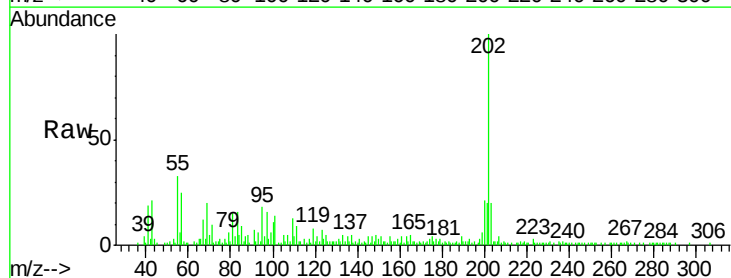
Tgt Ion:202 Resp: 53475

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

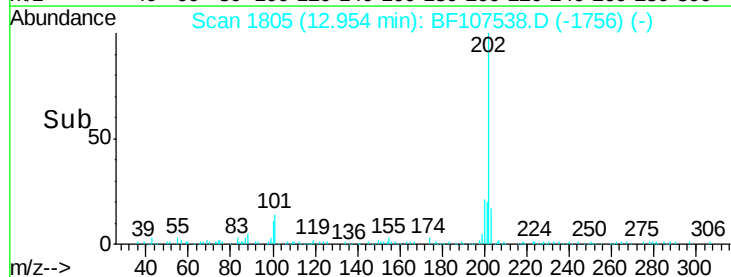
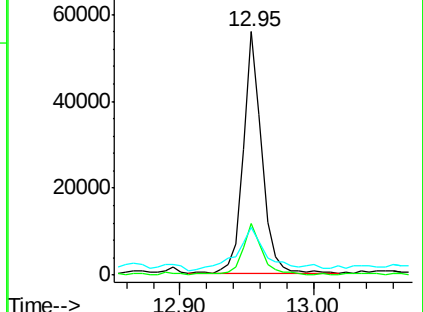
203 19.7 14.3 21.5

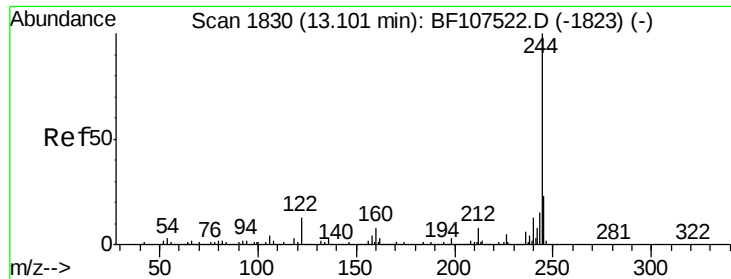


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

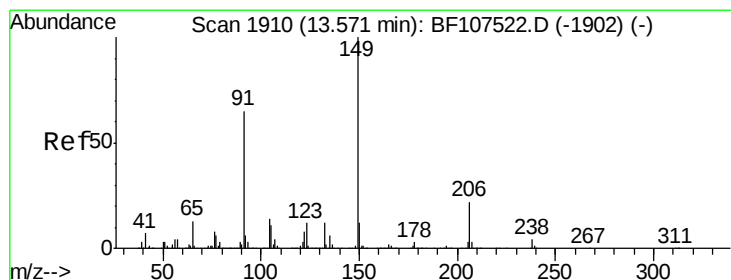
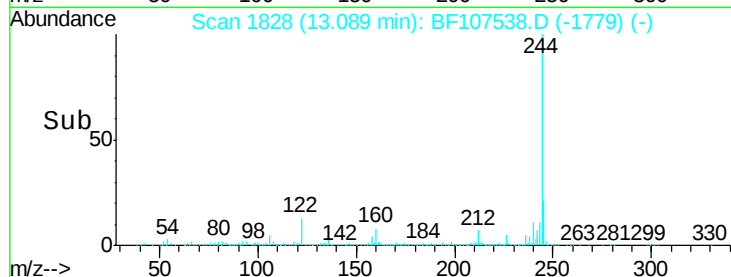
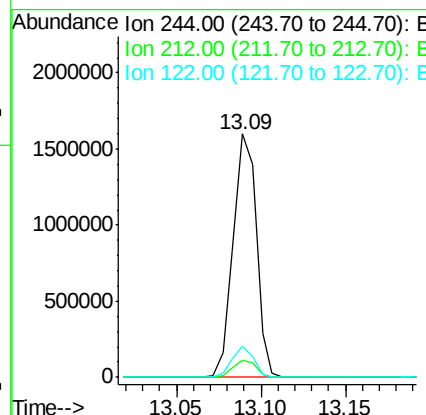
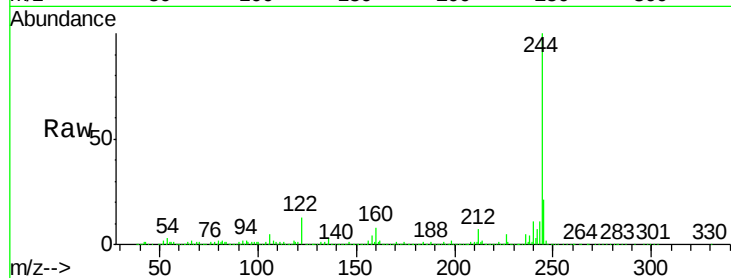




#78  
 Terphenyl-d14  
 Concen: 57.887 ng  
 RT: 13.09 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

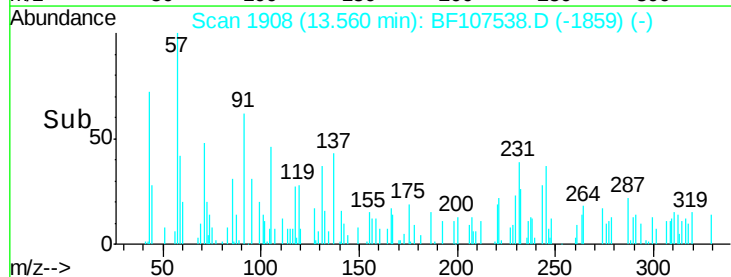
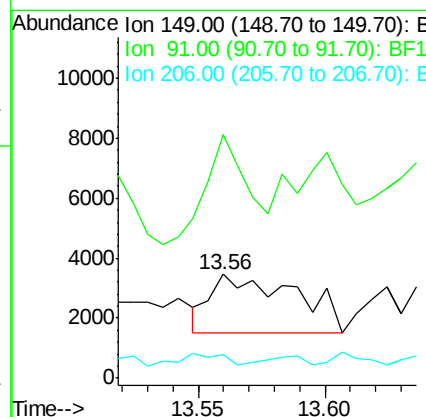
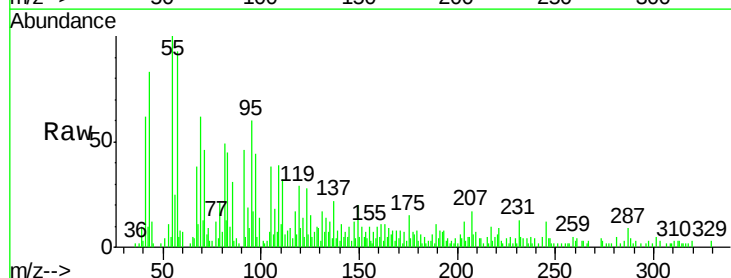
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LS-SOIL-4

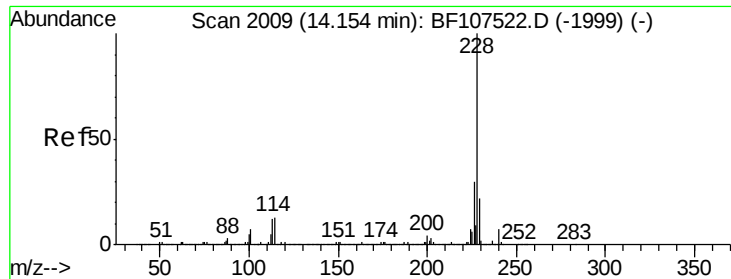
Tgt Ion:244 Resp: 1529218  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 5.4 8.0  
 122 13.0 11.0 16.4



#79  
 Butylbenzylphthalate  
 Concen: 0.228 ng  
 RT: 13.56 min Scan# 1908  
 Delta R.T. -0.01 min  
 Lab File: BF107538.D  
 Acq: 20 Jul 2018 21:51

Tgt Ion:149 Resp: 4533  
 Ion Ratio Lower Upper  
 149 100  
 91 234.8 56.8 85.2#  
 206 22.8 14.1 21.1#

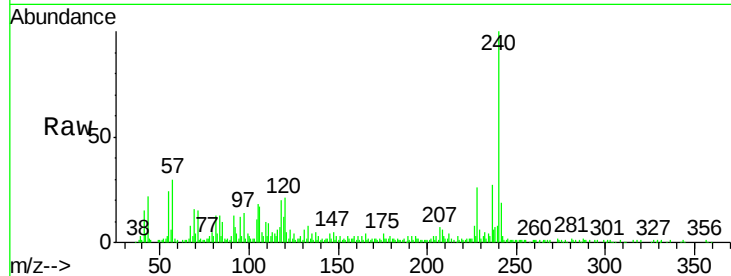




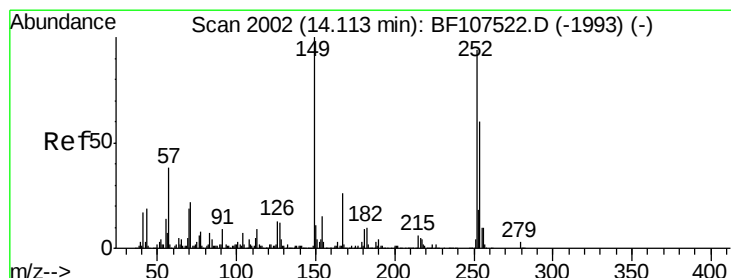
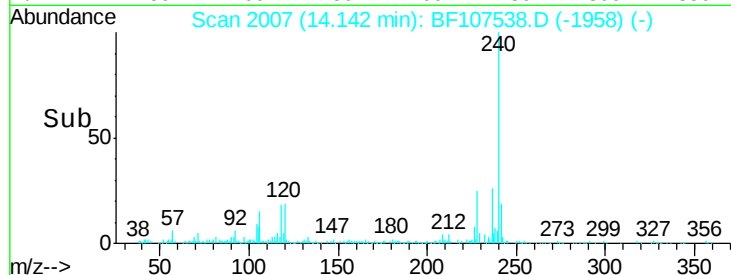
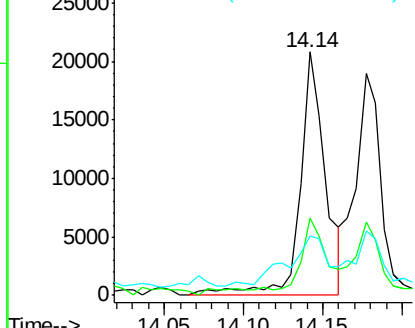
#80  
Benzo(a)anthracene  
Concen: 0.583 ng  
RT: 14.14 min Scan# 2007  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampled :  
LS-SOIL-4

Tgt Ion:228 Resp: 23107  
Ion Ratio Lower Upper  
228 100  
226 32.0 22.6 33.8  
229 24.4 15.8 23.6#

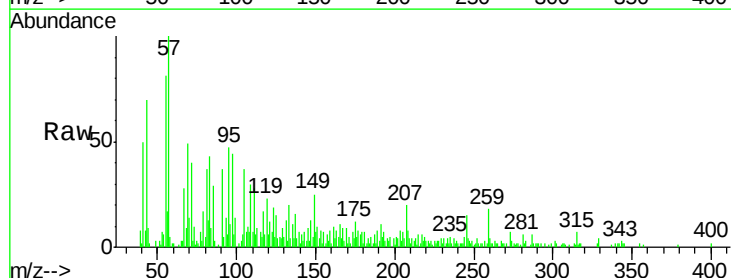


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

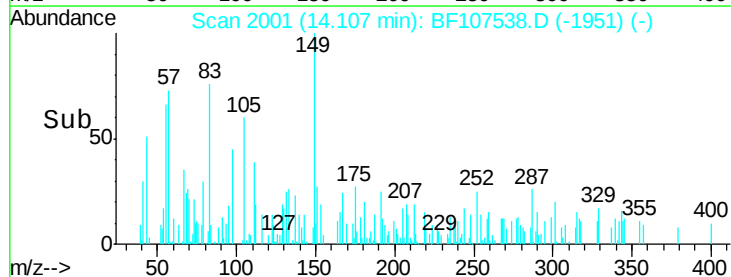
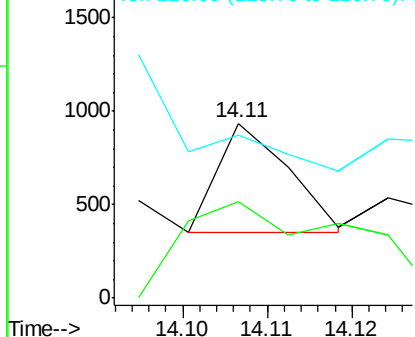


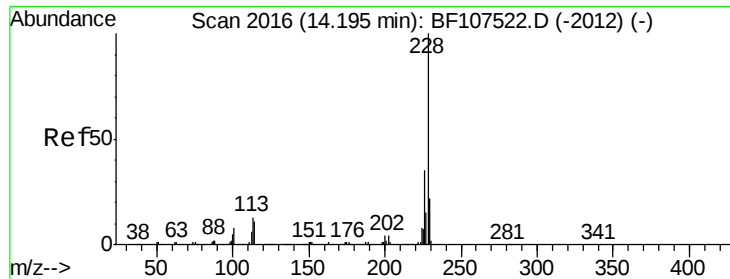
#81  
3,3'-Dichlorobenzidine  
Concen: Below Cal  
RT: 14.11 min Scan# 2001  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:252 Resp: 341  
Ion Ratio Lower Upper  
252 100  
254 54.9 50.4 75.6  
126 93.2 11.3 16.9#



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





#82

Chrysene

Concen: 0.548 ng

RT: 14.18 min Scan# 2013

Delta R.T. -0.02 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampled :

LS-SOIL-4

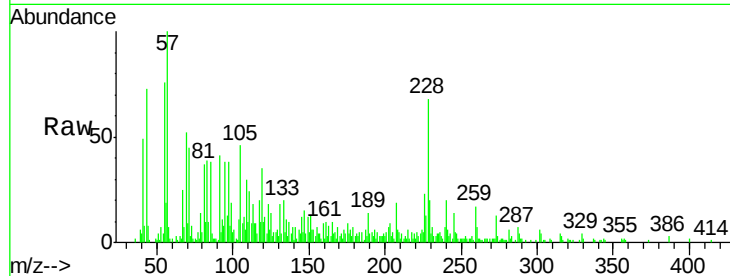
Tgt Ion: 228 Resp: 20863

Ion Ratio Lower Upper

228 100

226 33.1 25.0 37.6

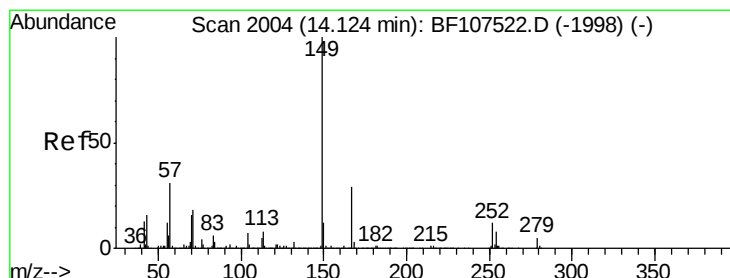
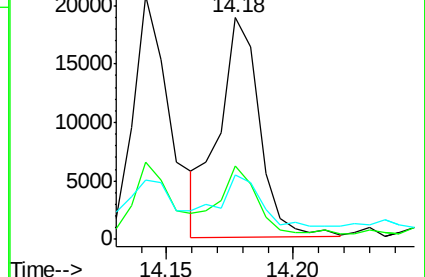
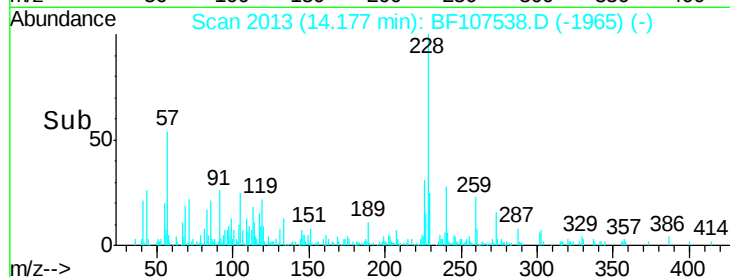
229 28.9 16.2 24.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.292 ng

RT: 14.11 min Scan# 2002

Delta R.T. -0.01 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

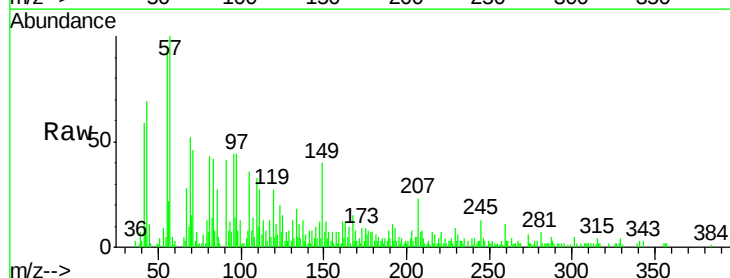
Tgt Ion: 149 Resp: 8185

Ion Ratio Lower Upper

149 100

167 37.8 21.3 31.9#

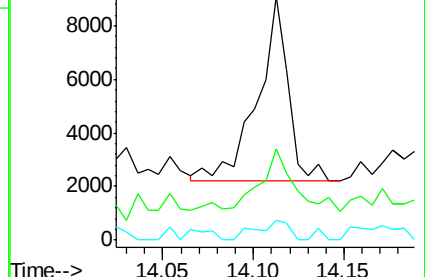
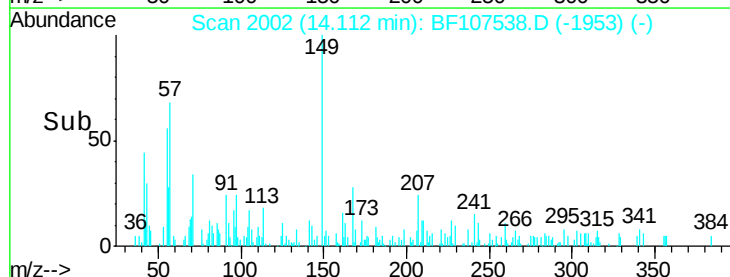
279 8.2 3.0 4.4#

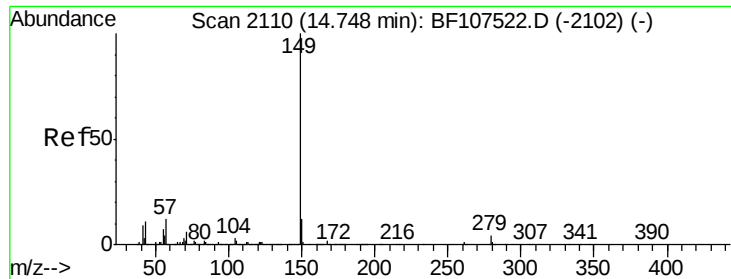


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 0.034 ng

RT: 14.72 min Scan# 2106

Delta R.T. -0.02 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

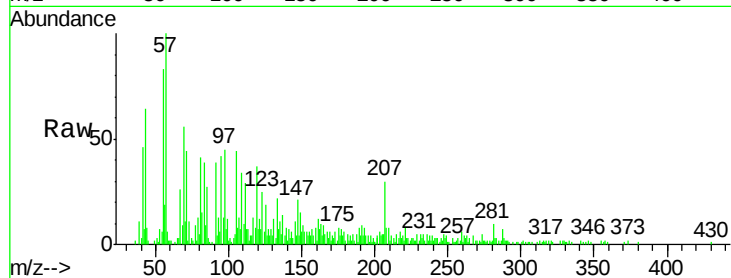
Tgt Ion:149 Resp: 1500

Ion Ratio Lower Upper

149 100

167 0.0 1.2 1.8#

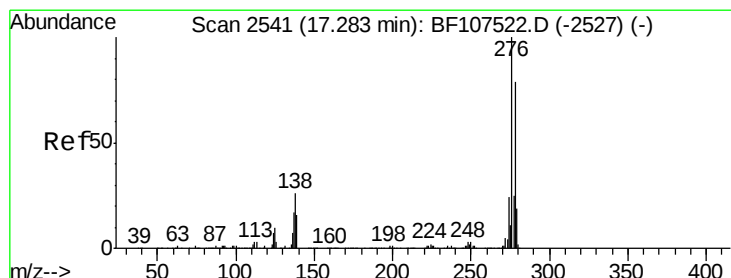
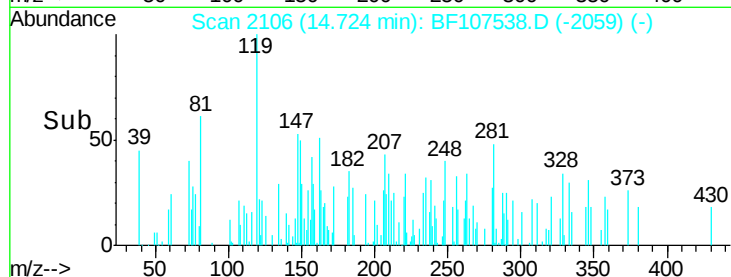
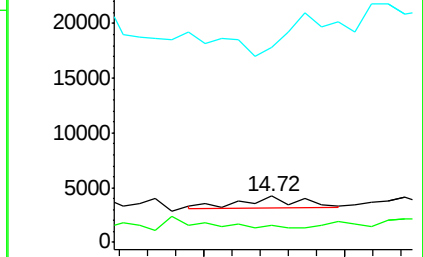
43 0.0 8.4 12.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#85

Indeno(1,2,3-cd)pyrene

Concen: 0.443 ng

RT: 17.24 min Scan# 2534

Delta R.T. -0.04 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

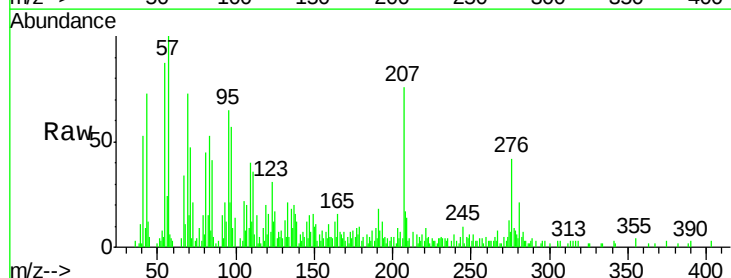
Tgt Ion:276 Resp: 14284

Ion Ratio Lower Upper

276 100

138 38.0 25.0 37.6#

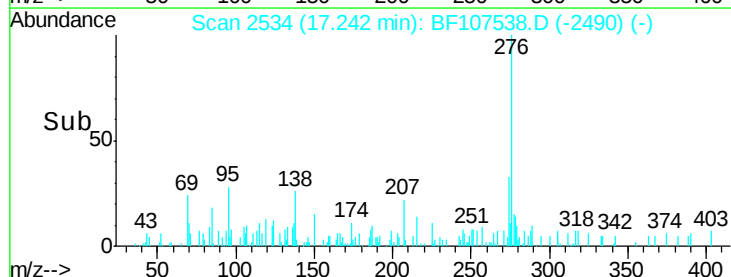
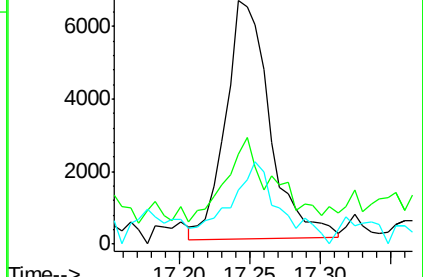
277 38.8 20.1 30.1#

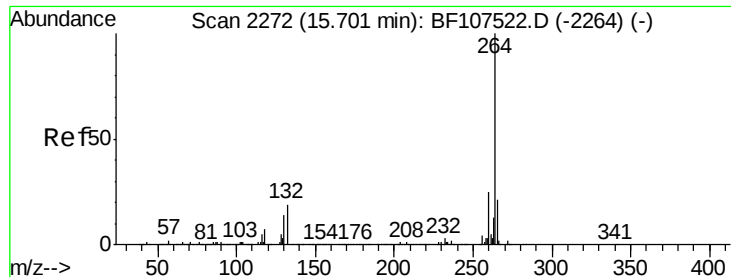


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

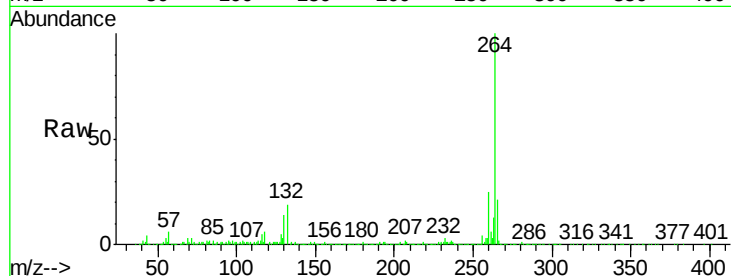




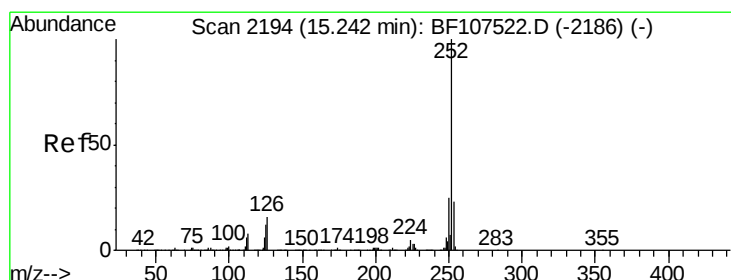
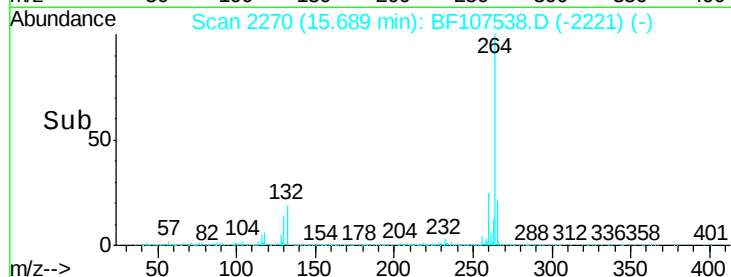
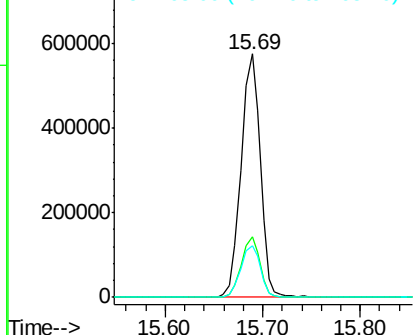
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.69 min Scan# 2270  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

Tgt Ion:264 Resp: 793108  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.2 28.8  
265 21.5 17.5 26.3

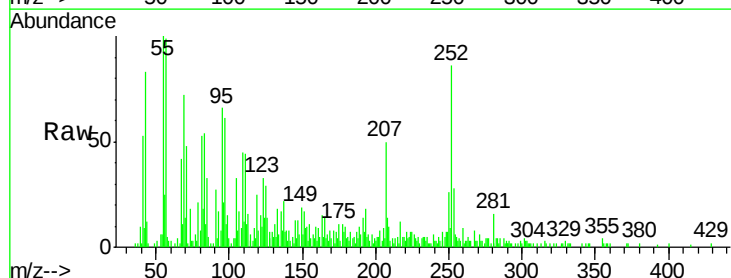


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

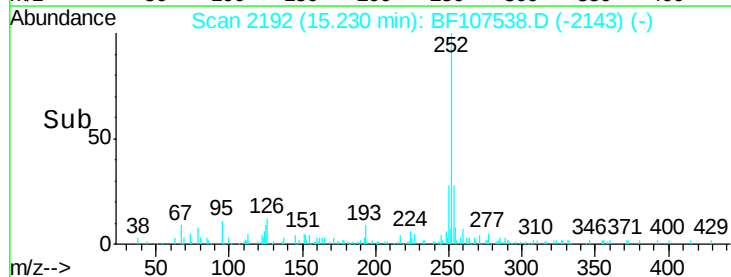
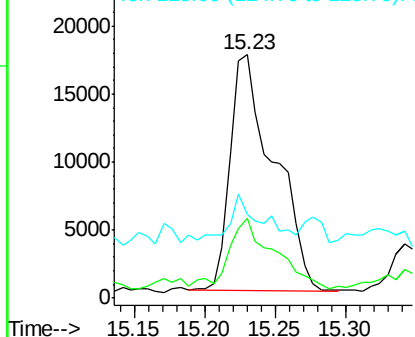


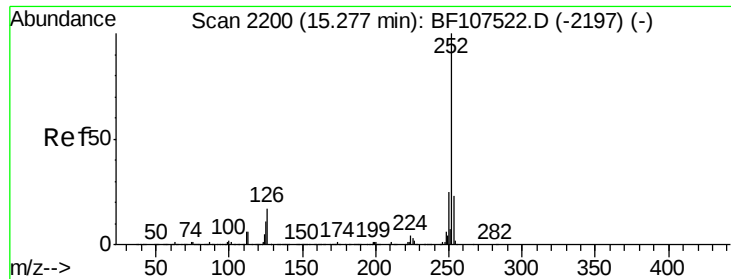
#87  
Benzo(b)fluoranthene  
Concen: 0.866 ng  
RT: 15.23 min Scan# 2192  
Delta R.T. -0.01 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:252 Resp: 37609  
Ion Ratio Lower Upper  
252 100  
253 32.7 17.0 25.6#  
125 34.1 9.0 13.6#



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

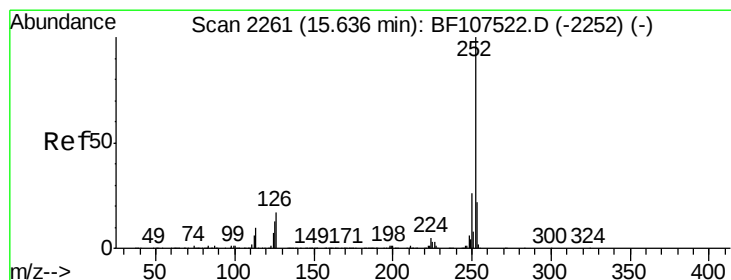
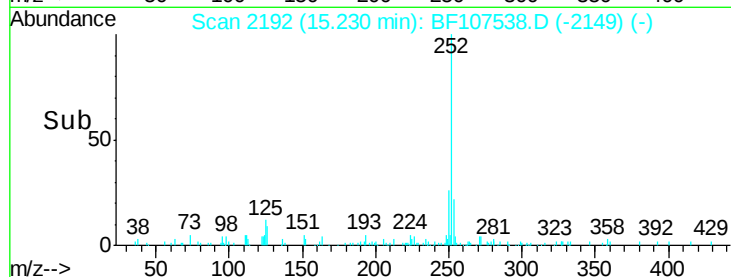
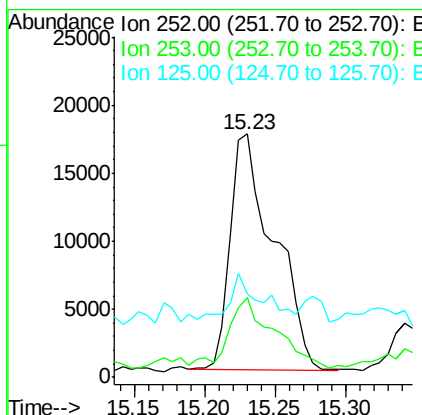
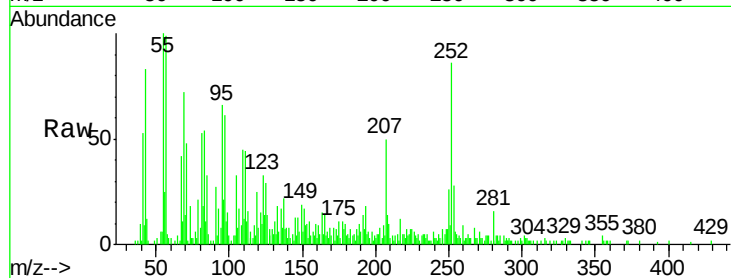




#88  
Benzo(k)fluoranthene  
Concen: 0.884 ng  
RT: 15.23 min Scan# 2192  
Delta R.T. -0.05 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

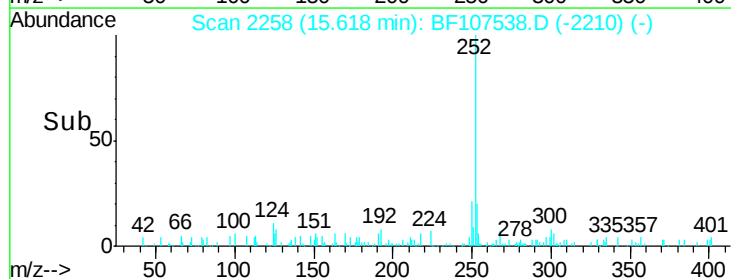
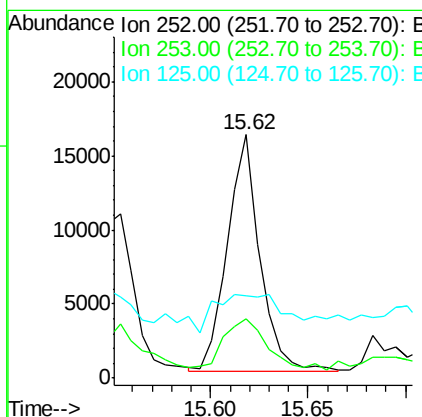
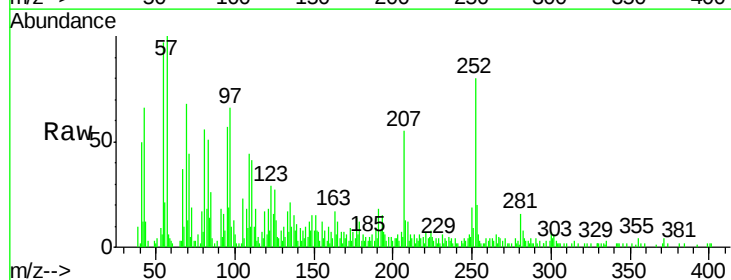
Instrument :  
BNA\_F  
ClientSampleId :  
LS-SOIL-4

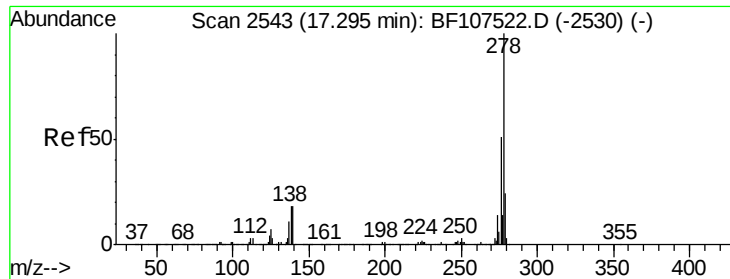
Tgt Ion:252 Resp: 37609  
Ion Ratio Lower Upper  
252 100  
253 32.7 17.9 26.9#  
125 34.1 10.2 15.2#



#89  
Benzo(a)pyrene  
Concen: 0.467 ng  
RT: 15.62 min Scan# 2258  
Delta R.T. -0.02 min  
Lab File: BF107538.D  
Acq: 20 Jul 2018 21:51

Tgt Ion:252 Resp: 18555  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.1 25.7  
125 33.7 9.8 14.6#





#90

Dibenzo(a,h)anthracene

Concen: 0.164 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.04 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

Instrument :

BNA\_F

ClientSampleId :

LS-SOIL-4

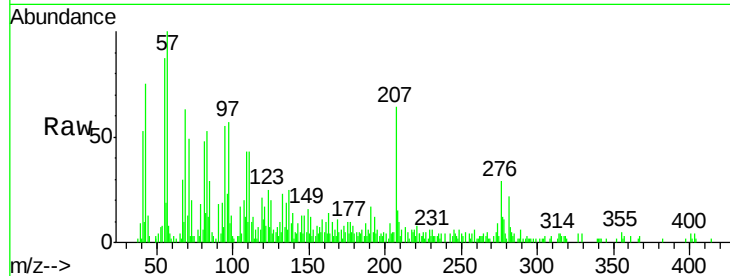
Tgt Ion: 278 Resp: 5636

Ion Ratio Lower Upper

278 100

139 126.6 15.9 23.9#

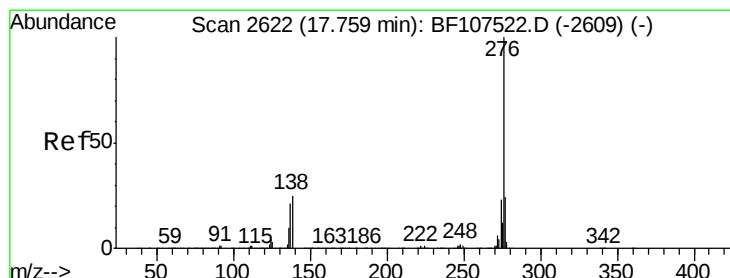
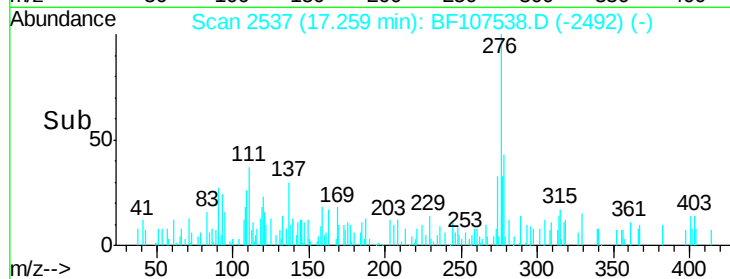
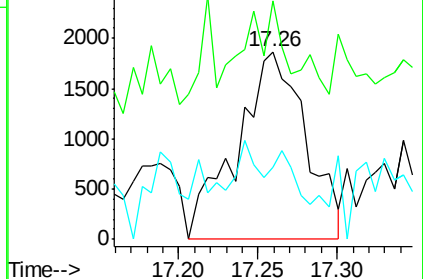
279 38.1 19.0 28.4#



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: 0.449 ng

RT: 17.73 min Scan# 2617

Delta R.T. -0.03 min

Lab File: BF107538.D

Acq: 20 Jul 2018 21:51

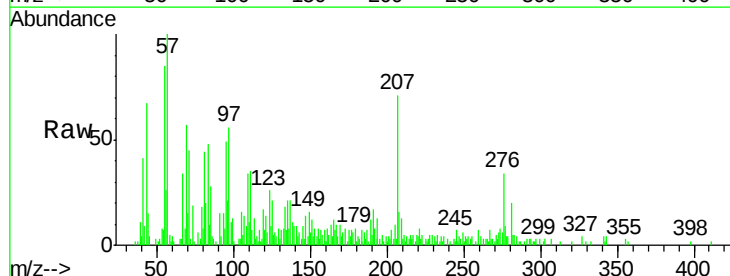
Tgt Ion: 276 Resp: 15214

Ion Ratio Lower Upper

276 100

277 25.3 17.9 26.9

138 32.3 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

