

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF122223\  
 Data File : BF136692.D  
 Acq On : 22 Dec 2023 18:40  
 Operator : CG\JU  
 Sample : 05884-03MSD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-COMP-2MSD

Quant Time: Dec 23 01:53:49 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 71907    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.063  | 136  | 270455   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.816  | 164  | 127227   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.310 | 188  | 211481   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 13.962 | 240  | 124515   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 15.433 | 264  | 142018   | 20.000 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.434  | 112  | 435916   | 94.588 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 552623   | 92.542 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 349556   | 66.137 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 129064   | 86.136 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.139  | 172  | 638082   | 67.455 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.898 | 244  | 497999   | 55.892 | ng    | -0.02    |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.610  | 88   | 71057    | 37.005 | ng    | 98       |
| 3) Pyridine                   | 3.369  | 79   | 172835   | 36.890 | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.334  | 42   | 104816   | 41.894 | ng    | 95       |
| 6) Aniline                    | 6.451  | 93   | 178628   | 29.919 | ng    | # 47     |
| 8) 2-Chlorophenol             | 6.575  | 128  | 208395   | 41.321 | ng    | 95       |
| 9) Benzaldehyde               | 6.334  | 77   | 56709    | 16.696 | ng    | 98       |
| 10) Phenol                    | 6.445  | 94   | 247044   | 38.754 | ng    | 92       |
| 11) bis(2-Chloroethyl)ether   | 6.522  | 93   | 193027   | 39.817 | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.722  | 146  | 212859   | 38.689 | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.798  | 146  | 217255   | 38.647 | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 6.951  | 146  | 202716   | 38.753 | ng    | 99       |
| 15) Benzyl Alcohol            | 6.934  | 79   | 170701   | 42.371 | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.057  | 45   | 311423   | 39.291 | ng    | 86       |
| 17) 2-Methylphenol            | 7.045  | 107  | 164644   | 39.407 | ng    | 96       |
| 18) Hexachloroethane          | 7.286  | 117  | 78685    | 38.541 | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.198  | 70   | 141627   | 39.124 | ng    | 99       |
| 20) 3+4-Methylphenols         | 7.198  | 107  | 205983   | 39.463 | ng    | # 81     |
| 22) Acetophenone              | 7.192  | 105  | 286341   | 42.240 | ng    | 94       |
| 24) Nitrobenzene              | 7.363  | 77   | 212451   | 40.127 | ng    | 99       |
| 25) Isophorone                | 7.604  | 82   | 379733   | 39.485 | ng    | 100      |
| 26) 2-Nitrophenol             | 7.681  | 139  | 106998   | 42.240 | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.722  | 122  | 149954   | 48.624 | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.816  | 93   | 235927   | 40.358 | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 7.928  | 162  | 160715   | 40.479 | ng    | 95       |
| 30) 1,2,4-Trichlorobenzene    | 8.004  | 180  | 174301   | 39.402 | ng    | 98       |
| 31) Naphthalene               | 8.081  | 128  | 590399   | 39.736 | ng    | 99       |
| 32) Benzoic acid              | 7.851  | 122  | 90879    | 30.456 | ng    | 96       |
| 33) 4-Chloroaniline           | 8.133  | 127  | 86972    | 15.854 | ng    | 96       |
| 34) Hexachlorobutadiene       | 8.198  | 225  | 102626   | 38.184 | ng    | 99       |
| 35) Caprolactam               | 8.510  | 113  | 44522    | 33.992 | ng    | 91       |
| 36) 4-Chloro-3-methylphenol   | 8.628  | 107  | 173331   | 38.779 | ng    | 98       |
| 37) 2-Methylnaphthalene       | 8.775  | 142  | 367186   | 38.400 | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.875  | 142  | 357324   | 38.089 | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 8.939  | 216  | 177427   | 45.030 | ng    | 98       |
| 41) Hexachlorocyclopentadiene | 8.928  | 237  | 89233    | 71.578 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol     | 9.057  | 196  | 110810   | 43.852 | ng    | 98       |

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
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Quant Time: Dec 23 01:53:49 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

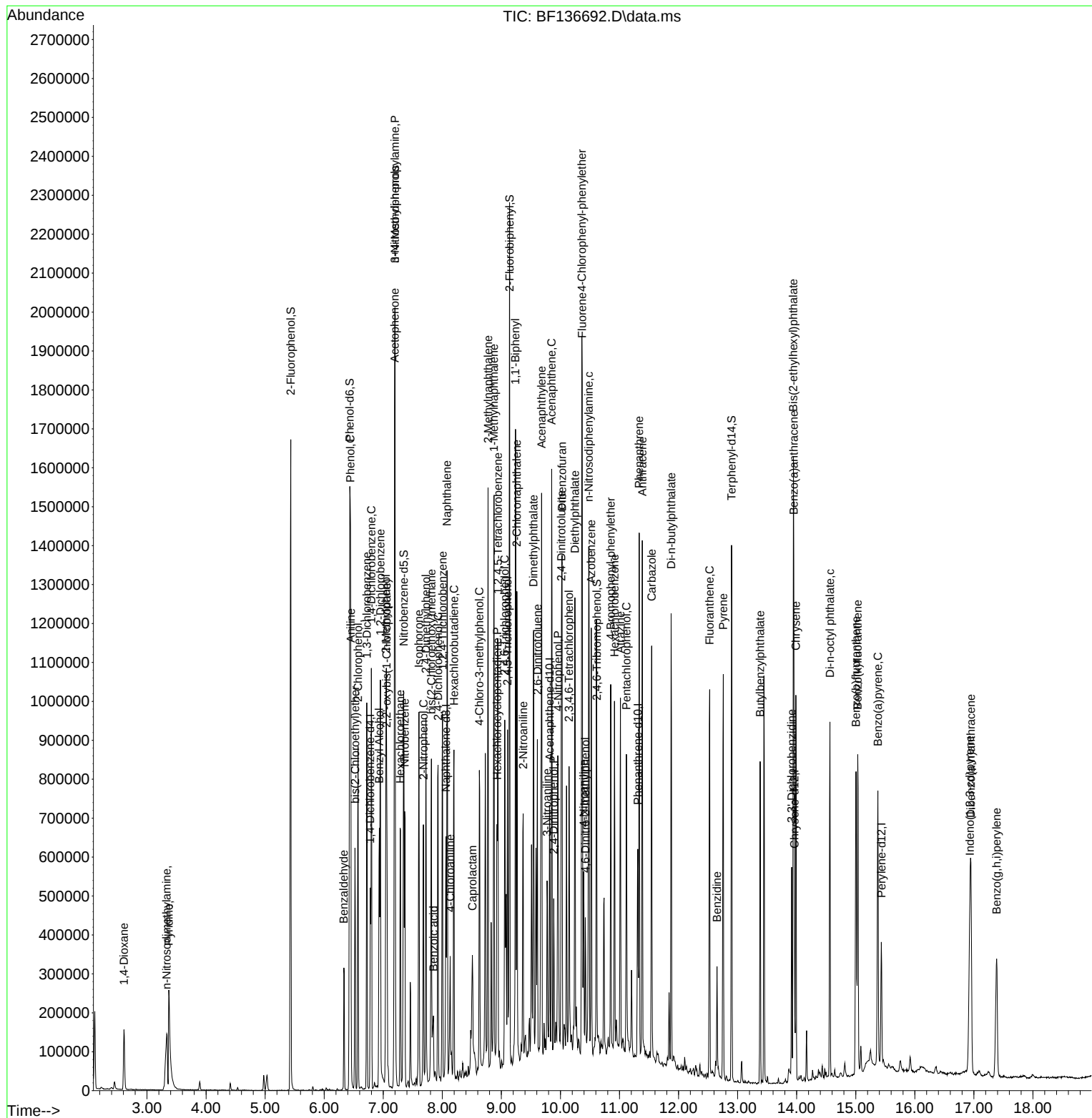
| Compound                       | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol      | 9.104  | 196  | 115500   | 41.018 | ng    | 95       |
| 46) 1,1'-Biphenyl              | 9.239  | 154  | 468610   | 43.893 | ng    | 99       |
| 47) 2-Chloronaphthalene        | 9.263  | 162  | 337462   | 41.578 | ng    | 100      |
| 48) 2-Nitroaniline             | 9.369  | 65   | 110676   | 43.546 | ng    | 93       |
| 49) Acenaphthylene             | 9.680  | 152  | 560469   | 45.179 | ng    | 100      |
| 50) Dimethylphthalate          | 9.545  | 163  | 388305   | 41.785 | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.610  | 165  | 86001    | 40.777 | ng    | 87       |
| 52) Acenaphthene               | 9.851  | 154  | 313417   | 40.756 | ng    | 99       |
| 53) 3-Nitroaniline             | 9.774  | 138  | 66940    | 29.962 | ng    | 96       |
| 54) 2,4-Dinitrophenol          | 9.886  | 184  | 47770    | 42.695 | ng    | # 79     |
| 55) Dibenzofuran               | 10.027 | 168  | 475478   | 40.789 | ng    | 98       |
| 56) 4-Nitrophenol              | 9.957  | 139  | 109753   | 72.772 | ng    | 95       |
| 57) 2,4-Dinitrotoluene         | 10.016 | 165  | 106349   | 38.843 | ng    | 98       |
| 58) Fluorene                   | 10.369 | 166  | 364661   | 39.425 | ng    | 97       |
| 59) 2,3,4,6-Tetrachlorophenol  | 10.145 | 232  | 86565    | 39.936 | ng    | # 100    |
| 60) Diethylphthalate           | 10.245 | 149  | 393284   | 40.789 | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 10.363 | 204  | 176750   | 39.314 | ng    | 97       |
| 62) 4-Nitroaniline             | 10.392 | 138  | 76405    | 35.475 | ng    | 95       |
| 63) Azobenzene                 | 10.522 | 77   | 351950   | 39.081 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph...  | 10.422 | 198  | 37308    | 30.782 | ng    | 94       |
| 66) n-Nitrosodiphenylamine     | 10.480 | 169  | 331812   | 48.300 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether  | 10.851 | 248  | 103312   | 43.988 | ng    | 96       |
| 68) Hexachlorobenzene          | 10.916 | 284  | 110239   | 42.118 | ng    | 93       |
| 69) Atrazine                   | 11.016 | 200  | 100415   | 57.148 | ng    | 99       |
| 70) Pentachlorophenol          | 11.116 | 266  | 90277    | 73.998 | ng    | 98       |
| 71) Phenanthrene               | 11.333 | 178  | 462600   | 42.631 | ng    | 99       |
| 72) Anthracene                 | 11.386 | 178  | 463900   | 42.213 | ng    | 99       |
| 73) Carbazole                  | 11.545 | 167  | 400281   | 38.633 | ng    | 99       |
| 74) Di-n-butylphthalate        | 11.874 | 149  | 555207   | 43.914 | ng    | 100      |
| 75) Fluoranthene               | 12.527 | 202  | 417577   | 35.976 | ng    | 99       |
| 77) Benzidine                  | 12.651 | 184  | 111080   | 30.255 | ng    | 98       |
| 78) Pyrene                     | 12.757 | 202  | 411458   | 33.662 | ng    | 99       |
| 80) Butylbenzylphthalate       | 13.380 | 149  | 176219   | 39.620 | ng    | 96       |
| 81) Benzo(a)anthracene         | 13.951 | 228  | 356313   | 41.210 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine     | 13.915 | 252  | 106690   | 43.450 | ng    | 99       |
| 83) Chrysene                   | 13.986 | 228  | 347702   | 41.123 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha...  | 13.945 | 149  | 233347   | 41.699 | ng    | # 97     |
| 85) Di-n-octyl phthalate       | 14.562 | 149  | 417680   | 48.252 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene     | 16.933 | 276  | 356583   | 34.775 | ng    | 99       |
| 88) Benzo(b)fluoranthene       | 15.004 | 252  | 402574   | 42.441 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 15.033 | 252  | 334976   | 37.373 | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.374 | 252  | 331025   | 41.343 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 16.951 | 278  | 303841   | 36.119 | ng    | 97       |
| 92) Benzo(g,h,i)perylene       | 17.386 | 276  | 264584   | 30.709 | ng    | 97       |

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

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Instrument :  
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

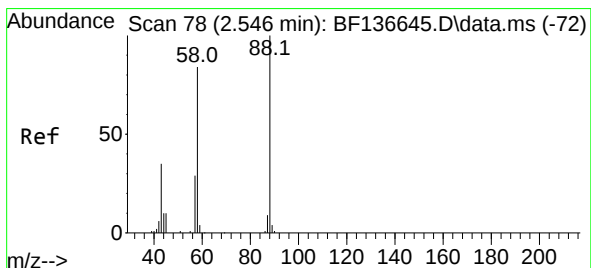
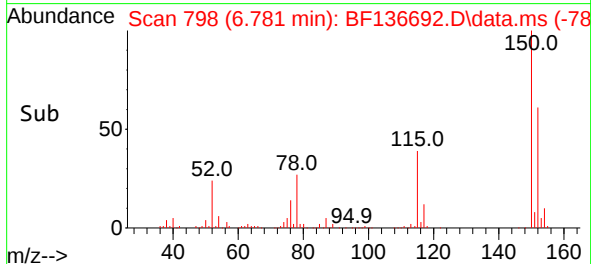
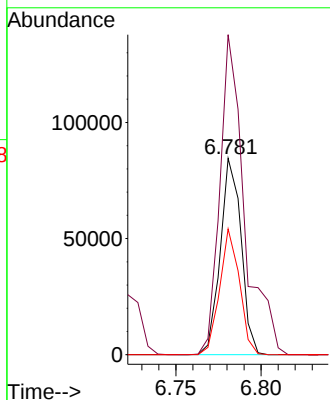
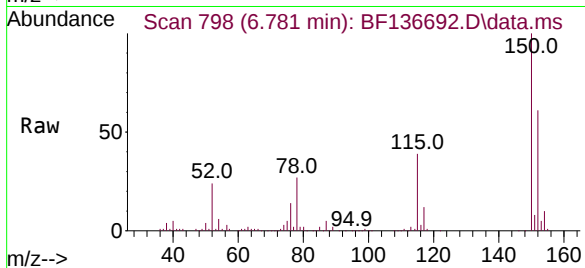




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.781 min Scan# 71  
 Delta R.T. -0.011 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

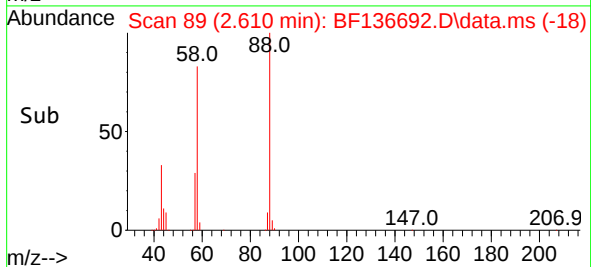
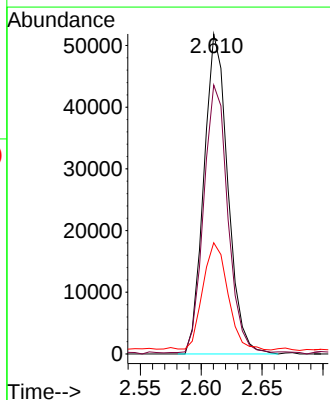
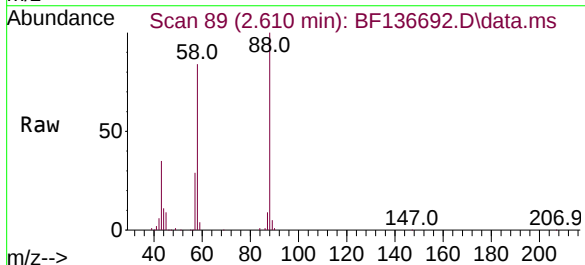
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-COMP-2MSD

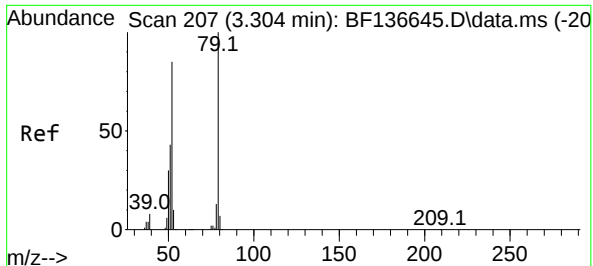
Tgt Ion:152 Resp: 71907  
 Ion Ratio Lower Upper  
 152 100  
 150 163.0 127.0 190.6  
 115 64.1 49.0 73.4



#2  
 1,4-Dioxane  
 Concen: 37.005 ng  
 RT: 2.610 min Scan# 89  
 Delta R.T. 0.065 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

Tgt Ion: 88 Resp: 71057  
 Ion Ratio Lower Upper  
 88 100  
 58 86.1 67.4 101.0  
 43 35.1 27.7 41.5

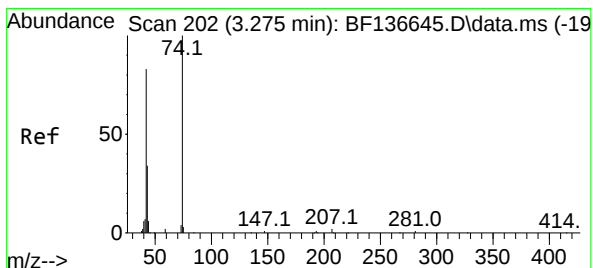
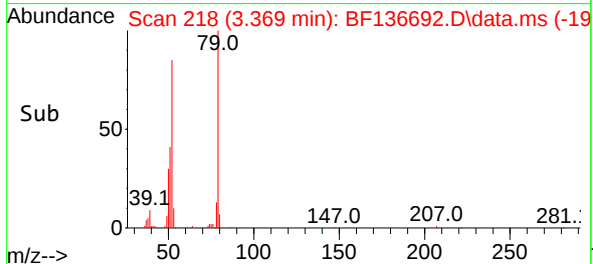
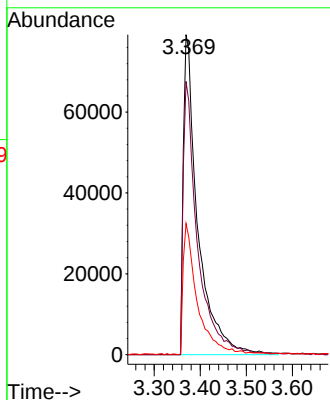
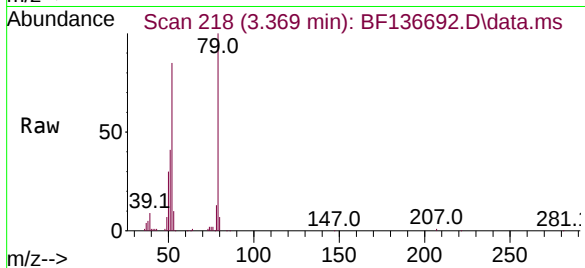




#3  
 Pyridine  
 Concen: 36.890 ng  
 RT: 3.369 min Scan# 21  
 Delta R.T. 0.065 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

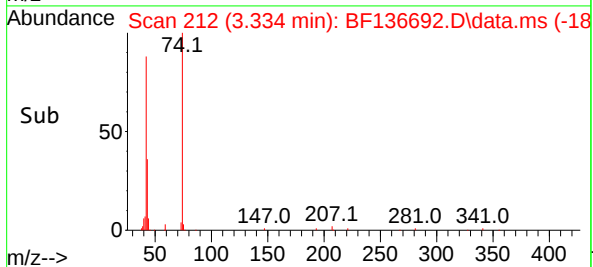
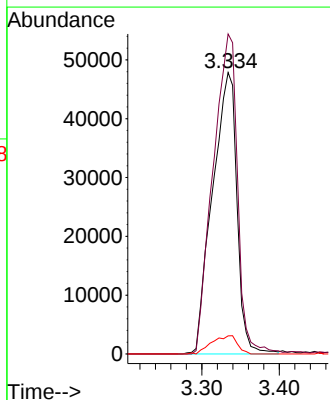
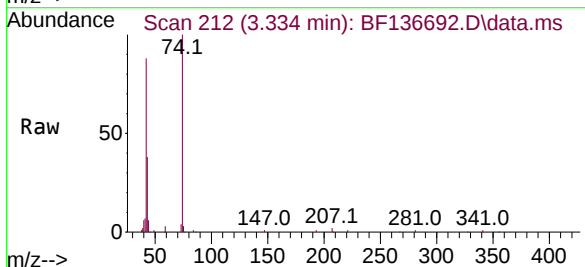
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-COMP-2MSD

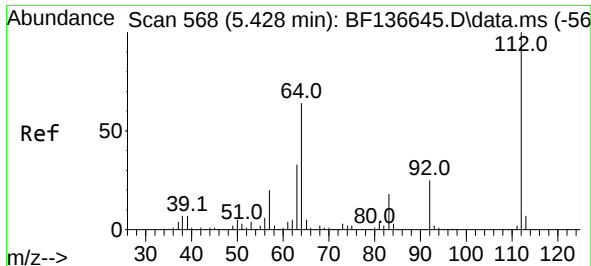
Tgt Ion: 79 Resp: 172835  
 Ion Ratio Lower Upper  
 79 100  
 52 85.4 67.7 101.5  
 51 41.0 34.0 51.0



#4  
 n-Nitrosodimethylamine  
 Concen: 41.894 ng  
 RT: 3.334 min Scan# 212  
 Delta R.T. 0.059 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

Tgt Ion: 42 Resp: 104816  
 Ion Ratio Lower Upper  
 42 100  
 74 113.7 96.0 144.0  
 44 6.4 5.4 8.2

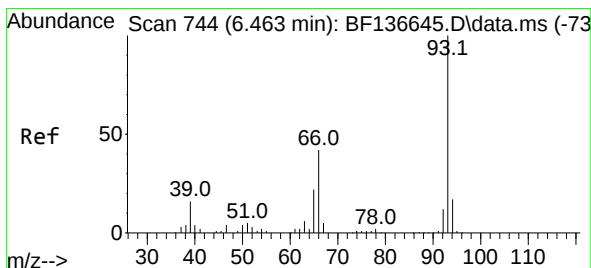
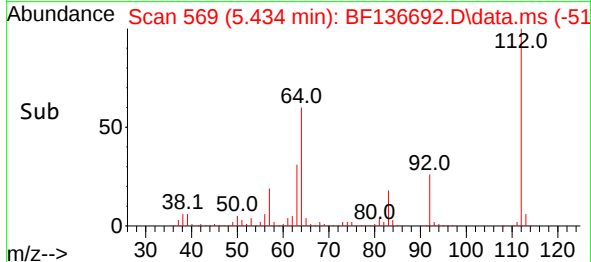
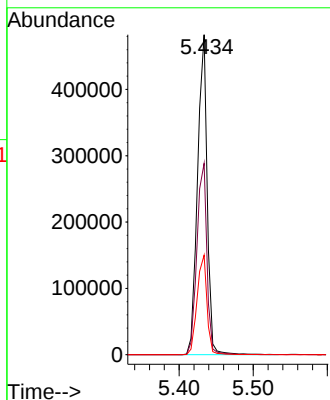
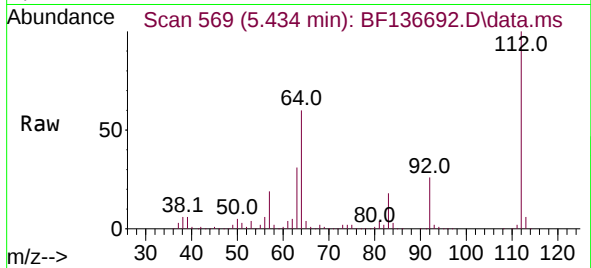




#5  
2-Fluorophenol  
Concen: 94.588 ng  
RT: 5.434 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

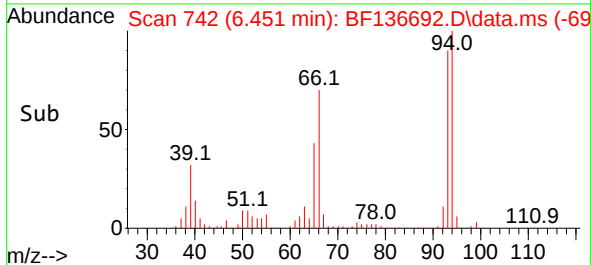
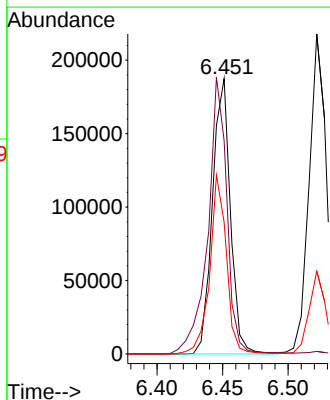
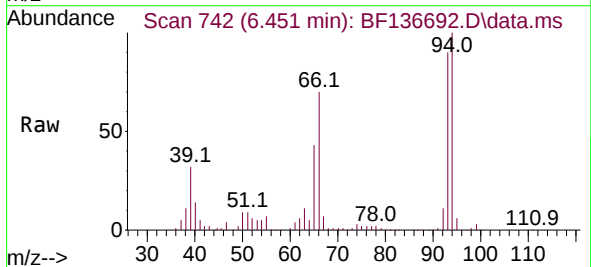
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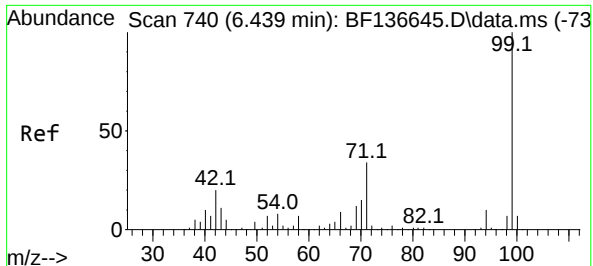
Tgt Ion:112 Resp: 435916  
Ion Ratio Lower Upper  
112 100  
64 59.8 51.1 76.7  
63 31.1 26.1 39.1



#6  
Aniline  
Concen: 29.919 ng  
RT: 6.451 min Scan# 742  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion: 93 Resp: 178628  
Ion Ratio Lower Upper  
93 100  
66 77.4 34.6 51.8#  
65 47.9 17.8 26.8#

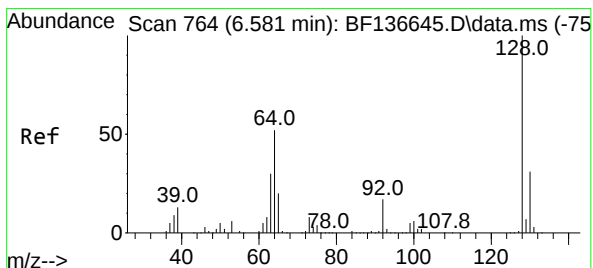
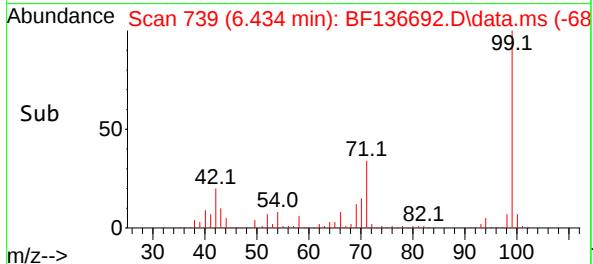
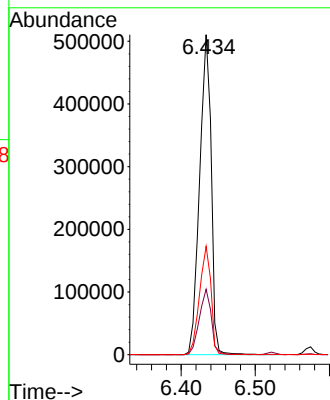
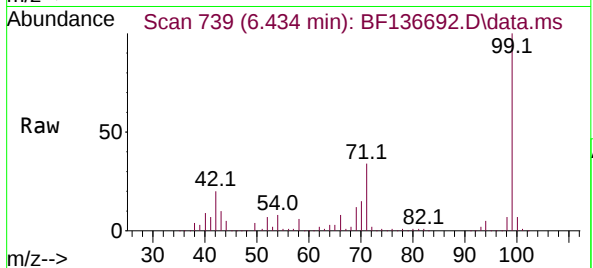




#7  
Phenol-d6  
Concen: 92.542 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

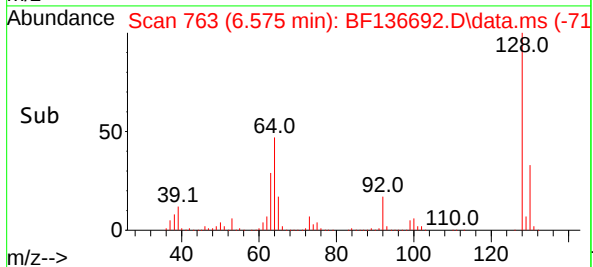
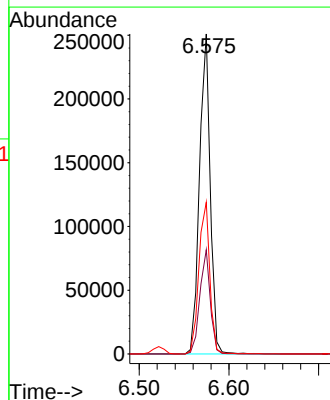
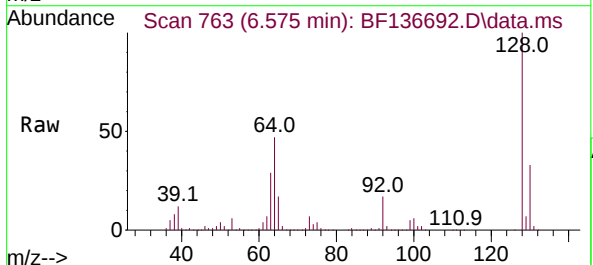
Instrument :  
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Tgt Ion: 99 Resp: 552623  
Ion Ratio Lower Upper  
99 100  
42 20.5 16.1 24.1  
71 33.9 27.4 41.2



#8  
2-Chlorophenol  
Concen: 41.321 ng  
RT: 6.575 min Scan# 763  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
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Tgt Ion: 128 Resp: 208395  
Ion Ratio Lower Upper  
128 100  
130 32.5 11.3 51.3  
64 47.4 32.5 72.5





#9

Benzaldehyde

Concen: 16.696 ng

RT: 6.334 min Scan# 71

Delta R.T. -0.018 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

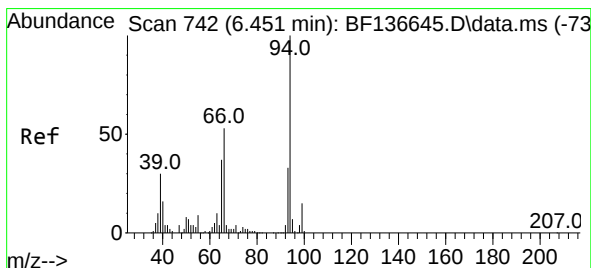
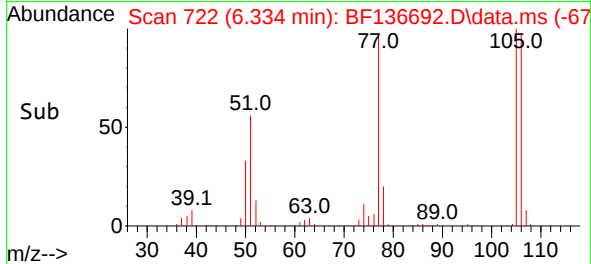
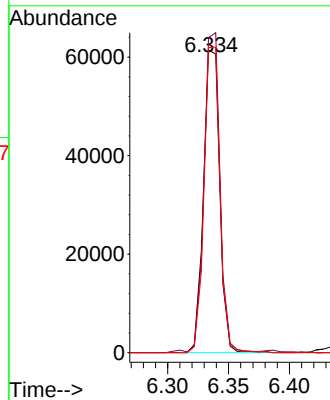
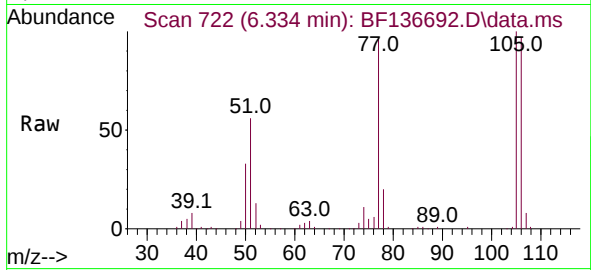
Tgt Ion: 77 Resp: 56709

Ion Ratio Lower Upper

77 100

105 104.1 84.8 124.8

106 100.8 77.8 117.8



#10

Phenol

Concen: 38.754 ng

RT: 6.445 min Scan# 741

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

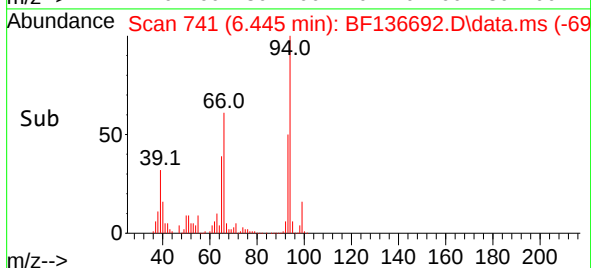
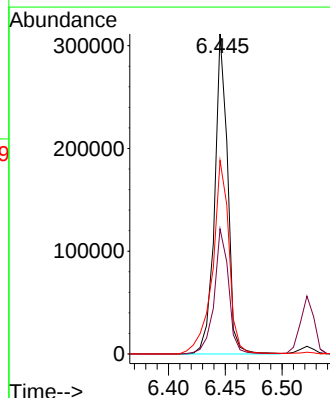
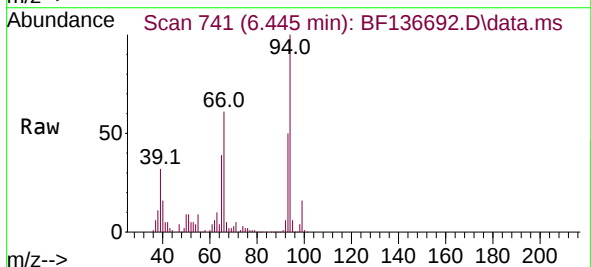
Tgt Ion: 94 Resp: 247044

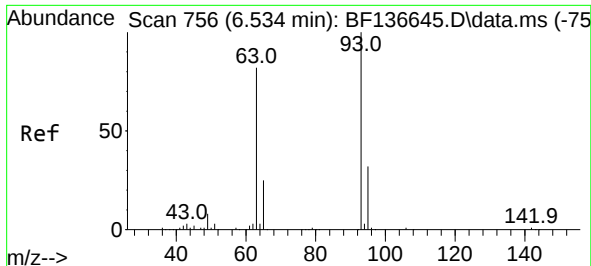
Ion Ratio Lower Upper

94 100

65 39.1 16.6 56.6

66 60.5 32.6 72.6





#11

bis(2-Chloroethyl)ether

Concen: 39.817 ng

RT: 6.522 min Scan# 754

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

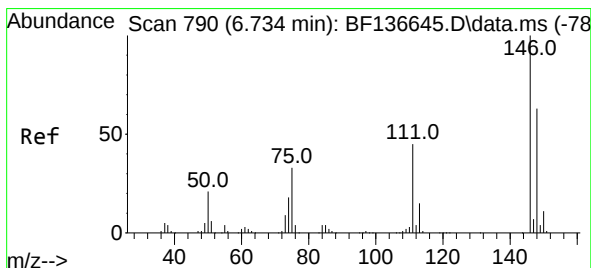
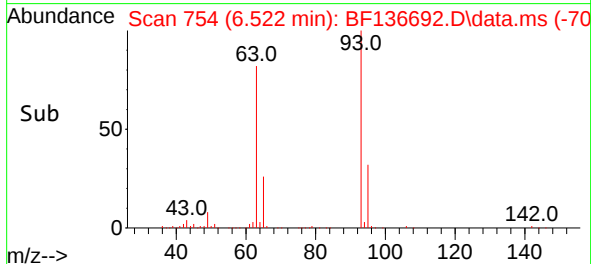
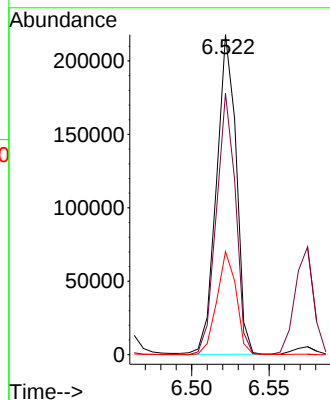
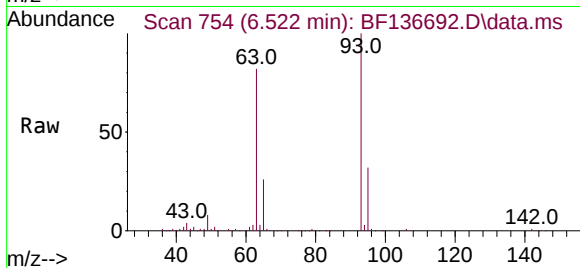
Tgt Ion: 93 Resp: 193027

Ion Ratio Lower Upper

93 100

63 81.7 61.2 101.2

95 32.2 11.6 51.6



#12

1,3-Dichlorobenzene

Concen: 38.689 ng

RT: 6.722 min Scan# 788

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

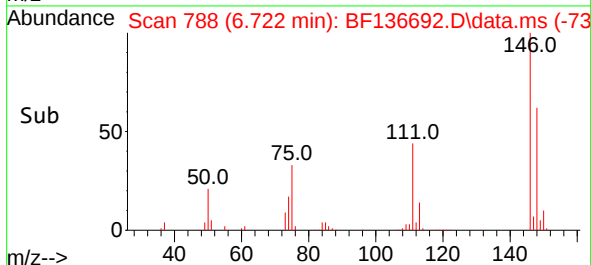
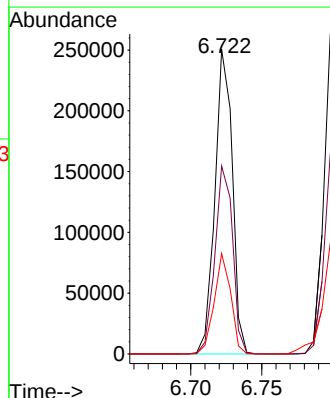
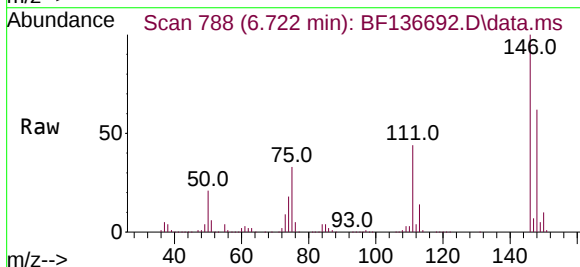
Tgt Ion: 146 Resp: 212859

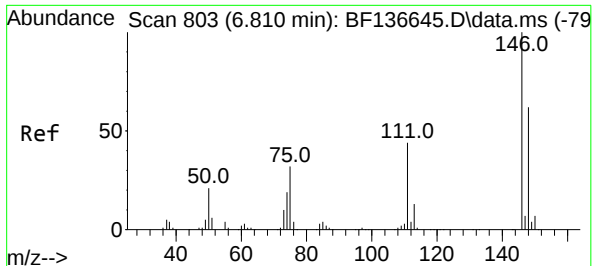
Ion Ratio Lower Upper

146 100

148 61.7 50.5 75.7

75 32.9 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 38.647 ng

RT: 6.798 min Scan# 803

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

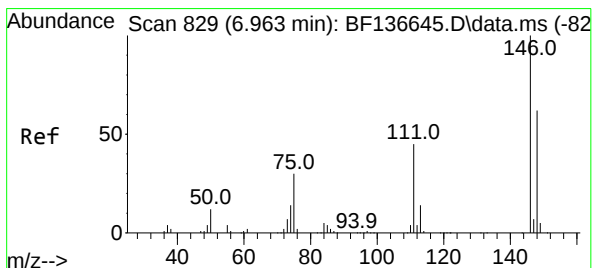
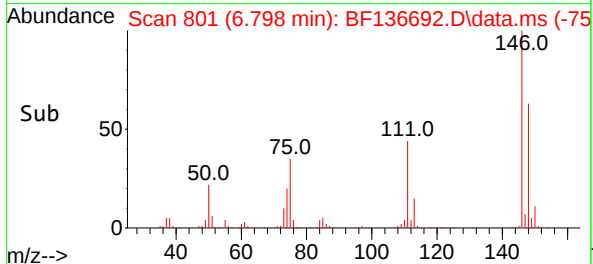
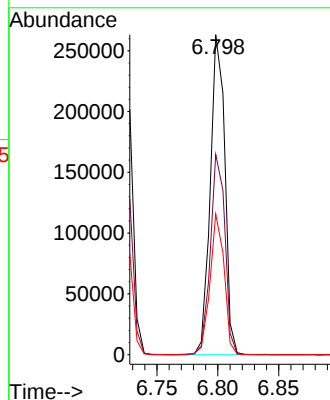
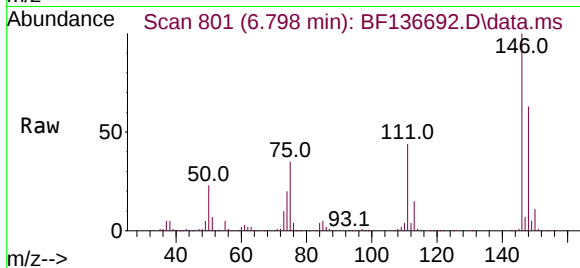
Tgt Ion:146 Resp: 217255

Ion Ratio Lower Upper

146 100

148 62.6 49.2 73.8

111 44.0 35.2 52.8



#14

1,2-Dichlorobenzene

Concen: 38.753 ng

RT: 6.951 min Scan# 827

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

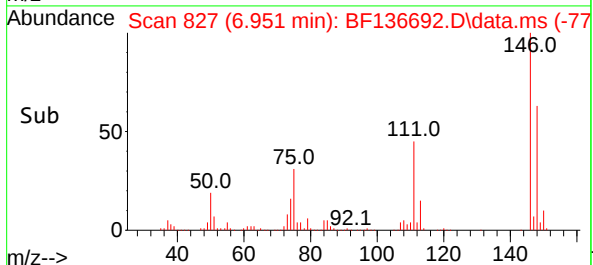
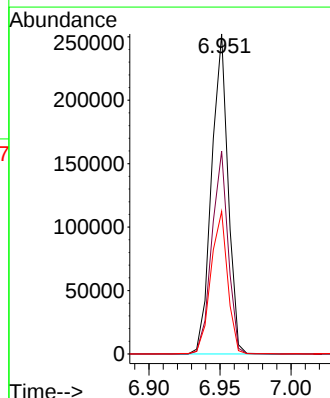
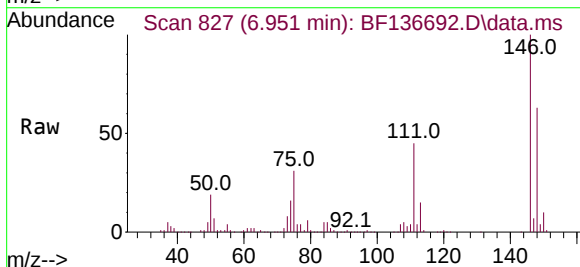
Tgt Ion:146 Resp: 202716

Ion Ratio Lower Upper

146 100

148 63.4 49.6 74.4

111 44.5 36.2 54.2

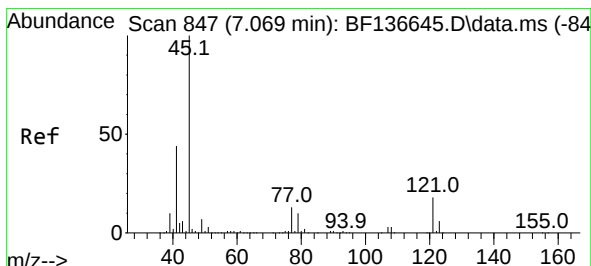
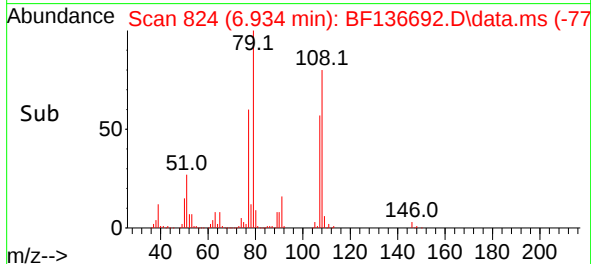
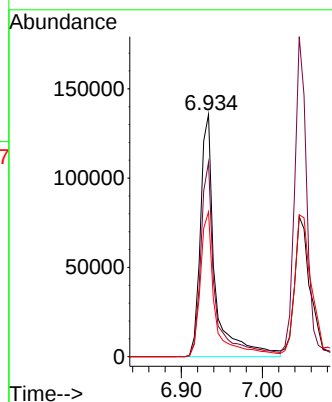
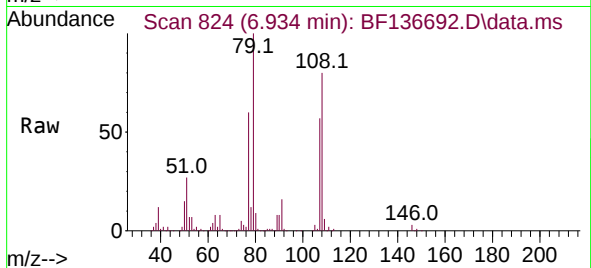




#15  
Benzyl Alcohol  
Concen: 42.371 ng  
RT: 6.934 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

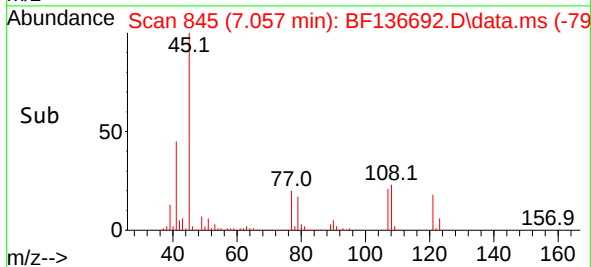
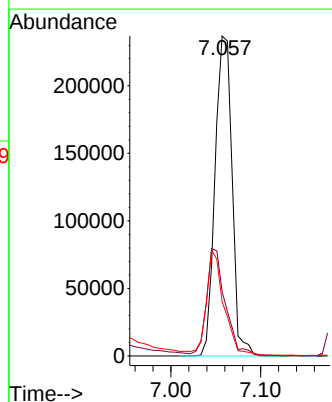
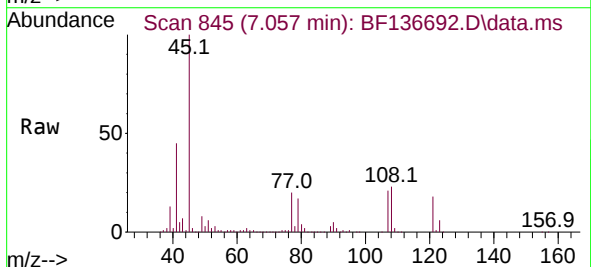
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

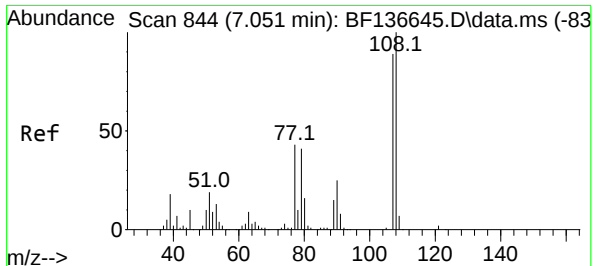
Tgt Ion: 79 Resp: 170701  
Ion Ratio Lower Upper  
79 100  
108 80.3 61.0 91.6  
77 59.8 49.8 74.8



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 39.291 ng  
RT: 7.057 min Scan# 845  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion: 45 Resp: 311423  
Ion Ratio Lower Upper  
45 100  
77 20.1 0.0 34.3  
79 16.9 0.0 31.4

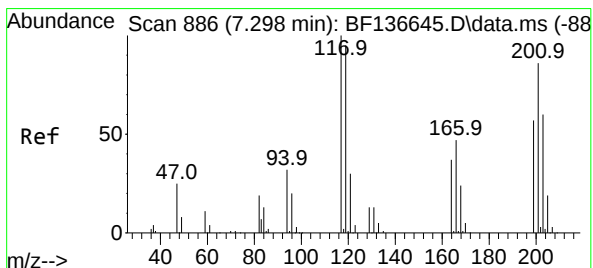
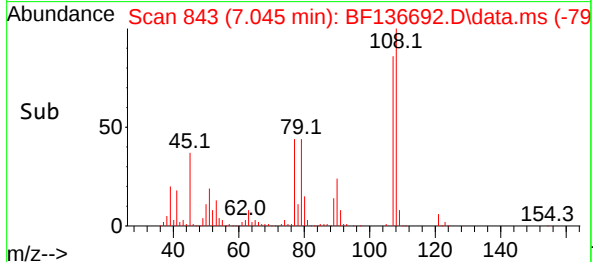
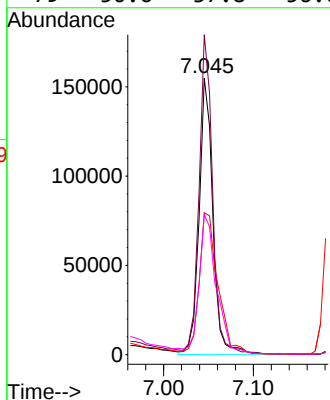
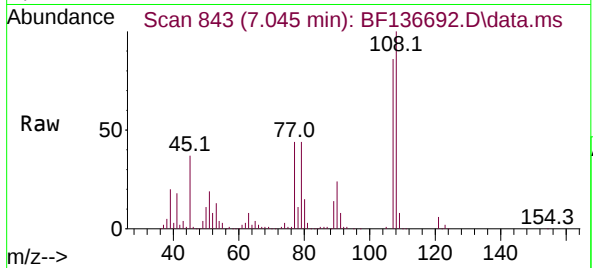




#17  
2-Methylphenol  
Concen: 39.407 ng  
RT: 7.045 min Scan# 844  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

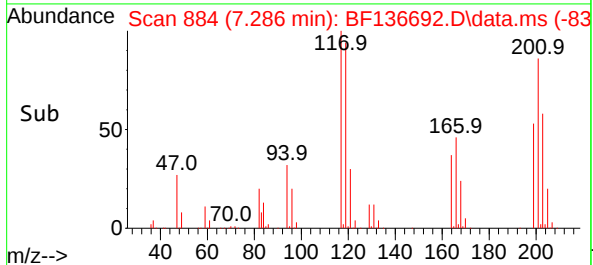
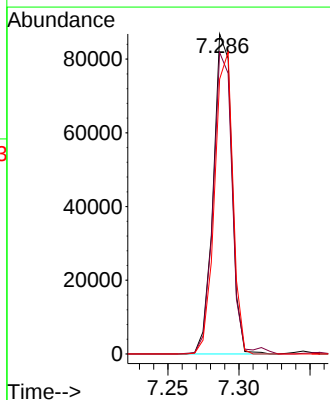
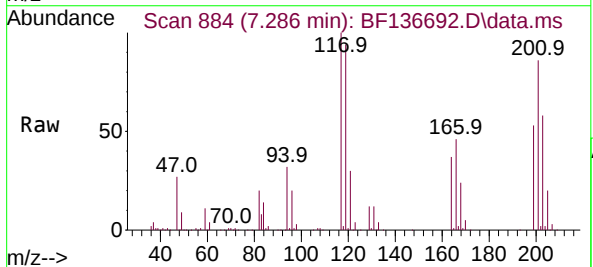
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:107 Resp: 164644  
Ion Ratio Lower Upper  
107 100  
108 115.7 90.3 135.5  
77 51.3 38.7 58.1  
79 50.6 37.8 56.6



#18  
Hexachloroethane  
Concen: 38.541 ng  
RT: 7.286 min Scan# 884  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:117 Resp: 78685  
Ion Ratio Lower Upper  
117 100  
119 94.2 75.8 113.6  
201 85.9 69.1 103.7

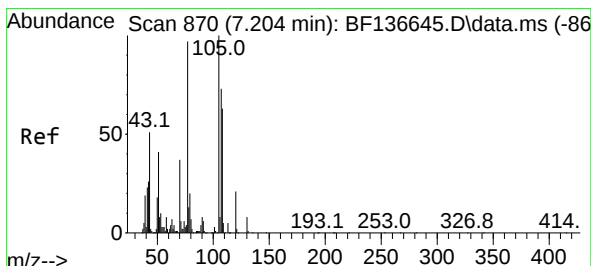
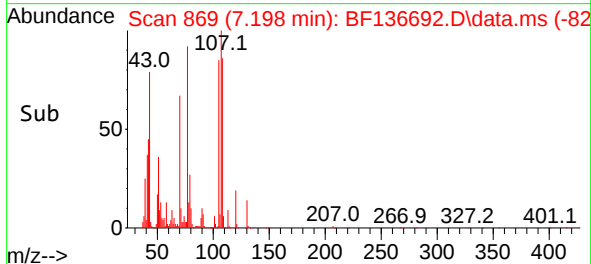
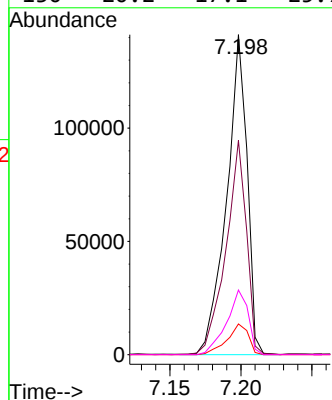
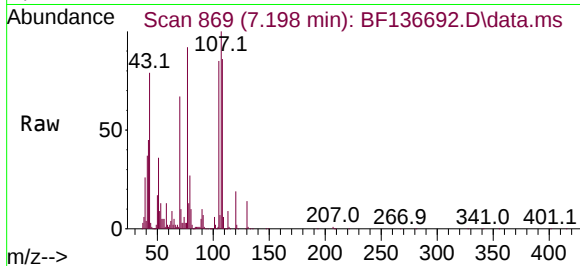




#19  
n-Nitroso-di-n-propylamine  
Concen: 39.124 ng  
RT: 7.198 min Scan# 869  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

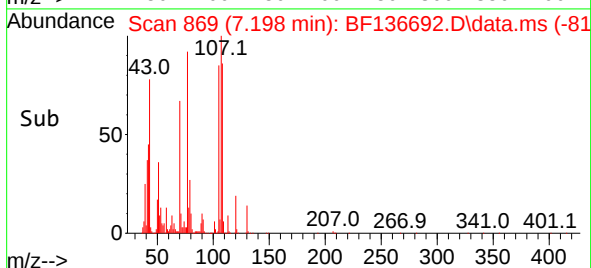
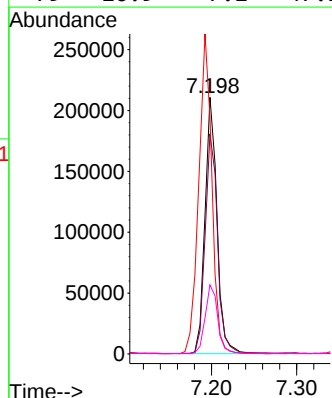
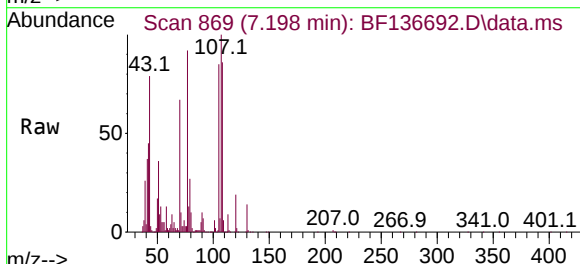
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

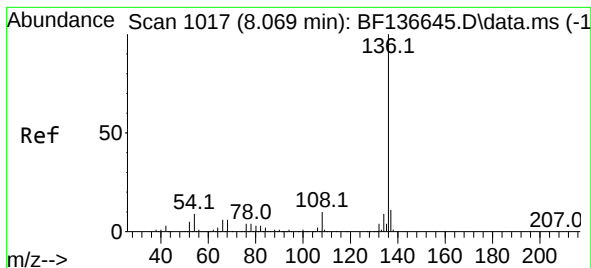
Tgt Ion: 70 Resp: 141627  
Ion Ratio Lower Upper  
70 100  
42 66.9 54.2 81.4  
101 9.6 7.6 11.4  
130 20.2 17.1 25.7



#20  
3+4-Methylphenols  
Concen: 39.463 ng  
RT: 7.198 min Scan# 869  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion: 107 Resp: 205983  
Ion Ratio Lower Upper  
107 100  
108 85.8 66.0 106.0  
77 92.3 114.2 154.2#  
79 26.9 7.2 47.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

Tgt Ion:136 Resp: 270455

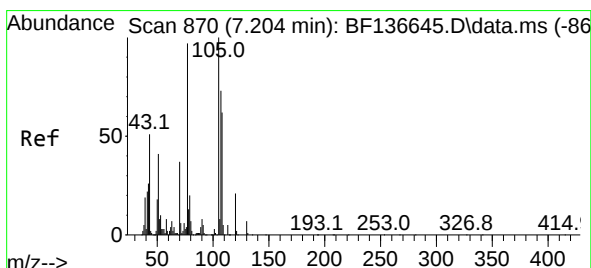
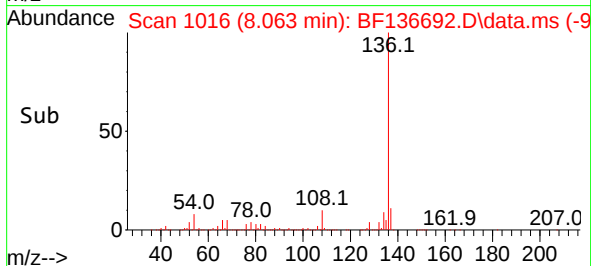
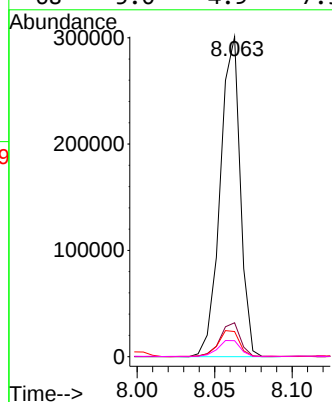
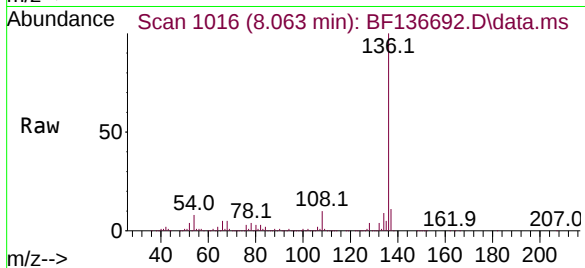
Ion Ratio Lower Upper

136 100

137 10.6 9.0 13.4

54 7.9 7.2 10.8

68 5.0 4.9 7.3



#22

Acetophenone

Concen: 42.240 ng

RT: 7.192 min Scan# 868

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Tgt Ion:105 Resp: 286341

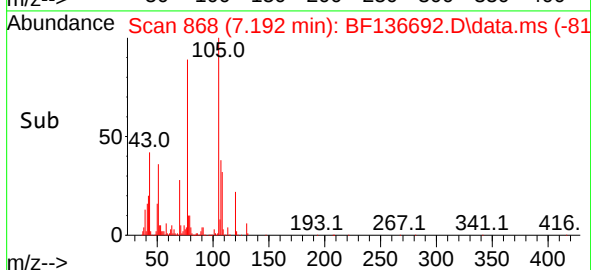
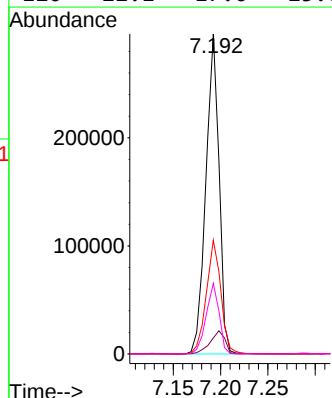
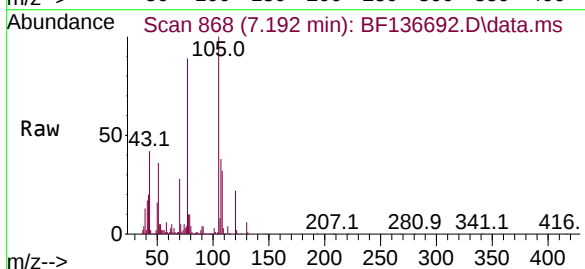
Ion Ratio Lower Upper

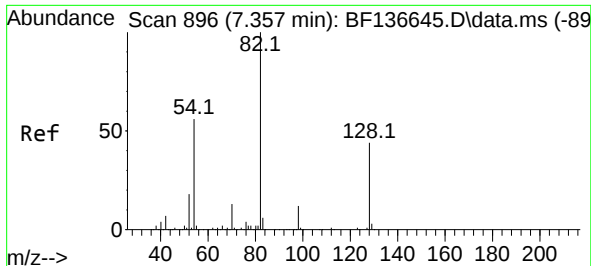
105 100

71 5.0 4.8 7.2

51 35.5 32.8 49.2

120 22.1 17.0 25.6





#23

Nitrobenzene-d5

Concen: 66.137 ng

RT: 7.345 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

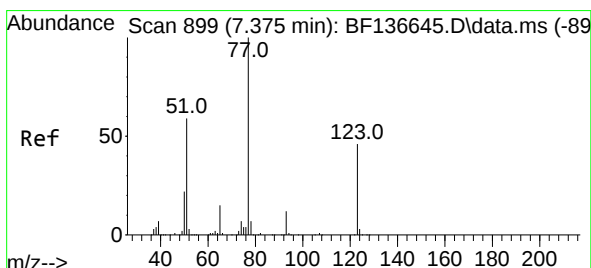
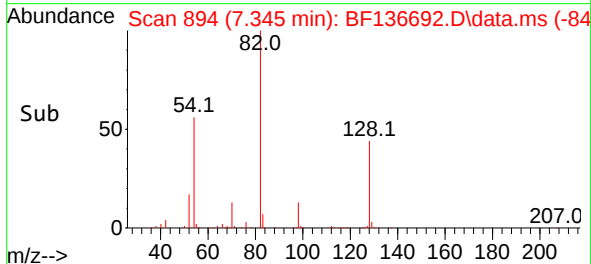
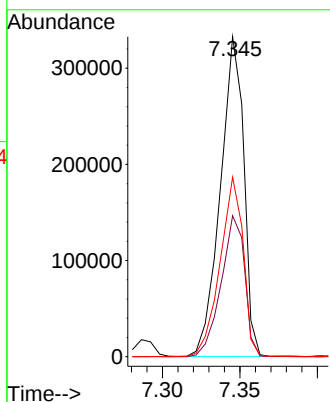
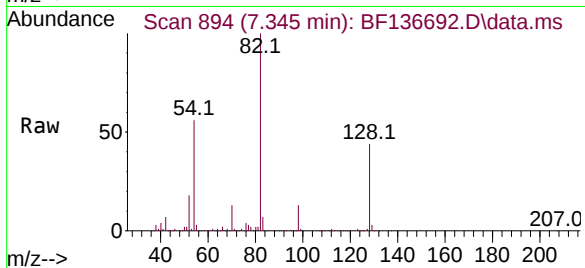
Tgt Ion: 82 Resp: 349556

Ion Ratio Lower Upper

82 100

128 44.1 35.3 52.9

54 56.1 44.5 66.7



#24

Nitrobenzene

Concen: 40.127 ng

RT: 7.363 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

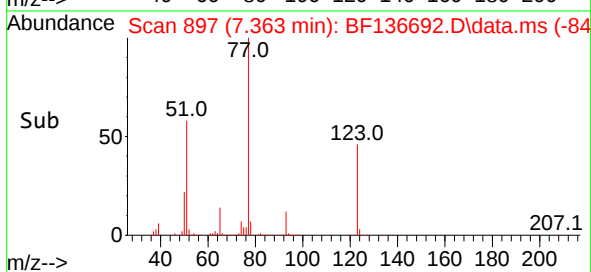
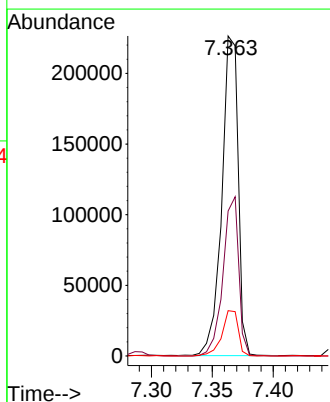
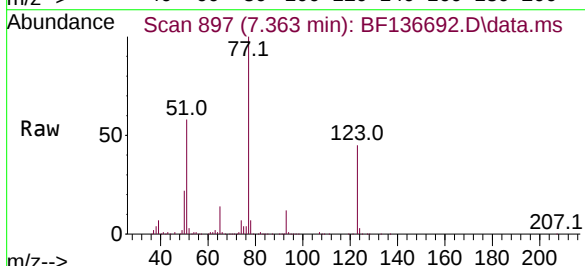
Tgt Ion: 77 Resp: 212451

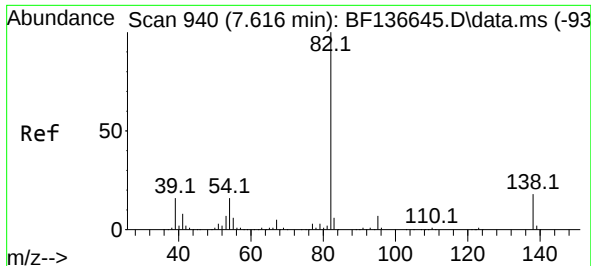
Ion Ratio Lower Upper

77 100

123 45.3 36.7 55.1

65 14.1 11.8 17.6

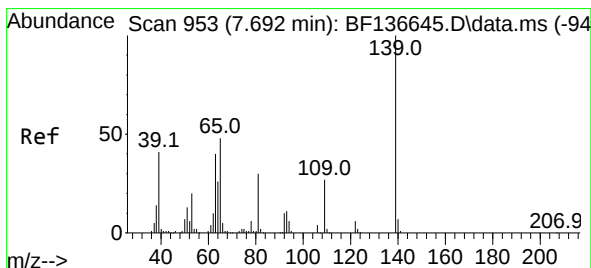
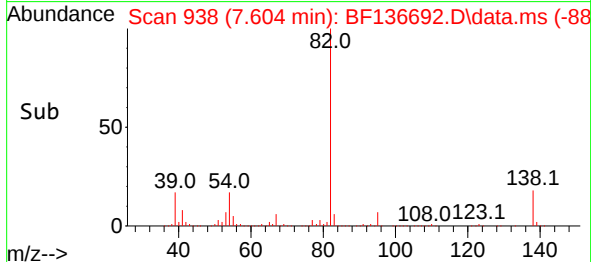
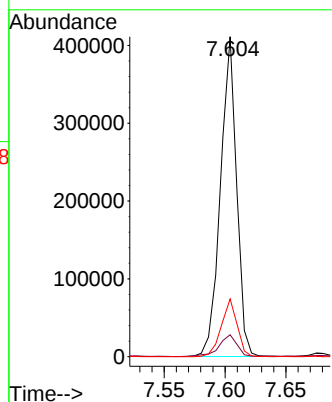
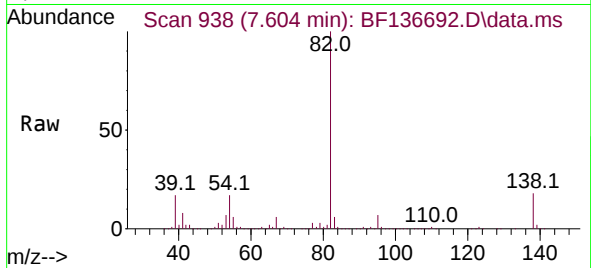




#25  
Isophorone  
Concen: 39.485 ng  
RT: 7.604 min Scan# 911  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

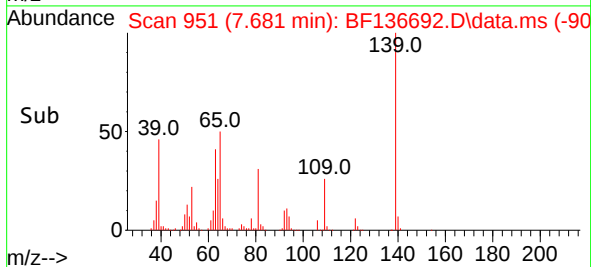
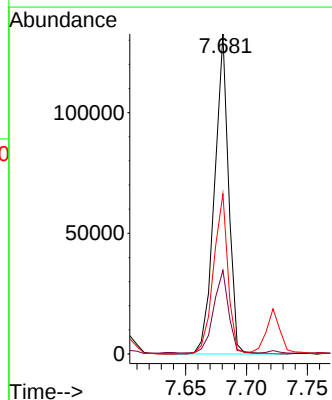
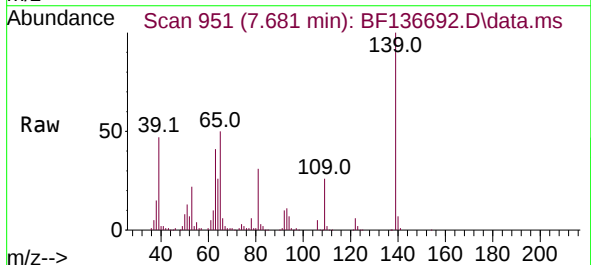
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

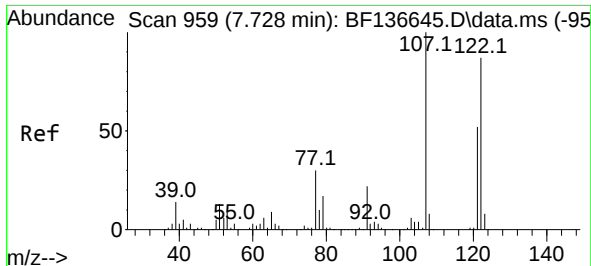
Tgt Ion: 82 Resp: 379733  
Ion Ratio Lower Upper  
82 100  
95 6.8 5.5 8.3  
138 18.1 14.5 21.7



#26  
2-Nitrophenol  
Concen: 42.240 ng  
RT: 7.681 min Scan# 951  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:139 Resp: 106998  
Ion Ratio Lower Upper  
139 100  
109 26.1 21.9 32.9  
65 50.1 38.6 58.0





#27

2,4-Dimethylphenol

Concen: 48.624 ng

RT: 7.722 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

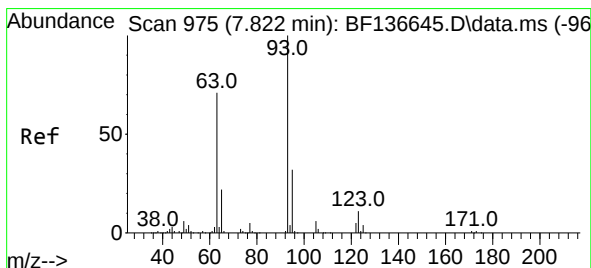
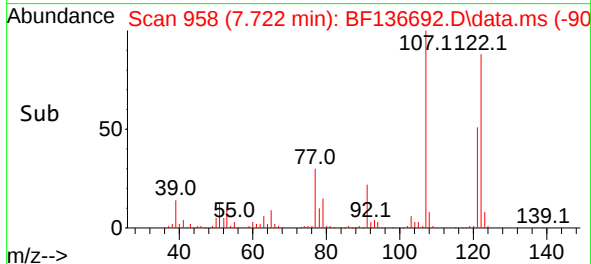
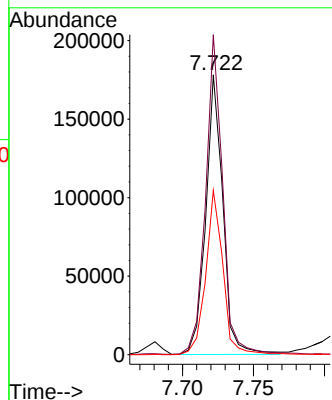
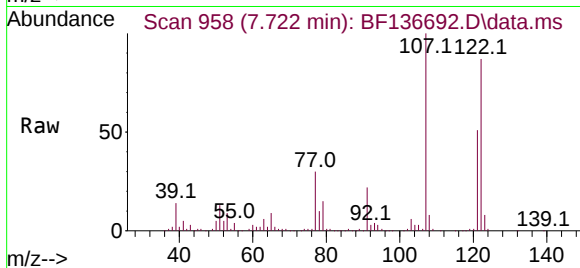
Tgt Ion:122 Resp: 149954

Ion Ratio Lower Upper

122 100

107 114.3 92.0 138.0

121 58.7 47.5 71.3



#28

bis(2-Chloroethoxy)methane

Concen: 40.358 ng

RT: 7.816 min Scan# 974

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

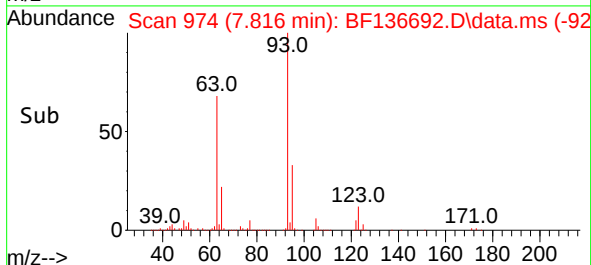
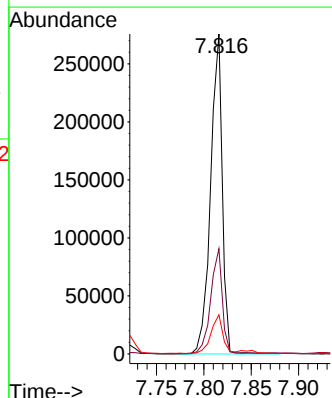
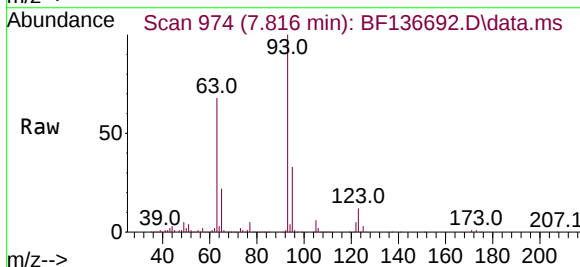
Tgt Ion: 93 Resp: 235927

Ion Ratio Lower Upper

93 100

95 32.9 25.5 38.3

123 12.3 9.2 13.8

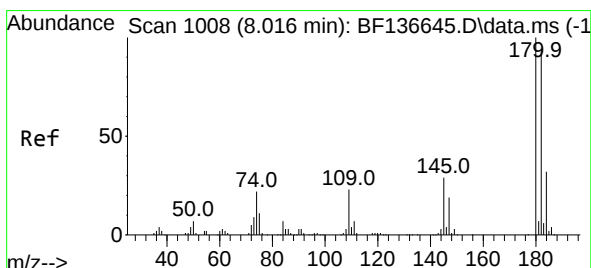
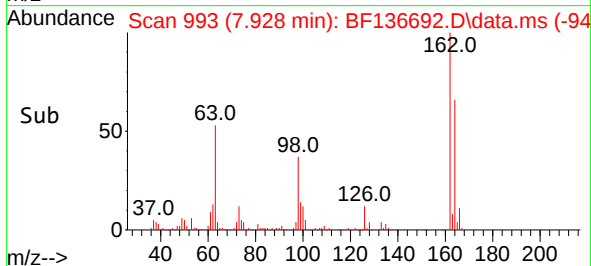
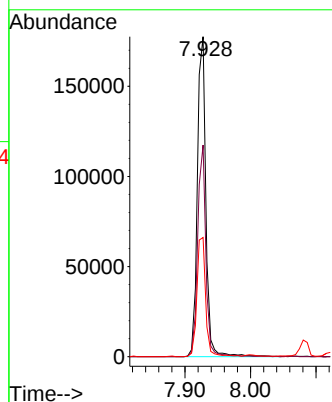
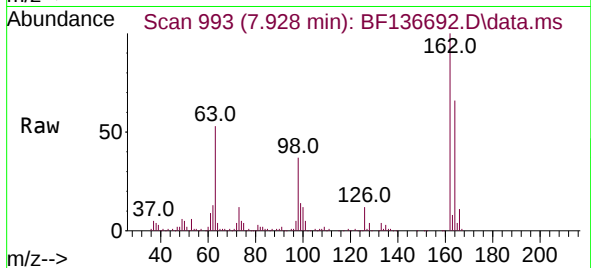




#29  
2,4-Dichlorophenol  
Concen: 40.479 ng  
RT: 7.928 min Scan# 994  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

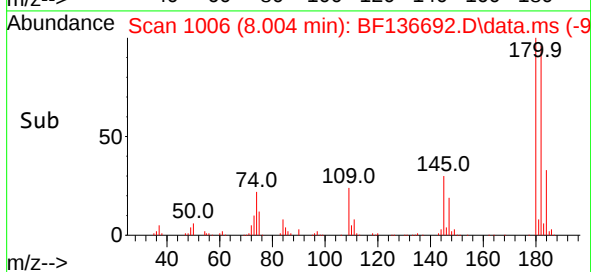
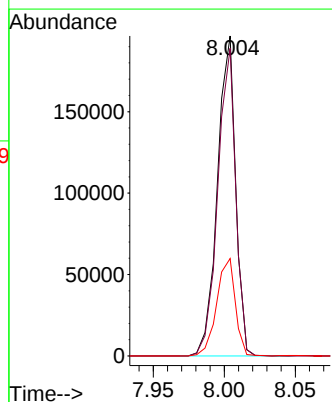
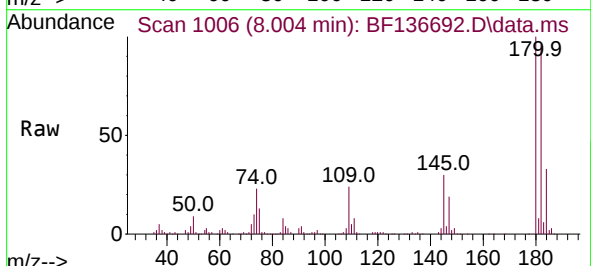
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BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

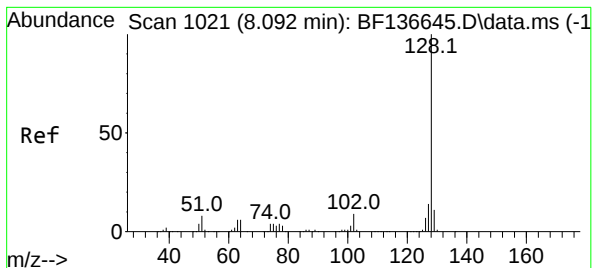
Tgt Ion:162 Resp: 160715  
Ion Ratio Lower Upper  
162 100  
164 66.1 41.7 81.7  
98 37.3 19.5 59.5



#30  
1,2,4-Trichlorobenzene  
Concen: 39.402 ng  
RT: 8.004 min Scan# 1006  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:180 Resp: 174301  
Ion Ratio Lower Upper  
180 100  
182 96.2 75.4 113.0  
145 30.5 23.1 34.7





#31

Naphthalene

Concen: 39.736 ng

RT: 8.081 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

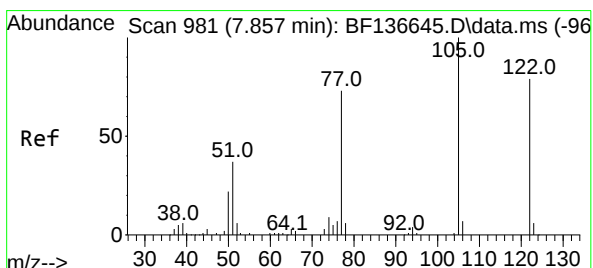
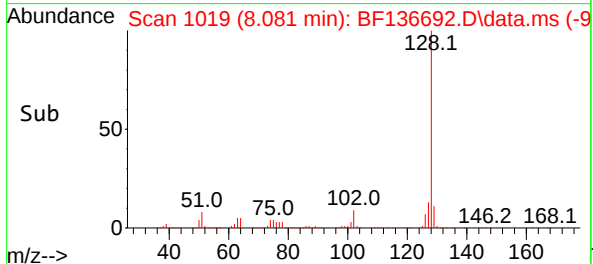
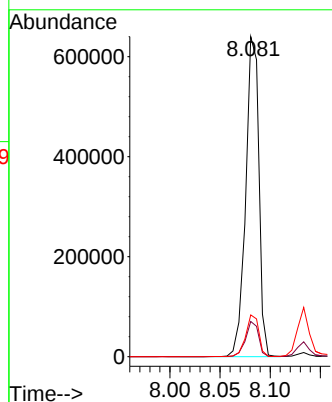
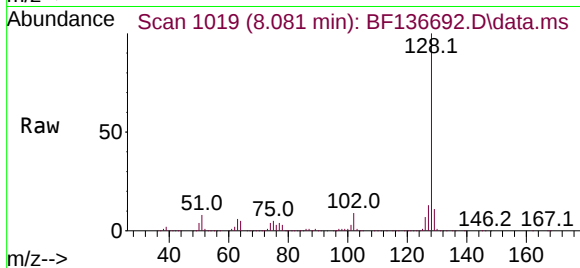
Tgt Ion:128 Resp: 590399

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

127 13.0 10.8 16.2



#32

Benzoic acid

Concen: 30.456 ng

RT: 7.851 min Scan# 980

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

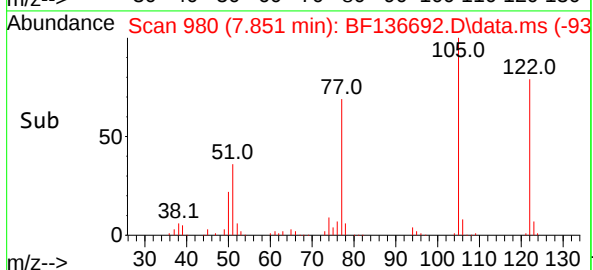
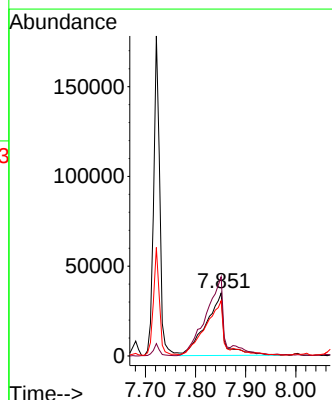
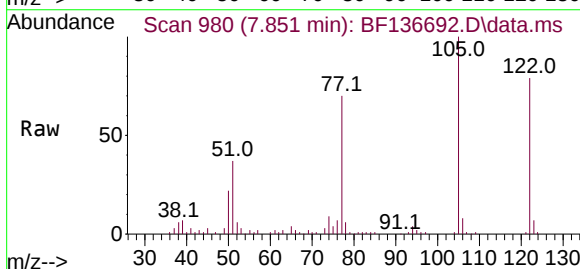
Tgt Ion:122 Resp: 90879

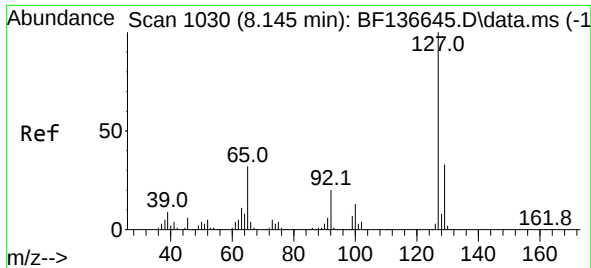
Ion Ratio Lower Upper

122 100

105 125.9 100.8 140.8

77 87.6 70.9 110.9

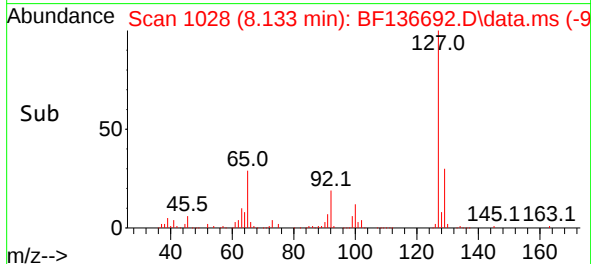
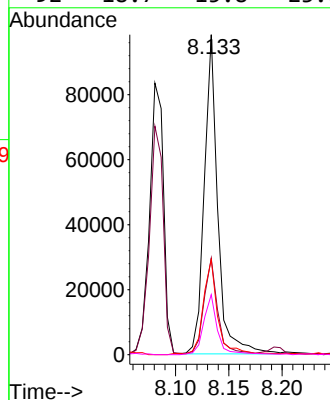
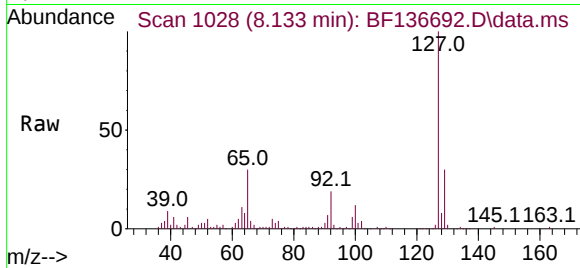




#33  
4-Chloroaniline  
Concen: 15.854 ng  
RT: 8.133 min Scan# 1028  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

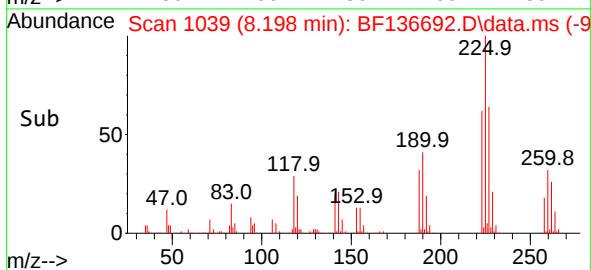
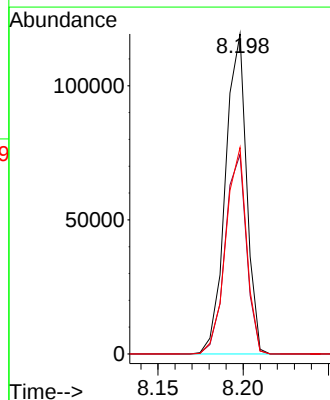
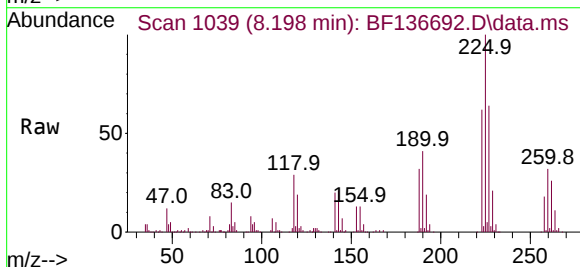
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

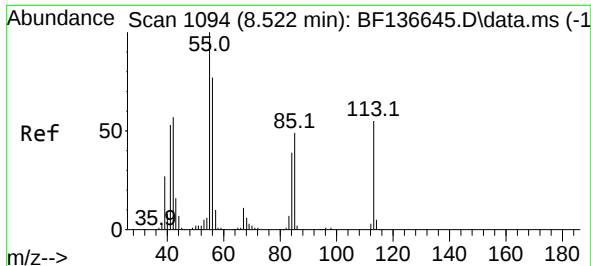
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:127 | Resp: | 86972     |
| Ion Ratio   | Lower | Upper     |
| 127         | 100   |           |
| 129         | 30.2  | 26.3 39.5 |
| 65          | 29.7  | 25.8 38.8 |
| 92          | 18.7  | 15.8 23.6 |



#34  
Hexachlorobutadiene  
Concen: 38.184 ng  
RT: 8.198 min Scan# 1039  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 102626    |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 62.3  | 50.6 76.0 |
| 227         | 64.5  | 51.9 77.9 |

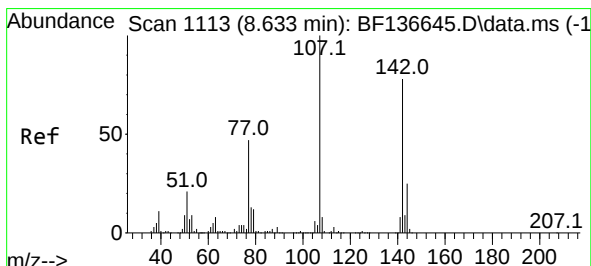
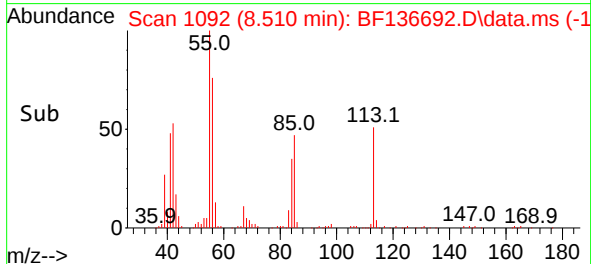
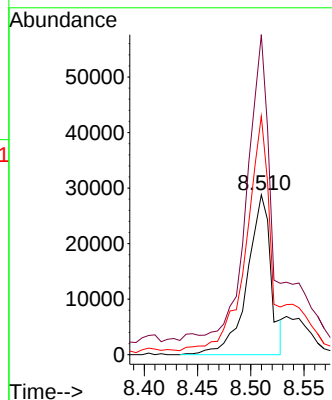
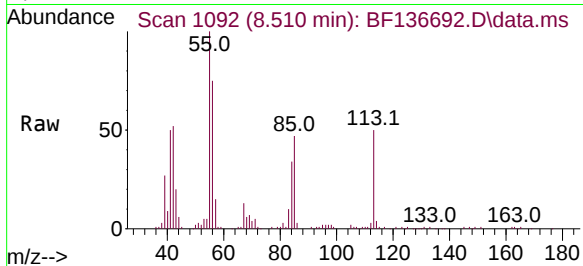




#35  
 Caprolactam  
 Concen: 33.992 ng  
 RT: 8.510 min Scan# 1092  
 Delta R.T. -0.012 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

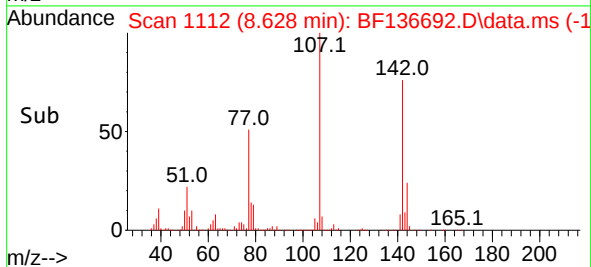
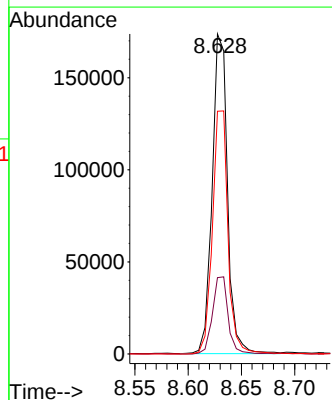
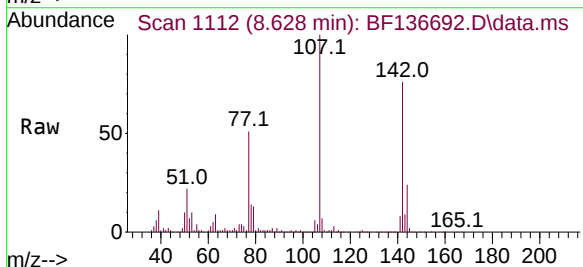
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-COMP-2MSD

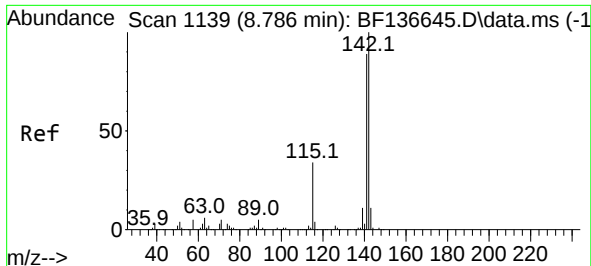
Tgt Ion:113 Resp: 44522  
 Ion Ratio Lower Upper  
 113 100  
 55 200.1 163.1 203.1  
 56 149.2 121.7 161.7



#36  
 4-Chloro-3-methylphenol  
 Concen: 38.779 ng  
 RT: 8.628 min Scan# 1112  
 Delta R.T. -0.006 min  
 Lab File: BF136692.D  
 Acq: 22 Dec 2023 18:40

Tgt Ion:107 Resp: 173331  
 Ion Ratio Lower Upper  
 107 100  
 144 23.9 20.2 30.2  
 142 75.8 62.3 93.5





#37

2-Methylnaphthalene

Concen: 38.400 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

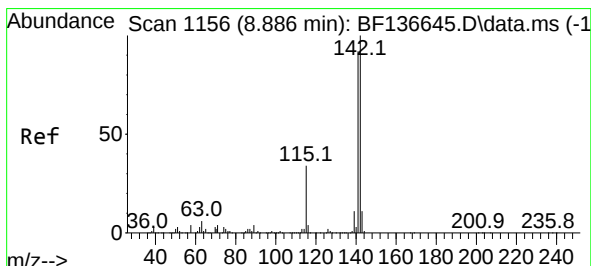
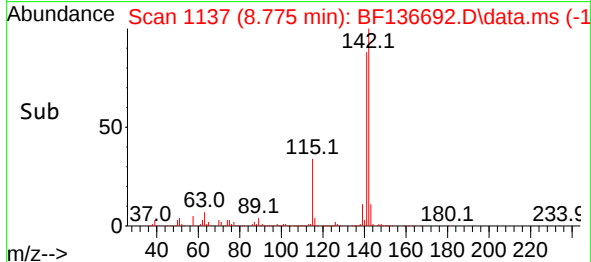
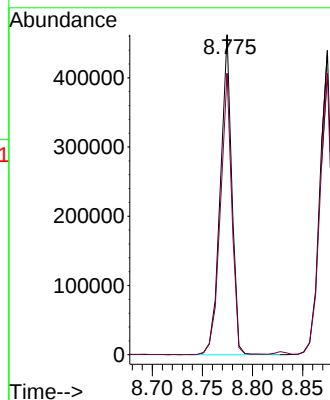
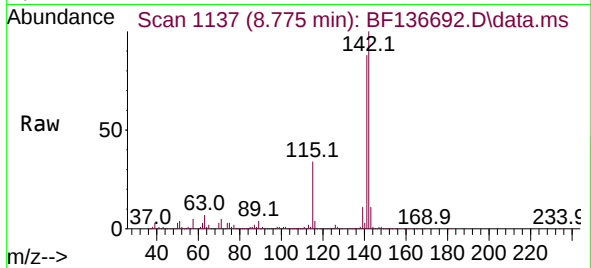
SOIL-COMP-2MSD

Tgt Ion:142 Resp: 367186

Ion Ratio Lower Upper

142 100

141 87.9 71.1 106.7



#38

1-Methylnaphthalene

Concen: 38.089 ng

RT: 8.875 min Scan# 1154

Delta R.T. -0.012 min

Lab File: BF136692.D

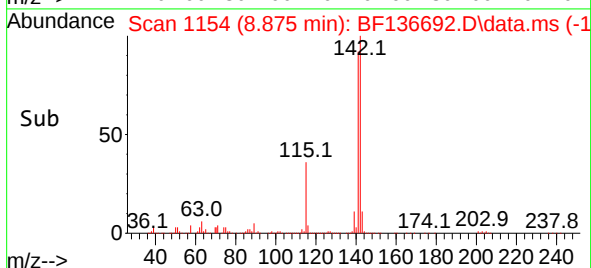
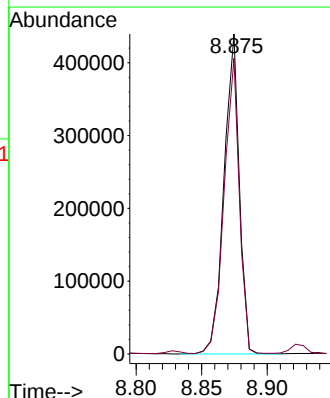
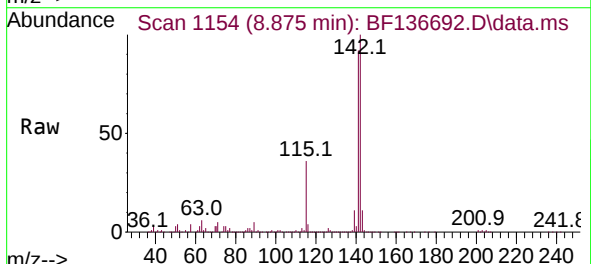
Acq: 22 Dec 2023 18:40

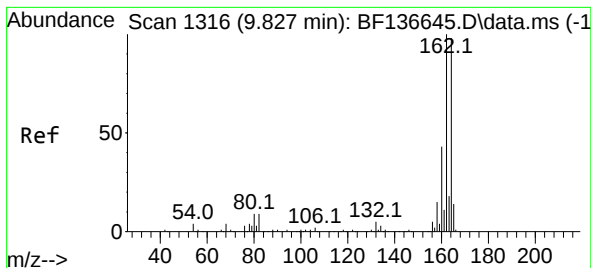
Tgt Ion:142 Resp: 357324

Ion Ratio Lower Upper

142 100

141 92.4 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

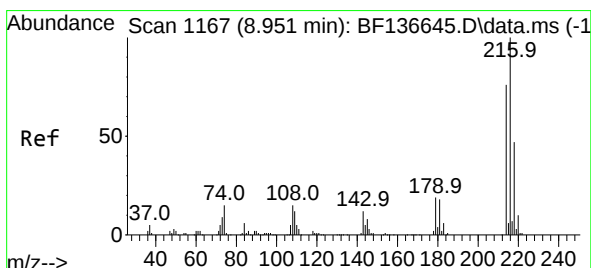
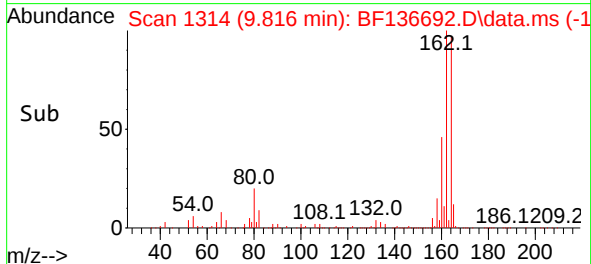
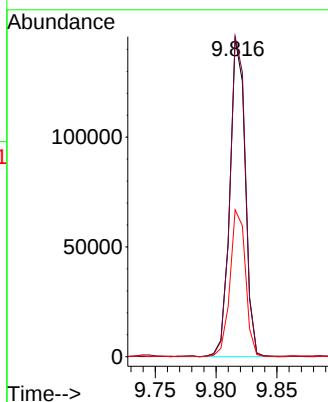
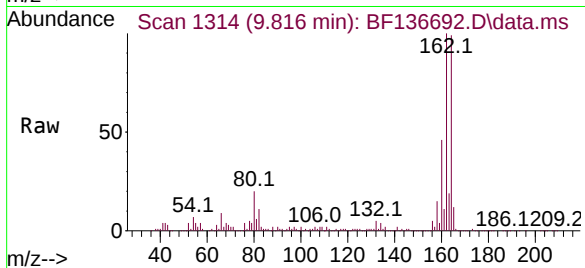
Tgt Ion:164 Resp: 127227

Ion Ratio Lower Upper

164 100

162 100.6 81.6 122.4

160 46.1 34.9 52.3



#40

1,2,4,5-Tetrachlorobenzene

Concen: 45.030 ng

RT: 8.939 min Scan# 1165

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Tgt Ion:216 Resp: 177427

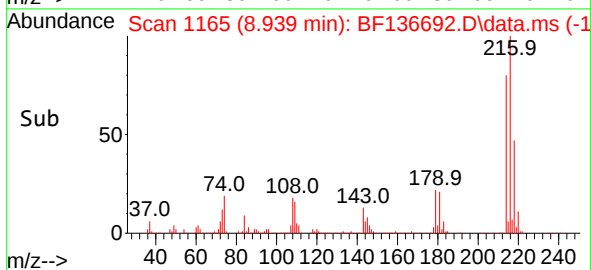
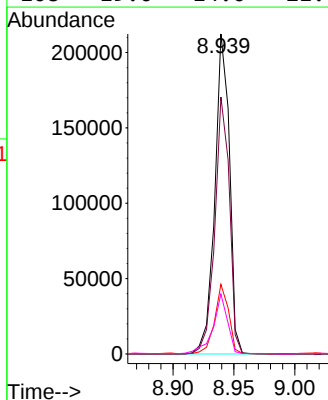
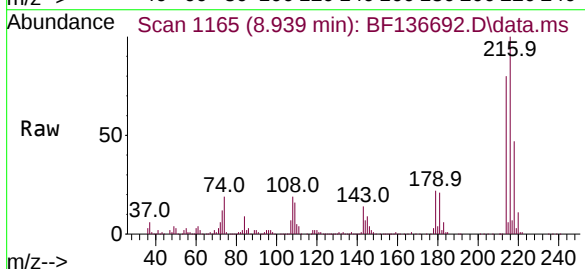
Ion Ratio Lower Upper

216 100

214 79.8 62.3 93.5

179 21.1 16.4 24.6

108 19.0 14.0 21.0

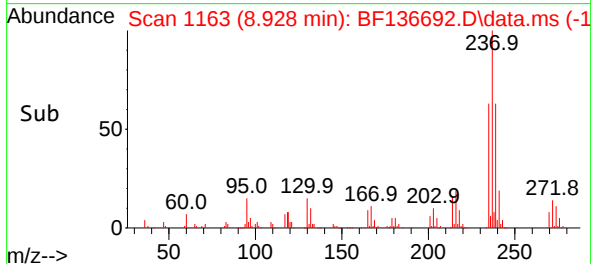
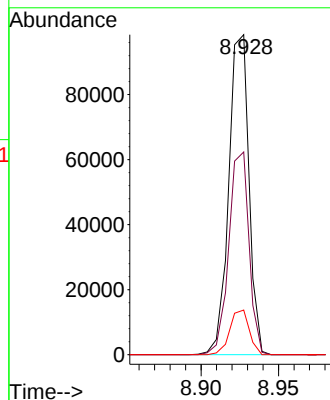
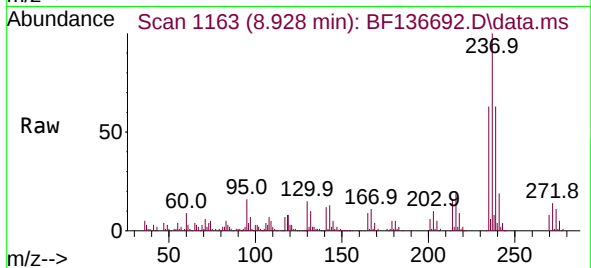




#41  
Hexachlorocyclopentadiene  
Concen: 71.578 ng  
RT: 8.928 min Scan# 1163  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

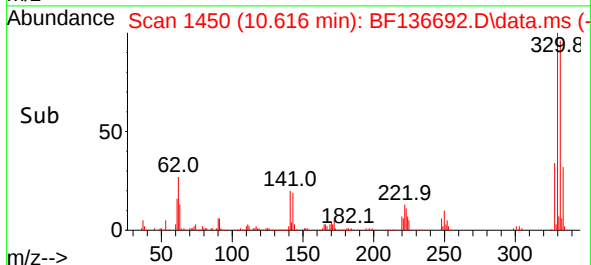
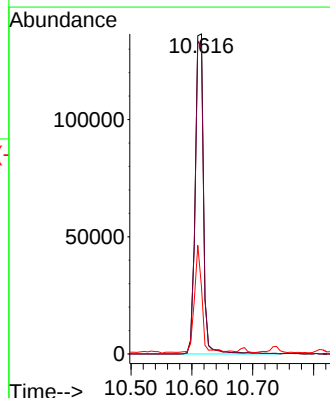
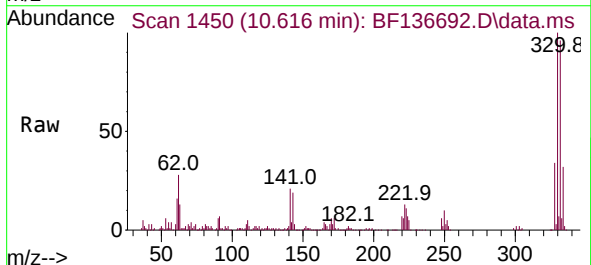
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:237 Resp: 89233  
Ion Ratio Lower Upper  
237 100  
235 63.3 43.2 83.2  
272 13.9 0.0 34.2



#42  
2,4,6-Tribromophenol  
Concen: 86.136 ng  
RT: 10.616 min Scan# 1450  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:330 Resp: 129064  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.4 116.0  
141 31.2 23.4 35.2





#43

2,4,6-Trichlorophenol

Concen: 43.852 ng

RT: 9.057 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

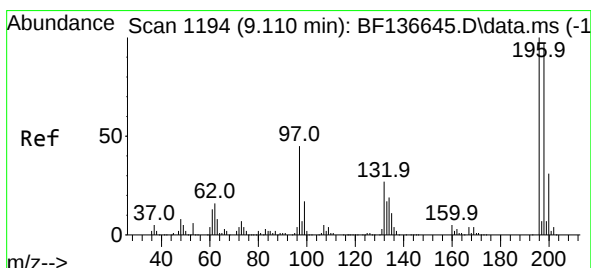
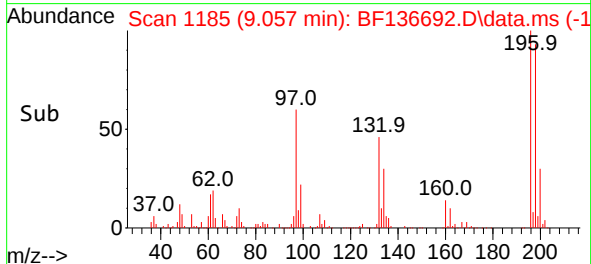
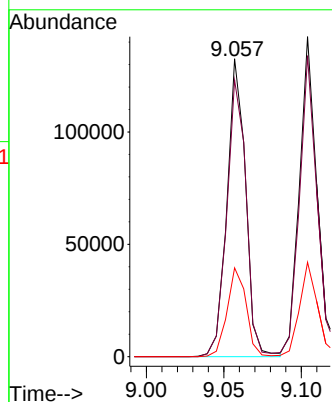
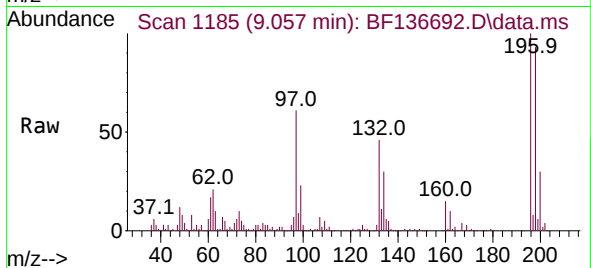
Tgt Ion:196 Resp: 110810

Ion Ratio Lower Upper

196 100

198 92.8 75.1 112.7

200 29.8 22.5 33.7



#44

2,4,5-Trichlorophenol

Concen: 41.018 ng

RT: 9.104 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Tgt Ion:196 Resp: 115500

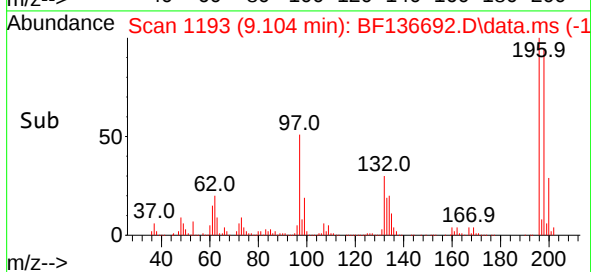
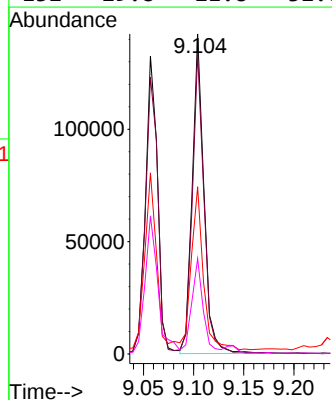
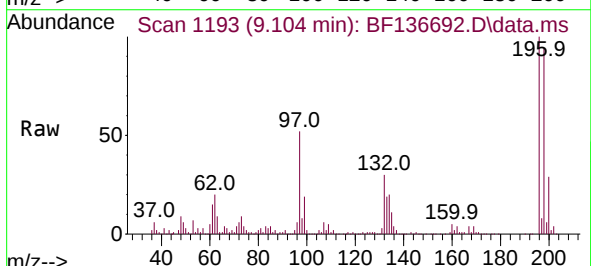
Ion Ratio Lower Upper

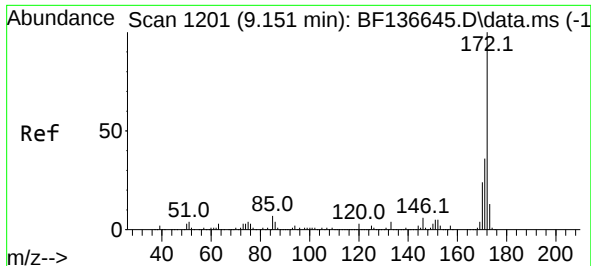
196 100

198 94.1 77.0 115.6

97 52.3 36.1 54.1

132 29.8 21.8 32.6





#45

2-Fluorobiphenyl

Concen: 67.455 ng

RT: 9.139 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

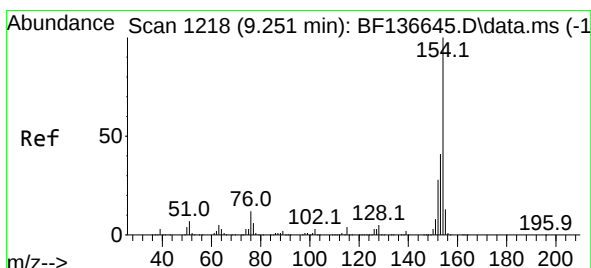
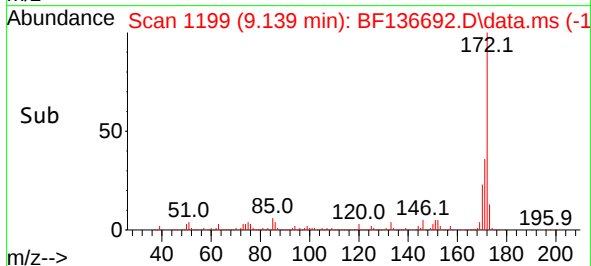
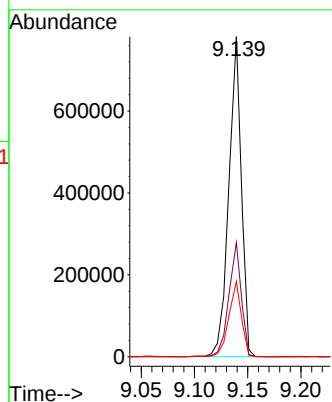
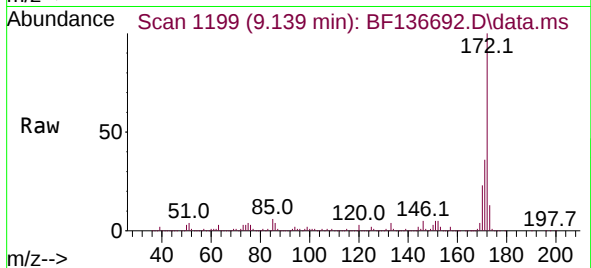
Tgt Ion:172 Resp: 638082

Ion Ratio Lower Upper

172 100

171 35.7 29.0 43.6

170 23.5 19.0 28.4



#46

1,1'-Biphenyl

Concen: 43.893 ng

RT: 9.239 min Scan# 1216

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

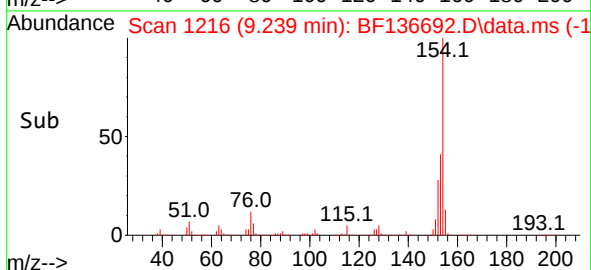
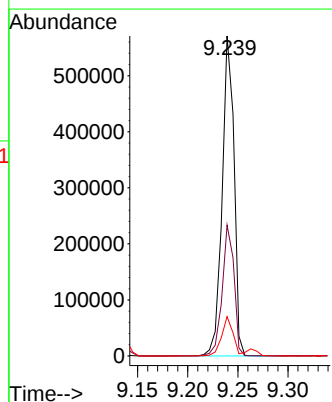
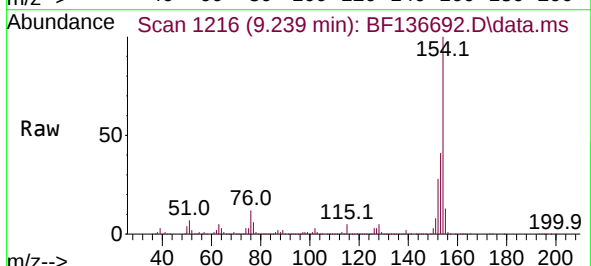
Tgt Ion:154 Resp: 468610

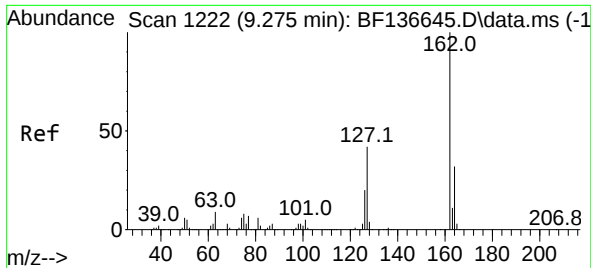
Ion Ratio Lower Upper

154 100

153 40.9 21.1 61.1

76 12.3 0.0 31.7

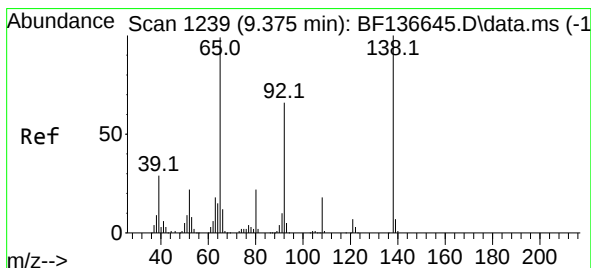
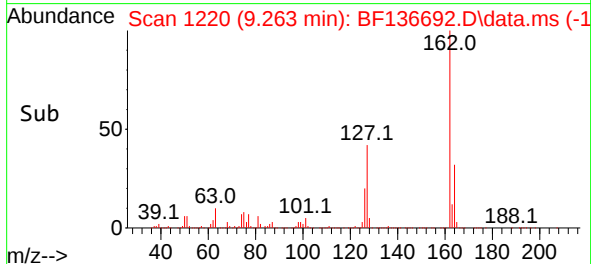
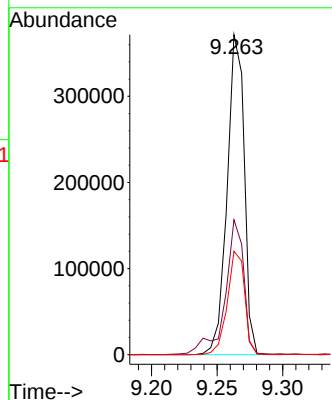
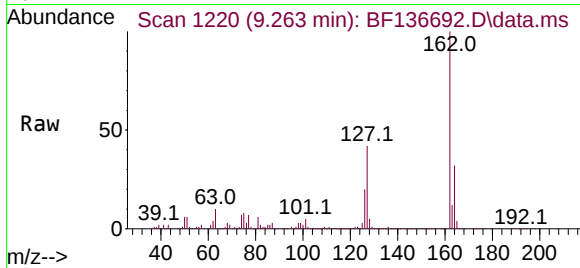




#47  
2-Chloronaphthalene  
Concen: 41.578 ng  
RT: 9.263 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

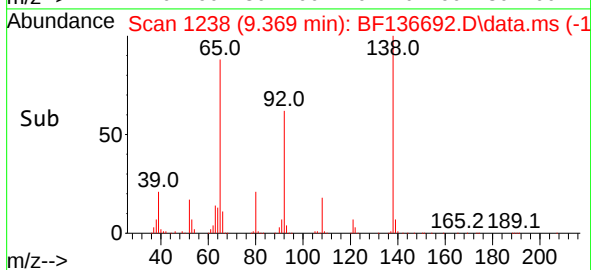
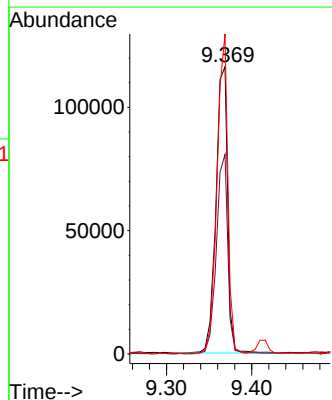
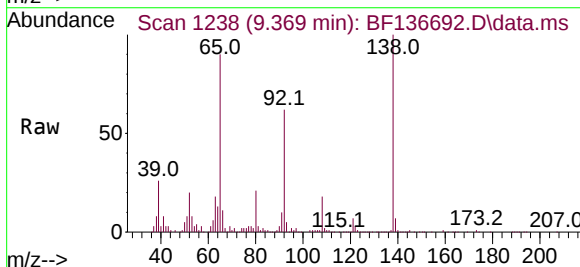
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

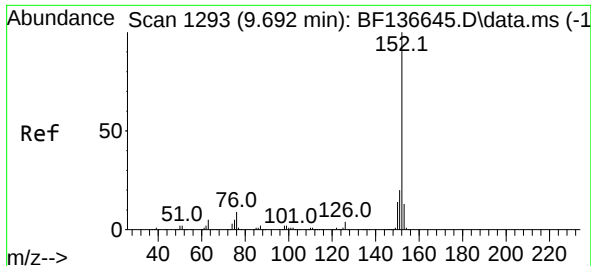
Tgt Ion:162 Resp: 337462  
Ion Ratio Lower Upper  
162 100  
127 42.2 33.6 50.4  
164 32.3 25.7 38.5



#48  
2-Nitroaniline  
Concen: 43.546 ng  
RT: 9.369 min Scan# 1238  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion: 65 Resp: 110676  
Ion Ratio Lower Upper  
65 100  
92 69.5 53.2 79.8  
138 111.4 81.1 121.7

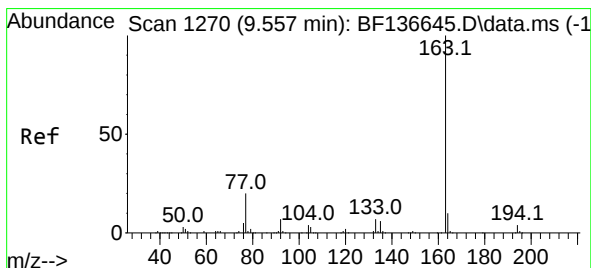
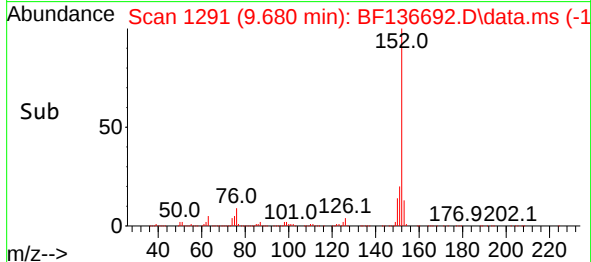
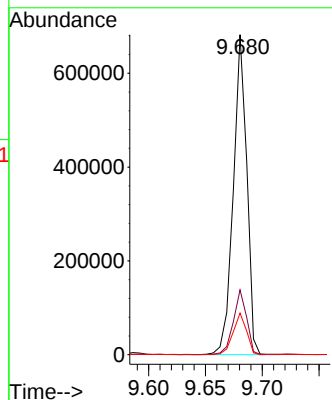
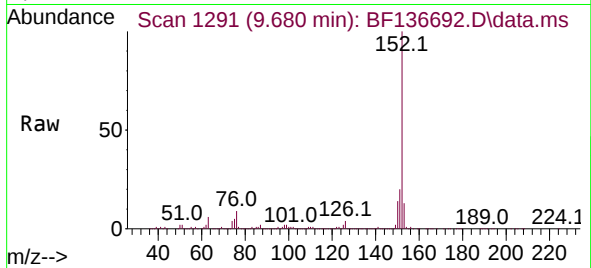




#49  
Acenaphthylene  
Concen: 45.179 ng  
RT: 9.680 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

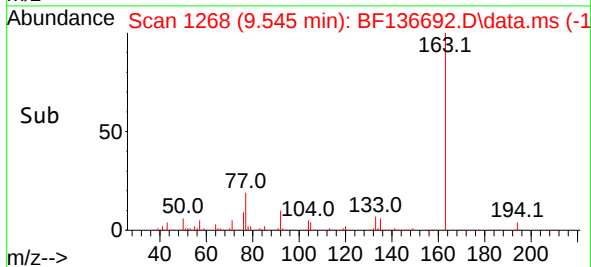
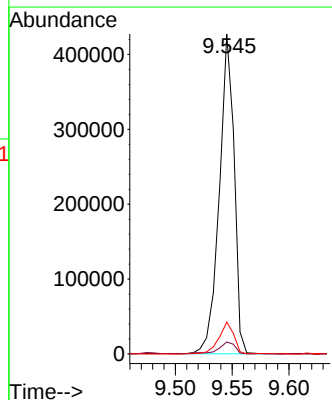
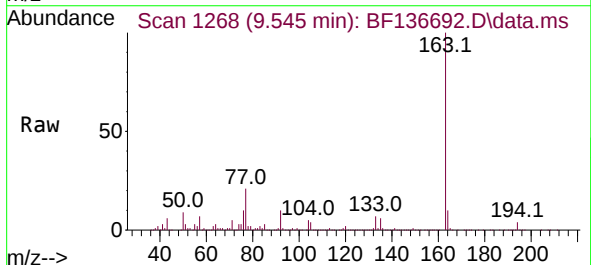
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

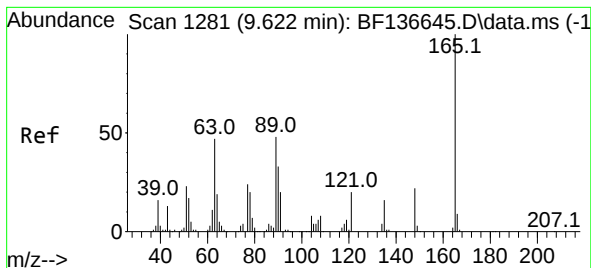
Tgt Ion:152 Resp: 560469  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.2 24.4  
153 13.0 10.2 15.2



#50  
Dimethylphthalate  
Concen: 41.785 ng  
RT: 9.545 min Scan# 1268  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:163 Resp: 388305  
Ion Ratio Lower Upper  
163 100  
194 3.7 3.3 4.9  
164 10.0 7.8 11.6

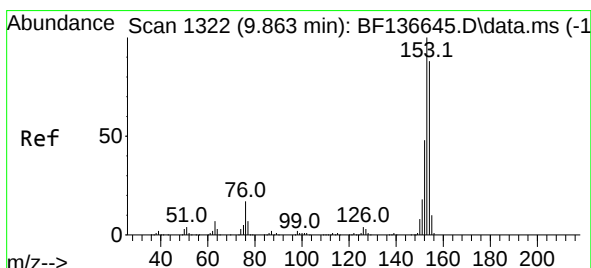
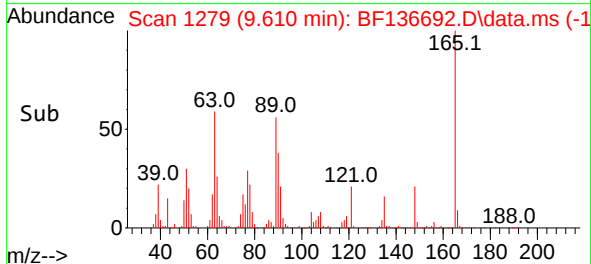
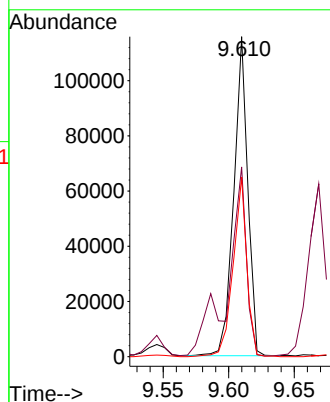
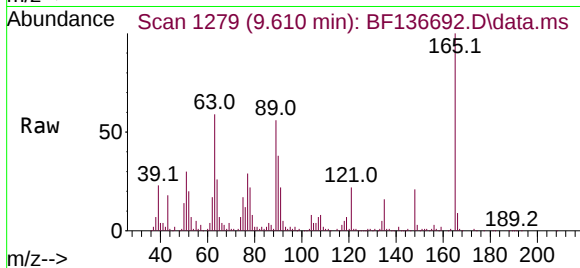




#51  
2,6-Dinitrotoluene  
Concen: 40.777 ng  
RT: 9.610 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

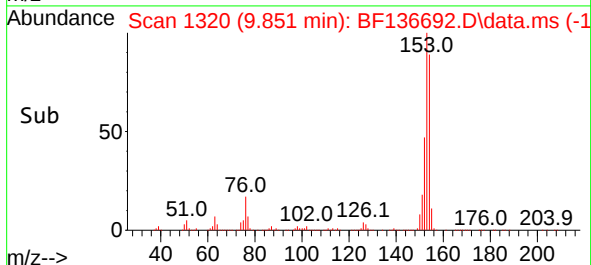
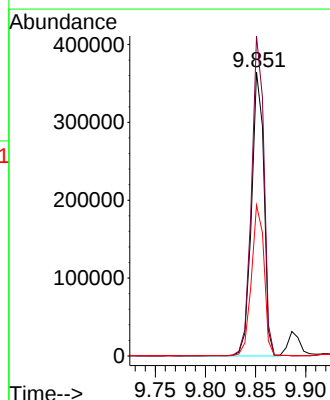
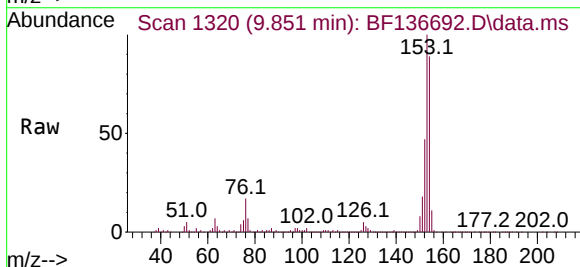
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

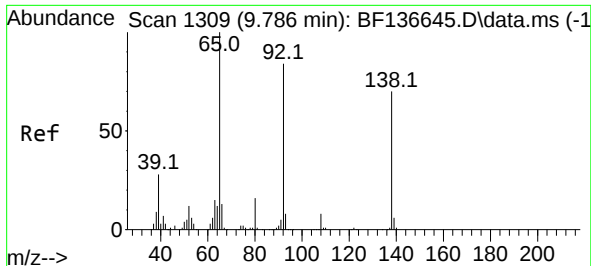
Tgt Ion:165 Resp: 86001  
Ion Ratio Lower Upper  
165 100  
63 59.3 39.8 59.6  
89 56.1 38.8 58.2



#52  
Acenaphthene  
Concen: 40.756 ng  
RT: 9.851 min Scan# 1320  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:154 Resp: 313417  
Ion Ratio Lower Upper  
154 100  
153 112.7 90.7 136.1  
152 53.2 43.7 65.5

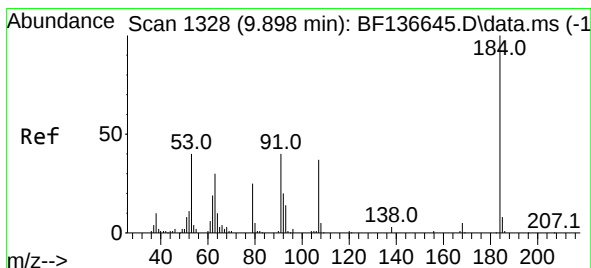
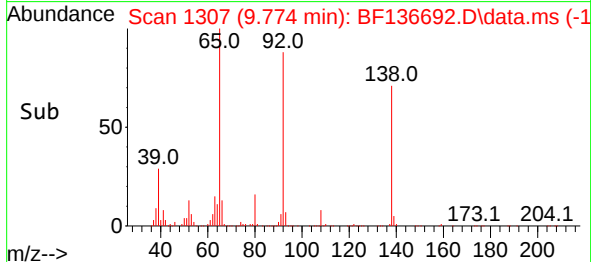
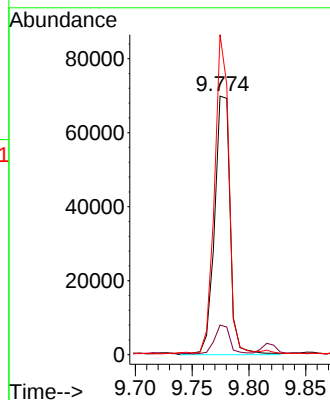
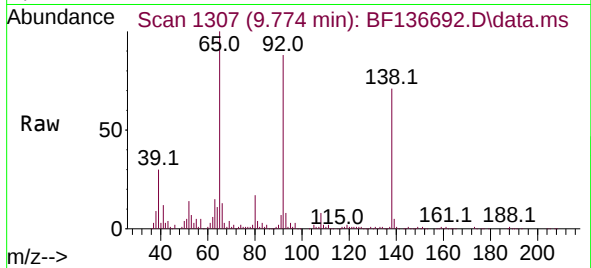




#53  
3-Nitroaniline  
Concen: 29.962 ng  
RT: 9.774 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

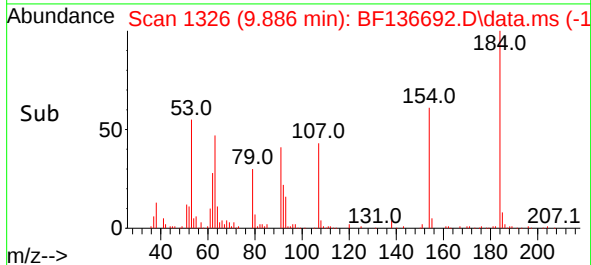
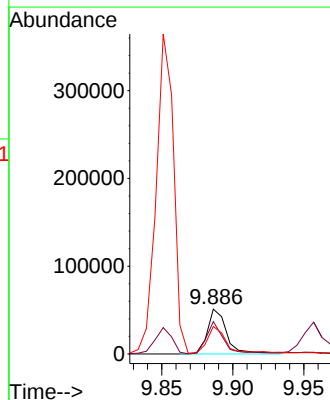
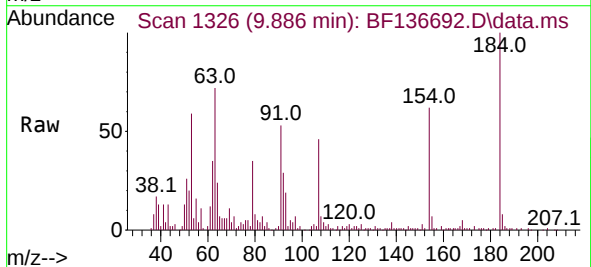
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

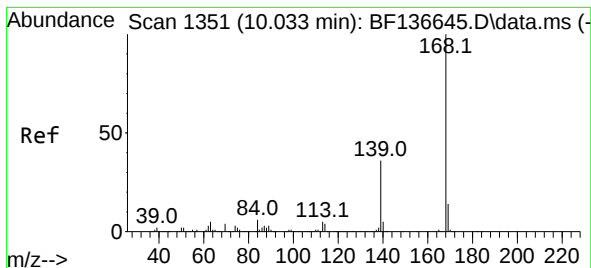
Tgt Ion:138 Resp: 66940  
Ion Ratio Lower Upper  
138 100  
108 11.5 8.6 12.8  
92 123.7 95.2 142.8



#54  
2,4-Dinitrophenol  
Concen: 42.695 ng  
RT: 9.886 min Scan# 1326  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:184 Resp: 47770  
Ion Ratio Lower Upper  
184 100  
63 72.4 40.9 61.3#  
154 61.6 42.7 64.1





#55

Dibenzenofuran

Concen: 40.789 ng

RT: 10.027 min Scan# 1350

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

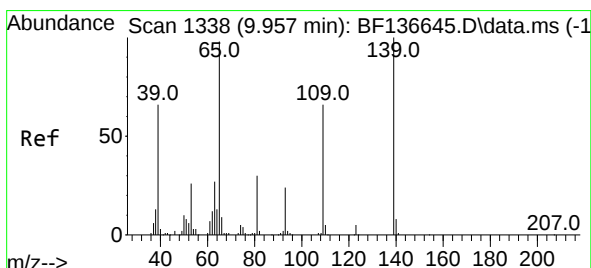
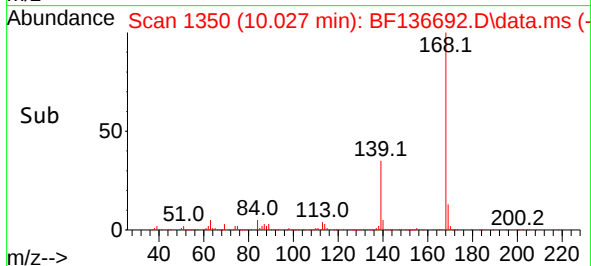
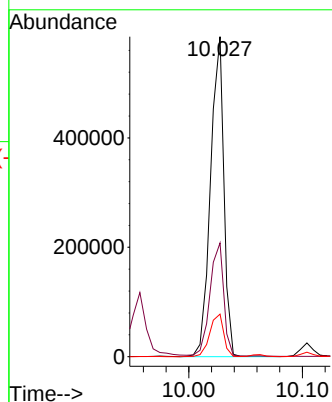
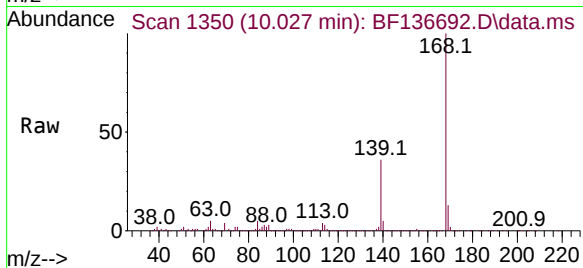
Tgt Ion:168 Resp: 475478

Ion Ratio Lower Upper

168 100

139 35.6 29.3 43.9

169 13.3 11.0 16.4



#56

4-Nitrophenol

Concen: 72.772 ng

RT: 9.957 min Scan# 1338

Delta R.T. 0.000 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

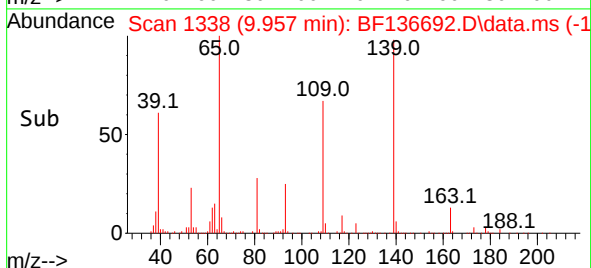
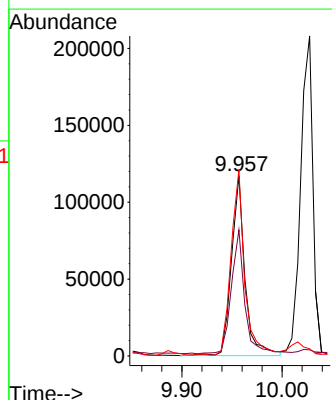
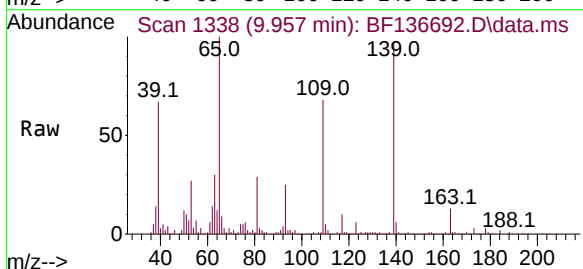
Tgt Ion:139 Resp: 109753

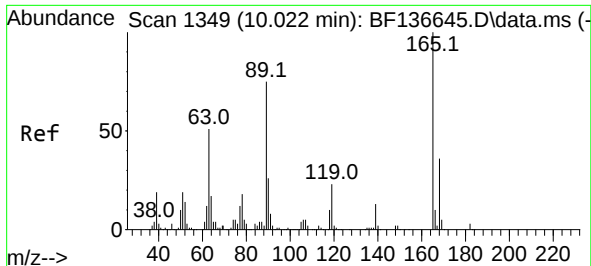
Ion Ratio Lower Upper

139 100

109 69.9 45.8 85.8

65 103.4 77.8 117.8

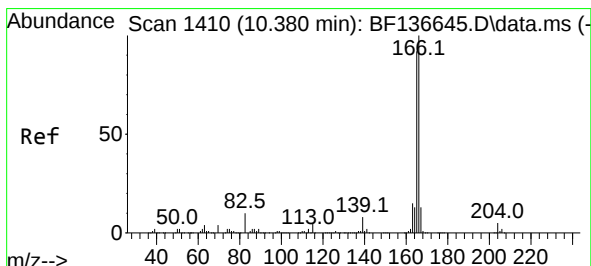
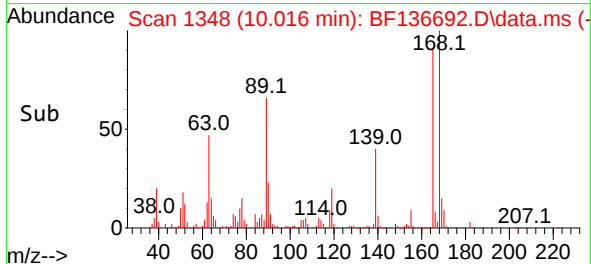
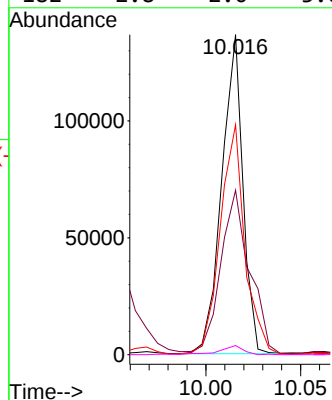
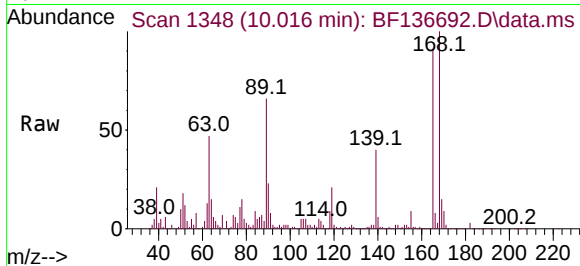




#57  
2,4-Dinitrotoluene  
Concen: 38.843 ng  
RT: 10.016 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

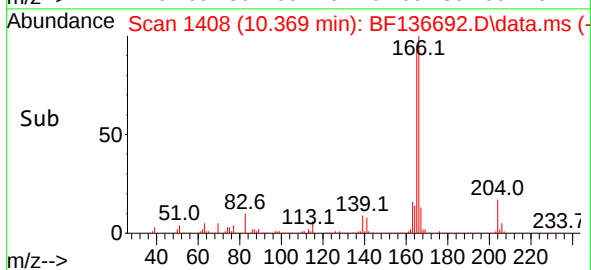
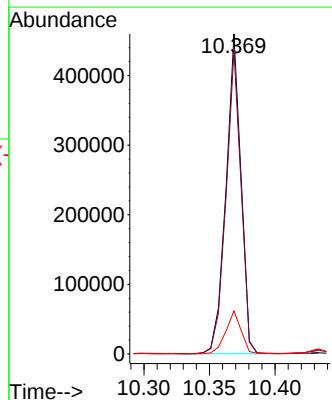
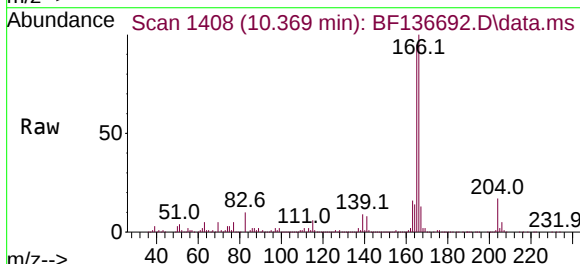
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:165 Resp: 106349  
Ion Ratio Lower Upper  
165 100  
63 51.4 41.0 61.6  
89 71.8 59.9 89.9  
182 2.8 2.0 3.0



#58  
Fluorene  
Concen: 39.425 ng  
RT: 10.369 min Scan# 1408  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:166 Resp: 364661  
Ion Ratio Lower Upper  
166 100  
165 94.9 73.7 110.5  
167 13.5 10.4 15.6

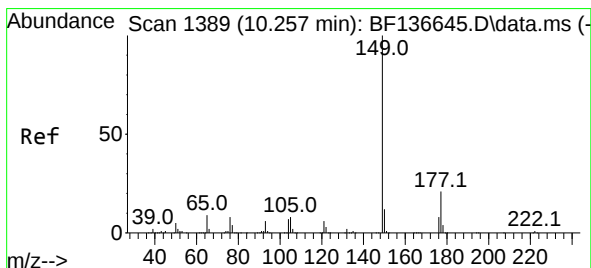
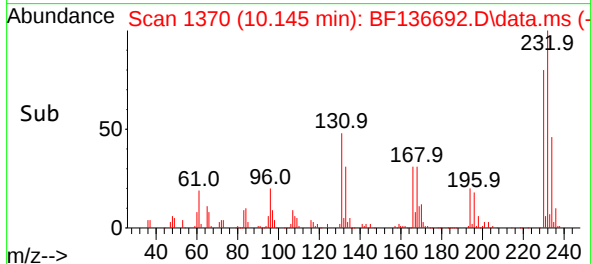
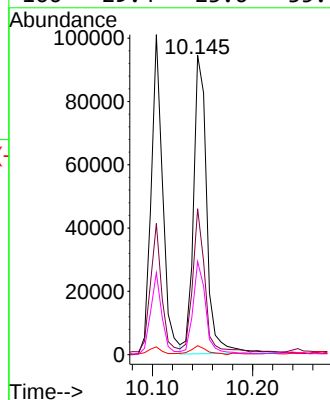
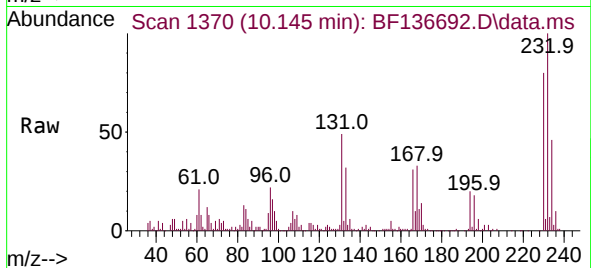




#59  
2,3,4,6-Tetrachlorophenol  
Concen: 39.936 ng  
RT: 10.145 min Scan# 1372  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

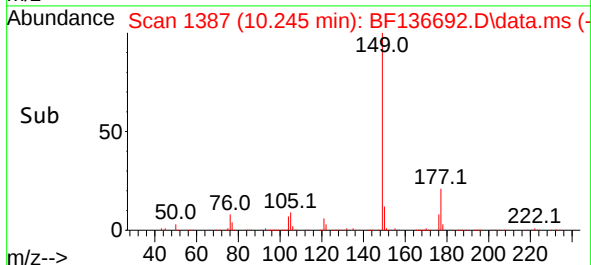
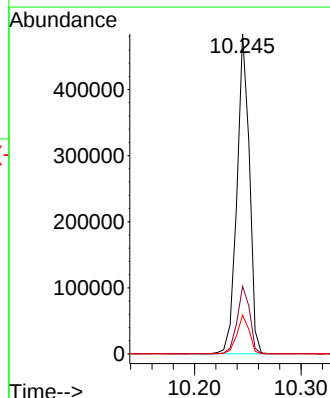
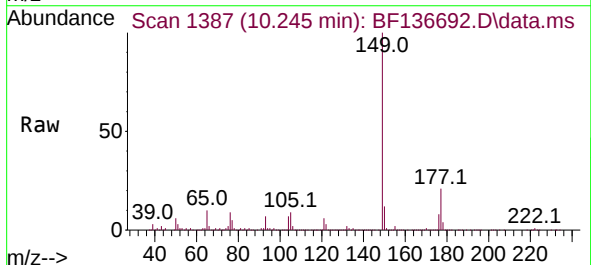
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:232 Resp: 86565  
Ion Ratio Lower Upper  
232 100  
131 43.6 35.1 52.7  
130 3.8 1.6 2.4#  
166 29.4 23.6 35.4



#60  
Diethylphthalate  
Concen: 40.789 ng  
RT: 10.245 min Scan# 1387  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:149 Resp: 393284  
Ion Ratio Lower Upper  
149 100  
177 21.1 16.9 25.3  
150 12.2 9.3 13.9

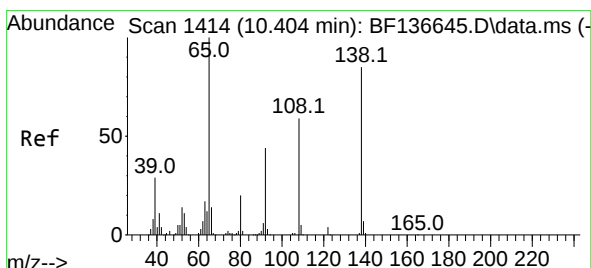
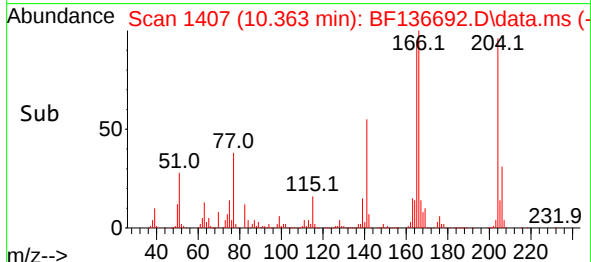
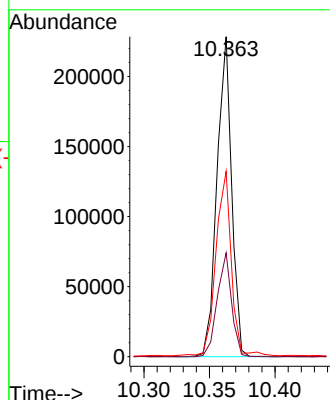
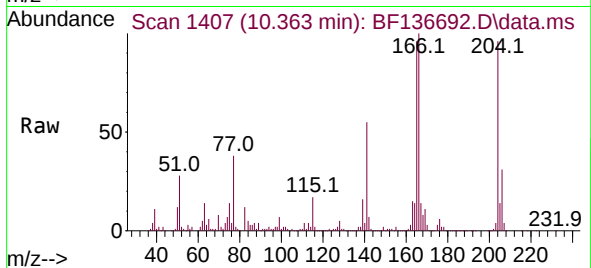




#61  
4-Chlorophenyl-phenylether  
Concen: 39.314 ng  
RT: 10.363 min Scan# 1408  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

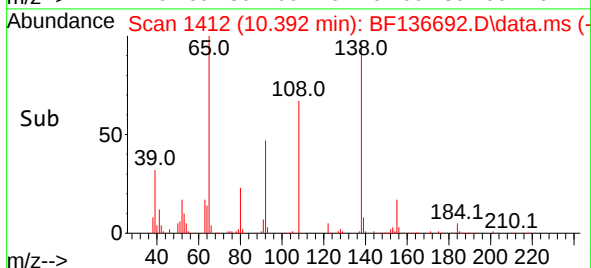
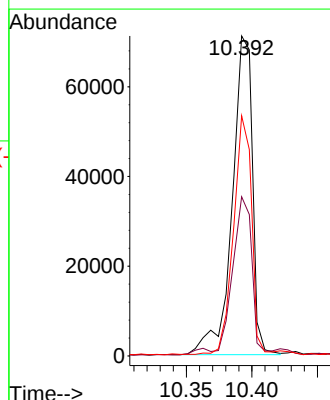
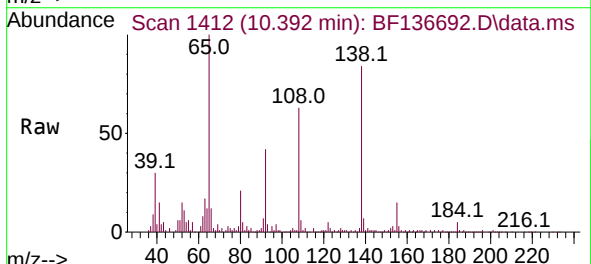
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

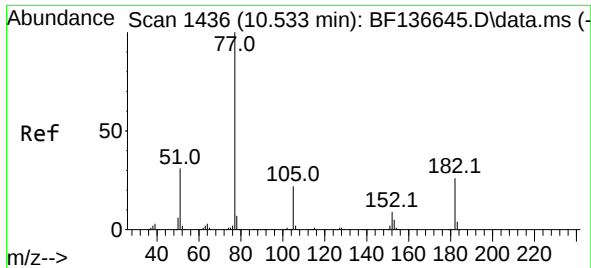
Tgt Ion:204 Resp: 176750  
Ion Ratio Lower Upper  
204 100  
206 32.5 25.6 38.4  
141 57.9 48.4 72.6



#62  
4-Nitroaniline  
Concen: 35.475 ng  
RT: 10.392 min Scan# 1412  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:138 Resp: 76405  
Ion Ratio Lower Upper  
138 100  
92 49.7 32.1 72.1  
108 75.1 50.1 90.1



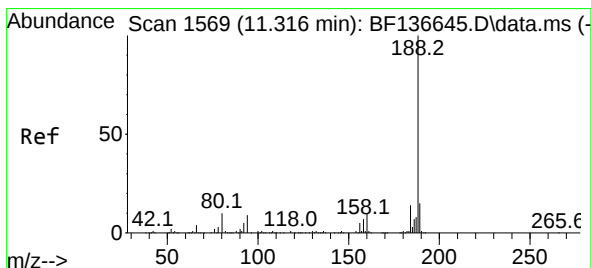
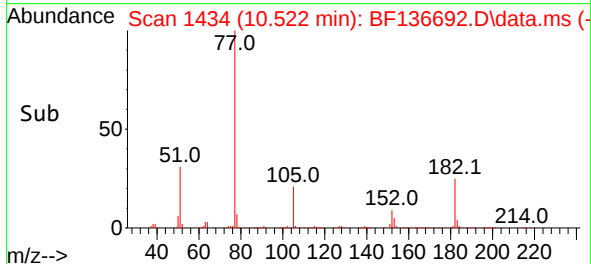
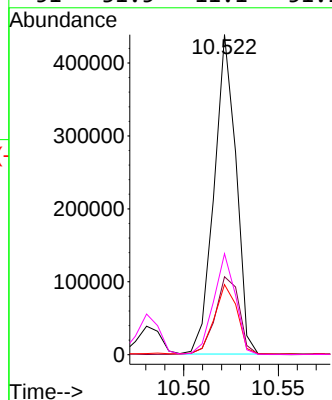
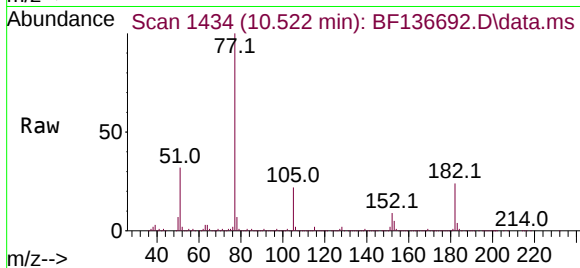


#63  
Azobenzene  
Concen: 39.081 ng  
RT: 10.522 min Scan# 1436  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion: 77 Resp: 351950

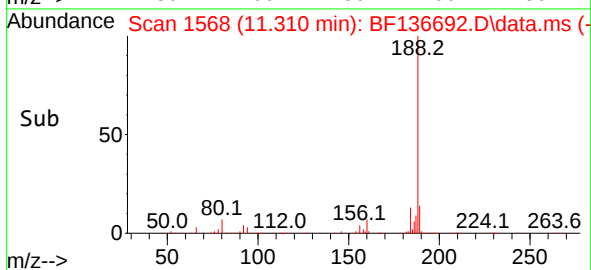
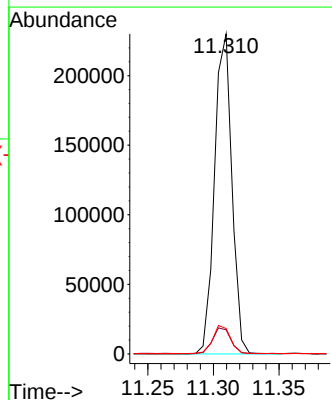
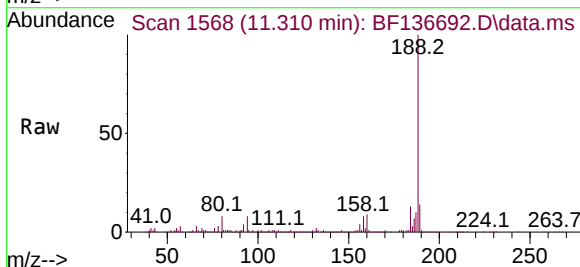
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 182 | 24.4  | 6.0   | 46.0  |
| 105 | 21.9  | 2.3   | 42.3  |
| 51  | 31.5  | 11.1  | 51.1  |

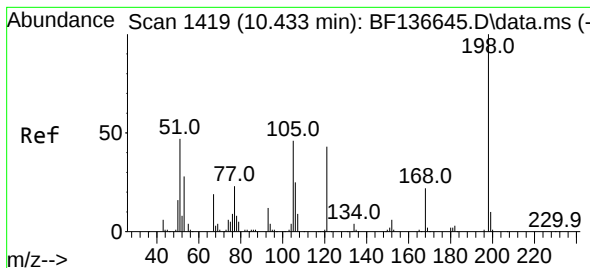


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.310 min Scan# 1568  
Delta R.T. -0.006 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion: 188 Resp: 211481

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 7.5   | 7.5   | 11.3  |
| 80  | 7.9   | 8.1   | 12.1  |

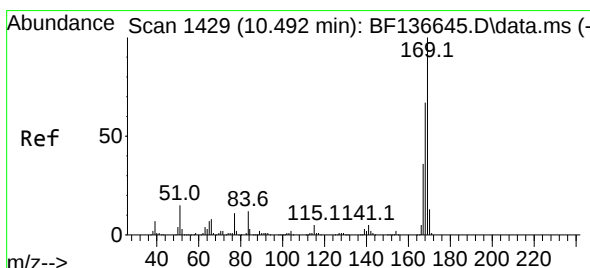
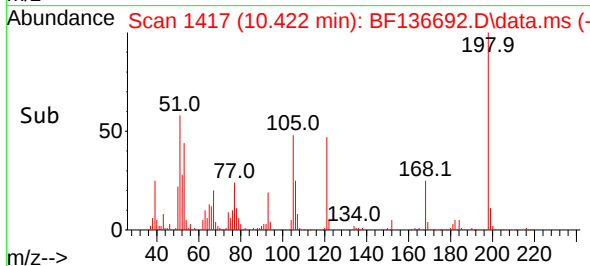
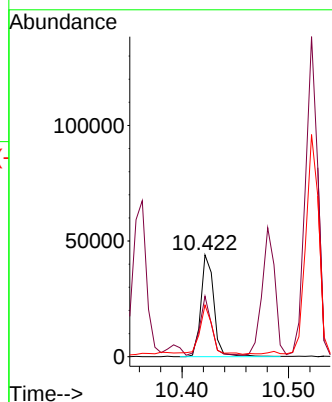
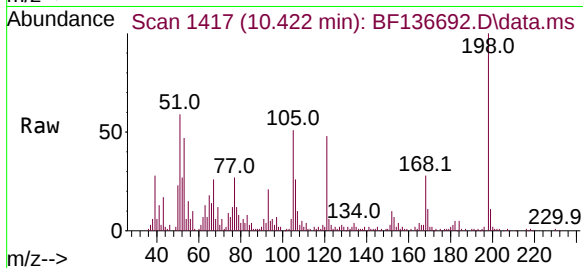




#65  
4,6-Dinitro-2-methylphenol  
Concen: 30.782 ng  
RT: 10.422 min Scan# 1419  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

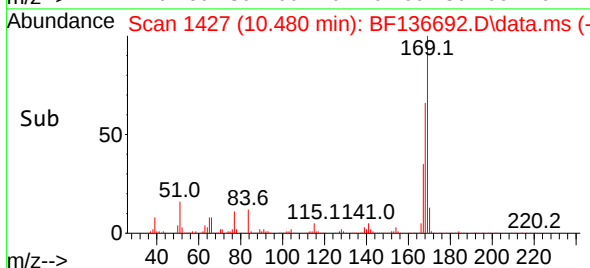
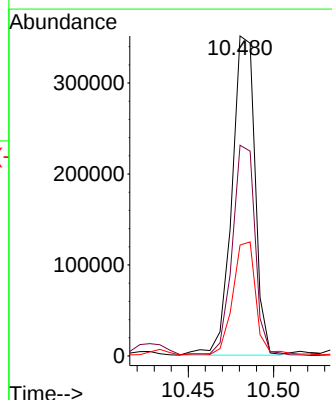
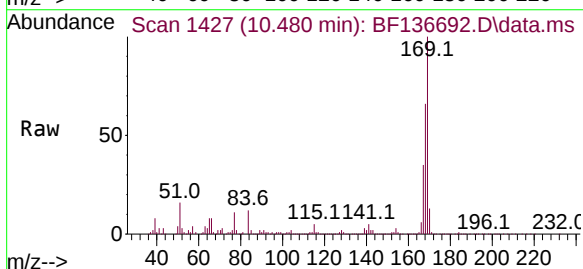
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:198 Resp: 37308  
Ion Ratio Lower Upper  
198 100  
51 59.4 34.1 74.1  
105 50.7 27.3 67.3



#66  
n-Nitrosodiphenylamine  
Concen: 48.300 ng  
RT: 10.480 min Scan# 1427  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:169 Resp: 331812  
Ion Ratio Lower Upper  
169 100  
168 65.8 53.8 80.6  
167 34.7 28.7 43.1

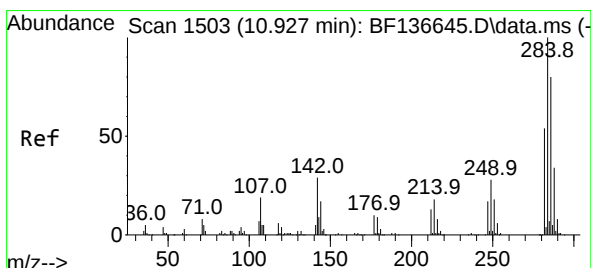
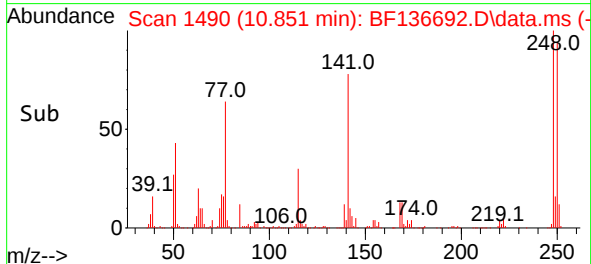
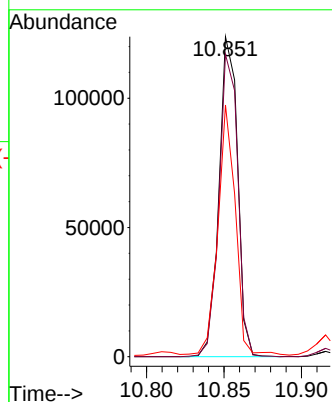
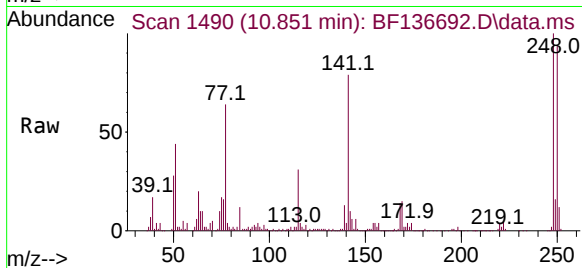




#67  
4-Bromophenyl-phenylether  
Concen: 43.988 ng  
RT: 10.851 min Scan# 1490  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

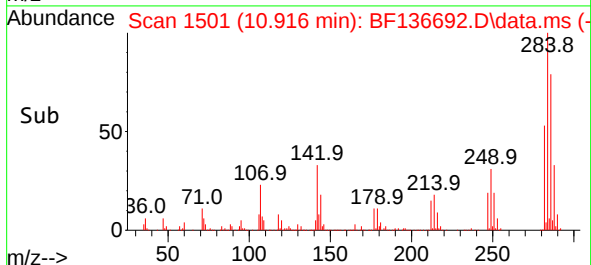
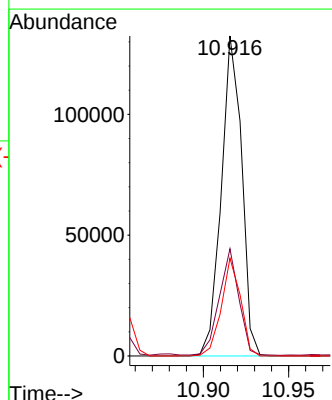
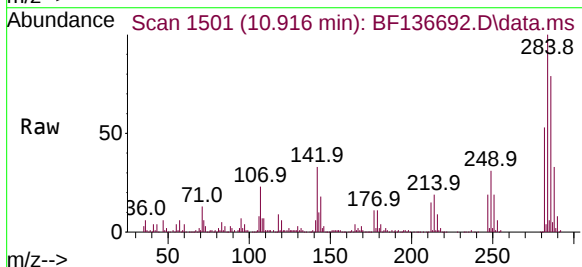
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

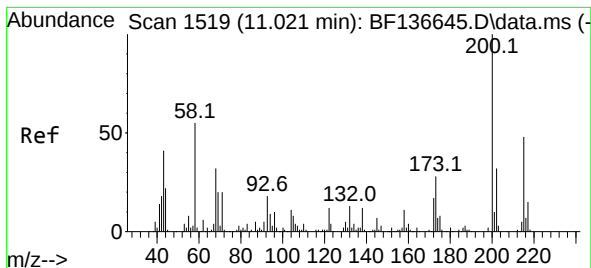
Tgt Ion:248 Resp: 103312  
Ion Ratio Lower Upper  
248 100  
250 94.5 77.8 116.6  
141 78.6 59.2 88.8



#68  
Hexachlorobenzene  
Concen: 42.118 ng  
RT: 10.916 min Scan# 1501  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:284 Resp: 110239  
Ion Ratio Lower Upper  
284 100  
142 33.5 23.4 35.0  
249 30.5 22.3 33.5





#69

Atrazine

Concen: 57.148 ng

RT: 11.016 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

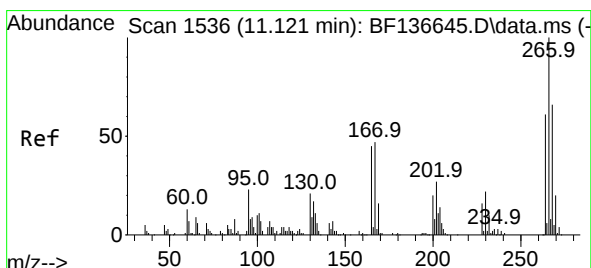
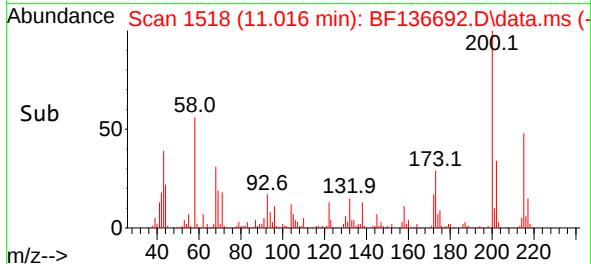
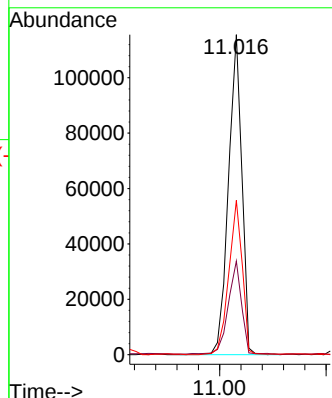
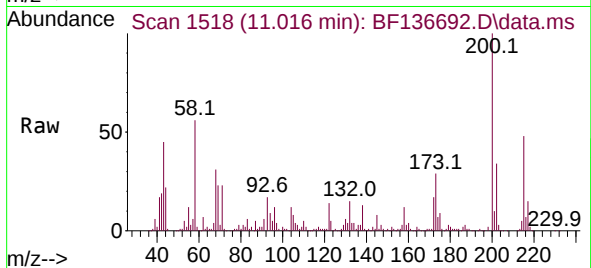
Tgt Ion:200 Resp: 100415

Ion Ratio Lower Upper

200 100

173 29.3 7.6 47.6

215 48.2 28.3 68.3



#70

Pentachlorophenol

Concen: 73.998 ng

RT: 11.116 min Scan# 1535

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

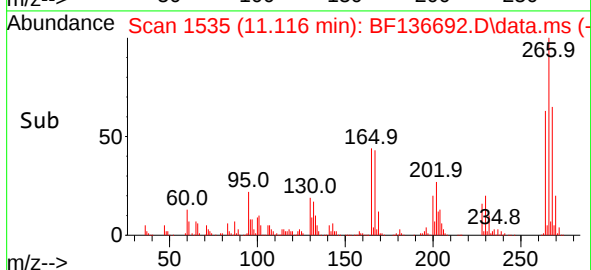
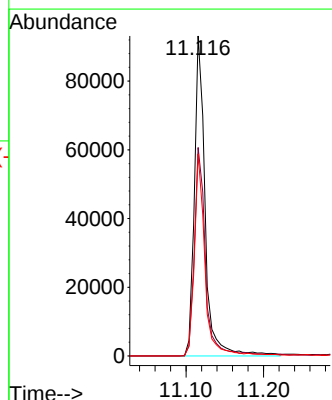
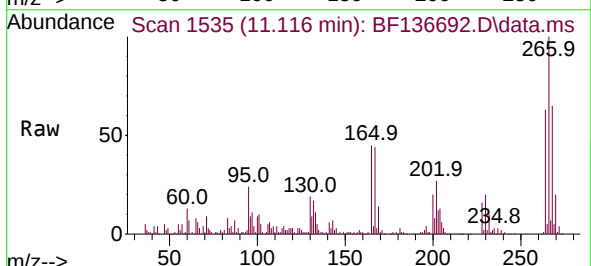
Tgt Ion:266 Resp: 90277

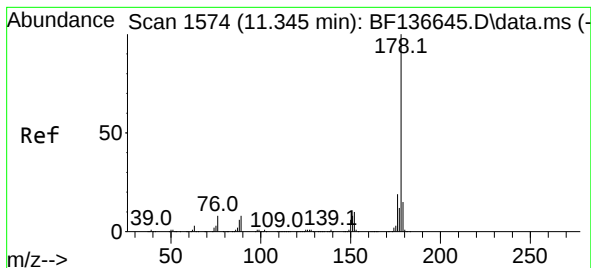
Ion Ratio Lower Upper

266 100

268 65.2 52.6 78.8

264 63.2 49.0 73.4





#71

Phenanthrene

Concen: 42.631 ng

RT: 11.333 min Scan# 1572

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

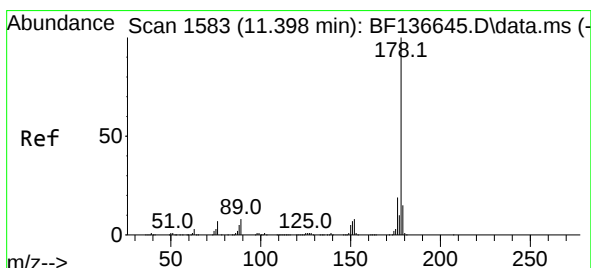
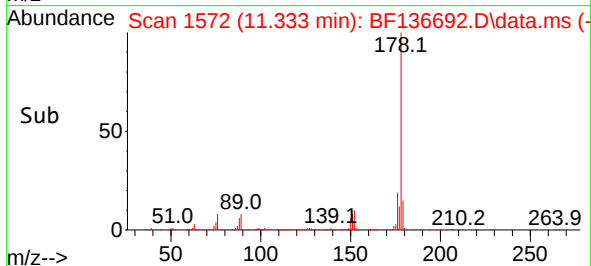
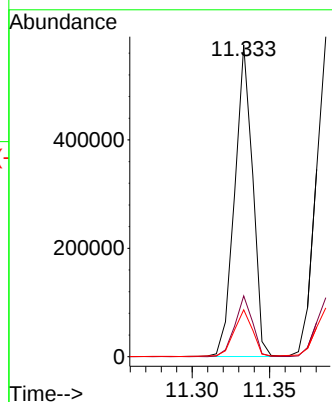
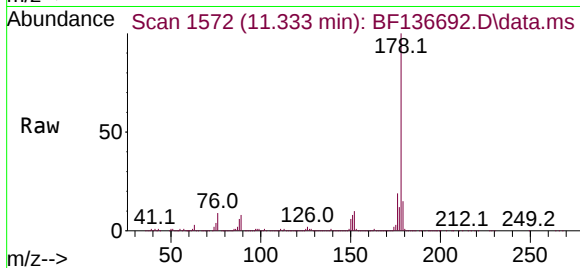
Tgt Ion:178 Resp: 462600

Ion Ratio Lower Upper

178 100

176 19.5 15.3 22.9

179 15.0 11.9 17.9



#72

Anthracene

Concen: 42.213 ng

RT: 11.386 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

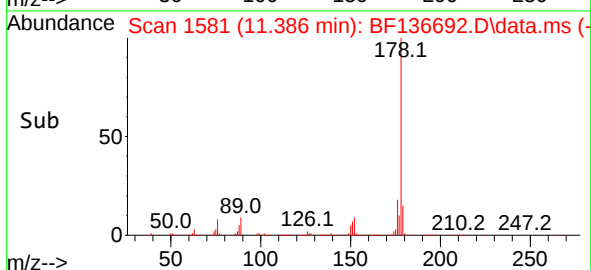
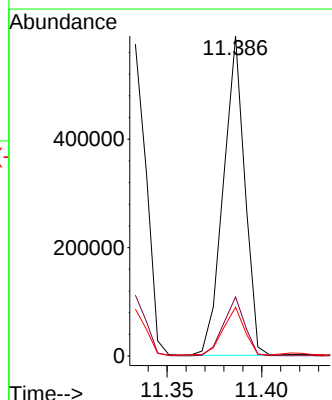
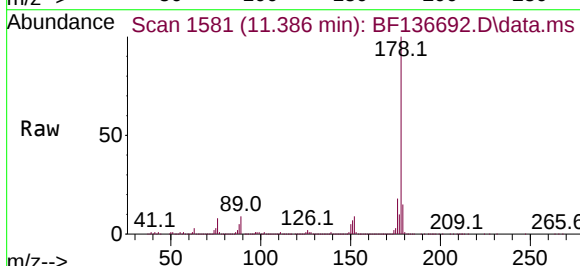
Tgt Ion:178 Resp: 463900

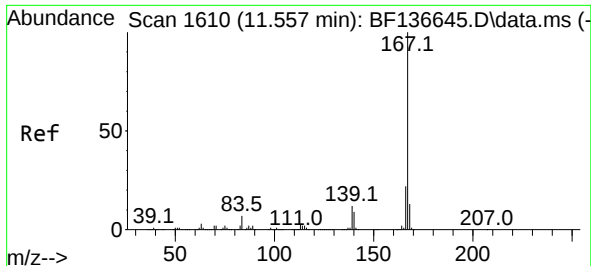
Ion Ratio Lower Upper

178 100

176 18.5 14.9 22.3

179 15.2 11.8 17.6

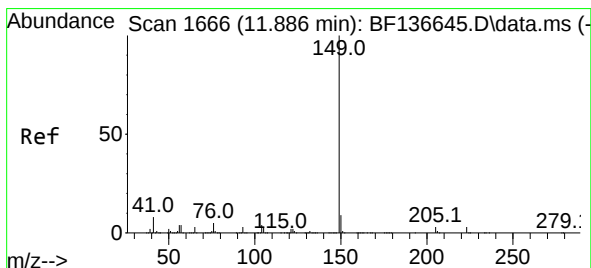
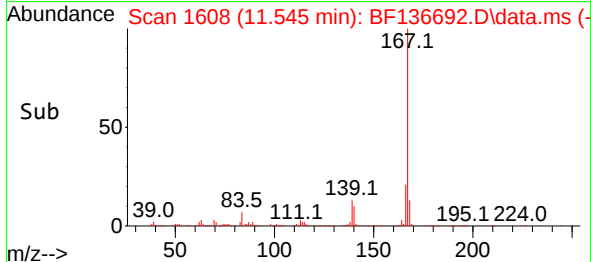
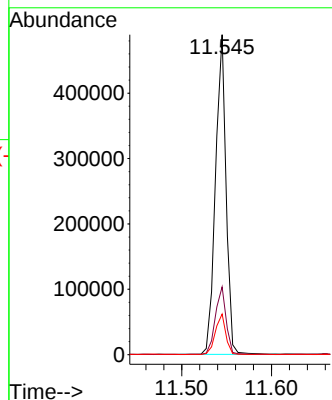
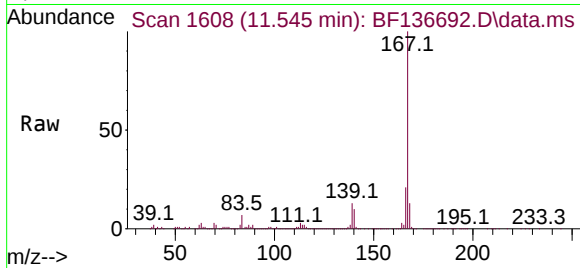




#73  
Carbazole  
Concen: 38.633 ng  
RT: 11.545 min Scan# 1608  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

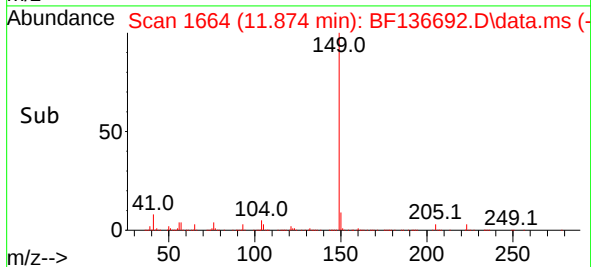
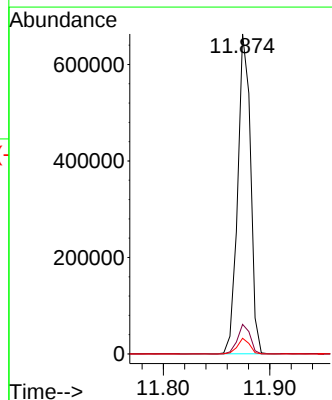
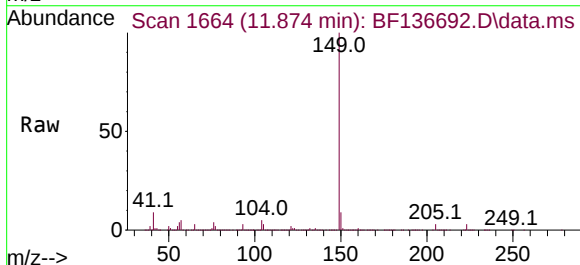
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-COMP-2MSD

Tgt Ion:167 Resp: 400281  
Ion Ratio Lower Upper  
167 100  
166 21.2 17.3 25.9  
139 12.7 9.8 14.6



#74  
Di-n-butylphthalate  
Concen: 43.914 ng  
RT: 11.874 min Scan# 1664  
Delta R.T. -0.012 min  
Lab File: BF136692.D  
Acq: 22 Dec 2023 18:40

Tgt Ion:149 Resp: 555207  
Ion Ratio Lower Upper  
149 100  
150 9.3 7.4 11.2  
104 4.9 3.6 5.4





#75

Fluoranthene

Concen: 35.976 ng

RT: 12.527 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

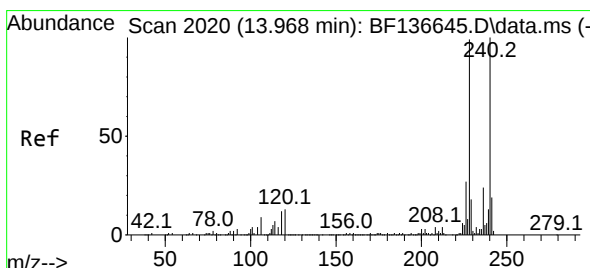
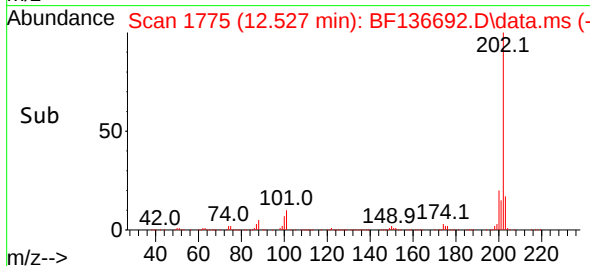
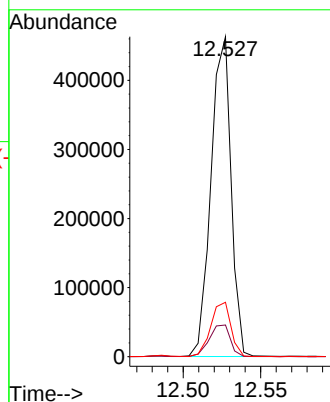
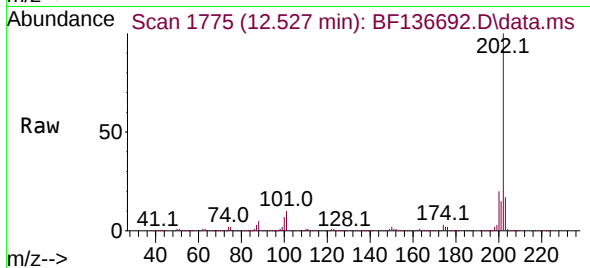
Tgt Ion:202 Resp: 417577

Ion Ratio Lower Upper

202 100

101 9.9 0.0 29.3

203 17.0 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.962 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

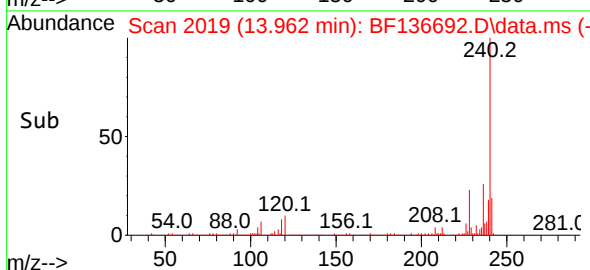
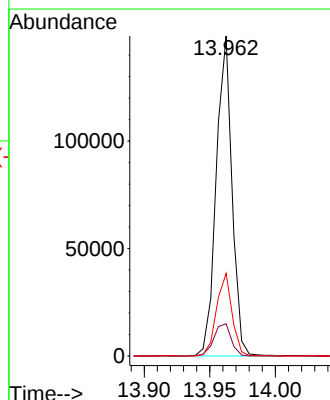
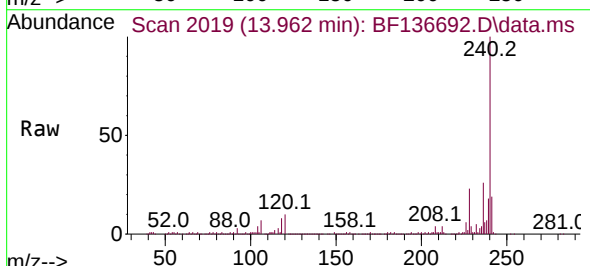
Tgt Ion:240 Resp: 124515

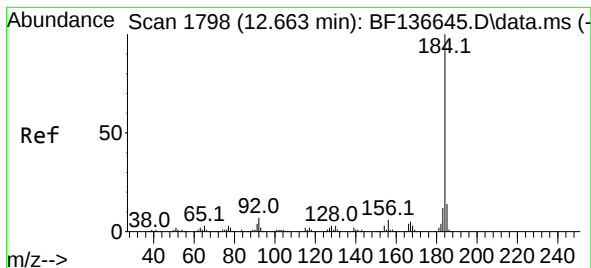
Ion Ratio Lower Upper

240 100

120 10.0 10.3 15.5#

236 25.8 19.4 29.2





#77

Benzidine

Concen: 30.255 ng

RT: 12.651 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

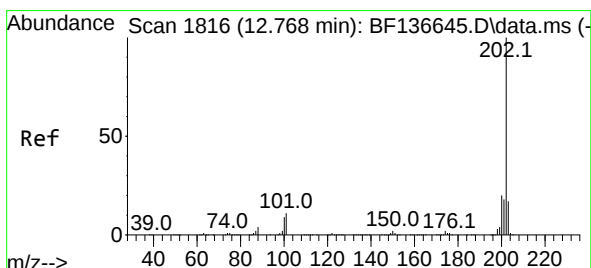
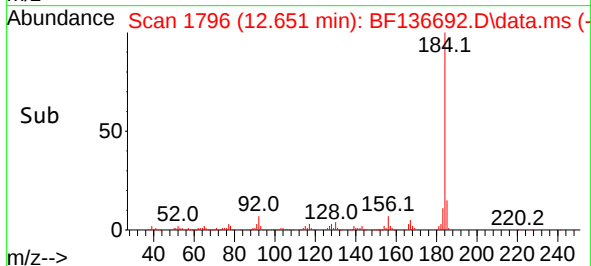
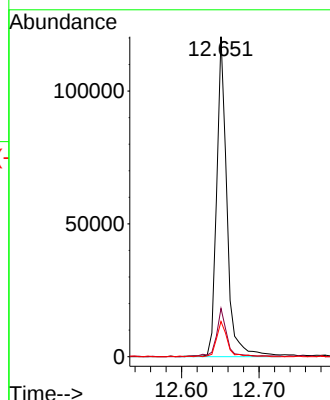
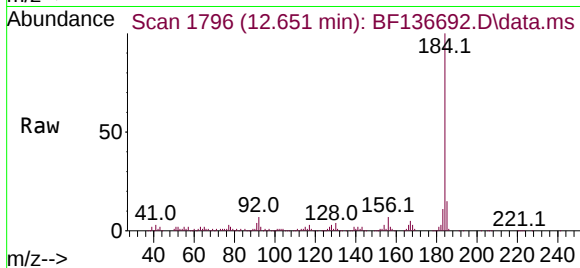
Tgt Ion:184 Resp: 111080

Ion Ratio Lower Upper

184 100

185 15.1 11.2 16.8

183 11.0 9.3 13.9



#78

Pyrene

Concen: 33.662 ng

RT: 12.757 min Scan# 1814

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

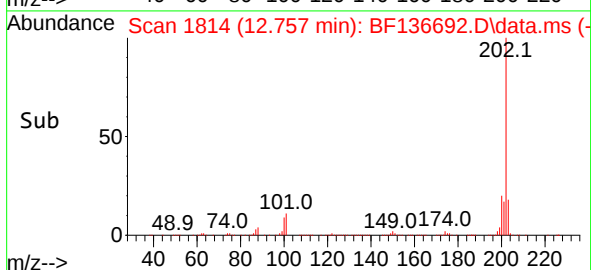
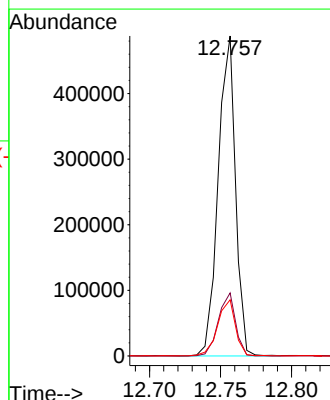
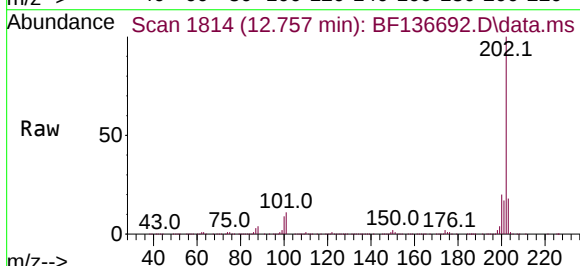
Tgt Ion:202 Resp: 411458

Ion Ratio Lower Upper

202 100

200 19.7 15.9 23.9

203 17.5 13.8 20.6





#79

Terphenyl-d14

Concen: 55.892 ng

RT: 12.898 min Scan# 1838

Delta R.T. -0.018 min

Lab File: BF136692.D

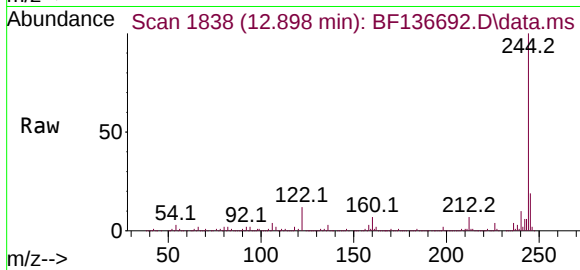
Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD



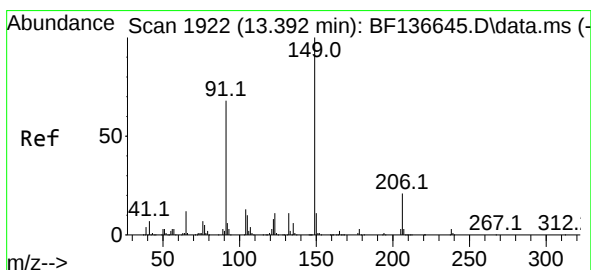
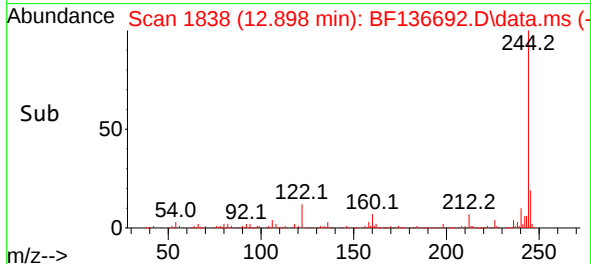
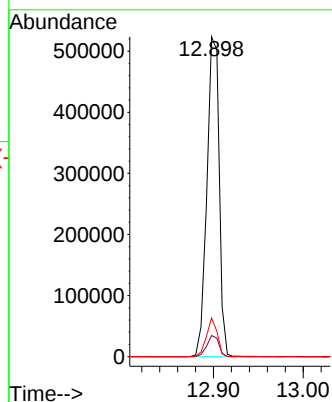
Tgt Ion:244 Resp: 497999

Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

122 12.1 9.0 13.4



#80

Butylbenzylphthalate

Concen: 39.620 ng

RT: 13.380 min Scan# 1920

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

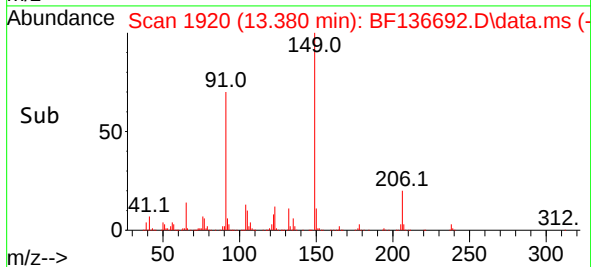
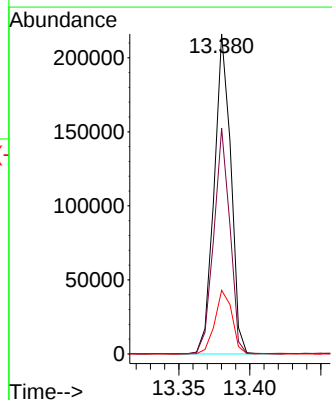
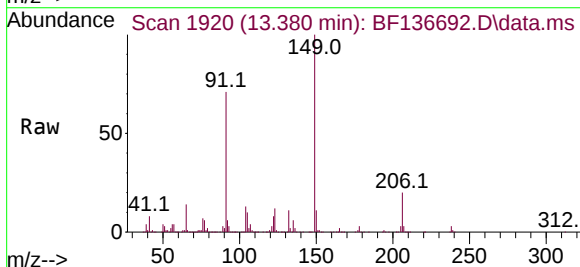
Tgt Ion:149 Resp: 176219

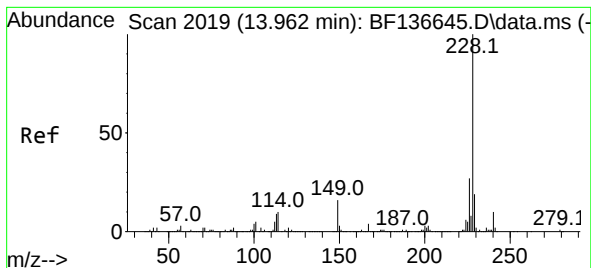
Ion Ratio Lower Upper

149 100

91 70.6 54.1 81.1

206 19.9 17.1 25.7





#81

Benzo(a)anthracene

Concen: 41.210 ng

RT: 13.951 min Scan# 2011

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

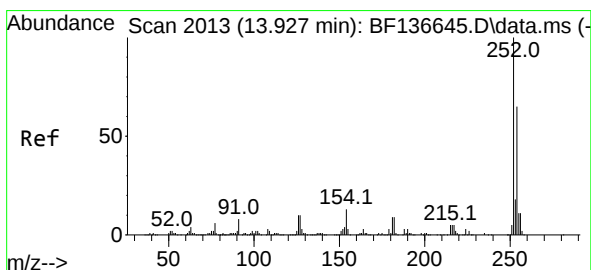
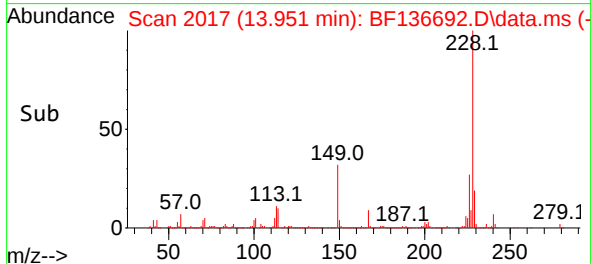
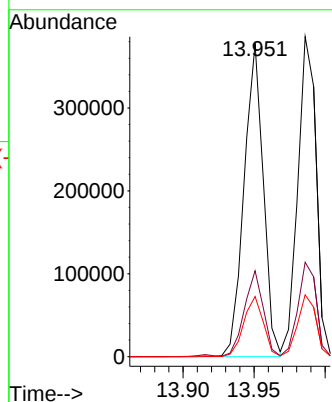
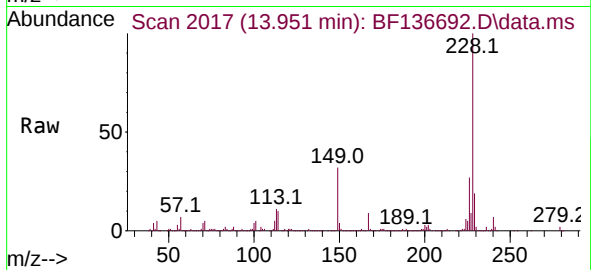
Tgt Ion:228 Resp: 356313

Ion Ratio Lower Upper

228 100

226 27.4 21.4 32.0

229 19.2 14.9 22.3



#82

3,3'-Dichlorobenzidine

Concen: 43.450 ng

RT: 13.915 min Scan# 2011

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

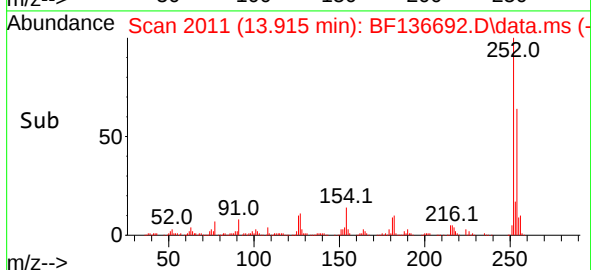
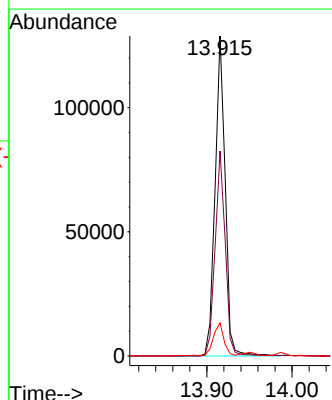
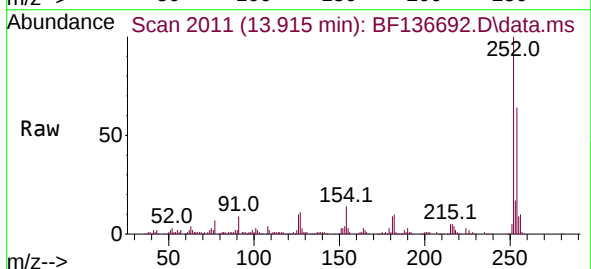
Tgt Ion:252 Resp: 106690

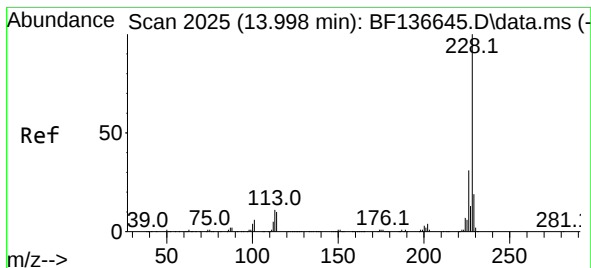
Ion Ratio Lower Upper

252 100

254 64.1 52.2 78.4

126 10.3 8.0 12.0





#83

Chrysene

Concen: 41.123 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

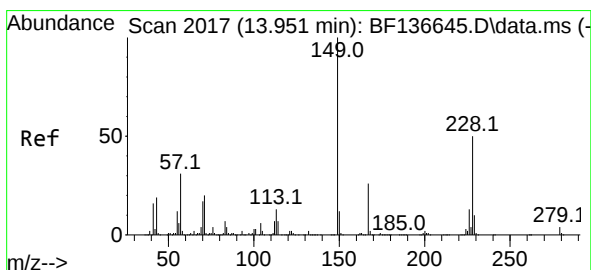
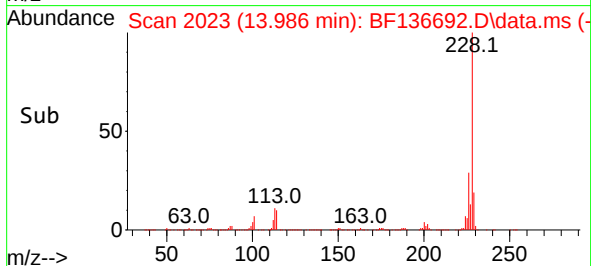
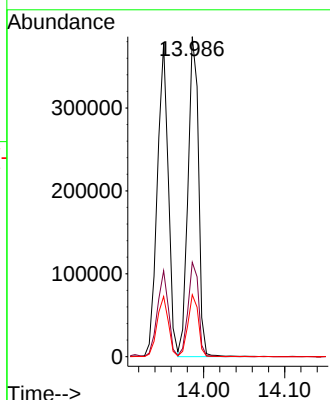
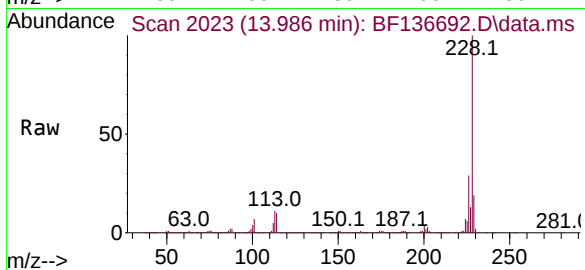
Tgt Ion:228 Resp: 347702

Ion Ratio Lower Upper

228 100

226 29.5 24.7 37.1

229 19.3 15.4 23.0



#84

Bis(2-ethylhexyl)phthalate

Concen: 41.699 ng

RT: 13.945 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

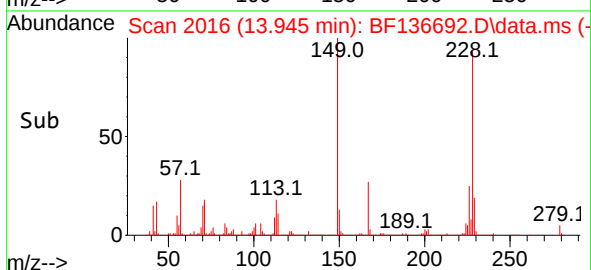
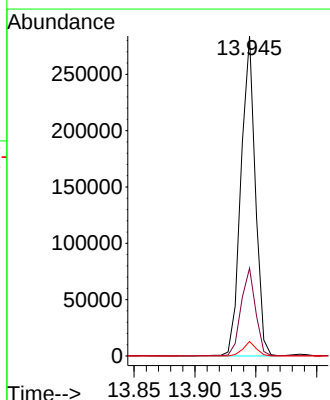
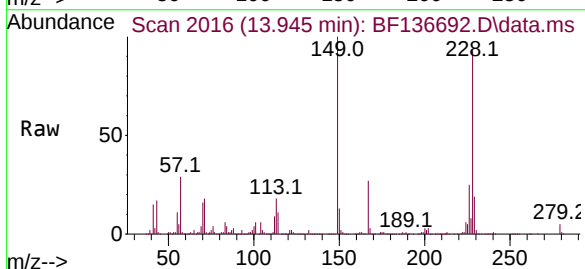
Tgt Ion:149 Resp: 233347

Ion Ratio Lower Upper

149 100

167 27.5 20.9 31.3

279 4.6 2.9 4.3#





#85

Di-n-octyl phthalate

Concen: 48.252 ng

RT: 14.562 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

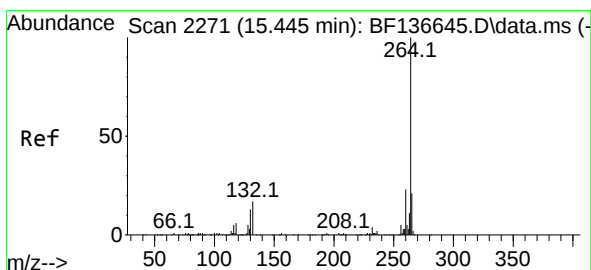
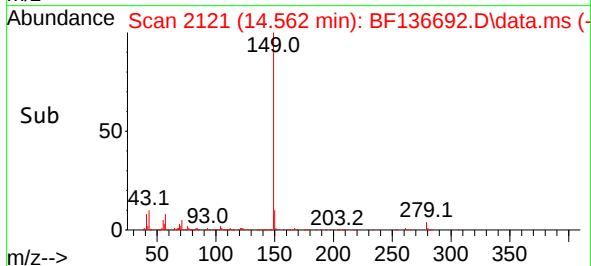
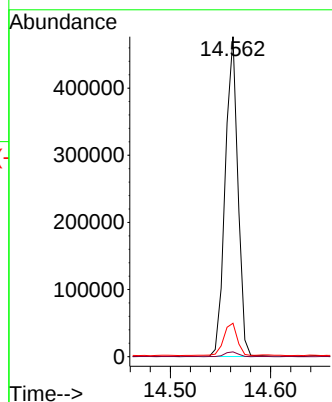
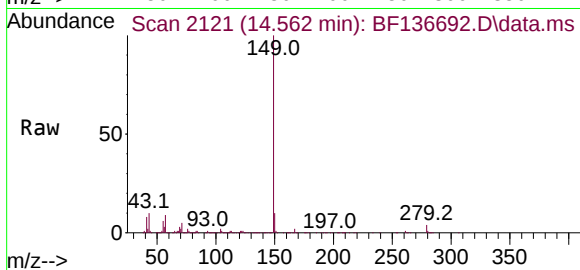
Tgt Ion:149 Resp: 417680

Ion Ratio Lower Upper

149 100

167 1.7 1.2 1.8

43 11.0 8.9 13.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2269

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

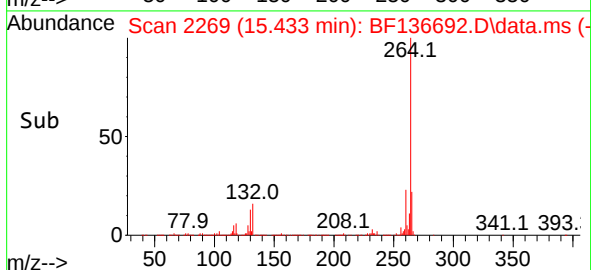
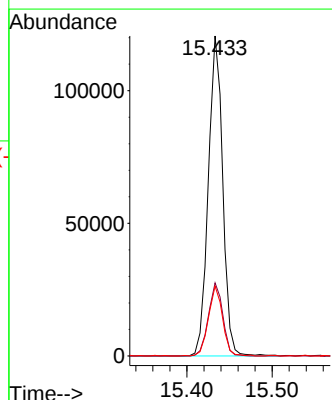
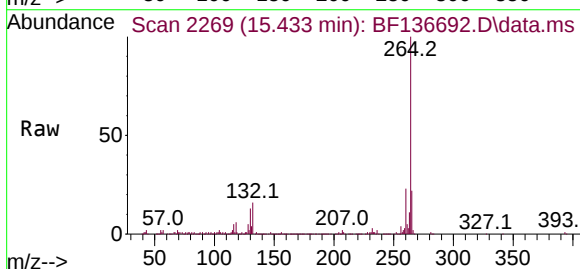
Tgt Ion:264 Resp: 142018

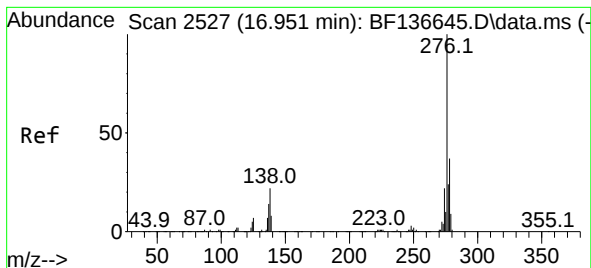
Ion Ratio Lower Upper

264 100

260 22.8 18.3 27.5

265 21.8 17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 34.775 ng

RT: 16.933 min Scan# 2196

Delta R.T. -0.018 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

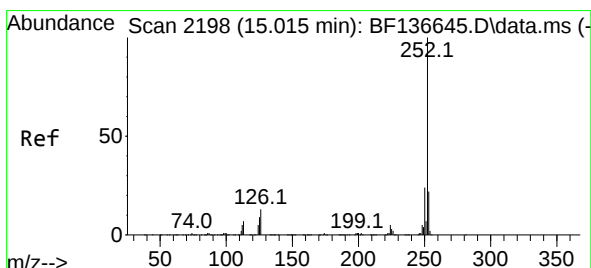
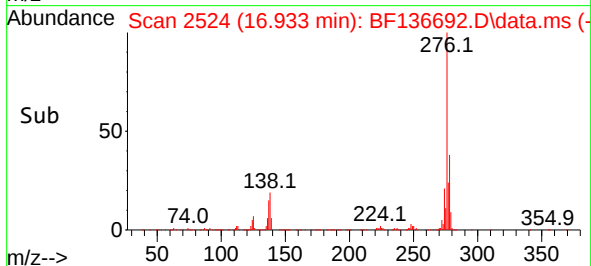
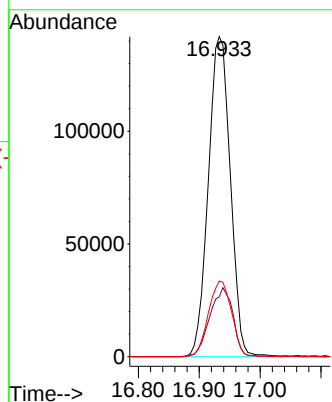
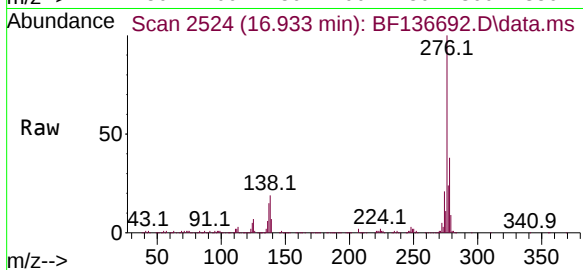
Tgt Ion:276 Resp: 356583

Ion Ratio Lower Upper

276 100

138 22.7 18.7 28.1

277 24.9 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 42.441 ng

RT: 15.004 min Scan# 2196

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

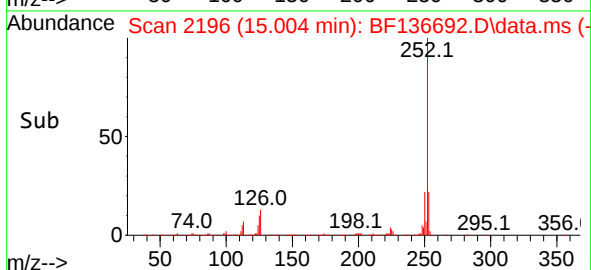
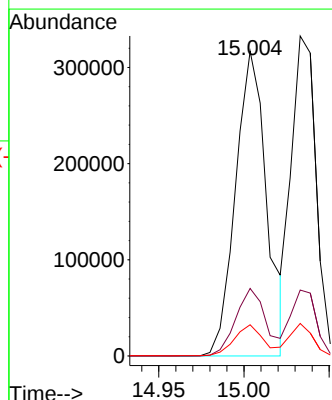
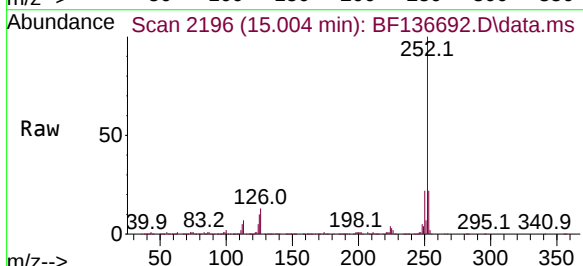
Tgt Ion:252 Resp: 402574

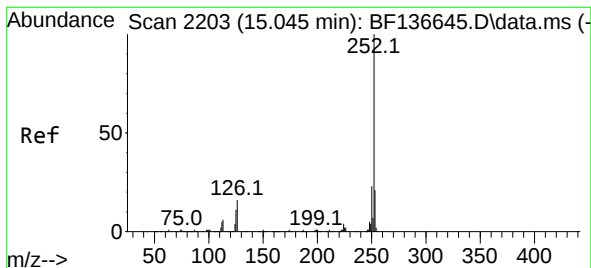
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

125 10.2 7.4 11.2





#89

Benzo(k)fluoranthene

Concen: 37.373 ng

RT: 15.033 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

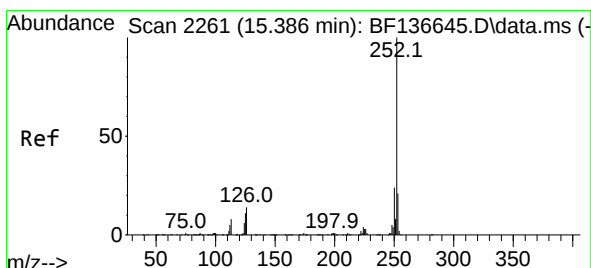
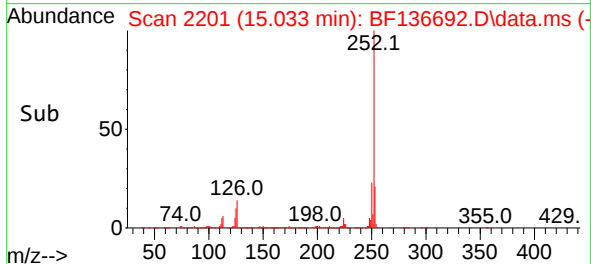
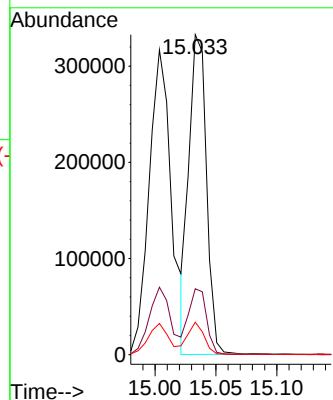
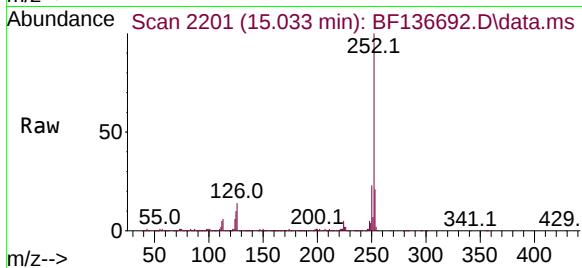
Tgt Ion:252 Resp: 334976

Ion Ratio Lower Upper

252 100

253 20.6 17.0 25.6

125 10.1 8.2 12.4



#90

Benzo(a)pyrene

Concen: 41.343 ng

RT: 15.374 min Scan# 2259

Delta R.T. -0.012 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

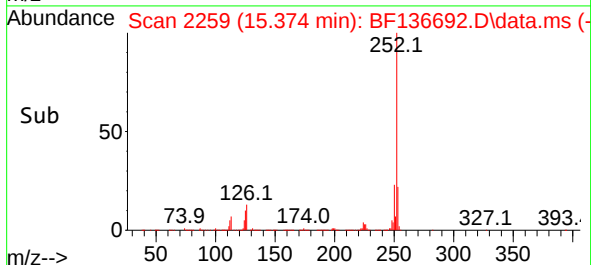
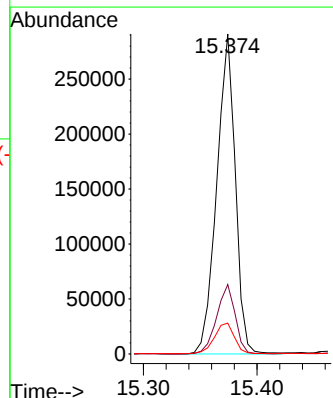
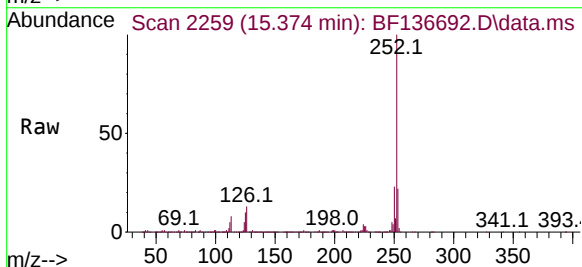
Tgt Ion:252 Resp: 331025

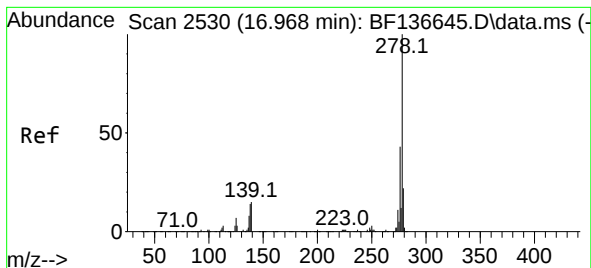
Ion Ratio Lower Upper

252 100

253 21.7 17.0 25.6

125 9.7 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 36.119 ng

RT: 16.951 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Instrument :

BNA\_F

ClientSampleId :

SOIL-COMP-2MSD

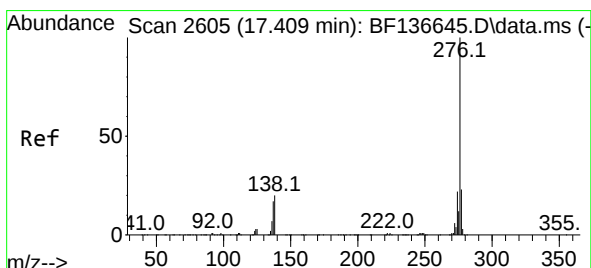
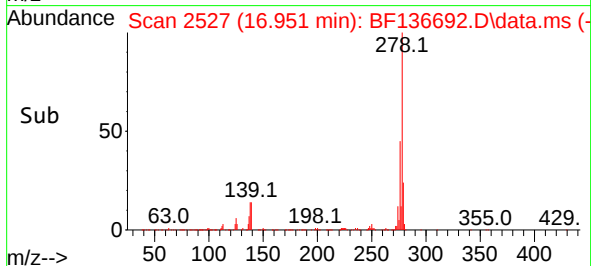
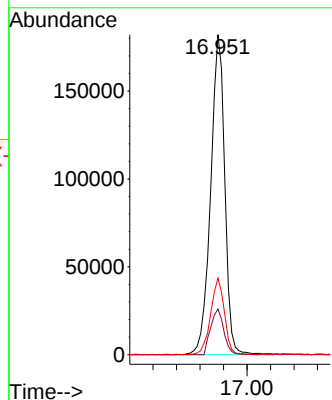
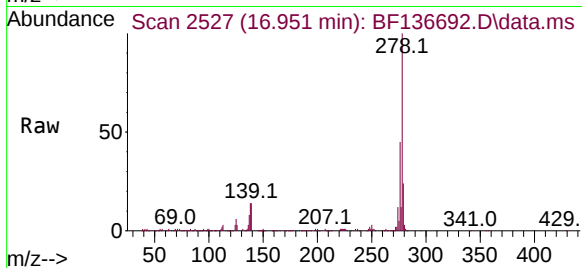
Tgt Ion:278 Resp: 303841

Ion Ratio Lower Upper

278 100

139 14.2 12.2 18.4

279 24.0 17.8 26.6



#92

Benzo(g,h,i)perylene

Concen: 30.709 ng

RT: 17.386 min Scan# 2601

Delta R.T. -0.024 min

Lab File: BF136692.D

Acq: 22 Dec 2023 18:40

Tgt Ion:276 Resp: 264584

Ion Ratio Lower Upper

276 100

277 24.1 18.3 27.5

138 20.7 15.6 23.4

