

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082824\  
 Data File : BG062594.D  
 Acq On : 28 Aug 2024 13:53  
 Operator : MA/JU  
 Sample : P3726-02MS  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-SOIL-PILEMS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
 Supervised By :mohammad ahmed 08/30/2024

Quant Time: Aug 28 14:54:47 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082724.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 28 00:59:59 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.933  | 152  | 82966    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.724 | 136  | 330888   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.555 | 164  | 227021   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.298 | 188  | 557169   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.546 | 240  | 526172   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.625 | 264  | 617742   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.524  | 112  | 708036   | 153.095 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.104  | 99   | 885842   | 134.472 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.090  | 82   | 487158   | 97.710  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.047 | 330  | 435567   | 173.687 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.180 | 172  | 1250292  | 90.558  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.919 | 244  | 2492848  | 99.054  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.444  | 88   | 76104    | 34.544  | ng    | # 59     |
| 3) Pyridine                   | 3.844  | 79   | 167644   | 27.958  | ng    | 92       |
| 4) n-Nitrosodimethylamine     | 3.744  | 42   | 125344   | 39.248  | ng    | 88       |
| 6) Aniline                    | 7.263  | 93   | 133122   | 21.410  | ng    | 97       |
| 8) 2-Chlorophenol             | 7.498  | 128  | 248279   | 49.829  | ng    | 97       |
| 9) Benzaldehyde               | 7.069  | 77   | 51447m   | 12.371  | ng    |          |
| 10) Phenol                    | 7.134  | 94   | 313151   | 45.803  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.357  | 93   | 237720   | 42.760  | ng    | 97       |
| 12) 1,3-Dichlorobenzene       | 7.821  | 146  | 224638   | 38.502  | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.968  | 146  | 228861   | 38.496  | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.285  | 146  | 217902   | 37.457  | ng    | 99       |
| 15) Benzyl Alcohol            | 8.168  | 79   | 237107   | 51.700  | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.450  | 45   | 406470   | 38.493  | ng    | 99       |
| 17) 2-Methylphenol            | 8.374  | 107  | 209220   | 45.815  | ng    | 97       |
| 18) Hexachloroethane          | 9.014  | 117  | 75008    | 37.815  | ng    | 93       |
| 19) n-Nitroso-di-n-propyla... | 8.738  | 70   | 196585   | 44.560  | ng    | 91       |
| 20) 3+4-Methylphenols         | 8.703  | 107  | 287256   | 46.001  | ng    | 99       |
| 22) Acetophenone              | 8.750  | 105  | 361638   | 43.797  | ng    | 99       |
| 24) Nitrobenzene              | 9.131  | 77   | 244493   | 45.284  | ng    | 99       |
| 25) Isophorone                | 9.654  | 82   | 553442   | 45.762  | ng    | 99       |
| 26) 2-Nitrophenol             | 9.837  | 139  | 97381    | 52.692  | ng    | 93       |
| 27) 2,4-Dimethylphenol        | 9.901  | 122  | 204879   | 64.822  | ng    | 96       |
| 28) bis(2-Chloroethoxy)met... | 10.130 | 93   | 318681   | 45.460  | ng    | 100      |
| 29) 2,4-Dichlorophenol        | 10.371 | 162  | 248354   | 53.076  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.589 | 180  | 241297   | 42.214  | ng    | 98       |
| 31) Naphthalene               | 10.777 | 128  | 706670   | 42.787  | ng    | 99       |
| 32) Benzoic acid              | 10.019 | 122  | 86680m   | 33.153  | ng    |          |
| 33) 4-Chloroaniline           | 10.882 | 127  | 29212    | 4.869   | ng    | 96       |
| 34) Hexachlorobutadiene       | 11.065 | 225  | 154628   | 41.465  | ng    | 96       |
| 35) Caprolactam               | 11.658 | 113  | 66462m   | 52.711  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 12.010 | 107  | 257011   | 50.692  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 12.381 | 142  | 486742   | 43.740  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 12.598 | 142  | 458848   | 41.209  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 12.751 | 216  | 294622   | 45.565  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.733 | 237  | 289464   | 178.055 | ng    | 97       |
| 43) 2,4,6-Trichlorophenol     | 12.992 | 196  | 209683   | 56.659  | ng    | 97       |

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Instrument :  
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Manual Integrations  
 APPROVED

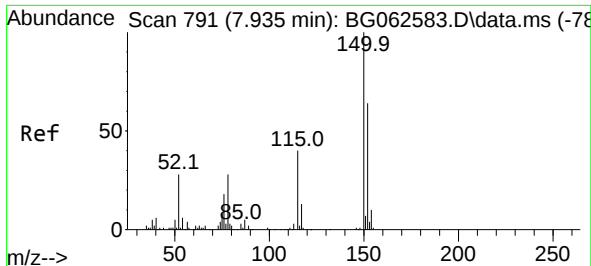
Reviewed By :Jagrut Upadhyay 08/29/2024  
 Supervised By :mohammad ahmed 08/30/2024

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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.062 | 196  | 233207   | 53.471  | ng    | 97       |
| 46) 1,1'-Biphenyl             | 13.391 | 154  | 675437   | 44.467  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 13.432 | 162  | 548347   | 45.230  | ng    | 99       |
| 48) 2-Nitroaniline            | 13.632 | 65   | 146783   | 56.465  | ng    | 99       |
| 49) Acenaphthylene            | 14.278 | 152  | 920684   | 49.815  | ng    | 99       |
| 50) Dimethylphthalate         | 14.014 | 163  | 788882   | 53.476  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.132 | 165  | 131826   | 46.191  | ng    | 92       |
| 52) Acenaphthene              | 14.619 | 154  | 542860   | 47.608  | ng    | 98       |
| 53) 3-Nitroaniline            | 14.461 | 138  | 46200    | 18.862  | ng    | 90       |
| 54) 2,4-Dinitrophenol         | 14.666 | 184  | 137169   | 102.193 | ng    | 96       |
| 55) Dibenzofuran              | 14.954 | 168  | 951424   | 48.663  | ng    | 99       |
| 56) 4-Nitrophenol             | 14.778 | 139  | 256137   | 110.674 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 14.919 | 165  | 196612   | 58.329  | ng    | # 93     |
| 58) Fluorene                  | 15.606 | 166  | 729971   | 47.544  | ng    | 97       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.183 | 232  | 233749   | 58.874  | ng    | 98       |
| 60) Diethylphthalate          | 15.377 | 149  | 800220   | 56.604  | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 15.594 | 204  | 399183   | 48.924  | ng    | 97       |
| 62) 4-Nitroaniline            | 15.624 | 138  | 152996   | 56.287  | ng    | 95       |
| 63) Azobenzene                | 15.888 | 77   | 753194   | 46.886  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.683 | 198  | 108011   | 57.303  | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 15.812 | 169  | 674203   | 49.819  | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.488 | 248  | 270615   | 50.459  | ng    | 97       |
| 68) Hexachlorobenzene         | 16.611 | 284  | 305403   | 49.282  | ng    | 94       |
| 69) Atrazine                  | 16.764 | 200  | 273688   | 74.349  | ng    | 96       |
| 70) Pentachlorophenol         | 16.952 | 266  | 403592   | 108.667 | ng    | 99       |
| 71) Phenanthrene              | 17.340 | 178  | 1302458  | 48.542  | ng    | 99       |
| 72) Anthracene                | 17.433 | 178  | 1330058  | 50.664  | ng    | 100      |
| 73) Carbazole                 | 17.698 | 167  | 1178138  | 48.371  | ng    | 99       |
| 74) Di-n-butylphthalate       | 18.262 | 149  | 1365465  | 64.081  | ng    | 99       |
| 75) Fluoranthene              | 19.355 | 202  | 1547914  | 46.083  | ng    | 99       |
| 77) Benzidine                 | 19.537 | 184  | 138986m  | 19.373  | ng    |          |
| 78) Pyrene                    | 19.713 | 202  | 1611401  | 48.168  | ng    | 100      |
| 80) Butylbenzylphthalate      | 20.606 | 149  | 488609   | 63.101  | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.529 | 228  | 1634210  | 48.767  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 21.446 | 252  | 269579   | 30.413  | ng    | 98       |
| 83) Chrysene                  | 21.593 | 228  | 1569027  | 47.850  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.446 | 149  | 754694   | 71.269  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 22.610 | 149  | 1355538  | 67.798  | ng    | # 92     |
| 87) Indeno(1,2,3-cd)pyrene    | 28.109 | 276  | 2033891  | 52.211  | ng    | # 96     |
| 88) Benzo(b)fluoranthene      | 23.656 | 252  | 1624407  | 46.948  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.720 | 252  | 1671701  | 48.697  | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.484 | 252  | 1579832  | 51.939  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 28.174 | 278  | 1666661  | 51.771  | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 29.196 | 276  | 1544999  | 47.207  | ng    | 96       |

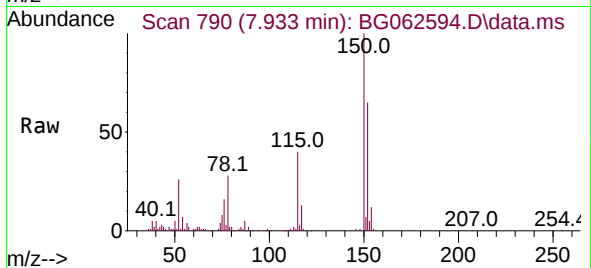
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.933 min Scan# 791  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

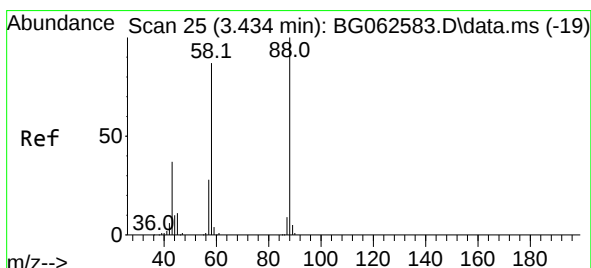
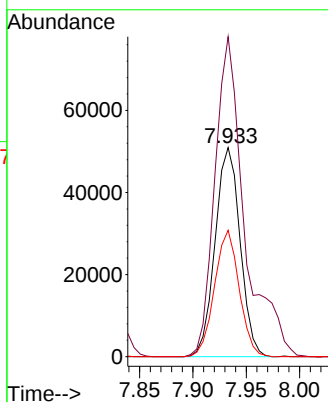
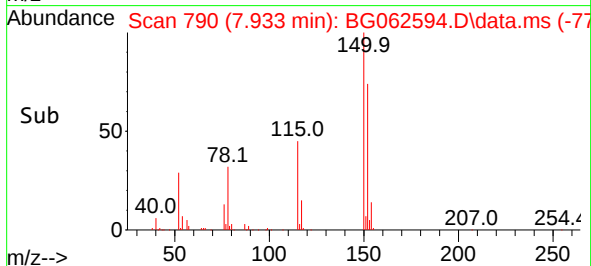
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion: 152 Resp: 82960  
Ion Ratio Lower Upper  
152 100  
150 153.1 125.1 187.7  
115 60.5 50.6 76.0

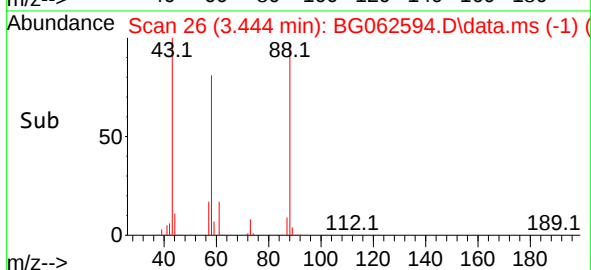
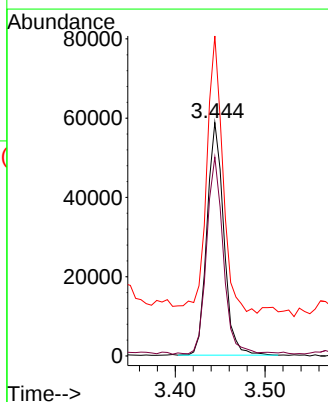
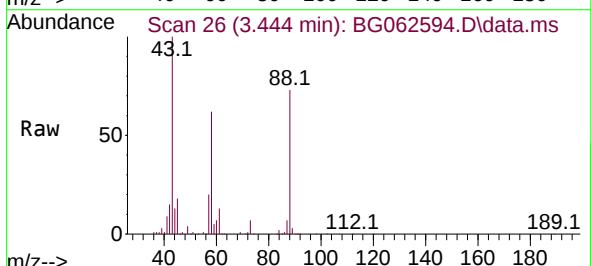
Manual Integrations  
APPROVED

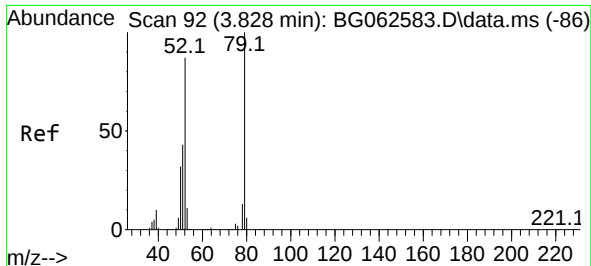
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#2  
1,4-Dioxane  
Concen: 34.544 ng  
RT: 3.444 min Scan# 26  
Delta R.T. 0.010 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

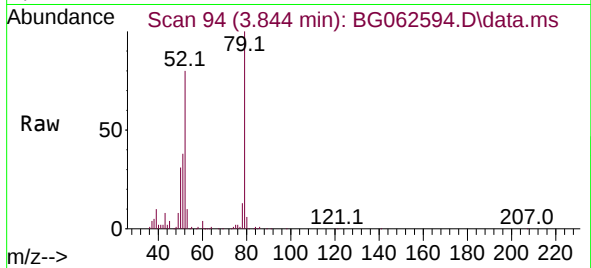
Tgt Ion: 88 Resp: 76104  
Ion Ratio Lower Upper  
88 100  
58 83.0 66.6 99.8  
43 114.5 28.2 42.2#





#3  
Pyridine  
Concen: 27.958 ng  
RT: 3.844 min Scan# 94  
Delta R.T. 0.016 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

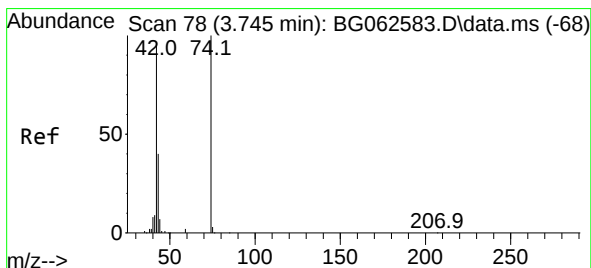
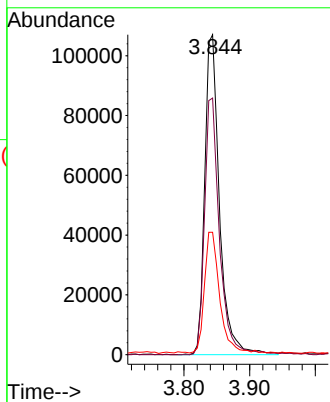
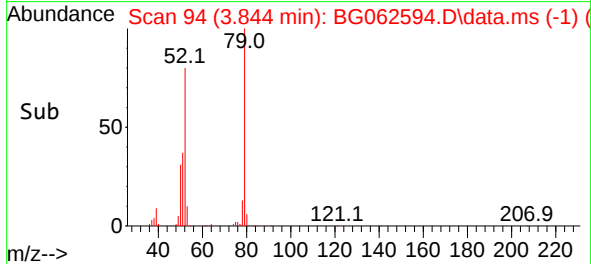
Instrument :  
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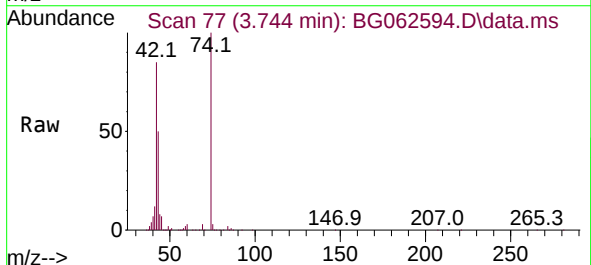
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Ion Ratio Lower Upper  
79 100  
52 80.2 69.7 104.5  
51 38.2 35.6 53.4

Manual Integrations  
APPROVED

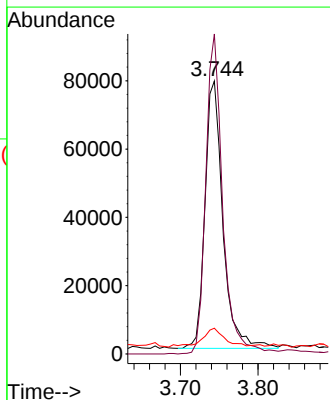
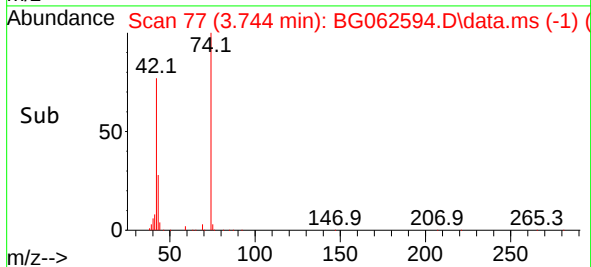
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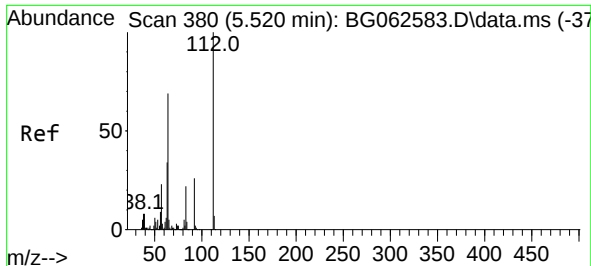


#4  
n-Nitrosodimethylamine  
Concen: 39.248 ng  
RT: 3.744 min Scan# 77  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



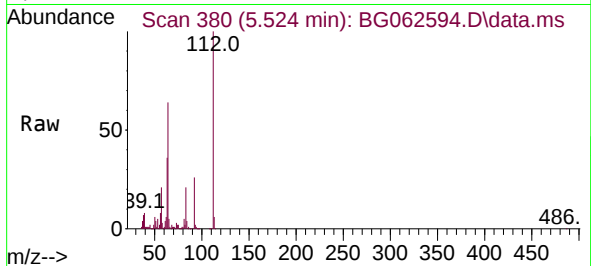
Tgt Ion: 42 Resp: 125344  
Ion Ratio Lower Upper  
42 100  
74 117.3 83.5 125.3  
44 9.4 7.4 11.0





#5  
2-Fluorophenol  
Concen: 153.095 ng  
RT: 5.524 min Scan# 380  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

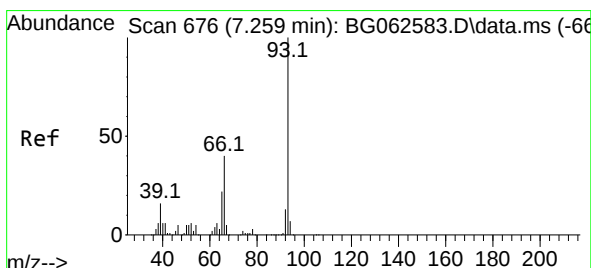
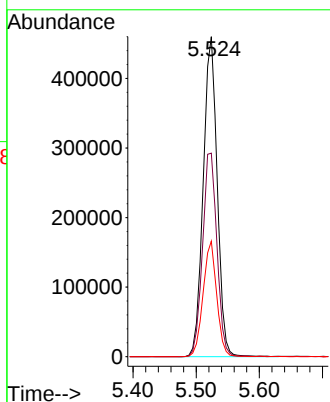
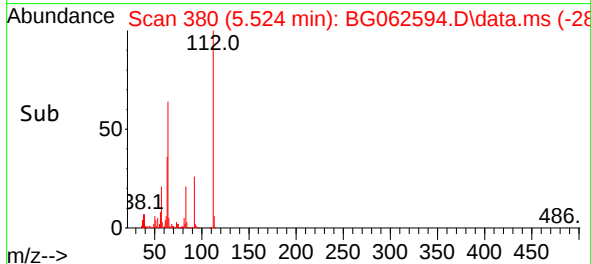
Instrument :  
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Tgt Ion:112 Resp: 708030  
Ion Ratio Lower Upper  
112 100  
64 63.6 55.5 83.3  
63 36.1 27.4 41.2

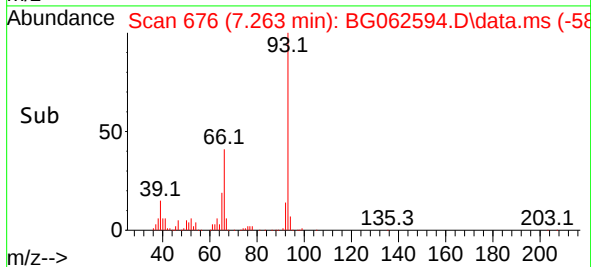
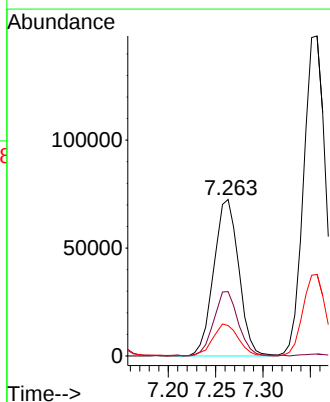
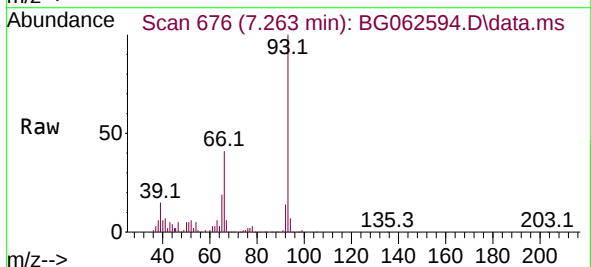
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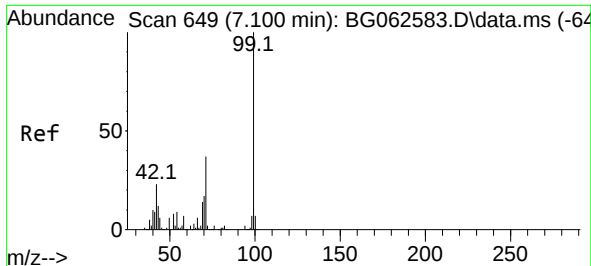
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#6  
Aniline  
Concen: 21.410 ng  
RT: 7.263 min Scan# 676  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

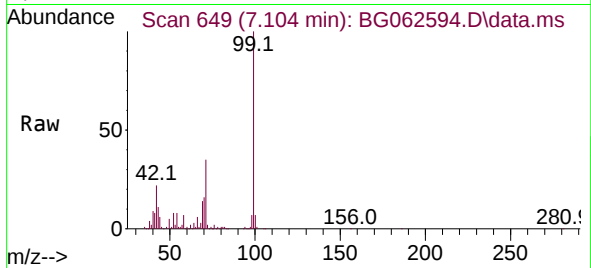
Tgt Ion: 93 Resp: 133122  
Ion Ratio Lower Upper  
93 100  
66 41.1 32.4 48.6  
65 19.5 17.6 26.4





#7  
Phenol-d6  
Concen: 134.472 ng  
RT: 7.104 min Scan# 649  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

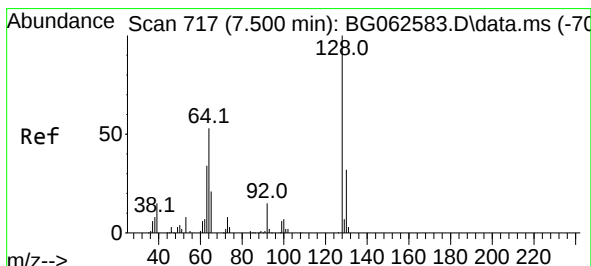
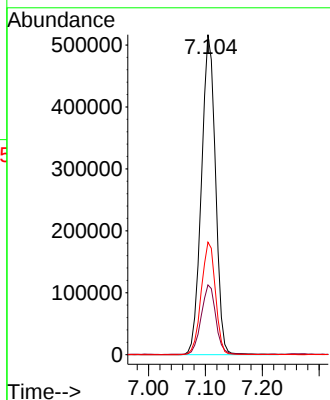
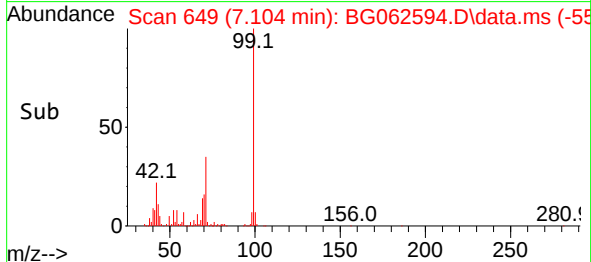
Instrument :  
BNA\_G  
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Tgt Ion: 99 Resp: 88584  
Ion Ratio Lower Upper  
99 100  
42 21.8 18.7 28.1  
71 35.1 29.8 44.6

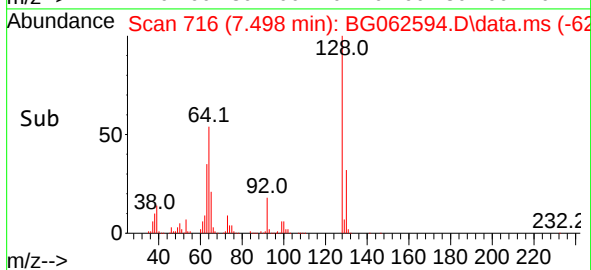
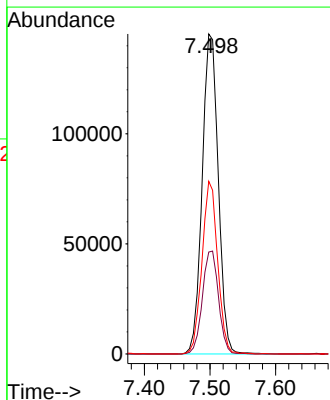
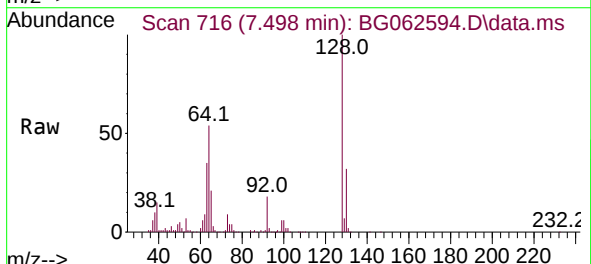
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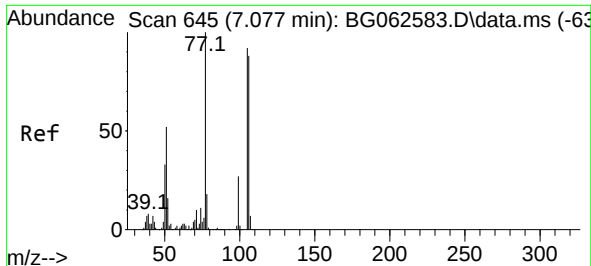
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#8  
2-Chlorophenol  
Concen: 49.829 ng  
RT: 7.498 min Scan# 716  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:128 Resp: 248279  
Ion Ratio Lower Upper  
128 100  
130 31.9 11.6 51.6  
64 54.0 37.5 77.5





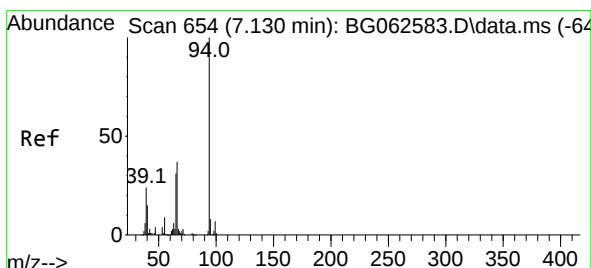
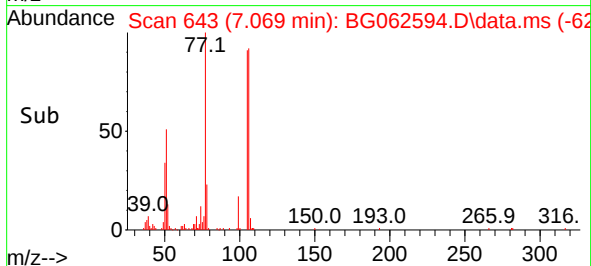
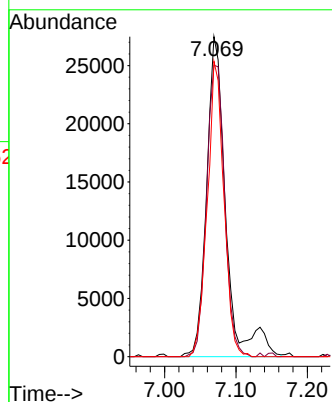
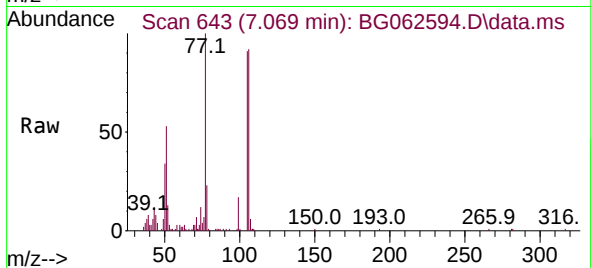
#9  
Benzaldehyde  
Concen: 12.371 ng m  
RT: 7.069 min Scan# 645  
Delta R.T. -0.008 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion: 77 Resp: 5144  
Ion Ratio Lower Upper  
77 100  
105 91.0 72.0 112.0  
106 92.3 67.7 107.7

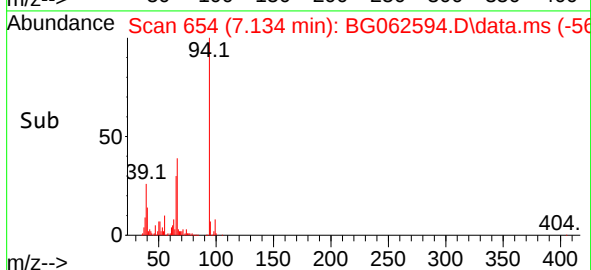
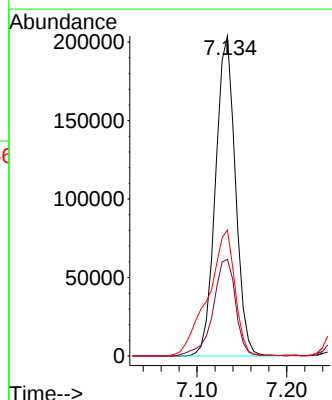
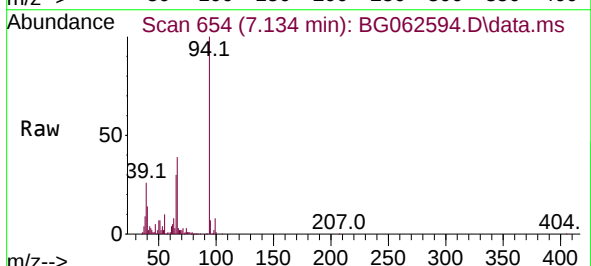
Manual Integrations  
APPROVED

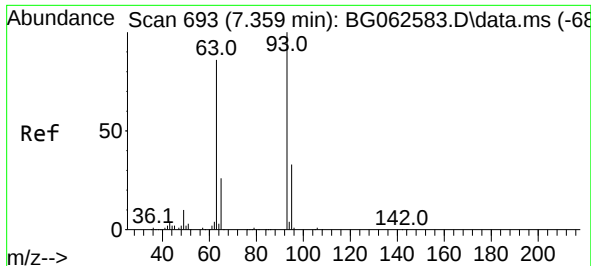
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#10  
Phenol  
Concen: 45.803 ng  
RT: 7.134 min Scan# 654  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

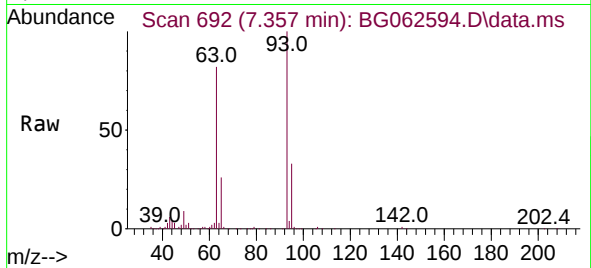
Tgt Ion: 94 Resp: 313151  
Ion Ratio Lower Upper  
94 100  
65 30.2 11.6 51.6  
66 39.4 17.7 57.7





#11  
bis(2-Chloroethyl)ether  
Concen: 42.760 ng  
RT: 7.357 min Scan# 693  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

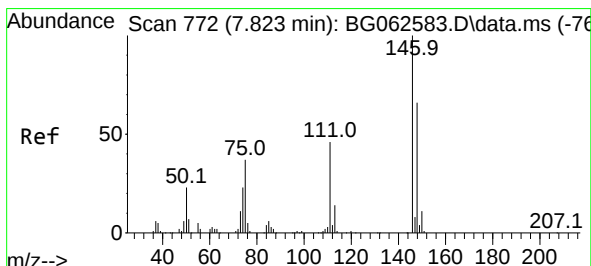
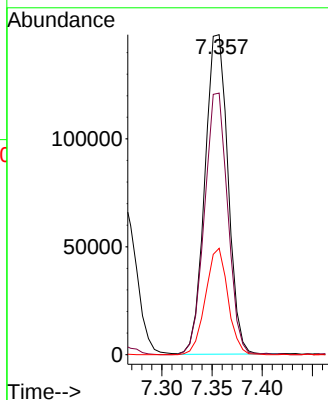
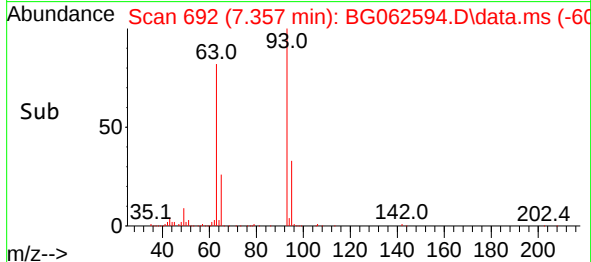
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



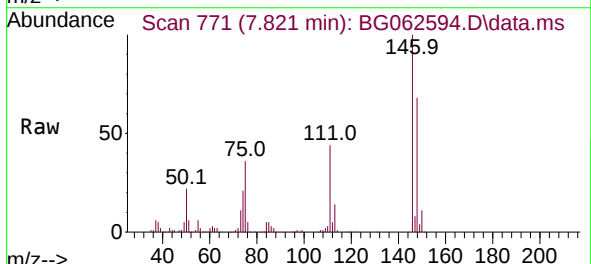
Tgt Ion: 93 Resp: 237720  
Ion Ratio Lower Upper  
93 100  
63 81.8 64.7 104.7  
95 33.2 12.3 52.3

Manual Integrations  
APPROVED

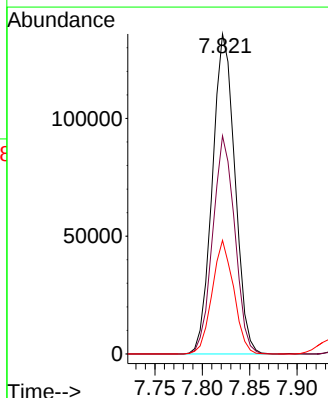
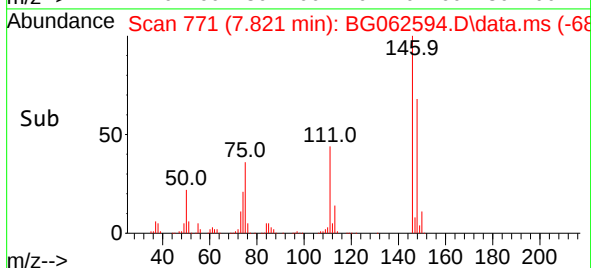
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

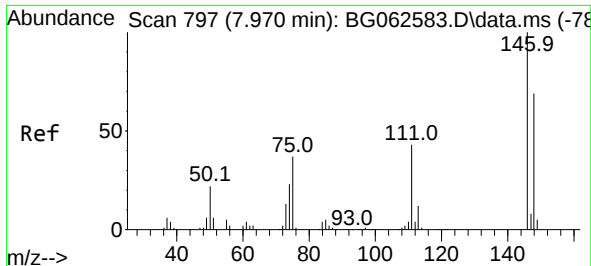


#12  
1,3-Dichlorobenzene  
Concen: 38.502 ng  
RT: 7.821 min Scan# 771  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



Tgt Ion:146 Resp: 224638  
Ion Ratio Lower Upper  
146 100  
148 68.2 52.6 78.8  
75 35.5 29.4 44.0





#13

1,4-Dichlorobenzene

Concen: 38.496 ng

RT: 7.968 min Scan# 797

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:146 Resp: 22886

Ion Ratio Lower Upper

146 100

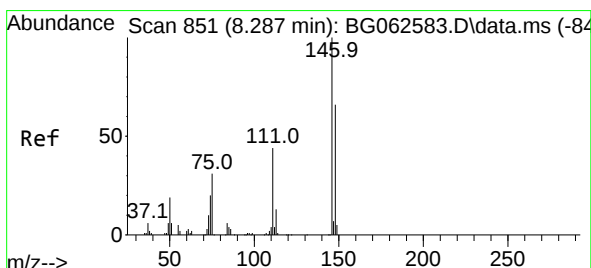
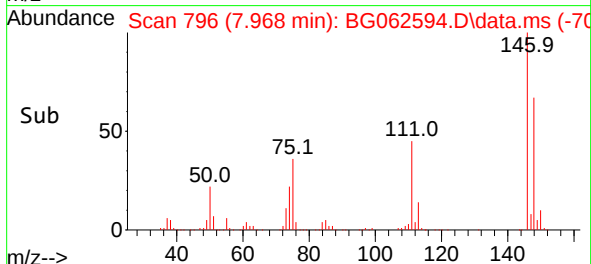
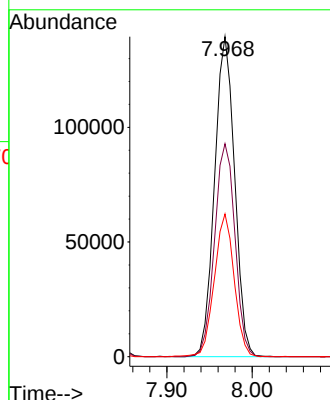
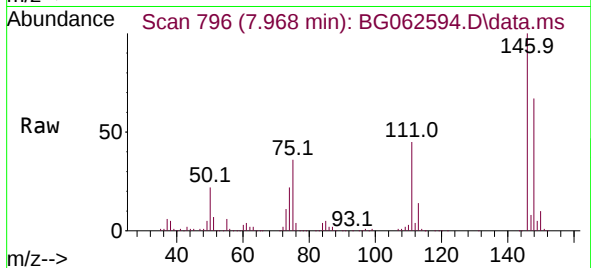
148 66.6 55.0 82.4

111 44.6 34.8 52.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#14

1,2-Dichlorobenzene

Concen: 37.457 ng

RT: 8.285 min Scan# 850

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

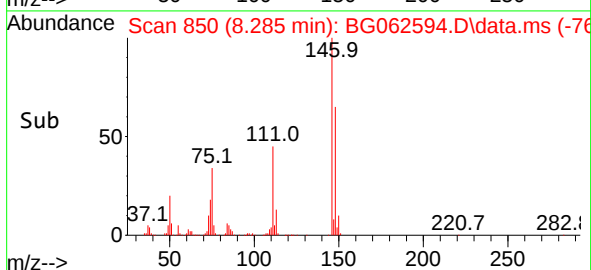
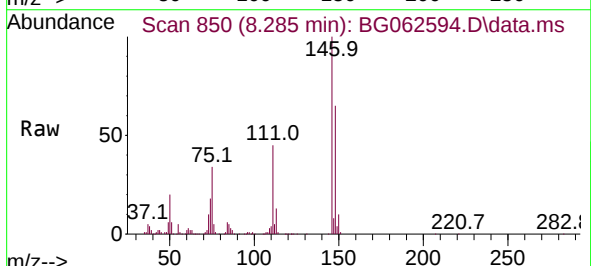
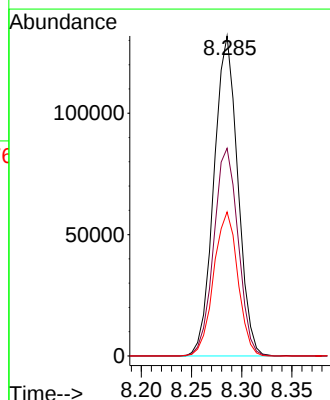
Tgt Ion:146 Resp: 217902

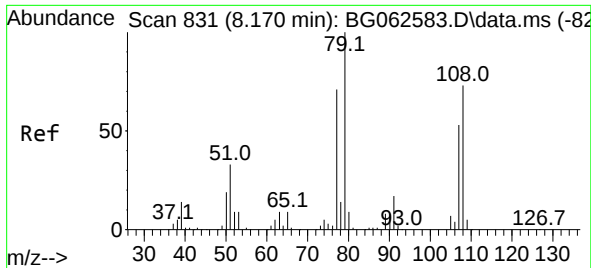
Ion Ratio Lower Upper

146 100

148 64.9 52.6 79.0

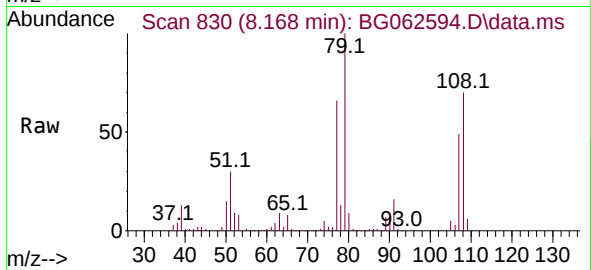
111 45.0 35.6 53.4





#15  
Benzyl Alcohol  
Concen: 51.700 ng  
RT: 8.168 min Scan# 811  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

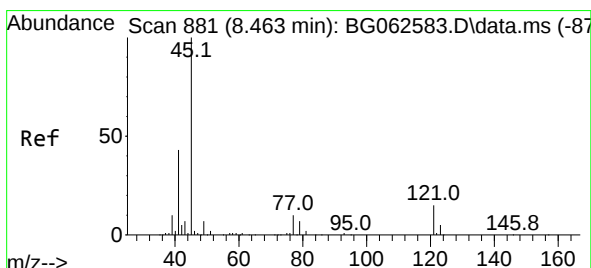
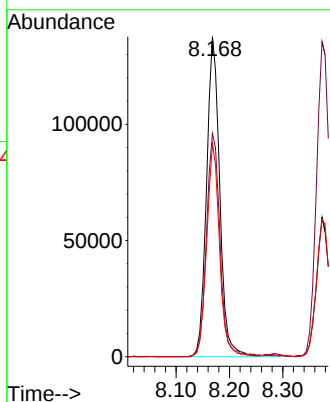
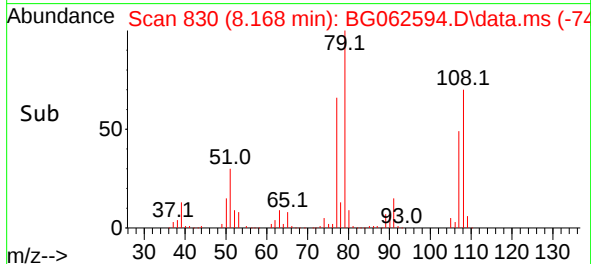
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



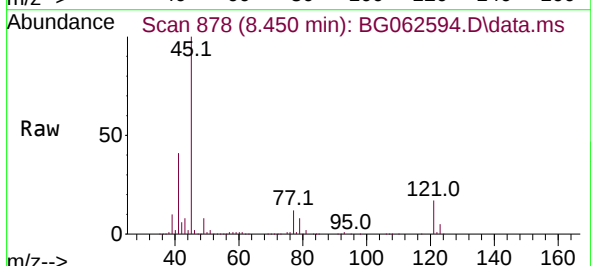
Tgt Ion: 79 Resp: 23710  
Ion Ratio Lower Upper  
79 100  
108 69.8 58.2 87.2  
77 66.5 56.5 84.7

Manual Integrations  
APPROVED

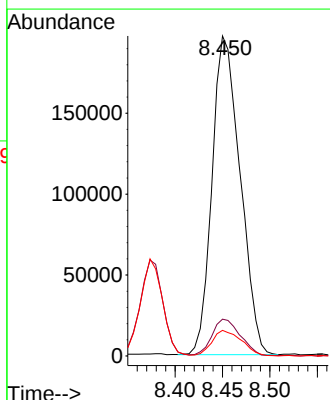
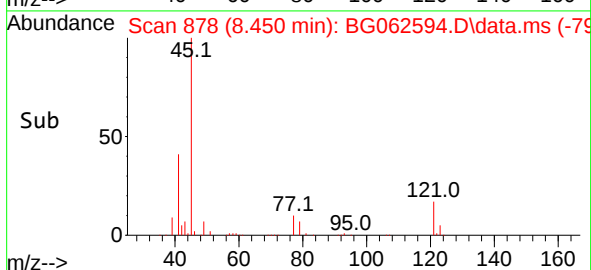
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

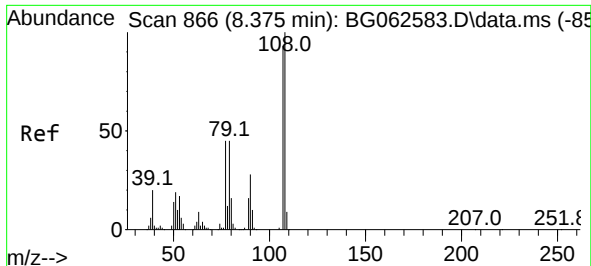


#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 38.493 ng  
RT: 8.450 min Scan# 878  
Delta R.T. -0.013 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



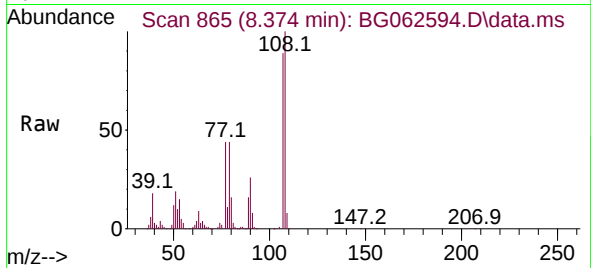
Tgt Ion: 45 Resp: 406470  
Ion Ratio Lower Upper  
45 100  
77 11.5 0.0 31.2  
79 8.0 0.0 28.2





#17  
2-Methylphenol  
Concen: 45.815 ng  
RT: 8.374 min Scan# 80  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

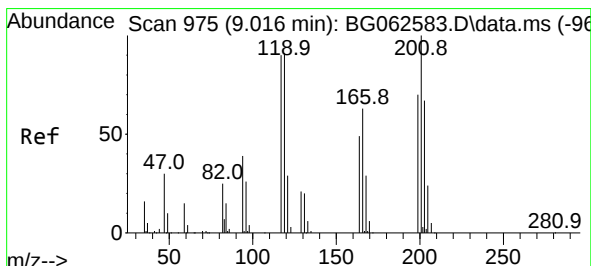
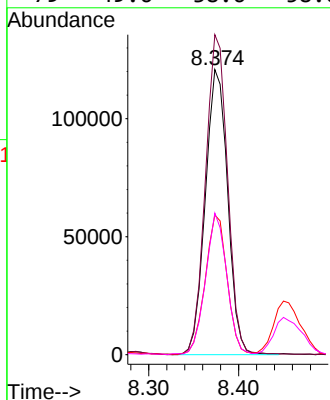
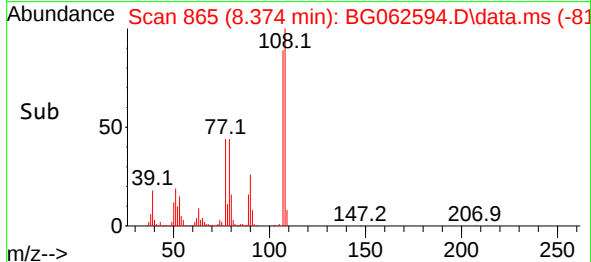
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 209220 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 112.2 | 85.6  | 128.4  |
| 77       | 49.0  | 38.6  | 58.0   |
| 79       | 49.6  | 38.6  | 58.0   |

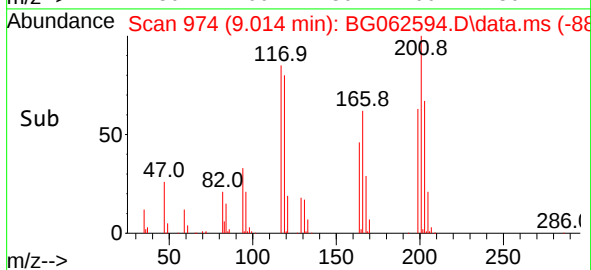
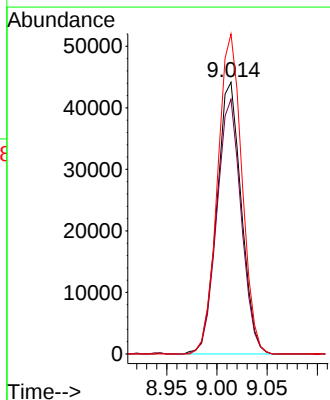
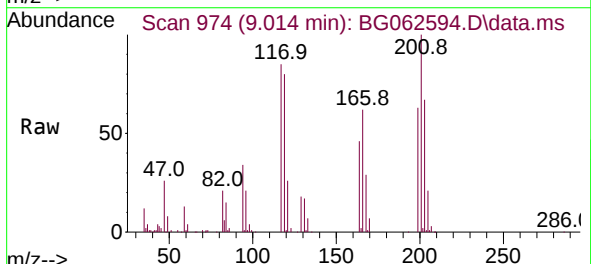
Manual Integrations  
APPROVED

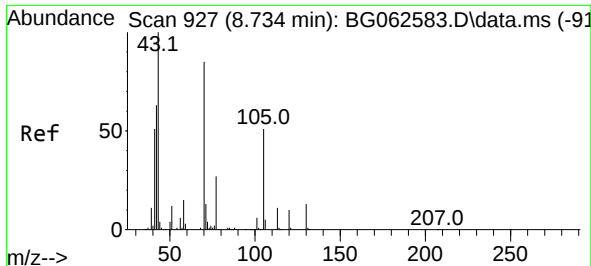
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#18  
Hexachloroethane  
Concen: 37.815 ng  
RT: 9.014 min Scan# 974  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

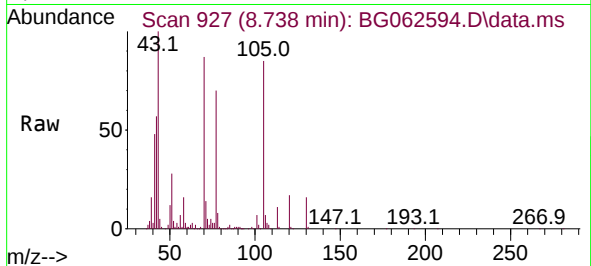
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 75008 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 93.8  | 81.6  | 122.4 |
| 201      | 117.8 | 89.4  | 134.0 |





#19  
n-Nitroso-di-n-propylamine  
Concen: 44.560 ng  
RT: 8.738 min Scan# 91  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

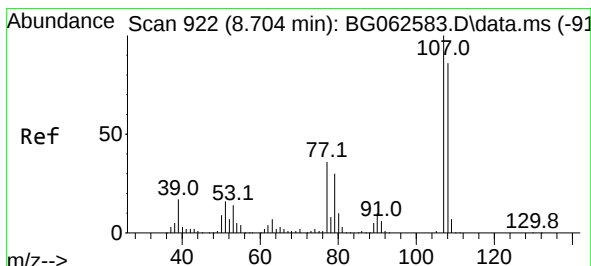
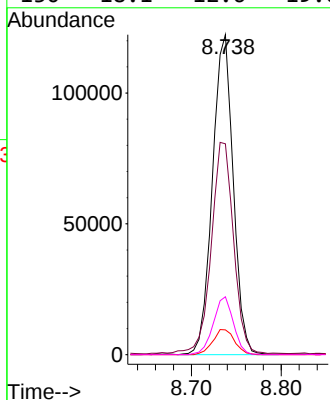
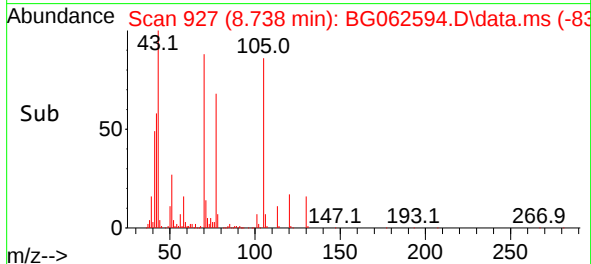
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion: 70 Resp: 19658  
Ion Ratio Lower Upper  
70 100  
42 65.9 60.0 90.0  
101 7.8 6.1 9.1  
130 18.1 12.6 19.0

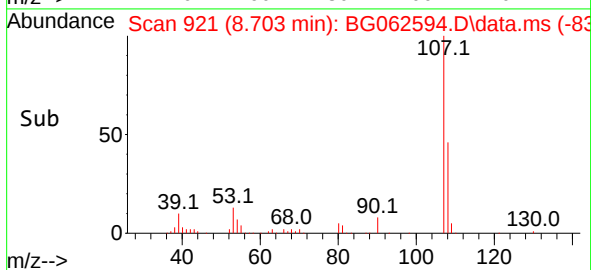
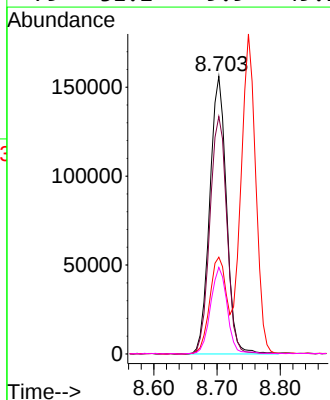
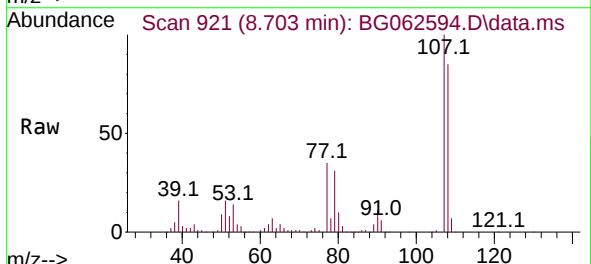
Manual Integrations  
APPROVED

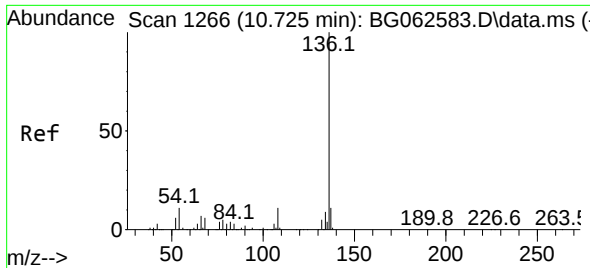
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#20  
3+4-Methylphenols  
Concen: 46.001 ng  
RT: 8.703 min Scan# 921  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

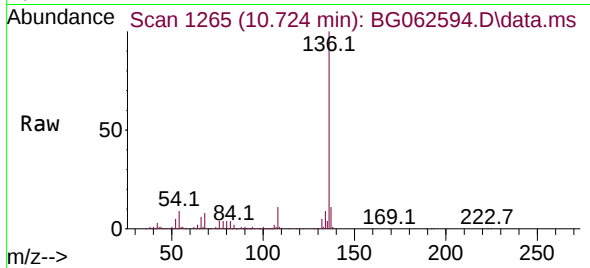
Tgt Ion:107 Resp: 287256  
Ion Ratio Lower Upper  
107 100  
108 85.5 66.0 106.0  
77 34.9 16.1 56.1  
79 31.2 9.9 49.9





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.724 min Scan# 1265  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

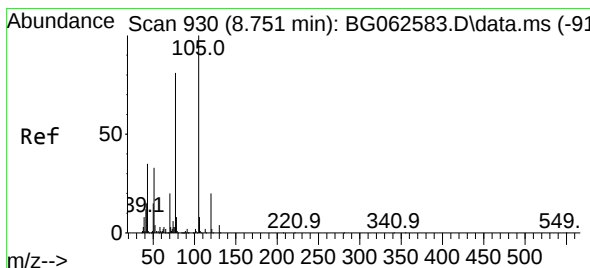
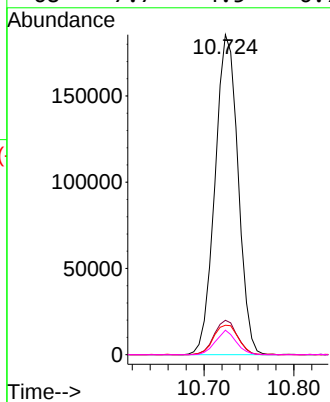
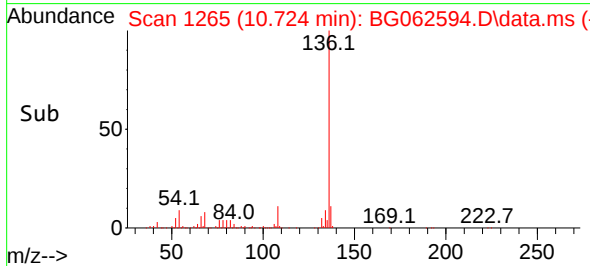
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:136 Resp: 33088  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.8 13.2  
54 9.2 9.0 13.4  
68 7.7 4.5 6.7#

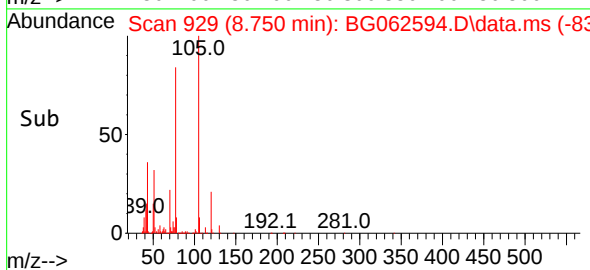
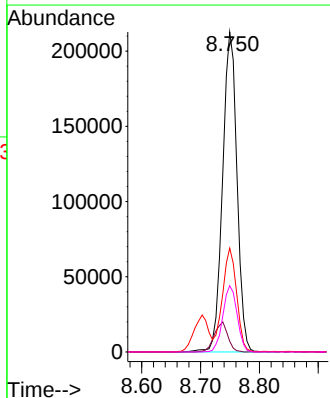
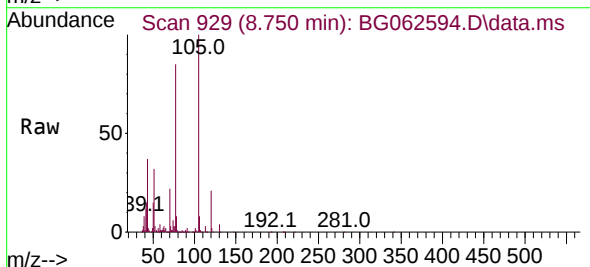
Manual Integrations  
APPROVED

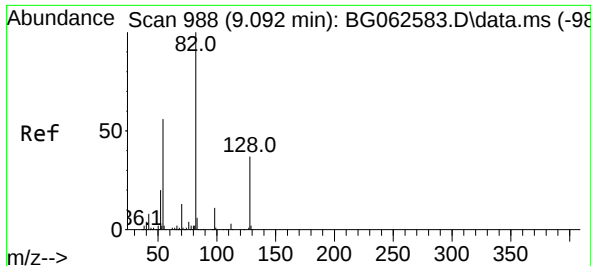
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#22  
Acetophenone  
Concen: 43.797 ng  
RT: 8.750 min Scan# 929  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:105 Resp: 361638  
Ion Ratio Lower Upper  
105 100  
71 3.3 2.5 3.7  
51 32.5 26.6 40.0  
120 20.7 16.2 24.4





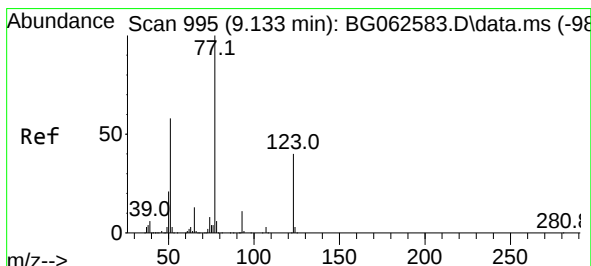
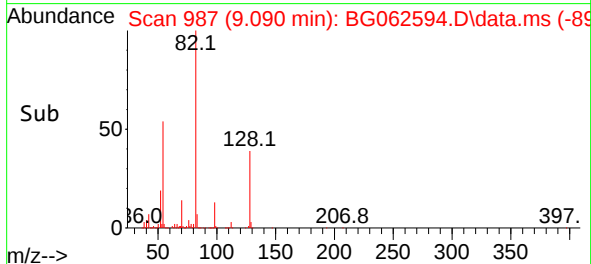
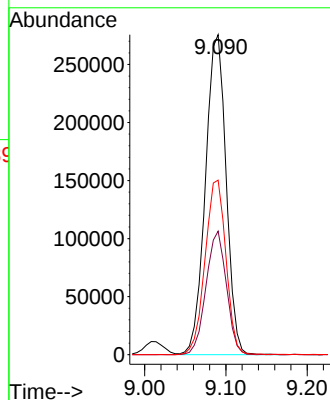
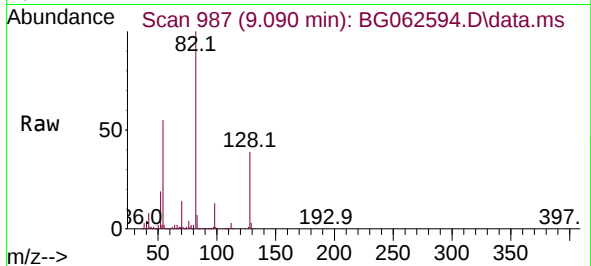
#23  
Nitrobenzene-d5  
Concen: 97.710 ng  
RT: 9.090 min Scan# 90  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion: 82 Resp: 487158  
Ion Ratio Lower Upper  
82 100  
128 38.6 29.7 44.5  
54 54.5 44.4 66.6

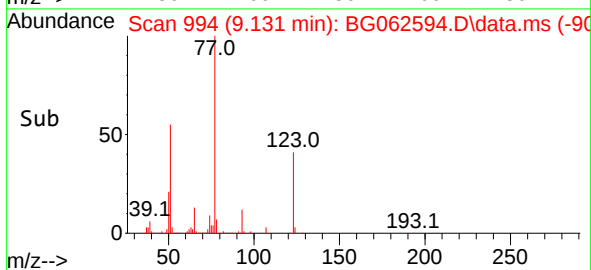
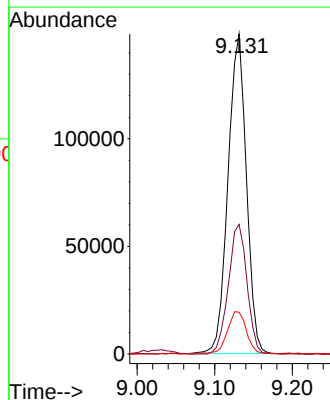
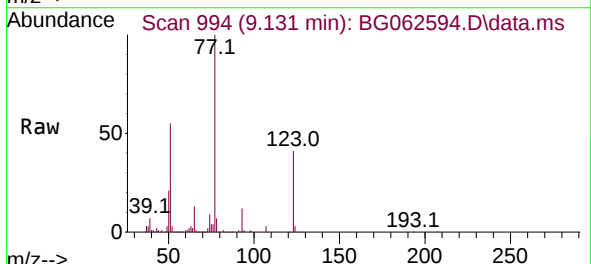
Manual Integrations  
APPROVED

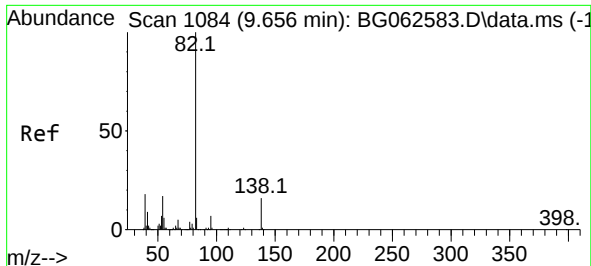
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#24  
Nitrobenzene  
Concen: 45.284 ng  
RT: 9.131 min Scan# 994  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

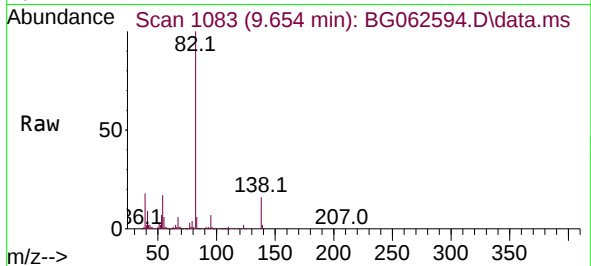
Tgt Ion: 77 Resp: 244493  
Ion Ratio Lower Upper  
77 100  
123 40.5 32.0 48.0  
65 13.1 10.6 15.8





#25  
Isophorone  
Concen: 45.762 ng  
RT: 9.654 min Scan# 1084  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

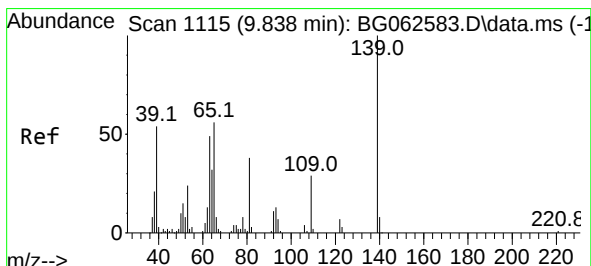
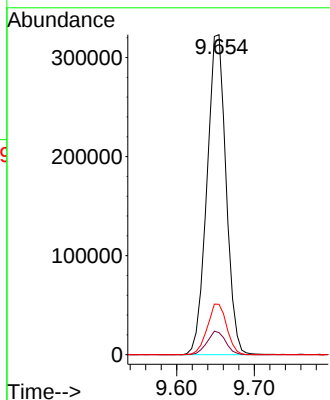
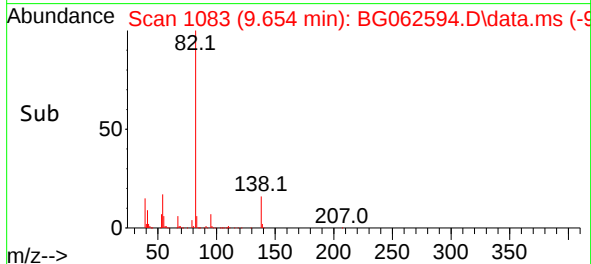
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion: 82 Resp: 55344  
Ion Ratio Lower Upper  
82 100  
95 6.9 5.2 7.8  
138 15.7 13.0 19.4

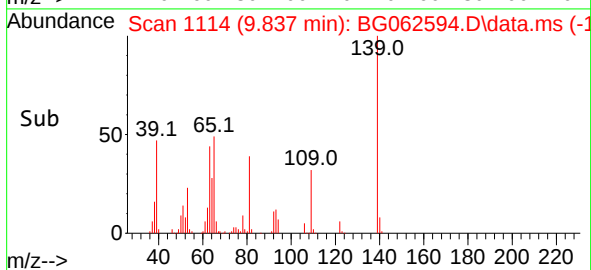
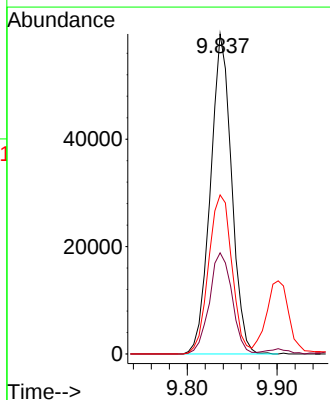
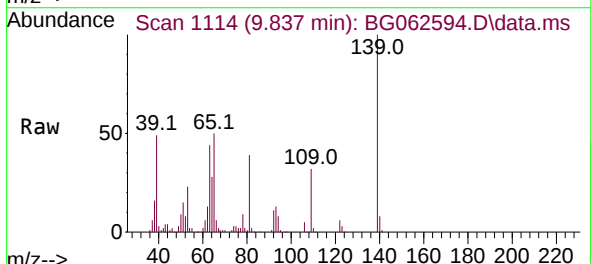
Manual Integrations  
APPROVED

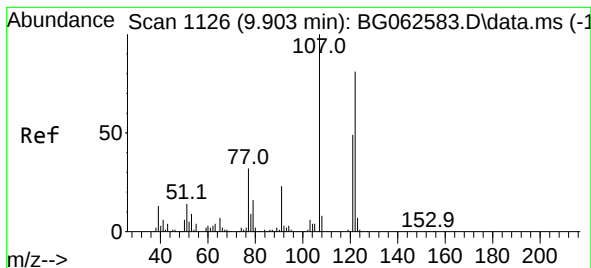
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#26  
2-Nitrophenol  
Concen: 52.692 ng  
RT: 9.837 min Scan# 1114  
Delta R.T. -0.001 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

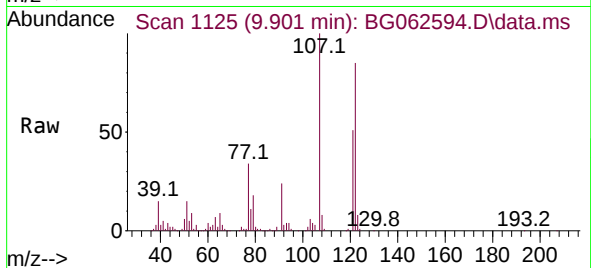
Tgt Ion:139 Resp: 97381  
Ion Ratio Lower Upper  
139 100  
109 31.6 23.1 34.7  
65 49.7 44.6 67.0





#27  
2,4-Dimethylphenol  
Concen: 64.822 ng  
RT: 9.901 min Scan# 1125  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

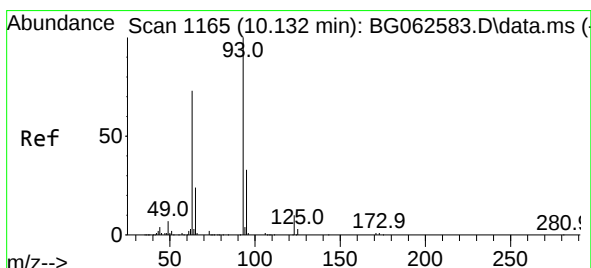
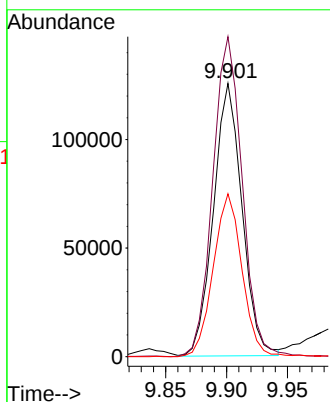
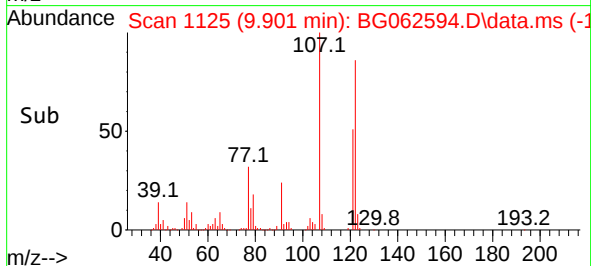
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:122 Resp: 204879  
Ion Ratio Lower Upper  
122 100  
107 117.1 98.0 147.0  
121 59.6 48.2 72.4

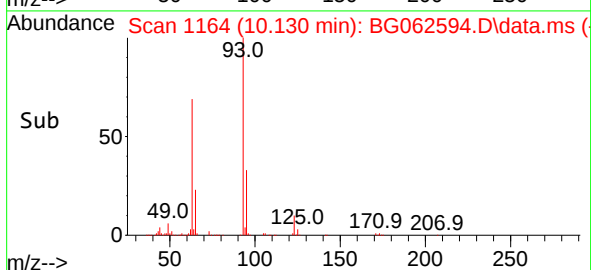
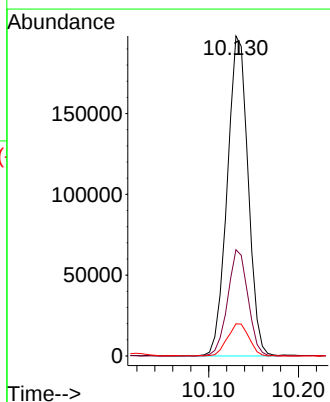
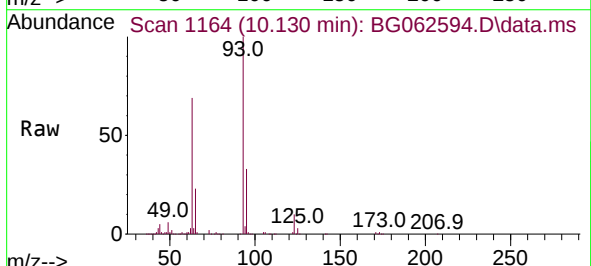
Manual Integrations  
APPROVED

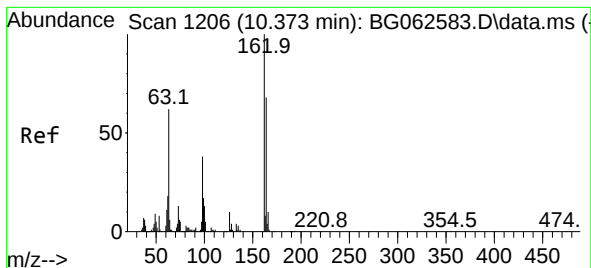
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#28  
bis(2-Chloroethoxy)methane  
Concen: 45.460 ng  
RT: 10.130 min Scan# 1164  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

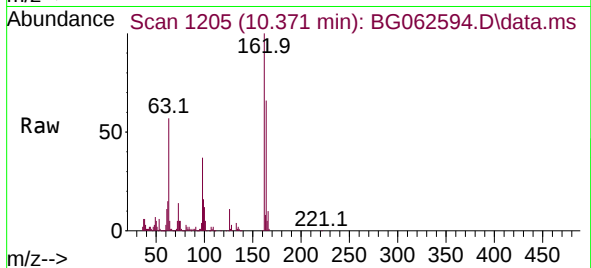
Tgt Ion: 93 Resp: 318681  
Ion Ratio Lower Upper  
93 100  
95 33.2 26.6 39.8  
123 10.0 8.2 12.2





#29  
2,4-Dichlorophenol  
Concen: 53.076 ng  
RT: 10.371 min Scan# 1205  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

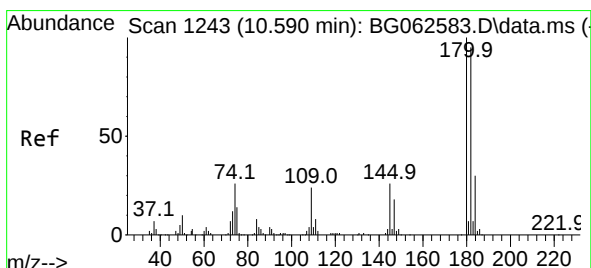
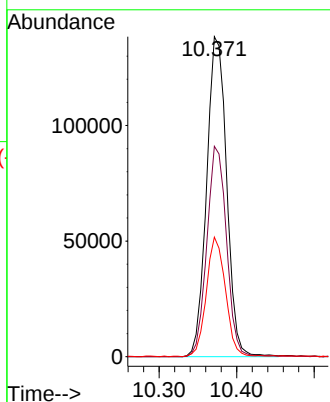
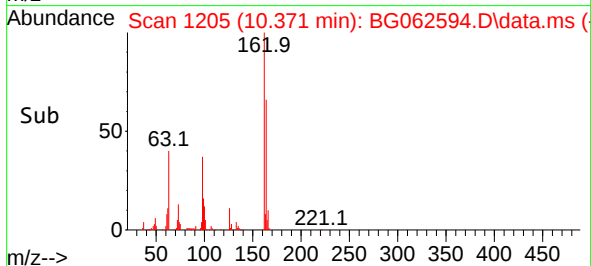
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:162 Resp: 248354  
Ion Ratio Lower Upper  
162 100  
164 65.7 47.5 87.5  
98 37.3 17.6 57.6

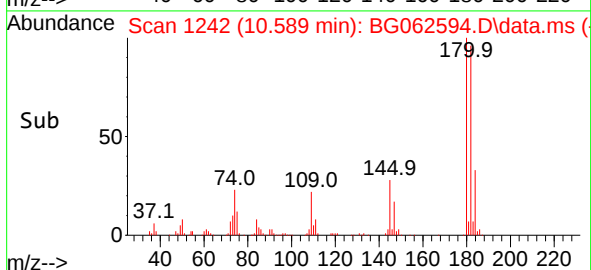
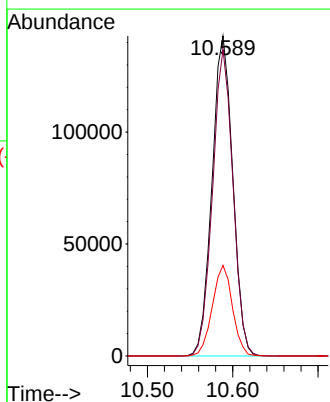
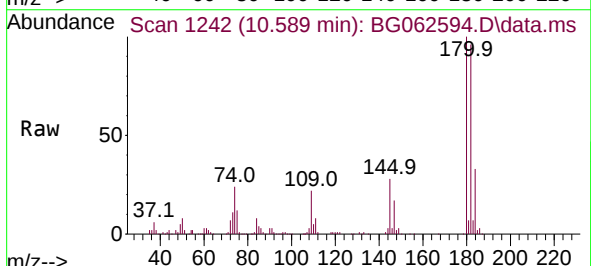
Manual Integrations  
APPROVED

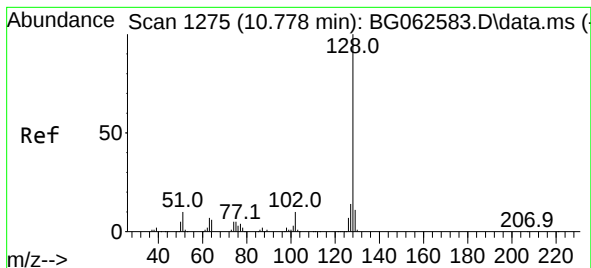
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#30  
1,2,4-Trichlorobenzene  
Concen: 42.214 ng  
RT: 10.589 min Scan# 1242  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

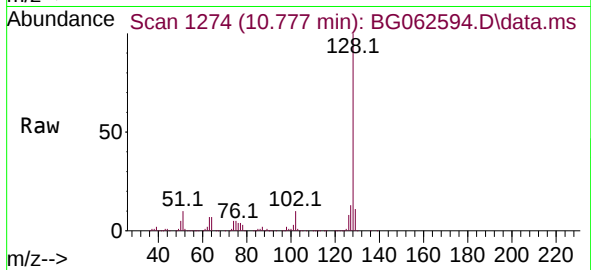
Tgt Ion:180 Resp: 241297  
Ion Ratio Lower Upper  
180 100  
182 95.8 75.6 113.4  
145 28.3 21.1 31.7





#31  
Naphthalene  
Concen: 42.787 ng  
RT: 10.777 min Scan# 1145  
Delta R.T. -0.001 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

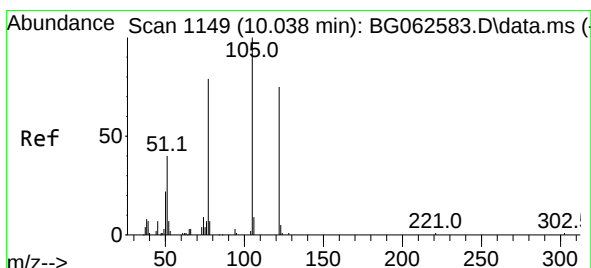
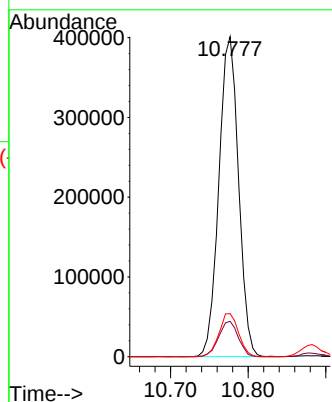
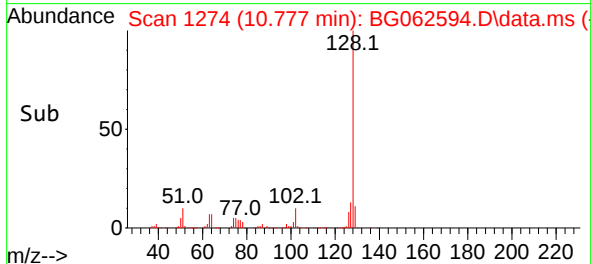
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:128 Resp: 706670  
Ion Ratio Lower Upper  
128 100  
129 11.1 8.4 12.6  
127 13.4 11.0 16.6

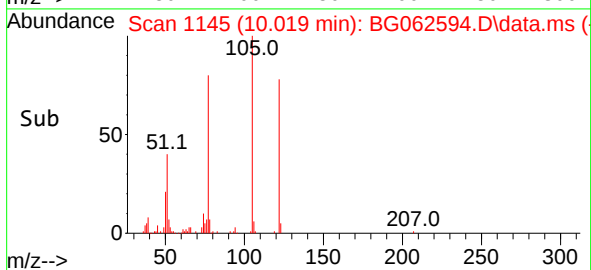
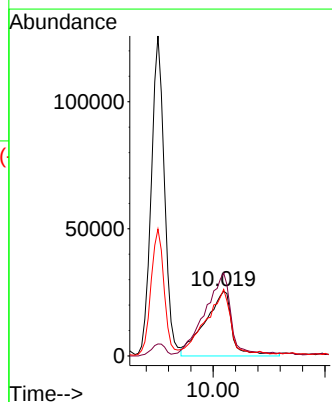
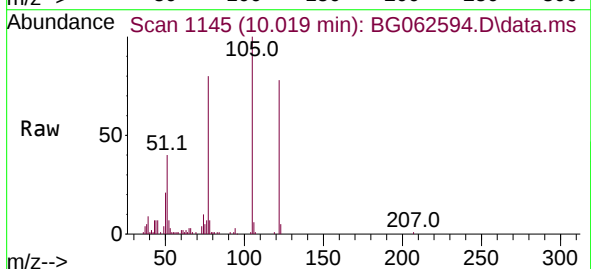
Manual Integrations  
APPROVED

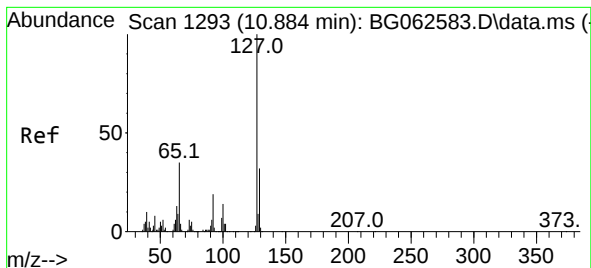
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#32  
Benzoic acid  
Concen: 33.153 ng m  
RT: 10.019 min Scan# 1145  
Delta R.T. -0.019 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

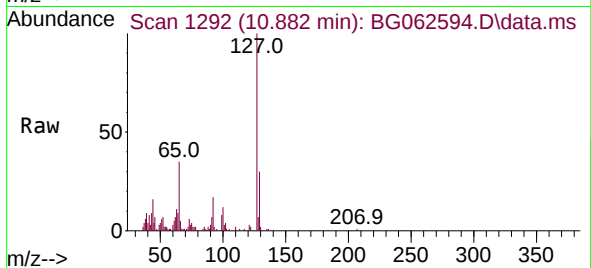
Tgt Ion:122 Resp: 86680  
Ion Ratio Lower Upper  
122 100  
105 127.9 104.4 144.4  
77 102.9 81.4 121.4





#33  
4-Chloroaniline  
Concen: 4.869 ng  
RT: 10.882 min Scan# 1292  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

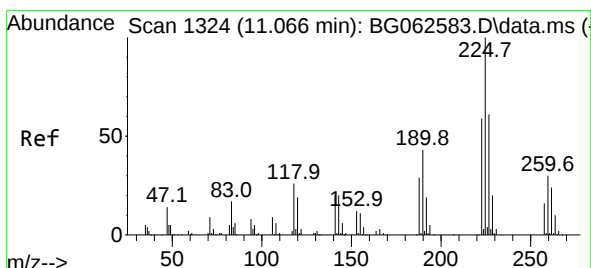
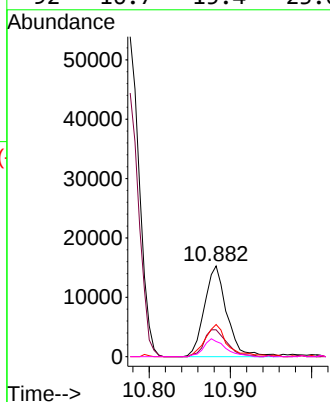
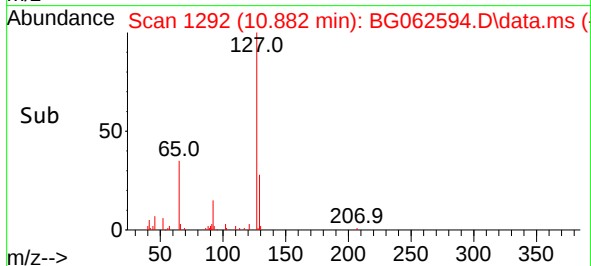
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



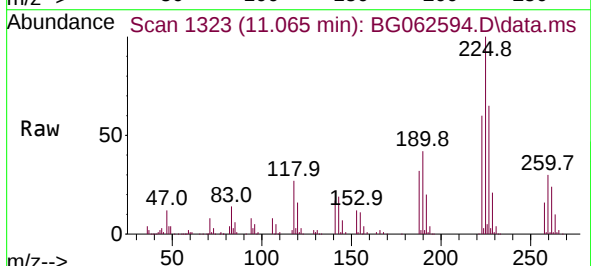
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 29.6  | 25.8  | 38.6  |
| 65      | 35.4  | 27.7  | 41.5  |
| 92      | 16.7  | 15.4  | 23.0  |

Manual Integrations  
APPROVED

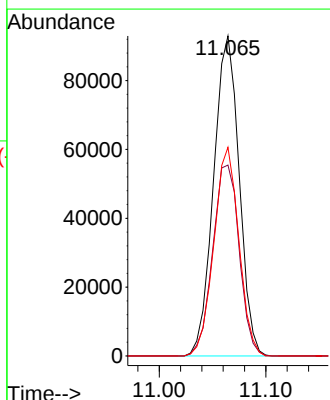
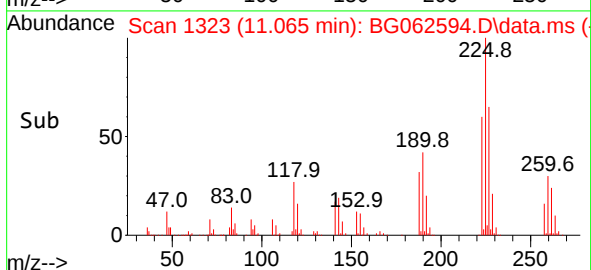
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

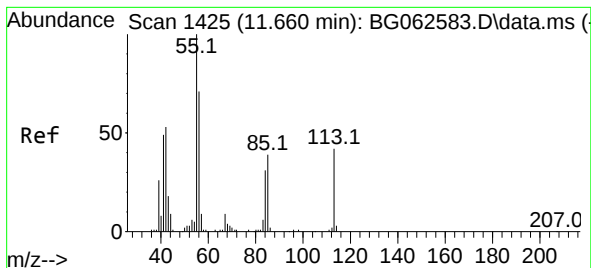


#34  
Hexachlorobutadiene  
Concen: 41.465 ng  
RT: 11.065 min Scan# 1323  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



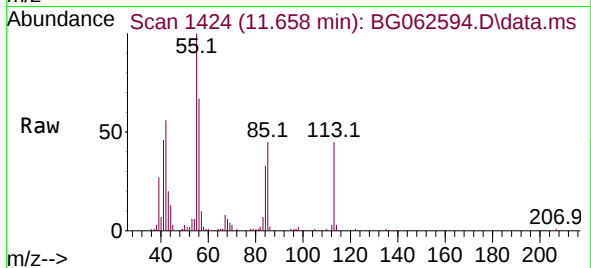
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 56.9  | 47.4  | 71.0  |
| 227     | 64.9  | 48.6  | 72.8  |





#35  
 Caprolactam  
 Concen: 52.711 ng m  
 RT: 11.658 min Scan# 1425  
 Delta R.T. -0.002 min  
 Lab File: BG062594.D  
 Acq: 28 Aug 2024 13:53

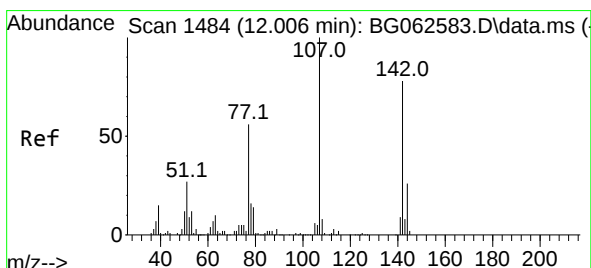
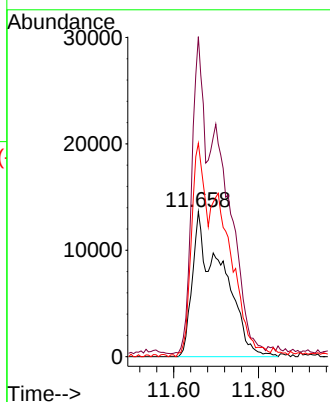
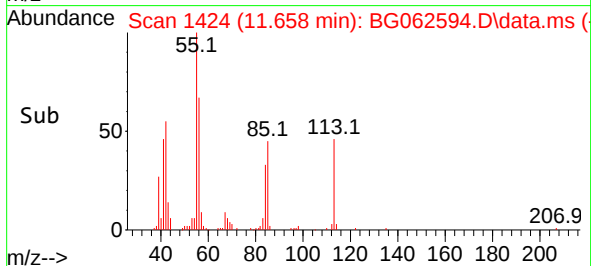
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MOO-SOIL-PILEMS



Tgt Ion:113 Resp: 66462  
 Ion Ratio Lower Upper  
 113 100  
 55 220.6 220.5 260.5  
 56 147.2 151.4 191.4

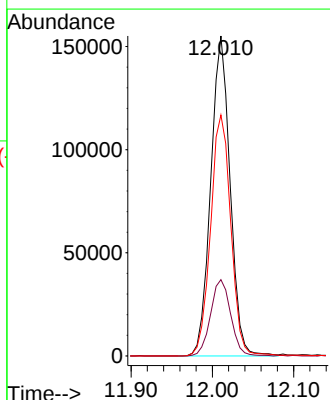
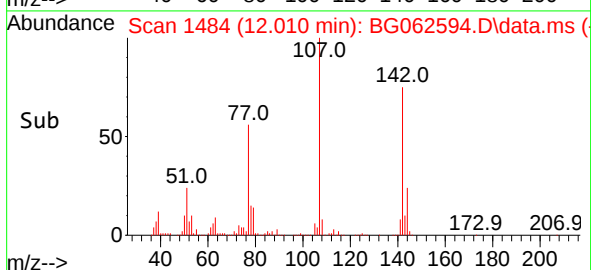
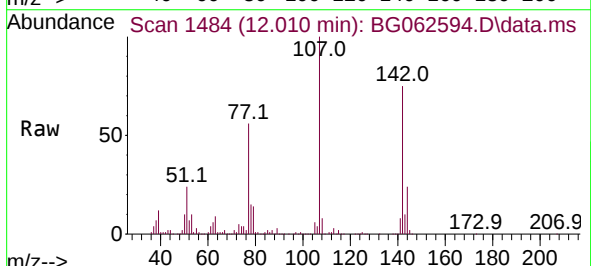
Manual Integrations  
 APPROVED

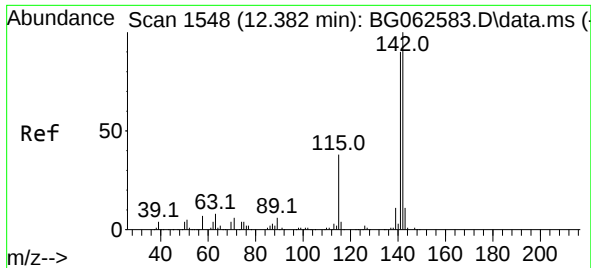
Reviewed By :Jagrut Upadhyay 08/29/2024  
 Supervised By :mohammad ahmed 08/30/2024



#36  
 4-Chloro-3-methylphenol  
 Concen: 50.692 ng  
 RT: 12.010 min Scan# 1484  
 Delta R.T. 0.004 min  
 Lab File: BG062594.D  
 Acq: 28 Aug 2024 13:53

Tgt Ion:107 Resp: 257011  
 Ion Ratio Lower Upper  
 107 100  
 144 23.8 20.8 31.2  
 142 75.3 62.5 93.7





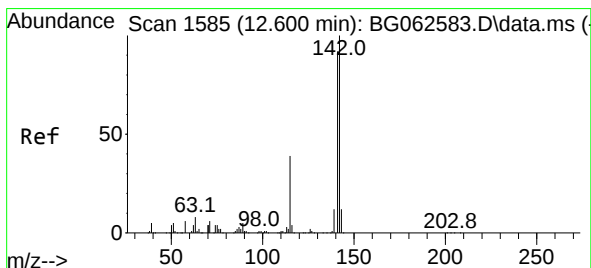
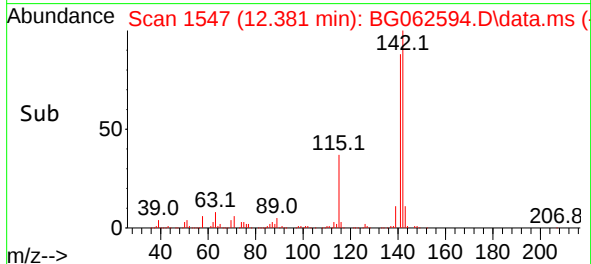
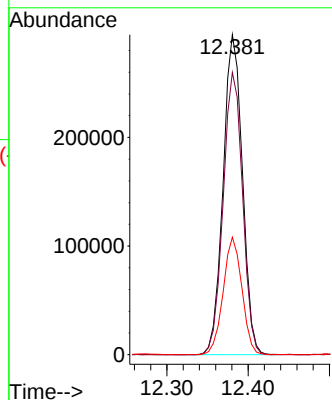
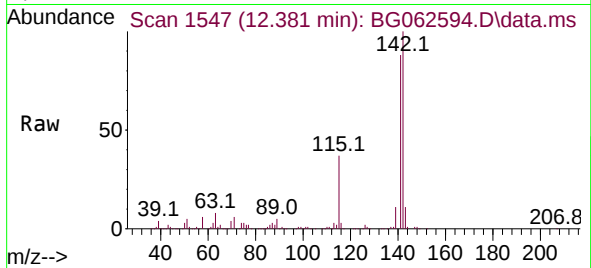
#37  
2-Methylnaphthalene  
Concen: 43.740 ng  
RT: 12.381 min Scan# 11  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion:142 Resp: 48674  
Ion Ratio Lower Upper  
142 100  
141 88.2 71.8 107.6  
115 36.7 30.6 46.0

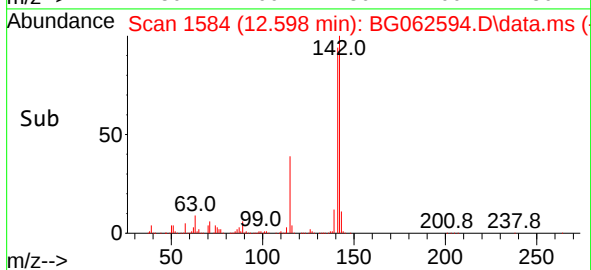
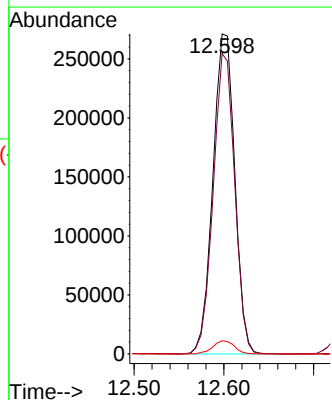
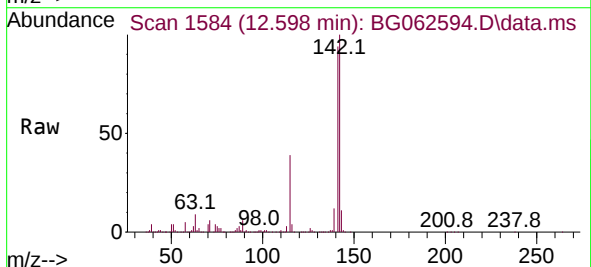
Manual Integrations  
APPROVED

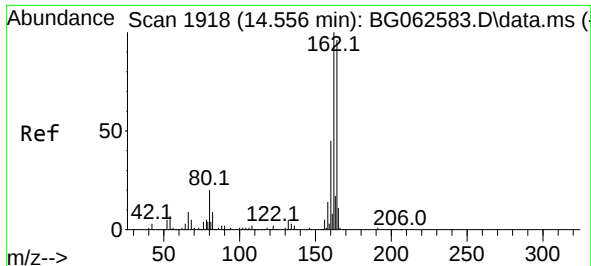
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#38  
1-Methylnaphthalene  
Concen: 41.209 ng  
RT: 12.598 min Scan# 1584  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

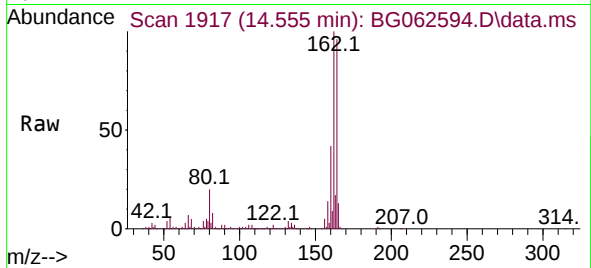
Tgt Ion:142 Resp: 458848  
Ion Ratio Lower Upper  
142 100  
141 93.9 73.6 110.4  
116 4.1 3.3 4.9





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.555 min Scan# 1918  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

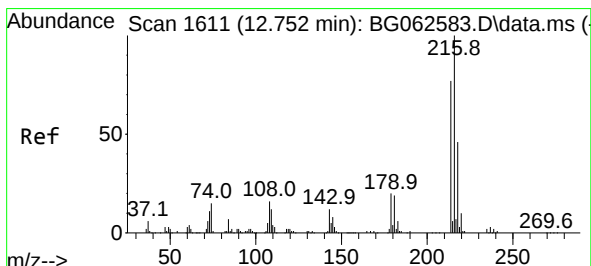
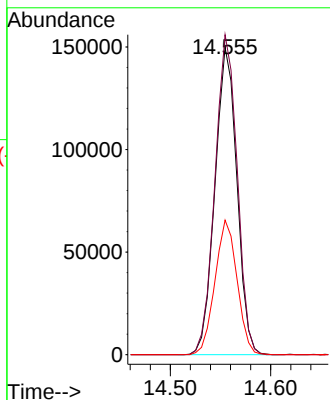
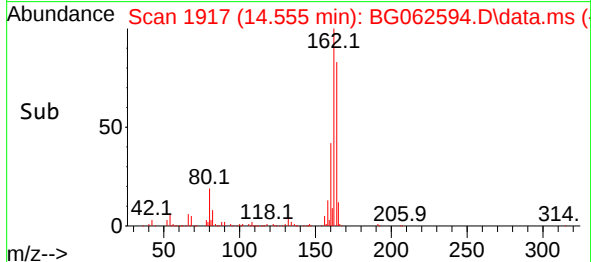
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:164 Resp: 227022  
Ion Ratio Lower Upper  
164 100  
162 104.1 83.0 124.6  
160 43.8 37.7 56.5

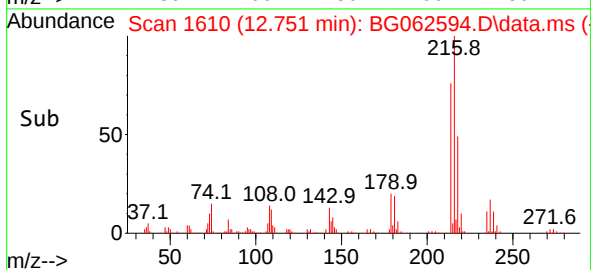
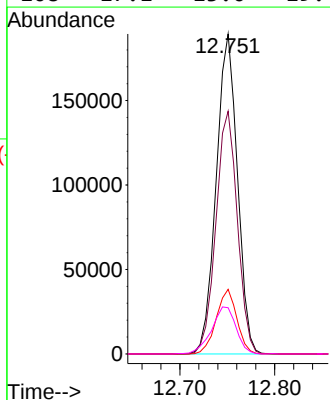
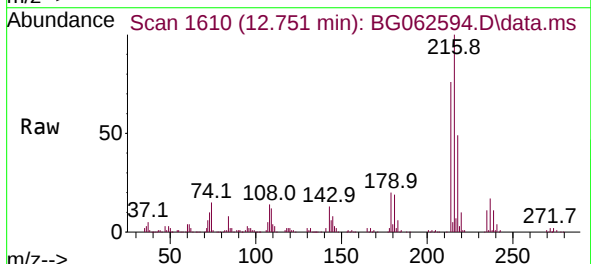
Manual Integrations  
APPROVED

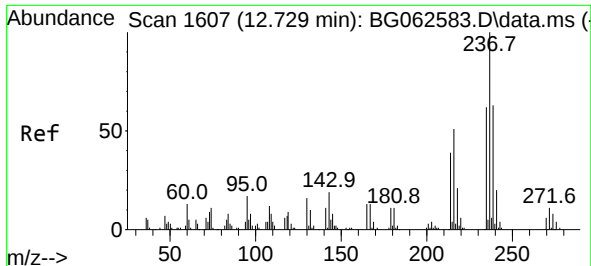
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 45.565 ng  
RT: 12.751 min Scan# 1610  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

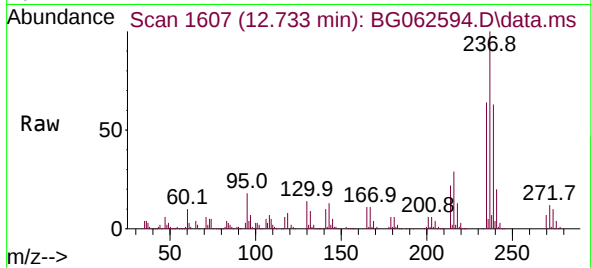
Tgt Ion:216 Resp: 294622  
Ion Ratio Lower Upper  
216 100  
214 76.6 60.9 91.3  
179 19.7 16.0 24.0  
108 17.1 13.0 19.4





#41  
Hexachlorocyclopentadiene  
Concen: 178.055 ng  
RT: 12.733 min Scan# 1  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

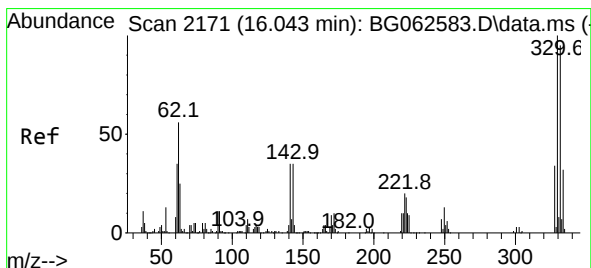
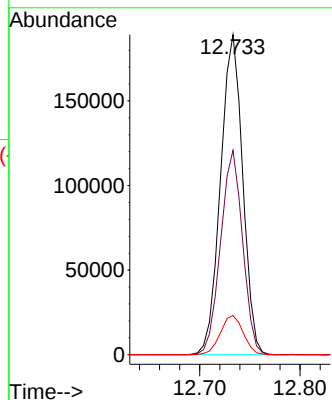
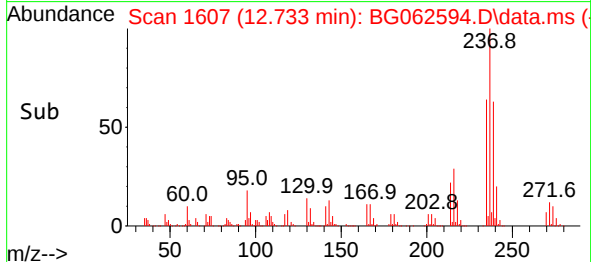
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



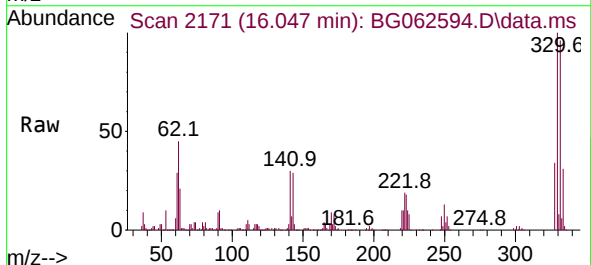
Tgt Ion:237 Resp: 289464  
Ion Ratio Lower Upper  
237 100  
235 63.9 41.8 81.8  
272 12.3 0.0 31.4

Manual Integrations  
APPROVED

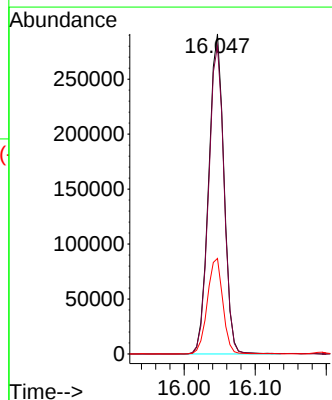
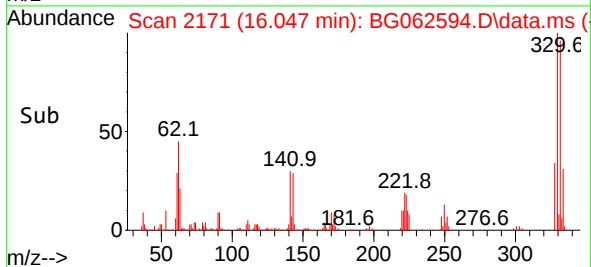
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

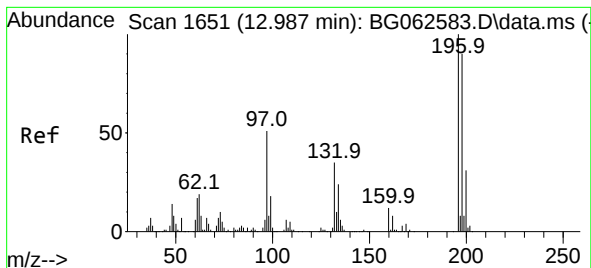


#42  
2,4,6-Tribromophenol  
Concen: 173.687 ng  
RT: 16.047 min Scan# 2171  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



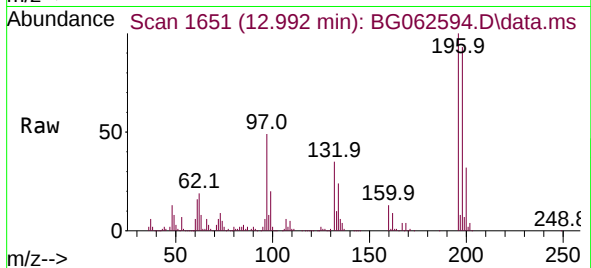
Tgt Ion:330 Resp: 435567  
Ion Ratio Lower Upper  
330 100  
332 97.3 77.6 116.4  
141 30.4 26.5 39.7





#43  
2,4,6-Trichlorophenol  
Concen: 56.659 ng  
RT: 12.992 min Scan# 1651  
Delta R.T. 0.005 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

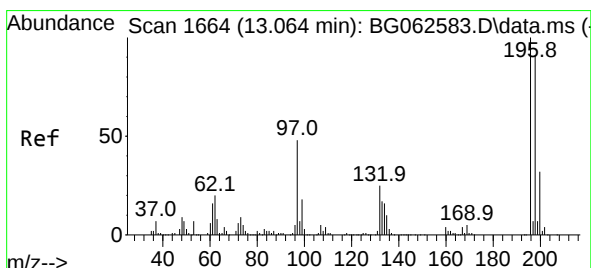
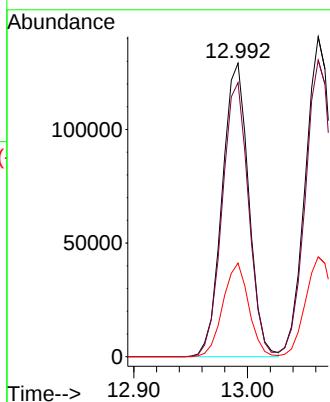
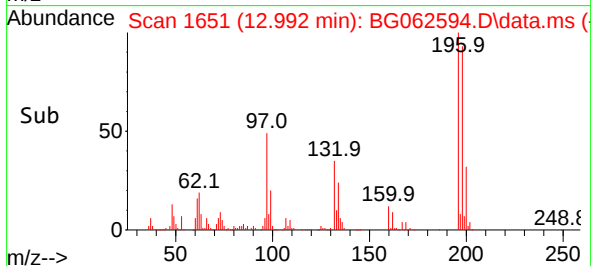
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



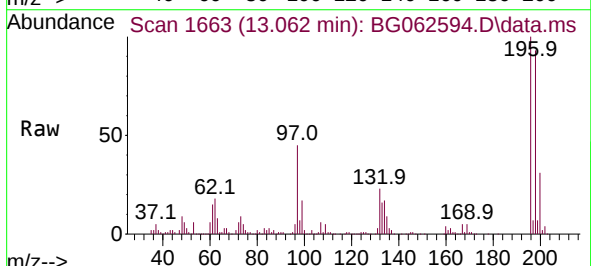
Tgt Ion:196 Resp: 20968  
Ion Ratio Lower Upper  
196 100  
198 93.4 71.8 107.8  
200 31.9 24.6 37.0

Manual Integrations  
APPROVED

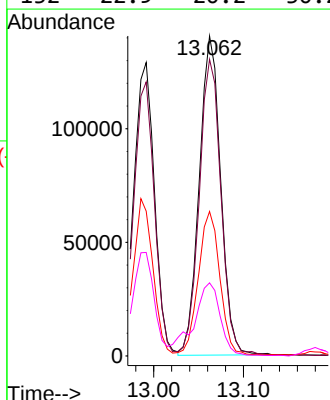
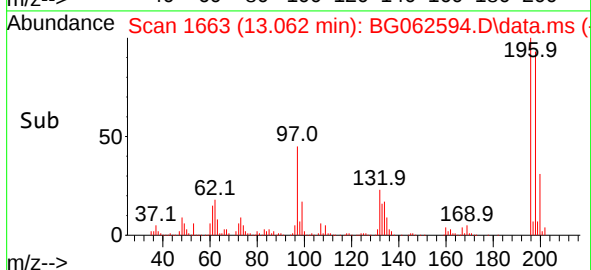
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

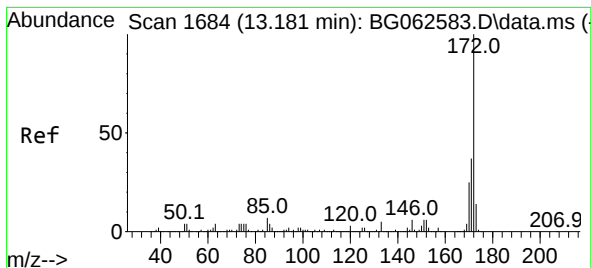


#44  
2,4,5-Trichlorophenol  
Concen: 53.471 ng  
RT: 13.062 min Scan# 1663  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



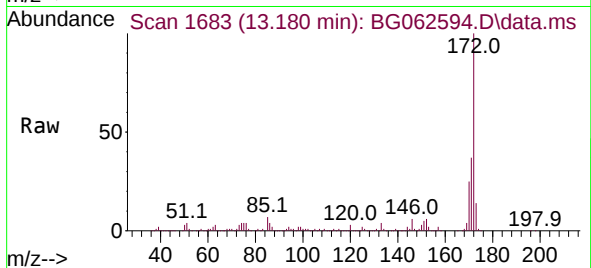
Tgt Ion:196 Resp: 233207  
Ion Ratio Lower Upper  
196 100  
198 92.7 72.6 108.8  
97 45.2 38.7 58.1  
132 22.9 20.2 30.2





#45  
2-Fluorobiphenyl  
Concen: 90.558 ng  
RT: 13.180 min Scan# 1  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

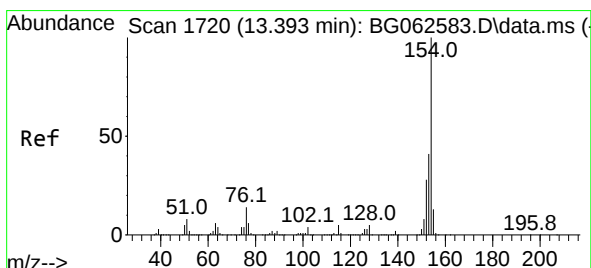
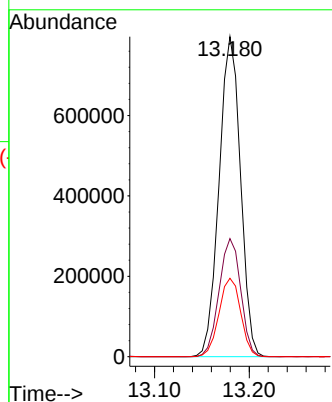
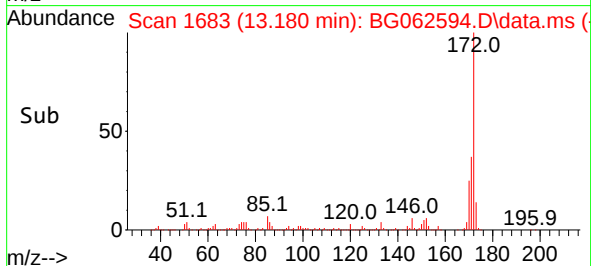
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



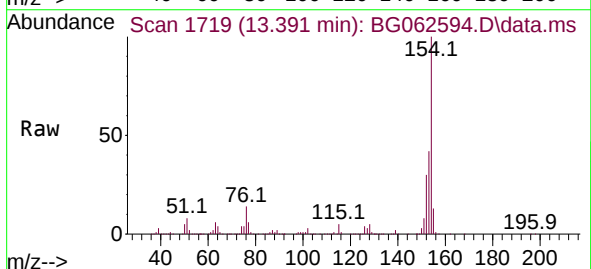
Tgt Ion:172 Resp: 125029  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.7 44.5  
170 24.5 20.1 30.1

Manual Integrations  
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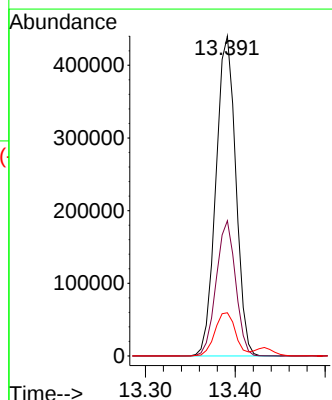
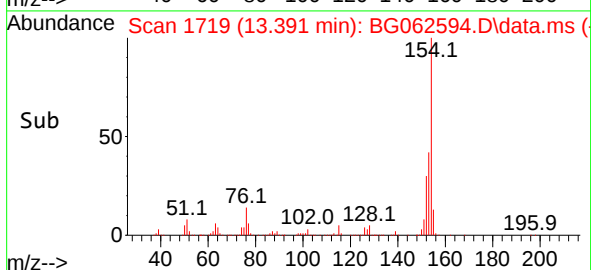
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

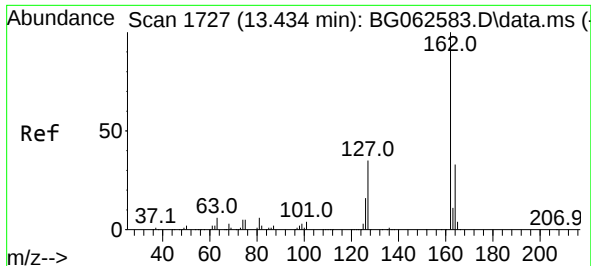


#46  
1,1'-Biphenyl  
Concen: 44.467 ng  
RT: 13.391 min Scan# 1719  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



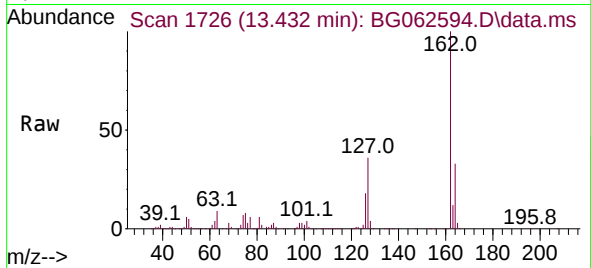
Tgt Ion:154 Resp: 675437  
Ion Ratio Lower Upper  
154 100  
153 42.3 21.1 61.1  
76 13.5 0.0 33.5





#47  
2-Chloronaphthalene  
Concen: 45.230 ng  
RT: 13.432 min Scan# 1727  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

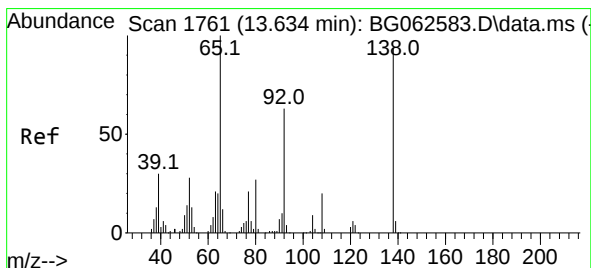
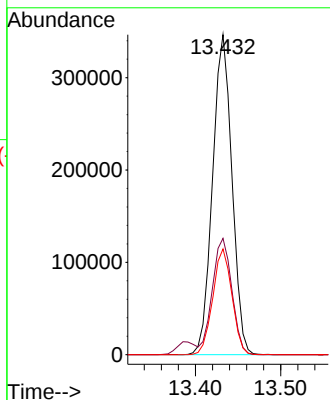
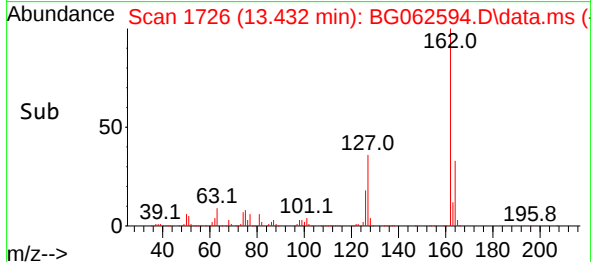
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:162 Resp: 54834  
Ion Ratio Lower Upper  
162 100  
127 36.3 30.0 45.0  
164 33.1 26.6 40.0

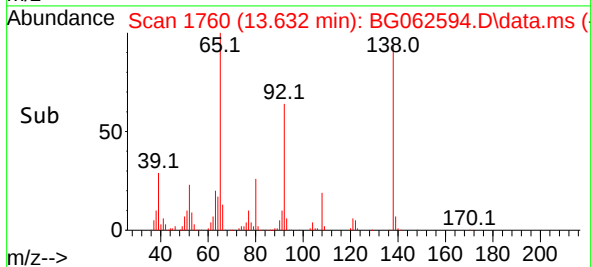
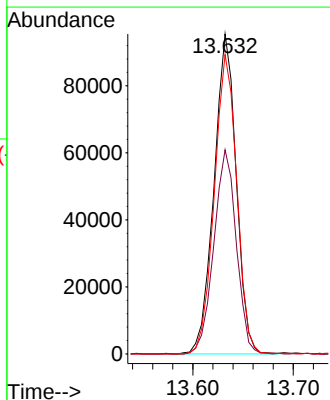
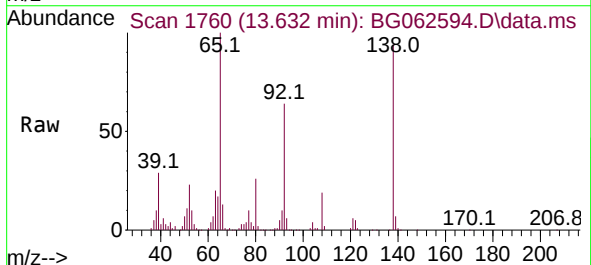
Manual Integrations  
APPROVED

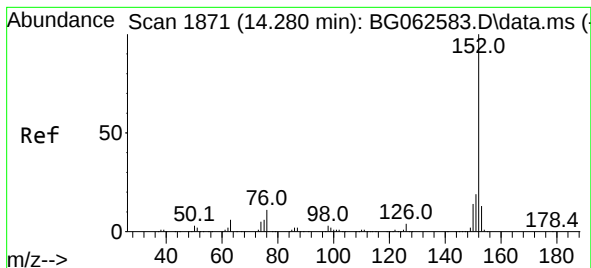
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#48  
2-Nitroaniline  
Concen: 56.465 ng  
RT: 13.632 min Scan# 1760  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion: 65 Resp: 146783  
Ion Ratio Lower Upper  
65 100  
92 63.8 50.6 76.0  
138 93.6 75.4 113.2





#49

Acenaphthylene

Concen: 49.815 ng

RT: 14.278 min Scan# 1870

Delta R.T. -0.002 min

Lab File: BG062594.D

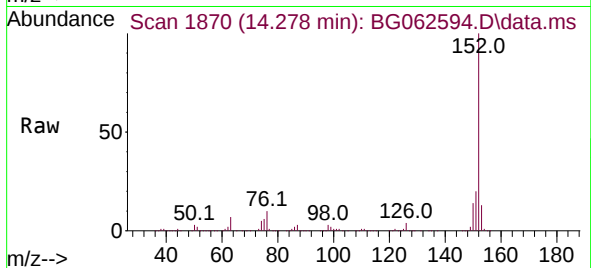
Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS



Tgt Ion:152 Resp: 920684

Ion Ratio Lower Upper

152 100

151 19.7 15.0 22.4

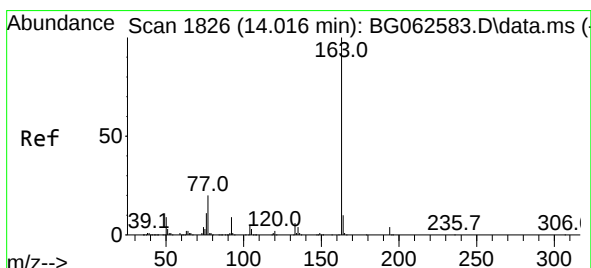
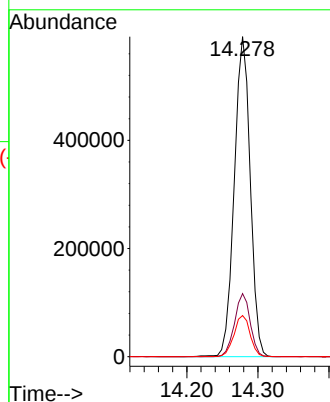
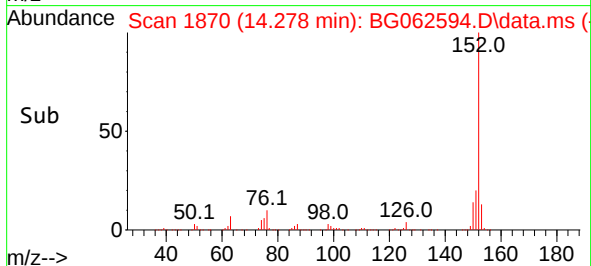
153 12.9 10.3 15.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024

Supervised By :mohammad ahmed 08/30/2024



#50

Dimethylphthalate

Concen: 53.476 ng

RT: 14.014 min Scan# 1825

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

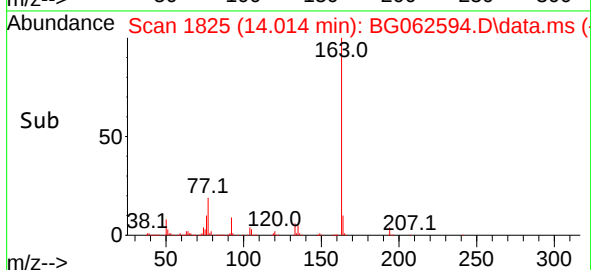
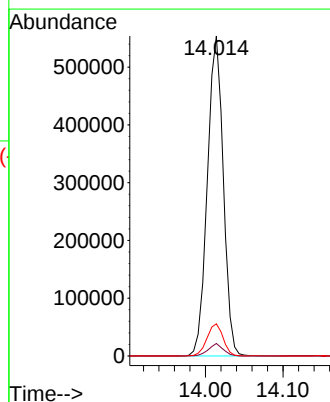
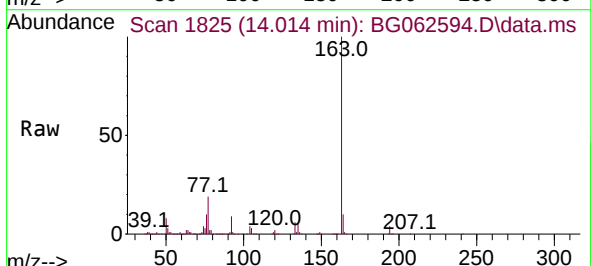
Tgt Ion:163 Resp: 788882

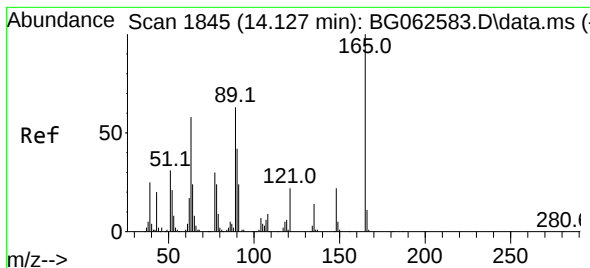
Ion Ratio Lower Upper

163 100

194 3.9 2.8 4.2

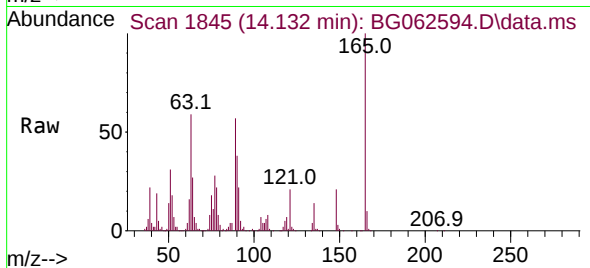
164 10.1 8.0 12.0





#51  
2,6-Dinitrotoluene  
Concen: 46.191 ng  
RT: 14.132 min Scan# 1845  
Delta R.T. 0.005 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

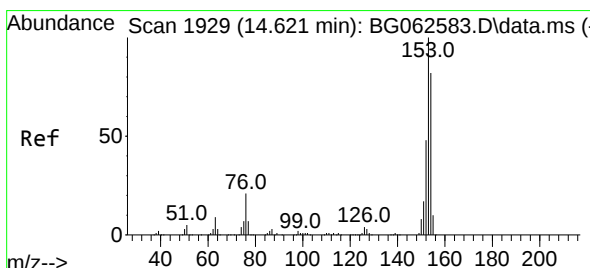
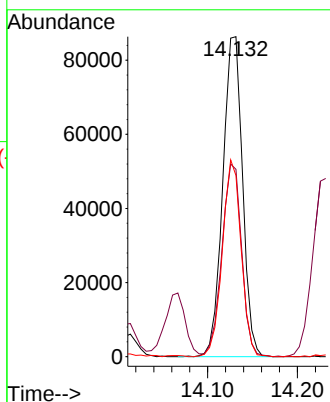
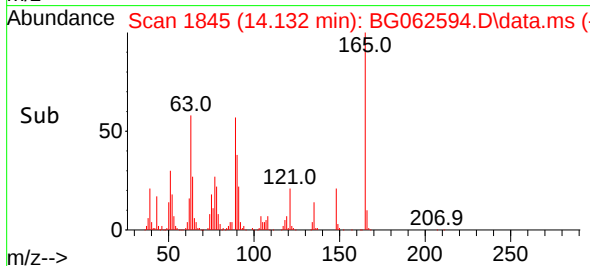
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:165 Resp: 131820  
Ion Ratio Lower Upper  
165 100  
63 58.5 51.0 76.6  
89 56.6 50.6 76.0

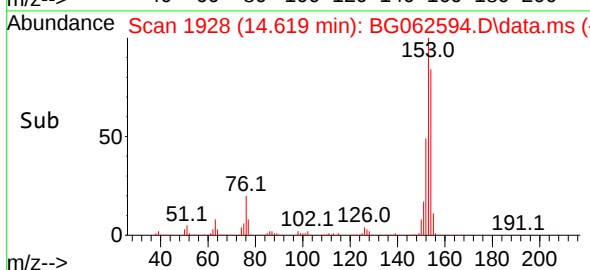
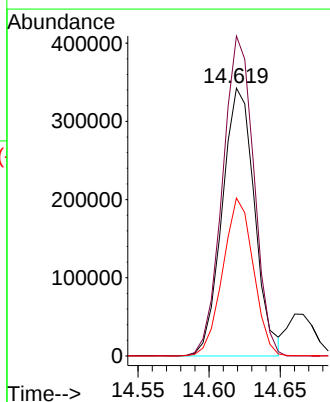
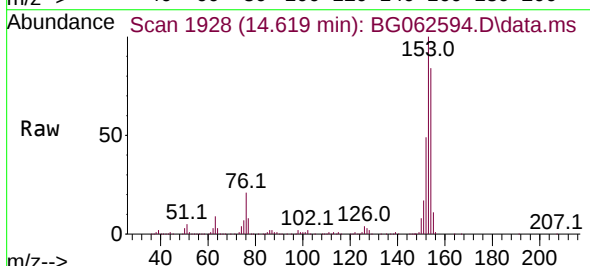
Manual Integrations  
APPROVED

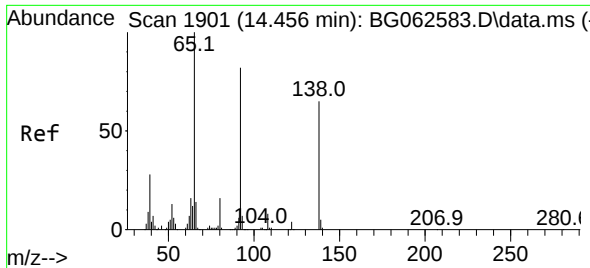
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#52  
Acenaphthene  
Concen: 47.608 ng  
RT: 14.619 min Scan# 1928  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

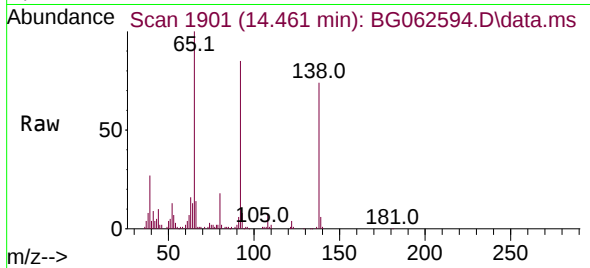
Tgt Ion:154 Resp: 542860  
Ion Ratio Lower Upper  
154 100  
153 119.5 97.8 146.8  
152 59.0 46.8 70.2





#53  
3-Nitroaniline  
Concen: 18.862 ng  
RT: 14.461 min Scan# 1901  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

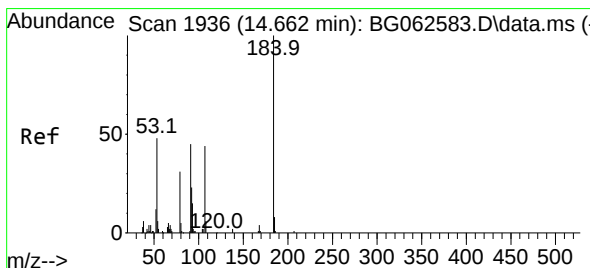
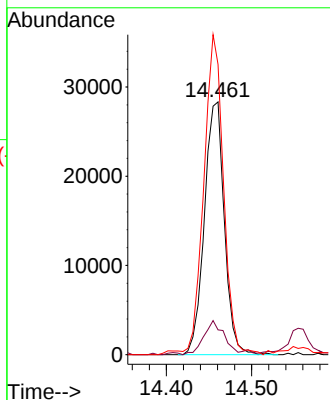
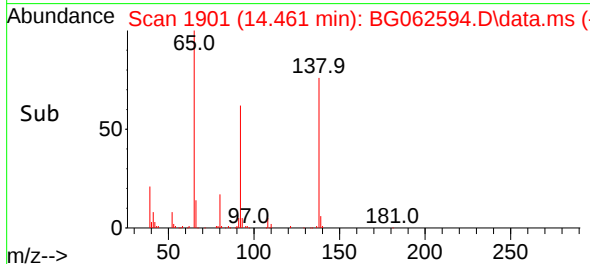
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:138 Resp: 46200  
Ion Ratio Lower Upper  
138 100  
108 9.8 9.4 14.2  
92 114.8 101.2 151.8

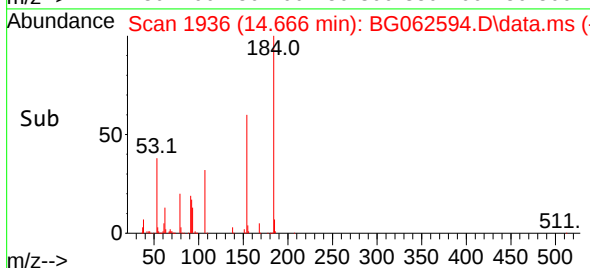
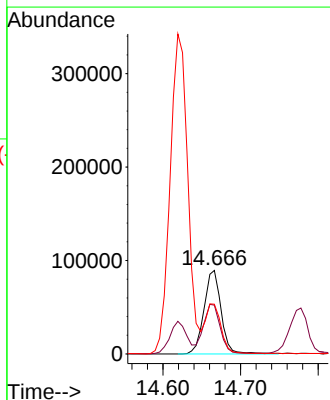
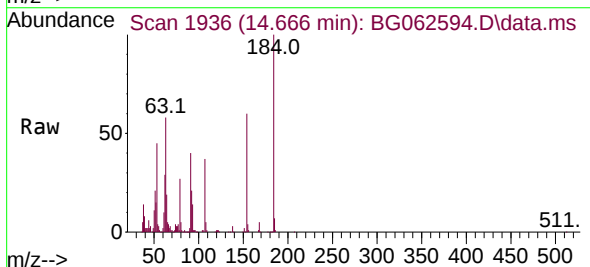
Manual Integrations  
APPROVED

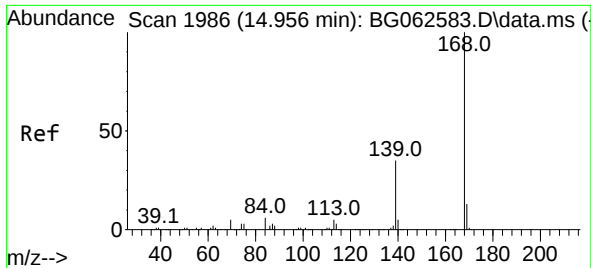
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#54  
2,4-Dinitrophenol  
Concen: 102.193 ng  
RT: 14.666 min Scan# 1936  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:184 Resp: 137169  
Ion Ratio Lower Upper  
184 100  
63 58.5 48.6 73.0  
154 59.6 50.6 76.0





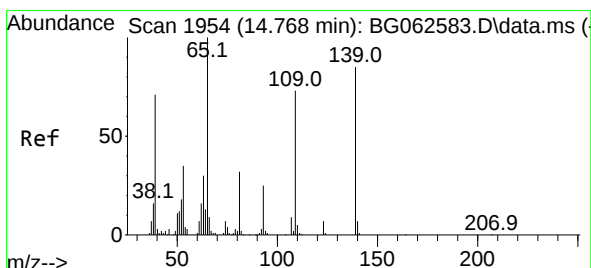
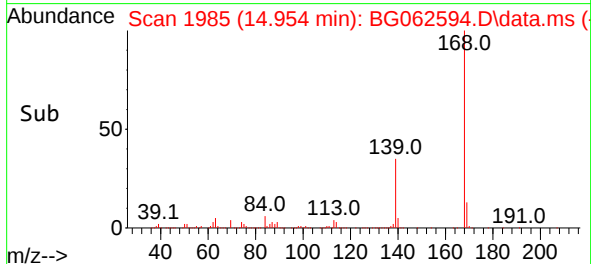
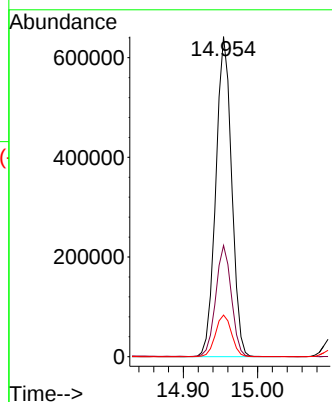
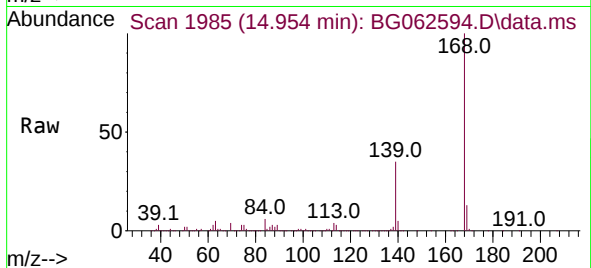
#55  
Dibenzenofuran  
Concen: 48.663 ng  
RT: 14.954 min Scan# 1985  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion:168 Resp: 951424  
Ion Ratio Lower Upper  
168 100  
139 34.7 28.2 42.4  
169 13.0 10.5 15.7

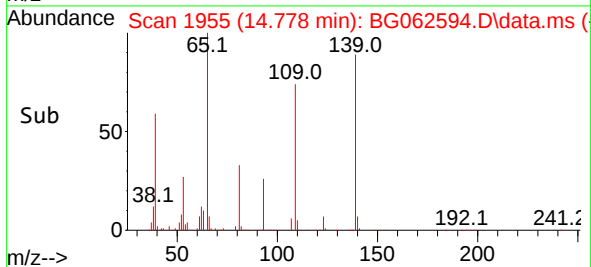
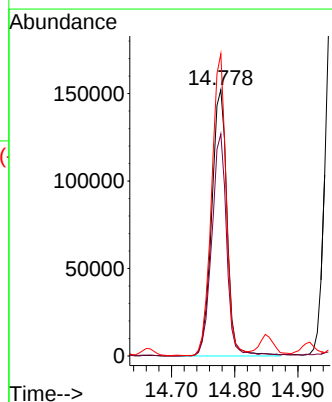
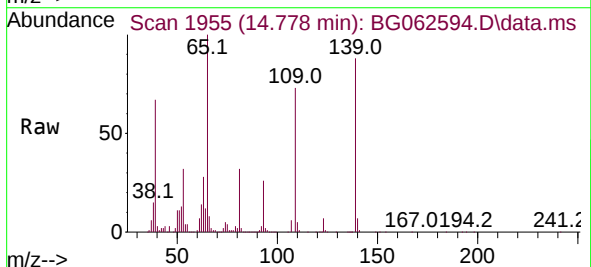
Manual Integrations  
APPROVED

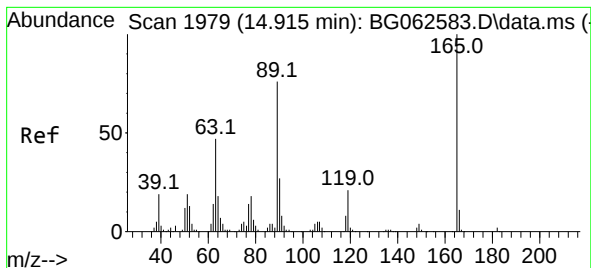
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#56  
4-Nitrophenol  
Concen: 110.674 ng  
RT: 14.778 min Scan# 1955  
Delta R.T. 0.010 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

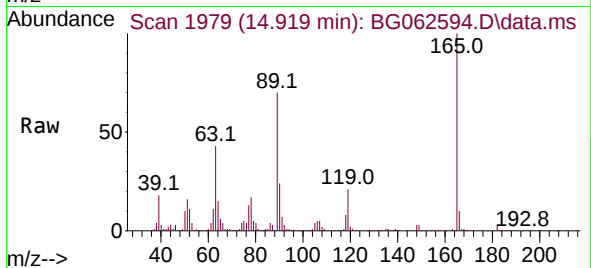
Tgt Ion:139 Resp: 256137  
Ion Ratio Lower Upper  
139 100  
109 83.4 66.7 106.7  
65 113.5 98.1 138.1





#57  
2,4-Dinitrotoluene  
Concen: 58.329 ng  
RT: 14.919 min Scan# 1979  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

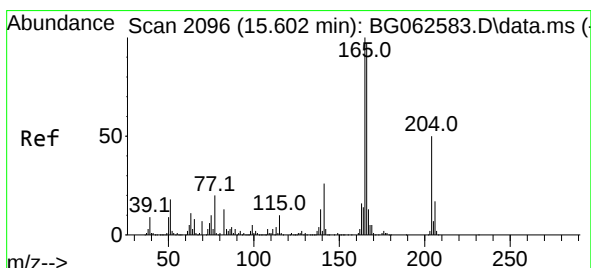
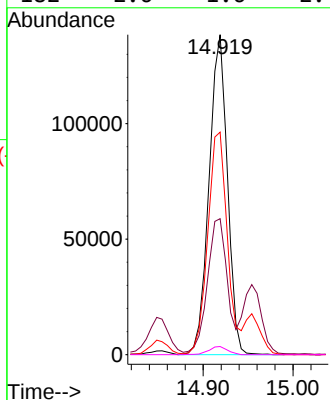
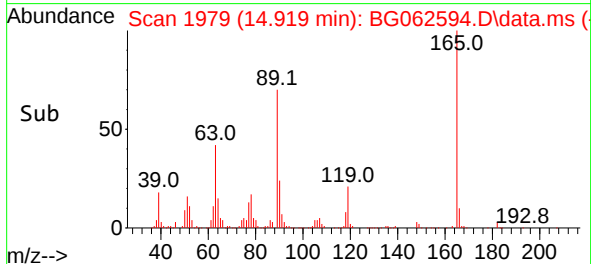
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:165 Resp: 19661  
Ion Ratio Lower Upper  
165 100  
63 42.5 37.5 56.3  
89 69.6 60.8 91.2  
182 2.6 1.6 2.4#

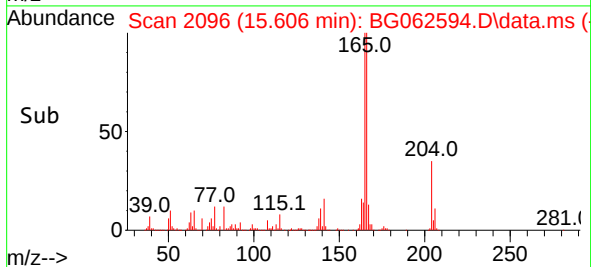
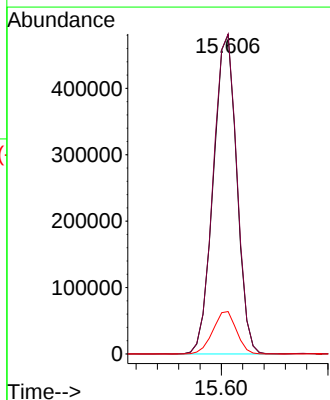
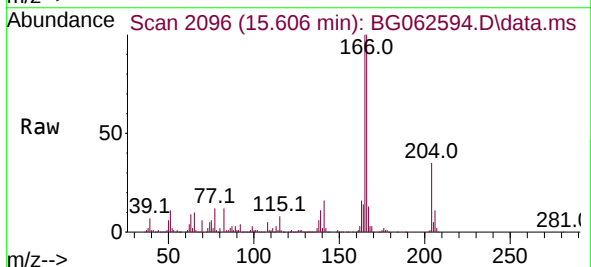
Manual Integrations  
APPROVED

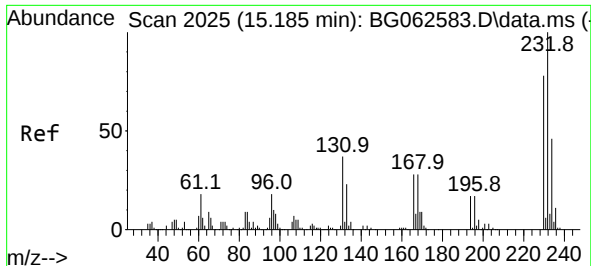
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#58  
Fluorene  
Concen: 47.544 ng  
RT: 15.606 min Scan# 2096  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

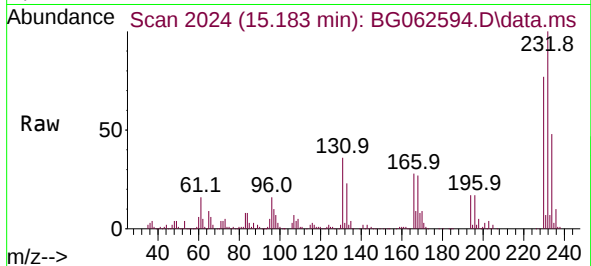
Tgt Ion:166 Resp: 729971  
Ion Ratio Lower Upper  
166 100  
165 100.2 82.6 123.8  
167 13.3 10.6 15.8





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 58.874 ng  
RT: 15.183 min Scan# 2025  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

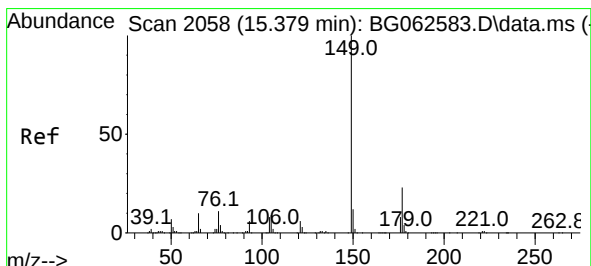
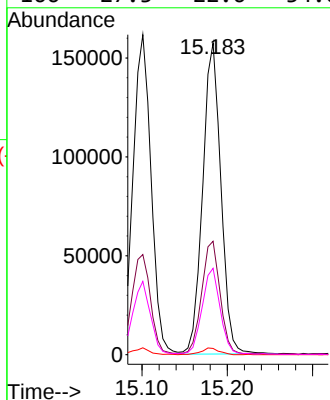
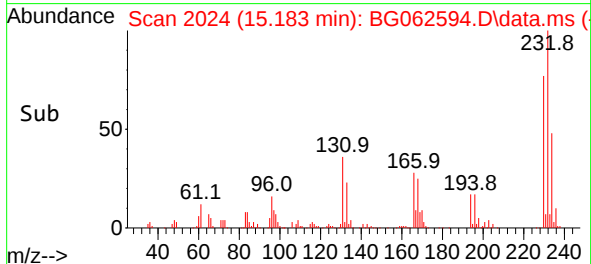
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



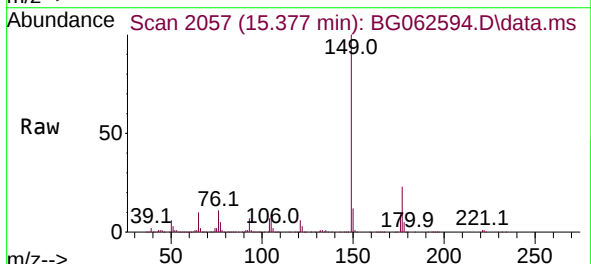
Tgt Ion:232 Resp: 233749  
Ion Ratio Lower Upper  
232 100  
131 36.6 30.5 45.7  
130 2.1 1.8 2.8  
166 27.3 22.6 34.0

Manual Integrations  
APPROVED

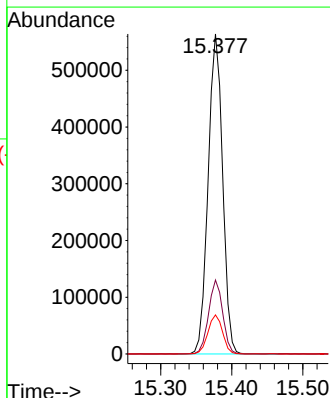
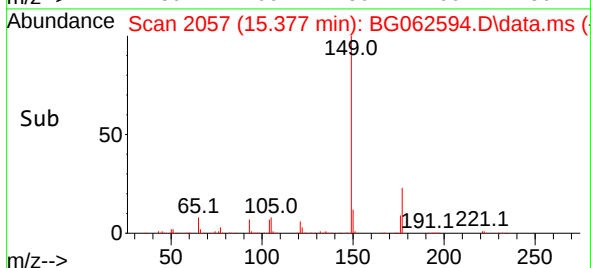
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

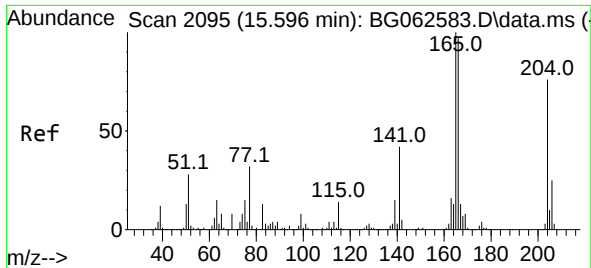


#60  
Diethylphthalate  
Concen: 56.604 ng  
RT: 15.377 min Scan# 2057  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



Tgt Ion:149 Resp: 800220  
Ion Ratio Lower Upper  
149 100  
177 23.1 18.2 27.2  
150 12.2 9.8 14.8





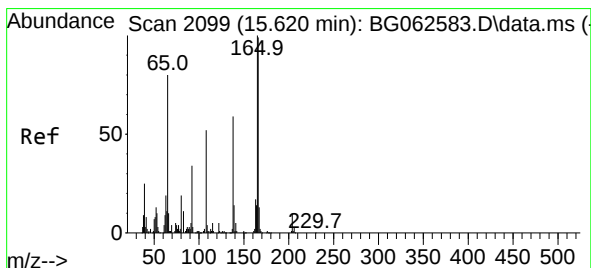
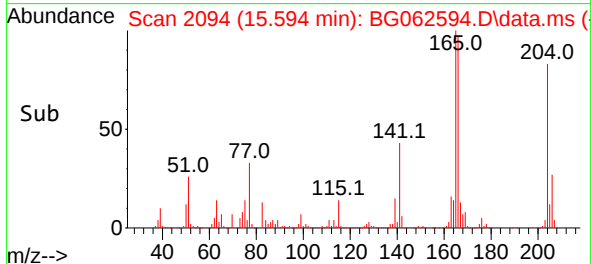
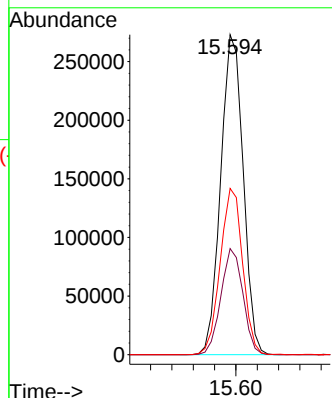
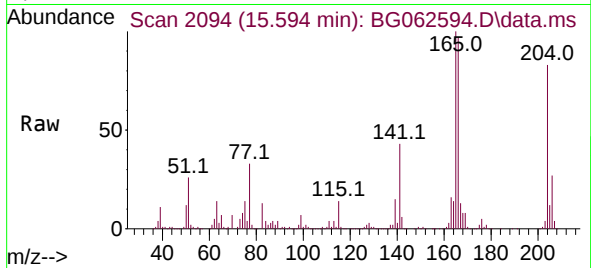
#61  
4-Chlorophenyl-phenylether  
Concen: 48.924 ng  
RT: 15.594 min Scan# 2094  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion:204 Resp: 39918  
Ion Ratio Lower Upper  
204 100  
206 33.1 26.2 39.4  
141 51.9 44.0 66.0

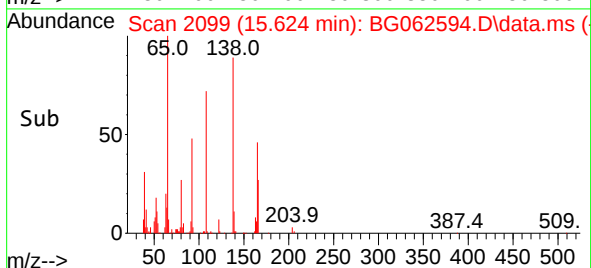
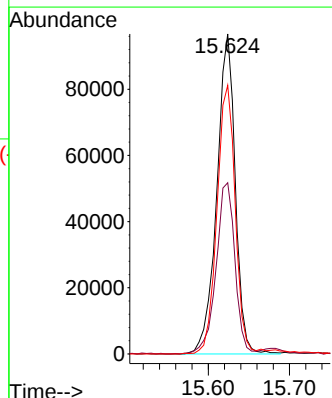
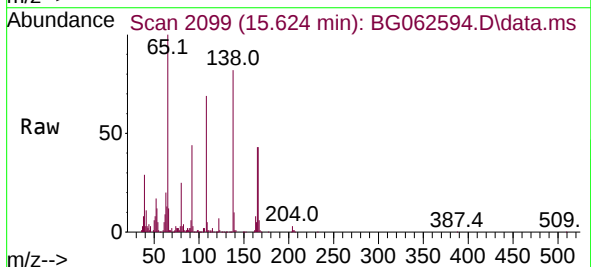
Manual Integrations  
APPROVED

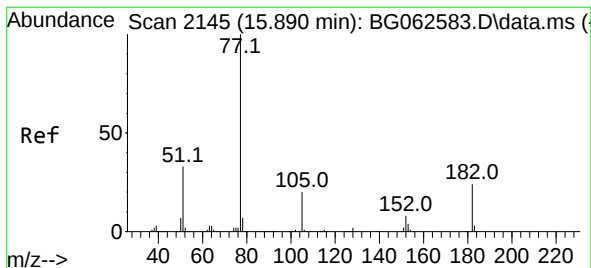
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#62  
4-Nitroaniline  
Concen: 56.287 ng  
RT: 15.624 min Scan# 2099  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:138 Resp: 152996  
Ion Ratio Lower Upper  
138 100  
92 53.5 37.6 77.6  
108 84.0 68.3 108.3





#63

Azobenzene

Concen: 46.886 ng

RT: 15.888 min Scan# 2144

Delta R.T. -0.002 min

Lab File: BG062594.D

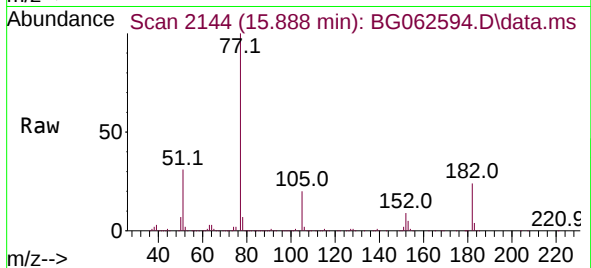
Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS



Tgt Ion: 77 Resp: 753194

Ion Ratio Lower Upper

77 100

182 24.3 3.6 43.6

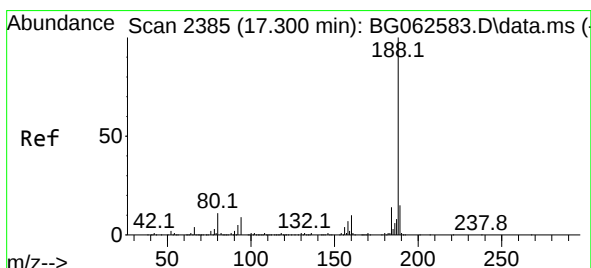
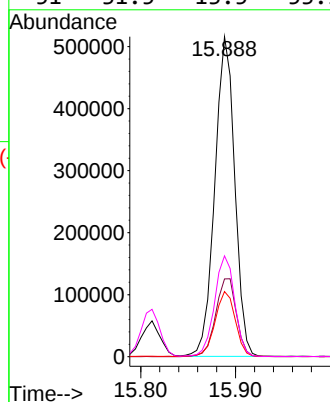
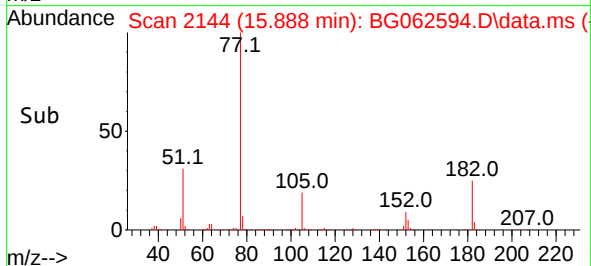
105 20.3 0.0 39.5

51 31.5 13.5 53.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.298 min Scan# 2384

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

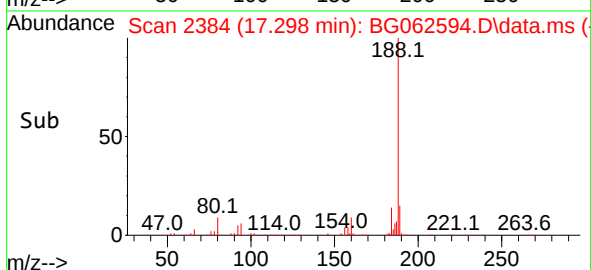
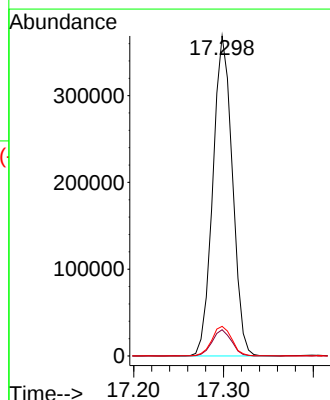
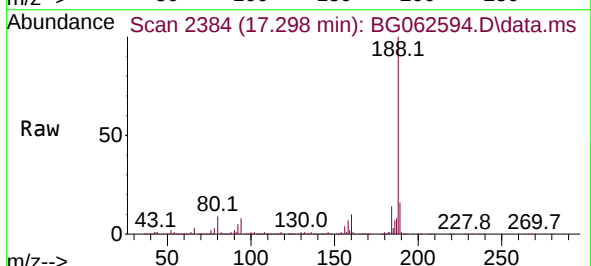
Tgt Ion:188 Resp: 557169

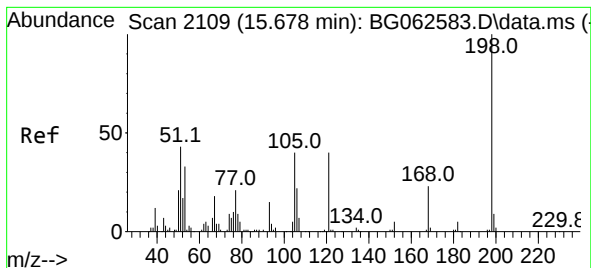
Ion Ratio Lower Upper

188 100

94 8.2 7.0 10.6

80 9.3 8.4 12.6





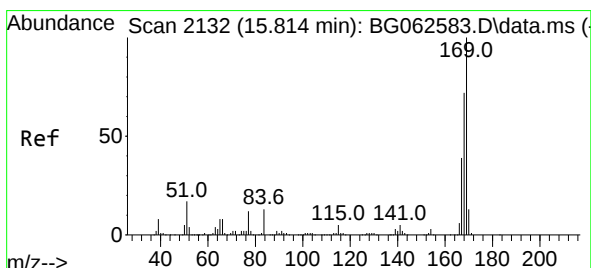
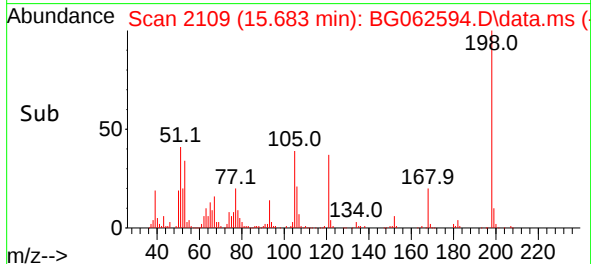
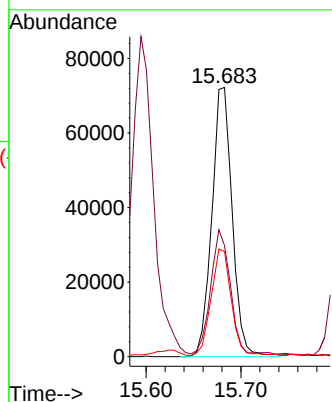
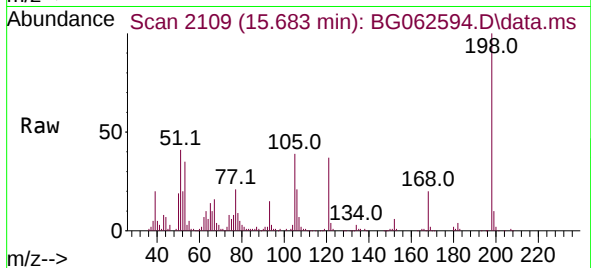
#65  
4,6-Dinitro-2-methylphenol  
Concen: 57.303 ng  
RT: 15.683 min Scan# 2109  
Delta R.T. 0.005 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS

Tgt Ion:198 Resp: 10801  
Ion Ratio Lower Upper  
198 100  
51 41.3 25.9 65.9  
105 39.0 20.8 60.8

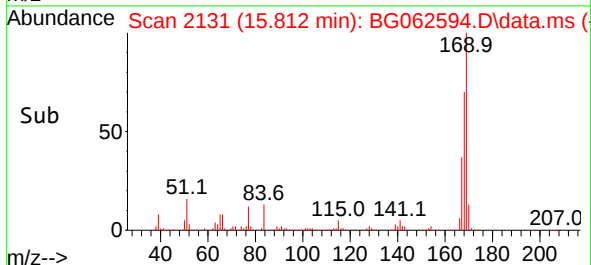
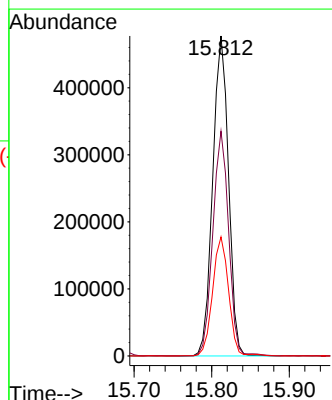
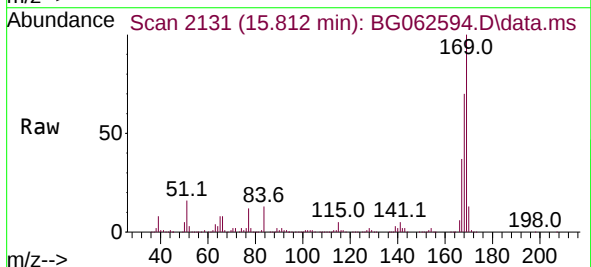
Manual Integrations  
APPROVED

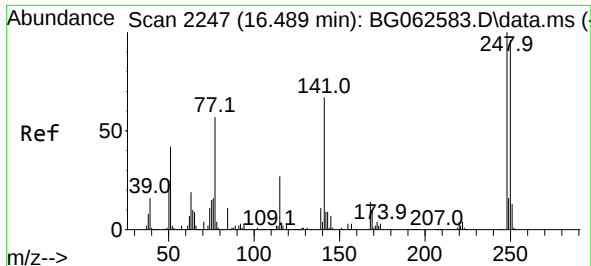
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#66  
n-Nitrosodiphenylamine  
Concen: 49.819 ng  
RT: 15.812 min Scan# 2131  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

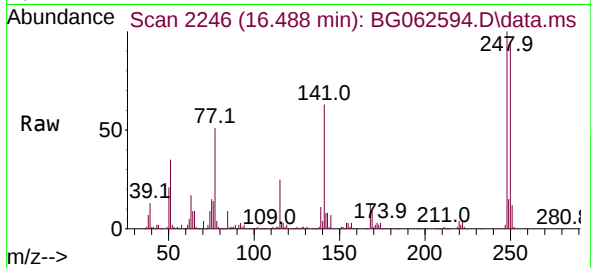
Tgt Ion:169 Resp: 674203  
Ion Ratio Lower Upper  
169 100  
168 70.3 57.9 86.9  
167 37.2 30.9 46.3





#67  
4-Bromophenyl-phenylether  
Concen: 50.459 ng  
RT: 16.488 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

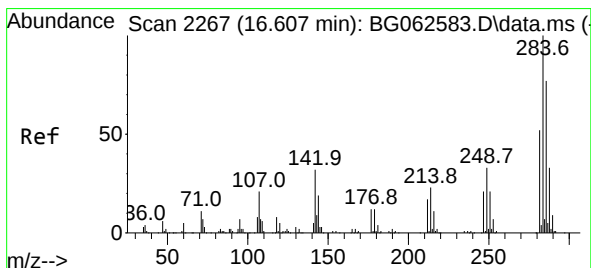
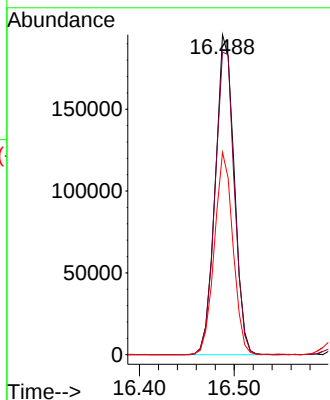
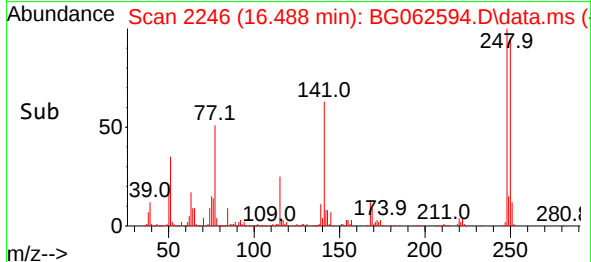
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



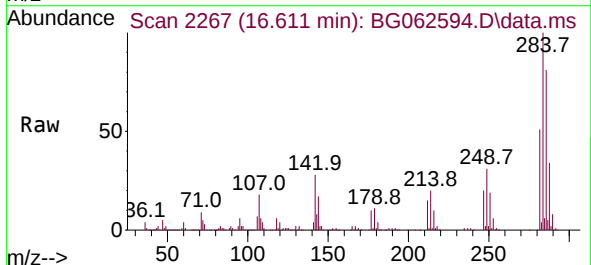
Tgt Ion:248 Resp: 27061  
Ion Ratio Lower Upper  
248 100  
250 94.6 76.7 115.1  
141 63.2 54.0 81.0

Manual Integrations  
APPROVED

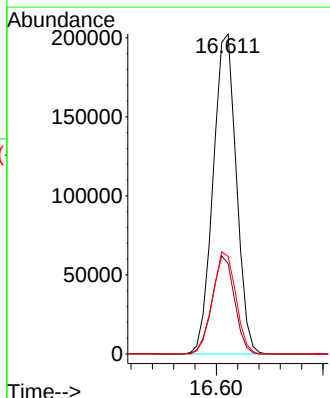
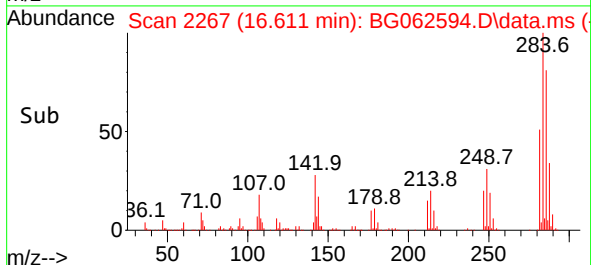
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

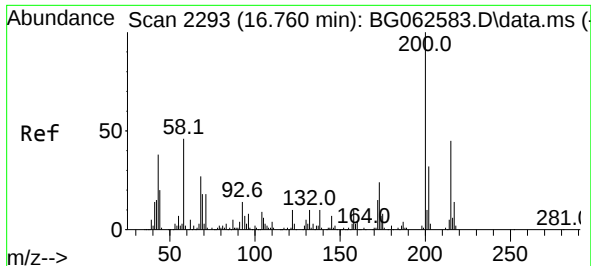


#68  
Hexachlorobenzene  
Concen: 49.282 ng  
RT: 16.611 min Scan# 2267  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



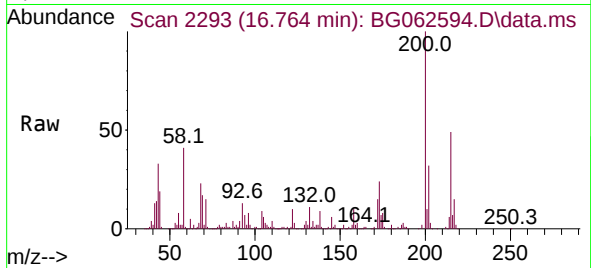
Tgt Ion:284 Resp: 305403  
Ion Ratio Lower Upper  
284 100  
142 28.2 25.7 38.5  
249 33.0 28.7 43.1





#69  
Atrazine  
Concen: 74.349 ng  
RT: 16.764 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

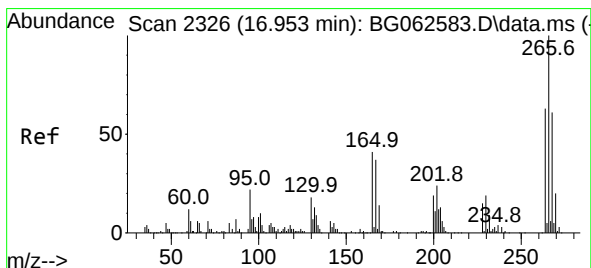
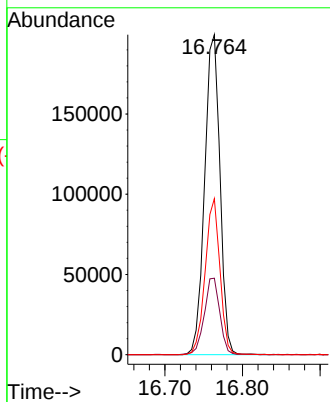
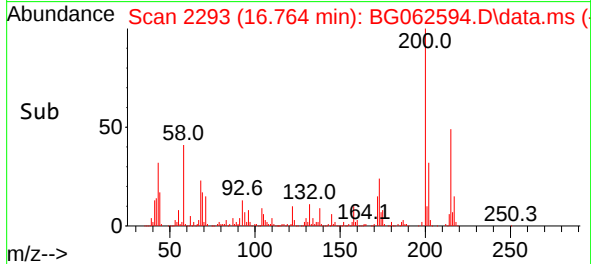
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



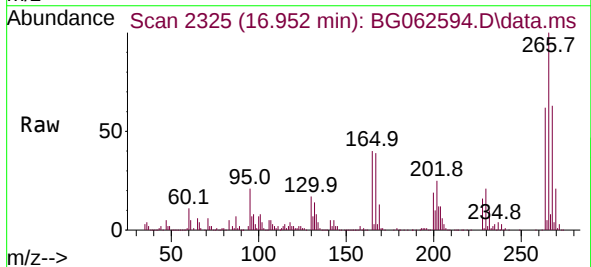
Tgt Ion:200 Resp: 27368  
Ion Ratio Lower Upper  
200 100  
173 23.9 3.7 43.7  
215 48.8 25.1 65.1

Manual Integrations  
APPROVED

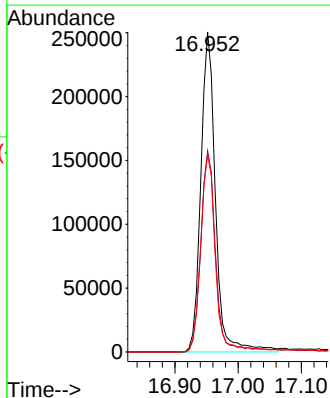
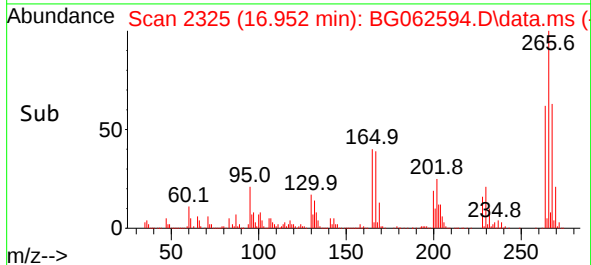
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024

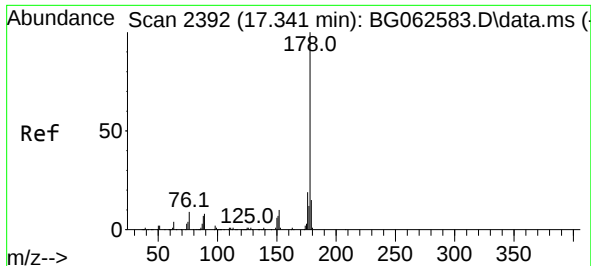


#70  
Pentachlorophenol  
Concen: 108.667 ng  
RT: 16.952 min Scan# 2325  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



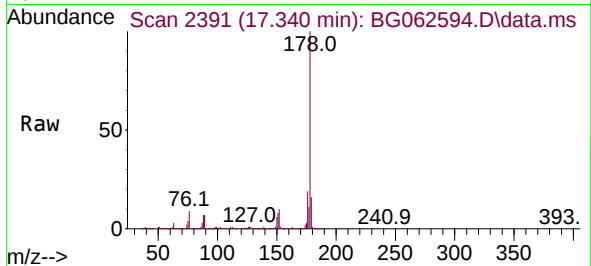
Tgt Ion:266 Resp: 403592  
Ion Ratio Lower Upper  
266 100  
268 67.3 53.1 79.7  
264 66.8 54.2 81.4





#71  
Phenanthrene  
Concen: 48.542 ng  
RT: 17.340 min Scan# 21  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

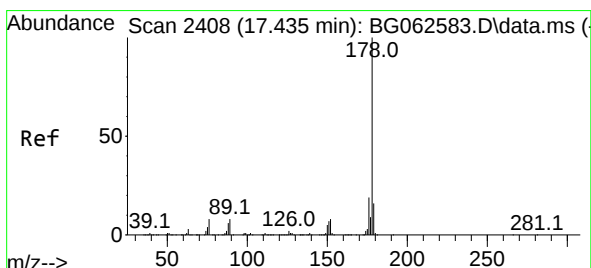
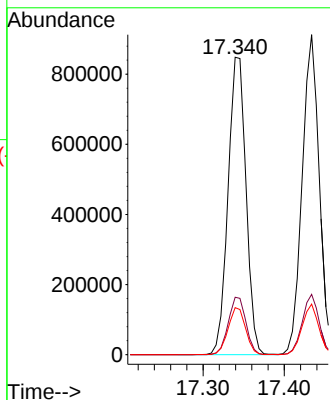
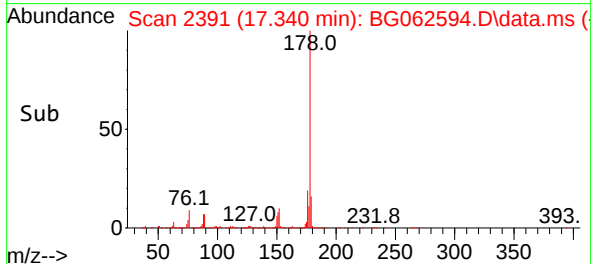
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:178 Resp: 1302458  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.3 22.9  
179 15.8 12.1 18.1

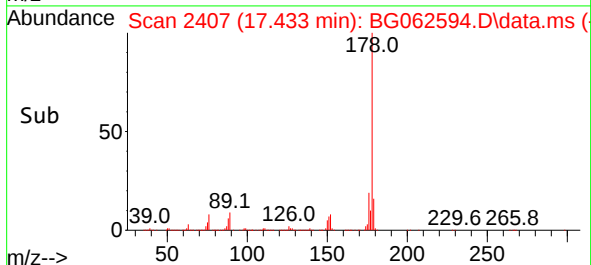
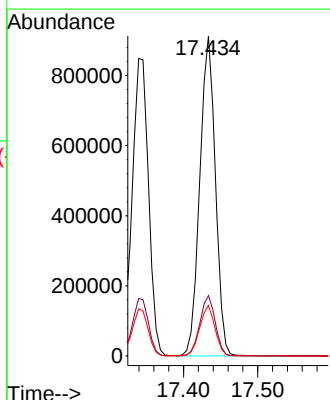
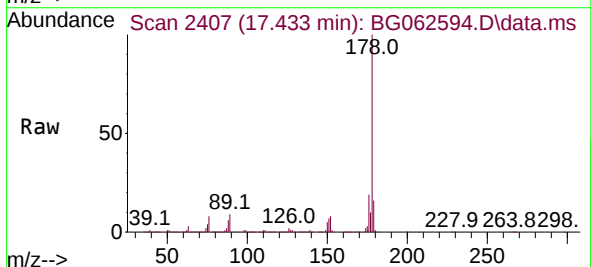
Manual Integrations  
APPROVED

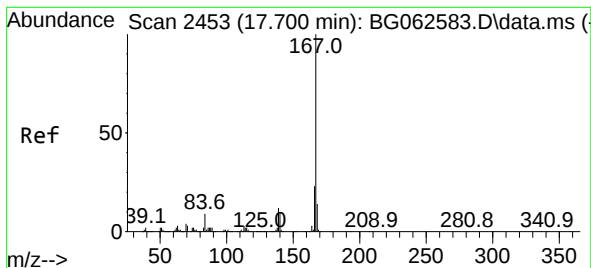
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#72  
Anthracene  
Concen: 50.664 ng  
RT: 17.433 min Scan# 2407  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:178 Resp: 1330058  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.8 12.5 18.7





#73

Carbazole

Concen: 48.371 ng

RT: 17.698 min Scan# 2453

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:167 Resp: 1178138

Ion Ratio Lower Upper

167 100

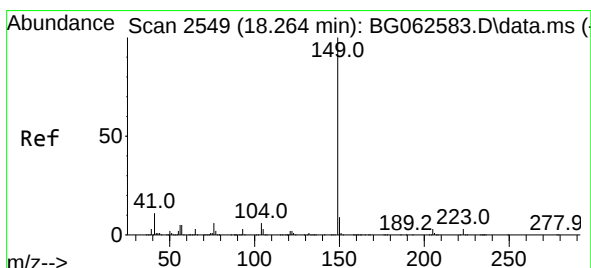
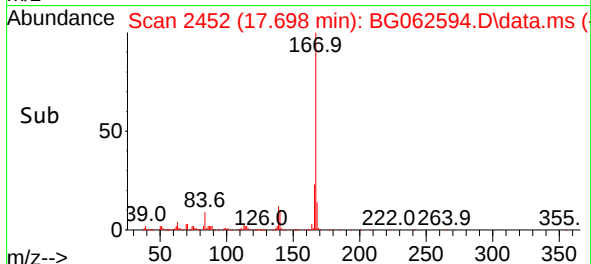
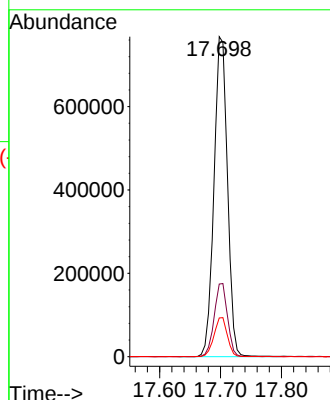
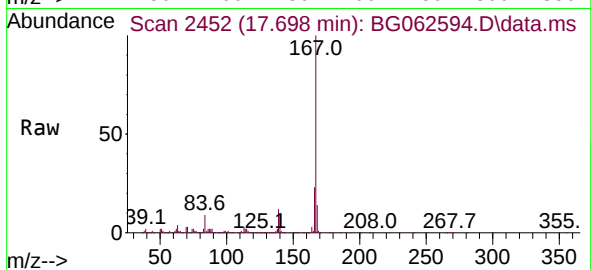
166 22.7 18.6 27.8

139 12.1 9.7 14.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#74

Di-n-butylphthalate

Concen: 64.081 ng

RT: 18.262 min Scan# 2548

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

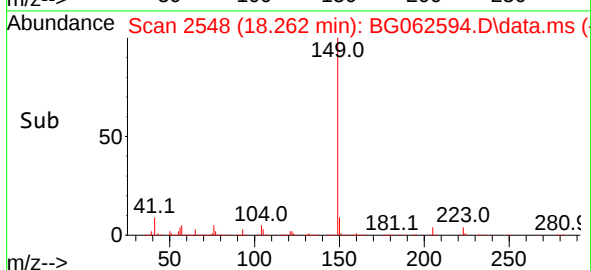
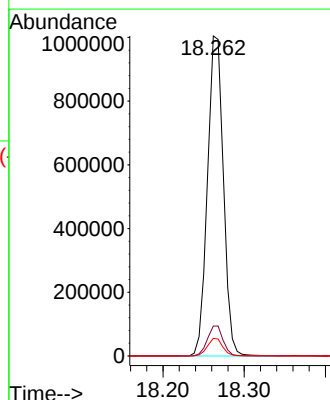
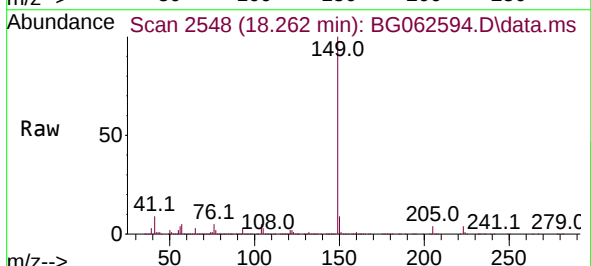
Tgt Ion:149 Resp: 1365465

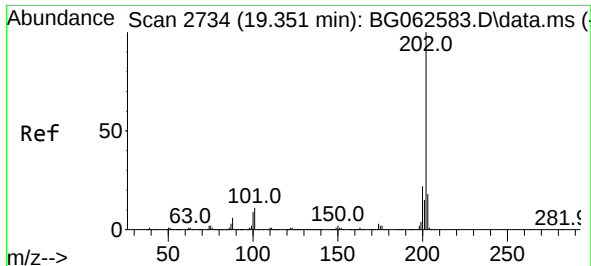
Ion Ratio Lower Upper

149 100

150 9.4 7.4 11.0

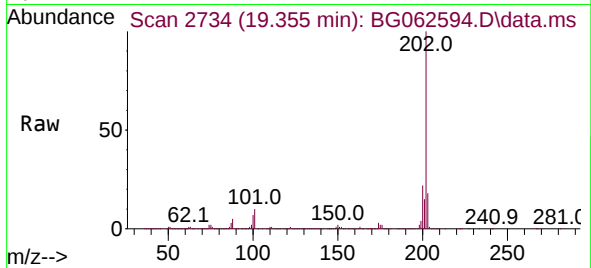
104 5.5 4.8 7.2





#75  
Fluoranthene  
Concen: 46.083 ng  
RT: 19.355 min Scan# 21  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

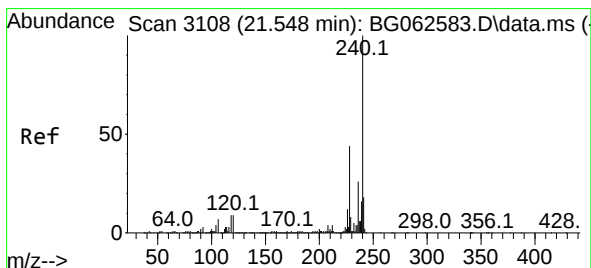
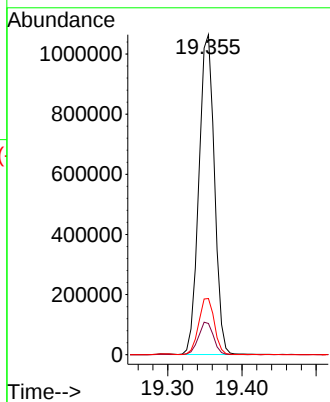
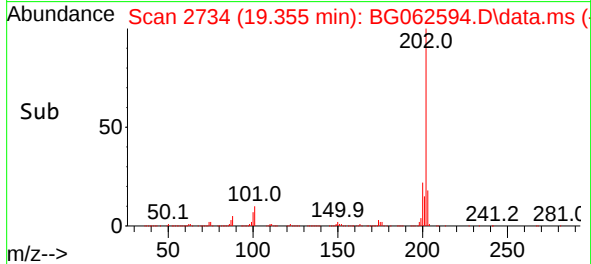
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:202 Resp: 1547914  
Ion Ratio Lower Upper  
202 100  
101 9.8 0.0 30.8  
203 17.6 0.0 37.6

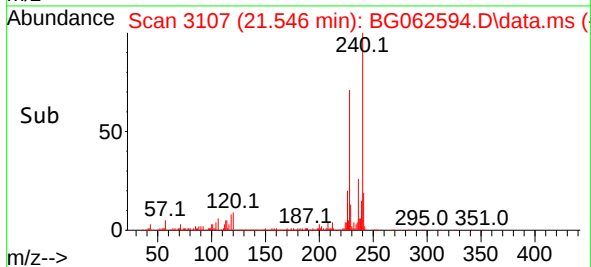
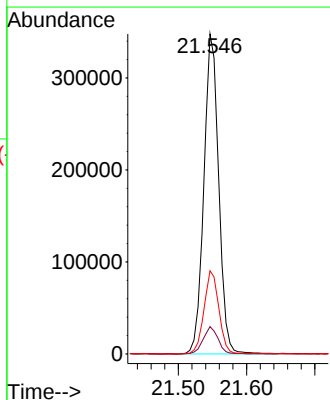
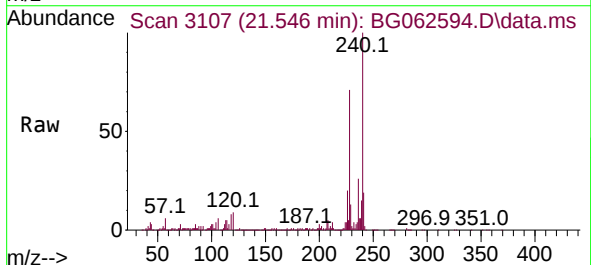
Manual Integrations  
APPROVED

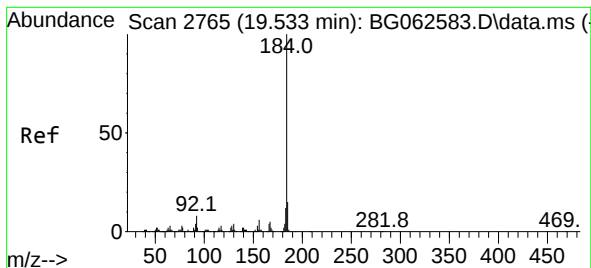
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.546 min Scan# 3107  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

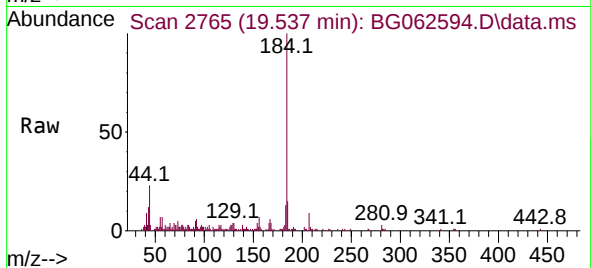
Tgt Ion:240 Resp: 526172  
Ion Ratio Lower Upper  
240 100  
120 8.6 7.4 11.0  
236 26.0 20.5 30.7





#77  
Benzidine  
Concen: 19.373 ng m  
RT: 19.537 min Scan# 2765  
Delta R.T. 0.004 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

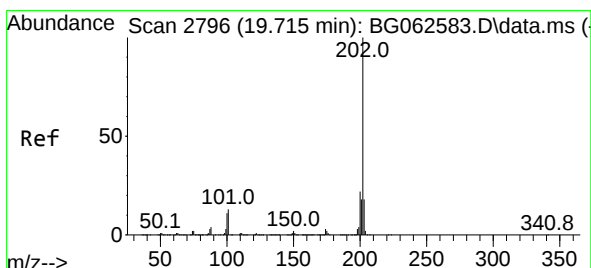
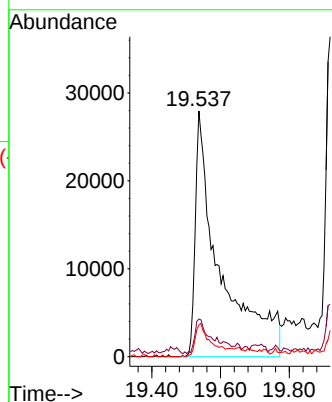
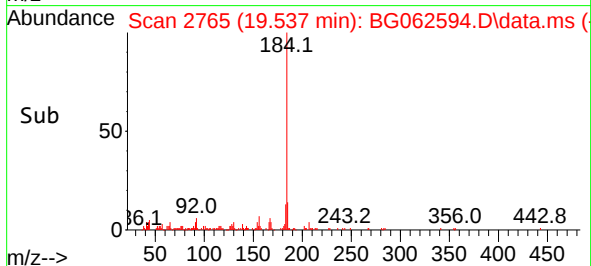
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:184 Resp: 138980  
Ion Ratio Lower Upper  
184 100  
185 15.3 11.8 17.8  
183 12.9 9.3 13.9

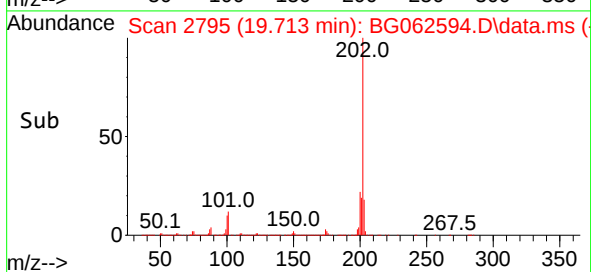
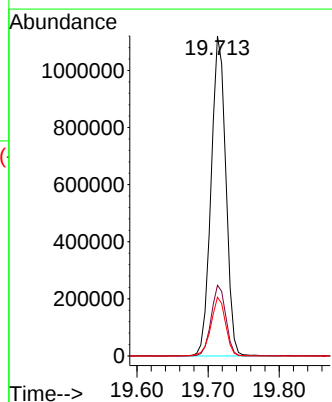
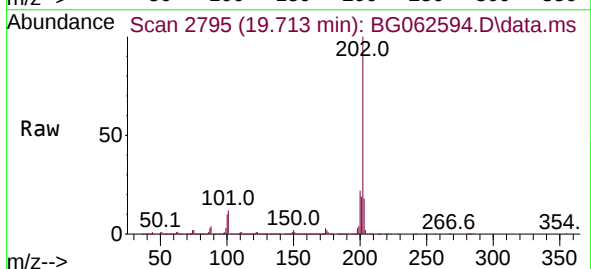
Manual Integrations  
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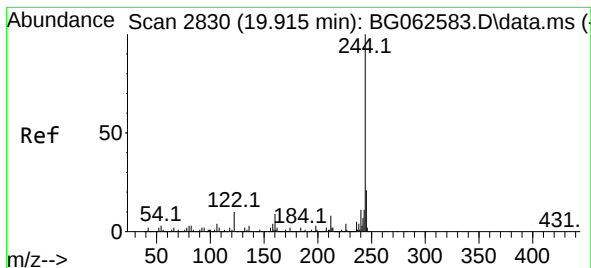
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#78  
Pyrene  
Concen: 48.168 ng  
RT: 19.713 min Scan# 2795  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:202 Resp: 1611401  
Ion Ratio Lower Upper  
202 100  
200 22.1 17.7 26.5  
203 18.4 14.3 21.5





#79

Terphenyl-d14

Concen: 99.054 ng

RT: 19.919 min Scan# 2492

Delta R.T. 0.004 min

Lab File: BG062594.D

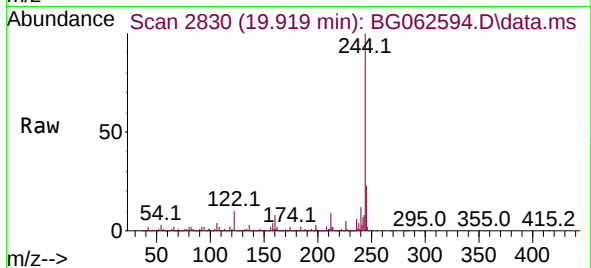
Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS



Tgt Ion:244 Resp: 249284

Ion Ratio Lower Upper

244 100

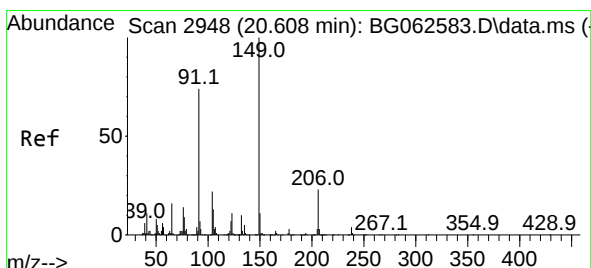
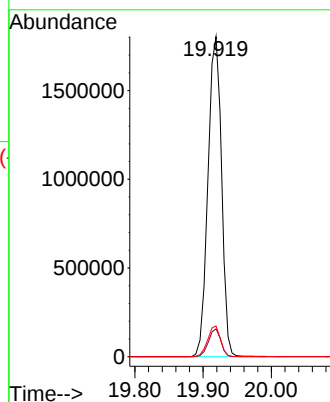
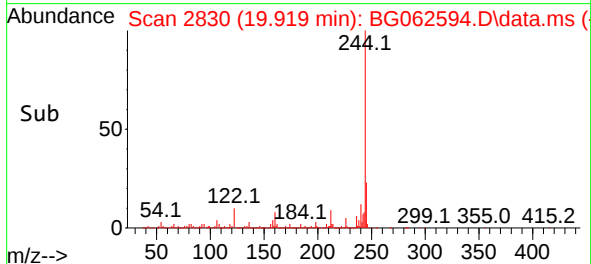
212 8.7 6.7 10.1

122 9.6 8.4 12.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#80

Butylbenzylphthalate

Concen: 63.101 ng

RT: 20.606 min Scan# 2947

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

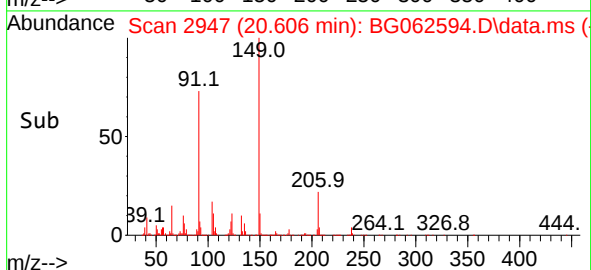
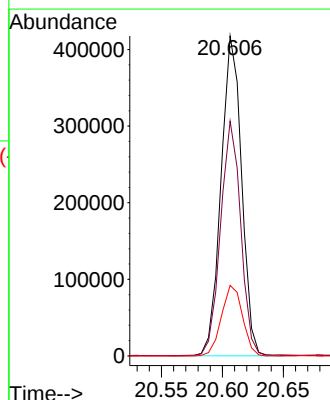
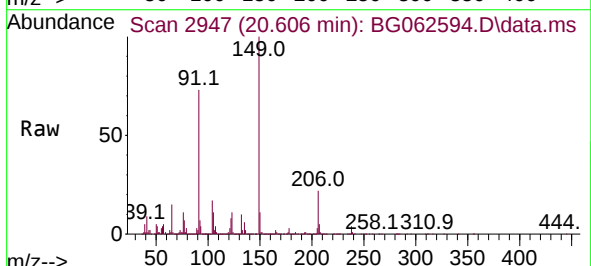
Tgt Ion:149 Resp: 488609

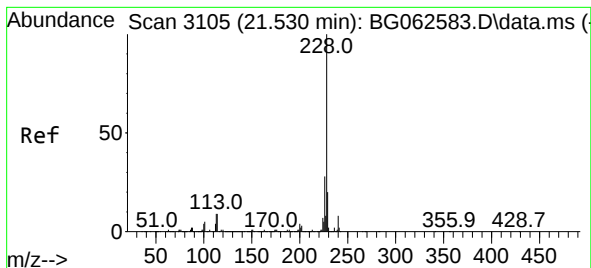
Ion Ratio Lower Upper

149 100

91 73.4 59.0 88.6

206 22.1 18.5 27.7





#81

Benzo(a)anthracene

Concen: 48.767 ng

RT: 21.529 min Scan# 3105

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:228 Resp: 1634210

Ion Ratio Lower Upper

228 100

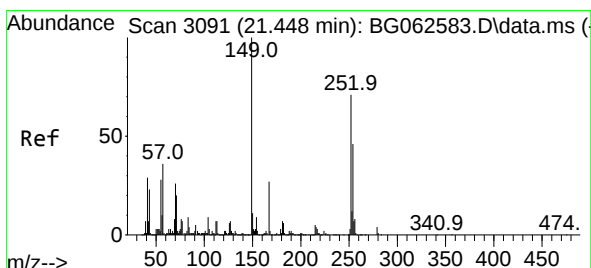
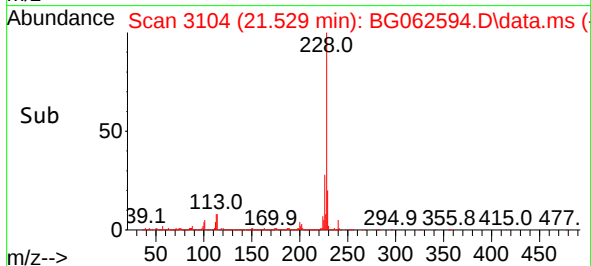
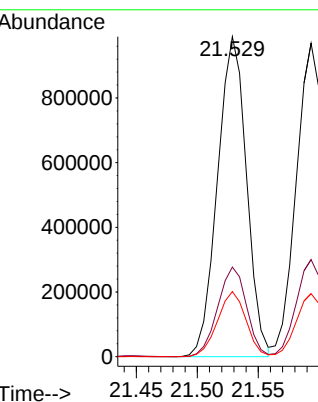
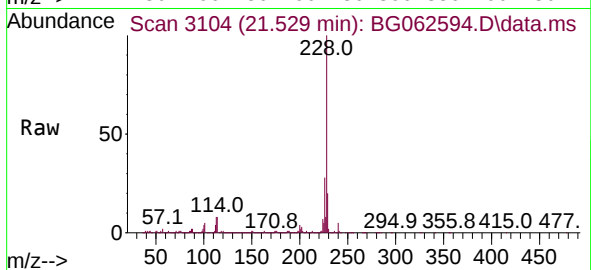
226 28.0 22.6 33.8

229 20.4 16.2 24.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#82

3,3'-Dichlorobenzidine

Concen: 30.413 ng

RT: 21.446 min Scan# 3090

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

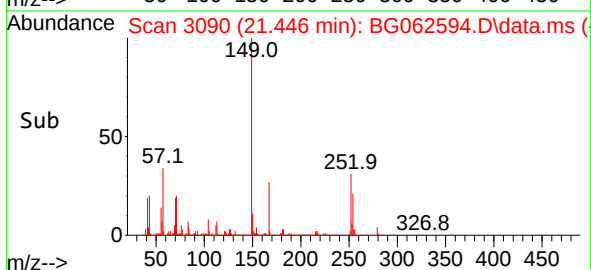
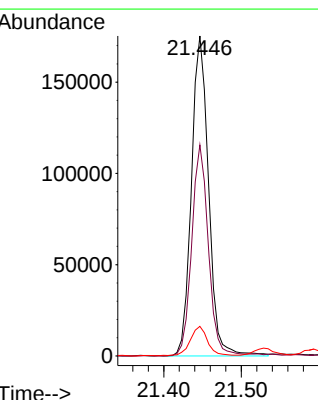
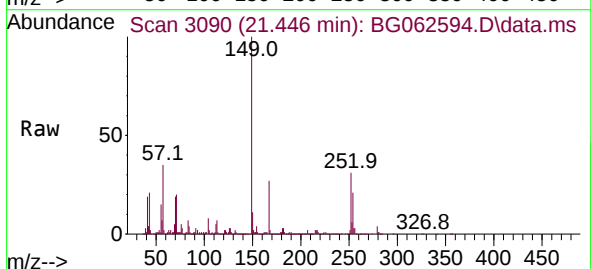
Tgt Ion:252 Resp: 269579

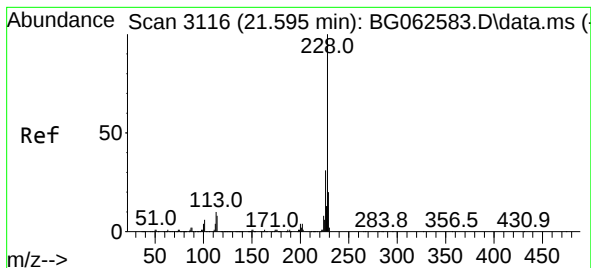
Ion Ratio Lower Upper

252 100

254 66.0 51.4 77.0

126 9.2 7.1 10.7





#83

Chrysene

Concen: 47.850 ng

RT: 21.593 min Scan# 3116

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:228 Resp: 156902

Ion Ratio Lower Upper

228 100

226 31.0 24.6 37.0

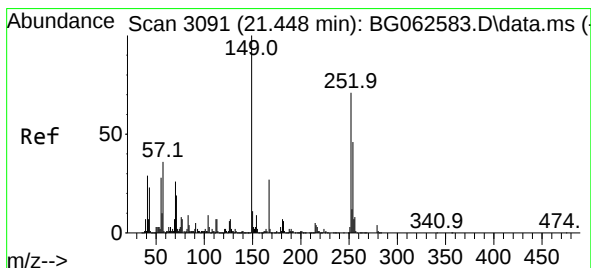
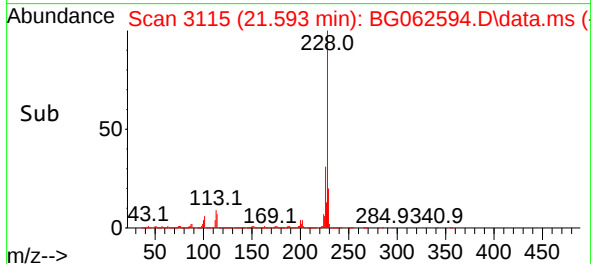
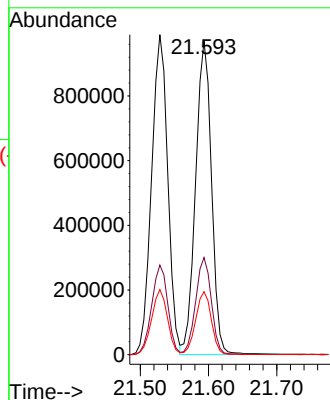
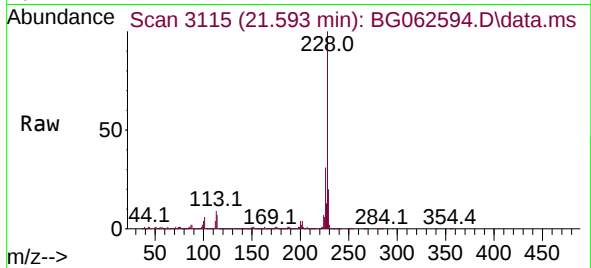
229 20.1 16.1 24.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024

Supervised By :mohammad ahmed 08/30/2024



#84

Bis(2-ethylhexyl)phthalate

Concen: 71.269 ng

RT: 21.446 min Scan# 3090

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

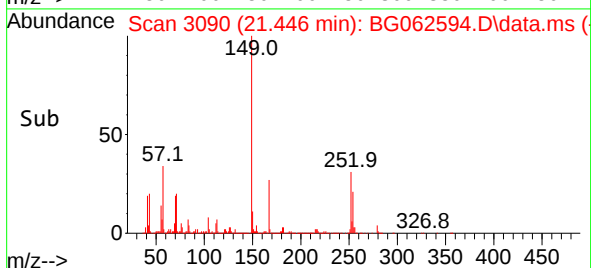
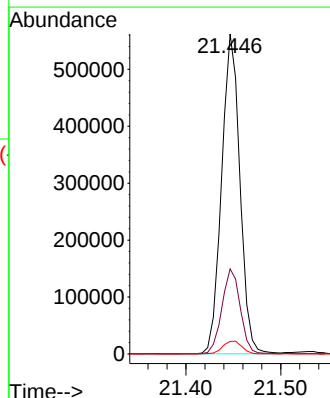
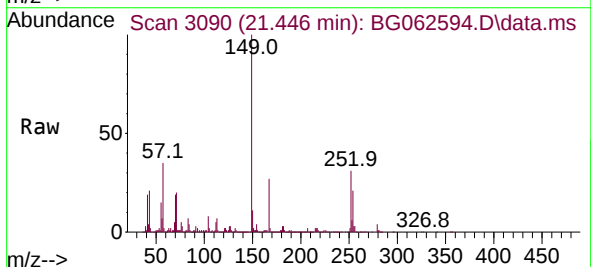
Tgt Ion:149 Resp: 754694

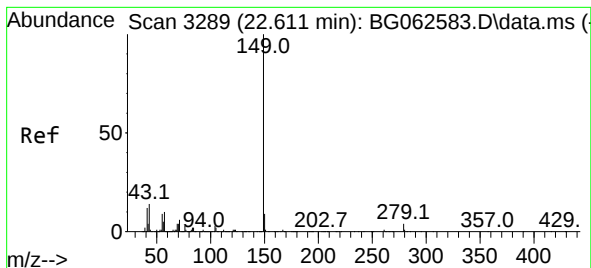
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

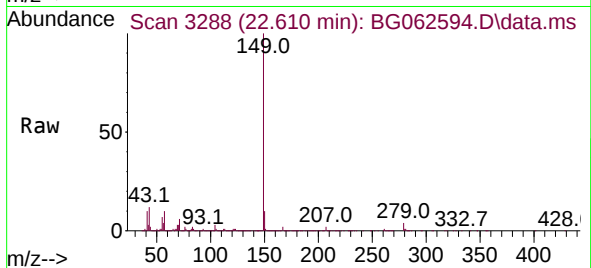
279 3.9 3.2 4.8





#85  
Di-n-octyl phthalate  
Concen: 67.798 ng  
RT: 22.610 min Scan# 31  
Delta R.T. -0.001 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

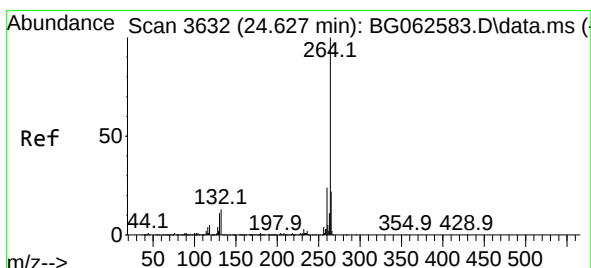
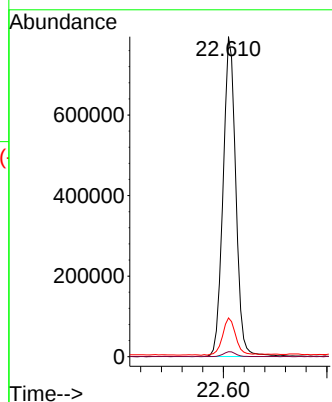
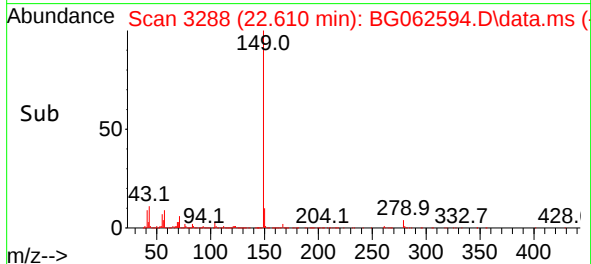
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



Tgt Ion:149 Resp: 1355538  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.2 1.8  
43 12.2 12.7 19.1

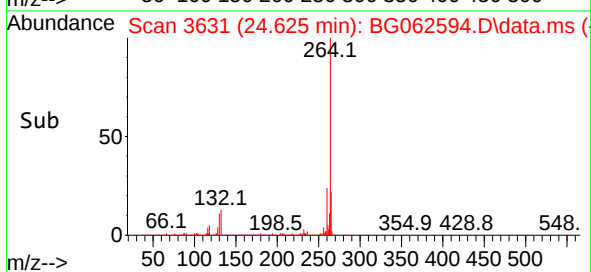
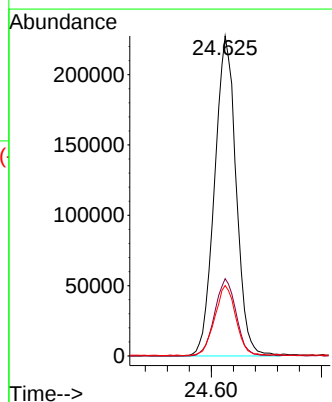
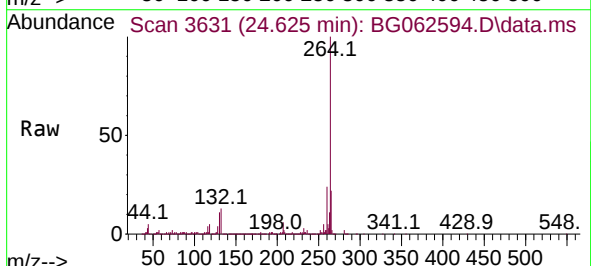
Manual Integrations  
APPROVED

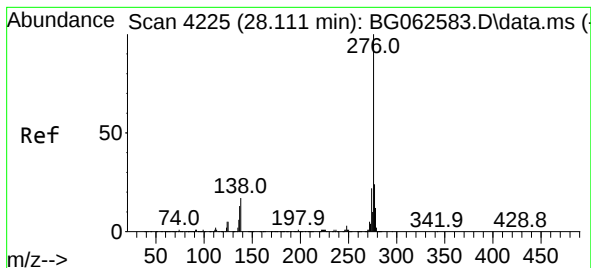
Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.625 min Scan# 3631  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

Tgt Ion:264 Resp: 617742  
Ion Ratio Lower Upper  
264 100  
260 24.1 19.0 28.4  
265 22.0 17.8 26.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 52.211 ng

RT: 28.109 min Scan# 41

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:276 Resp: 203389

Ion Ratio Lower Upper

276 100

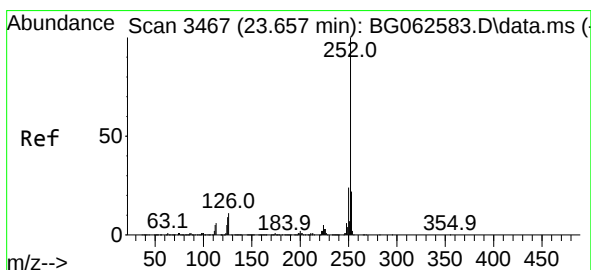
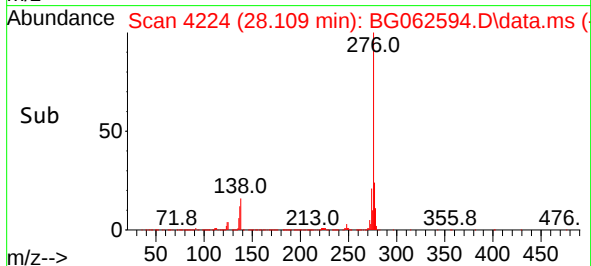
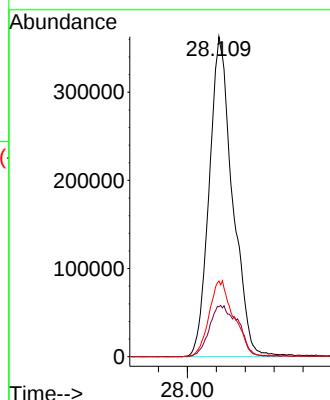
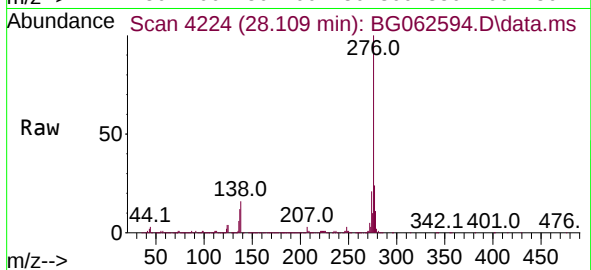
138 19.9 12.6 18.8

277 25.2 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#88

Benzo(b)fluoranthene

Concen: 46.948 ng

RT: 23.656 min Scan# 3466

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

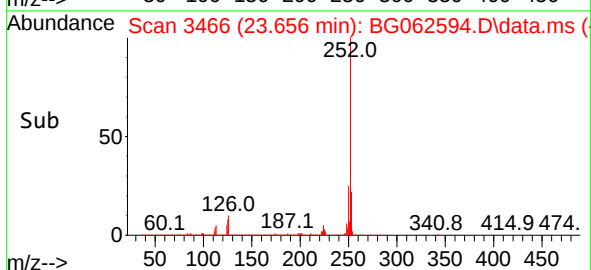
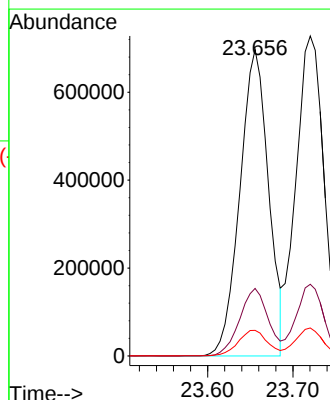
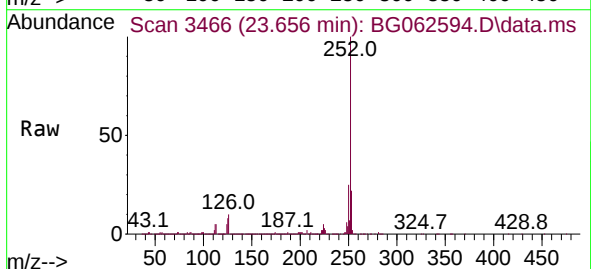
Tgt Ion:252 Resp: 1624407

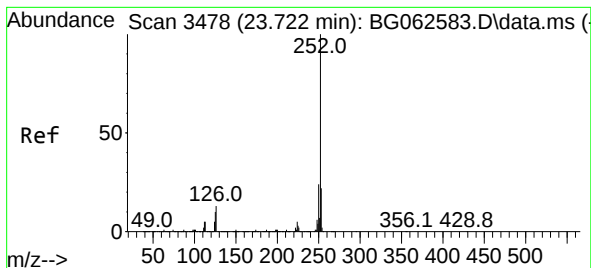
Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

125 8.3 7.3 10.9





#89

Benzo(k)fluoranthene

Concen: 48.697 ng

RT: 23.720 min Scan# 3478

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

Instrument :

BNA\_G

ClientSampleId :

MOO-SOIL-PILEMS

Tgt Ion:252 Resp: 167170

Ion Ratio Lower Upper

252 100

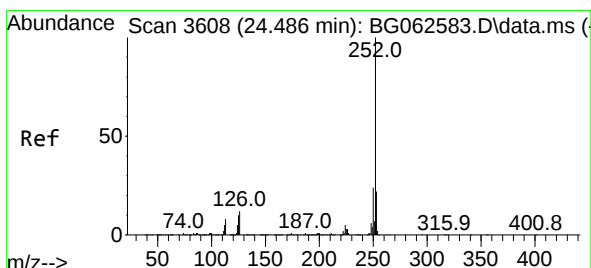
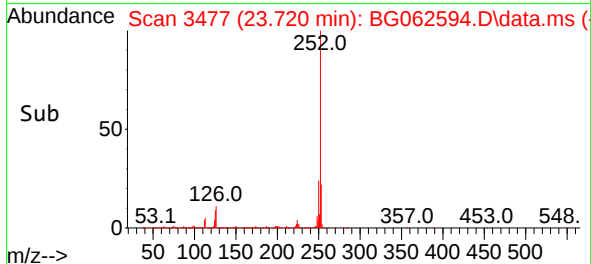
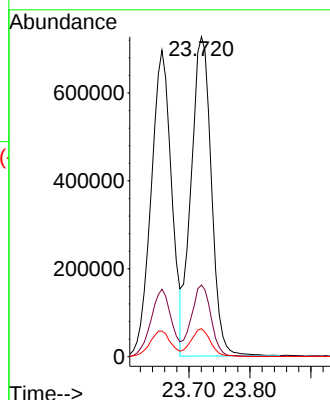
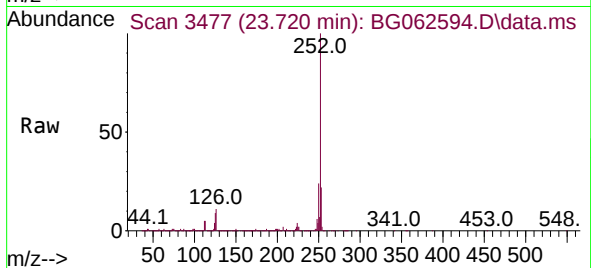
253 22.4 17.7 26.5

125 8.8 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#90

Benzo(a)pyrene

Concen: 51.939 ng

RT: 24.484 min Scan# 3607

Delta R.T. -0.002 min

Lab File: BG062594.D

Acq: 28 Aug 2024 13:53

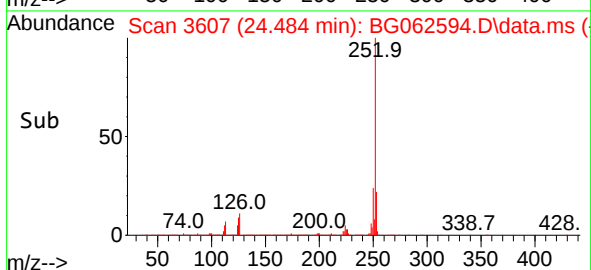
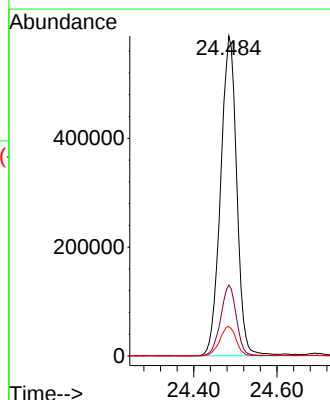
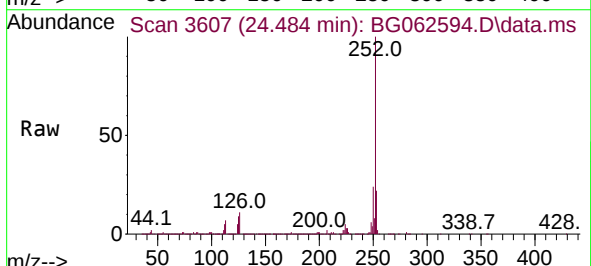
Tgt Ion:252 Resp: 1579832

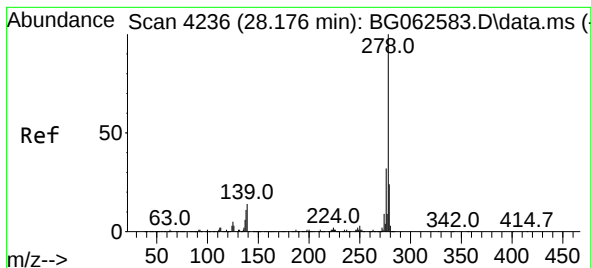
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

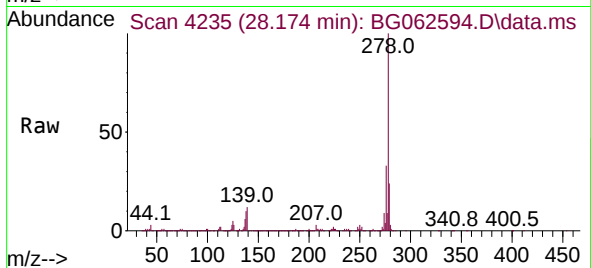
125 9.2 7.9 11.9





#91  
Dibenzo(a,h)anthracene  
Concen: 51.771 ng  
RT: 28.174 min Scan# 41  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53

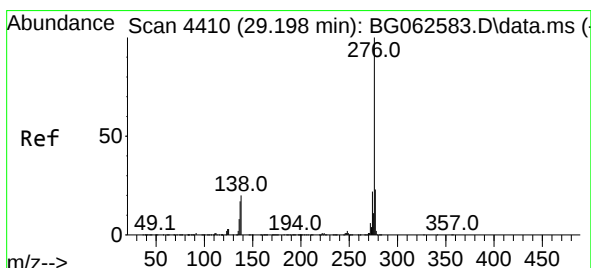
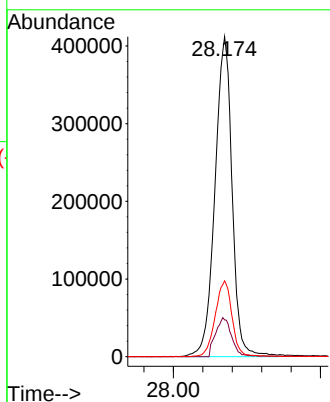
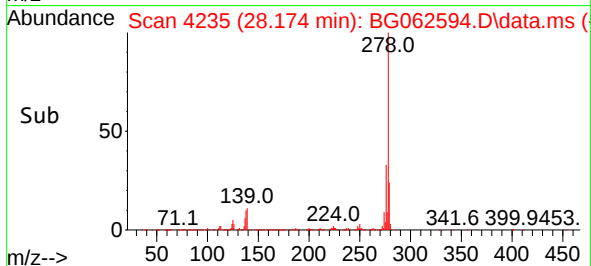
Instrument :  
BNA\_G  
ClientSampleId :  
MOO-SOIL-PILEMS



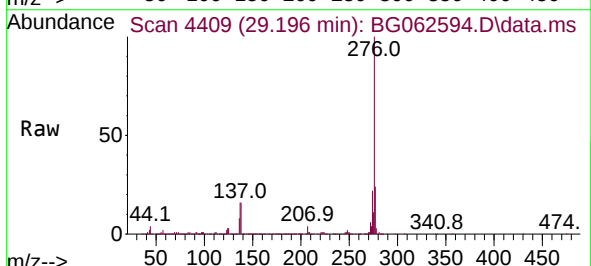
Tgt Ion:278 Resp: 166666  
Ion Ratio Lower Upper  
278 100  
139 11.5 11.1 16.7  
279 23.7 19.2 28.8

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 08/29/2024  
Supervised By :mohammad ahmed 08/30/2024



#92  
Benzo(g,h,i)perylene  
Concen: 47.207 ng  
RT: 29.196 min Scan# 4409  
Delta R.T. -0.002 min  
Lab File: BG062594.D  
Acq: 28 Aug 2024 13:53



Tgt Ion:276 Resp: 1544999  
Ion Ratio Lower Upper  
276 100  
277 24.0 18.8 28.2  
138 16.3 15.8 23.6

