

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD103123\  
 Data File : VD077458.D  
 Acq On : 31 Oct 2023 13:58  
 Operator : JC/SY  
 Sample : 04696-03 2.5 ppb  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-QT4-2023-07 2.5PPB

Quant Time: Nov 01 06:06:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 11/01/2023  
 Supervised By : Mahesh Dadoda 11/01/2023

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 254370              | 50.000 | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 450079              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 396030              | 50.000 | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 178070              | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 182189              | 50.651 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 101.300% |        |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 159330              | 51.219 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 102.440% |        |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 629834              | 52.126 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 104.260% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 203087              | 49.903 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 99.800%  |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.928          | 85   | 5289                | 2.579  | ug/l   | 97       |
| 3) Chloromethane             | 2.152          | 50   | 8184                | 2.513  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.287          | 62   | 7662                | 2.413  | ug/l   | 91       |
| 5) Bromomethane              | 2.699          | 94   | 5552                | 3.337  | ug/l   | 90       |
| 6) Chloroethane              | 2.840          | 64   | 5251                | 2.456  | ug/l # | 61       |
| 7) Trichlorofluoromethane    | 3.181          | 101  | 10203               | 2.294  | ug/l   | 91       |
| 8) Diethyl Ether             | 3.593          | 74   | 3896                | 2.437  | ug/l # | 26       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 6387                | 2.379  | ug/l # | 86       |
| 10) Methyl Iodide            | 4.175          | 142  | 6162                | 4.851  | ug/l # | 82       |
| 11) Tert butyl alcohol       | 5.046          | 59   | 5335                | 18.724 | ug/l # | 88       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 6381                | 2.511  | ug/l # | 73       |
| 13) Acrolein                 | 3.799          | 56   | 5011                | 13.337 | ug/l   | 92       |
| 14) Allyl chloride           | 4.558          | 41   | 14228               | 2.321  | ug/l # | 74       |
| 15) Acrylonitrile            | 5.269          | 53   | 9732                | 11.263 | ug/l   | 91       |
| 16) Acetone                  | 4.028          | 43   | 17083               | 17.948 | ug/l # | 74       |
| 17) Carbon Disulfide         | 4.269          | 76   | 11998               | 5.172  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.575          | 43   | 7245                | 2.087  | ug/l # | 73       |
| 19) Methyl tert-butyl Ether  | 5.328          | 73   | 17943               | 2.249  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.810          | 84   | 18852               | 2.996  | ug/l # | 59       |
| 21) trans-1,2-Dichloroethene | 5.328          | 96   | 6779                | 2.290  | ug/l   | 84       |
| 22) Diisopropyl ether        | 6.216          | 45   | 31270               | 2.400  | ug/l # | 85       |
| 23) Vinyl Acetate            | 6.152          | 43   | 64056m              | 11.394 | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.122          | 63   | 16268               | 2.406  | ug/l   | 97       |
| 25) 2-Butanone               | 7.093          | 43   | 23439               | 18.463 | ug/l # | 60       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 18132               | 3.026  | ug/l   | 84       |
| 27) cis-1,2-Dichloroethene   | 7.069          | 96   | 9537                | 2.601  | ug/l   | 55       |
| 28) Bromochloromethane       | 7.434          | 49   | 6768                | 4.221  | ug/l # | 51       |
| 29) Tetrahydrofuran          | 7.457          | 42   | 8930                | 11.860 | ug/l # | 75       |
| 30) Chloroform               | 7.604          | 83   | 14515               | 2.299  | ug/l   | 97       |
| 31) Cyclohexane              | 7.881          | 56   | 18486               | 3.288  | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 12209               | 2.347  | ug/l # | 92       |
| 36) 1,1-Dichloropropene      | 8.016          | 75   | 10834               | 2.349  | ug/l   | 91       |
| 37) Ethyl Acetate            | 7.169          | 43   | 7358                | 2.780  | ug/l # | 68       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 10576               | 2.433  | ug/l # | 88       |
| 39) Methylcyclohexane        | 9.269          | 83   | 10643               | 2.022  | ug/l # | 71       |
| 40) Benzene                  | 8.251          | 78   | 31500               | 2.395  | ug/l   | 96       |

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 Sample : 04696-03 2.5 ppb  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 MDL-SOIL-QT4-2023-07 2.5PPB

Quant Time: Nov 01 06:06:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 04:19:17 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/01/2023  
 Supervised By : Mahesh Dadoda 11/01/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.410  | 41   | 3683     | 2.175  | ug/l # | 81       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 9854     | 2.366  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.363  | 43   | 11661    | 2.135  | ug/l # | 83       |
| 44) Trichloroethene           | 9.034  | 130  | 6840     | 2.123  | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 9119     | 2.355  | ug/l   | 93       |
| 46) Dibromomethane            | 9.398  | 93   | 4284     | 2.299  | ug/l # | 85       |
| 47) Bromodichloromethane      | 9.581  | 83   | 11606    | 2.356  | ug/l   | 91       |
| 48) Methyl methacrylate       | 9.381  | 41   | 5550     | 2.129  | ug/l # | 72       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 927      | 46.298 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 29887    | 11.116 | ug/l # | 84       |
| 52) Toluene                   | 10.334 | 92   | 18962    | 2.365  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 11821    | 2.267  | ug/l # | 87       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 12873    | 2.145  | ug/l # | 66       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 5950     | 2.393  | ug/l # | 88       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 8301     | 2.246  | ug/l # | 53       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 10301    | 2.217  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 17122    | 9.253  | ug/l   | 91       |
| 59) 2-Hexanone                | 10.928 | 43   | 22405    | 11.312 | ug/l   | 77       |
| 60) Dibromochloromethane      | 11.075 | 129  | 6530     | 2.184  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.175 | 107  | 5263     | 2.236  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.804 | 164  | 5445     | 2.160  | ug/l   | 90       |
| 65) Chlorobenzene             | 11.610 | 112  | 18730    | 2.257  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 6929     | 2.210  | ug/l   | 91       |
| 67) Ethyl Benzene             | 11.687 | 91   | 37771    | 2.366  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.792 | 106  | 26020    | 4.514  | ug/l # | 74       |
| 69) o-Xylene                  | 12.122 | 106  | 12346    | 2.236  | ug/l   | 73       |
| 70) Styrene                   | 12.134 | 104  | 22868    | 2.401  | ug/l # | 90       |
| 71) Bromoform                 | 12.298 | 173  | 3662     | 2.107  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.422 | 105  | 34699    | 2.390  | ug/l   | 91       |
| 74) N-amyl acetate            | 12.234 | 43   | 12500    | 2.431  | ug/l # | 79       |
| 75) 1,1,2,2-Tetrachloroethane | 12.669 | 83   | 6902     | 2.425  | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 4498m    | 2.075  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 7387     | 2.312  | ug/l   | 66       |
| 78) n-propylbenzene           | 12.763 | 91   | 45185    | 2.451  | ug/l   | 92       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 24812    | 2.377  | ug/l   | 87       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 28381    | 2.330  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 25481    | 2.344  | ug/l   | 86       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 23250    | 2.270  | ug/l   | 84       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 28262    | 2.335  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 37408    | 2.387  | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 30351    | 2.383  | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 14876    | 2.368  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 15648m   | 2.493  | ug/l   |          |
| 89) n-Butylbenzene            | 13.786 | 91   | 33018    | 2.494  | ug/l   | 95       |
| 90) Hexachloroethane          | 14.051 | 117  | 6433     | 2.468  | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 12865    | 2.330  | ug/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 1265     | 2.639  | ug/l   | 64       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 8126     | 2.143  | ug/l   | 90       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 4424     | 2.163  | ug/l   | 93       |
| 95) Naphthalene               | 15.328 | 128  | 16862    | 2.331  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 7211     | 2.203  | ug/l   | 99       |

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Sample : 04696-03 2.5 ppb  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
MDL-SOIL-QT4-2023-07 2.5PPB

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/01/2023  
Supervised By :Mahesh Dadoda 11/01/2023

Quant Time: Nov 01 06:06:33 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 31 04:19:17 2023  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

