

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD103023\  
 Data File : VD077437.D  
 Acq On : 30 Oct 2023 09:11  
 Operator : JC/SY  
 Sample : VSTDICC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/31/2023  
 Supervised By : Mahesh Dadoda 10/31/2023

Quant Time: Oct 31 03:53:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 03:41:55 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 379240     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 8.775          | 114  | 659305     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.587         | 117  | 592534     | 50.000  | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4   | 13.522         | 152  | 270074     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 27098      | 5.053   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 10.100% | #      |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 22861      | 5.017   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.040% | #      |          |
| 50) Toluene-d8               | 10.269         | 98   | 86787      | 4.903   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 9.800%  | #      |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 31080      | 5.213   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 10.420% | #      |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 15567      | 5.091   | ug/l   | 99       |
| 3) Chloromethane             | 2.152          | 50   | 22027      | 4.537   | ug/l   | 90       |
| 4) Vinyl Chloride            | 2.287          | 62   | 19901      | 4.204   | ug/l   | 98       |
| 5) Bromomethane              | 2.699          | 94   | 10846      | 4.372   | ug/l   | 97       |
| 6) Chloroethane              | 2.840          | 64   | 15103      | 4.738   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.181          | 101  | 29569      | 4.460   | ug/l   | 93       |
| 8) Diethyl Ether             | 3.599          | 74   | 11018      | 4.623   | ug/l # | 41       |
| 9) 1,1,2-Trichlorotrifluo... | 3.964          | 101  | 18661      | 4.662   | ug/l # | 91       |
| 10) Methyl Iodide            | 4.164          | 142  | 15216      | 5.969   | ug/l   | 90       |
| 11) Tert butyl alcohol       | 5.052          | 59   | 13386      | 31.512  | ug/l # | 81       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 17475      | 4.612   | ug/l # | 69       |
| 13) Acrolein                 | 3.799          | 56   | 14029      | 25.044  | ug/l # | 79       |
| 14) Allyl chloride           | 4.564          | 41   | 38253      | 4.185   | ug/l # | 80       |
| 15) Acrylonitrile            | 5.252          | 53   | 31639      | 24.559  | ug/l   | 93       |
| 16) Acetone                  | 4.022          | 43   | 37605      | 26.501  | ug/l # | 78       |
| 17) Carbon Disulfide         | 4.275          | 76   | 36034      | 6.608   | ug/l   | 96       |
| 18) Methyl Acetate           | 4.564          | 43   | 26057      | 5.034   | ug/l # | 77       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 59318      | 4.987   | ug/l # | 90       |
| 20) Methylene Chloride       | 4.811          | 84   | 38039      | 4.952   | ug/l # | 65       |
| 21) trans-1,2-Dichloroethene | 5.311          | 96   | 20892      | 4.734   | ug/l # | 75       |
| 22) Diisopropyl ether        | 6.216          | 45   | 92827      | 4.778   | ug/l # | 88       |
| 23) Vinyl Acetate            | 6.158          | 43   | 210285m    | 24.886  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 48153      | 4.777   | ug/l   | 95       |
| 25) 2-Butanone               | 7.087          | 43   | 52209      | 27.584  | ug/l # | 73       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 47186      | 5.282   | ug/l   | 86       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 25987      | 4.753   | ug/l   | 62       |
| 28) Bromochloromethane       | 7.422          | 49   | 16820      | 5.631   | ug/l # | 1        |
| 29) Tetrahydrofuran          | 7.446          | 42   | 29288      | 26.090  | ug/l # | 70       |
| 30) Chloroform               | 7.599          | 83   | 44671      | 4.746   | ug/l   | 90       |
| 31) Cyclohexane              | 7.881          | 56   | 42827      | 5.109   | ug/l # | 72       |
| 32) 1,1,1-Trichloroethane    | 7.799          | 97   | 35964      | 4.638   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 30127      | 4.459   | ug/l   | 89       |
| 37) Ethyl Acetate            | 7.169          | 43   | 20241      | 5.220   | ug/l # | 89       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 30576      | 4.803   | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.275          | 83   | 35062      | 4.548   | ug/l # | 80       |
| 40) Benzene                  | 8.252          | 78   | 89468      | 4.644   | ug/l   | 98       |

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 Sample : VSTDICC005  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 10/31/2023  
 Supervised By : Mahesh Dadoda 10/31/2023

Quant Time: Oct 31 03:53:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 31 03:41:55 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.399  | 41   | 12837    | 5.174   | ug/l # | 78       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 30005    | 4.917   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 40563    | 5.069   | ug/l # | 82       |
| 44) Trichloroethene           | 9.028  | 130  | 22171    | 4.698   | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 9.305  | 63   | 26564    | 4.683   | ug/l   | 98       |
| 46) Dibromomethane            | 9.393  | 93   | 13833    | 5.068   | ug/l   | 88       |
| 47) Bromodichloromethane      | 9.587  | 83   | 35153    | 4.872   | ug/l # | 94       |
| 48) Methyl methacrylate       | 9.381  | 41   | 19044    | 4.986   | ug/l # | 68       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 3008     | 102.557 | ug/l # | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 103697   | 26.330  | ug/l # | 79       |
| 52) Toluene                   | 10.334 | 92   | 54670    | 4.655   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 36999    | 4.843   | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 41783    | 4.753   | ug/l # | 74       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 19066    | 5.235   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 28022    | 5.175   | ug/l # | 61       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 33088    | 4.861   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 66768    | 24.631  | ug/l # | 85       |
| 59) 2-Hexanone                | 10.922 | 43   | 75154    | 25.904  | ug/l   | 80       |
| 60) Dibromochloromethane      | 11.075 | 129  | 22215    | 5.073   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 17450    | 5.060   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.810 | 164  | 17605    | 4.667   | ug/l   | 92       |
| 65) Chlorobenzene             | 11.610 | 112  | 58689    | 4.728   | ug/l   | 94       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 23403    | 4.989   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.687 | 91   | 111410   | 4.664   | ug/l   | 94       |
| 68) m/p-Xylenes               | 11.793 | 106  | 80289    | 9.309   | ug/l   | 78       |
| 69) o-Xylene                  | 12.122 | 106  | 37689    | 4.562   | ug/l   | 74       |
| 70) Styrene                   | 12.140 | 104  | 68141    | 4.781   | ug/l # | 90       |
| 71) Bromoform                 | 12.304 | 173  | 13609    | 5.233   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 102635   | 4.661   | ug/l   | 95       |
| 74) N-amyl acetate            | 12.234 | 43   | 39466    | 5.060   | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 21305    | 4.936   | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 17174m   | 4.759   | ug/l   |          |
| 77) Bromobenzene              | 12.704 | 156  | 23778    | 4.906   | ug/l   | 71       |
| 78) n-propylbenzene           | 12.763 | 91   | 131355   | 4.698   | ug/l   | 93       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 74651    | 4.716   | ug/l   | 89       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 89240    | 4.830   | ug/l   | 88       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 8790     | 5.165   | ug/l # | 83       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 77809    | 4.719   | ug/l   | 91       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 71943    | 4.631   | ug/l   | 87       |
| 84) 1,2,4-Trimethylbenzene    | 13.216 | 105  | 88375    | 4.815   | ug/l   | 91       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 112618   | 4.738   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 90703    | 4.695   | ug/l   | 90       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 45509    | 4.777   | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 46751    | 4.912   | ug/l   | 92       |
| 89) n-Butylbenzene            | 13.793 | 91   | 94131    | 4.688   | ug/l   | 96       |
| 90) Hexachloroethane          | 14.057 | 117  | 18820    | 4.761   | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 40819    | 4.875   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 4059     | 5.582   | ug/l   | 69       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 26879    | 4.673   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.210 | 225  | 13915    | 4.485   | ug/l   | 97       |
| 95) Naphthalene               | 15.334 | 128  | 53480    | 4.874   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 24427    | 4.920   | ug/l   | 99       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :John Carlone 10/31/2023  
Supervised By :Mahesh Dadoda 10/31/2023

Quant Time: Oct 31 03:53:11 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D103023S.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 31 03:41:55 2023  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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