

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD111824\  
 Data File : VD080058.D  
 Acq On : 18 Nov 2024 09:51  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Nov 19 04:42:45 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D111524S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 15 16:25:47 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Romaben Patel 11/19/2024  
 Supervised By :Mahesh Dadoda 11/19/2024

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 175845     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 262205     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 246582     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 138959     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 90463      | 49.966   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.940%  |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 94082      | 53.913   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 107.820% |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 362288     | 55.083   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 110.160% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 122559     | 56.796   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 113.600% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 72174      | 51.140   | ug/l   | 98       |
| 3) Chloromethane             | 2.152          | 50   | 46527      | 44.830   | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.287          | 62   | 54184      | 45.731   | ug/l   | 97       |
| 5) Bromomethane              | 2.693          | 94   | 56553      | 45.537   | ug/l   | 97       |
| 6) Chloroethane              | 2.840          | 64   | 36206      | 42.750   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 149797     | 51.474   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.599          | 74   | 42441      | 49.958   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.969          | 101  | 101018     | 55.567   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.163          | 142  | 114469     | 50.870   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.058          | 59   | 23131      | 245.505  | ug/l # | 83       |
| 12) 1,1-Dichloroethene       | 3.946          | 96   | 94809      | 52.033   | ug/l   | 98       |
| 13) Acrolein                 | 3.799          | 56   | 34993      | 193.560  | ug/l   | 99       |
| 14) Allyl chloride           | 4.563          | 41   | 123500     | 47.816   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.258          | 53   | 97655      | 258.754  | ug/l   | 99       |
| 16) Acetone                  | 4.022          | 43   | 119781     | 304.921  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.269          | 76   | 306403     | 52.223   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 44231      | 50.769   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 200071     | 53.822   | ug/l   | 95       |
| 20) Methylene Chloride       | 4.805          | 84   | 106824     | 50.706   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 107672     | 53.453   | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.216          | 45   | 274840     | 52.549   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.157          | 43   | 792020     | 264.312  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.110          | 63   | 176897     | 50.853   | ug/l   | 98       |
| 25) 2-Butanone               | 7.081          | 43   | 141021     | 274.715  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.081          | 77   | 154180     | 50.990   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 119911     | 51.873   | ug/l   | 96       |
| 28) Bromochloromethane       | 7.428          | 49   | 71856      | 46.417   | ug/l   | 86       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 77873      | 276.941  | ug/l   | 96       |
| 30) Chloroform               | 7.599          | 83   | 196141     | 53.520   | ug/l   | 98       |
| 31) Cyclohexane              | 7.875          | 56   | 149798     | 50.809   | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 167583     | 53.434   | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 137895     | 57.789   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.169          | 43   | 55961      | 54.562   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 149546     | 57.362   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.275          | 83   | 169555     | 59.683   | ug/l   | 99       |
| 40) Benzene                  | 8.251          | 78   | 412833     | 55.505   | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Nov 15 16:25:47 2024  
 Response via : Initial Calibration

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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.404  | 41   | 32188    | 58.153   | ug/l # | 88       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 108671   | 56.456   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 104260   | 56.077   | ug/l   | 98       |
| 44) Trichloroethene           | 9.028  | 130  | 105658   | 54.897   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 99745    | 55.804   | ug/l   | 99       |
| 46) Dibromomethane            | 9.398  | 93   | 59252    | 56.992   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.581  | 83   | 147223   | 56.575   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.381  | 41   | 50991    | 57.448   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 12518    | 1312.552 | ug/l   | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 290646   | 308.122  | ug/l   | 98       |
| 52) Toluene                   | 10.334 | 92   | 272513   | 58.959   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 132147   | 56.966   | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 156470   | 56.974   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 78335    | 56.953   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 97292    | 60.830   | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 129067   | 57.683   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 182651   | 301.942  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.922 | 43   | 225753   | 325.372  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.069 | 129  | 105481   | 59.580   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.175 | 107  | 76497    | 58.988   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.810 | 164  | 98994    | 56.375   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.610 | 112  | 294337   | 54.721   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 105301   | 56.240   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.681 | 91   | 521593   | 57.792   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.792 | 106  | 411810   | 116.753  | ug/l   | 100      |
| 69) o-Xylene                  | 12.122 | 106  | 186146   | 58.710   | ug/l   | 95       |
| 70) Styrene                   | 12.134 | 104  | 333504   | 58.932   | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 64595    | 58.512   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.422 | 105  | 494625   | 55.196   | ug/l   | 99       |
| 74) N-ethyl acetate           | 12.234 | 43   | 107015   | 54.198   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 93217    | 54.127   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 62314m   | 50.784   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 127393   | 54.702   | ug/l   | 95       |
| 78) n-propylbenzene           | 12.763 | 91   | 622903   | 56.246   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.845 | 91   | 350353   | 53.946   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 424889   | 56.023   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 33885    | 56.519   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 379418   | 54.649   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.163 | 119  | 368273   | 56.067   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 433821   | 56.940   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.345 | 105  | 549366   | 56.582   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.457 | 119  | 473074   | 57.644   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 255878   | 54.259   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 253429   | 53.508   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.786 | 91   | 440006   | 56.989   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.051 | 117  | 94669    | 53.810   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.828 | 146  | 221390   | 53.838   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 13498    | 51.831   | ug/l   | 80       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 155321   | 60.235   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 86408    | 62.001   | ug/l   | 98       |
| 95) Naphthalene               | 15.333 | 128  | 264830   | 60.465   | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 128996   | 56.965   | ug/l   | 100      |

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

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