

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102720\  
 Data File : VD067403.D  
 Acq On : 27 Oct 2020 11:12  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 10/28/2020 11:45:19 AM

Quant Time: Oct 28 00:50:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 1) Pentafluorobenzene         | 7.98   | 168  | 329364   | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.87   | 114  | 465900   | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.65  | 117  | 428144   | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.58  | 152  | 215034   | 50.00   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.33   | 65   | 148424   | 44.98   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 89.96% |          |
| 35) Dibromofluoromethane      | 7.91   | 113  | 153593   | 49.54   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 99.08% |          |
| 50) Toluene-d8                | 10.34  | 98   | 560945   | 49.99   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 99.98% |          |
| 62) 4-Bromofluorobenzene      | 12.64  | 95   | 190357   | 48.79   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 97.58% |          |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.99   | 85   | 116107   | 43.334  | ug/l   | 94       |
| 3) Chloromethane              | 2.21   | 50   | 82739    | 39.916  | ug/l   | 99       |
| 4) Vinyl Chloride             | 2.35   | 62   | 96469    | 42.416  | ug/l   | 89       |
| 5) Bromomethane               | 2.77   | 94   | 72899    | 45.866  | ug/l   | 97       |
| 6) Chloroethane               | 2.92   | 64   | 60330    | 42.593  | ug/l   | 94       |
| 7) Trichlorofluoromethane     | 3.27   | 101  | 278280   | 48.591  | ug/l   | 97       |
| 8) Diethyl Ether              | 3.71   | 74   | 59139    | 45.127  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.09   | 101  | 146852   | 48.263  | ug/l   | 98       |
| 10) Methyl Iodide             | 4.30   | 142  | 139206   | 49.596  | ug/l   | 99       |
| 11) Tert butyl alcohol        | 5.23   | 59   | 39926    | 228.877 | ug/l # | 93       |
| 12) 1,1-Dichloroethene        | 4.07   | 96   | 130640   | 48.059  | ug/l   | 99       |
| 13) Acrolein                  | 3.92   | 56   | 38806    | 201.386 | ug/l   | 100      |
| 14) Allyl chloride            | 4.71   | 41   | 145027   | 46.588  | ug/l   | 99       |
| 15) Acrylonitrile             | 5.43   | 53   | 108361   | 247.809 | ug/l   | 98       |
| 16) Acetone                   | 4.16   | 43   | 122182   | 264.390 | ug/l   | 93       |
| 17) Carbon Disulfide          | 4.41   | 76   | 327525   | 42.265  | ug/l   | 99       |
| 18) Methyl Acetate            | 4.72   | 43   | 48524    | 46.036  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether   | 5.47   | 73   | 264824   | 48.995  | ug/l   | 97       |
| 20) Methylene Chloride        | 4.96   | 84   | 143364   | 48.276  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene  | 5.47   | 96   | 150598   | 48.143  | ug/l   | 96       |
| 22) Diisopropyl ether         | 6.36   | 45   | 280332   | 49.297  | ug/l   | 100      |
| 23) Vinyl Acetate             | 6.31   | 43   | 825691   | 255.217 | ug/l   | 100      |
| 24) 1,1-Dichloroethane        | 6.26   | 63   | 237832   | 48.858  | ug/l   | 98       |
| 25) 2-Butanone                | 7.21   | 43   | 128755   | 244.419 | ug/l   | 92       |
| 26) 2,2-Dichloropropane       | 7.21   | 77   | 258146   | 51.450  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene    | 7.21   | 96   | 164840   | 48.081  | ug/l   | 96       |
| 28) Bromochloromethane        | 7.55   | 49   | 79974    | 48.167  | ug/l # | 99       |
| 29) Tetrahydrofuran           | 7.57   | 42   | 69461    | 237.209 | ug/l   | 95       |
| 30) Chloroform                | 7.71   | 83   | 290627   | 49.978  | ug/l   | 93       |
| 31) Cyclohexane               | 7.98   | 56   | 172585   | 45.410  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane     | 7.91   | 97   | 285654   | 50.066  | ug/l   | 98       |
| 36) 1,1-Dichloropropene       | 8.11   | 75   | 204594   | 51.811  | ug/l   | 100      |
| 37) Ethyl Acetate             | 7.29   | 43   | 59636    | 51.330  | ug/l # | 92       |
| 38) Carbon Tetrachloride      | 8.10   | 117  | 269618   | 53.422  | ug/l   | 98       |

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 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
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 10/28/2020 11:45:19 AM

Quant Time: Oct 28 00:50:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 19 19:13:29 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.36  | 83   | 217800   | 52.759   | ug/l   | 98       |
| 40) Benzene                    | 8.36  | 78   | 557219   | 51.436   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.53  | 41   | 36735    | 58.511   | ug/l # | 75       |
| 42) 1,2-Dichloroethane         | 8.43  | 62   | 174672   | 51.523   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.46  | 43   | 116337   | 50.464   | ug/l   | 99       |
| 44) Trichloroethene            | 9.11  | 130  | 182599   | 52.645   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 9.39  | 63   | 127763   | 50.888   | ug/l   | 100      |
| 46) Dibromomethane             | 9.48  | 93   | 77814    | 49.745   | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.67  | 83   | 218929   | 52.238   | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.46  | 41   | 55626    | 49.652   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 15749    | 1041.631 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.23 | 43   | 299123   | 260.145  | ug/l   | 98       |
| 52) Toluene                    | 10.41 | 92   | 393730   | 53.362   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.63 | 75   | 191289   | 51.958   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 10.10 | 75   | 227195   | 52.730   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.80 | 97   | 108264   | 50.754   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.67 | 69   | 115972   | 52.423   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.95 | 76   | 175340   | 51.652   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.94  | 63   | 309160   | 272.416  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.99 | 43   | 209757   | 266.963  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.14 | 129  | 164501   | 52.880   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.25 | 107  | 105002   | 49.931   | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.88 | 164  | 158890   | 51.221   | ug/l   | 90       |
| 65) Chlorobenzene              | 11.67 | 112  | 427769   | 52.103   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.75 | 131  | 175449   | 53.768   | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.75 | 91   | 759546   | 53.969   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.85 | 106  | 586982   | 108.308  | ug/l   | 99       |
| 69) o-Xylene                   | 12.18 | 106  | 266272   | 53.057   | ug/l   | 96       |
| 70) Styrene                    | 12.20 | 104  | 469218   | 54.313   | ug/l   | 100      |
| 71) Bromoform                  | 12.37 | 173  | 93325    | 53.237   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.48 | 105  | 765847   | 56.116   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.29 | 43   | 108126   | 52.457   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.74 | 83   | 105875   | 50.631   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.79 | 75   | 81206m   | 54.486   | ug/l   |          |
| 77) Bromobenzene               | 12.77 | 156  | 181630   | 53.382   | ug/l   | 98       |
| 78) n-propylbenzene            | 12.83 | 91   | 885321   | 55.989   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.91 | 91   | 497759   | 54.282   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.97 | 105  | 660395   | 55.684   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.53 | 75   | 35146    | 53.476   | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 13.01 | 91   | 527037   | 54.152   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.23 | 119  | 577907   | 57.687   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.27 | 105  | 657583   | 56.100   | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.41 | 105  | 778869   | 56.661   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.52 | 119  | 735463   | 56.685   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.52 | 146  | 352411   | 53.812   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.60 | 146  | 346291   | 53.371   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.85 | 91   | 651264   | 57.057   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.11 | 117  | 123140   | 54.387   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.90 | 146  | 301923   | 52.774   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.51 | 75   | 19603    | 51.601   | ug/l   | 95       |

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Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
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MMDadoda  
10/28/2020 11:45:19 AM

Quant Time: Oct 28 00:50:53 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D101320S.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 19 19:13:29 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.17 | 180  | 215807   | 55.948 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.27 | 225  | 137042   | 57.212 | ug/l  | 98       |
| 95) Naphthalene            | 15.41 | 128  | 348990   | 55.106 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.60 | 180  | 187954   | 56.402 | ug/l  | 96       |

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

