

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW061219\  
 Data File : VW010787.D  
 Acq On : 12 Jun 2019 19:27  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/13/2019 11:32:25 AM

Quant Time: Jun 13 08:23:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.95   | 168  | 224343   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.84   | 114  | 370059   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.63  | 117  | 332502   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.56  | 152  | 163754   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 8.31   | 65   | 143179   | 54.15   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 108.30% |          |
| 35) Dibromofluoromethane      | 7.88   | 113  | 111777   | 55.65   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 111.30% |          |
| 50) Toluene-d8                | 10.32  | 98   | 457901   | 51.99   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 103.98% |          |
| 62) 4-Bromofluorobenzene      | 12.62  | 95   | 172653   | 53.87   | ug/l    | 0.00     |
| Spiked Amount                 | 50.000 |      | Recovery | =       | 107.74% |          |
| Target Compounds              |        |      |          |         |         |          |
|                               |        |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 2.00   | 85   | 88658    | 42.765  | ug/l    | 100      |
| 3) Chloromethane              | 2.22   | 50   | 143295   | 46.980  | ug/l    | 98       |
| 4) Vinyl Chloride             | 2.36   | 62   | 124947   | 44.338  | ug/l    | 97       |
| 5) Bromomethane               | 2.74   | 94   | 68428    | 44.217  | ug/l    | 100      |
| 6) Chloroethane               | 2.90   | 64   | 77674    | 45.919  | ug/l    | 97       |
| 7) Trichlorofluoromethane     | 3.25   | 101  | 172113   | 47.049  | ug/l    | 100      |
| 8) Diethyl Ether              | 3.68   | 74   | 64890    | 49.637  | ug/l    | 97       |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06   | 101  | 107284   | 47.702  | ug/l    | 100      |
| 10) Methyl Iodide             | 4.27   | 142  | 92017    | 40.704  | ug/l    | 99       |
| 11) Tert butyl alcohol        | 5.17   | 59   | 73214    | 339.863 | ug/l    | 95       |
| 12) 1,1-Dichloroethene        | 4.03   | 96   | 101277   | 46.681  | ug/l    | 96       |
| 13) Acrolein                  | 3.89   | 56   | 22393    | 254.383 | ug/l    | 96       |
| 14) Allyl chloride            | 4.67   | 41   | 241338   | 50.450  | ug/l    | 98       |
| 15) Acrylonitrile             | 5.37   | 53   | 166386   | 261.981 | ug/l    | 99       |
| 16) Acetone                   | 4.12   | 43   | 189472   | 267.417 | ug/l    | 98       |
| 17) Carbon Disulfide          | 4.37   | 76   | 308880   | 44.849  | ug/l    | 99       |
| 18) Methyl Acetate            | 4.67   | 43   | 83244    | 54.580  | ug/l    | 97       |
| 19) Methyl tert-butyl Ether   | 5.43   | 73   | 320259   | 51.182  | ug/l    | 99       |
| 20) Methylene Chloride        | 4.92   | 84   | 120508   | 48.483  | ug/l    | 96       |
| 21) trans-1,2-Dichloroethene  | 5.42   | 96   | 119206   | 48.401  | ug/l    | 94       |
| 22) Diisopropyl ether         | 6.31   | 45   | 498509   | 52.052  | ug/l    | 99       |
| 23) Vinyl Acetate             | 6.26   | 43   | 1499602  | 259.458 | ug/l    | 100      |
| 24) 1,1-Dichloroethane        | 6.21   | 63   | 242498   | 50.526  | ug/l    | 98       |
| 25) 2-Butanone                | 7.17   | 43   | 268166   | 272.951 | ug/l    | 96       |
| 26) 2,2-Dichloropropane       | 7.17   | 77   | 194652   | 49.840  | ug/l    | 98       |
| 27) cis-1,2-Dichloroethene    | 7.17   | 96   | 134051   | 49.458  | ug/l    | 97       |
| 28) Bromochloromethane        | 7.51   | 49   | 116595   | 54.435  | ug/l    | 97       |
| 29) Tetrahydrofuran           | 7.53   | 42   | 161372   | 261.134 | ug/l    | 99       |
| 30) Chloroform                | 7.68   | 83   | 222975   | 50.792  | ug/l    | 100      |
| 31) Cyclohexane               | 7.95   | 56   | 241947   | 45.349  | ug/l    | 96       |
| 32) 1,1,1-Trichloroethane     | 7.87   | 97   | 192035   | 50.077  | ug/l    | 100      |
| 36) 1,1-Dichloropropene       | 8.08   | 75   | 181810   | 47.997  | ug/l    | 100      |
| 37) Ethyl Acetate             | 7.25   | 43   | 107779   | 51.346  | ug/l    | 99       |
| 38) Carbon Tetrachloride      | 8.07   | 117  | 157512   | 48.169  | ug/l    | 98       |

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 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
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 ClientSampleID :  
 VSTDCCC050EC

Manual Integrations  
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Quant Time: Jun 13 08:23:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W060419S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 05 03:21:19 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 223264   | 46.365   | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 505922   | 48.958   | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.48  | 41   | 64327    | 51.557   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 167574   | 51.094   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 212383   | 52.372   | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 123376   | 48.400   | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 139093   | 50.847   | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 64271    | 50.584   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 168438   | 51.142   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.44  | 41   | 102796   | 52.575   | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 22893    | 1152.444 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 553722   | 267.276  | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 314197   | 49.416   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 177168   | 50.787   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 207472   | 50.542   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 92088    | 50.311   | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 145557   | 51.681   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 175731   | 50.945   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 351340   | 238.163  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 393998   | 263.142  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 103568   | 51.043   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 86812    | 50.058   | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.86 | 164  | 105390   | 47.738   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 316051   | 48.336   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 113828   | 50.290   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 610749   | 48.602   | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 440436   | 97.910   | ug/l   | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 208502   | 48.871   | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 368448   | 49.715   | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 58444    | 49.926   | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 576045   | 46.812   | ug/l   | 100      |
| 74) N-amyl acetate             | 12.27 | 43   | 207055   | 52.064   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 113696   | 48.533   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 82367m   | 47.898   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 127983   | 47.647   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.80 | 91   | 701864   | 47.302   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 406445   | 47.946   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 484733   | 48.126   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 35713    | 47.731   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 422317   | 48.275   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 408705   | 47.812   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 489394   | 48.285   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 587632   | 47.215   | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 533360   | 47.922   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 248721   | 48.016   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 246306   | 47.962   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 541788   | 48.789   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 96487    | 48.409   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 225189   | 48.341   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 20371    | 50.639   | ug/l   | 98       |

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Sample : VSTDCCC050  
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ALS Vial : 17 Sample Multiplier: 1

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MSVOA\_W  
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Quant Time: Jun 13 08:23:48 2019  
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Quant Title : SW846 8260  
QLast Update : Wed Jun 05 03:21:19 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 162863   | 49.820 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 100738   | 49.101 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 301721   | 50.800 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 140972   | 50.707 | ug/l  | 98       |

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

