

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW121618\  
 Data File : VW007495.D  
 Acq On : 13 Dec 2018 18:38  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 12/14/2018 11:24:43 AM

Quant Time: Dec 14 04:25:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 87399    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 143748   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 128290   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 63228    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 46053    | 47.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.00%  |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 43308    | 49.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.54%  |          |
| 50) Toluene-d8              | 10.32 | 98   | 163295   | 50.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.10% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 63240    | 52.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.44% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 26741    | 43.784  | ug/l  | 98     |
| 3) Chloromethane              | 2.21 | 50   | 24645    | 48.181  | ug/l  | 93     |
| 4) Vinyl Chloride             | 2.37 | 62   | 30592    | 50.964  | ug/l  | 95     |
| 5) Bromomethane               | 2.78 | 94   | 21635    | 53.644  | ug/l  | 96     |
| 6) Chloroethane               | 2.93 | 64   | 17874    | 54.094  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 26919    | 49.881  | ug/l  | 97     |
| 8) Diethyl Ether              | 3.67 | 74   | 22672    | 53.676  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 43443    | 48.786  | ug/l  | 94     |
| 10) Methyl Iodide             | 4.26 | 142  | 74081    | 50.231  | ug/l  | 99     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 17319    | 260.075 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 42814    | 49.937  | ug/l  | 96     |
| 13) Acrolein                  | 3.89 | 56   | 12204    | 276.962 | ug/l  | 99     |
| 14) Allyl chloride            | 4.66 | 41   | 64188    | 50.791  | ug/l  | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 47631    | 267.499 | ug/l  | 99     |
| 16) Acetone                   | 4.12 | 43   | 46290    | 273.316 | ug/l  | 97     |
| 17) Carbon Disulfide          | 4.37 | 76   | 127029   | 48.865  | ug/l  | 100    |
| 18) Methyl Acetate            | 4.67 | 43   | 23874    | 51.937  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 68985    | 53.337  | ug/l  | 99     |
| 20) Methylene Chloride        | 4.91 | 84   | 47237    | 51.087  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 48018    | 50.066  | ug/l  | 95     |
| 22) Diisopropyl ether         | 6.31 | 45   | 126576   | 52.107  | ug/l  | 98     |
| 23) Vinyl Acetate             | 6.26 | 43   | 372834   | 274.405 | ug/l  | 98     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 82343    | 50.155  | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 60976    | 275.778 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 54792    | 50.428  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 53254    | 50.710  | ug/l  | 98     |
| 28) Bromochloromethane        | 7.51 | 49   | 31267    | 50.632  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.52 | 42   | 37634    | 268.863 | ug/l  | 99     |
| 30) Chloroform                | 7.68 | 83   | 90468    | 50.636  | ug/l  | 97     |
| 31) Cyclohexane               | 7.95 | 56   | 72252    | 47.967  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 77737    | 49.617  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 68120    | 51.948  | ug/l  | 98     |
| 37) Ethyl Acetate             | 7.25 | 43   | 26925    | 55.205  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 73957    | 51.833  | ug/l  | 97     |

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 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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 12/14/2018 11:24:43 AM

Quant Time: Dec 14 04:25:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 84459    | 53.190   | ug/l   | 96       |
| 40) Benzene                    | 8.32  | 78   | 190872   | 52.450   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.49  | 41   | 16453    | 59.239   | ug/l # | 91       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 61062    | 53.415   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 52811    | 54.817   | ug/l   | 98       |
| 44) Trichloroethene            | 9.09  | 130  | 54459    | 52.405   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 45694    | 54.259   | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 25659    | 53.653   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 65944    | 52.569   | ug/l   | 91       |
| 48) Methyl methacrylate        | 9.43  | 41   | 26465    | 53.487   | ug/l   | 95       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8637     | 1113.052 | ug/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 132850   | 291.843  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 126080   | 53.536   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 68252    | 56.044   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 77884    | 55.322   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 35901    | 55.157   | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 47288    | 60.445   | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 61270    | 57.351   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 105393   | 292.131  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.97 | 43   | 92519    | 304.806  | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 46539    | 56.657   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 36346    | 56.506   | ug/l   | 96       |
| 64) Tetrachloroethene          | 10.86 | 164  | 45518    | 49.338   | ug/l   | 91       |
| 65) Chlorobenzene              | 11.66 | 112  | 143018   | 53.485   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 50355    | 53.469   | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 249491   | 54.269   | ug/l   | 91       |
| 68) m/p-Xylenes                | 11.84 | 106  | 191737   | 107.282  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 90694    | 54.335   | ug/l   | 96       |
| 70) Styrene                    | 12.18 | 104  | 151953   | 56.362   | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 25974    | 53.884   | ug/l # | 97       |
| 73) Isopropylbenzene           | 12.47 | 105  | 254016   | 52.431   | ug/l   | 98       |
| 74) N-amyl acetate             | 12.27 | 43   | 50123    | 56.926   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 39646    | 55.251   | ug/l   | 93       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 30461m   | 58.429   | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 57323    | 53.379   | ug/l   | 95       |
| 78) n-propylbenzene            | 12.80 | 91   | 294193   | 53.957   | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 172137   | 52.177   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 218307   | 53.627   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 13352    | 56.576   | ug/l   | 92       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 182831   | 52.574   | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 193245   | 53.875   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 220774   | 52.702   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 261544   | 53.413   | ug/l   | 95       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 236785   | 53.827   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 113136   | 52.839   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 112252   | 52.148   | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.83 | 91   | 217370   | 53.302   | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 41166    | 52.594   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 101999   | 53.187   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7618     | 52.902   | ug/l   | 98       |

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Sample : VSTDCCC050  
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ALS Vial : 14 Sample Multiplier: 1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 11 02:58:16 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 68552    | 51.943 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 34889    | 49.824 | ug/l  | 99       |
| 95) Naphthalene            | 15.37 | 128  | 137816   | 54.586 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 58870    | 51.350 | ug/l  | 95       |

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

