

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\  
 Data File : VW012367.D  
 Acq On : 30 Aug 2019 23:54  
 Operator : SY/VA  
 Sample : VW0830SBS02  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 31 04:37:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 174310   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 278488   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 245735   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 121682   | 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   | 122403   | 59.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.14% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 92116    | 55.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.82% |          |
| 50) Toluene-d8              | 10.32 | 98   | 374730   | 55.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.20% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 134555   | 56.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.26% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 20257    | 18.874  | ug/l  | 99     |
| 3) Chloromethane              | 2.21 | 50   | 35678    | 21.456  | ug/l  | 97     |
| 4) Vinyl Chloride             | 2.35 | 62   | 42134    | 20.702  | ug/l  | 99     |
| 5) Bromomethane               | 2.76 | 94   | 22060    | 21.402  | ug/l  | 97     |
| 6) Chloroethane               | 2.92 | 64   | 24512    | 21.350  | ug/l  | 97     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 21579    | 21.115  | ug/l  | 100    |
| 8) Diethyl Ether              | 3.68 | 74   | 21509    | 22.173  | ug/l  | 89     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 38034    | 21.895  | ug/l  | 100    |
| 10) Methyl Iodide             | 4.27 | 142  | 49771    | 21.176  | ug/l  | 98     |
| 11) Tert butyl alcohol        | 5.17 | 59   | 18864    | 151.276 | ug/l  | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 37485    | 21.439  | ug/l  | 98     |
| 13) Acrolein                  | 3.89 | 56   | 10567    | 90.022  | ug/l  | 95     |
| 14) Allyl chloride            | 4.67 | 41   | 79962    | 21.393  | ug/l  | 100    |
| 15) Acrylonitrile             | 5.36 | 53   | 63518    | 132.107 | ug/l  | 99     |
| 16) Acetone                   | 4.12 | 43   | 58305    | 110.076 | ug/l  | 100    |
| 17) Carbon Disulfide          | 4.38 | 76   | 93367    | 17.670  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 38573    | 29.402  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 69669    | 24.640  | ug/l  | 92     |
| 20) Methylene Chloride        | 4.92 | 84   | 46037    | 22.991  | ug/l  | 98     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 39866    | 21.263  | ug/l  | 99     |
| 22) Diisopropyl ether         | 6.31 | 45   | 162908   | 23.513  | ug/l  | 96     |
| 23) Vinyl Acetate             | 6.25 | 43   | 500047   | 117.275 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 84637    | 22.436  | ug/l  | 99     |
| 25) 2-Butanone                | 7.17 | 43   | 90691    | 126.000 | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 46595    | 21.822  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 45402    | 22.665  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.51 | 49   | 40276    | 24.496  | ug/l  | 100    |
| 29) Tetrahydrofuran           | 7.53 | 42   | 60914    | 141.060 | ug/l  | 98     |
| 30) Chloroform                | 7.68 | 83   | 80667    | 23.372  | ug/l  | 100    |
| 31) Cyclohexane               | 7.95 | 56   | 74630    | 19.996  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 63415    | 23.226  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 63159    | 21.947  | ug/l  | 99     |
| 37) Ethyl Acetate             | 7.25 | 43   | 40704    | 25.811  | ug/l  | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 56181    | 22.555  | ug/l  | 92     |

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 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Aug 31 04:37:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 66418    | 20.544  | ug/l  | 99       |
| 40) Benzene                    | 8.32  | 78   | 174141   | 22.160  | ug/l  | 98       |
| 41) Methacrylonitrile          | 7.48  | 41   | 24655    | 26.600  | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 59278    | 24.069  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 75596    | 25.879  | ug/l  | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 41732    | 21.846  | ug/l  | 95       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 48564    | 22.963  | ug/l  | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 22839    | 24.272  | ug/l  | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 57098    | 22.800  | ug/l  | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 34829    | 25.051  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 7875     | 546.679 | ug/l  | 97       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 200188   | 134.736 | ug/l  | 99       |
| 52) Toluene                    | 10.38 | 92   | 106011   | 22.456  | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 58330    | 22.866  | ug/l  | 96       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 67458    | 21.901  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 32899    | 24.711  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 47222    | 24.371  | ug/l  | 95       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 61258    | 24.348  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 120825   | 121.499 | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 136725   | 130.055 | ug/l  | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 35346    | 23.836  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 29867    | 24.080  | ug/l  | 99       |
| 64) Tetrachloroethene          | 10.86 | 164  | 36061    | 22.635  | ug/l  | 98       |
| 65) Chlorobenzene              | 11.66 | 112  | 107596   | 22.236  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 37975    | 22.496  | ug/l  | 97       |
| 67) Ethyl Benzene              | 11.73 | 91   | 206172   | 22.119  | ug/l  | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 150024   | 44.683  | ug/l  | 99       |
| 69) o-Xylene                   | 12.16 | 106  | 69312    | 22.305  | ug/l  | 98       |
| 70) Styrene                    | 12.18 | 104  | 120998   | 22.495  | ug/l  | 99       |
| 71) Bromoform                  | 12.35 | 173  | 20324    | 24.166  | ug/l  | # 99     |
| 73) Isopropylbenzene           | 12.46 | 105  | 197355   | 21.645  | ug/l  | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 67282    | 24.424  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.71 | 83   | 40855    | 24.441  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 29041m   | 24.505  | ug/l  |          |
| 77) Bromobenzene               | 12.74 | 156  | 44010    | 22.311  | ug/l  | 99       |
| 78) n-propylbenzene            | 12.80 | 91   | 242163   | 21.756  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.89 | 91   | 137971   | 21.832  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 170772   | 22.414  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 11876    | 21.972  | ug/l  | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 146076   | 22.076  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 143535   | 22.241  | ug/l  | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.25 | 105  | 170220   | 22.241  | ug/l  | 99       |
| 85) sec-Butylbenzene           | 13.38 | 105  | 204242   | 22.089  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 183232   | 22.190  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 85488    | 22.157  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 86038    | 22.459  | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.82 | 91   | 180790   | 22.017  | ug/l  | 100      |
| 90) Hexachloroethane           | 14.09 | 117  | 31837    | 21.976  | ug/l  | 98       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 78064    | 23.064  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7461     | 26.476  | ug/l  | 91       |

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ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Aug 31 04:37:12 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Aug 26 07:18:31 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.13 | 180  | 53009    | 22.663 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 37268    | 24.130 | ug/l  | 97       |
| 95) Naphthalene            | 15.36 | 128  | 100224   | 24.270 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.55 | 180  | 48262    | 23.649 | ug/l  | 99       |

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

