

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW012519\  
 Data File : VW008407.D  
 Acq On : 25 Jan 2019 13:29  
 Operator : SY/VA  
 Sample : VW0125SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0125SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 1/28/2019 12:45:46 PM

Quant Time: Jan 28 02:03:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 508239   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 779701   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 683287   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 345785   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.30   | 65  | 246713   | 49.41 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.82%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 246786   | 54.13 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.26% |      |
| 50) Toluene-d8            | 10.32  | 98  | 989526   | 54.12 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.24% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 356160   | 50.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.36% |      |

## Target Compounds

|                               |      |     |        |         |        | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85  | 35740  | 14.630  | ug/l   | 98     |
| 3) Chloromethane              | 2.21 | 50  | 63643  | 15.341  | ug/l   | 94     |
| 4) Vinyl Chloride             | 2.37 | 62  | 87924  | 16.649  | ug/l   | 99     |
| 5) Bromomethane               | 2.78 | 94  | 58696  | 17.231  | ug/l   | 95     |
| 6) Chloroethane               | 2.92 | 64  | 56505  | 17.495  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 62644  | 17.074  | ug/l   | 98     |
| 8) Diethyl Ether              | 3.67 | 74  | 38928  | 15.359  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.05 | 101 | 80401  | 17.491  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142 | 122878 | 16.924  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.16 | 59  | 30270  | 75.300  | ug/l # | 84     |
| 12) 1,1-Dichloroethene        | 4.02 | 96  | 78184  | 16.806  | ug/l   | 99     |
| 13) Acrolein                  | 3.88 | 56  | 34766  | 100.567 | ug/l   | 97     |
| 14) Allyl chloride            | 4.66 | 41  | 140343 | 15.887  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.36 | 53  | 81521  | 74.486  | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43  | 86515  | 77.160  | ug/l   | 97     |
| 17) Carbon Disulfide          | 4.37 | 76  | 245532 | 16.526  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43  | 42066  | 14.066  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 5.42 | 73  | 120154 | 15.611  | ug/l   | 96     |
| 20) Methylene Chloride        | 4.91 | 84  | 82698  | 16.002  | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 85739  | 16.394  | ug/l   | 99     |
| 22) Diisopropyl ether         | 6.31 | 45  | 254274 | 15.188  | ug/l   | 99     |
| 23) Vinyl Acetate             | 6.25 | 43  | 725354 | 73.373  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 152751 | 16.119  | ug/l   | 99     |
| 25) 2-Butanone                | 7.17 | 43  | 110777 | 71.130  | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 7.16 | 77  | 108664 | 16.964  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96  | 92010  | 16.142  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.51 | 49  | 77667  | 17.844  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 7.52 | 42  | 70200  | 71.130  | ug/l   | 98     |
| 30) Chloroform                | 7.67 | 83  | 149748 | 16.065  | ug/l   | 98     |
| 31) Cyclohexane               | 7.95 | 56  | 155867 | 15.906  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 133236 | 16.549  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 126588 | 17.187  | ug/l   | 98     |
| 37) Ethyl Acetate             | 7.25 | 43  | 47496  | 14.576  | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 130925 | 17.665  | ug/l   | 98     |

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 1/28/2019 12:45:46 PM

Quant Time: Jan 28 02:03:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 25 11:07:41 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 163024   | 16.849  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 343558   | 16.810  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.48  | 41   | 29560    | 15.321  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 94304    | 15.923  | ug/l   | 97       |
| 43) Isopropyl Acetate          | 8.42  | 43   | 100766   | 14.885  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 95545    | 17.192  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 83384    | 16.363  | ug/l   | 99       |
| 46) Dibromomethane             | 9.46  | 93   | 43482    | 16.590  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.64  | 83   | 112201   | 16.185  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.43  | 41   | 50738    | 15.328  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.44  | 88   | 13552    | 305.898 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 242424   | 72.485  | ug/l   | 100      |
| 52) Toluene                    | 10.38 | 92   | 224340   | 16.629  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.60 | 75   | 118062   | 16.005  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 134427   | 16.058  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 56965    | 15.669  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 76452    | 15.008  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 104476   | 16.041  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.92  | 63   | 211698   | 85.533  | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.97 | 43   | 172867   | 73.216  | ug/l   | 100      |
| 60) Dibromochloromethane       | 11.13 | 129  | 75356    | 16.130  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 11.23 | 107  | 57641    | 15.991  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.86 | 164  | 81849    | 17.692  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 242494   | 17.385  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 86494    | 17.332  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.73 | 91   | 440521   | 17.182  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 340878   | 34.266  | ug/l   | 98       |
| 69) o-Xylene                   | 12.17 | 106  | 162344   | 17.176  | ug/l   | 97       |
| 70) Styrene                    | 12.18 | 104  | 257418   | 16.488  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 46202    | 16.455  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 451238   | 17.504  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 99557    | 14.991  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 63566    | 15.575  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 49903m   | 16.599  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 98157    | 17.435  | ug/l   | 94       |
| 78) n-propylbenzene            | 12.80 | 91   | 532849   | 17.210  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 297318   | 17.017  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.94 | 105  | 372923   | 17.308  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.51 | 75   | 22958    | 15.083  | ug/l   | 96       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 310659   | 16.700  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 338609   | 17.660  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 377407   | 17.233  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 473189   | 17.280  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 418878   | 17.463  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.50 | 146  | 200222   | 17.610  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 195868   | 17.334  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 403850   | 17.148  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 80864    | 17.239  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.87 | 146  | 171203   | 17.017  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 11561    | 14.929  | ug/l   | 96       |

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1/28/2019 12:45:46 PM

Quant Time: Jan 28 02:03:43 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W012419S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 25 11:07:41 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 126935   | 17.681 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 78798    | 18.212 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 204035   | 16.186 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.56 | 180  | 103590   | 17.010 | ug/l  | 96       |

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

