

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101018\  
 Data File : VW005976.D  
 Acq On : 10 Oct 2018 10:00  
 Operator : SY/AP  
 Sample : VW1010SBSD02  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1010SBSD02

Manual Integrations  
 APPROVED

apatel  
 10/11/2018 10:30:26 AM

Quant Time: Oct 10 11:23:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 225871   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 345029   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 315748   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 172550   | 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   | 113132   | 51.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.18% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 114822   | 52.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.24% |          |
| 50) Toluene-d8              | 10.33 | 98   | 432175   | 50.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.98% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 160127   | 49.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.32%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.01 | 85   | 20063    | 18.126  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50   | 27159    | 20.860  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.37 | 62   | 42160    | 20.397  | ug/l # | 88     |
| 5) Bromomethane               | 2.78 | 94   | 41718    | 25.574  | ug/l   | 100    |
| 6) Chloroethane               | 2.93 | 64   | 30888    | 23.455  | ug/l   | 96     |
| 7) Trichlorofluoromethane     | 3.25 | 101  | 31850    | 19.412  | ug/l   | 95     |
| 8) Diethyl Ether              | 3.68 | 74   | 22233    | 22.018  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 39042    | 18.856  | ug/l   | 98     |
| 10) Methyl Iodide             | 4.26 | 142  | 69206    | 20.437  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 5.20 | 59   | 16380    | 101.930 | ug/l   | 97     |
| 12) 1,1-Dichloroethene        | 4.03 | 96   | 38289    | 19.257  | ug/l   | 95     |
| 13) Acrolein                  | 3.90 | 56   | 6814     | 47.582  | ug/l   | 94     |
| 14) Allyl chloride            | 4.66 | 41   | 57129    | 16.848  | ug/l   | 97     |
| 15) Acrylonitrile             | 5.37 | 53   | 43522    | 99.038  | ug/l   | 97     |
| 16) Acetone                   | 4.13 | 43   | 37563    | 85.765  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.38 | 76   | 100692   | 16.750  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 24791    | 22.430  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 65903    | 21.304  | ug/l   | 97     |
| 20) Methylene Chloride        | 4.91 | 84   | 48891    | 22.281  | ug/l   | 90     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96   | 43811    | 20.216  | ug/l   | 95     |
| 22) Diisopropyl ether         | 6.31 | 45   | 123806   | 19.532  | ug/l   | 98     |
| 23) Vinyl Acetate             | 6.26 | 43   | 335132   | 85.901  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 76696    | 19.772  | ug/l   | 98     |
| 25) 2-Butanone                | 7.18 | 43   | 59313    | 95.214  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 42231    | 15.469  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 51578    | 21.045  | ug/l   | 95     |
| 28) Bromochloromethane        | 7.51 | 49   | 28711    | 20.052  | ug/l   | 92     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 37876    | 96.183  | ug/l   | 95     |
| 30) Chloroform                | 7.68 | 83   | 83825    | 21.039  | ug/l   | 100    |
| 31) Cyclohexane               | 7.95 | 56   | 65289    | 17.008  | ug/l   | 95     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 69007    | 19.448  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 61848    | 18.708  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 26210    | 18.721  | ug/l   | 100    |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 64229    | 18.083  | ug/l   | 100    |

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Quant Time: Oct 10 11:23:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 02:14:04 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 75623    | 17.342  | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 178299   | 19.705  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 15797    | 18.023  | ug/l   | 97       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 54145    | 19.807  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 53557    | 18.313  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 52493    | 19.995  | ug/l   | 93       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 43905    | 19.385  | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 25925    | 20.826  | ug/l   | 100      |
| 47) Bromodichloromethane       | 9.65  | 83   | 60212    | 19.222  | ug/l   | 97       |
| 48) Methyl methacrylate        | 9.44  | 41   | 25269    | 18.138  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.47  | 88   | 8380     | 443.188 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 136734   | 96.012  | ug/l   | 97       |
| 52) Toluene                    | 10.39 | 92   | 117965   | 19.845  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 55646    | 16.999  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 64393    | 17.499  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 35928    | 20.838  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 44505    | 19.151  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 58143    | 20.045  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 94156    | 99.577  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.97 | 43   | 91454    | 89.562  | ug/l   | 96       |
| 60) Dibromochloromethane       | 11.13 | 129  | 42419    | 19.065  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 35683    | 20.711  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 54906    | 23.344  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 137341   | 20.307  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 49227    | 19.857  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.73 | 91   | 232842   | 19.491  | ug/l   | 98       |
| 68) m/p-Xylenes                | 11.84 | 106  | 183291   | 39.261  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 89209    | 19.960  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 147703   | 19.918  | ug/l   | 98       |
| 71) Bromoform                  | 12.35 | 173  | 26472    | 17.927  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 244569   | 19.408  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 49648    | 16.589  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 41737    | 20.207  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 32049m   | 20.793  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 61349    | 20.549  | ug/l   | 95       |
| 78) n-propylbenzene            | 12.81 | 91   | 282544   | 19.060  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 162361   | 19.402  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 206032   | 19.366  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 10272    | 14.069  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 171283   | 19.455  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 185004   | 19.551  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 210606   | 19.625  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 259315   | 19.523  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 226894   | 18.995  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 120574   | 20.328  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 121053   | 20.538  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.83 | 91   | 210879   | 18.729  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 38939    | 17.333  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 110267   | 20.939  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 6804     | 17.676  | ug/l   | 93       |

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QLast Update : Tue Oct 09 02:14:04 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 82905    | 20.304 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 48070    | 18.861 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 147710   | 20.987 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 71934    | 20.346 | ug/l  | 98       |

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

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