

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW100618\  
 Data File : VW005869.D  
 Acq On : 05 Oct 2018 00:30  
 Operator : SY/AP  
 Sample : VW1006SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW1006SBS01

Manual Integrations  
 APPROVED

apatel  
 10/5/2018 3:12:50 PM

Quant Time: Oct 05 01:22:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100418S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 04 07:08:57 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 188470   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 278216   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 269682   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 148549   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 111314   | 48.68 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.36%  |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 90271    | 49.50 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.00%  |      |
| 50) Toluene-d8            | 10.33  | 98  | 385571   | 53.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.50% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 142122   | 53.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.22% |      |

## Target Compounds

|                               |      |     |        |         |      | Qvalue |
|-------------------------------|------|-----|--------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 2.02 | 85  | 22148  | 20.578  | ug/l | 91     |
| 3) Chloromethane              | 2.21 | 50  | 23268  | 17.940  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.37 | 62  | 35873  | 18.889  | ug/l | 99     |
| 5) Bromomethane               | 2.78 | 94  | 23809  | 17.989  | ug/l | 99     |
| 6) Chloroethane               | 2.93 | 64  | 21577  | 18.576  | ug/l | 90     |
| 7) Trichlorofluoromethane     | 3.26 | 101 | 21947  | 16.803  | ug/l | 98     |
| 8) Diethyl Ether              | 3.68 | 74  | 19282  | 19.468  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101 | 34946  | 19.345  | ug/l | 97     |
| 10) Methyl Iodide             | 4.27 | 142 | 56010  | 19.108  | ug/l | 98     |
| 11) Tert butyl alcohol        | 5.21 | 59  | 14440m | 104.445 | ug/l |        |
| 12) 1,1-Dichloroethene        | 4.04 | 96  | 34461  | 19.469  | ug/l | 94     |
| 13) Acrolein                  | 3.90 | 56  | 15128  | 108.904 | ug/l | 100    |
| 14) Allyl chloride            | 4.67 | 41  | 55008  | 19.149  | ug/l | 100    |
| 15) Acrylonitrile             | 5.37 | 53  | 44373  | 105.721 | ug/l | 99     |
| 16) Acetone                   | 4.14 | 43  | 46151  | 120.948 | ug/l | 97     |
| 17) Carbon Disulfide          | 4.38 | 76  | 99565  | 17.790  | ug/l | 99     |
| 18) Methyl Acetate            | 4.68 | 43  | 20655  | 19.033  | ug/l | 96     |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 55530  | 19.984  | ug/l | 99     |
| 20) Methylene Chloride        | 4.92 | 84  | 45847  | 16.868  | ug/l | 95     |
| 21) trans-1,2-Dichloroethene  | 5.42 | 96  | 37728  | 19.528  | ug/l | 95     |
| 22) Diisopropyl ether         | 6.31 | 45  | 104444 | 18.526  | ug/l | 99     |
| 23) Vinyl Acetate             | 6.26 | 43  | 313202 | 97.799  | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 6.22 | 63  | 70041  | 19.147  | ug/l | 97     |
| 25) 2-Butanone                | 7.18 | 43  | 58148  | 108.331 | ug/l | 94     |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 44150  | 19.329  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 41387  | 19.219  | ug/l | 98     |
| 28) Bromochloromethane        | 7.52 | 49  | 24994  | 19.344  | ug/l | 95     |
| 29) Tetrahydrofuran           | 7.53 | 42  | 35008  | 105.650 | ug/l | 96     |
| 30) Chloroform                | 7.68 | 83  | 73321  | 18.703  | ug/l | 99     |
| 31) Cyclohexane               | 7.96 | 56  | 57988  | 18.543  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.88 | 97  | 62720  | 18.745  | ug/l | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75  | 52816  | 19.098  | ug/l | 99     |
| 37) Ethyl Acetate             | 7.26 | 43  | 24949  | 21.677  | ug/l | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 57663  | 18.713  | ug/l | 97     |

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apatel  
 10/5/2018 3:12:50 PM

Quant Time: Oct 05 01:22:23 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100418S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 04 07:08:57 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 58851    | 18.903  | ug/l   | 98       |
| 40) Benzene                    | 8.32  | 78   | 158782   | 19.811  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.49  | 41   | 14349    | 20.863  | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 53030    | 19.672  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 46711    | 20.532  | ug/l   | 99       |
| 44) Trichloroethene            | 9.10  | 130  | 39200    | 18.505  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 33938    | 17.882  | ug/l   | 95       |
| 46) Dibromomethane             | 9.46  | 93   | 19536    | 18.821  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 52962    | 19.279  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 20933    | 19.005  | ug/l   | 96       |
| 49) 1,4-Dioxane                | 9.46  | 88   | 6381     | 393.452 | ug/l # | 93       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 129376   | 109.311 | ug/l   | 100      |
| 52) Toluene                    | 10.39 | 92   | 104160   | 20.390  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 54264    | 20.230  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 59549    | 19.829  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 30948    | 20.638  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 37524    | 20.894  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 52574    | 20.594  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 80264    | 108.713 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.98 | 43   | 90230    | 113.981 | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 36758    | 19.636  | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 29052    | 20.857  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 41410    | 19.672  | ug/l   | 95       |
| 65) Chlorobenzene              | 11.66 | 112  | 116706   | 19.792  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 41781    | 19.116  | ug/l   | 97       |
| 67) Ethyl Benzene              | 11.74 | 91   | 199205   | 19.729  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 155173   | 39.883  | ug/l   | 100      |
| 69) o-Xylene                   | 12.17 | 106  | 70826    | 19.585  | ug/l   | 98       |
| 70) Styrene                    | 12.19 | 104  | 122596   | 19.986  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 24459    | 20.328  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.47 | 105  | 203127   | 19.874  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 47117    | 21.182  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 35798    | 20.413  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 25689m   | 19.028  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 48931    | 19.390  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 243125   | 19.999  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 142236   | 19.643  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 175944   | 19.822  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 11399    | 21.344  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 154888   | 20.293  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 141531   | 19.120  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 182900   | 20.069  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 210234   | 19.675  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 190660   | 19.879  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 97794    | 19.210  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 97462    | 19.188  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 178276   | 20.182  | ug/l   | 100      |
| 90) Hexachloroethane           | 14.10 | 117  | 34696    | 19.240  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 91857    | 20.069  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 7340     | 21.649  | ug/l   | 97       |

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ALS Vial : 8 Sample Multiplier: 1

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apatel  
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Quant Time: Oct 05 01:22:23 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W100418S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 04 07:08:57 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 65096    | 20.351 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 40910    | 20.226 | ug/l  | 100      |
| 95) Naphthalene            | 15.38 | 128  | 114086   | 20.112 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 59739    | 20.773 | ug/l  | 99       |

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

