

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072818\  
 Data File : VW004246.D  
 Acq On : 27 Jul 2018 02:26  
 Operator : SY/AP  
 Sample : VW0728SBS01  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VW0728SBS01

Manual Integrations  
 APPROVED

apatel  
 7/27/2018 12:36:53 PM

Quant Time: Jul 27 07:58:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W071618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 15:06:12 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 241129   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 388320   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 361420   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 196283   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31   | 65  | 149543   | 55.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 110.96% |      |
| 35) Dibromofluoromethane  | 7.88   | 113 | 131433   | 52.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.50% |      |
| 50) Toluene-d8            | 10.33  | 98  | 511601   | 52.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.84% |      |
| 62) 4-Bromofluorobenzene  | 12.62  | 95  | 180641   | 51.82 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.64% |      |

## Target Compounds

|                               |      |     |        |         | Qvalue |
|-------------------------------|------|-----|--------|---------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85  | 24463m | 18.066  | ug/l   |
| 3) Chloromethane              | 2.21 | 50  | 42194  | 23.673  | ug/l   |
| 4) Vinyl Chloride             | 2.36 | 62  | 34631  | 14.126  | ug/l   |
| 5) Bromomethane               | 2.77 | 94  | 31049  | 20.263  | ug/l   |
| 6) Chloroethane               | 2.92 | 64  | 28936  | 20.774  | ug/l   |
| 7) Trichlorofluoromethane     | 3.25 | 101 | 21634  | 21.020  | ug/l   |
| 8) Diethyl Ether              | 3.67 | 74  | 28047  | 23.476  | ug/l   |
| 9) 1,1,2-Trichlorotrifluoroet | 4.04 | 101 | 50414  | 21.227  | ug/l   |
| 10) Methyl Iodide             | 4.26 | 142 | 73611  | 21.580  | ug/l   |
| 11) Tert butyl alcohol        | 5.18 | 59  | 23535  | 126.487 | ug/l   |
| 12) 1,1-Dichloroethene        | 4.03 | 96  | 50272  | 21.453  | ug/l   |
| 13) Acrolein                  | 3.89 | 56  | 17889  | 93.570  | ug/l   |
| 14) Allyl chloride            | 4.65 | 41  | 86815  | 22.444  | ug/l   |
| 15) Acrylonitrile             | 5.37 | 53  | 73385  | 119.875 | ug/l   |
| 16) Acetone                   | 4.12 | 43  | 62204  | 96.040  | ug/l   |
| 17) Carbon Disulfide          | 4.37 | 76  | 159390 | 21.791  | ug/l   |
| 18) Methyl Acetate            | 4.67 | 43  | 37954  | 24.412  | ug/l   |
| 19) Methyl tert-butyl Ether   | 5.43 | 73  | 96592  | 21.507  | ug/l   |
| 20) Methylene Chloride        | 4.90 | 84  | 65518  | 17.860  | ug/l   |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96  | 56363  | 21.942  | ug/l   |
| 22) Diisopropyl ether         | 6.31 | 45  | 185027 | 23.668  | ug/l   |
| 23) Vinyl Acetate             | 6.25 | 43  | 542562 | 109.537 | ug/l   |
| 24) 1,1-Dichloroethane        | 6.21 | 63  | 107896 | 22.620  | ug/l   |
| 25) 2-Butanone                | 7.17 | 43  | 96387  | 110.586 | ug/l   |
| 26) 2,2-Dichloropropane       | 7.17 | 77  | 52051  | 19.010  | ug/l   |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96  | 59257  | 21.340  | ug/l   |
| 28) Bromochloromethane        | 7.51 | 49  | 48316  | 24.751  | ug/l   |
| 29) Tetrahydrofuran           | 7.53 | 42  | 64357  | 118.539 | ug/l   |
| 30) Chloroform                | 7.67 | 83  | 107240 | 22.602  | ug/l   |
| 31) Cyclohexane               | 7.95 | 56  | 90217  | 20.177  | ug/l   |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97  | 80964  | 21.852  | ug/l   |
| 36) 1,1-Dichloropropene       | 8.08 | 75  | 82122  | 20.555  | ug/l   |
| 37) Ethyl Acetate             | 7.26 | 43  | 43904  | 22.783  | ug/l   |
| 38) Carbon Tetrachloride      | 8.07 | 117 | 76332  | 20.447  | ug/l   |

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 Quant Title : SW846 8260  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 88418    | 18.897  | ug/l   | 95       |
| 40) Benzene                    | 8.32  | 78   | 246366   | 22.227  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.49  | 41   | 25955    | 24.308  | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 74243    | 21.955  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 79017    | 21.923  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 60087    | 20.913  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 64415    | 22.769  | ug/l   | 98       |
| 46) Dibromomethane             | 9.46  | 93   | 33128    | 22.567  | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.65  | 83   | 78847    | 21.787  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 36954    | 21.200  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 11602    | 514.147 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 216191   | 112.587 | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 150536   | 21.963  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 77522    | 20.485  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 90500    | 20.904  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 46433    | 22.490  | ug/l   | 97       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 57240    | 21.186  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 80039    | 22.313  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 132610   | 108.269 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.98 | 43   | 148124   | 109.446 | ug/l   | 98       |
| 60) Dibromochloromethane       | 11.13 | 129  | 52528    | 21.847  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 43805    | 22.298  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.87 | 164  | 57518    | 23.194  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.66 | 112  | 157673   | 20.517  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 55554    | 20.802  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 266633   | 19.750  | ug/l   | 99       |
| 68) m/p-Xylenes                | 11.84 | 106  | 208887   | 40.483  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 96060    | 20.069  | ug/l   | 98       |
| 70) Styrene                    | 12.18 | 104  | 168758   | 21.109  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 31093    | 20.621  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 265106   | 19.114  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.28 | 43   | 73045    | 20.212  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 56405    | 21.029  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 44953m   | 23.069  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 65341    | 19.688  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 331946   | 19.508  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 196984   | 20.526  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 235666   | 20.191  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 15480    | 17.572  | ug/l   | 94       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 210947   | 20.482  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.21 | 119  | 183447   | 18.720  | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 243114   | 20.245  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.39 | 105  | 280831   | 19.314  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 248598   | 19.492  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 132771   | 20.030  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 133808   | 20.128  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.84 | 91   | 234567   | 18.709  | ug/l   | 99       |
| 90) Hexachloroethane           | 14.10 | 117  | 46345    | 19.713  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 118489   | 20.063  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 9966     | 20.894  | ug/l   | 96       |

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ALS Vial : 10 Sample Multiplier: 1

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Quant Title : SW846 8260  
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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 82086    | 19.790 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 46155    | 19.378 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 152001   | 19.855 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 74554    | 20.302 | ug/l  | 99       |

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

