

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW120418\  
 Data File : VW007171.D  
 Acq On : 04 Dec 2018 00:27  
 Operator : SY/AP  
 Sample : VSTDIC010  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

apatel  
 12/5/2018 12:42:57 PM

Quant Time: Dec 04 03:53:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 04 03:43:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 114563   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 181583   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 175855   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 89761    | 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   | 11432    | 10.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.46% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 10016    | 9.81  | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 19.62% |          |
| 50) Toluene-d8              | 10.33 | 98   | 44573    | 9.95  | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 19.90% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 18272    | 10.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 20.74% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units  | Qvalue |
|-------------------------------|------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 13800    | 12.342  | ug/l   | 96     |
| 3) Chloromethane              | 2.21 | 50   | 21056    | 20.224  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.35 | 62   | 10532    | 11.521  | ug/l   | 93     |
| 5) Bromomethane               | 2.75 | 94   | 4013     | 8.601   | ug/l   | 94     |
| 6) Chloroethane               | 2.90 | 64   | 6073     | 12.031  | ug/l   | 92     |
| 7) Trichlorofluoromethane     | 3.26 | 101  | 19203    | 10.603  | ug/l   | 100    |
| 8) Diethyl Ether              | 3.68 | 74   | 6088     | 10.385  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.06 | 101  | 11686    | 9.978   | ug/l   | 100    |
| 10) Methyl Iodide             | 4.27 | 142  | 5366     | 4.392   | ug/l   | 98     |
| 11) Tert butyl alcohol        | 5.14 | 59   | 9884     | 126.673 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 4.04 | 96   | 10919    | 10.553  | ug/l   | 88     |
| 13) Acrolein                  | 3.89 | 56   | 4317     | 57.093  | ug/l   | 99     |
| 14) Allyl chloride            | 4.67 | 41   | 18042    | 10.496  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 13861    | 62.435  | ug/l   | 99     |
| 16) Acetone                   | 4.12 | 43   | 12534    | 73.996  | ug/l # | 87     |
| 17) Carbon Disulfide          | 4.38 | 76   | 37952    | 11.234  | ug/l   | 97     |
| 18) Methyl Acetate            | 4.67 | 43   | 7593     | 12.990  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.43 | 73   | 30785    | 11.451  | ug/l   | 94     |
| 20) Methylene Chloride        | 4.92 | 84   | 15281    | 9.505   | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene  | 5.43 | 96   | 12793    | 10.587  | ug/l   | 92     |
| 22) Diisopropyl ether         | 6.32 | 45   | 34577    | 10.381  | ug/l   | 95     |
| 23) Vinyl Acetate             | 6.26 | 43   | 100116   | 56.706  | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.22 | 63   | 21227    | 10.446  | ug/l   | 99     |
| 25) 2-Butanone                | 7.18 | 43   | 17349    | 62.184  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 7.16 | 77   | 18223    | 10.016  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.17 | 96   | 13571    | 10.515  | ug/l   | 96     |
| 28) Bromochloromethane        | 7.51 | 49   | 8207     | 10.841  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.54 | 42   | 11618    | 64.410  | ug/l   | 98     |
| 30) Chloroform                | 7.68 | 83   | 22130    | 10.241  | ug/l   | 97     |
| 31) Cyclohexane               | 7.95 | 56   | 22475    | 10.576  | ug/l # | 90     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 20435    | 10.514  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.09 | 75   | 17300    | 9.892   | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 8102     | 12.644  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 17211    | 10.223  | ug/l   | 91     |

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 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
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 VSTDIC010

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Quant Time: Dec 04 03:53:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 04 03:43:44 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 22707    | 10.365  | ug/l   | 97       |
| 40) Benzene                    | 8.32  | 78   | 50031    | 10.528  | ug/l   | 95       |
| 41) Methacrylonitrile          | 7.49  | 41   | 4849     | 12.069  | ug/l   | 96       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 15028    | 10.902  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.43  | 43   | 14937    | 12.165  | ug/l   | 99       |
| 44) Trichloroethene            | 9.09  | 130  | 14141    | 10.609  | ug/l   | 86       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 12258    | 10.522  | ug/l   | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 6727     | 11.384  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 16842    | 10.874  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 7263     | 12.312  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 2539     | 282.291 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 10.21 | 43   | 37201    | 60.296  | ug/l   | 99       |
| 52) Toluene                    | 10.39 | 92   | 34951    | 10.808  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 16727    | 11.120  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 10.07 | 75   | 19542    | 10.843  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 9653     | 11.169  | ug/l   | 94       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 12984    | 12.756  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.93 | 76   | 16212    | 11.189  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 24970    | 48.479  | ug/l   | 96       |
| 59) 2-Hexanone                 | 10.97 | 43   | 26450    | 62.795  | ug/l   | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 11490    | 11.579  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 9507     | 11.911  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.87 | 164  | 12809    | 11.221  | ug/l   | 92       |
| 65) Chlorobenzene              | 11.66 | 112  | 38905    | 10.638  | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.73 | 131  | 11830    | 10.553  | ug/l   | 94       |
| 67) Ethyl Benzene              | 11.73 | 91   | 70346    | 10.490  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.84 | 106  | 56064    | 21.294  | ug/l   | 99       |
| 69) o-Xylene                   | 12.17 | 106  | 27173    | 10.952  | ug/l   | 100      |
| 70) Styrene                    | 12.18 | 104  | 43901    | 11.081  | ug/l   | 99       |
| 71) Bromoform                  | 12.35 | 173  | 6232     | 11.689  | ug/l # | 98       |
| 73) Isopropylbenzene           | 12.47 | 105  | 71277    | 10.339  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.27 | 43   | 14926    | 12.683  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.72 | 83   | 11260    | 12.108  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.77 | 75   | 8875m    | 12.197  | ug/l   |          |
| 77) Bromobenzene               | 12.75 | 156  | 16250    | 10.946  | ug/l   | 96       |
| 78) n-propylbenzene            | 12.81 | 91   | 85488    | 10.262  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 48786    | 10.138  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.95 | 105  | 60759    | 10.193  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 3398     | 11.988  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.99 | 91   | 53913    | 10.689  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.21 | 119  | 53936    | 10.434  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 63900    | 10.746  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.39 | 105  | 74097    | 10.179  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 13.50 | 119  | 67143    | 10.442  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 33252    | 10.999  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.58 | 146  | 32930    | 10.866  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.83 | 91   | 63652    | 10.538  | ug/l   | 97       |
| 90) Hexachloroethane           | 14.10 | 117  | 9958     | 10.476  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 29381    | 11.051  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.49 | 75   | 1926     | 12.048  | ug/l   | 88       |

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Sample : VSTDICC010  
Misc : 5.00G/5ML/MSVOA\_W/SOIL  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC010

Manual Integrations  
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apatel  
12/5/2018 12:42:57 PM

Quant Time: Dec 04 03:53:42 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W120418S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 04 03:43:44 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.14 | 180  | 19690    | 11.152 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 15.24 | 225  | 9922     | 10.480 | ug/l  | 98       |
| 95) Naphthalene            | 15.38 | 128  | 38770    | 12.052 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 16682    | 11.392 | ug/l  | 99       |

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

