

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW050818\  
 Data File : VW002280.D  
 Acq On : 08 May 2018 00:36  
 Operator : JC/SY  
 Sample : VSTDIC020  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 08 03:28:51 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:17:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 242007   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.85  | 114  | 372736   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 346564   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 185491   | 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   | 49298    | 23.50 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 47.00% |          |
| 35) Dibromofluoromethane    | 7.88  | 113  | 46572    | 19.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 39.82% |          |
| 50) Toluene-d8              | 10.33 | 98   | 175211   | 20.08 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 40.16% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 61977    | 18.31 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 36.62% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 2.00 | 85   | 13777    | 7.39   | ug/l   | 94     |
| 3) Chloromethane              | 2.21 | 50   | 34328    | 19.58  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.35 | 62   | 56166    | 28.53  | ug/l   | 97     |
| 5) Bromomethane               | 2.76 | 94   | 47658    | 30.41  | ug/l   | 98     |
| 6) Chloroethane               | 2.92 | 64   | 38975    | 32.77  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.24 | 101  | 23138    | 7.05   | ug/l   | 95     |
| 8) Diethyl Ether              | 3.67 | 74   | 24577    | 26.18  | ug/l   | 95     |
| 9) 1,1,2-Trichlorotrifluoroet | 4.04 | 101  | 43235    | 19.69  | ug/l   | 97     |
| 10) Methyl Iodide             | 4.26 | 142  | 70163    | 28.58  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 5.18 | 59   | 18359    | 140.66 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 4.02 | 96   | 41774    | 22.01  | ug/l   | 96     |
| 13) Acrolein                  | 3.89 | 56   | 15541    | 147.61 | ug/l   | 96     |
| 14) Allyl chloride            | 4.65 | 41   | 59289    | 25.08  | ug/l   | 99     |
| 15) Acrylonitrile             | 5.37 | 53   | 52788    | 148.67 | ug/l   | 97     |
| 16) Acetone                   | 4.12 | 43   | 48287    | 115.64 | ug/l   | 94     |
| 17) Carbon Disulfide          | 4.37 | 76   | 122457   | 20.56  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.67 | 43   | 28127    | 30.64  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.42 | 73   | 73989    | 19.21  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.90 | 84   | 48265    | 20.46  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.41 | 96   | 45718    | 21.59  | ug/l   | 98     |
| 22) Diisopropyl ether         | 6.31 | 45   | 136006   | 28.81  | ug/l   | 97     |
| 23) Vinyl Acetate             | 6.25 | 43   | 405349   | 161.29 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 6.21 | 63   | 84028    | 24.40  | ug/l   | 97     |
| 25) 2-Butanone                | 7.17 | 43   | 72712    | 156.45 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 7.17 | 77   | 41402    | 12.86  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 7.16 | 96   | 53339    | 23.80  | ug/l   | 97     |
| 28) Bromochloromethane        | 7.51 | 49   | 37918    | 31.35  | ug/l # | 99     |
| 29) Tetrahydrofuran           | 7.52 | 42   | 45773    | 169.40 | ug/l   | 99     |
| 30) Chloroform                | 7.67 | 83   | 88431    | 22.20  | ug/l   | 98     |
| 31) Cyclohexane               | 7.95 | 56   | 72211    | 23.14  | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 7.87 | 97   | 64719    | 16.93  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 8.08 | 75   | 66739    | 19.34  | ug/l   | 99     |
| 37) Ethyl Acetate             | 7.26 | 43   | 31273    | 28.55  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 8.07 | 117  | 63319    | 15.17  | ug/l   | 96     |

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 08 03:28:51 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:17:21 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 9.34  | 83   | 76170    | 19.39  | ug/l  | 100      |
| 40) Benzene                    | 8.32  | 78   | 195373   | 20.51  | ug/l  | 97       |
| 41) Methacrylonitrile          | 7.49  | 41   | 20185    | 33.24  | ug/l  | 99       |
| 42) 1,2-Dichloroethane         | 8.40  | 62   | 60597    | 20.63  | ug/l  | 100      |
| 43) Isopropyl Acetate          | 8.43  | 43   | 59123    | 27.20  | ug/l  | 100      |
| 44) Trichloroethene            | 9.09  | 130  | 51698    | 17.19  | ug/l  | 99       |
| 45) 1,2-Dichloropropane        | 9.37  | 63   | 47904    | 22.07  | ug/l  | 97       |
| 46) Dibromomethane             | 9.46  | 93   | 26799    | 21.68  | ug/l  | 99       |
| 47) Bromodichloromethane       | 9.65  | 83   | 63425    | 19.16  | ug/l  | 99       |
| 48) Methyl methacrylate        | 9.44  | 41   | 28161    | 26.76  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.45  | 88   | 8304     | 437.66 | ug/l  | 98       |
| 51) 4-Methyl-2-Pentanone       | 10.22 | 43   | 164541   | 150.52 | ug/l  | 99       |
| 52) Toluene                    | 10.39 | 92   | 123079   | 19.59  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 10.61 | 75   | 61598    | 20.61  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene    | 10.08 | 75   | 71079    | 20.74  | ug/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 10.79 | 97   | 38126    | 21.02  | ug/l  | 98       |
| 56) Ethyl methacrylate         | 10.65 | 69   | 44989    | 23.97  | ug/l  | 98       |
| 57) 1,3-Dichloropropane        | 10.94 | 76   | 64882    | 22.83  | ug/l  | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.93  | 63   | 113654   | 139.09 | ug/l  | 98       |
| 59) 2-Hexanone                 | 10.98 | 43   | 110519   | 141.02 | ug/l  | 99       |
| 60) Dibromochloromethane       | 11.13 | 129  | 44081    | 18.06  | ug/l  | 100      |
| 61) 1,2-Dibromoethane          | 11.24 | 107  | 36497    | 21.70  | ug/l  | 96       |
| 64) Tetrachloroethene          | 10.87 | 164  | 54175    | 18.35  | ug/l  | 96       |
| 65) Chlorobenzene              | 11.66 | 112  | 139241   | 18.91  | ug/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.74 | 131  | 48247    | 17.29  | ug/l  | 99       |
| 67) Ethyl Benzene              | 11.74 | 91   | 237722   | 19.78  | ug/l  | 98       |
| 68) m/p-Xylenes                | 11.85 | 106  | 183257   | 37.88  | ug/l  | 100      |
| 69) o-Xylene                   | 12.18 | 106  | 87485    | 20.09  | ug/l  | 99       |
| 70) Styrene                    | 12.19 | 104  | 143699   | 19.82  | ug/l  | 99       |
| 71) Bromoform                  | 12.36 | 173  | 27397    | 17.84  | ug/l  | # 98     |
| 73) Isopropylbenzene           | 12.48 | 105  | 233277   | 20.33  | ug/l  | 100      |
| 74) N-amyl acetate             | 12.28 | 43   | 57704    | 31.04  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.73 | 83   | 45451    | 26.01  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.78 | 75   | 35750m   | 28.47  | ug/l  |          |
| 77) Bromobenzene               | 12.76 | 156  | 60531    | 20.17  | ug/l  | 99       |
| 78) n-propylbenzene            | 12.82 | 91   | 280790   | 20.93  | ug/l  | 99       |
| 79) 2-Chlorotoluene            | 12.90 | 91   | 163914   | 20.81  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.96 | 105  | 202115   | 20.18  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.52 | 75   | 11753    | 25.16  | ug/l  | 91       |
| 82) 4-Chlorotoluene            | 13.00 | 91   | 172102   | 19.37  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 13.22 | 119  | 171171   | 19.47  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.26 | 105  | 208136   | 20.22  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.40 | 105  | 244220   | 20.03  | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 13.51 | 119  | 219000   | 19.54  | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 13.51 | 146  | 118521   | 19.27  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.59 | 146  | 120367   | 19.62  | ug/l  | 99       |
| 89) n-Butylbenzene             | 13.83 | 91   | 206399   | 20.56  | ug/l  | 98       |
| 90) Hexachloroethane           | 14.11 | 117  | 38873    | 17.87  | ug/l  | 97       |
| 91) 1,2-Dichlorobenzene        | 13.88 | 146  | 108061   | 20.11  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.50 | 75   | 7857     | 24.00  | ug/l  | 97       |

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Sample : VSTDICC020  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDICC020

Quant Time: May 08 03:28:51 2018  
Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 08 03:17:21 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.15 | 180  | 79652    | 20.28 | ug/l  | 100      |
| 94) Hexachlorobutadiene    | 15.25 | 225  | 43774    | 15.99 | ug/l  | 99       |
| 95) Naphthalene            | 15.38 | 128  | 142062   | 24.27 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.57 | 180  | 70736    | 21.07 | ug/l  | 98       |

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

