

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF053019\  
 Data File : VF062793.D  
 Acq On : 30 May 2019 13:39  
 Operator : FY/SY  
 Sample : VSTDIC005  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 ClientSampleId :  
 VSTDIC005

Quant Time: May 31 04:14:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 30 14:31:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.07  | 168  | 972753   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.79  | 114  | 1649039  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.92  | 117  | 1230885  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.62 | 152  | 569549   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.06  | 65   | 36203    | 5.27 | ug/l   | 0.02     |
| Spiked Amount               |       |      | Recovery | =    | 10.54% |          |
| 35) Dibromofluoromethane    | 4.32  | 113  | 69764    | 5.53 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 11.06% |          |
| 50) Toluene-d8              | 7.72  | 98   | 166346   | 5.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 11.04% |          |
| 62) 4-Bromofluorobenzene    | 11.51 | 95   | 62524    | 5.47 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.94% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.01 | 85   | 77067    | 5.822  | ug/l   | 93     |
| 3) Chloromethane              | 1.16 | 50   | 54497    | 4.471  | ug/l # | 79     |
| 4) Vinyl Chloride             | 1.20 | 62   | 51249    | 4.568  | ug/l   | 97     |
| 5) Bromomethane               | 1.42 | 94   | 29843    | 4.862  | ug/l # | 59     |
| 6) Chloroethane               | 1.46 | 64   | 19484    | 4.728  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.57 | 101  | 72941m   | 4.842  | ug/l   |        |
| 8) Diethyl Ether              | 1.72 | 74   | 13648    | 4.573  | ug/l   | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 1.93 | 101  | 42395    | 4.419  | ug/l # | 89     |
| 10) Methyl Iodide             | 2.00 | 142  | 89034    | 4.725  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 2.71 | 59   | 10040    | 22.123 | ug/l   | 95     |
| 12) 1,1-Dichloroethene        | 1.89 | 96   | 40398    | 4.623  | ug/l   | 93     |
| 13) Acrolein                  | 2.10 | 56   | 6040     | 12.750 | ug/l # | 62     |
| 14) Allyl chloride            | 2.20 | 41   | 29356    | 3.712  | ug/l   | 96     |
| 15) Acrylonitrile             | 3.12 | 53   | 27095    | 21.165 | ug/l   | 99     |
| 16) Acetone                   | 2.35 | 43   | 37764    | 21.176 | ug/l # | 82     |
| 17) Carbon Disulfide          | 1.92 | 76   | 115047   | 4.442  | ug/l # | 92     |
| 18) Methyl Acetate            | 2.48 | 43   | 14106m   | 5.034  | ug/l   |        |
| 19) Methyl tert-butyl Ether   | 2.56 | 73   | 69997    | 4.481  | ug/l   | 92     |
| 20) Methylene Chloride        | 2.35 | 84   | 51910m   | 5.807  | ug/l   |        |
| 21) trans-1,2-Dichloroethene  | 2.43 | 96   | 37598    | 4.402  | ug/l   | 96     |
| 22) Diisopropyl ether         | 2.94 | 45   | 92921    | 4.764  | ug/l   | 98     |
| 23) Vinyl Acetate             | 3.37 | 43   | 300128   | 22.809 | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 3.03 | 63   | 63062    | 4.407  | ug/l   | 97     |
| 25) 2-Butanone                | 4.56 | 43   | 98973    | 25.977 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 3.80 | 77   | 35046    | 4.280  | ug/l   | 88     |
| 27) cis-1,2-Dichloroethene    | 3.66 | 96   | 66788    | 4.754  | ug/l   | 98     |
| 28) Bromochloromethane        | 3.92 | 49   | 38182    | 4.758  | ug/l # | 94     |
| 29) Tetrahydrofuran           | 4.29 | 42   | 35362    | 22.936 | ug/l   | 89     |
| 30) Chloroform                | 4.08 | 83   | 89970    | 4.528  | ug/l   | 95     |
| 31) Cyclohexane               | 3.90 | 56   | 83701    | 4.356  | ug/l   | 90     |
| 32) 1,1,1-Trichloroethane     | 4.31 | 97   | 48795    | 3.698  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 4.49 | 75   | 70721    | 4.185  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.32 | 43   | 27429    | 3.976  | ug/l # | 85     |
| 38) Carbon Tetrachloride      | 4.20 | 117  | 48618    | 3.826  | ug/l   | 95     |

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 Quant Title : SW846 8260  
 QLast Update : Thu May 30 14:31:38 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 5.65  | 83   | 89851    | 4.419   | ug/l   | 87       |
| 40) Benzene                    | 4.84  | 78   | 209770   | 4.557   | ug/l   | 97       |
| 41) Methacrylonitrile          | 4.95  | 41   | 16371    | 4.526   | ug/l # | 88       |
| 42) 1,2-Dichloroethane         | 5.15  | 62   | 37133    | 4.045   | ug/l   | 87       |
| 43) Isopropyl Acetate          | 7.13  | 43   | 37382    | 4.182   | ug/l # | 82       |
| 44) Trichloroethene            | 5.70  | 130  | 60807    | 4.700   | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 6.42  | 63   | 50710    | 4.364   | ug/l   | 97       |
| 46) Dibromomethane             | 6.27  | 93   | 29837    | 4.443   | ug/l   | 94       |
| 47) Bromodichloromethane       | 6.57  | 83   | 59700    | 4.282   | ug/l   | 99       |
| 48) Methyl methacrylate        | 6.89  | 41   | 16048    | 3.435   | ug/l   | 99       |
| 49) 1,4-Dioxane                | 6.88  | 88   | 6130     | 102.444 | ug/l # | 49       |
| 51) 4-Methyl-2-Pentanone       | 8.42  | 43   | 134491   | 22.013  | ug/l   | 98       |
| 52) Toluene                    | 7.79  | 92   | 115464   | 4.783   | ug/l   | 91       |
| 53) t-1,3-Dichloropropene      | 8.44  | 75   | 50755    | 4.450   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 7.48  | 75   | 73779    | 4.621   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 8.65  | 97   | 33334    | 4.663   | ug/l # | 82       |
| 56) Ethyl methacrylate         | 8.77  | 69   | 35603    | 4.181   | ug/l   | 94       |
| 57) 1,3-Dichloropropane        | 9.01  | 76   | 51191    | 4.204   | ug/l   | 89       |
| 58) 2-Chloroethyl Vinyl ether  | 7.47  | 63   | 69805    | 25.182  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.63  | 43   | 96560    | 21.616  | ug/l   | 94       |
| 60) Dibromochloromethane       | 8.88  | 129  | 35046    | 3.762   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.14  | 107  | 34018    | 4.481   | ug/l # | 80       |
| 64) Tetrachloroethene          | 8.32  | 164  | 44868    | 4.601   | ug/l   | 93       |
| 65) Chlorobenzene              | 9.95  | 112  | 116758   | 4.830   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.08 | 131  | 44941    | 4.631   | ug/l   | 88       |
| 67) Ethyl Benzene              | 10.05 | 91   | 192431   | 4.582   | ug/l   | 99       |
| 68) m/p-Xylenes                | 10.28 | 106  | 148803   | 9.427   | ug/l   | 89       |
| 69) o-Xylene                   | 10.83 | 106  | 66617    | 4.097   | ug/l   | 96       |
| 70) Styrene                    | 10.91 | 104  | 106667   | 4.316   | ug/l   | 97       |
| 71) Bromoform                  | 10.89 | 173  | 17163    | 3.531   | ug/l # | 90       |
| 73) Isopropylbenzene           | 11.22 | 105  | 198380   | 4.860   | ug/l   | 91       |
| 74) N-amyl acetate             | 11.46 | 43   | 53438    | 4.243   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.77 | 83   | 37056    | 4.442   | ug/l # | 88       |
| 76) 1,2,3-Trichloropropane     | 11.88 | 75   | 27260    | 4.973   | ug/l   | 90       |
| 77) Bromobenzene               | 11.59 | 156  | 46784    | 4.611   | ug/l   | 85       |
| 78) n-propylbenzene            | 11.69 | 91   | 239850   | 4.965   | ug/l   | 90       |
| 79) 2-Chlorotoluene            | 11.80 | 91   | 128777   | 4.730   | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 11.90 | 105  | 156622   | 4.785   | ug/l   | 89       |
| 81) trans-1,4-Dichloro-2-buten | 11.95 | 75   | 9393m    | 3.855   | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.98 | 91   | 129565   | 4.826   | ug/l   | 96       |
| 83) tert-Butylbenzene          | 12.21 | 119  | 153660   | 4.627   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 12.28 | 105  | 144257   | 4.554   | ug/l   | 96       |
| 85) sec-Butylbenzene           | 12.38 | 105  | 199705   | 4.481   | ug/l   | 96       |
| 86) p-Isopropyltoluene         | 12.52 | 119  | 170645   | 4.544   | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.54 | 146  | 89689    | 4.886   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 12.63 | 146  | 84984    | 4.933   | ug/l   | 96       |
| 89) n-Butylbenzene             | 12.91 | 91   | 177340   | 4.789   | ug/l   | 88       |
| 90) Hexachloroethane           | 12.98 | 117  | 36587    | 4.061   | ug/l   | 88       |
| 91) 1,2-Dichlorobenzene        | 13.01 | 146  | 74554    | 4.556   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.70 | 75   | 3541     | 3.558   | ug/l   | 73       |

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Sample : VSTDICC005  
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Quant Title : SW846 8260  
QLast Update : Thu May 30 14:31:38 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.25 | 180  | 51543    | 4.400 | ug/l   | 98       |
| 94) Hexachlorobutadiene    | 14.24 | 225  | 35517    | 4.345 | ug/l   | 92       |
| 95) Naphthalene            | 14.50 | 128  | 71018    | 3.337 | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene | 14.64 | 180  | 46470    | 4.188 | ug/l   | 90       |

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

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