

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053019\  
 Data File : VD062554.D  
 Acq On : 30 May 2019 15:27  
 Operator : VA/AP  
 Sample : VSTDIC020  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 31 01:15:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 01:07:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 889452   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 1212266  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 952298   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 530220   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 194573   | 18.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 37.28% |          |
| 35) Dibromofluoromethane    | 6.94  | 113  | 207117   | 18.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 36.98% |          |
| 50) Toluene-d8              | 10.41 | 98   | 463596   | 19.10 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 38.20% |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 206931   | 19.01 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 38.02% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.57 | 85   | 216358   | 20.416 | ug/l   | 93     |
| 3) Chloromethane              | 1.74 | 50   | 221284   | 18.310 | ug/l   | 93     |
| 4) Vinyl Chloride             | 1.85 | 62   | 158206   | 19.423 | ug/l   | 99     |
| 5) Bromomethane               | 2.15 | 94   | 51551    | 20.624 | ug/l   | 91     |
| 6) Chloroethane               | 2.26 | 64   | 67493    | 17.377 | ug/l # | 87     |
| 7) Trichlorofluoromethane     | 2.53 | 101  | 333890   | 19.622 | ug/l   | 95     |
| 8) Diethyl Ether              | 2.87 | 74   | 39763    | 18.187 | ug/l   | 91     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.15 | 101  | 192435   | 19.118 | ug/l   | 91     |
| 10) Methyl Iodide             | 3.31 | 142  | 263348   | 23.958 | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.09 | 59   | 45412    | 94.626 | ug/l # | 88     |
| 12) 1,1-Dichloroethene        | 3.13 | 96   | 146634   | 20.497 | ug/l   | 94     |
| 13) Acrolein                  | 3.04 | 56   | 18544    | 89.271 | ug/l   | 91     |
| 14) Allyl chloride            | 3.62 | 41   | 206906   | 18.473 | ug/l   | 86     |
| 15) Acrylonitrile             | 4.20 | 53   | 106631   | 98.642 | ug/l   | 95     |
| 16) Acetone                   | 3.23 | 43   | 185461   | 86.140 | ug/l   | 96     |
| 17) Carbon Disulfide          | 3.38 | 76   | 436737   | 19.211 | ug/l   | 95     |
| 18) Methyl Acetate            | 3.65 | 43   | 66793    | 19.071 | ug/l # | 92     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 337299   | 19.357 | ug/l   | 99     |
| 20) Methylene Chloride        | 3.82 | 84   | 153578   | 20.353 | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96   | 154959   | 19.105 | ug/l   | 95     |
| 22) Diisopropyl ether         | 5.14 | 45   | 440396   | 19.533 | ug/l   | 96     |
| 23) Vinyl Acetate             | 5.08 | 43   | 1323753  | 96.472 | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 4.99 | 63   | 287769   | 19.537 | ug/l # | 96     |
| 25) 2-Butanone                | 6.08 | 43   | 178565   | 90.248 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.03 | 77   | 297723   | 18.616 | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.04 | 96   | 156911   | 18.781 | ug/l   | 95     |
| 28) Bromochloromethane        | 6.45 | 49   | 100076   | 20.485 | ug/l   | 96     |
| 29) Tetrahydrofuran           | 6.48 | 42   | 85332    | 93.806 | ug/l   | 96     |
| 30) Chloroform                | 6.68 | 83   | 343901   | 19.403 | ug/l   | 95     |
| 31) Cyclohexane               | 6.97 | 56   | 183084   | 18.762 | ug/l   | 97     |
| 32) 1,1,1-Trichloroethane     | 6.88 | 97   | 358674   | 19.817 | ug/l   | 96     |
| 36) 1,1-Dichloropropene       | 7.16 | 75   | 228758   | 18.606 | ug/l   | 94     |
| 37) Ethyl Acetate             | 6.19 | 43   | 97224    | 17.709 | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 7.13 | 117  | 343785   | 18.513 | ug/l   | 93     |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC020

Quant Time: May 31 01:15:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D053019S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 31 01:07:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 8.88  | 83   | 188858   | 18.336  | ug/l   | 96       |
| 40) Benzene                    | 7.47  | 78   | 452748   | 18.747  | ug/l   | 99       |
| 41) Methacrylonitrile          | 6.47  | 41   | 117306   | 19.062  | ug/l # | 89       |
| 42) 1,2-Dichloroethane         | 7.59  | 62   | 251101   | 18.623  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 9.25  | 43   | 122096   | 18.757  | ug/l # | 98       |
| 44) Trichloroethene            | 8.55  | 130  | 189355   | 19.588  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 8.95  | 63   | 117519   | 19.810  | ug/l   | 99       |
| 46) Dibromomethane             | 9.08  | 93   | 97676    | 19.740  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.39  | 83   | 266560   | 19.393  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.13  | 41   | 80970    | 18.103  | ug/l   | 93       |
| 49) 1,4-Dioxane                | 9.10  | 88   | 13676    | 376.642 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone       | 10.32 | 43   | 426953   | 92.715  | ug/l   | 97       |
| 52) Toluene                    | 10.52 | 92   | 308249   | 18.761  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene      | 10.93 | 75   | 214416   | 18.247  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 10.05 | 75   | 229907   | 18.928  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 106225   | 19.443  | ug/l   | 92       |
| 56) Ethyl methacrylate         | 11.05 | 69   | 111486   | 19.293  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 11.42 | 76   | 146241   | 17.672  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.87  | 63   | 325560   | 108.697 | ug/l   | 99       |
| 59) 2-Hexanone                 | 11.55 | 43   | 290616   | 90.324  | ug/l   | 97       |
| 60) Dibromochloromethane       | 11.69 | 129  | 204966   | 19.338  | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 124476   | 19.253  | ug/l   | 97       |
| 64) Tetrachloroethene          | 11.27 | 164  | 173610   | 20.144  | ug/l   | 96       |
| 65) Chlorobenzene              | 12.41 | 112  | 372044   | 19.320  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 12.52 | 131  | 176987   | 19.667  | ug/l   | 94       |
| 67) Ethyl Benzene              | 12.53 | 91   | 692326   | 19.954  | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.68 | 106  | 495465   | 42.048  | ug/l   | 99       |
| 69) o-Xylene                   | 13.05 | 106  | 230748   | 20.209  | ug/l   | 85       |
| 70) Styrene                    | 13.08 | 104  | 403808   | 20.920  | ug/l   | 100      |
| 71) Bromoform                  | 13.24 | 173  | 123057   | 19.641  | ug/l   | 98       |
| 73) Isopropylbenzene           | 13.41 | 105  | 724260   | 20.544  | ug/l   | 95       |
| 74) N-amyl acetate             | 13.27 | 43   | 176289   | 19.464  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 113151   | 19.585  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 13.74 | 75   | 126396   | 18.880  | ug/l   | 98       |
| 77) Bromobenzene               | 13.68 | 156  | 201169   | 20.385  | ug/l   | 93       |
| 78) n-propylbenzene            | 13.78 | 91   | 827098   | 20.133  | ug/l   | 98       |
| 79) 2-Chlorotoluene            | 13.85 | 91   | 509679   | 21.191  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 637654   | 20.853  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 13.48 | 75   | 33956    | 18.748  | ug/l # | 81       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 581173   | 20.094  | ug/l   | 86       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 667008   | 19.828  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 602854   | 19.719  | ug/l   | 97       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 740528   | 20.641  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 14.50 | 119  | 705508   | 20.908  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 356295   | 20.683  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene        | 14.55 | 146  | 329928   | 19.528  | ug/l   | 96       |
| 89) n-Butylbenzene             | 14.81 | 91   | 623572   | 20.309  | ug/l   | 99       |
| 90) Hexachloroethane           | 15.01 | 117  | 175938   | 19.511  | ug/l   | 75       |
| 91) 1,2-Dichlorobenzene        | 14.82 | 146  | 295298   | 20.122  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.39 | 75   | 21333    | 18.198  | ug/l   | 81       |

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Sample : VSTDICC020  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC020

Quant Time: May 31 01:15:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D053019S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 31 01:07:20 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.95 | 180  | 214472   | 18.925 | ug/l  | 90       |
| 94) Hexachlorobutadiene    | 16.05 | 225  | 176481   | 21.230 | ug/l  | 99       |
| 95) Naphthalene            | 16.13 | 128  | 292889   | 18.308 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 165561   | 19.375 | ug/l  | 96       |

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

