

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060719\  
 Data File : VD062635.D  
 Acq On : 7 Jun 2019 10:53  
 Operator : FY/SY  
 Sample : VSTDIC005  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 07 23:29:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 07 23:24:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.05  | 168  | 656307   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 824662   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 750233   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 431856   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 49180    | 5.15 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =    | 10.30% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 45306    | 5.21 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =    | 10.42% |          |
| 50) Toluene-d8              | 10.41 | 98   | 92474    | 4.99 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =    | 9.98%  |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 48992    | 5.57 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =    | 11.14% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.58 | 85   | 65519    | 7.756  | ug/l   | 93     |
| 3) Chloromethane              | 1.76 | 50   | 42636    | 6.445  | ug/l   | 93     |
| 4) Vinyl Chloride             | 1.86 | 62   | 36779    | 5.502  | ug/l   | 97     |
| 5) Bromomethane               | 2.16 | 94   | 18737    | 5.588  | ug/l   | 89     |
| 6) Chloroethane               | 2.27 | 64   | 19928    | 5.770  | ug/l # | 88     |
| 7) Trichlorofluoromethane     | 2.54 | 101  | 78153    | 5.145  | ug/l   | 97     |
| 8) Diethyl Ether              | 2.88 | 74   | 11585    | 5.592  | ug/l   | 63     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.16 | 101  | 45694    | 5.424  | ug/l   | 95     |
| 10) Methyl Iodide             | 3.30 | 142  | 54393    | 5.065  | ug/l # | 94     |
| 11) Tert butyl alcohol        | 4.09 | 59   | 11485    | 27.710 | ug/l # | 61     |
| 12) 1,1-Dichloroethene        | 3.13 | 96   | 28753    | 4.898  | ug/l # | 92     |
| 13) Acrolein                  | 3.04 | 56   | 2395     | 20.908 | ug/l   | 100    |
| 14) Allyl chloride            | 3.63 | 41   | 46241    | 5.124  | ug/l # | 70     |
| 15) Acrylonitrile             | 4.21 | 53   | 21874    | 24.377 | ug/l   | 96     |
| 16) Acetone                   | 3.24 | 43   | 47701    | 26.882 | ug/l # | 86     |
| 17) Carbon Disulfide          | 3.38 | 76   | 91192    | 5.199  | ug/l   | 97     |
| 18) Methyl Acetate            | 3.65 | 43   | 18853    | 6.529  | ug/l # | 76     |
| 19) Methyl tert-butyl Ether   | 4.25 | 73   | 74475    | 5.145  | ug/l # | 91     |
| 20) Methylene Chloride        | 3.83 | 84   | 37417    | 5.654  | ug/l # | 87     |
| 21) trans-1,2-Dichloroethene  | 4.22 | 96   | 33084    | 5.032  | ug/l   | 89     |
| 22) Diisopropyl ether         | 5.15 | 45   | 84951    | 4.599  | ug/l # | 88     |
| 23) Vinyl Acetate             | 5.07 | 43   | 279886   | 24.014 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 4.99 | 63   | 60449    | 4.956  | ug/l # | 96     |
| 25) 2-Butanone                | 6.07 | 43   | 45106    | 26.080 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.03 | 77   | 72673    | 5.150  | ug/l # | 75     |
| 27) cis-1,2-Dichloroethene    | 6.04 | 96   | 35039    | 5.008  | ug/l   | 92     |
| 28) Bromochloromethane        | 6.43 | 49   | 17733    | 4.060  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 6.46 | 42   | 21562    | 27.704 | ug/l # | 87     |
| 30) Chloroform                | 6.67 | 83   | 81416    | 5.186  | ug/l   | 92     |
| 31) Cyclohexane               | 6.96 | 56   | 33509    | 4.483  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.87 | 97   | 83251    | 5.243  | ug/l   | 93     |
| 36) 1,1-Dichloropropene       | 7.14 | 75   | 54527    | 5.552  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.20 | 43   | 31570    | 7.373  | ug/l # | 81     |
| 38) Carbon Tetrachloride      | 7.11 | 117  | 77498    | 4.999  | ug/l   | 97     |

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 Sample : VSTDIC005  
 Misc : 5.00g/5mL/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jun 07 23:29:48 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 07 23:24:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 8.87  | 83   | 39922    | 5.108  | ug/l   | 92       |
| 40) Benzene                    | 7.46  | 78   | 93721    | 5.009  | ug/l   | 93       |
| 41) Methacrylonitrile          | 6.46  | 41   | 29102    | 5.671  | ug/l # | 87       |
| 42) 1,2-Dichloroethane         | 7.58  | 62   | 58627    | 5.225  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 9.24  | 43   | 26107    | 5.193  | ug/l # | 97       |
| 44) Trichloroethene            | 8.55  | 130  | 40616    | 5.259  | ug/l   | 84       |
| 45) 1,2-Dichloropropane        | 8.94  | 63   | 21877    | 4.820  | ug/l # | 82       |
| 46) Dibromomethane             | 9.06  | 93   | 21978    | 5.407  | ug/l   | 95       |
| 47) Bromodichloromethane       | 9.38  | 83   | 57383    | 5.200  | ug/l   | 94       |
| 48) Methyl methacrylate        | 9.12  | 41   | 20678    | 5.525  | ug/l   | 92       |
| 49) 1,4-Dioxane                | 9.09  | 88   | 2872     | 97.135 | ug/l # | 65       |
| 51) 4-Methyl-2-Pentanone       | 10.30 | 43   | 95404    | 26.724 | ug/l   | 98       |
| 52) Toluene                    | 10.51 | 92   | 69948    | 5.464  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 10.90 | 75   | 45855    | 5.048  | ug/l # | 85       |
| 54) cis-1,3-Dichloropropene    | 10.04 | 75   | 47508    | 5.054  | ug/l   | 87       |
| 55) 1,1,2-Trichloroethane      | 11.20 | 97   | 22653    | 5.296  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 11.04 | 69   | 23846    | 5.100  | ug/l   | 86       |
| 57) 1,3-Dichloropropane        | 11.41 | 76   | 34672    | 5.154  | ug/l   | 91       |
| 58) 2-Chloroethyl Vinyl ether  | 9.85  | 63   | 78889    | 33.570 | ug/l   | 91       |
| 59) 2-Hexanone                 | 11.53 | 43   | 73286    | 27.272 | ug/l   | 95       |
| 60) Dibromochloromethane       | 11.68 | 129  | 40330    | 4.747  | ug/l   | 95       |
| 61) 1,2-Dibromoethane          | 11.81 | 107  | 26118    | 5.035  | ug/l   | 82       |
| 64) Tetrachloroethene          | 11.26 | 164  | 35895    | 5.039  | ug/l # | 79       |
| 65) Chlorobenzene              | 12.40 | 112  | 81169    | 4.830  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 12.51 | 131  | 39006    | 4.843  | ug/l   | 99       |
| 67) Ethyl Benzene              | 12.52 | 91   | 145858   | 4.881  | ug/l   | 97       |
| 68) m/p-Xylenes                | 12.67 | 106  | 101025   | 9.636  | ug/l   | 89       |
| 69) o-Xylene                   | 13.05 | 106  | 48261    | 4.904  | ug/l   | 91       |
| 70) Styrene                    | 13.07 | 104  | 89590    | 5.106  | ug/l   | 96       |
| 71) Bromoform                  | 13.24 | 173  | 26074    | 4.658  | ug/l # | 89       |
| 73) Isopropylbenzene           | 13.40 | 105  | 165114   | 5.251  | ug/l   | 100      |
| 74) N-amyl acetate             | 13.27 | 43   | 42201    | 4.984  | ug/l # | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 13.70 | 83   | 25482    | 4.790  | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane     | 13.73 | 75   | 30154    | 5.061  | ug/l   | 97       |
| 77) Bromobenzene               | 13.67 | 156  | 41587    | 4.700  | ug/l   | 95       |
| 78) n-propylbenzene            | 13.77 | 91   | 182704   | 4.800  | ug/l   | 95       |
| 79) 2-Chlorotoluene            | 13.84 | 91   | 108701   | 4.895  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene     | 13.94 | 105  | 135050   | 4.921  | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-buten | 13.47 | 75   | 6569     | 4.280  | ug/l # | 94       |
| 82) 4-Chlorotoluene            | 13.95 | 91   | 134340   | 5.028  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 14.19 | 119  | 150795   | 4.925  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 14.24 | 105  | 137087   | 4.972  | ug/l   | 93       |
| 85) sec-Butylbenzene           | 14.37 | 105  | 154798   | 4.861  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 14.49 | 119  | 150068   | 4.858  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 14.46 | 146  | 86381    | 5.278  | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene        | 14.54 | 146  | 78836    | 5.129  | ug/l   | 97       |
| 89) n-Butylbenzene             | 14.79 | 91   | 142069   | 5.047  | ug/l   | 96       |
| 90) Hexachloroethane           | 15.01 | 117  | 37664    | 4.629  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 14.81 | 146  | 70514    | 5.243  | ug/l   | 94       |
| 92) 1,2-Dibromo-3-Chloropropan | 15.38 | 75   | 6959     | 5.923  | ug/l # | 35       |

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Acq On : 7 Jun 2019 10:53  
Operator : FY/SY  
Sample : VSTDICC005  
Misc : 5.00g/5mL/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICC005

Quant Time: Jun 07 23:29:48 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 07 23:24:47 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.94 | 180  | 49378    | 4.839 | ug/l  | 93       |
| 94) Hexachlorobutadiene    | 16.03 | 225  | 41155    | 5.108 | ug/l  | 89       |
| 95) Naphthalene            | 16.12 | 128  | 66265    | 4.674 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 16.27 | 180  | 39213    | 5.072 | ug/l  | 97       |

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

