

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
 Data File : VD059796.D  
 Acq On : 15 Aug 2018 14:59  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 16 07:45:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 312712   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.68  | 114  | 398932   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 326069   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 177237   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.01  | 65   | 180845   | 45.01  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 90.02% |          |
| 35) Dibromofluoromethane    | 5.53  | 113  | 173584   | 49.93  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 99.86% |          |
| 50) Toluene-d8              | 8.69  | 98   | 401316   | 48.74  | ug/l   | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 97.48% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 173150   | 46.94  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 93.88% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.33 | 85   | 182451   | 47.88  | ug/l   | 99     |
| 3) Chloromethane              | 1.47 | 50   | 99390    | 47.51  | ug/l   | 96     |
| 4) Vinyl Chloride             | 1.54 | 62   | 116181   | 52.43  | ug/l   | 100    |
| 5) Bromomethane               | 1.79 | 94   | 38708    | 54.87  | ug/l   | 99     |
| 6) Chloroethane               | 1.87 | 64   | 47618    | 51.52  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 2.07 | 101  | 163065   | 46.86  | ug/l   | 93     |
| 8) Diethyl Ether              | 2.33 | 74   | 31706    | 47.36  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.54 | 101  | 95817    | 49.10  | ug/l   | 97     |
| 10) Methyl Iodide             | 2.68 | 142  | 104747   | 44.37  | ug/l   | 97     |
| 11) Tert butyl alcohol        | 3.24 | 59   | 33871    | 238.27 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 2.53 | 96   | 70561    | 50.01  | ug/l   | 91     |
| 13) Acrolein                  | 2.46 | 56   | 29334    | 226.61 | ug/l   | 94     |
| 14) Allyl chloride            | 2.91 | 41   | 174352   | 49.18  | ug/l   | 94     |
| 15) Acrylonitrile             | 3.34 | 53   | 114339   | 229.58 | ug/l   | 95     |
| 16) Acetone                   | 2.59 | 43   | 189127   | 298.27 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.74 | 76   | 255993   | 54.14  | ug/l   | 99     |
| 18) Methyl Acetate            | 2.92 | 43   | 62554    | 46.16  | ug/l   | 97     |
| 19) Methyl tert-butyl Ether   | 3.39 | 73   | 316813   | 46.00  | ug/l   | 98     |
| 20) Methylene Chloride        | 3.06 | 84   | 76700    | 44.29  | ug/l   | 91     |
| 21) trans-1,2-Dichloroethene  | 3.37 | 96   | 134847   | 48.50  | ug/l   | 95     |
| 22) Diisopropyl ether         | 4.05 | 45   | 451404   | 47.20  | ug/l   | 94     |
| 23) Vinyl Acetate             | 4.00 | 43   | 1328184  | 245.20 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.96 | 63   | 263340   | 46.41  | ug/l   | 98     |
| 25) 2-Butanone                | 4.82 | 43   | 260738   | 268.67 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.78 | 77   | 265688   | 51.21  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 4.79 | 96   | 141478   | 46.44  | ug/l   | 99     |
| 28) Bromochloromethane        | 5.13 | 49   | 102126   | 45.87  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 97607    | 235.73 | ug/l   | 98     |
| 30) Chloroform                | 5.31 | 83   | 290674   | 42.66  | ug/l   | 97     |
| 31) Cyclohexane               | 5.58 | 56   | 194653   | 47.70  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 299514   | 50.00  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.73 | 75   | 206456   | 50.44  | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.90 | 43   | 98832    | 48.28  | ug/l   | 96     |
| 38) Carbon Tetrachloride      | 5.71 | 117  | 248791   | 50.38  | ug/l   | 98     |

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 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Aug 16 07:45:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 189011   | 53.38   | ug/l   | 100      |
| 40) Benzene                    | 6.00  | 78   | 436246   | 50.25   | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.10  | 41   | 49502    | 50.54   | ug/l # | 93       |
| 42) 1,2-Dichloroethane         | 6.11  | 62   | 227495   | 48.42   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 7.60  | 43   | 135306   | 52.34   | ug/l   | 99       |
| 44) Trichloroethene            | 6.97  | 130  | 150074   | 50.48   | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 7.33  | 63   | 117614   | 52.12   | ug/l   | 100      |
| 46) Dibromomethane             | 7.45  | 93   | 88624    | 48.02   | ug/l   | 97       |
| 47) Bromodichloromethane       | 7.73  | 83   | 218131   | 48.24   | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.49  | 41   | 89630    | 53.14   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 7.48  | 88   | 15876    | 1068.70 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 8.58  | 43   | 533713   | 273.13  | ug/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 273246   | 49.13   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.17  | 75   | 193425   | 51.59   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 221840   | 54.75   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 100456   | 48.92   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.30  | 69   | 110096   | 49.51   | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 9.66  | 76   | 151878   | 47.22   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 8.18  | 63   | 285303   | 259.60  | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.77  | 43   | 415588   | 296.60  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.95  | 129  | 147731   | 49.55   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 106149   | 46.67   | ug/l   | 98       |
| 64) Tetrachloroethene          | 9.50  | 164  | 136974   | 48.77   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.72 | 112  | 323679   | 49.02   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 129000   | 48.47   | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.86 | 91   | 535729   | 47.12   | ug/l   | 93       |
| 68) m/p-Xylenes                | 11.00 | 106  | 372875   | 96.76   | ug/l   | 87       |
| 69) o-Xylene                   | 11.40 | 106  | 182667   | 49.38   | ug/l   | 93       |
| 70) Styrene                    | 11.43 | 104  | 314724   | 47.98   | ug/l   | 99       |
| 71) Bromoform                  | 11.59 | 173  | 101667   | 52.55   | ug/l   | 99       |
| 73) Isopropylbenzene           | 11.77 | 105  | 557014   | 49.63   | ug/l   | 97       |
| 74) N-amyl acetate             | 11.64 | 43   | 176189   | 51.20   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 109371   | 47.99   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 120835   | 48.05   | ug/l   | 97       |
| 77) Bromobenzene               | 12.04 | 156  | 157287   | 49.05   | ug/l   | 92       |
| 78) n-propylbenzene            | 12.14 | 91   | 688268   | 49.17   | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 406118   | 48.11   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 427708   | 47.60   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 33629    | 57.16   | ug/l   | 87       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 434886   | 45.39   | ug/l   | 100      |
| 83) tert-Butylbenzene          | 12.57 | 119  | 501410   | 50.50   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 457555   | 47.25   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 569025   | 49.45   | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 497366   | 51.65   | ug/l   | 93       |
| 87) 1,3-Dichlorobenzene        | 12.83 | 146  | 284152   | 49.41   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 275371   | 48.30   | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.19 | 91   | 492042   | 50.54   | ug/l   | 98       |
| 90) Hexachloroethane           | 13.39 | 117  | 126497   | 52.35   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 227224   | 48.04   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 20765    | 51.07   | ug/l   | 92       |

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Sample : VSTDCCC050  
Misc : 5.00g/5ml/MSVOA D/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Quant Time: Aug 16 07:45:59 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 15 16:08:23 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 203431   | 51.44 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 156411   | 53.58 | ug/l  | 99       |
| 95) Naphthalene            | 14.52 | 128  | 291559   | 48.15 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 183571   | 52.60 | ug/l  | 98       |

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

