

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081318\  
 Data File : VD059740.D  
 Acq On : 13 Aug 2018 17:23  
 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 13 17:43:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 11 05:42:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 200503   | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 247384   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 200602   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 110551   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 151526   | 48.28  | ug/l    | 0.01     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.56%  |          |
| 35) Dibromofluoromethane    | 5.54  | 113  | 129498   | 50.83  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.66% |          |
| 50) Toluene-d8              | 8.70  | 98   | 261732   | 51.80  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.60% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 123279   | 48.65  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 97.30%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.34 | 85   | 151266   | 50.43  | ug/l   | 97     |
| 3) Chloromethane              | 1.48 | 50   | 66200    | 58.25  | ug/l   | 93     |
| 4) Vinyl Chloride             | 1.55 | 62   | 82139    | 57.23  | ug/l   | 97     |
| 5) Bromomethane               | 1.79 | 94   | 37417    | 62.08  | ug/l   | 96     |
| 6) Chloroethane               | 1.87 | 64   | 42948    | 58.14  | ug/l   | 95     |
| 7) Trichlorofluoromethane     | 2.08 | 101  | 157141   | 51.04  | ug/l   | 99     |
| 8) Diethyl Ether              | 2.34 | 74   | 27216    | 54.71  | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.55 | 101  | 84259    | 53.37  | ug/l   | 97     |
| 10) Methyl Iodide             | 2.69 | 142  | 90340    | 45.53  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 3.25 | 59   | 31840    | 292.76 | ug/l   | 99     |
| 12) 1,1-Dichloroethene        | 2.54 | 96   | 61313    | 54.32  | ug/l   | 96     |
| 13) Acrolein                  | 2.47 | 56   | 16112    | 248.73 | ug/l   | 96     |
| 14) Allyl chloride            | 2.92 | 41   | 133272   | 53.44  | ug/l   | 97     |
| 15) Acrylonitrile             | 3.35 | 53   | 72478    | 269.58 | ug/l   | 91     |
| 16) Acetone                   | 2.60 | 43   | 158309   | 308.79 | ug/l   | 99     |
| 17) Carbon Disulfide          | 2.75 | 76   | 208975   | 55.23  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.93 | 43   | 47543    | 48.28  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.40 | 73   | 237008   | 53.66  | ug/l   | 94     |
| 20) Methylene Chloride        | 3.07 | 84   | 68703    | 46.42  | ug/l   | 94     |
| 21) trans-1,2-Dichloroethene  | 3.38 | 96   | 87787    | 61.35  | ug/l   | 95     |
| 22) Diisopropyl ether         | 4.07 | 45   | 269987   | 57.24  | ug/l   | 89     |
| 23) Vinyl Acetate             | 4.01 | 43   | 866000   | 271.30 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.97 | 63   | 183572   | 52.69  | ug/l   | 99     |
| 25) 2-Butanone                | 4.83 | 43   | 167982   | 304.85 | ug/l   | 95     |
| 26) 2,2-Dichloropropane       | 4.80 | 77   | 216196   | 53.09  | ug/l   | 100    |
| 27) cis-1,2-Dichloroethene    | 4.80 | 96   | 93463    | 53.99  | ug/l   | 99     |
| 28) Bromochloromethane        | 5.14 | 49   | 70909    | 56.53  | ug/l # | 90     |
| 29) Tetrahydrofuran           | 5.18 | 42   | 59996    | 291.19 | ug/l   | 97     |
| 30) Chloroform                | 5.32 | 83   | 238142   | 51.75  | ug/l   | 100    |
| 31) Cyclohexane               | 5.59 | 56   | 115807   | 57.26  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 246063   | 51.58  | ug/l   | 97     |
| 36) 1,1-Dichloropropene       | 5.74 | 75   | 149648   | 52.12  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.91 | 43   | 66321    | 52.52  | ug/l # | 93     |
| 38) Carbon Tetrachloride      | 5.72 | 117  | 217931   | 48.24  | ug/l   | 97     |

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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 13 17:43:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 11 05:42:24 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.28  | 83   | 114856   | 53.99   | ug/l   | 96       |
| 40) Benzene                    | 6.02  | 78   | 265482   | 53.06   | ug/l   | 96       |
| 41) Methacrylonitrile          | 5.12  | 41   | 31263    | 52.66   | ug/l   | 94       |
| 42) 1,2-Dichloroethane         | 6.12  | 62   | 194273   | 48.96   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 7.61  | 43   | 85363    | 53.65   | ug/l   | 99       |
| 44) Trichloroethene            | 6.98  | 130  | 101705   | 50.40   | ug/l   | 88       |
| 45) 1,2-Dichloropropane        | 7.34  | 63   | 64916    | 50.94   | ug/l   | 95       |
| 46) Dibromomethane             | 7.46  | 93   | 67567    | 49.92   | ug/l   | 91       |
| 47) Bromodichloromethane       | 7.74  | 83   | 174529   | 48.80   | ug/l   | 100      |
| 48) Methyl methacrylate        | 7.50  | 41   | 65857    | 56.71   | ug/l   | 90       |
| 49) 1,4-Dioxane                | 7.48  | 88   | 10021    | 1220.67 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 359110   | 292.82  | ug/l   | 97       |
| 52) Toluene                    | 8.80  | 92   | 166739   | 51.82   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.18  | 75   | 142973   | 49.75   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.36  | 75   | 142693   | 51.73   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 64524    | 50.86   | ug/l   | 95       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 72984    | 50.48   | ug/l   | 88       |
| 57) 1,3-Dichloropropane        | 9.67  | 76   | 109480   | 51.83   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether  | 8.18  | 63   | 176020   | 262.87  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.78  | 43   | 272734   | 297.18  | ug/l   | 94       |
| 60) Dibromochloromethane       | 9.95  | 129  | 121574   | 49.67   | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 83059    | 52.35   | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.51  | 164  | 97107    | 49.32   | ug/l   | 93       |
| 65) Chlorobenzene              | 10.72 | 112  | 211601   | 51.69   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 101681   | 49.03   | ug/l   | 97       |
| 67) Ethyl Benzene              | 10.86 | 91   | 391543   | 51.04   | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.01 | 106  | 252311   | 102.60  | ug/l   | 93       |
| 69) o-Xylene                   | 11.41 | 106  | 115015   | 48.10   | ug/l   | 100      |
| 70) Styrene                    | 11.43 | 104  | 198627   | 50.72   | ug/l   | 97       |
| 71) Bromoform                  | 11.59 | 173  | 81861    | 52.19   | ug/l   | 98       |
| 73) Isopropylbenzene           | 11.77 | 105  | 379248   | 50.49   | ug/l   | 98       |
| 74) N-amyl acetate             | 11.64 | 43   | 121416   | 56.39   | ug/l # | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 72372    | 52.81   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 86046    | 52.62   | ug/l   | 99       |
| 77) Bromobenzene               | 12.04 | 156  | 111628   | 50.89   | ug/l   | 91       |
| 78) n-propylbenzene            | 12.15 | 91   | 471384   | 51.66   | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 287990   | 49.85   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 12.32 | 105  | 336218   | 51.67   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 21005    | 57.03   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 343110   | 50.38   | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.58 | 119  | 358189   | 50.61   | ug/l   | 89       |
| 84) 1,2,4-Trimethylbenzene     | 12.63 | 105  | 331752   | 49.41   | ug/l   | 95       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 396458   | 52.70   | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 336439   | 49.63   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 184158   | 49.59   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 185528   | 49.97   | ug/l   | 95       |
| 89) n-Butylbenzene             | 13.20 | 91   | 341414   | 50.93   | ug/l   | 99       |
| 90) Hexachloroethane           | 13.39 | 117  | 95692    | 54.41   | ug/l   | 77       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 154432   | 48.95   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 17701    | 51.85   | ug/l   | 77       |

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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 13 17:43:07 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081018S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 11 05:42:24 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.34 | 180  | 139788   | 46.67 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.44 | 225  | 116488   | 46.40 | ug/l  | 99       |
| 95) Naphthalene            | 14.52 | 128  | 203137   | 50.36 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 124067   | 48.45 | ug/l  | 96       |

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

