

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\  
 Data File : VD058038.D  
 Acq On : 9 Jun 2018 2:38  
 Operator : VA/AP  
 Sample : VD0608SBS02  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0608SBS02

Quant Time: Jun 09 03:51:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 789595   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 6.68  | 114  | 1092770  | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 869715   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 469028   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.00  | 65   | 412569   | 52.26  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.52% |          |
| 35) Dibromofluoromethane    | 5.54  | 113  | 424559   | 50.21  | ug/l    | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.42% |          |
| 50) Toluene-d8              | 8.70  | 98   | 960754   | 47.80  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.60%  |          |
| 62) 4-Bromofluorobenzene    | 11.92 | 95   | 422828   | 48.22  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.44%  |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.34 | 85   | 250619   | 23.65  | ug/l  | 98     |
| 3) Chloromethane              | 1.48 | 50   | 124272   | 23.81  | ug/l  | 98     |
| 4) Vinyl Chloride             | 1.55 | 62   | 113981   | 22.56  | ug/l  | 97     |
| 5) Bromomethane               | 1.79 | 94   | 37811    | 19.10  | ug/l  | 95     |
| 6) Chloroethane               | 1.87 | 64   | 42197    | 21.17  | ug/l  | 96     |
| 7) Trichlorofluoromethane     | 2.08 | 101  | 151013   | 21.87  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.33 | 74   | 29594    | 23.07  | ug/l  | 73     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.55 | 101  | 97302    | 23.62  | ug/l  | 95     |
| 10) Methyl Iodide             | 2.69 | 142  | 111738   | 21.02  | ug/l  | 95     |
| 11) Tert butyl alcohol        | 3.25 | 59   | 24162    | 114.26 | ug/l  | 96     |
| 12) 1,1-Dichloroethene        | 2.54 | 96   | 75164    | 23.74  | ug/l  | 94     |
| 13) Acrolein                  | 2.46 | 56   | 32445    | 107.13 | ug/l  | 86     |
| 14) Allyl chloride            | 2.91 | 41   | 154576   | 21.16  | ug/l  | 91     |
| 15) Acrylonitrile             | 3.36 | 53   | 130894   | 105.80 | ug/l  | 98     |
| 16) Acetone                   | 2.61 | 43   | 111434   | 97.98  | ug/l  | # 89   |
| 17) Carbon Disulfide          | 2.75 | 76   | 245705   | 21.42  | ug/l  | 97     |
| 18) Methyl Acetate            | 2.93 | 43   | 50908    | 23.14  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.39 | 73   | 325473   | 23.36  | ug/l  | 99     |
| 20) Methylene Chloride        | 3.06 | 84   | 89654    | 28.29  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 3.38 | 96   | 164930   | 23.38  | ug/l  | 99     |
| 22) Diisopropyl ether         | 4.06 | 45   | 670928   | 23.18  | ug/l  | 91     |
| 23) Vinyl Acetate             | 4.01 | 43   | 1715426  | 114.72 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.96 | 63   | 378481   | 23.80  | ug/l  | 99     |
| 25) 2-Butanone                | 4.82 | 43   | 284881   | 110.22 | ug/l  | # 90   |
| 26) 2,2-Dichloropropane       | 4.78 | 77   | 267568   | 20.42  | ug/l  | 98     |
| 27) cis-1,2-Dichloroethene    | 4.79 | 96   | 198230   | 23.70  | ug/l  | 92     |
| 28) Bromochloromethane        | 5.14 | 49   | 163167   | 23.70  | ug/l  | 92     |
| 29) Tetrahydrofuran           | 5.18 | 42   | 153909   | 113.59 | ug/l  | 98     |
| 30) Chloroform                | 5.30 | 83   | 377460   | 23.58  | ug/l  | 97     |
| 31) Cyclohexane               | 5.58 | 56   | 300723   | 21.91  | ug/l  | 97     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97   | 299127   | 22.32  | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 5.74 | 75   | 261205   | 21.70  | ug/l  | 95     |
| 37) Ethyl Acetate             | 4.91 | 43   | 145580   | 22.16  | ug/l  | # 94   |
| 38) Carbon Tetrachloride      | 5.71 | 117  | 248958   | 20.98  | ug/l  | 98     |

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 ALS Vial : 57 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Quant Time: Jun 09 03:51:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 07 08:57:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.27  | 83   | 259653   | 21.76  | µg/l   | 93       |
| 40) Benzene                    | 6.00  | 78   | 640841   | 22.79  | µg/l   | 99       |
| 41) Methacrylonitrile          | 5.12  | 41   | 68229    | 22.71  | µg/l   | 97       |
| 42) 1,2-Dichloroethane         | 6.12  | 62   | 257206   | 22.62  | µg/l   | 99       |
| 43) Isopropyl Acetate          | 7.61  | 43   | 195337   | 22.70  | µg/l # | 94       |
| 44) Trichloroethene            | 6.97  | 130  | 180010   | 21.91  | µg/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.33  | 63   | 178925   | 22.89  | µg/l   | 98       |
| 46) Dibromomethane             | 7.45  | 93   | 115209   | 22.94  | µg/l   | 97       |
| 47) Bromodichloromethane       | 7.74  | 83   | 262325   | 22.31  | µg/l   | 98       |
| 48) Methyl methacrylate        | 7.49  | 41   | 111717   | 21.09  | µg/l   | 97       |
| 49) 1,4-Dioxane                | 7.47  | 88   | 18041    | 411.20 | µg/l   | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.58  | 43   | 629174   | 114.00 | µg/l   | 96       |
| 52) Toluene                    | 8.79  | 92   | 346981   | 21.50  | µg/l   | 98       |
| 53) t-1,3-Dichloropropene      | 9.17  | 75   | 216372   | 21.36  | µg/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 266996   | 22.37  | µg/l   | 99       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 121091   | 23.18  | µg/l   | 96       |
| 56) Ethyl methacrylate         | 9.30  | 69   | 148414   | 23.16  | µg/l   | 92       |
| 57) 1,3-Dichloropropane        | 9.66  | 76   | 218745   | 23.87  | µg/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.18  | 63   | 391133   | 120.81 | µg/l   | 95       |
| 59) 2-Hexanone                 | 9.77  | 43   | 437934   | 108.27 | µg/l   | 99       |
| 60) Dibromochloromethane       | 9.95  | 129  | 161488   | 21.92  | µg/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 132365   | 22.03  | µg/l   | 99       |
| 64) Tetrachloroethene          | 9.51  | 164  | 183790   | 23.64  | µg/l   | 94       |
| 65) Chlorobenzene              | 10.72 | 112  | 390988   | 22.21  | µg/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.84 | 131  | 143177   | 21.17  | µg/l   | 93       |
| 67) Ethyl Benzene              | 10.85 | 91   | 721736   | 22.69  | µg/l   | 100      |
| 68) m/p-Xylenes                | 11.00 | 106  | 480700   | 46.36  | µg/l   | 94       |
| 69) o-Xylene                   | 11.40 | 106  | 231929   | 22.53  | µg/l   | 94       |
| 70) Styrene                    | 11.43 | 104  | 391333   | 22.97  | µg/l   | 98       |
| 71) Bromoform                  | 11.60 | 173  | 110415   | 21.70  | µg/l   | 98       |
| 73) Isopropylbenzene           | 11.76 | 105  | 662833   | 21.34  | µg/l   | 100      |
| 74) N-amyl acetate             | 11.63 | 43   | 241336   | 20.13  | µg/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 147029   | 21.71  | µg/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 158291   | 22.47  | µg/l   | 100      |
| 77) Bromobenzene               | 12.04 | 156  | 199761   | 21.72  | µg/l   | 85       |
| 78) n-propylbenzene            | 12.15 | 91   | 882030   | 21.82  | µg/l   | 97       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 492630   | 21.36  | µg/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 554510   | 22.89  | µg/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.83 | 75   | 35377    | 20.27  | µg/l   | 93       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 588793   | 24.64  | µg/l   | 93       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 575268   | 21.03  | µg/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 549739   | 21.10  | µg/l   | 97       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 675184   | 20.45  | µg/l   | 98       |
| 86) p-Isopropyltoluene         | 12.87 | 119  | 525796   | 19.76  | µg/l   | 97       |
| 87) 1,3-Dichlorobenzene        | 12.84 | 146  | 324446   | 20.86  | µg/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 335446   | 22.13  | µg/l   | 98       |
| 89) n-Butylbenzene             | 13.19 | 91   | 590706   | 22.20  | µg/l   | 99       |
| 90) Hexachloroethane           | 13.40 | 117  | 145293   | 21.39  | µg/l   | 76       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 289791   | 23.05  | µg/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 22771    | 21.78  | µg/l   | 66       |

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Misc : 5.00µl/5ml/MSVOA D/SOIL  
ALS Vial : 57 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0608SBS02

Quant Time: Jun 09 03:51:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060618S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 07 08:57:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.33 | 180  | 241646   | 20.58 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 181268   | 19.62 | ug/l  | 96       |
| 95) Naphthalene            | 14.51 | 128  | 315075   | 20.81 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 203686   | 20.35 | ug/l  | 96       |

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

