

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD060818\  
 Data File : VD058011.D  
 Acq On : 8 Jun 2018 11:45  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Quant Time: Jun 08 12:03:13 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      | 5.64  | 168  | 1001991  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 1291873  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 1035736  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 522485   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.01   | 65  | 463707   | 46.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.58%  |      |
| 35) Dibromofluoromethane  | 5.55   | 113 | 513723   | 51.40 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.80% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1209210  | 50.88 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.76% |      |
| 62) 4-Bromofluorobenzene  | 11.93  | 95  | 485505   | 46.83 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.66%  |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.36 | 85  | 652733  | 48.54  | ug/l   | 97     |
| 3) Chloromethane              | 1.49 | 50  | 328089  | 49.54  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.56 | 62  | 334481  | 52.17  | ug/l   | 98     |
| 5) Bromomethane               | 1.81 | 94  | 133090  | 52.97  | ug/l   | 99     |
| 6) Chloroethane               | 1.90 | 64  | 149063  | 58.93  | ug/l   | 93     |
| 7) Trichlorofluoromethane     | 2.09 | 101 | 479993  | 54.77  | ug/l   | 96     |
| 8) Diethyl Ether              | 2.35 | 74  | 90481   | 55.58  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.57 | 101 | 286412  | 54.79  | ug/l   | 95     |
| 10) Methyl Iodide             | 2.70 | 142 | 366353  | 54.32  | ug/l   | 92     |
| 11) Tert butyl alcohol        | 3.26 | 59  | 86391   | 321.93 | ug/l # | 93     |
| 12) 1,1-Dichloroethene        | 2.56 | 96  | 221224  | 55.05  | ug/l   | 97     |
| 13) Acrolein                  | 2.48 | 56  | 90635   | 235.83 | ug/l   | 94     |
| 14) Allyl chloride            | 2.93 | 41  | 490909  | 52.96  | ug/l   | 97     |
| 15) Acrylonitrile             | 3.36 | 53  | 407503  | 259.57 | ug/l   | 97     |
| 16) Acetone                   | 2.62 | 43  | 417289  | 289.13 | ug/l   | 97     |
| 17) Carbon Disulfide          | 2.76 | 76  | 791848  | 54.39  | ug/l   | 100    |
| 18) Methyl Acetate            | 2.94 | 43  | 145142  | 51.99  | ug/l   | 98     |
| 19) Methyl tert-butyl Ether   | 3.40 | 73  | 914000  | 51.69  | ug/l   | 100    |
| 20) Methylene Chloride        | 3.08 | 84  | 219064  | 55.67  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 3.39 | 96  | 463764  | 51.81  | ug/l   | 97     |
| 22) Diisopropyl ether         | 4.07 | 45  | 1840805 | 50.12  | ug/l   | 95     |
| 23) Vinyl Acetate             | 4.02 | 43  | 5036924 | 265.44 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 3.97 | 63  | 996101  | 49.35  | ug/l   | 98     |
| 25) 2-Butanone                | 4.83 | 43  | 883945  | 269.50 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.79 | 77  | 858967  | 51.66  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 4.80 | 96  | 538865  | 50.76  | ug/l   | 99     |
| 28) Bromochloromethane        | 5.15 | 49  | 470846  | 53.90  | ug/l   | 98     |
| 29) Tetrahydrofuran           | 5.18 | 42  | 431355  | 250.88 | ug/l   | 99     |
| 30) Chloroform                | 5.32 | 83  | 1060326 | 52.20  | ug/l   | 98     |
| 31) Cyclohexane               | 5.59 | 56  | 832939  | 47.82  | ug/l   | 96     |
| 32) 1,1,1-Trichloroethane     | 5.51 | 97  | 889383  | 52.29  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 5.75 | 75  | 716262  | 50.32  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.92 | 43  | 412885  | 53.16  | ug/l # | 94     |
| 38) Carbon Tetrachloride      | 5.73 | 117 | 731349  | 52.14  | ug/l   | 98     |

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Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 VSTDCCC050

Quant Time: Jun 08 12:03:13 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          | 7.28  | 83   | 753520   | 53.41   | µg/l  | 95       |
| 40) Benzene                    | 6.01  | 78   | 1745648  | 52.50   | µg/l  | 98       |
| 41) Methacrylonitrile          | 5.13  | 41   | 196620   | 55.37   | µg/l  | 97       |
| 42) 1,2-Dichloroethane         | 6.12  | 62   | 715461   | 53.22   | µg/l  | 98       |
| 43) Isopropyl Acetate          | 7.61  | 43   | 544488   | 53.53   | µg/l  | 98       |
| 44) Trichloroethene            | 6.98  | 130  | 526279   | 54.19   | µg/l  | 95       |
| 45) 1,2-Dichloropropane        | 7.34  | 63   | 487637   | 52.77   | µg/l  | 99       |
| 46) Dibromomethane             | 7.46  | 93   | 315118   | 53.08   | µg/l  | 99       |
| 47) Bromodichloromethane       | 7.73  | 83   | 755340   | 54.34   | µg/l  | 99       |
| 48) Methyl methacrylate        | 7.50  | 41   | 330599   | 52.80   | µg/l  | 97       |
| 49) 1,4-Dioxane                | 7.48  | 88   | 56143    | 1082.41 | µg/l  | 91       |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 1740389  | 266.74  | µg/l  | 99       |
| 52) Toluene                    | 8.80  | 92   | 1015931  | 53.24   | µg/l  | 99       |
| 53) t-1,3-Dichloropropene      | 9.18  | 75   | 670180   | 55.96   | µg/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 763137   | 54.09   | µg/l  | 98       |
| 55) 1,1,2-Trichloroethane      | 9.45  | 97   | 323382   | 52.36   | µg/l  | 98       |
| 56) Ethyl methacrylate         | 9.31  | 69   | 403110   | 53.21   | µg/l  | 95       |
| 57) 1,3-Dichloropropane        | 9.65  | 76   | 564677   | 52.13   | µg/l  | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.19  | 63   | 988901   | 258.38  | µg/l  | 98       |
| 59) 2-Hexanone                 | 9.78  | 43   | 1323262  | 276.74  | µg/l  | 100      |
| 60) Dibromochloromethane       | 9.95  | 129  | 475736   | 54.63   | µg/l  | 98       |
| 61) 1,2-Dibromoethane          | 10.09 | 107  | 380550   | 53.58   | µg/l  | 98       |
| 64) Tetrachloroethene          | 9.51  | 164  | 482374   | 52.10   | µg/l  | 98       |
| 65) Chlorobenzene              | 10.72 | 112  | 1092874  | 52.12   | µg/l  | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.85 | 131  | 416387   | 51.69   | µg/l  | 98       |
| 67) Ethyl Benzene              | 10.85 | 91   | 1954570  | 51.60   | µg/l  | 98       |
| 68) m/p-Xylenes                | 11.01 | 106  | 1239403  | 100.36  | µg/l  | 96       |
| 69) o-Xylene                   | 11.40 | 106  | 619675   | 50.55   | µg/l  | 100      |
| 70) Styrene                    | 11.43 | 104  | 1034378  | 50.97   | µg/l  | 97       |
| 71) Bromoform                  | 11.59 | 173  | 335377   | 55.34   | µg/l  | 97       |
| 73) Isopropylbenzene           | 11.77 | 105  | 1822282  | 52.66   | µg/l  | 98       |
| 74) N-amyl acetate             | 11.64 | 43   | 701639   | 52.54   | µg/l  | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.08 | 83   | 389294   | 51.59   | µg/l  | 99       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 413169   | 52.64   | µg/l  | 95       |
| 77) Bromobenzene               | 12.04 | 156  | 516292   | 50.40   | µg/l  | 86       |
| 78) n-propylbenzene            | 12.14 | 91   | 2338818  | 51.94   | µg/l  | 96       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 1291000  | 50.25   | µg/l  | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 1406270  | 52.11   | µg/l  | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 112635   | 57.94   | µg/l  | 99       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 1450409  | 58.60   | µg/l  | 96       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 1606080  | 52.70   | µg/l  | 91       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 1531411  | 52.77   | µg/l  | 95       |
| 85) sec-Butylbenzene           | 12.75 | 105  | 1793727  | 48.77   | µg/l  | 99       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 1502648  | 50.69   | µg/l  | 97       |
| 87) 1,3-Dichlorobenzene        | 12.83 | 146  | 916119   | 52.87   | µg/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 883268   | 52.32   | µg/l  | 96       |
| 89) n-Butylbenzene             | 13.19 | 91   | 1535425  | 58.22   | µg/l  | 98       |
| 90) Hexachloroethane           | 13.39 | 117  | 409033   | 54.06   | µg/l  | 79       |
| 91) 1,2-Dichlorobenzene        | 13.19 | 146  | 705051   | 50.35   | µg/l  | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 64685    | 55.55   | µg/l  | 74       |

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ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDCCC050

Quant Time: Jun 08 12:03:13 2018  
Quant Method : Z:\V0ASRV\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  | 681478   | 52.09 | ug/l  | 95       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 531231   | 51.62 | ug/l  | 96       |
| 95) Naphthalene            | 14.51 | 128  | 861817   | 51.09 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.65 | 180  | 580458   | 52.06 | ug/l  | 98       |

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

