

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062518\  
 Data File : VD059412.D  
 Acq On : 25 Jun 2018 21:27  
 Operator : VA/AP  
 Sample : J3663-03MS  
 Misc : 5.00µl/5ml/MSVOA D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 WP021SB472-13-15-180618MS

Quant Time: Jun 26 06:49:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 07:29:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 828480   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 6.67  | 114  | 1045197  | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 821311   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 405678   | 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   | 370930   | 43.78  | ug/l   | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 87.56% |          |
| 35) Dibromofluoromethane    | 5.53  | 113  | 377119   | 44.30  | ug/l   | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 88.60% |          |
| 50) Toluene-d8              | 8.70  | 98   | 837455   | 42.08  | ug/l   | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 84.16% |          |
| 62) 4-Bromofluorobenzene    | 11.92 | 95   | 368605   | 44.53  | ug/l   | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 89.06% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.33 | 85   | 348546   | 47.29   | ug/l  | 99     |
| 3) Chloromethane              | 1.47 | 50   | 172435   | 44.96   | ug/l  | # 86   |
| 4) Vinyl Chloride             | 1.54 | 62   | 192692   | 48.42   | ug/l  | 93     |
| 5) Bromomethane               | 1.78 | 94   | 80574    | 59.64   | ug/l  | 97     |
| 6) Chloroethane               | 1.87 | 64   | 87053    | 51.65   | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 2.07 | 101  | 301794   | 52.60   | ug/l  | 96     |
| 8) Diethyl Ether              | 2.33 | 74   | 70115    | 54.01   | ug/l  | 92     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.54 | 101  | 183520   | 51.47   | ug/l  | 95     |
| 10) Methyl Iodide             | 2.67 | 142  | 210610   | 50.57   | ug/l  | 96     |
| 11) Tert butyl alcohol        | 3.26 | 59   | 81801    | 279.09  | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 2.53 | 96   | 136704   | 50.08   | ug/l  | 92     |
| 13) Acrolein                  | 2.46 | 56   | 58125    | 221.83  | ug/l  | 98     |
| 14) Allyl chloride            | 2.90 | 41   | 314143   | 50.28   | ug/l  | 98     |
| 15) Acrylonitrile             | 3.34 | 53   | 216948   | 241.17  | ug/l  | 95     |
| 16) Acetone                   | 2.60 | 43   | 1175477  | 1099.31 | ug/l  | 94     |
| 17) Carbon Disulfide          | 2.74 | 76   | 421202   | 50.38   | ug/l  | 98     |
| 18) Methyl Acetate            | 2.92 | 43   | 135504   | 59.02   | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 3.38 | 73   | 517928   | 38.55   | ug/l  | 99     |
| 20) Methylene Chloride        | 3.05 | 84   | 180016   | 61.27   | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.36 | 96   | 168661   | 34.94   | ug/l  | # 77   |
| 22) Diisopropyl ether         | 4.05 | 45   | 1112347  | 47.31   | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.99 | 43   | 3144458  | 256.71  | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.95 | 63   | 661179   | 49.15   | ug/l  | 99     |
| 25) 2-Butanone                | 4.82 | 43   | 1170046  | 522.35  | ug/l  | 99     |
| 26) 2,2-Dichloropropane       | 4.78 | 77   | 523753   | 50.20   | ug/l  | 95     |
| 27) cis-1,2-Dichloroethene    | 4.78 | 96   | 742394   | 91.53   | ug/l  | 93     |
| 28) Bromochloromethane        | 5.13 | 49   | 251501   | 43.12   | ug/l  | 95     |
| 29) Tetrahydrofuran           | 5.17 | 42   | 296671   | 242.14  | ug/l  | 95     |
| 30) Chloroform                | 5.30 | 83   | 754002   | 51.42   | ug/l  | 95     |
| 31) Cyclohexane               | 5.58 | 56   | 453969   | 51.24   | ug/l  | 98     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97   | 620698   | 52.28   | ug/l  | 97     |
| 36) 1,1-Dichloropropene       | 5.73 | 75   | 469355   | 49.50   | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.91 | 43   | 288578   | 49.98   | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.71 | 117  | 522869   | 53.49   | ug/l  | 98     |

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 ALS Vial : 24 Sample Multiplier: 1

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 MSVOA\_D  
 ClientSampleId :  
 WP021SB472-13-15-180618MS

Quant Time: Jun 26 06:49:12 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D062518S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 07:29:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.27  | 83   | 469338   | 52.19   | µg/l   | 97       |
| 40) Benzene                    | 5.99  | 78   | 1182649  | 51.98   | µg/l   | 97       |
| 41) Methacrylonitrile          | 5.11  | 41   | 142633   | 51.29   | µg/l   | 89       |
| 42) 1,2-Dichloroethane         | 6.11  | 62   | 532848   | 53.00   | µg/l   | 93       |
| 43) Isopropyl Acetate          | 7.61  | 43   | 378303   | 52.17   | µg/l # | 99       |
| 44) Trichloroethene            | 6.97  | 130  | 394560   | 52.96   | µg/l   | 95       |
| 45) 1,2-Dichloropropane        | 7.33  | 63   | 313540   | 49.75   | µg/l   | 97       |
| 46) Dibromomethane             | 7.45  | 93   | 231443   | 51.07   | µg/l   | 89       |
| 47) Bromodichloromethane       | 7.72  | 83   | 538186   | 53.07   | µg/l # | 96       |
| 48) Methyl methacrylate        | 7.49  | 41   | 237311   | 53.72   | µg/l   | 94       |
| 49) 1,4-Dioxane                | 7.48  | 88   | 48838    | 1102.29 | µg/l # | 78       |
| 51) 4-Methyl-2-Pentanone       | 8.58  | 43   | 1935732  | 400.61  | µg/l   | 99       |
| 52) Toluene                    | 8.79  | 92   | 758899   | 55.85   | µg/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.17  | 75   | 453000   | 53.46   | µg/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.35  | 75   | 509874   | 51.96   | µg/l   | 96       |
| 55) 1,1,2-Trichloroethane      | 9.44  | 97   | 269157   | 54.56   | µg/l   | 96       |
| 56) Ethyl methacrylate         | 9.30  | 69   | 303830   | 53.97   | µg/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.65  | 76   | 419947   | 52.05   | µg/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.18  | 63   | 734372   | 253.40  | µg/l   | 99       |
| 59) 2-Hexanone                 | 9.77  | 43   | 1027835  | 299.29  | µg/l   | 98       |
| 60) Dibromochloromethane       | 9.95  | 129  | 375008   | 54.28   | µg/l   | 93       |
| 61) 1,2-Dibromoethane          | 10.08 | 107  | 286806   | 52.20   | µg/l   | 98       |
| 64) Tetrachloroethene          | 9.50  | 164  | 404963   | 56.21   | µg/l   | 98       |
| 65) Chlorobenzene              | 10.72 | 112  | 3653934  | 243.31  | µg/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.84 | 131  | 309152   | 53.63   | µg/l   | 96       |
| 67) Ethyl Benzene              | 10.85 | 91   | 1387279  | 54.74   | µg/l   | 98       |
| 68) m/p-Xylenes                | 11.00 | 106  | 1030759  | 122.60  | µg/l   | 96       |
| 69) o-Xylene                   | 11.40 | 106  | 446316   | 53.69   | µg/l   | 100      |
| 70) Styrene                    | 11.43 | 104  | 740302   | 51.96   | µg/l   | 98       |
| 71) Bromoform                  | 11.59 | 173  | 271718   | 56.90   | µg/l   | 96       |
| 73) Isopropylbenzene           | 11.76 | 105  | 1267276  | 55.36   | µg/l   | 98       |
| 74) N-amyl acetate             | 11.64 | 43   | 593233   | 68.11   | µg/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.07 | 83   | 313549   | 58.38   | µg/l   | 96       |
| 76) 1,2,3-Trichloropropane     | 12.11 | 75   | 323572   | 57.83   | µg/l   | 96       |
| 77) Bromobenzene               | 12.04 | 156  | 387446   | 53.77   | µg/l   | 82       |
| 78) n-propylbenzene            | 12.15 | 91   | 1757053  | 60.60   | µg/l   | 98       |
| 79) 2-Chlorotoluene            | 12.21 | 91   | 970566   | 57.00   | µg/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.31 | 105  | 1365423  | 74.92   | µg/l   | 96       |
| 81) trans-1,4-Dichloro-2-buten | 11.84 | 75   | 74381    | 58.48   | µg/l   | 99       |
| 82) 4-Chlorotoluene            | 12.32 | 91   | 1002845  | 51.94   | µg/l   | 94       |
| 83) tert-Butylbenzene          | 12.57 | 119  | 1015000  | 52.36   | µg/l   | 91       |
| 84) 1,2,4-Trimethylbenzene     | 12.62 | 105  | 2105719  | 109.18  | µg/l   | 93       |
| 85) sec-Butylbenzene           | 12.76 | 105  | 1378116  | 57.93   | µg/l   | 95       |
| 86) p-Isopropyltoluene         | 12.88 | 119  | 1091427  | 56.92   | µg/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.83 | 146  | 1833195  | 154.65  | µg/l   | 93       |
| 88) 1,4-Dichlorobenzene        | 12.92 | 146  | 2951695  | 252.33  | µg/l   | 99       |
| 89) n-Butylbenzene             | 13.19 | 91   | 557373   | 29.45   | µg/l   | 98       |
| 90) Hexachloroethane           | 13.40 | 117  | 301629   | 63.05   | µg/l   | 87       |
| 91) 1,2-Dichlorobenzene        | 13.21 | 146  | 7514819  | 747.71  | µg/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.77 | 75   | 57855    | 65.33   | µg/l   | 78       |

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 ALS Vial : 24 Sample Multiplier: 1

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 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 07:29:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.33 | 180  | 611430   | 65.80  | µg/l  | 94       |
| 94) Hexachlorobutadiene    | 14.43 | 225  | 393954   | 56.34  | µg/l  | 99       |
| 95) Naphthalene            | 14.51 | 128  | 1407874  | 108.71 | µg/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.66 | 180  | 473691   | 56.70  | µg/l  | 98       |

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

