

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102020\  
 Data File : VX018979.D  
 Acq On : 20 Oct 2020 16:56  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Quant Time: Oct 20 18:28:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102020W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 20 18:15:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 158065   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 284053   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.09 | 117  | 263383   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 132053   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 12879    | 6.13 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 12.26% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 9625     | 5.26 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.52% |          |
| 50) Toluene-d8              | 8.70  | 98   | 38445    | 5.36 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.72% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 14722    | 5.48 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =    | 10.96% |          |

| Target Compounds              | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 6754     | 4.950  | ug/l  | 96     |
| 3) Chloromethane              | 1.31 | 50   | 8415     | 5.572  | ug/l  | 97     |
| 4) Vinyl Chloride             | 1.39 | 62   | 11732    | 5.639  | ug/l  | 95     |
| 5) Bromomethane               | 1.62 | 94   | 10283    | 5.993  | ug/l  | 99     |
| 6) Chloroethane               | 1.70 | 64   | 9037     | 5.757  | ug/l  | 95     |
| 7) Trichlorofluoromethane     | 1.91 | 101  | 21063    | 5.940  | ug/l  | 91     |
| 8) Diethyl Ether              | 2.17 | 74   | 8858     | 6.331  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101  | 11583    | 6.108  | ug/l  | 96     |
| 10) Methyl Iodide             | 2.48 | 142  | 7588     | 4.265  | ug/l  | 97     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 13742    | 30.114 | ug/l  | 98     |
| 12) 1,1-Dichloroethene        | 2.35 | 96   | 12363    | 6.071  | ug/l  | 97     |
| 13) Acrolein                  | 2.27 | 56   | 9275     | 33.756 | ug/l  | 95     |
| 14) Allyl chloride            | 2.70 | 41   | 12047    | 5.580  | ug/l  | 98     |
| 15) Acrylonitrile             | 3.11 | 53   | 23286    | 28.569 | ug/l  | 98     |
| 16) Acetone                   | 2.42 | 43   | 21458    | 25.041 | ug/l  | 98     |
| 17) Carbon Disulfide          | 2.54 | 76   | 25164    | 5.691  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.75 | 43   | 9373     | 5.417  | ug/l  | 96     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73   | 30211    | 5.801  | ug/l  | 98     |
| 20) Methylene Chloride        | 2.83 | 84   | 11151    | 6.082  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96   | 10585    | 5.684  | ug/l  | 92     |
| 22) Diisopropyl ether         | 3.82 | 45   | 25418    | 5.868  | ug/l  | 91     |
| 23) Vinyl Acetate             | 3.78 | 43   | 119213   | 28.774 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 3.66 | 63   | 17676    | 5.728  | ug/l  | 98     |
| 25) 2-Butanone                | 4.63 | 43   | 33564    | 28.636 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 4.54 | 77   | 16732    | 5.616  | ug/l  | 99     |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 12299    | 5.669  | ug/l  | 99     |
| 28) Bromochloromethane        | 4.97 | 49   | 7734     | 5.923  | ug/l  | 93     |
| 29) Tetrahydrofuran           | 5.09 | 42   | 18823    | 27.430 | ug/l  | 98     |
| 30) Chloroform                | 5.17 | 83   | 19113    | 5.565  | ug/l  | 97     |
| 31) Cyclohexane               | 5.54 | 56   | 14148    | 5.769  | ug/l  | 91     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97   | 17106    | 5.545  | ug/l  | 98     |
| 36) 1,1-Dichloropropene       | 5.76 | 75   | 14350    | 5.361  | ug/l  | 98     |
| 37) Ethyl Acetate             | 4.78 | 43   | 12808    | 5.582  | ug/l  | 97     |
| 38) Carbon Tetrachloride      | 5.74 | 117  | 14297    | 5.183  | ug/l  | 92     |

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 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Quant Time: Oct 20 18:28:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102020W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 20 18:15:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.43  | 83   | 15798    | 5.401   | ug/l   | 98       |
| 40) Benzene                    | 6.10  | 78   | 42920    | 5.514   | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.99  | 41   | 7069     | 5.597   | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 15530    | 5.776   | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.40  | 43   | 22319    | 5.564   | ug/l   | 100      |
| 44) Trichloroethene            | 7.18  | 130  | 11698    | 5.349   | ug/l   | 94       |
| 45) 1,2-Dichloropropane        | 7.48  | 63   | 10715    | 5.723   | ug/l   | 99       |
| 46) Dibromomethane             | 7.63  | 93   | 7985     | 5.729   | ug/l   | 95       |
| 47) Bromodichloromethane       | 7.87  | 83   | 15174    | 5.426   | ug/l   | 97       |
| 48) Methyl methacrylate        | 7.74  | 41   | 10953    | 5.933   | ug/l   | 94       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 5417     | 116.886 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 67496    | 28.758  | ug/l   | 97       |
| 52) Toluene                    | 8.76  | 92   | 28227    | 5.549   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 17599    | 5.563   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.41  | 75   | 18294    | 5.482   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 11485    | 5.636   | ug/l   | 100      |
| 56) Ethyl methacrylate         | 9.16  | 69   | 16485    | 5.392   | ug/l   | 90       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 18640    | 5.546   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 43219    | 27.905  | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 51444    | 28.315  | ug/l   | 95       |
| 60) Dibromochloromethane       | 9.56  | 129  | 11511    | 5.034   | ug/l   | 97       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 11837    | 5.421   | ug/l   | 97       |
| 64) Tetrachloroethene          | 9.32  | 164  | 10259    | 4.804   | ug/l   | 97       |
| 65) Chlorobenzene              | 10.12 | 112  | 30459    | 5.459   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 10745    | 5.315   | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 53821    | 5.506   | ug/l   | 93       |
| 68) m/p-Xylenes                | 10.34 | 106  | 40791    | 10.689  | ug/l   | 96       |
| 69) o-Xylene                   | 10.68 | 106  | 19498    | 5.400   | ug/l   | 95       |
| 70) Styrene                    | 10.70 | 104  | 32523    | 5.275   | ug/l   | 96       |
| 71) Bromoform                  | 10.84 | 173  | 8036     | 4.906   | ug/l # | 99       |
| 73) Isopropylbenzene           | 11.00 | 105  | 51981    | 5.616   | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 18820    | 5.899   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 18181    | 6.134   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 16791m   | 6.260   | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 11854    | 5.152   | ug/l   | 88       |
| 78) n-propylbenzene            | 11.34 | 91   | 61340    | 5.758   | ug/l   | 96       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 35925    | 5.765   | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 43331    | 5.515   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 6046     | 5.605   | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 43470    | 5.823   | ug/l   | 94       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 42269    | 5.497   | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 44237    | 5.604   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 51449    | 5.579   | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 47608    | 5.594   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 23086    | 5.398   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 24686    | 5.598   | ug/l   | 93       |
| 89) n-Butylbenzene             | 12.37 | 91   | 46164    | 5.943   | ug/l   | 96       |
| 90) Hexachloroethane           | 12.58 | 117  | 7169     | 5.268   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 12.37 | 146  | 22763    | 5.506   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 4210     | 6.179   | ug/l   | 84       |

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 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Quant Time: Oct 20 18:28:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102020W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 20 18:15:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 16298    | 5.751 | ug/l  | 96       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 6498     | 5.383 | ug/l  | 96       |
| 95) Naphthalene            | 13.82 | 128  | 53239    | 5.643 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.00 | 180  | 14377    | 5.307 | ug/l  | 99       |

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

