

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042220\  
 Data File : VX015832.D  
 Acq On : 22 Apr 2020 10:21  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 4/23/2020 11:58:00 AM

Quant Time: Apr 22 12:06:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 22 11:43:26 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 975652   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1475582  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1370454  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 754459   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |      |
|---------------------------|--------|-----|----------|------|-------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 56879    | 4.89 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.78% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 43917    | 4.71 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.42% |      |
| 50) Toluene-d8            | 8.70   | 98  | 176886   | 4.98 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.96% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 73069    | 4.70 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 9.40% |      |

## Target Compounds

|                               |      |     |        |        |        | Qvalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 32761  | 4.154  | ug/l   | 95     |
| 3) Chloromethane              | 1.31 | 50  | 40012  | 4.789  | ug/l   | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 47452  | 4.820  | ug/l   | 94     |
| 5) Bromomethane               | 1.62 | 94  | 18225  | 4.594  | ug/l   | 97     |
| 6) Chloroethane               | 1.71 | 64  | 26717  | 4.732  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 59668  | 4.806  | ug/l   | 98     |
| 8) Diethyl Ether              | 2.17 | 74  | 26641  | 5.312  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 40223  | 4.783  | ug/l   | 96     |
| 10) Methyl Iodide             | 2.49 | 142 | 45600  | 4.727  | ug/l   | 98     |
| 11) Tert butyl alcohol        | 3.01 | 59  | 55631  | 25.322 | ug/l   | 100    |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 42538  | 4.984  | ug/l   | 95     |
| 13) Acrolein                  | 2.27 | 56  | 38800  | 28.804 | ug/l   | 99     |
| 14) Allyl chloride            | 2.71 | 41  | 89292  | 4.886  | ug/l   | 94     |
| 15) Acrylonitrile             | 3.12 | 53  | 131701 | 25.350 | ug/l   | 97     |
| 16) Acetone                   | 2.42 | 43  | 124689 | 24.881 | ug/l   | 96     |
| 17) Carbon Disulfide          | 2.55 | 76  | 150444 | 4.350  | ug/l   | 98     |
| 18) Methyl Acetate            | 2.75 | 43  | 78163  | 4.915  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 152932 | 5.096  | ug/l   | 97     |
| 20) Methylene Chloride        | 2.83 | 84  | 48675  | 4.895  | ug/l   | 92     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 48871  | 5.109  | ug/l   | 97     |
| 22) Diisopropyl ether         | 3.83 | 45  | 168849 | 5.133  | ug/l   | 90     |
| 23) Vinyl Acetate             | 3.79 | 43  | 723654 | 26.312 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 88358  | 5.211  | ug/l   | 99     |
| 25) 2-Butanone                | 4.64 | 43  | 192417 | 25.397 | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 76332  | 5.010  | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene    | 4.57 | 96  | 52627  | 4.917  | ug/l   | 95     |
| 28) Bromochloromethane        | 4.98 | 49  | 47979  | 5.209  | ug/l   | 97     |
| 29) Tetrahydrofuran           | 5.09 | 42  | 128562 | 25.549 | ug/l   | 97     |
| 30) Chloroform                | 5.19 | 83  | 86593  | 5.013  | ug/l   | 92     |
| 31) Cyclohexane               | 5.56 | 56  | 82604  | 5.010  | ug/l   | 92     |
| 32) 1,1,1-Trichloroethane     | 5.47 | 97  | 79479  | 5.214  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 5.78 | 75  | 64211  | 4.958  | ug/l   | 97     |
| 37) Ethyl Acetate             | 4.79 | 43  | 79508  | 5.105  | ug/l # | 97     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 64932  | 5.161  | ug/l   | 93     |

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 Data File : VX015832.D  
 Acq On : 22 Apr 2020 10:21  
 Operator : JC/SP  
 Sample : VSTDIC005  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDIC005

Manual Integrations  
 APPROVED

MMDadoda  
 4/23/2020 11:58:00 AM

Quant Time: Apr 22 12:06:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 22 11:43:26 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 39) Methylcyclohexane          | 7.45  | 83   | 80890    | 4.848  | ug/l   | 99       |
| 40) Benzene                    | 6.12  | 78   | 198964   | 5.017  | ug/l   | 99       |
| 41) Methacrylonitrile          | 5.01  | 41   | 45024    | 6.122  | ug/l # | 96       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 70700    | 4.959  | ug/l   | 96       |
| 43) Isopropyl Acetate          | 6.42  | 43   | 133438   | 5.105  | ug/l   | 98       |
| 44) Trichloroethene            | 7.19  | 130  | 70434    | 5.081  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.50  | 63   | 53983    | 5.239  | ug/l   | 95       |
| 46) Dibromomethane             | 7.64  | 93   | 37526    | 4.839  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.87  | 83   | 64595    | 4.923  | ug/l   | 95       |
| 48) Methyl methacrylate        | 7.75  | 41   | 63370    | 4.979  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 23741    | 96.057 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 388606   | 25.644 | ug/l   | 99       |
| 52) Toluene                    | 8.77  | 92   | 127906   | 5.025  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.03  | 75   | 81378    | 4.978  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 88112    | 5.057  | ug/l   | 100      |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 51643    | 5.264  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 82353    | 5.008  | ug/l   | 97       |
| 57) 1,3-Dichloropropane        | 9.36  | 76   | 86136    | 5.043  | ug/l   | 95       |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 215569   | 25.972 | ug/l   | 99       |
| 59) 2-Hexanone                 | 9.47  | 43   | 299289   | 26.184 | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 47000    | 4.898  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 55144    | 5.035  | ug/l   | 99       |
| 64) Tetrachloroethene          | 9.32  | 164  | 99519    | 5.182  | ug/l   | 92       |
| 65) Chlorobenzene              | 10.12 | 112  | 141466   | 5.112  | ug/l   | 96       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 49429    | 4.869  | ug/l   | 96       |
| 67) Ethyl Benzene              | 10.23 | 91   | 247667   | 5.060  | ug/l   | 97       |
| 68) m/p-Xylenes                | 10.34 | 106  | 186420   | 10.190 | ug/l   | 99       |
| 69) o-Xylene                   | 10.68 | 106  | 89649    | 4.992  | ug/l   | 98       |
| 70) Styrene                    | 10.70 | 104  | 157436   | 5.100  | ug/l   | 98       |
| 71) Bromoform                  | 10.84 | 173  | 28917    | 4.949  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 243244   | 5.044  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 123017   | 5.005  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 51435    | 5.176  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 73484m   | 4.221  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 67064    | 5.131  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.34 | 91   | 277679   | 5.020  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 166151   | 5.046  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 207659   | 5.095  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 27647    | 4.970  | ug/l # | 94       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 198633   | 5.059  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 184572   | 5.092  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 210096   | 4.958  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 244052   | 5.097  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 224391   | 5.035  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 120592   | 5.012  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 122132   | 5.094  | ug/l   | 96       |
| 89) n-Butylbenzene             | 12.37 | 91   | 197439   | 4.971  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 17649    | 4.492  | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 115632   | 5.097  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 14589    | 5.111  | ug/l   | 96       |

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Data File : VX015832.D  
Acq On : 22 Apr 2020 10:21  
Operator : JC/SP  
Sample : VSTDICC005  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

MMDadoda  
4/23/2020 11:58:00 AM

Quant Time: Apr 22 12:06:29 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X042220W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 22 11:43:26 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 92196    | 5.147 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 40229    | 5.048 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 254454   | 4.950 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 84032    | 4.851 | ug/l  | 98       |

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

