

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103118\  
 Data File : VX005706.D  
 Acq On : 31 Oct 2018 14:01  
 Operator : JC/MD  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 11/1/2018 9:48:54 AM

Quant Time: Oct 31 15:52:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 15:44:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 163154   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 274046   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 247839   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 117006   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |  |
|---------------------------|--------|-----|----------|------|-------|--|
| 33) 1,2-Dichloroethane-d4 | 0.00   | 65  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 35) Dibromofluoromethane  | 0.00   | 113 | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 50) Toluene-d8            | 0.00   | 98  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |
| 62) 4-Bromofluorobenzene  | 0.00   | 95  | 0d       | 0.00 | ug/l  |  |
| Spiked Amount             | 50.000 |     | Recovery | =    | 0.00% |  |

## Target Compounds

|                               |      |     |       |       |        | Qvalue |
|-------------------------------|------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 1592  | 0.989 | ug/l   | 93     |
| 3) Chloromethane              | 1.32 | 50  | 2433  | 1.186 | ug/l   | 90     |
| 4) Vinyl Chloride             | 1.41 | 62  | 2501  | 1.240 | ug/l   | 94     |
| 5) Bromomethane               | 1.64 | 94  | 3210  | 2.558 | ug/l   | 88     |
| 6) Chloroethane               | 1.72 | 64  | 1690  | 1.312 | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 3247  | 1.159 | ug/l   | 97     |
| 8) Diethyl Ether              | 2.19 | 74  | 1592  | 1.424 | ug/l   | 94     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.39 | 101 | 2046  | 1.273 | ug/l   | 92     |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 2186  | 1.427 | ug/l   | 95     |
| 14) Allyl chloride            | 2.73 | 41  | 4094  | 1.198 | ug/l   | 90     |
| 15) Acrylonitrile             | 3.14 | 53  | 7637  | 6.355 | ug/l   | 95     |
| 16) Acetone                   | 2.44 | 43  | 8743  | 8.308 | ug/l   | 94     |
| 17) Carbon Disulfide          | 2.57 | 76  | 6905  | 1.479 | ug/l   | 96     |
| 18) Methyl Acetate            | 2.78 | 43  | 3884  | 1.317 | ug/l   | 91     |
| 19) Methyl tert-butyl Ether   | 3.20 | 73  | 6230  | 1.140 | ug/l   | 94     |
| 20) Methylene Chloride        | 2.85 | 84  | 2413  | 1.369 | ug/l   | 88     |
| 21) trans-1,2-Dichloroethene  | 3.17 | 96  | 2304  | 1.378 | ug/l   | 91     |
| 22) Diisopropyl ether         | 3.86 | 45  | 7437  | 1.246 | ug/l # | 87     |
| 23) Vinyl Acetate             | 3.82 | 43  | 29667 | 5.643 | ug/l # | 94     |
| 24) 1,1-Dichloroethane        | 3.70 | 63  | 4322  | 1.332 | ug/l # | 95     |
| 25) 2-Butanone                | 4.70 | 43  | 11073 | 6.909 | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 4.59 | 77  | 3308  | 1.320 | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 2352  | 1.305 | ug/l   | 82     |
| 28) Bromochloromethane        | 5.02 | 49  | 2106  | 1.342 | ug/l # | 96     |
| 29) Tetrahydrofuran           | 5.15 | 42  | 6076  | 5.826 | ug/l   | 96     |
| 30) Chloroform                | 5.21 | 83  | 4334  | 1.428 | ug/l   | 94     |
| 31) Cyclohexane               | 5.57 | 56  | 3196  | 1.190 | ug/l # | 85     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 3230  | 1.206 | ug/l # | 45     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 3261  | 1.226 | ug/l   | 96     |
| 37) Ethyl Acetate             | 4.85 | 43  | 3766  | 1.110 | ug/l # | 95     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 2726  | 0.973 | ug/l   | 87     |
| 39) Methylcyclohexane         | 7.46 | 83  | 3136  | 1.068 | ug/l # | 86     |
| 40) Benzene                   | 6.14 | 78  | 9156  | 1.201 | ug/l   | 93     |
| 41) Methacrylonitrile         | 5.06 | 41  | 2014  | 1.065 | ug/l   | 93     |

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 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDIC001

Manual Integrations  
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 11/1/2018 9:48:54 AM

Quant Time: Oct 31 15:52:45 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 15:44:33 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 3524     | 1.217  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.46  | 43   | 5119     | 1.007  | ug/l   | 97       |
| 44) Trichloroethene            | 7.21  | 130  | 2349     | 1.131  | ug/l   | 79       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 2335     | 1.139  | ug/l # | 88       |
| 46) Dibromomethane             | 7.66  | 93   | 1700     | 1.284  | ug/l # | 82       |
| 47) Bromodichloromethane       | 7.90  | 83   | 2838     | 1.105  | ug/l # | 85       |
| 48) Methyl methacrylate        | 7.77  | 41   | 2395     | 0.967  | ug/l   | 95       |
| 49) 1,4-Dioxane                | 7.76  | 88   | 1039     | 19.190 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone       | 8.65  | 43   | 15521    | 4.541  | ug/l   | 100      |
| 52) Toluene                    | 8.79  | 92   | 4659     | 1.006  | ug/l   | 96       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 2551     | 0.919  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 8.44  | 75   | 2787     | 0.932  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 2116     | 1.083  | ug/l   | 91       |
| 56) Ethyl methacrylate         | 9.18  | 69   | 2540     | 0.872  | ug/l # | 90       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 3596     | 1.088  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 6143     | 3.775  | ug/l   | 98       |
| 59) 2-Hexanone                 | 9.49  | 43   | 13052    | 4.843  | ug/l   | 97       |
| 60) Dibromochloromethane       | 9.58  | 129  | 2008     | 0.985  | ug/l   | 92       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 2138     | 1.058  | ug/l   | 92       |
| 64) Tetrachloroethene          | 9.34  | 164  | 2060     | 1.001  | ug/l # | 77       |
| 65) Chlorobenzene              | 10.14 | 112  | 6092     | 1.154  | ug/l   | 90       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 1901     | 0.988  | ug/l # | 65       |
| 67) Ethyl Benzene              | 10.25 | 91   | 8943     | 1.030  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 6378     | 1.893  | ug/l   | 91       |
| 69) o-Xylene                   | 10.70 | 106  | 2950     | 0.931  | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 4276     | 0.806  | ug/l   | 91       |
| 71) Bromoform                  | 10.86 | 173  | 1352     | 0.787  | ug/l # | 95       |
| 73) Isopropylbenzene           | 11.02 | 105  | 7511     | 1.050  | ug/l   | 96       |
| 74) N-amyl acetate             | 10.90 | 43   | 3570     | 1.007  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 3495     | 1.325  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane     | 11.30 | 75   | 3145m    | 1.269  | ug/l   |          |
| 77) Bromobenzene               | 11.26 | 156  | 2023     | 1.015  | ug/l   | 85       |
| 78) n-propylbenzene            | 11.36 | 91   | 8706     | 1.065  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 5622     | 1.109  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 5621     | 0.919  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.08 | 75   | 849      | 1.119  | ug/l   | 91       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 6486     | 1.085  | ug/l   | 93       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 5686     | 0.932  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 5374     | 0.867  | ug/l   | 92       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 7566     | 1.040  | ug/l   | 97       |
| 86) p-Isopropyltoluene         | 12.07 | 119  | 6353     | 0.977  | ug/l   | 91       |
| 87) 1,3-Dichlorobenzene        | 12.03 | 146  | 4115     | 1.098  | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 5132m    | 1.312  | ug/l   |          |
| 89) n-Butylbenzene             | 12.39 | 91   | 7045     | 1.200  | ug/l   | 98       |
| 90) Hexachloroethane           | 12.60 | 117  | 1219     | 1.086  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 4608     | 1.215  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 13.00 | 75   | 744      | 1.166  | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 2506     | 0.912  | ug/l   | 98       |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 1414     | 0.993  | ug/l   | 90       |
| 95) Naphthalene                | 13.83 | 128  | 6551     | 0.820  | ug/l   | 98       |

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Sample : VSTDICC001  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC001

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Quant Title : SW846 8260  
QLast Update : Wed Oct 31 15:44:33 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 96) 1,2,3-Trichlorobenzene | 14.02 | 180  | 2453     | 0.880 | ug/l  | 99       |

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

