

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU010319\  
 Data File : VU028998.D  
 Acq On : 03 Jan 2019 15:30  
 Operator : MD/SY  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 1/4/2019 9:51:08 AM

Quant Time: Jan 04 02:18:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 01:30:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 130172   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.88  | 114  | 214488   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 193552   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 85664    | 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              | R.T. | QIon | Response | Conc  | Units  | Qvalue |
|-------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85   | 1430     | 1.108 | ug/l   | 88     |
| 3) Chloromethane              | 1.33 | 50   | 3356     | 1.453 | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.40 | 62   | 2036     | 1.070 | ug/l   | 100    |
| 5) Bromomethane               | 1.61 | 94   | 1532     | 1.345 | ug/l   | 85     |
| 6) Chloroethane               | 1.69 | 64   | 1191     | 1.051 | ug/l   | 90     |
| 7) Trichlorofluoromethane     | 1.88 | 101  | 2188     | 1.055 | ug/l   | 98     |
| 8) Diethyl Ether              | 2.10 | 74   | 1006     | 1.010 | ug/l   | 70     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.28 | 101  | 1658     | 1.195 | ug/l # | 95     |
| 12) 1,1-Dichloroethene        | 2.28 | 96   | 1458     | 1.080 | ug/l   | 85     |
| 14) Allyl chloride            | 2.59 | 41   | 2523     | 1.019 | ug/l   | 95     |
| 15) Acrylonitrile             | 2.94 | 53   | 4966     | 4.949 | ug/l   | 96     |
| 16) Acetone                   | 2.32 | 43   | 6210     | 6.126 | ug/l   | 93     |
| 17) Carbon Disulfide          | 2.47 | 76   | 7406     | 1.474 | ug/l   | 97     |
| 18) Methyl Acetate            | 2.62 | 43   | 2683     | 1.138 | ug/l # | 82     |
| 19) Methyl tert-butyl Ether   | 3.00 | 73   | 5163     | 1.088 | ug/l # | 86     |
| 20) Methylene Chloride        | 2.70 | 84   | 1983     | 1.152 | ug/l   | 93     |
| 21) trans-1,2-Dichloroethene  | 2.98 | 96   | 1788     | 1.140 | ug/l   | 91     |
| 22) Diisopropyl ether         | 3.57 | 45   | 4900     | 1.001 | ug/l # | 82     |
| 23) Vinyl Acetate             | 3.53 | 43   | 18545    | 4.634 | ug/l   | 99     |
| 24) 1,1-Dichloroethane        | 3.44 | 63   | 2777     | 0.983 | ug/l # | 83     |
| 25) 2-Butanone                | 4.28 | 43   | 6554     | 4.787 | ug/l   | 94     |
| 26) 2,2-Dichloropropane       | 4.23 | 77   | 2377     | 1.041 | ug/l   | 93     |
| 27) cis-1,2-Dichloroethene    | 4.23 | 96   | 1708     | 0.996 | ug/l   | 88     |
| 28) Bromochloromethane        | 4.55 | 49   | 1240     | 1.025 | ug/l # | 87     |
| 29) Tetrahydrofuran           | 4.65 | 42   | 3960     | 4.769 | ug/l # | 72     |
| 30) Chloroform                | 4.67 | 83   | 2681     | 0.996 | ug/l   | 98     |
| 31) Cyclohexane               | 4.99 | 56   | 4988     | 1.595 | ug/l # | 42     |
| 32) 1,1,1-Trichloroethane     | 4.92 | 97   | 2289     | 1.029 | ug/l # | 50     |
| 36) 1,1-Dichloropropene       | 5.14 | 75   | 2357     | 1.099 | ug/l # | 90     |
| 37) Ethyl Acetate             | 4.40 | 43   | 2389m    | 0.988 | ug/l   |        |
| 38) Carbon Tetrachloride      | 5.13 | 117  | 1704     | 0.953 | ug/l   | 95     |
| 39) Methylcyclohexane         | 6.41 | 83   | 2949     | 1.119 | ug/l   | 90     |
| 40) Benzene                   | 5.39 | 78   | 7030     | 1.051 | ug/l   | 99     |
| 41) Methacrylonitrile         | 4.56 | 41   | 1175     | 0.933 | ug/l # | 76     |

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 Operator : MD/SY  
 Sample : VSTDIC001  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 VSTDIC001

Manual Integrations  
 APPROVED

MMDadoda  
 1/4/2019 9:51:08 AM

Quant Time: Jan 04 02:18:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 01:30:59 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 42) 1,2-Dichloroethane         | 5.40  | 62   | 1814     | 0.903  | ug/l # | 73       |
| 43) Isopropyl Acetate          | 5.56  | 43   | 3240     | 0.898  | ug/l # | 88       |
| 44) Trichloroethene            | 6.19  | 130  | 1841     | 1.111  | ug/l   | 89       |
| 45) 1,2-Dichloropropane        | 6.44  | 63   | 1780     | 1.008  | ug/l # | 85       |
| 46) Dibromomethane             | 6.56  | 93   | 1137     | 1.007  | ug/l   | 96       |
| 47) Bromodichloromethane       | 6.76  | 83   | 2049     | 0.986  | ug/l # | 93       |
| 48) Methyl methacrylate        | 6.63  | 41   | 1320     | 0.751  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 6.62  | 88   | 731      | 17.548 | ug/l # | 88       |
| 51) 4-Methyl-2-Pentanone       | 7.46  | 43   | 11301    | 4.600  | ug/l   | 98       |
| 52) Toluene                    | 7.64  | 92   | 4011     | 0.985  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 7.89  | 75   | 2514     | 1.007  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene    | 7.27  | 75   | 2583     | 0.957  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 8.07  | 97   | 1489     | 0.913  | ug/l   | 95       |
| 56) Ethyl methacrylate         | 8.03  | 69   | 2117     | 0.843  | ug/l   | 92       |
| 57) 1,3-Dichloropropane        | 8.24  | 76   | 2617     | 0.938  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 7.13  | 63   | 4450     | 4.027  | ug/l   | 95       |
| 59) 2-Hexanone                 | 8.37  | 43   | 8355     | 4.332  | ug/l   | 99       |
| 60) Dibromochloromethane       | 8.48  | 129  | 1490     | 0.922  | ug/l   | 89       |
| 61) 1,2-Dibromoethane          | 8.59  | 107  | 1728     | 0.977  | ug/l   | 97       |
| 64) Tetrachloroethene          | 8.22  | 164  | 1488     | 1.067  | ug/l   | 93       |
| 65) Chlorobenzene              | 9.12  | 112  | 4694     | 1.082  | ug/l   | 90       |
| 66) 1,1,1,2-Tetrachloroethane  | 9.21  | 131  | 1350     | 0.959  | ug/l # | 61       |
| 67) Ethyl Benzene              | 9.25  | 91   | 7117     | 0.983  | ug/l   | 96       |
| 68) m/p-Xylenes                | 9.37  | 106  | 5625     | 1.999  | ug/l   | 99       |
| 69) o-Xylene                   | 9.78  | 106  | 2540     | 0.937  | ug/l   | 98       |
| 70) Styrene                    | 9.79  | 104  | 4041     | 0.909  | ug/l   | 97       |
| 71) Bromoform                  | 9.96  | 173  | 1073     | 0.856  | ug/l # | 82       |
| 73) Isopropylbenzene           | 10.17 | 105  | 6875     | 1.084  | ug/l   | 97       |
| 74) N-amyl acetate             | 10.02 | 43   | 2756     | 1.009  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane  | 10.46 | 83   | 2848     | 1.121  | ug/l   | 95       |
| 76) 1,2,3-Trichloropropane     | 10.49 | 75   | 2208m    | 1.052  | ug/l   |          |
| 77) Bromobenzene               | 10.46 | 156  | 1800     | 1.089  | ug/l   | 91       |
| 78) n-propylbenzene            | 10.58 | 91   | 7883     | 1.055  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 10.66 | 91   | 5213     | 1.150  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 10.77 | 105  | 5623     | 1.062  | ug/l   | 91       |
| 81) trans-1,4-Dichloro-2-buten | 10.51 | 75   | 1024m    | 1.246  | ug/l   |          |
| 82) 4-Chlorotoluene            | 10.77 | 91   | 5862     | 1.128  | ug/l   | 96       |
| 83) tert-Butylbenzene          | 11.10 | 119  | 5650     | 1.083  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 11.15 | 105  | 5159     | 0.976  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 11.32 | 105  | 6405     | 1.015  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 11.48 | 119  | 5394     | 1.003  | ug/l   | 95       |
| 87) 1,3-Dichlorobenzene        | 11.42 | 146  | 3607     | 1.190  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 11.50 | 146  | 3884m    | 1.241  | ug/l   |          |
| 89) n-Butylbenzene             | 11.89 | 91   | 4442     | 0.925  | ug/l   | 97       |
| 90) Hexachloroethane           | 12.15 | 117  | 1032     | 1.141  | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene        | 11.88 | 146  | 3525     | 1.155  | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.66 | 75   | 467      | 0.955  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene     | 13.51 | 180  | 2206     | 1.132  | ug/l   | 95       |
| 94) Hexachlorobutadiene        | 13.69 | 225  | 1033     | 1.159  | ug/l   | 91       |
| 95) Naphthalene                | 13.75 | 128  | 8239     | 1.243  | ug/l # | 92       |

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Acq On : 03 Jan 2019 15:30  
Operator : MD/SY  
Sample : VSTDICC001  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDICC001

Manual Integrations  
APPROVED

MMDadoda  
1/4/2019 9:51:08 AM

Quant Time: Jan 04 02:18:15 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 04 01:30:59 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 96) 1,2,3-Trichlorobenzene | 13.99 | 180  | 2709     | 1.307 | ug/l  | 98       |

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

