

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111021\  
 Data File : VU045686.D  
 Acq On : 10 Nov 2021 14:34  
 Operator : SY/MD  
 Sample : VU1110WBS01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1110WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/11/2021  
 Supervised By : Mahesh Dadoda 11/15/2021

Quant Time: Nov 10 15:32:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.375          | 168  | 116698              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.253          | 114  | 203478              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.420          | 117  | 200562              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.816         | 152  | 104137              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.703          | 65   | 90367               | 51.707  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 103.420% |         |        |          |
| 35) Dibromofluoromethane     | 5.292          | 113  | 69940               | 51.483  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 102.960% |         |        |          |
| 50) Toluene-d8               | 7.899          | 98   | 259973              | 51.463  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 102.920% |         |        |          |
| 62) 4-Bromofluorobenzene     | 10.636         | 95   | 101207              | 49.962  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 99.920%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.385          | 85   | 28829               | 19.054  | ug/l   | 99       |
| 3) Chloromethane             | 1.523          | 50   | 32677               | 18.875  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.604          | 62   | 32772               | 19.433  | ug/l   | 98       |
| 5) Bromomethane              | 1.851          | 94   | 22225               | 23.628  | ug/l   | 100      |
| 6) Chloroethane              | 1.932          | 64   | 20227               | 18.379  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 2.141          | 101  | 44139               | 19.793  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.379          | 74   | 17782               | 20.144  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.581          | 101  | 26042               | 19.999  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.723          | 142  | 20481               | 12.019  | ug/l   | 92       |
| 11) Tert butyl alcohol       | 3.176          | 59   | 34716               | 100.357 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.581          | 96   | 24359               | 18.973  | ug/l   | 98       |
| 13) Acrolein                 | 2.488          | 56   | 5104                | 101.818 | ug/l   | 99       |
| 14) Allyl chloride           | 2.925          | 41   | 43163               | 18.828  | ug/l   | 95       |
| 15) Acrylonitrile            | 3.314          | 53   | 93021               | 100.718 | ug/l   | 98       |
| 16) Acetone                  | 2.626          | 43   | 83176               | 93.492  | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.793          | 76   | 62244               | 17.309  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.948          | 43   | 60494               | 19.964  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.366          | 73   | 90520               | 19.587  | ug/l   | 99       |
| 20) Methylene Chloride       | 3.047          | 84   | 30859               | 19.962  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 3.356          | 96   | 26045               | 19.499  | ug/l   | 97       |
| 22) Diisopropyl ether        | 3.996          | 45   | 91798               | 20.394  | ug/l   | 98       |
| 23) Vinyl Acetate            | 3.957          | 43   | 342736              | 98.999  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.874          | 63   | 53970               | 20.120  | ug/l   | 99       |
| 25) 2-Butanone               | 4.703          | 43   | 123950              | 100.452 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 4.671          | 77   | 42914               | 19.307  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.668          | 96   | 31575               | 20.127  | ug/l   | 98       |
| 28) Bromochloromethane       | 4.977          | 49   | 25888               | 20.244  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 5.051          | 42   | 75265               | 99.719  | ug/l   | 99       |
| 30) Chloroform               | 5.092          | 83   | 53698               | 20.242  | ug/l   | 99       |
| 31) Cyclohexane              | 5.391          | 56   | 48592               | 19.055  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.321          | 97   | 45844               | 20.265  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.530          | 75   | 39568               | 19.943  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.803          | 43   | 46220               | 20.280  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.526          | 117  | 38412               | 19.203  | ug/l   | 99       |
| 39) Methylcyclohexane        | 6.768          | 83   | 44877               | 18.437  | ug/l   | 98       |
| 40) Benzene                  | 5.777          | 78   | 114700              | 19.526  | ug/l   | 100      |

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 Operator : SY/MD  
 Sample : VU1110WBS01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1110WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/11/2021  
 Supervised By : Mahesh Dadoda 11/15/2021

Quant Time: Nov 10 15:32:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.973  | 41   | 24488    | 20.332  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 5.797  | 62   | 43068    | 20.298  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 5.912  | 43   | 67967    | 19.497  | ug/l   | 99       |
| 44) Trichloroethene           | 6.546  | 130  | 29366    | 20.885  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 6.793  | 63   | 31687    | 20.387  | ug/l   | 99       |
| 46) Dibromomethane            | 6.922  | 93   | 21512    | 19.975  | ug/l   | 98       |
| 47) Bromodichloromethane      | 7.108  | 83   | 41353    | 20.237  | ug/l   | 98       |
| 48) Methyl methacrylate       | 6.960  | 41   | 31344    | 19.535  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 6.964  | 88   | 16888    | 409.284 | ug/l # | 97       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43   | 233825   | 101.682 | ug/l   | 98       |
| 52) Toluene                   | 7.970  | 92   | 74105    | 20.606  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 8.211  | 75   | 43247    | 18.415  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 7.610  | 75   | 48104    | 19.285  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 8.404  | 97   | 30178    | 20.247  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 8.333  | 69   | 44524    | 18.271  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 8.578  | 76   | 54076    | 20.144  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 7.465  | 63   | 116854   | 85.160  | ug/l   | 100      |
| 59) 2-Hexanone                | 8.684  | 43   | 176550   | 93.110  | ug/l   | 98       |
| 60) Dibromochloromethane      | 8.813  | 129  | 30665    | 19.758  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 31717    | 19.841  | ug/l   | 98       |
| 64) Tetrachloroethene         | 8.555  | 164  | 23974    | 20.826  | ug/l   | 98       |
| 65) Chlorobenzene             | 9.449  | 112  | 75639    | 19.200  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 9.539  | 131  | 27307    | 19.435  | ug/l   | 99       |
| 67) Ethyl Benzene             | 9.571  | 91   | 135270   | 19.174  | ug/l   | 98       |
| 68) m/p-Xylenes               | 9.697  | 106  | 106169   | 39.903  | ug/l   | 100      |
| 69) o-Xylene                  | 10.105 | 106  | 50795    | 19.637  | ug/l   | 99       |
| 70) Styrene                   | 10.118 | 104  | 85677    | 19.578  | ug/l   | 99       |
| 71) Bromoform                 | 10.295 | 173  | 21803    | 18.470  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.488 | 105  | 135293   | 19.884  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.320 | 43   | 53303    | 17.365  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 52801    | 19.586  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 10.825 | 75   | 45016m   | 14.254  | ug/l   |          |
| 77) Bromobenzene              | 10.787 | 156  | 32089    | 19.424  | ug/l   | 96       |
| 78) n-propylbenzene           | 10.909 | 91   | 164387   | 19.411  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 10.989 | 91   | 97934    | 19.574  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 115837   | 19.485  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 10.549 | 75   | 14088    | 16.732  | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 11.099 | 91   | 114545   | 19.521  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.423 | 119  | 108963   | 19.228  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 11.472 | 105  | 117127   | 19.824  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.645 | 105  | 147143   | 19.578  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 11.796 | 119  | 121271   | 19.309  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.748 | 146  | 62088    | 18.627  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 11.838 | 146  | 63725    | 18.903  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.211 | 91   | 110051   | 18.190  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.478 | 117  | 19749    | 17.431  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.214 | 146  | 62310    | 19.214  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 11745    | 18.464  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 39762    | 17.733  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 14.025 | 225  | 16443    | 16.988  | ug/l   | 98       |
| 95) Naphthalene               | 14.089 | 128  | 140712   | 17.378  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 41148    | 18.476  | ug/l   | 99       |

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Sample : VU1110WBS01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1110WBS01

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/11/2021  
Supervised By :Mahesh Dadoda 11/15/2021

Quant Time: Nov 10 15:32:41 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

