

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111221\  
 Data File : VU045759.D  
 Acq On : 12 Nov 2021 11:16  
 Operator : SY/MD  
 Sample : VU1112WBS01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1112WBS01

Quant Time: Nov 15 05:17:19 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

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/15/2021  
 Supervised By : Mahesh Dadoda 11/16/2021

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 5.378          | 168  | 111449              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.253          | 114  | 192896              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.420          | 117  | 188901              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.815         | 152  | 96894               | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.706          | 65   | 84080               | 50.375  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 100.760% |         |        |          |
| 35) Dibromofluoromethane     | 5.292          | 113  | 64921               | 50.410  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 100.820% |         |        |          |
| 50) Toluene-d8               | 7.902          | 98   | 241171              | 50.360  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 100.720% |         |        |          |
| 62) 4-Bromofluorobenzene     | 10.635         | 95   | 91355               | 47.573  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 95.140%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.385          | 85   | 26332               | 18.223  | ug/l   | 97       |
| 3) Chloromethane             | 1.523          | 50   | 29096               | 17.598  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.604          | 62   | 30496               | 18.935  | ug/l   | 100      |
| 5) Bromomethane              | 1.851          | 94   | 19516               | 21.725  | ug/l   | 97       |
| 6) Chloroethane              | 1.932          | 64   | 19769               | 18.809  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 2.137          | 101  | 42266               | 19.846  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.378          | 74   | 16232               | 19.254  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.581          | 101  | 25243               | 20.299  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.723          | 142  | 25169               | 15.466  | ug/l   | 93       |
| 11) Tert butyl alcohol       | 3.176          | 59   | 31237               | 94.553  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 2.581          | 96   | 23377               | 19.066  | ug/l   | 96       |
| 13) Acrolein                 | 2.485          | 56   | 4598                | 96.044  | ug/l   | 90       |
| 14) Allyl chloride           | 2.925          | 41   | 41314               | 18.870  | ug/l   | 96       |
| 15) Acrylonitrile            | 3.314          | 53   | 87358               | 99.041  | ug/l   | 98       |
| 16) Acetone                  | 2.626          | 43   | 87382               | 102.846 | ug/l   | 96       |
| 17) Carbon Disulfide         | 2.793          | 76   | 55970               | 16.297  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.948          | 43   | 56884               | 19.657  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.366          | 73   | 86482               | 19.594  | ug/l   | 100      |
| 20) Methylene Chloride       | 3.047          | 84   | 29117               | 19.723  | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 3.356          | 96   | 25484               | 19.978  | ug/l   | 93       |
| 22) Diisopropyl ether        | 3.996          | 45   | 87200               | 20.285  | ug/l   | 98       |
| 23) Vinyl Acetate            | 3.957          | 43   | 327105              | 98.934  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.870          | 63   | 52294               | 20.414  | ug/l   | 100      |
| 25) 2-Butanone               | 4.700          | 43   | 119313              | 101.248 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.668          | 77   | 42824               | 20.174  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 4.671          | 96   | 30137               | 20.115  | ug/l   | 99       |
| 28) Bromochloromethane       | 4.980          | 49   | 25048               | 20.510  | ug/l   | 99       |
| 29) Tetrahydrofuran          | 5.050          | 42   | 72041               | 99.943  | ug/l   | 98       |
| 30) Chloroform               | 5.092          | 83   | 52739               | 20.817  | ug/l   | 98       |
| 31) Cyclohexane              | 5.391          | 56   | 44715               | 18.361  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.321          | 97   | 44611               | 20.648  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.529          | 75   | 36072               | 19.178  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.806          | 43   | 42302               | 19.579  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 5.529          | 117  | 37506               | 19.779  | ug/l   | 96       |
| 39) Methylcyclohexane        | 6.767          | 83   | 41869               | 18.145  | ug/l   | 97       |
| 40) Benzene                  | 5.777          | 78   | 110212              | 19.792  | ug/l   | 99       |

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 Operator : SY/MD  
 Sample : VU1112WBS01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU1112WBS01

Manual Integrations  
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Reviewed By : John Carlone 11/15/2021  
 Supervised By : Mahesh Dadoda 11/16/2021

Quant Time: Nov 15 05:17:19 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   | 23342    | 20.443  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 5.796  | 62   | 41856    | 20.809  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 5.912  | 43   | 62696    | 18.972  | ug/l   | 98       |
| 44) Trichloroethene           | 6.546  | 130  | 27105    | 20.335  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 6.793  | 63   | 30288    | 20.556  | ug/l   | 99       |
| 46) Dibromomethane            | 6.922  | 93   | 21004    | 20.573  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.108  | 83   | 40412    | 20.861  | ug/l   | 94       |
| 48) Methyl methacrylate       | 6.964  | 41   | 29451    | 19.362  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 6.964  | 88   | 15955    | 407.884 | ug/l # | 98       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43   | 219648   | 100.757 | ug/l   | 99       |
| 52) Toluene                   | 7.973  | 92   | 69405    | 20.358  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.214  | 75   | 41615    | 18.692  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 7.610  | 75   | 47235    | 19.975  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 8.404  | 97   | 29467    | 20.855  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 8.336  | 69   | 42310    | 18.309  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 8.578  | 76   | 51839    | 20.370  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 7.465  | 63   | 101369   | 77.927  | ug/l   | 98       |
| 59) 2-Hexanone                | 8.687  | 43   | 166547   | 92.690  | ug/l   | 99       |
| 60) Dibromochloromethane      | 8.812  | 129  | 30883    | 20.990  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 30488    | 20.118  | ug/l   | 97       |
| 64) Tetrachloroethene         | 8.555  | 164  | 24658    | 22.743  | ug/l   | 98       |
| 65) Chlorobenzene             | 9.449  | 112  | 73777    | 19.883  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 26605    | 20.104  | ug/l   | 98       |
| 67) Ethyl Benzene             | 9.574  | 91   | 127125   | 19.131  | ug/l   | 100      |
| 68) m/p-Xylenes               | 9.697  | 106  | 100625   | 40.154  | ug/l   | 99       |
| 69) o-Xylene                  | 10.105 | 106  | 48233    | 19.797  | ug/l   | 98       |
| 70) Styrene                   | 10.118 | 104  | 80747    | 19.591  | ug/l   | 99       |
| 71) Bromoform                 | 10.295 | 173  | 21520    | 19.207  | ug/l # | 98       |
| 73) Isopropylbenzene          | 10.488 | 105  | 128186   | 20.247  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.320 | 43   | 48552    | 17.000  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 10.787 | 83   | 49956    | 19.916  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 10.825 | 75   | 48289m   | 16.434  | ug/l   |          |
| 77) Bromobenzene              | 10.783 | 156  | 30165    | 19.624  | ug/l   | 98       |
| 78) n-propylbenzene           | 10.909 | 91   | 155939   | 19.790  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 10.989 | 91   | 92696    | 19.912  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.092 | 105  | 109722   | 19.836  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 10.549 | 75   | 13646    | 17.295  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.098 | 91   | 108784   | 19.925  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.423 | 119  | 103781   | 19.682  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 11.471 | 105  | 109063   | 19.839  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.645 | 105  | 139074   | 19.887  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 11.796 | 119  | 114813   | 19.647  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 11.748 | 146  | 59411    | 19.156  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 11.838 | 146  | 60312    | 19.228  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.211 | 91   | 101496   | 18.030  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.478 | 117  | 18539    | 17.586  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.214 | 146  | 59819    | 19.825  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 10016    | 16.923  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 36304    | 17.401  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 14.024 | 225  | 16260    | 18.055  | ug/l   | 99       |
| 95) Naphthalene               | 14.089 | 128  | 127483   | 16.948  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 14.333 | 180  | 39048    | 18.843  | ug/l   | 99       |

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Sample : VU1112WBS01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU1112WBS01

Manual Integrations  
APPROVED

Reviewed By : John Carlone 11/15/2021  
Supervised By : Mahesh Dadoda 11/16/2021

Quant Time: Nov 15 05:17:19 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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

