

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112221\  
 Data File : VU045947.D  
 Acq On : 23 Nov 2021 05:07  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/23/2021  
 Supervised By : Mahesh Dadoda 11/23/2021

Quant Time: Nov 23 06:53:32 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        | 5.376          | 168  | 99466      | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.250          | 114  | 173381     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.417          | 117  | 172126     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.813         | 152  | 91199      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.704          | 65   | 72536      | 48.694   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 97.380%  |        |          |
| 35) Dibromofluoromethane     | 5.292          | 113  | 57630      | 49.785   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 99.580%  |        |          |
| 50) Toluene-d8               | 7.900          | 98   | 218842     | 50.841   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 101.680% |        |          |
| 62) 4-Bromofluorobenzene     | 10.633         | 95   | 85226      | 49.376   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 98.760%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.389          | 85   | 72688      | 56.364   | ug/l   | 99       |
| 3) Chloromethane             | 1.524          | 50   | 70040      | 47.466   | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.607          | 62   | 76776      | 53.414   | ug/l   | 100      |
| 5) Bromomethane              | 1.864          | 94   | 45627      | 56.911   | ug/l   | 98       |
| 6) Chloroethane              | 1.938          | 64   | 46658      | 49.739   | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 2.144          | 101  | 106176     | 55.861   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.379          | 74   | 41037      | 54.542   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 2.588          | 101  | 59239      | 53.374   | ug/l   | 97       |
| 10) Methyl Iodide            | 2.729          | 142  | 68606      | 47.235   | ug/l   | 93       |
| 11) Tert butyl alcohol       | 3.282          | 59   | 80355m     | 272.535  | ug/l   |          |
| 12) 1,1-Dichloroethene       | 2.585          | 96   | 59284      | 54.175   | ug/l   | 94       |
| 13) Acrolein                 | 2.501          | 56   | 11672      | 273.179  | ug/l   | 97       |
| 14) Allyl chloride           | 2.929          | 41   | 100173     | 51.267   | ug/l   | 96       |
| 15) Acrylonitrile            | 3.324          | 53   | 241275     | 306.497  | ug/l   | 99       |
| 16) Acetone                  | 2.655          | 43   | 188191     | 248.179  | ug/l   | 96       |
| 17) Carbon Disulfide         | 2.800          | 76   | 164752     | 53.751   | ug/l   | 100      |
| 18) Methyl Acetate           | 2.958          | 43   | 138109     | 53.474   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 3.366          | 73   | 216058     | 54.850   | ug/l   | 98       |
| 20) Methylene Chloride       | 3.051          | 84   | 69729      | 52.922   | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 3.360          | 96   | 65346      | 57.399   | ug/l   | 94       |
| 22) Diisopropyl ether        | 3.993          | 45   | 196015     | 51.091   | ug/l # | 85       |
| 23) Vinyl Acetate            | 3.961          | 43   | 814272     | 275.950  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 3.874          | 63   | 123134     | 53.858   | ug/l   | 100      |
| 25) 2-Butanone               | 4.716          | 43   | 298272     | 283.605  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.671          | 77   | 88126      | 46.516   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.671          | 96   | 73900      | 55.267   | ug/l   | 96       |
| 28) Bromochloromethane       | 4.977          | 49   | 52534      | 48.198   | ug/l   | 90       |
| 29) Tetrahydrofuran          | 5.060          | 42   | 188707     | 293.334  | ug/l   | 95       |
| 30) Chloroform               | 5.093          | 83   | 123517     | 54.627   | ug/l   | 100      |
| 31) Cyclohexane              | 5.392          | 56   | 105647     | 48.607   | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.321          | 97   | 108347     | 56.190   | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 5.530          | 75   | 91240      | 53.969   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.806          | 43   | 109943     | 56.613   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.527          | 117  | 93033      | 54.584   | ug/l   | 100      |
| 39) Methylcyclohexane        | 6.765          | 83   | 106029     | 51.122   | ug/l   | 95       |
| 40) Benzene                  | 5.777          | 78   | 265870     | 53.118   | ug/l   | 99       |

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 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 11/23/2021  
 Supervised By : Mahesh Dadoda 11/23/2021

Quant Time: Nov 23 06:53:32 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         | 4.977  | 41   | 59206    | 57.690  | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 5.797  | 62   | 98705    | 54.595  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 5.913  | 43   | 159690   | 53.761  | ug/l   | 97       |
| 44) Trichloroethene           | 6.546  | 130  | 70513    | 58.854  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 6.793  | 63   | 69777    | 52.686  | ug/l   | 99       |
| 46) Dibromomethane            | 6.919  | 93   | 50499    | 55.031  | ug/l   | 97       |
| 47) Bromodichloromethane      | 7.109  | 83   | 98481    | 56.560  | ug/l   | 99       |
| 48) Methyl methacrylate       | 6.961  | 41   | 73033    | 53.419  | ug/l   | 93       |
| 49) 1,4-Dioxane               | 7.048  | 88   | 32385    | 921.098 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43   | 551103   | 281.256 | ug/l   | 98       |
| 52) Toluene                   | 7.970  | 92   | 172081   | 56.156  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.211  | 75   | 109481   | 54.711  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 7.610  | 75   | 115809   | 54.486  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 8.401  | 97   | 71707    | 56.462  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 8.334  | 69   | 111491   | 48.995  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 8.575  | 76   | 122603   | 53.599  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 7.465  | 63   | 308527   | 263.876 | ug/l   | 97       |
| 59) 2-Hexanone                | 8.687  | 43   | 434128   | 254.486 | ug/l   | 99       |
| 60) Dibromochloromethane      | 8.813  | 129  | 74748    | 56.522  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 8.925  | 107  | 77590    | 56.963  | ug/l   | 100      |
| 64) Tetrachloroethene         | 8.555  | 164  | 64731    | 65.522  | ug/l   | 98       |
| 65) Chlorobenzene             | 9.446  | 112  | 180364   | 53.346  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 66067    | 54.789  | ug/l   | 97       |
| 67) Ethyl Benzene             | 9.572  | 91   | 334633   | 55.268  | ug/l   | 100      |
| 68) m/p-Xylenes               | 9.694  | 106  | 258686   | 113.287 | ug/l   | 100      |
| 69) o-Xylene                  | 10.102 | 106  | 124972   | 56.294  | ug/l   | 100      |
| 70) Styrene                   | 10.115 | 104  | 215709   | 57.435  | ug/l   | 98       |
| 71) Bromoform                 | 10.292 | 173  | 59793    | 52.242  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.485 | 105  | 333165   | 55.911  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.321 | 43   | 131668   | 48.980  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 10.784 | 83   | 124742   | 52.837  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 10.826 | 75   | 140201   | 50.693  | ug/l   | 92       |
| 77) Bromobenzene              | 10.784 | 156  | 79828    | 55.177  | ug/l   | 91       |
| 78) n-propylbenzene           | 10.906 | 91   | 403995   | 54.473  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 10.986 | 91   | 239232   | 54.598  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 286138   | 54.960  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 10.546 | 75   | 36257    | 43.368  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 11.099 | 91   | 280951   | 54.674  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.420 | 119  | 268476   | 54.096  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.469 | 105  | 287749   | 55.610  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.645 | 105  | 358074   | 54.401  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 11.793 | 119  | 296057   | 53.826  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.745 | 146  | 155908   | 53.410  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 11.835 | 146  | 158646   | 53.735  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.208 | 91   | 271840   | 51.307  | ug/l   | 99       |
| 90) Hexachloroethane          | 12.475 | 117  | 44809    | 45.160  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 12.211 | 146  | 153793   | 54.152  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.999 | 75   | 29569    | 53.079  | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 13.841 | 180  | 104866   | 53.403  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 14.022 | 225  | 42954    | 50.675  | ug/l   | 98       |
| 95) Naphthalene               | 14.086 | 128  | 383636   | 51.926  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 104662   | 53.660  | ug/l   | 98       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 47 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050EC

Manual Integrations  
APPROVED

Reviewed By :John Carlone 11/23/2021  
Supervised By :Mahesh Dadoda 11/23/2021

Quant Time: Nov 23 06:53:32 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

