

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062722\  
 Data File : VU049419.D  
 Acq On : 27 Jun 2022 21:58  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 28 05:29:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 05:14:22 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.372          | 168  | 240130     | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.247          | 114  | 436745     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.417          | 117  | 393457     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.812         | 152  | 186558     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.700          | 65   | 184869     | 49.989  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 99.980% |        |          |
| 35) Dibromofluoromethane     | 5.288          | 113  | 146828     | 48.052  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 96.100% |        |          |
| 50) Toluene-d8               | 7.896          | 98   | 524016     | 48.082  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 96.160% |        |          |
| 62) 4-Bromofluorobenzene     | 10.632         | 95   | 200345     | 47.989  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 95.980% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.382          | 85   | 167931     | 43.520  | ug/l   | 100      |
| 3) Chloromethane             | 1.520          | 50   | 208386     | 44.069  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.604          | 62   | 176987     | 45.558  | ug/l   | 99       |
| 5) Bromomethane              | 1.845          | 94   | 59706      | 49.426  | ug/l   | 99       |
| 6) Chloroethane              | 1.919          | 64   | 100162     | 55.664  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 2.128          | 101  | 215686     | 43.563  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.375          | 74   | 96174      | 53.775  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.575          | 101  | 127107     | 47.715  | ug/l   | 96       |
| 10) Methyl Iodide            | 2.716          | 142  | 157346     | 58.586  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 3.192          | 59   | 300348m    | 346.987 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 2.575          | 96   | 129760     | 49.752  | ug/l   | 91       |
| 13) Acrolein                 | 2.485          | 56   | 126352     | 215.550 | ug/l   | 99       |
| 14) Allyl chloride           | 2.919          | 41   | 267774     | 50.801  | ug/l # | 87       |
| 15) Acrylonitrile            | 3.311          | 53   | 581321     | 279.240 | ug/l   | 99       |
| 16) Acetone                  | 2.629          | 43   | 475092     | 254.747 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.787          | 76   | 374701     | 46.068  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.948          | 43   | 268308     | 53.146  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 3.362          | 73   | 532182     | 54.863  | ug/l   | 99       |
| 20) Methylene Chloride       | 3.041          | 84   | 170389     | 54.958  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 3.350          | 96   | 142201     | 50.578  | ug/l   | 91       |
| 22) Diisopropyl ether        | 3.993          | 45   | 528534     | 52.518  | ug/l # | 70       |
| 23) Vinyl Acetate            | 3.954          | 43   | 2403344    | 272.459 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 3.867          | 63   | 293104     | 50.703  | ug/l   | 97       |
| 25) 2-Butanone               | 4.700          | 43   | 790111     | 282.697 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 4.661          | 77   | 197197     | 40.986  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.665          | 96   | 173002     | 53.257  | ug/l   | 93       |
| 28) Bromochloromethane       | 4.973          | 49   | 127665     | 50.524  | ug/l # | 78       |
| 29) Tetrahydrofuran          | 5.050          | 42   | 524929     | 273.781 | ug/l   | 89       |
| 30) Chloroform               | 5.089          | 83   | 286704     | 50.137  | ug/l   | 99       |
| 31) Cyclohexane              | 5.385          | 56   | 253980     | 45.738  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 5.314          | 97   | 243464     | 49.070  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 5.526          | 75   | 199494     | 45.027  | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.803          | 43   | 294404     | 48.628  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 5.523          | 117  | 206284     | 44.396  | ug/l   | 99       |
| 39) Methylcyclohexane        | 6.761          | 83   | 239102     | 45.023  | ug/l   | 93       |
| 40) Benzene                  | 5.771          | 78   | 638851     | 47.759  | ug/l   | 100      |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/28/2022  
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 28 05:29:16 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 05:14:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.970  | 41   | 153840   | 50.712   | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 5.793  | 62   | 230589   | 46.317   | ug/l   | 100      |
| 43) Isopropyl Acetate         | 5.912  | 43   | 445840   | 50.258   | ug/l   | 97       |
| 44) Trichloroethene           | 6.542  | 130  | 149523   | 47.022   | ug/l   | 87       |
| 45) 1,2-Dichloropropane       | 6.790  | 63   | 175232   | 47.277   | ug/l   | 99       |
| 46) Dibromomethane            | 6.919  | 93   | 119453   | 48.339   | ug/l   | 90       |
| 47) Bromodichloromethane      | 7.105  | 83   | 226566   | 47.635   | ug/l   | 99       |
| 48) Methyl methacrylate       | 6.960  | 41   | 212247   | 51.054   | ug/l   | 89       |
| 49) 1,4-Dioxane               | 6.976  | 88   | 119205   | 1119.198 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.793  | 43   | 1471699  | 247.886  | ug/l   | 97       |
| 52) Toluene                   | 7.967  | 92   | 385122   | 48.440   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.211  | 75   | 248349   | 48.677   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 7.607  | 75   | 269557   | 49.483   | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 8.401  | 97   | 165435   | 50.328   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 8.333  | 69   | 292916   | 53.278   | ug/l   | 93       |
| 57) 1,3-Dichloropropane       | 8.574  | 76   | 286211   | 49.083   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 7.462  | 63   | 154565   | 354.699  | ug/l   | 95       |
| 59) 2-Hexanone                | 8.684  | 43   | 1172815  | 251.203  | ug/l   | 96       |
| 60) Dibromochloromethane      | 8.809  | 129  | 169218   | 49.504   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 8.922  | 107  | 177937   | 49.672   | ug/l   | 99       |
| 64) Tetrachloroethene         | 8.552  | 164  | 116223   | 46.054   | ug/l   | 94       |
| 65) Chlorobenzene             | 9.446  | 112  | 398253   | 49.511   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 9.536  | 131  | 153229   | 50.497   | ug/l   | 97       |
| 67) Ethyl Benzene             | 9.571  | 91   | 729612   | 49.408   | ug/l   | 97       |
| 68) m/p-Xylenes               | 9.693  | 106  | 535417   | 97.992   | ug/l   | 89       |
| 69) o-Xylene                  | 10.098 | 106  | 273277   | 50.381   | ug/l   | 90       |
| 70) Styrene                   | 10.115 | 104  | 451693   | 51.826   | ug/l   | 96       |
| 71) Bromoform                 | 10.291 | 173  | 132927   | 51.077   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.484 | 105  | 703008   | 52.899   | ug/l   | 96       |
| 74) N-amyl acetate            | 10.320 | 43   | 385421   | 54.796   | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 298256   | 52.981   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 10.825 | 75   | 336554   | 53.217   | ug/l   | 97       |
| 77) Bromobenzene              | 10.780 | 156  | 168578   | 51.968   | ug/l   | 83       |
| 78) n-propylbenzene           | 10.906 | 91   | 826381   | 51.174   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 10.986 | 91   | 503503   | 50.608   | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 11.089 | 105  | 595325   | 51.312   | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 10.545 | 75   | 90031    | 52.572   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.095 | 91   | 562178   | 50.241   | ug/l   | 94       |
| 83) tert-Butylbenzene         | 11.420 | 119  | 588785   | 51.595   | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 11.468 | 105  | 602963   | 52.901   | ug/l   | 94       |
| 85) sec-Butylbenzene          | 11.642 | 105  | 706844   | 49.266   | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 11.793 | 119  | 589050   | 50.768   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 11.745 | 146  | 306586   | 49.436   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 11.835 | 146  | 303728   | 48.726   | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.208 | 91   | 527068   | 49.072   | ug/l   | 98       |
| 90) Hexachloroethane          | 12.475 | 117  | 108224   | 46.829   | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 12.211 | 146  | 314715   | 50.505   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.995 | 75   | 78999    | 54.727   | ug/l   | 82       |
| 93) 1,2,4-Trichlorobenzene    | 13.838 | 180  | 208276   | 49.811   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 14.021 | 225  | 82170    | 42.509   | ug/l   | 99       |
| 95) Naphthalene               | 14.085 | 128  | 840599   | 57.291   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180  | 220679   | 51.299   | ug/l   | 95       |

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Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

Reviewed By :John Carlone 06/28/2022  
Supervised By :Mahesh Dadoda 06/28/2022

Quant Time: Jun 28 05:29:16 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 28 05:14:22 2022  
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

