

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062722\  
 Data File : VU049445.D  
 Acq On : 28 Jun 2022 08:33  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

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

Quant Time: Jun 28 08:46:30 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  | 227684              | 50.000  | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.247          | 114  | 431455              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 9.417          | 117  | 402805              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 11.809         | 152  | 196596              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.700          | 65   | 183438              | 52.314  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = 104.620% |         |        |          |
| 35) Dibromofluoromethane     | 5.289          | 113  | 146892              | 48.663  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 97.320%  |         |        |          |
| 50) Toluene-d8               | 7.896          | 98   | 531593              | 49.375  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = 98.760%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 10.632         | 95   | 208096              | 50.456  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 100.920% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.385          | 85   | 145297              | 39.713  | ug/l   | 99       |
| 3) Chloromethane             | 1.520          | 50   | 203289              | 45.364  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.604          | 62   | 162117              | 44.012  | ug/l   | 98       |
| 5) Bromomethane              | 1.851          | 94   | 57917               | 50.566  | ug/l   | 97       |
| 6) Chloroethane              | 1.922          | 64   | 91290               | 53.581  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 2.131          | 101  | 203449              | 43.338  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.375          | 74   | 92414               | 54.497  | ug/l   | 87       |
| 9) 1,1,2-Trichlorotrifluo... | 2.578          | 101  | 115508              | 45.731  | ug/l   | 95       |
| 10) Methyl Iodide            | 2.719          | 142  | 150508              | 59.037  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 3.192          | 59   | 251082m             | 305.927 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 2.578          | 96   | 122390              | 49.492  | ug/l   | 95       |
| 13) Acrolein                 | 2.485          | 56   | 115378              | 207.588 | ug/l   | 98       |
| 14) Allyl chloride           | 2.919          | 41   | 238687              | 47.758  | ug/l # | 88       |
| 15) Acrylonitrile            | 3.311          | 53   | 548249              | 277.750 | ug/l   | 99       |
| 16) Acetone                  | 2.629          | 43   | 439966              | 248.808 | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.790          | 76   | 348195              | 45.149  | ug/l   | 99       |
| 18) Methyl Acetate           | 2.948          | 43   | 261076              | 54.541  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 3.363          | 73   | 509316              | 55.375  | ug/l   | 98       |
| 20) Methylene Chloride       | 3.041          | 84   | 164670              | 56.031  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 3.350          | 96   | 137349              | 51.522  | ug/l   | 95       |
| 22) Diisopropyl ether        | 3.990          | 45   | 517095              | 54.190  | ug/l # | 76       |
| 23) Vinyl Acetate            | 3.954          | 43   | 2254313             | 269.534 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 3.867          | 63   | 285806              | 52.143  | ug/l   | 98       |
| 25) 2-Butanone               | 4.700          | 43   | 732741              | 276.501 | ug/l   | 95       |
| 26) 2,2-Dichloropropane      | 4.662          | 77   | 122212              | 26.789  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 4.665          | 96   | 170656              | 55.406  | ug/l   | 97       |
| 28) Bromochloromethane       | 4.973          | 49   | 127621              | 53.267  | ug/l # | 80       |
| 29) Tetrahydrofuran          | 5.051          | 42   | 489554              | 269.288 | ug/l   | 89       |
| 30) Chloroform               | 5.089          | 83   | 285034              | 52.570  | ug/l   | 99       |
| 31) Cyclohexane              | 5.385          | 56   | 235388              | 44.708  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 5.314          | 97   | 233086              | 49.546  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 5.526          | 75   | 191012              | 43.641  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.800          | 43   | 281149              | 47.008  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 5.523          | 117  | 196422              | 42.791  | ug/l   | 99       |
| 39) Methylcyclohexane        | 6.761          | 83   | 220526              | 42.035  | ug/l   | 93       |
| 40) Benzene                  | 5.774          | 78   | 632131              | 47.836  | ug/l   | 99       |

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 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTDCCC050EC

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

Quant Time: Jun 28 08:46:30 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   | 147475   | 49.210  | ug/l   | 89       |
| 42) 1,2-Dichloroethane        | 5.793  | 62   | 229190   | 46.601  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 5.909  | 43   | 429393   | 48.997  | ug/l   | 97       |
| 44) Trichloroethene           | 6.542  | 130  | 147117   | 46.832  | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 6.790  | 63   | 177097   | 48.366  | ug/l   | 100      |
| 46) Dibromomethane            | 6.915  | 93   | 121178   | 49.638  | ug/l   | 90       |
| 47) Bromodichloromethane      | 7.105  | 83   | 225334   | 47.957  | ug/l   | 99       |
| 48) Methyl methacrylate       | 6.957  | 41   | 206382   | 50.252  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 6.986  | 88   | 99522    | 945.854 | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.790  | 43   | 1428185  | 243.506 | ug/l   | 97       |
| 52) Toluene                   | 7.967  | 92   | 384556   | 48.962  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 8.208  | 75   | 233721   | 46.372  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 7.607  | 75   | 247829   | 46.052  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 8.398  | 97   | 163886   | 50.468  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 8.333  | 69   | 290058   | 53.405  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 8.575  | 76   | 288085   | 50.010  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 7.462  | 63   | 178387   | 412.256 | ug/l   | 95       |
| 59) 2-Hexanone                | 8.684  | 43   | 1117056  | 242.194 | ug/l   | 96       |
| 60) Dibromochloromethane      | 8.809  | 129  | 170761   | 50.567  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 8.922  | 107  | 178461   | 50.429  | ug/l   | 99       |
| 64) Tetrachloroethene         | 8.552  | 164  | 115012   | 44.517  | ug/l   | 92       |
| 65) Chlorobenzene             | 9.446  | 112  | 401470   | 48.753  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 9.533  | 131  | 153870   | 49.532  | ug/l   | 99       |
| 67) Ethyl Benzene             | 9.568  | 91   | 739094   | 48.889  | ug/l   | 96       |
| 68) m/p-Xylenes               | 9.693  | 106  | 546478   | 97.696  | ug/l   | 90       |
| 69) o-Xylene                  | 10.099 | 106  | 278847   | 50.214  | ug/l   | 89       |
| 70) Styrene                   | 10.111 | 104  | 459834   | 51.536  | ug/l   | 96       |
| 71) Bromoform                 | 10.292 | 173  | 132462   | 49.717  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.484 | 105  | 700026   | 49.985  | ug/l   | 96       |
| 74) N-amyl acetate            | 10.320 | 43   | 378486   | 51.063  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 10.783 | 83   | 298063   | 50.243  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 10.822 | 75   | 317429   | 47.630  | ug/l   | 100      |
| 77) Bromobenzene              | 10.780 | 156  | 173320   | 50.701  | ug/l   | 85       |
| 78) n-propylbenzene           | 10.902 | 91   | 819391   | 48.150  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 10.986 | 91   | 514842   | 49.105  | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 607172   | 49.661  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-b... | 10.546 | 75   | 76594    | 42.442  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 11.095 | 91   | 578842   | 49.089  | ug/l   | 94       |
| 83) tert-Butylbenzene         | 11.420 | 119  | 592760   | 49.292  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 614968   | 51.200  | ug/l   | 95       |
| 85) sec-Butylbenzene          | 11.642 | 105  | 712075   | 47.097  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 11.793 | 119  | 590499   | 48.294  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 11.745 | 146  | 314984   | 48.196  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 11.835 | 146  | 310859   | 47.323  | ug/l   | 96       |
| 89) n-Butylbenzene            | 12.208 | 91   | 520794   | 46.013  | ug/l   | 98       |
| 90) Hexachloroethane          | 12.475 | 117  | 108415   | 44.517  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 12.211 | 146  | 329822   | 50.227  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.996 | 75   | 77150    | 50.718  | ug/l   | 83       |
| 93) 1,2,4-Trichlorobenzene    | 13.838 | 180  | 213470   | 48.495  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 14.021 | 225  | 81615    | 40.066  | ug/l   | 100      |
| 95) Naphthalene               | 14.086 | 128  | 859748   | 55.655  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 227171   | 50.139  | ug/l   | 97       |

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Manual Integrations  
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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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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