

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042424\  
 Data File : VX041233.D  
 Acq On : 24 Apr 2024 14:50  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/25/2024  
 Supervised By : Mahesh Dadoda 04/25/2024

Quant Time: Apr 25 05:54:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042224W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:30:28 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.543          | 168  | 235759     | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 322828     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 295790     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 144584     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 102668     | 45.747   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 91.500%  |        |          |
| 35) Dibromofluoromethane     | 5.379          | 113  | 89997      | 45.830   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 91.660%  |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 300052     | 45.288   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 90.580%# |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 99203      | 40.567   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 81.140%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 88928      | 47.690   | ug/l   | 99       |
| 3) Chloromethane             | 1.300          | 50   | 87633      | 43.407   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.373          | 62   | 93700      | 46.412   | ug/l   | 100      |
| 5) Bromomethane              | 1.593          | 94   | 53758      | 47.291   | ug/l   | 100      |
| 6) Chloroethane              | 1.666          | 64   | 32688      | 42.618   | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.861          | 101  | 142361     | 45.508   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 51352      | 44.607   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 2.312          | 101  | 80403      | 43.684   | ug/l # | 87       |
| 10) Methyl Iodide            | 2.440          | 142  | 64719      | 29.159   | ug/l   | 91       |
| 11) Tert butyl alcohol       | 3.032          | 59   | 97253      | 241.889  | ug/l # | 94       |
| 12) 1,1-Dichloroethene       | 2.306          | 96   | 72861      | 42.406   | ug/l   | 87       |
| 13) Acrolein                 | 2.239          | 56   | 99320      | 220.210  | ug/l   | 97       |
| 14) Allyl chloride           | 2.654          | 41   | 121619     | 43.573   | ug/l # | 93       |
| 15) Acrylonitrile            | 3.068          | 53   | 217751     | 211.948  | ug/l   | 99       |
| 16) Acetone                  | 2.392          | 43   | 188356     | 230.574  | ug/l   | 95       |
| 17) Carbon Disulfide         | 2.501          | 76   | 154740     | 43.113   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.709          | 43   | 100136     | 41.438   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 3.117          | 73   | 260444     | 42.402   | ug/l   | 98       |
| 20) Methylene Chloride       | 2.782          | 84   | 80324      | 40.261   | ug/l   | 93       |
| 21) trans-1,2-Dichloroethene | 3.080          | 96   | 75021      | 39.512   | ug/l   | 90       |
| 22) Diisopropyl ether        | 3.763          | 45   | 253649     | 42.032   | ug/l   | 87       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1173787    | 227.360  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 139112     | 41.238   | ug/l   | 97       |
| 25) 2-Butanone               | 4.562          | 43   | 308778     | 221.330  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.464          | 77   | 123815     | 43.428   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.483          | 96   | 94861      | 40.308   | ug/l   | 91       |
| 28) Bromochloromethane       | 4.897          | 49   | 50042      | 39.090   | ug/l # | 77       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 215911     | 227.174  | ug/l   | 95       |
| 30) Chloroform               | 5.086          | 83   | 184239     | 50.884   | ug/l   | 97       |
| 31) Cyclohexane              | 5.458          | 56   | 143987     | 47.671   | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 166731     | 51.368   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.684          | 75   | 121136     | 48.211   | ug/l   | 95       |
| 37) Ethyl Acetate            | 4.714          | 43   | 124927     | 45.317   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.665          | 117  | 145226     | 51.748   | ug/l   | 98       |
| 39) Methylcyclohexane        | 7.372          | 83   | 164510     | 49.362   | ug/l   | 93       |
| 40) Benzene                  | 6.031          | 78   | 380871     | 49.082   | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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Quant Time: Apr 25 05:54:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X042224W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 05:30:28 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 67634    | 47.127   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 6.080  | 62   | 137610   | 51.145   | ug/l   | 94       |
| 43) Isopropyl Acetate         | 6.342  | 43   | 231991   | 52.241   | ug/l   | 97       |
| 44) Trichloroethene           | 7.116  | 130  | 109385   | 48.484   | ug/l   | 88       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 92384    | 49.653   | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 70559    | 50.858   | ug/l # | 77       |
| 47) Bromodichloromethane      | 7.817  | 83   | 137834   | 53.898   | ug/l   | 97       |
| 48) Methyl methacrylate       | 7.695  | 41   | 114896   | 54.701   | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.671  | 88   | 49948    | 1104.827 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 763668   | 274.740  | ug/l   | 97       |
| 52) Toluene                   | 8.714  | 92   | 251449   | 51.425   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 138284   | 55.128   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 151077   | 52.980   | ug/l   | 91       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 100821   | 52.843   | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 162483   | 55.706   | ug/l   | 95       |
| 57) 1,3-Dichloropropane       | 9.305  | 76   | 163444   | 51.750   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 357156   | 251.588  | ug/l   | 92       |
| 59) 2-Hexanone                | 9.433  | 43   | 589778   | 276.695  | ug/l   | 96       |
| 60) Dibromochloromethane      | 9.518  | 129  | 121423   | 55.130   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 107372   | 52.452   | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.268  | 164  | 106043   | 46.745   | ug/l   | 92       |
| 65) Chlorobenzene             | 10.079 | 112  | 294224   | 48.333   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131  | 107194   | 51.409   | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.189 | 91   | 452380   | 46.566   | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.299 | 106  | 386050   | 98.439   | ug/l   | 92       |
| 69) o-Xylene                  | 10.640 | 106  | 190252   | 49.880   | ug/l   | 94       |
| 70) Styrene                   | 10.652 | 104  | 325424   | 52.443   | ug/l   | 95       |
| 71) Bromoform                 | 10.799 | 173  | 99946    | 56.065   | ug/l # | 100      |
| 73) Isopropylbenzene          | 10.963 | 105  | 449597   | 49.977   | ug/l   | 96       |
| 74) N-amyl acetate            | 10.841 | 43   | 208511   | 58.975   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 136725   | 48.193   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 109402m  | 46.964   | ug/l   |          |
| 77) Bromobenzene              | 11.195 | 156  | 122963   | 46.970   | ug/l   | 77       |
| 78) n-propylbenzene           | 11.305 | 91   | 472551   | 48.648   | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 284715   | 46.318   | ug/l   | 92       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 357508   | 47.769   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 39319    | 47.620   | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.451 | 91   | 330896   | 47.502   | ug/l   | 92       |
| 83) tert-Butylbenzene         | 11.713 | 119  | 386847   | 48.268   | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 360410   | 48.519   | ug/l   | 93       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 462942   | 50.021   | ug/l   | 95       |
| 86) p-Isopropyltoluene        | 12.006 | 119  | 411224   | 50.420   | ug/l   | 94       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 224793   | 47.802   | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 226803   | 47.006   | ug/l   | 95       |
| 89) n-Butylbenzene            | 12.329 | 91   | 331681   | 53.561   | ug/l   | 98       |
| 90) Hexachloroethane          | 12.536 | 117  | 68272    | 50.746   | ug/l   | 61       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 227543   | 48.310   | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 30787    | 51.719   | ug/l   | 58       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 166502   | 50.985   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 83531    | 50.064   | ug/l   | 100      |
| 95) Naphthalene               | 13.774 | 128  | 470935   | 50.190   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 168583   | 49.009   | ug/l   | 94       |

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ALS Vial : 8 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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Supervised By :Mahesh Dadoda 04/25/2024

Quant Time: Apr 25 05:54:58 2024  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

