

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX042222\  
 Data File : VX028272.D  
 Acq On : 22 Apr 2022 12:14  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/25/2022  
 Supervised By : Mahesh Dadoda 04/25/2022

Quant Time: Apr 22 15:53:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 411175     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.757          | 114  | 619960     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 579081     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 321605     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 227187     | 42.376  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 84.760% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 215758     | 49.625  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 99.260% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 793173     | 47.499  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 95.000% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 305425     | 47.835  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 95.680% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 188290     | 70.940  | ug/l   | 99       |
| 3) Chloromethane             | 1.288          | 50   | 158842     | 59.836  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 194846     | 47.006  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 198171     | 54.375  | ug/l   | 99       |
| 6) Chloroethane              | 1.679          | 64   | 133450     | 44.614  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 362696     | 39.679  | ug/l   | 97       |
| 8) Diethyl Ether             | 2.130          | 74   | 129292     | 46.885  | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 192900     | 57.934  | ug/l   | 95       |
| 10) Methyl Iodide            | 2.453          | 142  | 261794     | 56.707  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 2.965          | 59   | 224523     | 217.384 | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 179163     | 56.698  | ug/l   | 89       |
| 13) Acrolein                 | 2.233          | 56   | 194327     | 295.757 | ug/l   | 99       |
| 14) Allyl chloride           | 2.660          | 41   | 244353     | 46.084  | ug/l   | 93       |
| 15) Acrylonitrile            | 3.062          | 53   | 493934     | 226.077 | ug/l   | 99       |
| 16) Acetone                  | 2.373          | 43   | 475913     | 290.863 | ug/l   | 97       |
| 17) Carbon Disulfide         | 2.508          | 76   | 409600     | 48.133  | ug/l   | 100      |
| 18) Methyl Acetate           | 2.697          | 43   | 217606     | 45.650  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 626283     | 47.528  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.788          | 84   | 201692     | 50.703  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 202148     | 47.039  | ug/l   | 90       |
| 22) Diisopropyl ether        | 3.757          | 45   | 525668     | 43.527  | ug/l # | 88       |
| 23) Vinyl Acetate            | 3.721          | 43   | 2315451    | 219.456 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 3.605          | 63   | 329302     | 46.180  | ug/l   | 98       |
| 25) 2-Butanone               | 4.550          | 43   | 696937     | 219.499 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 4.471          | 77   | 307386     | 44.150  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 238507     | 46.545  | ug/l   | 90       |
| 28) Bromochloromethane       | 4.897          | 49   | 127534     | 41.686  | ug/l   | 82       |
| 29) Tetrahydrofuran          | 4.995          | 42   | 422362     | 204.010 | ug/l   | 97       |
| 30) Chloroform               | 5.093          | 83   | 373114     | 43.569  | ug/l   | 99       |
| 31) Cyclohexane              | 5.471          | 56   | 277383     | 42.467  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 347590     | 44.823  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 269022     | 47.436  | ug/l   | 96       |
| 37) Ethyl Acetate            | 4.708          | 43   | 261080     | 45.370  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 311325     | 48.628  | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 338997     | 47.374  | ug/l   | 96       |
| 40) Benzene                  | 6.037          | 78   | 788749     | 47.513  | ug/l   | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Reviewed By : John Carlone 04/25/2022  
 Supervised By : Mahesh Dadoda 04/25/2022

Quant Time: Apr 22 15:53:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X041922W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 19 13:38:04 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.916  | 41   | 134617   | 45.342  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 277631   | 45.053  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 420674   | 44.918  | ug/l   | 98       |
| 44) Trichloroethene           | 7.123  | 130  | 250524   | 52.040  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 189246   | 46.573  | ug/l   | 96       |
| 46) Dibromomethane            | 7.580  | 93   | 152429   | 47.820  | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.824  | 83   | 285853   | 46.659  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.690  | 41   | 194338   | 45.197  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.659  | 88   | 101558   | 882.897 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 1343331  | 223.518 | ug/l   | 98       |
| 52) Toluene                   | 8.720  | 92   | 539300   | 46.760  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 314656   | 48.327  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 334031   | 47.775  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 225100   | 48.036  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 331556   | 48.811  | ug/l # | 95       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 352001   | 46.540  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 731244   | 229.440 | ug/l   | 90       |
| 59) 2-Hexanone                | 9.433  | 43   | 1071733  | 230.213 | ug/l   | 97       |
| 60) Dibromochloromethane      | 9.525  | 129  | 250222   | 48.981  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 245412   | 47.737  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 246992   | 54.606  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.079 | 112  | 624368   | 50.570  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 237808   | 51.706  | ug/l   | 98       |
| 67) Ethyl Benzene             | 10.195 | 91   | 1050728  | 50.753  | ug/l   | 95       |
| 68) m/p-Xylenes               | 10.305 | 106  | 858953   | 101.942 | ug/l   | 93       |
| 69) o-Xylene                  | 10.640 | 106  | 427691   | 50.911  | ug/l   | 93       |
| 70) Styrene                   | 10.659 | 104  | 709685   | 52.145  | ug/l   | 98       |
| 71) Bromoform                 | 10.799 | 173  | 194639   | 46.157  | ug/l   | 98       |
| 73) Isopropylbenzene          | 10.963 | 105  | 1108197  | 50.133  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 378736   | 49.571  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 343517   | 47.889  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 312938m  | 49.442  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 299470   | 52.018  | ug/l   | 85       |
| 78) n-propylbenzene           | 11.305 | 91   | 1238310  | 50.520  | ug/l   | 95       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 740816   | 48.613  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 948864   | 50.568  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 104864   | 49.235  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 862671   | 49.144  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 971924   | 50.726  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 957296   | 51.323  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 1178141  | 50.966  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 1042670  | 52.284  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 566426   | 52.363  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 572485   | 50.404  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 849050   | 51.850  | ug/l   | 97       |
| 90) Hexachloroethane          | 12.542 | 117  | 166096   | 46.423  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 553170   | 51.477  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 75236    | 47.162  | ug/l   | 85       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 364718   | 57.064  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 155727   | 54.603  | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128  | 1171002  | 54.999  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 352190   | 56.138  | ug/l   | 97       |

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QLast Update : Tue Apr 19 13:38:04 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

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