

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062222\  
 Data File : VX029685.D  
 Acq On : 22 Jun 2022 09:22  
 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 06/23/2022  
 Supervised By : Mahesh Dadoda 06/23/2022

Quant Time: Jun 23 01:07:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061822W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 20 01:31:01 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 5.550          | 168  | 255984     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 429144     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 386474     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 193649     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.958          | 65   | 150372     | 44.377   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = | 88.760%  |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 136773     | 48.906   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 97.820%  |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 506337     | 49.559   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = | 99.120%  |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 199332     | 51.736   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 103.480% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 152066     | 49.053   | ug/l   | 100      |
| 3) Chloromethane             | 1.288          | 50   | 135380     | 40.537   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 138494     | 45.042   | ug/l   | 100      |
| 5) Bromomethane              | 1.612          | 94   | 66134      | 42.158   | ug/l   | 98       |
| 6) Chloroethane              | 1.685          | 64   | 80709      | 42.175   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 1.886          | 101  | 197850     | 46.186   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 78806      | 46.695   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 131728     | 49.041   | ug/l   | 100      |
| 10) Methyl Iodide            | 2.453          | 142  | 97022      | 32.790   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 2.983          | 59   | 149332     | 200.393  | ug/l   | 96       |
| 12) 1,1-Dichloroethene       | 2.319          | 96   | 129468     | 49.923   | ug/l   | 92       |
| 13) Acrolein                 | 2.239          | 56   | 36507      | 195.579  | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 201106     | 48.029   | ug/l   | 96       |
| 15) Acrylonitrile            | 3.069          | 53   | 380611     | 240.142  | ug/l   | 99       |
| 16) Acetone                  | 2.386          | 43   | 280701     | 207.829  | ug/l   | 99       |
| 17) Carbon Disulfide         | 2.514          | 76   | 342252     | 50.906   | ug/l   | 99       |
| 18) Methyl Acetate           | 2.703          | 43   | 166167     | 46.532   | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 439161     | 48.777   | ug/l   | 100      |
| 20) Methylene Chloride       | 2.788          | 84   | 149823     | 49.805   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 143437     | 50.604   | ug/l   | 94       |
| 22) Diisopropyl ether        | 3.757          | 45   | 391713     | 47.290   | ug/l # | 87       |
| 23) Vinyl Acetate            | 3.721          | 43   | 1683239    | 243.416  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 238664     | 47.911   | ug/l   | 99       |
| 25) 2-Butanone               | 4.556          | 43   | 477405     | 223.619  | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 186603     | 48.129   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 163030     | 49.231   | ug/l   | 94       |
| 28) Bromochloromethane       | 4.898          | 49   | 92901      | 48.813   | ug/l   | 96       |
| 29) Tetrahydrofuran          | 5.007          | 42   | 318298     | 223.714  | ug/l   | 97       |
| 30) Chloroform               | 5.093          | 83   | 251122     | 47.636   | ug/l   | 100      |
| 31) Cyclohexane              | 5.471          | 56   | 216301     | 47.547   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.379          | 97   | 219867     | 47.285   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 5.690          | 75   | 187313     | 49.486   | ug/l   | 98       |
| 37) Ethyl Acetate            | 4.715          | 43   | 188016     | 48.459   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 188695     | 50.694   | ug/l   | 99       |
| 39) Methylcyclohexane        | 7.379          | 83   | 244955     | 51.906   | ug/l   | 99       |
| 40) Benzene                  | 6.038          | 78   | 565966     | 50.443   | ug/l   | 98       |

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 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 06/23/2022  
 Supervised By : Mahesh Dadoda 06/23/2022

Quant Time: Jun 23 01:07:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061822W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 20 01:31:01 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.922  | 41   | 100759   | 49.292  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 185501   | 48.095  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 293596   | 48.663  | ug/l   | 99       |
| 44) Trichloroethene           | 7.129  | 130  | 169873   | 53.508  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 7.428  | 63   | 140509   | 51.062  | ug/l   | 97       |
| 46) Dibromomethane            | 7.580  | 93   | 103689   | 52.427  | ug/l   | 96       |
| 47) Bromodichloromethane      | 7.824  | 83   | 196029   | 51.435  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.690  | 41   | 141978   | 47.996  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 7.684  | 88   | 64171    | 841.392 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone      | 8.574  | 43   | 919558   | 236.470 | ug/l   | 99       |
| 52) Toluene                   | 8.720  | 92   | 371577   | 51.718  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 210956   | 54.776  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 235576   | 54.626  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 151889   | 52.286  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 234737   | 53.489  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 247709   | 51.199  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.244  | 63   | 476119   | 230.904 | ug/l   | 96       |
| 59) 2-Hexanone                | 9.433  | 43   | 698640   | 237.256 | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.525  | 129  | 156488   | 55.485  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 160180   | 53.185  | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.275  | 164  | 168528   | 60.298  | ug/l   | 98       |
| 65) Chlorobenzene             | 10.080 | 112  | 398858   | 52.607  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 143294   | 52.626  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 701382   | 51.414  | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.305 | 106  | 554425   | 104.216 | ug/l   | 99       |
| 69) o-Xylene                  | 10.640 | 106  | 270566   | 51.477  | ug/l   | 99       |
| 70) Styrene                   | 10.659 | 104  | 460027   | 53.455  | ug/l   | 99       |
| 71) Bromoform                 | 10.799 | 173  | 110253   | 57.109  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.964 | 105  | 707081   | 48.699  | ug/l   | 99       |
| 74) N-amyl acetate            | 10.842 | 43   | 245367   | 48.657  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 211003   | 44.950  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 11.238 | 75   | 206898m  | 49.044  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 168687   | 50.905  | ug/l   | 97       |
| 78) n-propylbenzene           | 11.305 | 91   | 813506   | 49.747  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 490177   | 48.409  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 601189   | 49.165  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 68733    | 54.202  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 563733   | 48.820  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 11.713 | 119  | 577192   | 48.412  | ug/l   | 94       |
| 84) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 599935   | 49.193  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 11.890 | 105  | 740561   | 50.119  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 624699   | 50.492  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 322969   | 51.163  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 12.043 | 146  | 319305   | 50.662  | ug/l   | 98       |
| 89) n-Butylbenzene            | 12.335 | 91   | 546314   | 52.319  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.542 | 117  | 96308    | 54.363  | ug/l   | 93       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 315006   | 50.766  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 48176    | 46.317  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 204365   | 54.009  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 84199    | 54.350  | ug/l   | 93       |
| 95) Naphthalene               | 13.774 | 128  | 732038   | 53.892  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 199973   | 52.768  | ug/l   | 95       |

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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 06/23/2022  
Supervised By :Mahesh Dadoda 06/23/2022

Quant Time: Jun 23 01:07:20 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061822W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 20 01:31:01 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

