

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011122\  
 Data File : VX026421.D  
 Acq On : 11 Jan 2022 15:01  
 Operator : JC/MD  
 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX011122

Quant Time: Jan 12 06:45:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 01/12/2022  
 Supervised By : Mahesh Dadoda 01/12/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 5.556          | 168  | 122657     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 6.763          | 114  | 198375     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 10.055         | 117  | 170235     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 12.024         | 152  | 78448      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 5.952          | 65   | 78861      | 46.025  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 78 - 117 |      | Recovery = | 92.060% |        |          |
| 35) Dibromofluoromethane     | 5.385          | 113  | 60132      | 46.940  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = | 93.880% |        |          |
| 50) Toluene-d8               | 8.647          | 98   | 221237     | 47.925  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 92 - 112 |      | Recovery = | 95.840% |        |          |
| 62) 4-Bromofluorobenzene     | 11.079         | 95   | 79248      | 48.325  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = | 96.660% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.172          | 85   | 69124      | 47.725  | ug/l   | 99       |
| 3) Chloromethane             | 1.294          | 50   | 62755      | 47.264  | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.380          | 62   | 67862      | 48.680  | ug/l   | 100      |
| 5) Bromomethane              | 1.617          | 94   | 32249      | 50.149  | ug/l   | 98       |
| 6) Chloroethane              | 1.690          | 64   | 33382      | 47.355  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 103769     | 47.148  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.136          | 74   | 37207      | 47.774  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 65508      | 48.841  | ug/l   | 99       |
| 10) Methyl Iodide            | 2.459          | 142  | 63240      | 44.350  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 3.013          | 59   | 64590      | 270.981 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 2.325          | 96   | 61056      | 47.663  | ug/l   | 97       |
| 13) Acrolein                 | 2.239          | 56   | 57230      | 225.957 | ug/l   | 100      |
| 14) Allyl chloride           | 2.666          | 41   | 114572     | 48.635  | ug/l   | 99       |
| 15) Acrylonitrile            | 3.068          | 53   | 173628     | 236.637 | ug/l   | 99       |
| 16) Acetone                  | 2.385          | 43   | 193000     | 220.879 | ug/l   | 98       |
| 17) Carbon Disulfide         | 2.514          | 76   | 178097     | 47.620  | ug/l   | 98       |
| 18) Methyl Acetate           | 2.702          | 43   | 80243      | 46.193  | ug/l   | 100      |
| 19) Methyl tert-butyl Ether  | 3.111          | 73   | 223264     | 48.034  | ug/l   | 99       |
| 20) Methylene Chloride       | 2.794          | 84   | 66518      | 46.075  | ug/l   | 96       |
| 21) trans-1,2-Dichloroethene | 3.093          | 96   | 66293      | 47.804  | ug/l   | 98       |
| 22) Diisopropyl ether        | 3.757          | 45   | 229647     | 47.991  | ug/l   | 94       |
| 23) Vinyl Acetate            | 3.721          | 43   | 987996     | 250.828 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 3.611          | 63   | 123588     | 47.823  | ug/l   | 98       |
| 25) 2-Butanone               | 4.556          | 43   | 263545     | 231.927 | ug/l   | 100      |
| 26) 2,2-Dichloropropane      | 4.477          | 77   | 97946      | 51.131  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 4.489          | 96   | 76474      | 48.319  | ug/l   | 99       |
| 28) Bromochloromethane       | 4.897          | 49   | 50980      | 48.042  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 5.007          | 42   | 157849     | 233.890 | ug/l   | 100      |
| 30) Chloroform               | 5.092          | 83   | 128916     | 48.011  | ug/l   | 98       |
| 31) Cyclohexane              | 5.470          | 56   | 120020     | 47.490  | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 116909     | 49.499  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 5.696          | 75   | 98467      | 48.690  | ug/l   | 99       |
| 37) Ethyl Acetate            | 4.714          | 43   | 100224     | 48.992  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 5.678          | 117  | 102876     | 49.455  | ug/l   | 97       |
| 39) Methylcyclohexane        | 7.378          | 83   | 122451     | 50.199  | ug/l   | 98       |
| 40) Benzene                  | 6.037          | 78   | 271822     | 48.629  | ug/l   | 100      |

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 Sample : VSTDICV050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX011122

Quant Time: Jan 12 06:45:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 11 14:45:13 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/12/2022  
 Supervised By : Mahesh Dadoda 01/12/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 4.915  | 41   | 58364    | 50.364  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 6.086  | 62   | 105826   | 48.389  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 6.336  | 43   | 166520   | 50.391  | ug/l   | 100      |
| 44) Trichloroethene           | 7.129  | 130  | 78678    | 49.604  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 7.427  | 63   | 69570    | 49.862  | ug/l   | 99       |
| 46) Dibromomethane            | 7.580  | 93   | 48756    | 49.571  | ug/l   | 99       |
| 47) Bromodichloromethane      | 7.824  | 83   | 100015   | 50.327  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.689  | 41   | 81139    | 49.546  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 7.695  | 88   | 25965    | 966.131 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43   | 477608   | 243.673 | ug/l   | 100      |
| 52) Toluene                   | 8.720  | 92   | 170287   | 49.679  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.976  | 75   | 102593   | 48.357  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 8.366  | 75   | 113668   | 53.253  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 9.153  | 97   | 65498    | 48.965  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 9.116  | 69   | 105196   | 51.316  | ug/l   | 99       |
| 57) 1,3-Dichloropropane       | 9.311  | 76   | 116002   | 50.020  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 8.238  | 63   | 245309   | 228.212 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 366554   | 244.343 | ug/l   | 100      |
| 60) Dibromochloromethane      | 9.518  | 129  | 72385    | 51.929  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 9.610  | 107  | 69868    | 50.126  | ug/l   | 99       |
| 64) Tetrachloroethene         | 9.274  | 164  | 77505    | 48.196  | ug/l   | 97       |
| 65) Chlorobenzene             | 10.079 | 112  | 173937   | 48.519  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 67373    | 50.579  | ug/l   | 99       |
| 67) Ethyl Benzene             | 10.195 | 91   | 324731   | 49.847  | ug/l   | 100      |
| 68) m/p-Xylenes               | 10.299 | 106  | 242786   | 99.586  | ug/l   | 100      |
| 69) o-Xylene                  | 10.640 | 106  | 115959   | 49.293  | ug/l   | 99       |
| 70) Styrene                   | 10.658 | 104  | 193991   | 50.536  | ug/l   | 100      |
| 71) Bromoform                 | 10.799 | 173  | 47014    | 46.287  | ug/l # | 99       |
| 73) Isopropylbenzene          | 10.963 | 105  | 313791   | 48.799  | ug/l   | 100      |
| 74) N-amyl acetate            | 10.841 | 43   | 128160   | 51.626  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 82997    | 48.087  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 11.244 | 75   | 83430m   | 48.302  | ug/l   |          |
| 77) Bromobenzene              | 11.201 | 156  | 70691    | 47.987  | ug/l   | 99       |
| 78) n-propylbenzene           | 11.305 | 91   | 364328   | 49.685  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 11.366 | 91   | 213451   | 48.003  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 259164   | 48.887  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75   | 25044    | 46.161  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 11.457 | 91   | 246022   | 48.140  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 11.719 | 119  | 247378   | 49.987  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 259279   | 48.899  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 11.890 | 105  | 320338   | 50.043  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 12.012 | 119  | 272180   | 50.680  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146  | 133607   | 48.387  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 12.042 | 146  | 135160   | 48.360  | ug/l   | 99       |
| 89) n-Butylbenzene            | 12.335 | 91   | 238285   | 51.703  | ug/l   | 100      |
| 90) Hexachloroethane          | 12.542 | 117  | 42208    | 47.222  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 12.335 | 146  | 126786   | 48.588  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 20746    | 49.733  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 85007    | 50.813  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 13.725 | 225  | 36252    | 51.333  | ug/l   | 99       |
| 95) Naphthalene               | 13.780 | 128  | 282089   | 50.552  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 82249    | 49.991  | ug/l   | 99       |

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Sample : VSTDICV050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX011122

Manual Integrations  
APPROVED

Reviewed By : John Carlone 01/12/2022  
Supervised By : Mahesh Dadoda 01/12/2022

Quant Time: Jan 12 06:45:31 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011122W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 11 14:45:13 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

