

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030524\  
 Data File : VX040586.D  
 Acq On : 05 Mar 2024 14:03  
 Operator : JC/MD  
 Sample : VX0305WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0305WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/06/2024  
 Supervised By : Mahesh Dadoda 03/06/2024

Quant Time: Mar 06 00:11:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 05 13:21:29 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon     | Response | Conc   | Units    | Dev(Min) |
|------------------------------|--------|----------|----------|--------|----------|----------|
| -----                        |        |          |          |        |          |          |
| Internal Standards           |        |          |          |        |          |          |
| 1) Bromochloromethane        | 4.898  | 128      | 15935    | 30.000 | ug/l     | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114      | 90496    | 30.000 | ug/l     | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117      | 78909    | 30.000 | ug/l     | 0.00     |
|                              |        |          |          |        |          |          |
| System Monitoring Compounds  |        |          |          |        |          |          |
| 27) 1,2-Dichloroethane-d4    | 5.952  | 65       | 47435    | 29.805 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 110 | Recovery | =      | 99.367%  |          |
| 60) 4-Bromofluorobenzene     | 11.079 | 95       | 45311    | 33.476 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 63 - 112 | Recovery | =      | 111.600% |          |
| 63) Toluene-d8               | 8.647  | 98       | 114779   | 32.914 | ug/l     | 0.00     |
| Spiked Amount 30.000         | Range  | 91 - 112 | Recovery | =      | 109.700% |          |
|                              |        |          |          |        |          |          |
| Target Compounds             |        |          |          |        |          | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.167  | 85       | 22235    | 20.573 | ug/l     | 92       |
| 3) Chloromethane             | 1.295  | 50       | 21335    | 19.266 | ug/l     | 97       |
| 4) Vinyl Chloride            | 1.374  | 62       | 23253    | 19.430 | ug/l     | 98       |
| 5) Bromomethane              | 1.605  | 94       | 16612    | 22.727 | ug/l     | 98       |
| 6) Chloroethane              | 1.685  | 64       | 13336    | 18.967 | ug/l     | 99       |
| 7) Trichlorofluoromethane    | 1.886  | 101      | 35671    | 19.577 | ug/l     | 98       |
| 8) Diethyl Ether             | 2.130  | 74       | 11631    | 18.800 | ug/l     | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101      | 20458    | 20.497 | ug/l     | 96       |
| 10) 1,1-Dichloroethene       | 2.319  | 96       | 19056    | 20.054 | ug/l     | 98       |
| 11) Methyl Iodide            | 2.453  | 142      | 21542    | 18.744 | ug/l     | 91       |
| 12) Methyl Acetate           | 2.703  | 43       | 29560    | 18.885 | ug/l     | 99       |
| 13) Acrolein                 | 2.233  | 56       | 27329    | 92.611 | ug/l     | 97       |
| 14) Acrylonitrile            | 3.063  | 53       | 58320    | 94.619 | ug/l     | 97       |
| 15) Acetone                  | 2.380  | 58       | 16881    | 95.815 | ug/l     | 85       |
| 16) Carbon Disulfide         | 2.508  | 76       | 51897    | 19.872 | ug/l     | 97       |
| 17) Allyl chloride           | 2.660  | 41       | 33754    | 19.248 | ug/l     | 91       |
| 18) Methylene Chloride       | 2.788  | 84       | 21876    | 20.164 | ug/l     | 94       |
| 19) trans-1,2-Dichloroethene | 3.093  | 96       | 20226    | 19.496 | ug/l     | 99       |
| 20) Diisopropyl ether        | 3.764  | 45       | 67136    | 19.143 | ug/l     | 92       |
| 21) 1,1-Dichloroethane       | 3.605  | 63       | 39470    | 19.558 | ug/l     | 99       |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96       | 23390    | 19.415 | ug/l     | 95       |
| 23) tert-Butyl Alcohol       | 2.959  | 59       | 28000    | 96.147 | ug/l #   | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73       | 67751    | 19.319 | ug/l     | 92       |
| 25) Chloroform               | 5.093  | 83       | 41608    | 18.837 | ug/l     | 94       |
| 26) Cyclohexane              | 5.465  | 56       | 31984    | 19.638 | ug/l #   | 96       |
| 29) 1,1-Dichloropropene      | 5.696  | 75       | 30773    | 19.645 | ug/l     | 98       |
| 30) 2-Butanone               | 4.550  | 43       | 90519    | 94.699 | ug/l     | 99       |
| 31) 2,2-Dichloropropane      | 4.465  | 77       | 33135    | 19.599 | ug/l     | 96       |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97       | 37796    | 19.149 | ug/l     | 98       |
| 33) Carbon Tetrachloride     | 5.672  | 117      | 32539    | 19.594 | ug/l     | 91       |
| 34) Benzene                  | 6.038  | 78       | 82776    | 19.575 | ug/l     | 99       |
| 35) Methacrylonitrile        | 4.916  | 41       | 19604    | 19.978 | ug/l     | 90       |
| 36) 1,2-Dichloroethane       | 6.086  | 62       | 37286    | 19.071 | ug/l     | 96       |
| 37) Trichloroethene          | 7.123  | 130      | 21516    | 18.934 | ug/l     | 97       |
| 38) Methylcyclohexane        | 7.379  | 83       | 35083    | 20.800 | ug/l     | 97       |
| 39) 1,2-Dichloropropane      | 7.428  | 63       | 21011    | 19.515 | ug/l     | 97       |
| 40) Dibromomethane           | 7.574  | 93       | 17411    | 20.585 | ug/l     | 97       |
| 41) Bromodichloromethane     | 7.818  | 83       | 32365    | 19.234 | ug/l #   | 96       |
| 42) Vinyl Acetate            | 3.721  | 43       | 314826   | 95.661 | ug/l     | 100      |

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 Sample : VX0305WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0305WBS01

Quant Time: Mar 06 00:11:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
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### Manual Integrations APPROVED

Reviewed By : John Carlone 03/06/2024  
 Supervised By : Mahesh Dadoda 03/06/2024

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.709  | 43   | 33085    | 18.378  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 53787    | 18.718  | ug/l   | 96       |
| 45) 1,4-Dioxane               | 7.653  | 88   | 11357    | 384.487 | ug/l   | 94       |
| 46) Methyl methacrylate       | 7.690  | 41   | 27781    | 19.465  | ug/l   | 93       |
| 47) n-amyl Acetate            | 10.842 | 43   | 48300    | 19.503  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 34377    | 19.329  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 35314    | 19.492  | ug/l # | 88       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 20887    | 18.591  | ug/l   | 94       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 31285    | 17.687  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 35619    | 18.580  | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 22337    | 17.440  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 23253    | 18.704  | ug/l   | 96       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 82808    | 91.931  | ug/l   | 100      |
| 56) Bromoform                 | 10.799 | 173  | 15969    | 17.579  | ug/l # | 96       |
| 58) 4-Methyl-2-Pentanone      | 8.568  | 43   | 183773   | 104.589 | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 132432   | 93.309  | ug/l   | 97       |
| 61) Tetrachloroethene         | 9.275  | 164  | 18500    | 19.753  | ug/l   | 97       |
| 62) Toluene                   | 8.714  | 91   | 93048    | 21.410  | ug/l   | 99       |
| 64) Chlorobenzene             | 10.080 | 112  | 53280    | 20.058  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 18614    | 18.372  | ug/l   | 99       |
| 66) Ethyl Benzene             | 10.195 | 91   | 98211    | 19.599  | ug/l   | 99       |
| 67) m/p-Xylenes               | 10.299 | 106  | 72442    | 39.149  | ug/l   | 95       |
| 68) o-Xylene                  | 10.640 | 106  | 35885    | 20.145  | ug/l   | 97       |
| 69) Styrene                   | 10.653 | 104  | 58440    | 19.527  | ug/l   | 98       |
| 70) Isopropylbenzene          | 10.964 | 105  | 106949   | 22.220  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 35930    | 21.293  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 31989m   | 21.069  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 24912    | 21.863  | ug/l   | 93       |
| 74) n-propylbenzene           | 11.305 | 91   | 130362   | 21.929  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 77421    | 21.946  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 90775    | 21.422  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 9933     | 21.052  | ug/l   | 81       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 91869    | 21.830  | ug/l   | 98       |
| 79) tert-butylbenzene         | 11.713 | 119  | 85765    | 21.685  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 92102    | 22.060  | ug/l   | 95       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 113287   | 21.695  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 93564    | 21.890  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 48226    | 21.751  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 49008    | 21.615  | ug/l   | 99       |
| 85) n-Butylbenzene            | 12.335 | 91   | 90090    | 21.661  | ug/l   | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 15217    | 20.403  | ug/l   | 88       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 46623    | 21.639  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 9505     | 21.066  | ug/l   | 93       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 31312    | 21.584  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 13277    | 22.634  | ug/l   | 97       |
| 91) Naphthalene               | 13.774 | 128  | 98923    | 20.905  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 31284    | 21.870  | ug/l   | 99       |

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

