

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061125\  
 Data File : VX046630.D  
 Acq On : 11 Jun 2025 12:09  
 Operator : JC/MD  
 Sample : VX0611WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0611WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/12/2025  
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 01:38:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.910          | 128  | 19624               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763          | 114  | 102297              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 94515               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958          | 65   | 48340               | 30.431  | ug/l   | -0.01    |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 101.433% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 48521               | 30.457  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 101.533% |         |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 126474              | 29.958  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.867%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.185          | 85   | 23403               | 18.343  | ug/l   | 97       |
| 3) Chloromethane             | 1.307          | 50   | 21600               | 16.432  | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.386          | 62   | 21632               | 17.070  | ug/l   | 96       |
| 5) Bromomethane              | 1.630          | 94   | 11137               | 14.716  | ug/l   | 99       |
| 6) Chloroethane              | 1.703          | 64   | 14996m              | 20.598  | ug/l   |          |
| 7) Trichlorofluoromethane    | 1.904          | 101  | 32692               | 18.011  | ug/l   | 98       |
| 8) Diethyl Ether             | 2.148          | 74   | 12088               | 19.007  | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo... | 2.343          | 101  | 21701               | 17.969  | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.331          | 96   | 20614               | 17.597  | ug/l   | 97       |
| 11) Methyl Iodide            | 2.465          | 142  | 24853               | 15.561  | ug/l   | 99       |
| 12) Methyl Acetate           | 2.715          | 43   | 23536               | 15.939  | ug/l   | 98       |
| 13) Acrolein                 | 2.245          | 56   | 15353               | 106.106 | ug/l   | 97       |
| 14) Acrylonitrile            | 3.075          | 53   | 56275               | 92.738  | ug/l   | 98       |
| 15) Acetone                  | 2.386          | 58   | 13436               | 96.828  | ug/l   | 87       |
| 16) Carbon Disulfide         | 2.526          | 76   | 59563               | 18.326  | ug/l   | 98       |
| 17) Allyl chloride           | 2.678          | 41   | 38759               | 18.236  | ug/l   | 99       |
| 18) Methylene Chloride       | 2.800          | 84   | 24095               | 18.637  | ug/l   | 96       |
| 19) trans-1,2-Dichloroethene | 3.105          | 96   | 21767               | 17.930  | ug/l   | 93       |
| 20) Diisopropyl ether        | 3.769          | 45   | 75918               | 18.879  | ug/l   | 88       |
| 21) 1,1-Dichloroethane       | 3.623          | 63   | 41397               | 17.968  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 4.507          | 96   | 26321               | 18.597  | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 2.959          | 59   | 10496               | 85.639  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.123          | 73   | 68202               | 19.058  | ug/l   | 100      |
| 25) Chloroform               | 5.099          | 83   | 44801               | 18.891  | ug/l   | 99       |
| 26) Cyclohexane              | 5.477          | 56   | 38282               | 18.211  | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 5.708          | 75   | 30376               | 18.873  | ug/l   | 99       |
| 30) 2-Butanone               | 4.562          | 43   | 68191               | 95.084  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.483          | 77   | 30516               | 21.357  | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 5.391          | 97   | 37471               | 18.842  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.684          | 117  | 33499               | 18.980  | ug/l   | 98       |
| 34) Benzene                  | 6.043          | 78   | 89723               | 18.974  | ug/l   | 99       |
| 35) Methacrylonitrile        | 4.922          | 41   | 16976m              | 19.304  | ug/l   |          |
| 36) 1,2-Dichloroethane       | 6.098          | 62   | 34939               | 19.529  | ug/l   | 99       |
| 37) Trichloroethene          | 7.129          | 130  | 22166               | 18.680  | ug/l   | 89       |
| 38) Methylcyclohexane        | 7.385          | 83   | 38152               | 18.675  | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 7.433          | 63   | 22487               | 19.063  | ug/l   | 90       |
| 40) Dibromomethane           | 7.586          | 93   | 16649               | 18.880  | ug/l   | 98       |
| 41) Bromodichloromethane     | 7.824          | 83   | 34992               | 19.477  | ug/l # | 96       |
| 42) Vinyl Acetate            | 3.733          | 43   | 303519              | 98.081  | ug/l   | 99       |

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 Sample : VX0611WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0611WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 06/12/2025  
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Quant Time: Jun 12 01:38:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.727  | 43   | 29747m   | 19.581  | ug/l   |          |
| 44) Isopropyl Acetate         | 6.342  | 43   | 46272    | 19.473  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 7.665  | 88   | 5363     | 357.802 | ug/l # | 89       |
| 46) Methyl methacrylate       | 7.696  | 41   | 24324    | 18.748  | ug/l   | 99       |
| 47) n-amyl Acetate            | 10.841 | 43   | 42641    | 20.062  | ug/l   | 99       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 31138    | 19.334  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 34737    | 19.319  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 20940    | 18.841  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 31641    | 18.723  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 37466    | 19.354  | ug/l   | 98       |
| 53) Dibromochloromethane      | 9.518  | 129  | 25362    | 19.361  | ug/l   | 97       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 22199    | 18.989  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 83897    | 95.060  | ug/l   | 99       |
| 56) Bromoform                 | 10.799 | 173  | 15446    | 19.080  | ug/l   | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 143709   | 93.476  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 102179   | 94.211  | ug/l   | 98       |
| 61) Tetrachloroethene         | 9.275  | 164  | 18676    | 18.855  | ug/l   | 96       |
| 62) Toluene                   | 8.720  | 91   | 96278    | 18.796  | ug/l   | 100      |
| 64) Chlorobenzene             | 10.079 | 112  | 61572    | 18.637  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 21442    | 19.366  | ug/l   | 99       |
| 66) Ethyl Benzene             | 10.195 | 91   | 108605   | 18.569  | ug/l   | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 82798    | 38.274  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 38744    | 18.601  | ug/l   | 99       |
| 69) Styrene                   | 10.652 | 104  | 67413    | 18.882  | ug/l   | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 105719   | 18.913  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 31809    | 19.372  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 26074m   | 19.021  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 24748    | 18.888  | ug/l   | 98       |
| 74) n-propylbenzene           | 11.305 | 91   | 128938   | 19.291  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 77797    | 19.442  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 88316    | 19.016  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 8774     | 18.947  | ug/l   | 94       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 90457    | 19.539  | ug/l   | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 87456    | 18.882  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 89122    | 19.430  | ug/l   | 96       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 113075   | 19.078  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 93711    | 19.264  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 47485    | 19.469  | ug/l   | 97       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 48232    | 19.665  | ug/l   | 99       |
| 85) n-Butylbenzene            | 12.329 | 91   | 90861    | 19.388  | ug/l   | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 15835    | 18.743  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 45735    | 19.491  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 6241     | 18.425  | ug/l   | 95       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 30405    | 19.655  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 12898    | 18.935  | ug/l   | 99       |
| 91) Naphthalene               | 13.774 | 128  | 91927    | 18.731  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 29171    | 19.211  | ug/l   | 100      |

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

