

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX013025\  
 Data File : VX044769.D  
 Acq On : 30 Jan 2025 09:23  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Quant Time: Jan 30 12:08:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011625W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jan 17 01:21:41 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 01/30/2025  
 Supervised By : Semsettin Yesilyurt 01/31/2025

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.885          | 128  | 29832      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.751          | 114  | 163814     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.049         | 117  | 150220     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.946          | 65   | 76004      | 26.391   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 87.967%# |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 84010      | 28.793   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 95.967%  |        |          |
| 63) Toluene-d8               | 8.641          | 98   | 240747     | 29.466   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 98.233%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 52103      | 19.644   | ug/l   | 98       |
| 3) Chloromethane             | 1.300          | 50   | 60083      | 21.534   | ug/l   | 100      |
| 4) Vinyl Chloride            | 1.374          | 62   | 58555      | 21.449   | ug/l   | 98       |
| 5) Bromomethane              | 1.593          | 94   | 14886      | 22.562   | ug/l   | 95       |
| 6) Chloroethane              | 1.666          | 64   | 19092      | 44.108   | ug/l   | 92       |
| 7) Trichlorofluoromethane    | 1.867          | 101  | 69133      | 23.124   | ug/l   | 100      |
| 8) Diethyl Ether             | 2.130          | 74   | 22458      | 19.472   | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319          | 101  | 49250      | 22.994   | ug/l   | 99       |
| 10) 1,1-Dichloroethene       | 2.312          | 96   | 47633      | 21.617   | ug/l   | 98       |
| 11) Methyl Iodide            | 2.440          | 142  | 63536      | 20.807   | ug/l   | 99       |
| 12) Methyl Acetate           | 2.697          | 43   | 71655      | 22.274   | ug/l   | 98       |
| 13) Acrolein                 | 2.233          | 56   | 37951      | 106.677  | ug/l   | 100      |
| 14) Acrylonitrile            | 3.056          | 53   | 130976     | 111.732  | ug/l   | 99       |
| 15) Acetone                  | 2.380          | 58   | 38443      | 122.217  | ug/l   | 92       |
| 16) Carbon Disulfide         | 2.501          | 76   | 125491     | 20.493   | ug/l   | 100      |
| 17) Allyl chloride           | 2.654          | 41   | 84961      | 21.380   | ug/l   | 94       |
| 18) Methylene Chloride       | 2.782          | 84   | 53119      | 21.541   | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 3.081          | 96   | 46748      | 21.336   | ug/l   | 98       |
| 20) Diisopropyl ether        | 3.757          | 45   | 161574     | 22.401   | ug/l   | 94       |
| 21) 1,1-Dichloroethane       | 3.599          | 63   | 91287      | 21.336   | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 4.477          | 96   | 57883      | 21.344   | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.977          | 59   | 56235      | 99.185   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 153130     | 20.057   | ug/l   | 99       |
| 25) Chloroform               | 5.086          | 83   | 86026      | 20.235   | ug/l   | 100      |
| 26) Cyclohexane              | 5.452          | 56   | 82905      | 23.055   | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 5.678          | 75   | 60395      | 21.196   | ug/l   | 97       |
| 30) 2-Butanone               | 4.550          | 43   | 176273     | 112.619  | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 4.458          | 77   | 76791      | 19.476   | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.373          | 97   | 74051      | 19.611   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 5.659          | 117  | 63101      | 19.810   | ug/l   | 97       |
| 34) Benzene                  | 6.025          | 78   | 198175     | 21.800   | ug/l   | 97       |
| 35) Methacrylonitrile        | 4.916          | 41   | 36109      | 20.642   | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 6.080          | 62   | 59514      | 18.311   | ug/l   | 97       |
| 37) Trichloroethene          | 7.116          | 130  | 46534      | 21.202   | ug/l   | 95       |
| 38) Methylcyclohexane        | 7.372          | 83   | 85204      | 22.009   | ug/l   | 99       |
| 39) 1,2-Dichloropropane      | 7.421          | 63   | 47781      | 21.078   | ug/l   | 98       |
| 40) Dibromomethane           | 7.574          | 93   | 33318      | 19.770   | ug/l   | 98       |
| 41) Bromodichloromethane     | 7.818          | 83   | 68688      | 19.739   | ug/l   | 100      |
| 42) Vinyl Acetate            | 3.715          | 43   | 660882     | 106.320  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX013025\  
 Data File : VX044769.D  
 Acq On : 30 Jan 2025 09:23  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC020

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 01/30/2025  
 Supervised By : Semsettin Yesilyurt 01/31/2025

Quant Time: Jan 30 12:08:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011625W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jan 17 01:21:41 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.702  | 43   | 67620    | 22.024  | ug/l  | # 94     |
| 44) Isopropyl Acetate         | 6.330  | 43   | 112378   | 20.373  | ug/l  | 99       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 24038    | 457.656 | ug/l  | 95       |
| 46) Methyl methacrylate       | 7.690  | 41   | 54603    | 20.223  | ug/l  | 98       |
| 47) n-amyl Acetate            | 10.841 | 43   | 99874    | 21.575  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 71397    | 19.438  | ug/l  | 99       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 79025    | 20.065  | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 47302    | 21.793  | ug/l  | 97       |
| 51) Ethyl methacrylate        | 9.110  | 69   | 77875    | 20.653  | ug/l  | 99       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 81376    | 21.677  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.518  | 129  | 52690    | 20.315  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.604  | 107  | 48266    | 21.036  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.232  | 63   | 233333   | 127.538 | ug/l  | 98       |
| 56) Bromoform                 | 10.799 | 173  | 34306    | 19.947  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.567  | 43   | 339513   | 107.223 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 249683   | 107.708 | ug/l  | 99       |
| 61) Tetrachloroethene         | 9.268  | 164  | 37755    | 20.953  | ug/l  | 98       |
| 62) Toluene                   | 8.714  | 91   | 208807   | 21.110  | ug/l  | 99       |
| 64) Chlorobenzene             | 10.073 | 112  | 131027   | 21.329  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 42864    | 19.424  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 225942   | 20.931  | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 175917   | 44.334  | ug/l  | 94       |
| 68) o-Xylene                  | 10.640 | 106  | 86089    | 21.617  | ug/l  | 97       |
| 69) Styrene                   | 10.652 | 104  | 142158   | 21.741  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.957 | 105  | 219191   | 21.894  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 72490    | 21.538  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 57752m   | 20.396  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 50866    | 21.809  | ug/l  | 94       |
| 74) n-propylbenzene           | 11.299 | 91   | 252990   | 22.248  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 150507   | 21.052  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 181381   | 22.309  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 25474    | 19.017  | ug/l  | 92       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 168899   | 21.440  | ug/l  | 97       |
| 79) tert-butylbenzene         | 11.713 | 119  | 185558   | 22.216  | ug/l  | 97       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 176588   | 21.527  | ug/l  | 97       |
| 81) sec-Butylbenzene          | 11.884 | 105  | 233927   | 23.454  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 187942   | 22.896  | ug/l  | 98       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 90729    | 21.901  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene       | 12.036 | 146  | 91517    | 22.535  | ug/l  | 98       |
| 85) n-Butylbenzene            | 12.329 | 91   | 166628   | 23.418  | ug/l  | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 36829    | 20.395  | ug/l  | 99       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 92167    | 22.280  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 13700    | 16.900  | ug/l  | 93       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 55884    | 21.738  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.719 | 225  | 22719    | 22.847  | ug/l  | 98       |
| 91) Naphthalene               | 13.774 | 128  | 199347   | 20.727  | ug/l  | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 56235    | 21.507  | ug/l  | 99       |

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

