

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081324\  
 Data File : VX043005.D  
 Acq On : 13 Aug 2024 10:25  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Quant Time: Aug 13 13:12:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X081324W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Aug 13 13:10:21 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 4.897  | 128   | 32168    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.757  | 114   | 191880   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117   | 171006   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952  | 65    | 74100    | 25.614   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 85.367%# |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 84072    | 30.018   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 100.067% |
| 63) Toluene-d8               | 8.647  | 98    | 232944   | 30.043   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 100.133% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 8630     | 4.619    | ug/l   | 99       |
| 3) Chloromethane             | 1.300  | 50    | 13882    | 7.131    | ug/l   | 98       |
| 4) Vinyl Chloride            | 1.374  | 62    | 12300    | 6.184    | ug/l   | 99       |
| 5) Bromomethane              | 1.599  | 94    | 3445     | 3.335    | ug/l   | 91       |
| 6) Chloroethane              | 1.666  | 64    | 3663     | 3.611    | ug/l   | 90       |
| 7) Trichlorofluoromethane    | 1.867  | 101   | 12146    | 4.322    | ug/l   | 93       |
| 8) Diethyl Ether             | 2.136  | 74    | 5857     | 5.059    | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.319  | 101   | 10731    | 5.286    | ug/l   | 94       |
| 10) 1,1-Dichloroethene       | 2.312  | 96    | 10736    | 5.399    | ug/l   | 94       |
| 11) Methyl Iodide            | 2.441  | 142   | 10983    | 5.678    | ug/l   | 94       |
| 12) Methyl Acetate           | 2.709  | 43    | 18937    | 4.652    | ug/l   | 99       |
| 13) Acrolein                 | 2.239  | 56    | 17052    | 75.919   | ug/l   | 90       |
| 14) Acrylonitrile            | 3.068  | 53    | 36757    | 27.772   | ug/l   | 98       |
| 15) Acetone                  | 2.392  | 58    | 10712    | 25.275   | ug/l   | 76       |
| 16) Carbon Disulfide         | 2.501  | 76    | 32631    | 7.306    | ug/l   | 99       |
| 17) Allyl chloride           | 2.660  | 41    | 22056    | 6.598    | ug/l   | 88       |
| 18) Methylene Chloride       | 2.788  | 84    | 12304    | 5.320    | ug/l   | 95       |
| 19) trans-1,2-Dichloroethene | 3.087  | 96    | 11490    | 5.729    | ug/l   | 99       |
| 20) Diisopropyl ether        | 3.763  | 45    | 41731    | 5.854    | ug/l # | 83       |
| 21) 1,1-Dichloroethane       | 3.611  | 63    | 22452    | 5.667    | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.483  | 96    | 12725    | 5.035    | ug/l   | 94       |
| 23) tert-Butyl Alcohol       | 2.995  | 59    | 14820    | 24.381   | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.117  | 73    | 37570    | 5.284    | ug/l   | 97       |
| 25) Chloroform               | 5.086  | 83    | 19592    | 4.702    | ug/l   | 92       |
| 26) Cyclohexane              | 5.464  | 56    | 20563    | 6.306    | ug/l # | 92       |
| 29) 1,1-Dichloropropene      | 5.690  | 75    | 14527    | 5.693    | ug/l   | 86       |
| 30) 2-Butanone               | 4.574  | 43    | 53488    | 28.500   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.465  | 77    | 19011m   | 6.279    | ug/l   |          |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97    | 17860    | 5.199    | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 5.678  | 117   | 14156    | 4.878    | ug/l   | 97       |
| 34) Benzene                  | 6.031  | 78    | 49565    | 6.007    | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.934  | 41    | 10526    | 5.839    | ug/l   | 94       |
| 36) 1,2-Dichloroethane       | 6.092  | 62    | 14584    | 4.999    | ug/l # | 90       |
| 37) Trichloroethene          | 7.129  | 130   | 10940    | 5.374    | ug/l   | 86       |
| 38) Methylcyclohexane        | 7.373  | 83    | 20061    | 6.167    | ug/l   | 94       |
| 39) 1,2-Dichloropropane      | 7.434  | 63    | 11799    | 5.645    | ug/l   | 100      |
| 40) Dibromomethane           | 7.586  | 93    | 8189     | 5.344    | ug/l   | 94       |
| 41) Bromodichloromethane     | 7.824  | 83    | 16288    | 5.349    | ug/l   | 97       |
| 42) Vinyl Acetate            | 3.721  | 43    | 247791   | 39.823   | ug/l   | 97       |

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 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Aug 13 13:10:21 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.727  | 43   | 20371    | 6.350   | ug/l  | 97       |
| 44) Isopropyl Acetate         | 6.348  | 43   | 31319    | 5.993   | ug/l  | 96       |
| 45) 1,4-Dioxane               | 7.677  | 88   | 6298m    | 117.881 | ug/l  |          |
| 46) Methyl methacrylate       | 7.702  | 41   | 15738    | 6.187   | ug/l  | 86       |
| 47) n-amyl Acetate            | 10.841 | 43   | 28141    | 6.231   | ug/l  | 97       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 17204    | 5.716   | ug/l  | 96       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 19353    | 5.918   | ug/l  | 96       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 11467    | 5.477   | ug/l  | 97       |
| 51) Ethyl methacrylate        | 9.122  | 69   | 21049    | 5.899   | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 20025    | 5.735   | ug/l  | 97       |
| 53) Dibromochloromethane      | 9.518  | 129  | 12198    | 5.057   | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 11881    | 5.448   | ug/l  | 98       |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 50691    | 30.698  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 8516     | 4.944   | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 102701   | 30.610  | ug/l  | 98       |
| 59) 2-Hexanone                | 9.433  | 43   | 79575    | 29.919  | ug/l  | 98       |
| 61) Tetrachloroethene         | 9.269  | 164  | 9538     | 5.581   | ug/l  | 94       |
| 62) Toluene                   | 8.720  | 91   | 49982    | 5.791   | ug/l  | 100      |
| 64) Chlorobenzene             | 10.079 | 112  | 30131    | 5.518   | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 10404    | 5.336   | ug/l  | 97       |
| 66) Ethyl Benzene             | 10.195 | 91   | 53881    | 5.648   | ug/l  | 97       |
| 67) m/p-Xylenes               | 10.299 | 106  | 41729    | 11.573  | ug/l  | 95       |
| 68) o-Xylene                  | 10.640 | 106  | 21220    | 5.954   | ug/l  | 96       |
| 69) Styrene                   | 10.659 | 104  | 33505    | 5.481   | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 50992    | 5.509   | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 18746    | 5.586   | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 17554m   | 5.809   | ug/l  |          |
| 73) Bromobenzene              | 11.201 | 156  | 11580    | 5.007   | ug/l  | 88       |
| 74) n-propylbenzene           | 11.305 | 91   | 57463    | 5.313   | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 36834    | 5.538   | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 42031    | 5.362   | ug/l  | 96       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 7325     | 6.938   | ug/l  | 91       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 39058    | 5.169   | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 42756    | 5.328   | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 42068    | 5.417   | ug/l  | 100      |
| 81) sec-Butylbenzene          | 11.890 | 105  | 53168    | 5.418   | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 41782    | 5.110   | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 20574    | 4.860   | ug/l  | 98       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 21159    | 4.973   | ug/l  | 98       |
| 85) n-Butylbenzene            | 12.335 | 91   | 35172    | 4.808   | ug/l  | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 8740     | 5.726   | ug/l  | 85       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 21494    | 5.061   | ug/l  | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 4156     | 5.447   | ug/l  | 95       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 11238    | 4.181   | ug/l  | 97       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 4563     | 4.009   | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 45185    | 4.816   | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 11715    | 4.311   | ug/l  | 97       |

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

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Sample : VSTDIC005  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

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