

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080224\  
 Data File : VX042840.D  
 Acq On : 02 Aug 2024 14:02  
 Operator : JC/MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 08/05/2024  
 Supervised By :Semsettin Yesilyurt 08/05/2024

Quant Time: Aug 02 21:20:40 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X080224W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 02 21:18:22 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Bromochloromethane        | 4.910          | 128  | 28779                | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763          | 114  | 185896               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 172376               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958          | 65   | 86304                | 39.473  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 131.567%# |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 85838                | 31.331  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 104.433%  |         |        |          |
| 63) Toluene-d8               | 8.653          | 98   | 224427               | 29.761  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 99.200%   |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         |        |          |
|                              |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 104235               | 58.296  | ug/l   | 100      |
| 3) Chloromethane             | 1.301          | 50   | 72241                | 41.533  | ug/l   | 95       |
| 4) Vinyl Chloride            | 1.374          | 62   | 75787                | 43.976  | ug/l   | 100      |
| 5) Bromomethane              | 1.599          | 94   | 32028                | 34.155  | ug/l   | 97       |
| 6) Chloroethane              | 1.679          | 64   | 41881                | 51.701  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 1.880          | 101  | 131293               | 56.985  | ug/l   | 96       |
| 8) Diethyl Ether             | 2.136          | 74   | 50204                | 52.866  | ug/l   | 89       |
| 9) 1,1,2-Trichlorotrifluo... | 2.325          | 101  | 98584                | 55.244  | ug/l   | 88       |
| 10) 1,1-Dichloroethene       | 2.319          | 96   | 86381                | 50.982  | ug/l   | 99       |
| 11) Methyl Iodide            | 2.447          | 142  | 95580                | 50.881  | ug/l   | 86       |
| 12) Methyl Acetate           | 2.709          | 43   | 184895               | 63.683  | ug/l   | 95       |
| 13) Acrolein                 | 2.239          | 56   | 27648                | 90.606  | ug/l   | 100      |
| 14) Acrylonitrile            | 3.069          | 53   | 296830               | 280.887 | ug/l   | 97       |
| 15) Acetone                  | 2.386          | 58   | 90778                | 287.413 | ug/l   | 89       |
| 16) Carbon Disulfide         | 2.508          | 76   | 186570               | 55.154  | ug/l   | 98       |
| 17) Allyl chloride           | 2.666          | 41   | 123328               | 46.935  | ug/l   | 85       |
| 18) Methylene Chloride       | 2.788          | 84   | 106616               | 53.742  | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 3.087          | 96   | 94386                | 54.779  | ug/l   | 98       |
| 20) Diisopropyl ether        | 3.770          | 45   | 278664               | 49.579  | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 3.611          | 63   | 184240               | 56.411  | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.489          | 96   | 122288               | 56.202  | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 2.983          | 59   | 147718               | 355.704 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.117          | 73   | 354235               | 61.046  | ug/l   | 96       |
| 25) Chloroform               | 5.099          | 83   | 205808               | 59.830  | ug/l   | 99       |
| 26) Cyclohexane              | 5.471          | 56   | 130444               | 49.264  | ug/l # | 91       |
| 29) 1,1-Dichloropropene      | 5.696          | 75   | 127518               | 51.624  | ug/l   | 95       |
| 30) 2-Butanone               | 4.562          | 43   | 415680               | 252.283 | ug/l   | 95       |
| 31) 2,2-Dichloropropane      | 4.477          | 77   | 168244               | 58.259  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 190264               | 58.022  | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.678          | 117  | 161145               | 56.451  | ug/l   | 99       |
| 34) Benzene                  | 6.044          | 78   | 397362               | 49.460  | ug/l   | 99       |
| 35) Methacrylonitrile        | 4.928          | 41   | 84409                | 52.493  | ug/l   | 89       |
| 36) 1,2-Dichloroethane       | 6.092          | 62   | 158085               | 58.158  | ug/l   | 95       |
| 37) Trichloroethene          | 7.129          | 130  | 102248               | 47.715  | ug/l   | 87       |
| 38) Methylcyclohexane        | 7.379          | 83   | 155048               | 49.507  | ug/l   | 96       |
| 39) 1,2-Dichloropropane      | 7.434          | 63   | 94691                | 47.883  | ug/l   | 98       |
| 40) Dibromomethane           | 7.580          | 93   | 78437                | 53.580  | ug/l   | 82       |
| 41) Bromodichloromethane     | 7.824          | 83   | 161091               | 57.669  | ug/l   | 99       |
| 42) Vinyl Acetate            | 3.727          | 43   | 1226835              | 235.649 | ug/l   | 97       |

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 QLast Update : Fri Aug 02 21:18:22 2024  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 43) Ethyl Acetate             | 4.721  | 43   | 141702   | 49.058   | ug/l   | 99       |
| 44) Isopropyl Acetate         | 6.348  | 43   | 234473   | 51.258   | ug/l   | 99       |
| 45) 1,4-Dioxane               | 7.665  | 88   | 54804    | 1058.446 | ug/l   | 97       |
| 46) Methyl methacrylate       | 7.696  | 41   | 115798   | 52.056   | ug/l   | 91       |
| 47) n-amyl Acetate            | 10.842 | 43   | 195811   | 48.623   | ug/l   | 97       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 160736   | 58.495   | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 167064   | 54.757   | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 104482   | 49.278   | ug/l   | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 173710   | 52.172   | ug/l   | 92       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 173454   | 50.305   | ug/l   | 99       |
| 53) Dibromochloromethane      | 9.525  | 129  | 125153   | 53.761   | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 111341   | 50.500   | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 402530   | 250.808  | ug/l   | 99       |
| 56) Bromoform                 | 10.799 | 173  | 85218    | 46.356   | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.580  | 43   | 762126   | 246.323  | ug/l   | 96       |
| 59) 2-Hexanone                | 9.433  | 43   | 604164   | 248.691  | ug/l   | 99       |
| 61) Tetrachloroethene         | 9.275  | 164  | 85488    | 41.120   | ug/l # | 83       |
| 62) Toluene                   | 8.720  | 91   | 427663   | 48.960   | ug/l   | 99       |
| 64) Chlorobenzene             | 10.079 | 112  | 285329   | 48.155   | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 106415   | 50.041   | ug/l   | 98       |
| 66) Ethyl Benzene             | 10.195 | 91   | 501015   | 52.065   | ug/l   | 97       |
| 67) m/p-Xylenes               | 10.305 | 106  | 379508   | 98.883   | ug/l   | 93       |
| 68) o-Xylene                  | 10.640 | 106  | 187006   | 48.911   | ug/l   | 93       |
| 69) Styrene                   | 10.659 | 104  | 322845   | 50.402   | ug/l   | 94       |
| 70) Isopropylbenzene          | 10.963 | 105  | 492758   | 50.718   | ug/l   | 97       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 162657   | 48.531   | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 157971m  | 59.135   | ug/l   |          |
| 73) Bromobenzene              | 11.201 | 156  | 115910   | 43.183   | ug/l   | 85       |
| 74) n-propylbenzene           | 11.305 | 91   | 572276   | 52.786   | ug/l   | 96       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 345843   | 50.703   | ug/l   | 95       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 414006   | 50.787   | ug/l   | 95       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 55095    | 55.642   | ug/l   | 97       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 398920   | 52.396   | ug/l   | 94       |
| 79) tert-butylbenzene         | 11.713 | 119  | 424242   | 49.328   | ug/l   | 91       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 414843   | 50.722   | ug/l   | 95       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 526138   | 51.321   | ug/l   | 97       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 443395   | 50.104   | ug/l   | 94       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 221162   | 45.161   | ug/l   | 95       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 223786   | 45.924   | ug/l   | 95       |
| 85) n-Butylbenzene            | 12.335 | 91   | 388951   | 54.843   | ug/l   | 98       |
| 86) Hexachloroethane          | 12.536 | 117  | 79763    | 52.414   | ug/l   | 71       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 218688   | 44.381   | ug/l   | 95       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 45290    | 63.132   | ug/l # | 67       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 139909   | 42.469   | ug/l   | 95       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 56098    | 35.564   | ug/l   | 96       |
| 91) Naphthalene               | 13.774 | 128  | 531176   | 52.494   | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 142346   | 42.224   | ug/l   | 95       |

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

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