

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN053122\  
 Data File : VN072654.D  
 Acq On : 31 May 2022 16:53  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Jun 01 02:41:19 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052622W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 27 05:07:24 2022  
 Response via : Initial Calibration

06/01/2022  
 Supervised By :Mahesh  
 Dadoda

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  | D   |
|------------------------------|--------|-------|----------|----------|--------|-----------|-----|
| -----                        |        |       |          |          |        |           |     |
| Internal Standards           |        |       |          |          |        |           |     |
| 1) Bromochloromethane        | 7.651  | 128   | 22321    | 30.000   | ug/l   | 0.00      | 06  |
| 28) 1,4-Difluorobenzene      | 8.963  | 114   | 125310   | 30.000   | ug/l   | 0.00      |     |
| 57) Chlorobenzene-d5         | 11.739 | 117   | 129934   | 30.000   | ug/l   | 0.00      |     |
| System Monitoring Compounds  |        |       |          |          |        |           |     |
| 27) 1,2-Dichloroethane-d4    | 8.434  | 65    | 71374    | 33.417   | ug/l   | 0.00      |     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 111.400%# |     |
| 60) 4-Bromofluorobenzene     | 12.727 | 95    | 69721    | 30.554   | ug/l   | 0.00      |     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 101.833%  |     |
| 63) Toluene-d8               | 10.439 | 98    | 214289   | 29.005   | ug/l   | 0.00      |     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 96.667%   |     |
| Target Compounds             |        |       |          |          |        |           |     |
|                              |        |       |          |          |        | Qvalue    |     |
| 2) Dichlorodifluoromethane   | 2.069  | 85    | 35624    | 23.356   | ug/l   |           | 96  |
| 3) Chloromethane             | 2.293  | 50    | 46760    | 22.863   | ug/l   |           | 97  |
| 4) Vinyl Chloride            | 2.434  | 62    | 36573    | 21.388   | ug/l   |           | 99  |
| 5) Bromomethane              | 2.840  | 94    | 16111    | 19.376   | ug/l   |           | 97  |
| 6) Chloroethane              | 3.004  | 64    | 23255    | 21.737   | ug/l   |           | 93  |
| 7) Trichlorofluoromethane    | 3.363  | 101   | 51704    | 21.100   | ug/l   |           | 96  |
| 8) Diethyl Ether             | 3.822  | 74    | 24243    | 23.579   | ug/l   |           | 84  |
| 9) 1,1,2-Trichlorotrifluo... | 4.193  | 101   | 15905    | 11.619   | ug/l # |           | 1   |
| 10) 1,1-Dichloroethene       | 4.175  | 96    | 31728    | 23.604   | ug/l   |           | 84  |
| 11) Methyl Iodide            | 4.416  | 142   | 28005    | 21.761   | ug/l   |           | 86  |
| 12) Methyl Acetate           | 4.846  | 43    | 64197    | 24.336   | ug/l # |           | 88  |
| 13) Acrolein                 | 4.040  | 56    | 35462    | 117.382  | ug/l   |           | 96  |
| 14) Acrylonitrile            | 5.545  | 53    | 137886   | 121.345  | ug/l   |           | 98  |
| 15) Acetone                  | 4.281  | 58    | 36794    | 125.784  | ug/l   |           | 97  |
| 16) Carbon Disulfide         | 4.528  | 76    | 89959    | 24.400   | ug/l   |           | 98  |
| 17) Allyl chloride           | 4.834  | 41    | 68371    | 24.482   | ug/l   |           | 75  |
| 18) Methylene Chloride       | 5.087  | 84    | 42677    | 24.150   | ug/l   |           | 92  |
| 19) trans-1,2-Dichloroethene | 5.581  | 96    | 16740    | 11.386   | ug/l   |           | 96  |
| 20) Diisopropyl ether        | 6.487  | 45    | 145196   | 22.676   | ug/l # |           | 89  |
| 21) 1,1-Dichloroethane       | 6.375  | 63    | 72659    | 22.293   | ug/l   |           | 99  |
| 22) cis-1,2-Dichloroethene   | 7.316  | 96    | 39756    | 21.291   | ug/l # |           | 82  |
| 23) tert-Butyl Alcohol       | 5.357  | 59    | 41030    | 107.574  | ug/l # |           | 100 |
| 24) Methyl tert-Butyl Ether  | 5.610  | 73    | 120048   | 23.247   | ug/l   |           | 94  |
| 25) Chloroform               | 7.810  | 83    | 73801    | 22.287   | ug/l   |           | 94  |
| 26) Cyclohexane              | 8.092  | 56    | 63555    | 20.675   | ug/l # |           | 87  |
| 29) 1,1-Dichloropropene      | 8.210  | 75    | 50209    | 21.187   | ug/l   |           | 96  |
| 30) 2-Butanone               | 7.328  | 43    | 190257   | 119.224  | ug/l   |           | 93  |
| 31) 2,2-Dichloropropane      | 7.322  | 77    | 51265    | 21.359   | ug/l   |           | 98  |
| 32) 1,1,1-Trichloroethane    | 8.010  | 97    | 56561    | 21.514   | ug/l   |           | 95  |
| 33) Carbon Tetrachloride     | 8.198  | 117   | 48633    | 20.834   | ug/l   |           | 99  |
| 34) Benzene                  | 8.457  | 78    | 171929   | 23.079   | ug/l   |           | 97  |
| 35) Methacrylonitrile        | 7.634  | 41    | 40504    | 24.884   | ug/l   |           | 86  |
| 36) 1,2-Dichloroethane       | 8.522  | 62    | 58878    | 24.323   | ug/l   |           | 96  |
| 37) Trichloroethene          | 9.216  | 130   | 36993    | 20.864   | ug/l   |           | 99  |
| 38) Methylcyclohexane        | 9.457  | 83    | 64349    | 21.985   | ug/l   |           | 92  |
| 39) 1,2-Dichloropropane      | 9.486  | 63    | 45964    | 23.137   | ug/l   |           | 93  |
| 40) Dibromomethane           | 9.575  | 93    | 28113    | 22.317   | ug/l   |           | 96  |
| 41) Bromodichloromethane     | 9.757  | 83    | 56533    | 22.388   | ug/l   |           | 93  |
| 42) Vinyl Acetate            | 6.428  | 43    | 618175   | 118.691  | ug/l   |           | 97  |

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|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.404  | 43   | 78224    | 25.562  | ug/l   | 95       |
| 44) Isopropyl Acetate         | 8.551  | 43   | 112105   | 23.511  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.563  | 88   | 19183    | 479.848 | ug/l # | 87       |
| 46) Methyl methacrylate       | 9.557  | 41   | 51013    | 22.708  | ug/l   | 79       |
| 47) n-amyl Acetate            | 12.386 | 43   | 84452    | 24.310  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene     | 10.716 | 75   | 61705    | 22.623  | ug/l   | 92       |
| 49) cis-1,3-Dichloropropene   | 10.186 | 75   | 63080    | 20.990  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 10.898 | 97   | 40242    | 21.730  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.757 | 69   | 67238    | 21.534  | ug/l   | 85       |
| 52) 1,3-Dichloropropane       | 11.039 | 76   | 74148    | 22.706  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.233 | 129  | 43201    | 22.691  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.339 | 107  | 44350    | 23.323  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.039 | 63   | 156645   | 114.688 | ug/l   | 98       |
| 56) Bromoform                 | 12.457 | 173  | 33927    | 24.684  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.328 | 43   | 383132   | 102.083 | ug/l # | 97       |
| 59) 2-Hexanone                | 11.080 | 43   | 297923   | 111.305 | ug/l   | 99       |
| 61) Tetrachloroethene         | 10.975 | 164  | 32449    | 18.870  | ug/l   | 90       |
| 62) Toluene                   | 10.504 | 91   | 189005   | 20.720  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.769 | 112  | 110888   | 20.921  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.839 | 131  | 44150    | 21.153  | ug/l   | 95       |
| 66) Ethyl Benzene             | 11.839 | 91   | 202602   | 20.135  | ug/l   | 100      |
| 67) m/p-Xylenes               | 11.945 | 106  | 155692   | 42.571  | ug/l   | 99       |
| 68) o-Xylene                  | 12.274 | 106  | 74012    | 20.341  | ug/l   | 99       |
| 69) Styrene                   | 12.292 | 104  | 122199   | 21.197  | ug/l   | 96       |
| 70) Isopropylbenzene          | 12.574 | 105  | 197531   | 21.248  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.821 | 83   | 71251    | 22.325  | ug/l   | 96       |
| 72) 1,2,3-Trichloropropane    | 12.874 | 75   | 54051m   | 20.070  | ug/l   |          |
| 73) Bromobenzene              | 12.857 | 156  | 44299    | 21.692  | ug/l   | 93       |
| 74) n-propylbenzene           | 12.916 | 91   | 227365   | 21.630  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.004 | 91   | 135849   | 21.308  | ug/l   | 96       |
| 76) 1,3,5-Trimethylbenzene    | 13.057 | 105  | 158153   | 21.557  | ug/l   | 96       |
| 77) t-1,4-Dichloro-2-butene   | 12.621 | 75   | 22251    | 21.142  | ug/l   | 92       |
| 78) 4-Chlorotoluene           | 13.098 | 91   | 127183   | 21.911  | ug/l   | 95       |
| 79) tert-butylbenzene         | 13.321 | 119  | 138377   | 21.554  | ug/l   | 96       |
| 80) 1,2,4-Trimethylbenzene    | 13.363 | 105  | 153973m  | 21.746  | ug/l   |          |
| 81) sec-Butylbenzene          | 13.498 | 105  | 197161   | 21.228  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.610 | 119  | 155360   | 21.577  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.610 | 146  | 73571    | 20.757  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.692 | 146  | 71361    | 20.724  | ug/l   | 98       |
| 85) n-Butylbenzene            | 13.939 | 91   | 123633   | 20.896  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.204 | 117  | 32106    | 22.389  | ug/l   | 93       |
| 87) 1,2-Dichlorobenzene       | 13.986 | 146  | 75165    | 21.471  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.598 | 75   | 14043    | 22.648  | ug/l   | 98       |
| 89) 1,2,4-Trichlorobenzene    | 15.257 | 180  | 36939    | 21.386  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.363 | 225  | 19053    | 21.995  | ug/l   | 97       |
| 91) Naphthalene               | 15.504 | 128  | 125238   | 20.662  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.698 | 180  | 38553    | 21.863  | ug/l   | 97       |

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

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