

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061121\  
 Data File : VN067302.D  
 Acq On : 11 Jun 2021 22:22  
 Operator : JC/MD  
 Sample : VSTDICCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

MMDadoda  
 6/14/2021 4:11:27 PM

Quant Time: Jun 12 08:59:16 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 08:57:05 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Bromochloromethane        | 7.659          | 128  | 66984                | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 8.968          | 114  | 410747               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.746         | 117  | 372248               | 30.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.440          | 65   | 217021               | 35.557  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 118.533%# |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.733         | 95   | 212519               | 32.152  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 107.167%  |         |        |          |
| 63) Toluene-d8               | 10.443         | 98   | 536510               | 31.689  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 105.633%  |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.070          | 85   | 92576                | 25.603  | ug/l   | 100      |
| 3) Chloromethane             | 2.301          | 50   | 98647                | 21.548  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.443          | 62   | 97395                | 20.529  | ug/l   | 100      |
| 5) Bromomethane              | 2.858          | 94   | 50337                | 16.115  | ug/l   | 100      |
| 6) Chloroethane              | 3.019          | 64   | 56983                | 20.464  | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 3.371          | 101  | 129734               | 18.448  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.821          | 74   | 53581                | 21.566  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 77426                | 24.438  | ug/l   | 100      |
| 10) 1,1-Dichloroethene       | 4.173          | 96   | 76182                | 21.874  | ug/l   | 100      |
| 11) Methyl Iodide            | 4.414          | 142  | 84305                | 16.560  | ug/l   | 100      |
| 12) Methyl Acetate           | 4.859          | 43   | 111175               | 27.639  | ug/l   | 100      |
| 13) Acrolein                 | 4.039          | 56   | 66872                | 103.878 | ug/l   | 100      |
| 14) Acrylonitrile            | 5.559          | 53   | 231195               | 122.935 | ug/l   | 100      |
| 15) Acetone                  | 4.293          | 58   | 57808                | 110.021 | ug/l   | 100      |
| 16) Carbon Disulfide         | 4.521          | 76   | 236180               | 22.781  | ug/l   | 100      |
| 17) Allyl chloride           | 4.838          | 41   | 160849               | 24.629  | ug/l   | 100      |
| 18) Methylene Chloride       | 5.093          | 84   | 90965                | 21.273  | ug/l   | 100      |
| 19) trans-1,2-Dichloroethene | 5.594          | 96   | 82151                | 20.830  | ug/l   | 100      |
| 20) Diisopropyl ether        | 6.501          | 45   | 315209               | 24.836  | ug/l   | 100      |
| 21) 1,1-Dichloroethane       | 6.388          | 63   | 176553               | 22.712  | ug/l   | 100      |
| 22) cis-1,2-Dichloroethene   | 7.327          | 96   | 98301                | 20.612  | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.388          | 59   | 98204                | 119.010 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.621          | 73   | 317912               | 22.366  | ug/l   | 100      |
| 25) Chloroform               | 7.820          | 83   | 179176               | 21.579  | ug/l   | 100      |
| 26) Cyclohexane              | 8.094          | 56   | 150757               | 24.673  | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 8.222          | 75   | 130737               | 20.968  | ug/l   | 100      |
| 30) 2-Butanone               | 7.343          | 43   | 332444               | 125.621 | ug/l   | 100      |
| 31) 2,2-Dichloropropane      | 7.327          | 77   | 144613               | 18.367  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.013          | 97   | 172747               | 21.344  | ug/l   | 100      |
| 33) Carbon Tetrachloride     | 8.206          | 117  | 142059               | 20.642  | ug/l   | 100      |
| 34) Benzene                  | 8.461          | 78   | 376849               | 20.161  | ug/l   | 100      |
| 35) Methacrylonitrile        | 7.640          | 41   | 73246                | 24.401  | ug/l   | 100      |
| 36) 1,2-Dichloroethane       | 8.531          | 62   | 155065               | 20.292  | ug/l   | 100      |
| 37) Trichloroethene          | 9.217          | 130  | 89358                | 18.041  | ug/l   | 100      |
| 38) Methylcyclohexane        | 9.461          | 83   | 134126               | 20.195  | ug/l   | 100      |
| 39) 1,2-Dichloropropane      | 9.491          | 63   | 101093               | 21.008  | ug/l   | 100      |
| 40) Dibromomethane           | 9.579          | 93   | 69312                | 21.105  | ug/l   | 100      |
| 41) Bromodichloromethane     | 9.765          | 83   | 149500               | 20.370  | ug/l   | 100      |
| 42) Vinyl Acetate            | 6.436          | 43   | 1428443              | 121.688 | ug/l   | 100      |

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 QLast Update : Sat Jun 12 08:57:05 2021  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.418  | 43   | 139489   | 24.117  | ug/l # | 87       |
| 44) Isopropyl Acetate         | 8.568  | 43   | 252663   | 24.959  | ug/l   | 100      |
| 45) 1,4-Dioxane               | 9.574  | 88   | 33458    | 405.761 | ug/l   | 100      |
| 46) Methyl methacrylate       | 9.563  | 41   | 109383   | 23.439  | ug/l   | 100      |
| 47) n-amyl Acetate            | 12.390 | 43   | 202503   | 26.443  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene     | 10.722 | 75   | 161985   | 19.317  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.191 | 75   | 161528   | 18.820  | ug/l   | 100      |
| 50) 1,1,2-Trichloroethane     | 10.902 | 97   | 89389    | 19.670  | ug/l   | 100      |
| 51) Ethyl methacrylate        | 10.765 | 69   | 160815   | 22.430  | ug/l   | 100      |
| 52) 1,3-Dichloropropane       | 11.047 | 76   | 162211   | 20.271  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.240 | 129  | 97674    | 17.898  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.347 | 107  | 91530    | 19.204  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.043 | 63   | 188036   | 82.013  | ug/l   | 100      |
| 56) Bromoform                 | 12.460 | 173  | 64096    | 17.757  | ug/l # | 100      |
| 58) 4-Methyl-2-Pentanone      | 10.333 | 43   | 733721   | 134.417 | ug/l   | 100      |
| 59) 2-Hexanone                | 11.089 | 43   | 525932   | 136.257 | ug/l   | 100      |
| 61) Tetrachloroethene         | 10.979 | 164  | 82861    | 17.651  | ug/l   | 100      |
| 62) Toluene                   | 10.507 | 91   | 402642   | 20.409  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.771 | 112  | 231215   | 18.426  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 89583    | 18.566  | ug/l   | 100      |
| 66) Ethyl Benzene             | 11.846 | 91   | 464576   | 20.478  | ug/l   | 100      |
| 67) m/p-Xylenes               | 11.956 | 106  | 325144   | 37.686  | ug/l   | 100      |
| 68) o-Xylene                  | 12.283 | 106  | 161392   | 19.010  | ug/l   | 100      |
| 69) Styrene                   | 12.296 | 104  | 271494   | 19.329  | ug/l   | 100      |
| 70) Isopropylbenzene          | 12.581 | 105  | 418093   | 18.872  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 126427   | 20.675  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.884 | 75   | 125909m  | 20.484  | ug/l   |          |
| 73) Bromobenzene              | 12.862 | 156  | 85987    | 16.542  | ug/l   | 100      |
| 74) n-propylbenzene           | 12.921 | 91   | 494885   | 19.897  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.010 | 91   | 315190   | 19.842  | ug/l # | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 351065   | 17.846  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.626 | 75   | 42009    | 19.355  | ug/l   | 100      |
| 78) 4-Chlorotoluene           | 13.106 | 91   | 309646   | 19.257  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.326 | 119  | 284829   | 17.516  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 347041m  | 17.896  | ug/l   |          |
| 81) sec-Butylbenzene          | 13.503 | 105  | 389158   | 18.782  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.619 | 119  | 311929   | 16.319  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene       | 13.619 | 146  | 151394   | 16.717  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 13.696 | 146  | 152635   | 17.279  | ug/l   | 100      |
| 85) n-Butylbenzene            | 13.943 | 91   | 284189   | 18.244  | ug/l   | 100      |
| 86) Hexachloroethane          | 14.211 | 117  | 61373    | 19.515  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene       | 13.991 | 146  | 150425   | 16.849  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.605 | 75   | 32185    | 21.488  | ug/l   | 100      |
| 89) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 74879    | 15.366  | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 15.373 | 225  | 40215    | 18.140  | ug/l   | 100      |
| 91) Naphthalene               | 15.507 | 128  | 244625   | 16.956  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 72286    | 14.809  | ug/l   | 100      |

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

