

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061621\  
 Data File : VN067369.D  
 Acq On : 16 Jun 2021 18:02  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC020EC

Manual Integrations  
 APPROVED

MMDadoda  
 6/17/2021 3:09:46 PM

Quant Time: Jun 17 04:22:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 09:13:15 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Bromochloromethane        | 7.659          | 128  | 63822      | 30.00   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 8.971          | 114  | 388628     | 30.00   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.746         | 117  | 350649     | 30.00   | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.440          | 65   | 204978     | 30.56   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 101.87% |        |          |
| 60) 4-Bromofluorobenzene     | 12.733         | 95   | 187935     | 27.76   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 92.53%  |        |          |
| 63) Toluene-d8               | 10.446         | 98   | 522239     | 31.23   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 104.10% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 90139      | 18.94   | ug/l   | 98       |
| 3) Chloromethane             | 2.301          | 50   | 96027      | 18.81   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.445          | 62   | 91722      | 18.20   | ug/l   | 97       |
| 5) Bromomethane              | 2.850          | 94   | 48841m     | 19.31   | ug/l   |          |
| 6) Chloroethane              | 3.017          | 64   | 55724      | 18.94   | ug/l # | 89       |
| 7) Trichlorofluoromethane    | 3.373          | 101  | 126006     | 18.72   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.819          | 74   | 51667      | 18.84   | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.199          | 101  | 75667      | 19.01   | ug/l   | 83       |
| 10) 1,1-Dichloroethene       | 4.175          | 96   | 72561      | 18.77   | ug/l   | 96       |
| 11) Methyl Iodide            | 4.419          | 142  | 74308      | 15.98   | ug/l   | 95       |
| 12) Methyl Acetate           | 4.864          | 43   | 110622     | 19.29   | ug/l   | 97       |
| 13) Acrolein                 | 4.041          | 56   | 69480      | 101.52  | ug/l   | 98       |
| 14) Acrylonitrile            | 5.559          | 53   | 230826     | 95.86   | ug/l   | 100      |
| 15) Acetone                  | 4.291          | 58   | 61282      | 101.76  | ug/l   | 94       |
| 16) Carbon Disulfide         | 4.521          | 76   | 231883     | 18.92   | ug/l   | 99       |
| 17) Allyl chloride           | 4.835          | 41   | 156049     | 18.55   | ug/l   | 95       |
| 18) Methylene Chloride       | 5.098          | 84   | 92009      | 19.40   | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 5.597          | 96   | 79692      | 18.91   | ug/l   | 95       |
| 20) Diisopropyl ether        | 6.500          | 45   | 312561     | 19.15   | ug/l   | 99       |
| 21) 1,1-Dichloroethane       | 6.385          | 63   | 173325     | 19.17   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.327          | 96   | 95547      | 19.08   | ug/l   | 96       |
| 23) tert-Butyl Alcohol       | 5.382          | 59   | 93962m     | 88.04   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.618          | 73   | 306673     | 18.67   | ug/l   | 100      |
| 25) Chloroform               | 7.820          | 83   | 175351     | 18.94   | ug/l   | 99       |
| 26) Cyclohexane              | 8.096          | 56   | 153494     | 19.59   | ug/l # | 99       |
| 29) 1,1-Dichloropropene      | 8.222          | 75   | 131289     | 18.87   | ug/l   | 98       |
| 30) 2-Butanone               | 7.343          | 43   | 328548     | 92.01   | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.324          | 77   | 164291     | 22.05   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 154113     | 17.43   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.206          | 117  | 125164     | 16.85   | ug/l   | 95       |
| 34) Benzene                  | 8.461          | 78   | 370937     | 18.96   | ug/l   | 99       |
| 35) Methacrylonitrile        | 7.640          | 41   | 71763      | 18.65   | ug/l   | 99       |
| 36) 1,2-Dichloroethane       | 8.531          | 62   | 155891     | 18.73   | ug/l   | 98       |
| 37) Trichloroethene          | 9.220          | 130  | 82435      | 17.80   | ug/l   | 99       |
| 38) Methylcyclohexane        | 9.459          | 83   | 149296     | 20.84   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.494          | 63   | 100612     | 19.05   | ug/l   | 99       |
| 40) Dibromomethane           | 9.579          | 93   | 65596      | 18.08   | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.764          | 83   | 139354     | 17.82   | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.436          | 43   | 1373256    | 91.38   | ug/l   | 100      |

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Manual Integrations  
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MMDadoda  
 6/17/2021 3:09:46 PM

Quant Time: Jun 17 04:22:19 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N061121W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jun 12 09:13:15 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 7.418  | 43   | 135662   | 18.67  | ug/l # | 74       |
| 44) Isopropyl Acetate         | 8.566  | 43   | 243148   | 18.10  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.574  | 88   | 30789    | 352.12 | ug/l # | 91       |
| 46) Methyl methacrylate       | 9.563  | 41   | 102933   | 17.26  | ug/l   | 99       |
| 47) n-amyl Acetate            | 12.390 | 43   | 187301   | 16.45  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene     | 10.722 | 75   | 155671   | 18.02  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 10.194 | 75   | 164523   | 18.96  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane     | 10.902 | 97   | 87564    | 18.58  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.765 | 69   | 152638   | 17.73  | ug/l   | 100      |
| 52) 1,3-Dichloropropane       | 11.046 | 76   | 162407   | 18.92  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.242 | 129  | 88455    | 16.88  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.349 | 107  | 87038    | 17.71  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 10.043 | 63   | 196050   | 89.86  | ug/l   | 99       |
| 56) Bromoform                 | 12.463 | 173  | 55189    | 15.52  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.336 | 43   | 711730   | 92.34  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.089 | 43   | 502361   | 90.13  | ug/l   | 98       |
| 61) Tetrachloroethene         | 10.979 | 164  | 73061    | 17.98  | ug/l   | 96       |
| 62) Toluene                   | 10.507 | 91   | 399249   | 19.02  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.773 | 112  | 222764   | 18.07  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.846 | 131  | 82411    | 17.69  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.848 | 91   | 452417   | 18.57  | ug/l   | 98       |
| 67) m/p-Xylenes               | 11.956 | 106  | 316451   | 36.81  | ug/l   | 98       |
| 68) o-Xylene                  | 12.283 | 106  | 153307   | 17.86  | ug/l   | 100      |
| 69) Styrene                   | 12.299 | 104  | 251552   | 17.43  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.581 | 105  | 412988   | 18.68  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.830 | 83   | 124561   | 18.52  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.884 | 75   | 128319m  | 19.15  | ug/l   |          |
| 73) Bromobenzene              | 12.865 | 156  | 76815    | 16.70  | ug/l   | 91       |
| 74) n-propylbenzene           | 12.924 | 91   | 494509   | 18.61  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.010 | 91   | 299972   | 17.83  | ug/l # | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.063 | 105  | 337429   | 18.01  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.629 | 75   | 41634    | 17.83  | ug/l   | 97       |
| 78) 4-Chlorotoluene           | 13.109 | 91   | 298334   | 17.83  | ug/l   | 98       |
| 79) tert-butylbenzene         | 13.326 | 119  | 272068   | 18.08  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.372 | 105  | 333236m  | 18.02  | ug/l   |          |
| 81) sec-Butylbenzene          | 13.503 | 105  | 398451   | 19.07  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.618 | 119  | 312448   | 18.55  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.618 | 146  | 142677   | 17.20  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.696 | 146  | 142683   | 17.14  | ug/l   | 97       |
| 85) n-Butylbenzene            | 13.946 | 91   | 304329   | 19.42  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.214 | 117  | 59810    | 17.35  | ug/l   | 92       |
| 87) 1,2-Dichlorobenzene       | 13.991 | 146  | 139752   | 17.27  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.605 | 75   | 27014    | 15.86  | ug/l   | 97       |
| 89) 1,2,4-Trichlorobenzene    | 15.268 | 180  | 68152    | 16.56  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 15.372 | 225  | 36684    | 16.79  | ug/l   | 97       |
| 91) Naphthalene               | 15.509 | 128  | 216313   | 15.65  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.705 | 180  | 67554    | 16.87  | ug/l   | 90       |

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

