

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101424\  
 Data File : VN084408.D  
 Acq On : 14 Oct 2024 12:22  
 Operator : JC\MD  
 Sample : P4368-08 5.0PPB  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2024

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Oct 15 01:33:52 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100824W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Oct 09 02:22:28 2024  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 7.812  | 128   | 32736    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.100  | 114   | 168823   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.865 | 117   | 157182   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.577  | 65    | 77694    | 29.479   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 98.267%  |
| 60) 4-Bromofluorobenzene     | 12.847 | 95    | 74922    | 28.881   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 96.267%  |
| 63) Toluene-d8               | 10.565 | 98    | 221810   | 30.461   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 101.533% |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130  | 85    | 9752     | 4.879    | ug/l   | 99       |
| 3) Chloromethane             | 2.360  | 50    | 10974    | 4.825    | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.512  | 62    | 11070    | 4.963    | ug/l   | 91       |
| 5) Bromomethane              | 2.959  | 94    | 7465     | 5.052    | ug/l # | 80       |
| 6) Chloroethane              | 3.124  | 64    | 7544     | 5.159    | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.495  | 101   | 17753    | 4.886    | ug/l   | 97       |
| 8) Diethyl Ether             | 3.959  | 74    | 5485     | 4.106    | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 10775m   | 5.275    | ug/l   |          |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 9259     | 4.542    | ug/l   | 90       |
| 11) Methyl Iodide            | 4.589  | 142   | 11805    | 4.407    | ug/l   | 98       |
| 12) Methyl Acetate           | 5.030  | 43    | 10910    | 4.275    | ug/l   | 98       |
| 13) Acrolein                 | 4.183  | 56    | 8948m    | 18.877   | ug/l   |          |
| 14) Acrylonitrile            | 5.724  | 53    | 24155    | 21.070   | ug/l   | 98       |
| 15) Acetone                  | 4.436  | 58    | 7617     | 23.259   | ug/l   | 98       |
| 16) Carbon Disulfide         | 4.706  | 76    | 27874    | 4.592    | ug/l # | 90       |
| 17) Allyl chloride           | 5.024  | 41    | 14126    | 4.275    | ug/l   | 92       |
| 18) Methylene Chloride       | 5.271  | 84    | 10776    | 4.693    | ug/l   | 86       |
| 19) trans-1,2-Dichloroethene | 5.783  | 96    | 10028    | 4.649    | ug/l   | 84       |
| 20) Diisopropyl ether        | 6.671  | 45    | 30322    | 4.268    | ug/l   | 99       |
| 21) 1,1-Dichloroethane       | 6.565  | 63    | 20165    | 4.947    | ug/l # | 90       |
| 22) cis-1,2-Dichloroethene   | 7.489  | 96    | 11772    | 4.690    | ug/l   | 94       |
| 23) tert-Butyl Alcohol       | 5.506  | 59    | 8397m    | 19.095   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 29257m   | 4.295    | ug/l   |          |
| 25) Chloroform               | 7.965  | 83    | 20329    | 4.924    | ug/l   | 96       |
| 26) Cyclohexane              | 8.259  | 56    | 13693    | 4.016    | ug/l # | 91       |
| 29) 1,1-Dichloropropene      | 8.371  | 75    | 12649    | 4.564    | ug/l   | 98       |
| 30) 2-Butanone               | 7.489  | 43    | 33988    | 23.034   | ug/l # | 96       |
| 31) 2,2-Dichloropropane      | 7.489  | 77    | 17009    | 5.223    | ug/l # | 81       |
| 32) 1,1,1-Trichloroethane    | 8.165  | 97    | 18634    | 5.260    | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.359  | 117   | 15123    | 4.928    | ug/l   | 92       |
| 34) Benzene                  | 8.600  | 78    | 43375    | 5.000    | ug/l # | 88       |
| 35) Methacrylonitrile        | 7.783  | 41    | 7209     | 4.580    | ug/l   | 92       |
| 36) 1,2-Dichloroethane       | 8.677  | 62    | 15427m   | 5.335    | ug/l   |          |
| 37) Trichloroethene          | 9.353  | 130   | 10286    | 5.149    | ug/l   | 93       |
| 38) Methylcyclohexane        | 9.600  | 83    | 12921    | 4.245    | ug/l   | 95       |
| 39) 1,2-Dichloropropane      | 9.618  | 63    | 10602    | 5.012    | ug/l   | 100      |
| 40) Dibromomethane           | 9.706  | 93    | 7582     | 5.128    | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.883  | 83    | 15565    | 4.959    | ug/l # | 99       |
| 42) Vinyl Acetate            | 6.606  | 43    | 103223   | 20.115   | ug/l   | 100      |

10/15/2024  
 Supervised By :Mahesh  
 Radoda

10/15/2024

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LOQ-WATER-02-QT4-2024

Quant Time: Oct 15 01:33:52 2024  
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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 7.559  | 43   | 13385    | 4.600  | ug/l   | 100      |
| 44) Isopropyl Acetate         | 8.689  | 43   | 21426    | 4.498  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.694  | 88   | 3704     | 86.267 | ug/l   | 95       |
| 46) Methyl methacrylate       | 9.677  | 41   | 8675     | 3.770  | ug/l   | 88       |
| 47) n-amyl Acetate            | 12.494 | 43   | 16285    | 3.844  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene     | 10.835 | 75   | 14558    | 4.488  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 10.312 | 75   | 15653    | 4.605  | ug/l # | 94       |
| 50) 1,1,2-Trichloroethane     | 11.012 | 97   | 10293    | 5.179  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 10.871 | 69   | 12525    | 3.816  | ug/l   | 88       |
| 52) 1,3-Dichloropropane       | 11.165 | 76   | 16833    | 4.844  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.359 | 129  | 11757    | 5.008  | ug/l   | 97       |
| 54) 1,2-Dibromoethane         | 11.471 | 107  | 10232    | 5.002  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 10.159 | 63   | 29271    | 19.661 | ug/l   | 98       |
| 56) Bromoform                 | 12.577 | 173  | 7396     | 4.750  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.447 | 43   | 60018    | 20.498 | ug/l   | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 44695    | 20.542 | ug/l   | 97       |
| 61) Tetrachloroethene         | 11.106 | 164  | 8642     | 4.861  | ug/l   | 94       |
| 62) Toluene                   | 10.630 | 91   | 45878    | 4.986  | ug/l   | 98       |
| 64) Chlorobenzene             | 11.888 | 112  | 28799    | 5.029  | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 9778     | 4.915  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.965 | 91   | 42566    | 4.258  | ug/l   | 100      |
| 67) m/p-Xylenes               | 12.071 | 106  | 33310    | 8.783  | ug/l   | 96       |
| 68) o-Xylene                  | 12.394 | 106  | 15662    | 4.284  | ug/l   | 97       |
| 69) Styrene                   | 12.412 | 104  | 25167    | 4.011  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.694 | 105  | 40683    | 4.359  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 14170    | 4.908  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.994 | 75   | 14270m   | 5.772  | ug/l   |          |
| 73) Bromobenzene              | 12.982 | 156  | 10527    | 4.658  | ug/l   | 96       |
| 74) n-propylbenzene           | 13.035 | 91   | 46666    | 4.196  | ug/l   | 97       |
| 75) 2-Chlorotoluene           | 13.124 | 91   | 30943    | 4.478  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.171 | 105  | 33148    | 4.219  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.735 | 75   | 4154     | 3.932  | ug/l   | 97       |
| 78) 4-Chlorotoluene           | 13.218 | 91   | 31832    | 4.531  | ug/l   | 99       |
| 79) tert-butylbenzene         | 13.435 | 119  | 28778    | 4.293  | ug/l   | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.482 | 105  | 32042    | 4.019  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.618 | 105  | 38788    | 4.203  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.729 | 119  | 30421    | 3.916  | ug/l   | 97       |
| 83) 1,3-Dichlorobenzene       | 13.735 | 146  | 19482    | 4.636  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.812 | 146  | 18666    | 4.473  | ug/l   | 96       |
| 85) n-Butylbenzene            | 14.053 | 91   | 25970    | 3.860  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.335 | 117  | 7603     | 5.080  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.106 | 146  | 18226    | 4.486  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.718 | 75   | 2509     | 4.250  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene    | 15.835 | 180  | 8238     | 3.900  | ug/l   | 97       |
| 90) Hexachlorobutadiene       | 15.500 | 225  | 4501     | 4.605  | ug/l   | 98       |
| 91) Naphthalene               | 15.641 | 128  | 20736    | 2.897  | ug/l # | 94       |
| 92) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 8238     | 3.900  | ug/l   | 97       |

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

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ALS Vial : 7 Sample Multiplier: 1

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