

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052124\  
 Data File : VX041578.D  
 Acq On : 21 May 2024 10:21  
 Operator : JC/MD  
 Sample : VX0521WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0521WBS01

Manual Integrations  
 APPROVED

Reviewed By :Mahesh  
 Dadoda

05/22/2024  
 Supervised By :Semsettin  
 Yesilyurt

Quant Time: May 22 02:51:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 16 05:13:13 2024  
 Response via : Initial Calibration

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 4.891  | 128  | 39713    | 30.000 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.757  | 114  | 214371   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.049 | 117  | 200935   | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 5.946  | 65    | 90091    | 28.807   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 96.033%  |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 97302    | 31.020   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 103.400% |
| 63) Toluene-d8              | 8.647  | 98    | 254954   | 29.600   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 98.667%  |

|                              |       |     |        |         |        |        |
|------------------------------|-------|-----|--------|---------|--------|--------|
| Target Compounds             |       |     |        |         |        | Qvalue |
| 2) Dichlorodifluoromethane   | 1.166 | 85  | 43230  | 20.812  | ug/l   | 97     |
| 3) Chloromethane             | 1.294 | 50  | 44345  | 19.496  | ug/l   | 98     |
| 4) Vinyl Chloride            | 1.374 | 62  | 47588  | 19.871  | ug/l   | 98     |
| 5) Bromomethane              | 1.599 | 94  | 28813  | 18.916  | ug/l   | 99     |
| 6) Chloroethane              | 1.666 | 64  | 26989  | 22.291  | ug/l   | 92     |
| 7) Trichlorofluoromethane    | 1.868 | 101 | 77113  | 21.214  | ug/l   | 99     |
| 8) Diethyl Ether             | 2.136 | 74  | 27505  | 20.262  | ug/l   | 99     |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 47286  | 22.432  | ug/l   | 97     |
| 10) 1,1-Dichloroethene       | 2.313 | 96  | 44625  | 21.963  | ug/l   | 96     |
| 11) Methyl Iodide            | 2.447 | 142 | 47924  | 19.803  | ug/l   | 96     |
| 12) Methyl Acetate           | 2.703 | 43  | 68750  | 22.467  | ug/l   | 98     |
| 13) Acrolein                 | 2.239 | 56  | 41492  | 111.379 | ug/l   | 96     |
| 14) Acrylonitrile            | 3.062 | 53  | 138558 | 102.987 | ug/l   | 99     |
| 15) Acetone                  | 2.386 | 58  | 49005  | 135.946 | ug/l   | 95     |
| 16) Carbon Disulfide         | 2.502 | 76  | 99399  | 21.667  | ug/l   | 99     |
| 17) Allyl chloride           | 2.654 | 41  | 78351  | 21.730  | ug/l   | 98     |
| 18) Methylene Chloride       | 2.782 | 84  | 50043  | 20.708  | ug/l   | 97     |
| 19) trans-1,2-Dichloroethene | 3.081 | 96  | 46440  | 19.932  | ug/l   | 98     |
| 20) Diisopropyl ether        | 3.757 | 45  | 156049 | 20.598  | ug/l   | 98     |
| 21) 1,1-Dichloroethane       | 3.605 | 63  | 85288  | 20.059  | ug/l   | 99     |
| 22) cis-1,2-Dichloroethene   | 4.483 | 96  | 56169  | 19.840  | ug/l   | 99     |
| 23) tert-Butyl Alcohol       | 2.989 | 59  | 58990  | 103.321 | ug/l # | 100    |
| 24) Methyl tert-Butyl Ether  | 3.111 | 73  | 154194 | 20.327  | ug/l   | 99     |
| 25) Chloroform               | 5.080 | 83  | 91612  | 20.225  | ug/l   | 97     |
| 26) Cyclohexane              | 5.464 | 56  | 70727  | 19.948  | ug/l # | 99     |
| 29) 1,1-Dichloropropene      | 5.684 | 75  | 61459  | 21.673  | ug/l   | 99     |
| 30) 2-Butanone               | 4.556 | 43  | 215924 | 114.717 | ug/l   | 100    |
| 31) 2,2-Dichloropropane      | 4.465 | 77  | 73599  | 22.114  | ug/l   | 100    |
| 32) 1,1,1-Trichloroethane    | 5.373 | 97  | 81326  | 21.374  | ug/l   | 99     |
| 33) Carbon Tetrachloride     | 5.666 | 117 | 71307  | 21.903  | ug/l   | 97     |
| 34) Benzene                  | 6.031 | 78  | 191475 | 21.380  | ug/l   | 97     |
| 35) Methacrylonitrile        | 4.916 | 41  | 41857  | 22.045  | ug/l   | 95     |
| 36) 1,2-Dichloroethane       | 6.080 | 62  | 71786  | 21.480  | ug/l   | 99     |
| 37) Trichloroethene          | 7.123 | 130 | 53179  | 21.312  | ug/l   | 99     |
| 38) Methylcyclohexane        | 7.373 | 83  | 77137  | 21.423  | ug/l   | 100    |
| 39) 1,2-Dichloropropane      | 7.428 | 63  | 44759  | 21.142  | ug/l   | 97     |
| 40) Dibromomethane           | 7.574 | 93  | 35777  | 21.473  | ug/l   | 99     |
| 41) Bromodichloromethane     | 7.818 | 83  | 69199  | 22.122  | ug/l   | 100    |
| 42) Vinyl Acetate            | 3.715 | 43  | 704017 | 107.805 | ug/l   | 100    |

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 Sample : VX0521WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

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 ClientSampleId :  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 16 05:13:13 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 75511    | 20.792  | ug/l  | 99       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 117978   | 21.490  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 7.665  | 88   | 25939    | 418.960 | ug/l  | 93       |
| 46) Methyl methacrylate       | 7.690  | 41   | 59181    | 21.666  | ug/l  | 99       |
| 47) n-amyl Acetate            | 10.842 | 43   | 106462   | 21.385  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 67302    | 21.425  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 8.360  | 75   | 73734    | 21.671  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 50195    | 21.656  | ug/l  | 95       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 78689    | 21.092  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 83744    | 21.865  | ug/l  | 99       |
| 53) Dibromochloromethane      | 9.519  | 129  | 58618    | 22.227  | ug/l  | 100      |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 54264    | 22.078  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 209274   | 114.922 | ug/l  | 100      |
| 56) Bromoform                 | 10.799 | 173  | 47237    | 22.357  | ug/l  | 100      |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 404766   | 110.249 | ug/l  | 98       |
| 59) 2-Hexanone                | 9.427  | 43   | 328690   | 112.381 | ug/l  | 100      |
| 61) Tetrachloroethene         | 9.269  | 164  | 52793    | 21.475  | ug/l  | 95       |
| 62) Toluene                   | 8.714  | 91   | 212125   | 21.216  | ug/l  | 100      |
| 64) Chlorobenzene             | 10.079 | 112  | 144188   | 21.231  | ug/l  | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 52533    | 21.855  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 237227   | 21.367  | ug/l  | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 189842   | 43.728  | ug/l  | 98       |
| 68) o-Xylene                  | 10.640 | 106  | 93568    | 21.411  | ug/l  | 100      |
| 69) Styrene                   | 10.653 | 104  | 158370   | 21.614  | ug/l  | 100      |
| 70) Isopropylbenzene          | 10.963 | 105  | 246371   | 22.311  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 83244    | 21.944  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 69837m   | 20.414  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 69328    | 21.367  | ug/l  | 100      |
| 74) n-propylbenzene           | 11.305 | 91   | 277340   | 22.273  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 170207   | 21.767  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 205478   | 21.800  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 23968    | 22.290  | ug/l  | 90       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 195548   | 21.957  | ug/l  | 100      |
| 79) tert-butylbenzene         | 11.713 | 119  | 219916   | 21.922  | ug/l  | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 205543   | 21.757  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 256254   | 21.860  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 229827   | 22.397  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 125393   | 21.548  | ug/l  | 100      |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 127483   | 21.681  | ug/l  | 100      |
| 85) n-Butylbenzene            | 12.329 | 91   | 180430   | 21.851  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 36784    | 21.292  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 128273   | 21.597  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 18627    | 22.359  | ug/l  | 98       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 87257    | 21.864  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 43676    | 22.433  | ug/l  | 98       |
| 91) Naphthalene               | 13.774 | 128  | 264795   | 22.200  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 90168    | 22.114  | ug/l  | 98       |

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

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 Sample : VX0521WBS01  
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 ALS Vial : 3 Sample Multiplier: 1

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