

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX040623\  
 Data File : VX034950.D  
 Acq On : 06 Apr 2023 10:34  
 Operator : JC/MD  
 Sample : VX0406WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0406WBSD01

Manual Integrations  
 APPROVED

Reviewed By :John

Carlone

04/07/2023

Supervised By :Mahesh

Dadoda

04/07/2023

Quant Time: Apr 07 03:16:51 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X032823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 28 09:11:00 2023  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) | Qvalue |
|------------------------------|--------|-------|----------|----------|-------|----------|--------|
| Internal Standards           |        |       |          |          |       |          |        |
| 1) Bromochloromethane        | 4.898  | 128   | 27995    | 30.000   | ug/l  | 0.00     |        |
| 28) 1,4-Difluorobenzene      | 6.763  | 114   | 193249   | 30.000   | ug/l  | 0.00     |        |
| 57) Chlorobenzene-d5         | 10.055 | 117   | 209082   | 30.000   | ug/l  | 0.00     |        |
| System Monitoring Compounds  |        |       |          |          |       |          |        |
| 27) 1,2-Dichloroethane-d4    | 5.958  | 65    | 88952    | 33.069   | ug/l  | 0.00     |        |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =     | 110.233% | #      |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 124228   | 29.735   | ug/l  | 0.00     |        |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =     | 99.133%  |        |
| 63) Toluene-d8               | 8.647  | 98    | 211009   | 29.697   | ug/l  | 0.00     |        |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =     | 99.000%  |        |
| Target Compounds             |        |       |          |          |       |          |        |
| 2) Dichlorodifluoromethane   | 1.167  | 85    | 61709    | 23.241   | ug/l  |          | 97     |
| 3) Chloromethane             | 1.295  | 50    | 68113    | 19.784   | ug/l  |          | 95     |
| 4) Vinyl Chloride            | 1.374  | 62    | 64569    | 19.009   | ug/l  |          | 97     |
| 5) Bromomethane              | 1.618  | 94    | 42163    | 18.871   | ug/l  |          | 95     |
| 6) Chloroethane              | 1.691  | 64    | 39100    | 17.688   | ug/l  |          | 98     |
| 7) Trichlorofluoromethane    | 1.892  | 101   | 91668    | 16.942   | ug/l  |          | 99     |
| 8) Diethyl Ether             | 2.130  | 74    | 40198    | 20.636   | ug/l  |          | 100    |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 56157    | 20.457   | ug/l  |          | 98     |
| 10) 1,1-Dichloroethene       | 2.319  | 96    | 51982    | 18.707   | ug/l  |          | 94     |
| 11) Methyl Iodide            | 2.453  | 142   | 63536    | 17.955   | ug/l  |          | 99     |
| 12) Methyl Acetate           | 2.703  | 43    | 132765   | 21.575   | ug/l  |          | 99     |
| 13) Acrolein                 | 2.240  | 56    | 68474    | 95.955   | ug/l  |          | 99     |
| 14) Acrylonitrile            | 3.063  | 53    | 179268   | 105.794  | ug/l  |          | 98     |
| 15) Acetone                  | 2.392  | 58    | 56774    | 123.412  | ug/l  |          | 98     |
| 16) Carbon Disulfide         | 2.514  | 76    | 122314   | 17.209   | ug/l  |          | 97     |
| 17) Allyl chloride           | 2.666  | 41    | 107717   | 20.032   | ug/l  |          | 98     |
| 18) Methylene Chloride       | 2.788  | 84    | 65418    | 19.985   | ug/l  |          | 98     |
| 19) trans-1,2-Dichloroethene | 3.093  | 96    | 57359    | 18.864   | ug/l  |          | 91     |
| 20) Diisopropyl ether        | 3.758  | 45    | 226610   | 20.571   | ug/l  |          | 96     |
| 21) 1,1-Dichloroethane       | 3.611  | 63    | 117293   | 19.912   | ug/l  |          | 98     |
| 22) cis-1,2-Dichloroethene   | 4.489  | 96    | 68514    | 19.346   | ug/l  |          | 97     |
| 23) tert-Butyl Alcohol       | 3.002  | 59    | 80087m   | 105.044  | ug/l  |          |        |
| 24) Methyl tert-Butyl Ether  | 3.111  | 73    | 218043   | 21.116   | ug/l  |          | 100    |
| 25) Chloroform               | 5.093  | 83    | 120613   | 20.131   | ug/l  |          | 100    |
| 26) Cyclohexane              | 5.471  | 56    | 95914    | 18.581   | ug/l  | #        | 97     |
| 29) 1,1-Dichloropropene      | 5.690  | 75    | 84774    | 19.073   | ug/l  |          | 98     |
| 30) 2-Butanone               | 4.562  | 43    | 275337   | 111.079  | ug/l  |          | 100    |
| 31) 2,2-Dichloropropane      | 4.477  | 77    | 88608    | 19.658   | ug/l  |          | 100    |
| 32) 1,1,1-Trichloroethane    | 5.379  | 97    | 98734    | 18.935   | ug/l  |          | 99     |
| 33) Carbon Tetrachloride     | 5.678  | 117   | 84109    | 19.545   | ug/l  |          | 97     |
| 34) Benzene                  | 6.038  | 78    | 249382   | 19.307   | ug/l  |          | 98     |
| 35) Methacrylonitrile        | 4.922  | 41    | 57393    | 21.155   | ug/l  |          | 96     |
| 36) 1,2-Dichloroethane       | 6.086  | 62    | 108393   | 21.403   | ug/l  |          | 99     |
| 37) Trichloroethene          | 7.129  | 130   | 62375    | 18.975   | ug/l  |          | 99     |
| 38) Methylcyclohexane        | 7.379  | 83    | 89323    | 18.394   | ug/l  |          | 95     |
| 39) 1,2-Dichloropropane      | 7.428  | 63    | 67073    | 19.977   | ug/l  |          | 97     |
| 40) Dibromomethane           | 7.580  | 93    | 46529    | 20.174   | ug/l  |          | 99     |
| 41) Bromodichloromethane     | 7.818  | 83    | 88455    | 20.361   | ug/l  | #        | 97     |
| 42) Vinyl Acetate            | 3.721  | 43    | 846636   | 104.696  | ug/l  |          | 100    |

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.715  | 43   | 101848   | 21.186  | ug/l  | 98       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 165834   | 20.378  | ug/l  | 98       |
| 45) 1,4-Dioxane               | 7.708  | 88   | 35747    | 443.367 | ug/l  | 97       |
| 46) Methyl methacrylate       | 7.690  | 41   | 82358    | 20.770  | ug/l  | 94       |
| 47) n-amyl Acetate            | 10.842 | 43   | 135532   | 19.156  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 90780    | 19.179  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 102192   | 19.652  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 66638    | 20.739  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 103207   | 19.791  | ug/l  | 97       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 118043   | 20.797  | ug/l  | 98       |
| 53) Dibromochloromethane      | 9.519  | 129  | 63753    | 20.057  | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 69667    | 20.270  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 283993   | 103.482 | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 41273    | 18.832  | ug/l  | 98       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 513779   | 107.176 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 394080   | 109.184 | ug/l  | 100      |
| 61) Tetrachloroethene         | 9.275  | 164  | 55807    | 19.809  | ug/l  | 97       |
| 62) Toluene                   | 8.720  | 91   | 264127   | 19.320  | ug/l  | 98       |
| 64) Chlorobenzene             | 10.080 | 112  | 165045   | 19.604  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 60664    | 20.156  | ug/l  | 99       |
| 66) Ethyl Benzene             | 10.195 | 91   | 296344   | 19.462  | ug/l  | 99       |
| 67) m/p-Xylenes               | 10.299 | 106  | 225958   | 39.000  | ug/l  | 99       |
| 68) o-Xylene                  | 10.640 | 106  | 112544   | 19.643  | ug/l  | 98       |
| 69) Styrene                   | 10.653 | 104  | 185106   | 19.597  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.964 | 105  | 288753   | 19.473  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 101370   | 20.797  | ug/l  | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 85107m   | 19.182  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 69733    | 19.581  | ug/l  | 95       |
| 74) n-propylbenzene           | 11.305 | 91   | 334511   | 19.378  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 210115   | 19.525  | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 243337   | 19.494  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 23702    | 17.394  | ug/l  | 88       |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 242181   | 19.630  | ug/l  | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 227633   | 19.103  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 244109   | 19.679  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 275225   | 19.062  | ug/l  | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 230118   | 18.887  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 131659   | 19.577  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 129371   | 19.156  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.335 | 91   | 196286   | 18.692  | ug/l  | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 34264    | 17.170  | ug/l  | 100      |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 129671   | 19.705  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 21825    | 20.490  | ug/l  | 94       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 76672    | 19.422  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 32103    | 21.087  | ug/l  | 96       |
| 91) Naphthalene               | 13.774 | 128  | 279560   | 20.044  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 76868    | 19.478  | ug/l  | 99       |

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

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