

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112723\  
 Data File : VX039032.D  
 Acq On : 27 Nov 2023 11:18  
 Operator : JC/MD  
 Sample : VX1127WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1127WBSD01

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Nov 28 01:10:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 4.897          | 128  | 9921                | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763          | 114  | 76763               | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 93854               | 30.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.952          | 65   | 41805               | 30.801  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 102.667% |         |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 60602               | 29.563  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 98.533%  |         |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 113300              | 30.534  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 101.767% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.166          | 85   | 30063               | 20.245  | ug/l   | 98       |
| 3) Chloromethane             | 1.294          | 50   | 32747               | 19.260  | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374          | 62   | 33343               | 19.425  | ug/l   | 98       |
| 5) Bromomethane              | 1.605          | 94   | 24165               | 23.017  | ug/l   | 96       |
| 6) Chloroethane              | 1.691          | 64   | 20275               | 20.283  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 47938               | 20.235  | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 19326               | 21.251  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 27635               | 20.642  | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.319          | 96   | 26960               | 19.978  | ug/l   | 98       |
| 11) Methyl Iodide            | 2.453          | 142  | 29905               | 20.223  | ug/l   | 99       |
| 12) Methyl Acetate           | 2.697          | 43   | 87742               | 20.847  | ug/l   | 99       |
| 13) Acrolein                 | 2.233          | 56   | 44235               | 119.973 | ug/l   | 99       |
| 14) Acrylonitrile            | 3.056          | 53   | 111316              | 108.136 | ug/l   | 98       |
| 15) Acetone                  | 2.373          | 58   | 37602               | 100.491 | ug/l   | 93       |
| 16) Carbon Disulfide         | 2.514          | 76   | 78893               | 19.303  | ug/l   | 97       |
| 17) Allyl chloride           | 2.666          | 41   | 55341               | 20.658  | ug/l   | 95       |
| 18) Methylene Chloride       | 2.788          | 84   | 32108               | 20.072  | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 3.093          | 96   | 30568               | 20.028  | ug/l   | 92       |
| 20) Diisopropyl ether        | 3.757          | 45   | 105849              | 20.763  | ug/l   | 92       |
| 21) 1,1-Dichloroethane       | 3.611          | 63   | 57774               | 20.382  | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 4.489          | 96   | 35349               | 19.985  | ug/l   | 99       |
| 23) tert-Butyl Alcohol       | 2.947          | 59   | 59509               | 104.424 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 103201              | 20.760  | ug/l   | 98       |
| 25) Chloroform               | 5.092          | 83   | 58028               | 20.397  | ug/l   | 95       |
| 26) Cyclohexane              | 5.470          | 56   | 51308               | 19.999  | ug/l # | 100      |
| 29) 1,1-Dichloropropene      | 5.690          | 75   | 43402               | 20.169  | ug/l   | 100      |
| 30) 2-Butanone               | 4.550          | 43   | 170012              | 104.936 | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 4.471          | 77   | 50984               | 20.722  | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 51151               | 20.566  | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 5.678          | 117  | 42664               | 20.364  | ug/l   | 95       |
| 34) Benzene                  | 6.031          | 78   | 127844              | 20.394  | ug/l   | 95       |
| 35) Methacrylonitrile        | 4.916          | 41   | 30155               | 21.012  | ug/l   | 97       |
| 36) 1,2-Dichloroethane       | 6.086          | 62   | 48821               | 21.226  | ug/l   | 99       |
| 37) Trichloroethene          | 7.123          | 130  | 31832               | 20.008  | ug/l   | 100      |
| 38) Methylcyclohexane        | 7.373          | 83   | 55401               | 20.663  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.427          | 63   | 34063               | 20.604  | ug/l   | 96       |
| 40) Dibromomethane           | 7.580          | 93   | 24026               | 20.569  | ug/l   | 99       |
| 41) Bromodichloromethane     | 7.818          | 83   | 45957               | 20.480  | ug/l   | 98       |
| 42) Vinyl Acetate            | 3.721          | 43   | 415909              | 107.780 | ug/l   | 100      |

11/28/2023  
 Supervised By :Mahesh  
 Radoda

11/28/2023

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 Sample : VX1127WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1127WBSD01

Manual Integrations  
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Reviewed By :John  
 Carlone

Quant Time: Nov 28 01:10:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 43) Ethyl Acetate             | 4.708  | 43   | 60218    | 21.604  | ug/l  | 99       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 94586    | 21.526  | ug/l  | 100      |
| 45) 1,4-Dioxane               | 7.653  | 88   | 18374    | 409.619 | ug/l  | 97       |
| 46) Methyl methacrylate       | 7.690  | 41   | 53524    | 21.305  | ug/l  | 98       |
| 47) n-amyl Acetate            | 10.841 | 43   | 74825    | 20.119  | ug/l  | 100      |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 53108    | 20.410  | ug/l  | 94       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 56110    | 20.904  | ug/l  | 99       |
| 50) 1,1,2-Trichloroethane     | 9.147  | 97   | 33519    | 21.124  | ug/l  | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 42245    | 21.268  | ug/l  | 94       |
| 52) 1,3-Dichloropropane       | 9.305  | 76   | 56520    | 20.773  | ug/l  | 100      |
| 53) Dibromochloromethane      | 9.519  | 129  | 34108    | 20.015  | ug/l  | 98       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 36451    | 20.948  | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 123746   | 98.290  | ug/l  | 99       |
| 56) Bromoform                 | 10.799 | 173  | 25808    | 20.984  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.567  | 43   | 313127   | 110.020 | ug/l  | 99       |
| 59) 2-Hexanone                | 9.427  | 43   | 254941   | 109.127 | ug/l  | 100      |
| 61) Tetrachloroethene         | 9.269  | 164  | 26015    | 21.319  | ug/l  | 94       |
| 62) Toluene                   | 8.714  | 91   | 138871   | 20.841  | ug/l  | 99       |
| 64) Chlorobenzene             | 10.079 | 112  | 84149    | 20.761  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 10.159 | 131  | 31248    | 21.407  | ug/l  | 98       |
| 66) Ethyl Benzene             | 10.189 | 91   | 158689   | 20.915  | ug/l  | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 117138   | 41.779  | ug/l  | 100      |
| 68) o-Xylene                  | 10.640 | 106  | 56195    | 20.691  | ug/l  | 98       |
| 69) Styrene                   | 10.652 | 104  | 82842    | 20.611  | ug/l  | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 149726   | 20.605  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 57145    | 21.066  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 49552m   | 21.587  | ug/l  |          |
| 73) Bromobenzene              | 11.195 | 156  | 34176    | 20.658  | ug/l  | 99       |
| 74) n-propylbenzene           | 11.305 | 91   | 184163   | 20.686  | ug/l  | 100      |
| 75) 2-Chlorotoluene           | 11.360 | 91   | 106001   | 20.294  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 129891   | 20.749  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 18947    | 20.831  | ug/l  | 94       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 125059   | 20.365  | ug/l  | 100      |
| 79) tert-butylbenzene         | 11.713 | 119  | 123145   | 20.688  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 128332   | 20.483  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 154690   | 20.557  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 132041   | 20.704  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 66140    | 20.890  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 66828    | 20.571  | ug/l  | 99       |
| 85) n-Butylbenzene            | 12.335 | 91   | 129285   | 20.527  | ug/l  | 99       |
| 86) Hexachloroethane          | 12.536 | 117  | 24129    | 19.968  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 63675    | 20.915  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 15159    | 21.851  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 41906    | 20.761  | ug/l  | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 15275    | 21.194  | ug/l  | 99       |
| 91) Naphthalene               | 13.774 | 128  | 153417   | 20.609  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 40515    | 20.722  | ug/l  | 99       |

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

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 Acq On : 27 Nov 2023 11:18  
 Operator : JC/MD  
 Sample : VX1127WBSD01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1127WBSD01

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

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