

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX092823\  
 Data File : VX037940.D  
 Acq On : 28 Sep 2023 10:27  
 Operator : JC/MD  
 Sample : VX0928WBS01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0928WBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/29/2023  
 Supervised By : Semsettin Yesilyurt 09/29/2023

Quant Time: Sep 29 04:21:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X092723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Sep 28 06:08:32 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 4.898          | 128  | 50046      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763          | 114  | 280244     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055         | 117  | 264876     | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958          | 65   | 105483     | 29.240   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 97.467%  |        |          |
| 60) 4-Bromofluorobenzene     | 11.079         | 95   | 128677     | 29.801   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 99.333%  |        |          |
| 63) Toluene-d8               | 8.647          | 98   | 348243     | 30.456   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 101.533% |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.167          | 85   | 51190      | 19.512   | ug/l   | 100      |
| 3) Chloromethane             | 1.295          | 50   | 54621      | 19.440   | ug/l   | 95       |
| 4) Vinyl Chloride            | 1.374          | 62   | 62086      | 19.739   | ug/l   | 100      |
| 5) Bromomethane              | 1.612          | 94   | 46698      | 19.273   | ug/l   | 99       |
| 6) Chloroethane              | 1.691          | 64   | 40881      | 19.361   | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 1.892          | 101  | 103614     | 19.957   | ug/l   | 99       |
| 8) Diethyl Ether             | 2.130          | 74   | 37712      | 19.688   | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331          | 101  | 52917      | 19.992   | ug/l   | 98       |
| 10) 1,1-Dichloroethene       | 2.319          | 96   | 50588      | 19.524   | ug/l   | 95       |
| 11) Methyl Iodide            | 2.453          | 142  | 68940      | 19.659   | ug/l   | 100      |
| 12) Methyl Acetate           | 2.703          | 43   | 102971     | 19.552   | ug/l   | 97       |
| 13) Acrolein                 | 2.233          | 56   | 61516      | 101.218  | ug/l   | 94       |
| 14) Acrylonitrile            | 3.063          | 53   | 143311     | 98.555   | ug/l   | 98       |
| 15) Acetone                  | 2.380          | 58   | 45641      | 108.511  | ug/l   | 80       |
| 16) Carbon Disulfide         | 2.514          | 76   | 126414     | 19.993   | ug/l   | 99       |
| 17) Allyl chloride           | 2.666          | 41   | 77482      | 19.532   | ug/l   | 97       |
| 18) Methylene Chloride       | 2.788          | 84   | 60012      | 19.324   | ug/l   | 97       |
| 19) trans-1,2-Dichloroethene | 3.093          | 96   | 57852      | 19.809   | ug/l   | 96       |
| 20) Diisopropyl ether        | 3.758          | 45   | 167263     | 19.750   | ug/l # | 85       |
| 21) 1,1-Dichloroethane       | 3.611          | 63   | 98953      | 19.339   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.489          | 96   | 66633      | 19.216   | ug/l   | 98       |
| 23) tert-Butyl Alcohol       | 2.953          | 59   | 61598m     | 101.526  | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 3.111          | 73   | 175661     | 19.586   | ug/l   | 96       |
| 25) Chloroform               | 5.093          | 83   | 109081     | 19.385   | ug/l   | 97       |
| 26) Cyclohexane              | 5.471          | 56   | 86650      | 19.899   | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 5.696          | 75   | 80935      | 19.979   | ug/l   | 98       |
| 30) 2-Butanone               | 4.550          | 43   | 196976     | 101.317  | ug/l   | 95       |
| 31) 2,2-Dichloropropane      | 4.477          | 77   | 83335      | 20.420   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 5.385          | 97   | 95797      | 19.735   | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 5.678          | 117  | 82602      | 19.878   | ug/l   | 97       |
| 34) Benzene                  | 6.038          | 78   | 232757     | 19.234   | ug/l   | 98       |
| 35) Methacrylonitrile        | 4.916          | 41   | 39694      | 19.420   | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 6.086          | 62   | 80807      | 18.876   | ug/l   | 97       |
| 37) Trichloroethene          | 7.129          | 130  | 65532      | 19.629   | ug/l   | 93       |
| 38) Methylcyclohexane        | 7.379          | 83   | 101012     | 19.838   | ug/l   | 97       |
| 39) 1,2-Dichloropropane      | 7.428          | 63   | 58908      | 19.027   | ug/l   | 93       |
| 40) Dibromomethane           | 7.580          | 93   | 44039      | 19.277   | ug/l   | 97       |
| 41) Bromodichloromethane     | 7.818          | 83   | 80850      | 19.384   | ug/l   | 98       |
| 42) Vinyl Acetate            | 3.721          | 43   | 608795     | 99.335   | ug/l   | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

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 ClientSampleId :  
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Sep 28 06:08:32 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.709  | 43   | 75361    | 19.608  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 6.336  | 43   | 123921   | 19.489  | ug/l   | 97       |
| 45) 1,4-Dioxane               | 7.659  | 88   | 31484    | 429.696 | ug/l # | 1        |
| 46) Methyl methacrylate       | 7.690  | 41   | 59887    | 19.814  | ug/l   | 95       |
| 47) n-amyl Acetate            | 10.842 | 43   | 114013   | 19.059  | ug/l   | 96       |
| 48) t-1,3-Dichloropropene     | 8.976  | 75   | 87160    | 19.236  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 95445    | 19.615  | ug/l   | 94       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 64436    | 19.737  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 90787    | 18.873  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 101991   | 19.475  | ug/l   | 98       |
| 53) Dibromochloromethane      | 9.519  | 129  | 64871    | 19.280  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 67395    | 19.024  | ug/l   | 98       |
| 55) 2-Chloroethyl vinyl ether | 8.238  | 63   | 256369   | 109.330 | ug/l   | 98       |
| 56) Bromoform                 | 10.799 | 173  | 47139    | 18.628  | ug/l   | 100      |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 391743   | 101.031 | ug/l   | 96       |
| 59) 2-Hexanone                | 9.427  | 43   | 305534   | 103.759 | ug/l   | 97       |
| 61) Tetrachloroethene         | 9.275  | 164  | 56128    | 19.912  | ug/l   | 98       |
| 62) Toluene                   | 8.720  | 91   | 271344   | 19.749  | ug/l   | 99       |
| 64) Chlorobenzene             | 10.080 | 112  | 170369   | 19.877  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 61171    | 19.661  | ug/l   | 99       |
| 66) Ethyl Benzene             | 10.195 | 91   | 306255   | 20.196  | ug/l   | 98       |
| 67) m/p-Xylenes               | 10.299 | 106  | 237244   | 39.715  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 114788   | 19.843  | ug/l   | 98       |
| 69) Styrene                   | 10.653 | 104  | 192244   | 19.809  | ug/l   | 97       |
| 70) Isopropylbenzene          | 10.964 | 105  | 307450   | 20.026  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 99853    | 19.735  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 88783m   | 19.984  | ug/l   |          |
| 73) Bromobenzene              | 11.195 | 156  | 77797    | 19.979  | ug/l   | 91       |
| 74) n-propylbenzene           | 11.305 | 91   | 374430   | 20.415  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 216735   | 20.185  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 265209   | 20.032  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 27042    | 19.219  | ug/l   | 93       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 252149   | 20.018  | ug/l   | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 262533   | 20.148  | ug/l   | 95       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 264651   | 20.109  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 338852   | 20.221  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 12.006 | 119  | 285496   | 20.293  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 149784   | 19.908  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 151762   | 19.905  | ug/l   | 98       |
| 85) n-Butylbenzene            | 12.329 | 91   | 267500   | 20.323  | ug/l   | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 46111    | 20.117  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 146382   | 19.746  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.939 | 75   | 20278    | 20.121  | ug/l   | 85       |
| 89) 1,2,4-Trichlorobenzene    | 13.585 | 180  | 103336   | 20.488  | ug/l   | 99       |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 47261    | 21.330  | ug/l   | 97       |
| 91) Naphthalene               | 13.774 | 128  | 309924   | 20.261  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 98636    | 20.088  | ug/l   | 99       |

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

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Sample : VX0928WBS01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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