

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031221\  
 Data File : VX021174.D  
 Acq On : 12 Mar 2021 11:02  
 Operator : JC/MD  
 Sample : VSTDICCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICCC020

Manual Integrations  
 APPROVED

MMDadoda  
 3/15/2021 3:18:42 PM

Quant Time: Mar 12 11:51:07 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X031221W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 12 11:46:12 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Bromochloromethane        | 4.982          | 128  | 14459               | 30.00  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.829          | 114  | 77646               | 30.00  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.094         | 117  | 73312               | 30.00  | ug/l   | 0.00     |
|                              |                |      |                     |        |        |          |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 27) 1,2-Dichloroethane-d4    | 6.035          | 65   | 39380               | 36.61  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 122.03%# |        |        |          |
| 60) 4-Bromofluorobenzene     | 11.118         | 95   | 40830               | 32.89  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 109.63%  |        |        |          |
| 63) Toluene-d8               | 8.700          | 98   | 101201              | 30.27  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 100.90%  |        |        |          |
|                              |                |      |                     |        |        |          |
| Target Compounds             |                |      |                     |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.187          | 85   | 17613               | 21.66  | ug/l   | 100      |
| 3) Chloromethane             | 1.311          | 50   | 18515               | 21.33  | ug/l   | 99       |
| 4) Vinyl Chloride            | 1.393          | 62   | 18116               | 18.34  | ug/l   | 95       |
| 5) Bromomethane              | 1.628          | 94   | 11155               | 26.35  | ug/l   | 98       |
| 6) Chloroethane              | 1.711          | 64   | 11101               | 17.82  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 1.917          | 101  | 28814               | 21.69  | ug/l   | 96       |
| 8) Diethyl Ether             | 2.170          | 74   | 9721                | 17.17  | ug/l   | 75       |
| 9) 1,1,2-Trichlorotrifluo... | 2.370          | 101  | 14980               | 18.81  | ug/l   | 96       |
| 10) 1,1-Dichloroethene       | 2.358          | 96   | 14571               | 17.95  | ug/l   | 91       |
| 11) Methyl Iodide            | 2.493          | 142  | 18861               | 18.13  | ug/l   | 90       |
| 12) Methyl Acetate           | 2.746          | 43   | 26009               | 25.95  | ug/l # | 86       |
| 13) Acrolein                 | 2.275          | 56   | 14684               | 106.81 | ug/l   | 99       |
| 14) Acrylonitrile            | 3.111          | 53   | 47951               | 102.70 | ug/l   | 97       |
| 15) Acetone                  | 2.417          | 58   | 12354               | 92.34  | ug/l # | 54       |
| 16) Carbon Disulfide         | 2.552          | 76   | 42970               | 18.59  | ug/l   | 98       |
| 17) Allyl chloride           | 2.705          | 41   | 30911               | 22.62  | ug/l   | 86       |
| 18) Methylene Chloride       | 2.834          | 84   | 18131               | 19.39  | ug/l # | 85       |
| 19) trans-1,2-Dichloroethene | 3.146          | 96   | 16406               | 18.14  | ug/l   | 87       |
| 20) Diisopropyl ether        | 3.823          | 45   | 61669               | 22.35  | ug/l # | 90       |
| 21) 1,1-Dichloroethane       | 3.670          | 63   | 32922               | 20.62  | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 4.564          | 96   | 19118               | 18.41  | ug/l   | 87       |
| 23) tert-Butyl Alcohol       | 3.005          | 59   | 21246               | 100.60 | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 3.164          | 73   | 57111               | 19.61  | ug/l # | 83       |
| 25) Chloroform               | 5.176          | 83   | 34416               | 20.94  | ug/l   | 99       |
| 26) Cyclohexane              | 5.546          | 56   | 29058               | 20.23  | ug/l # | 89       |
| 29) 1,1-Dichloropropene      | 5.770          | 75   | 24242               | 20.28  | ug/l   | 96       |
| 30) 2-Butanone               | 4.629          | 43   | 68885               | 112.95 | ug/l   | 92       |
| 31) 2,2-Dichloropropane      | 4.552          | 77   | 27475               | 20.01  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 5.464          | 97   | 29535               | 21.59  | ug/l   | 94       |
| 33) Carbon Tetrachloride     | 5.752          | 117  | 26173               | 21.98  | ug/l   | 99       |
| 34) Benzene                  | 6.111          | 78   | 70436               | 19.72  | ug/l   | 96       |
| 35) Methacrylonitrile        | 5.005          | 41   | 15583               | 23.41  | ug/l   | 90       |
| 36) 1,2-Dichloroethane       | 6.158          | 62   | 31126               | 24.40  | ug/l # | 93       |
| 37) Trichloroethene          | 7.188          | 130  | 18284               | 19.13  | ug/l   | 90       |
| 38) Methylcyclohexane        | 7.441          | 83   | 27145               | 18.37  | ug/l   | 91       |
| 39) 1,2-Dichloropropane      | 7.488          | 63   | 19081               | 21.11  | ug/l   | 93       |
| 40) Dibromomethane           | 7.635          | 93   | 13410               | 21.51  | ug/l   | 90       |
| 41) Bromodichloromethane     | 7.876          | 83   | 28295               | 21.72  | ug/l   | 97       |
| 42) Vinyl Acetate            | 3.781          | 43   | 258736              | 113.42 | ug/l # | 92       |

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 ALS Vial : 4 Sample Multiplier: 1

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 ClientSampleId :  
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 QLast Update : Fri Mar 12 11:46:12 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 4.787  | 43   | 27199    | 23.11  | ug/l   | 98       |
| 44) Isopropyl Acetate         | 6.411  | 43   | 44732    | 22.62  | ug/l   | 91       |
| 45) 1,4-Dioxane               | 7.711  | 88   | 8899     | 403.47 | ug/l # | 88       |
| 46) Methyl methacrylate       | 7.747  | 41   | 23958    | 23.96  | ug/l   | 82       |
| 47) n-amyl Acetate            | 10.882 | 43   | 40398    | 24.29  | ug/l   | 92       |
| 48) t-1,3-Dichloropropene     | 9.023  | 75   | 28115    | 19.70  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene   | 8.412  | 75   | 30219    | 19.53  | ug/l # | 82       |
| 50) 1,1,2-Trichloroethane     | 9.194  | 97   | 17834    | 19.94  | ug/l   | 95       |
| 51) Ethyl methacrylate        | 9.159  | 69   | 28586m   | 20.18  | ug/l   |          |
| 52) 1,3-Dichloropropane       | 9.353  | 76   | 31448    | 20.61  | ug/l   | 100      |
| 53) Dibromochloromethane      | 9.565  | 129  | 20515    | 21.17  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 9.653  | 107  | 19012    | 20.24  | ug/l   | 96       |
| 55) 2-Chloroethyl vinyl ether | 8.288  | 63   | 76531    | 111.59 | ug/l   | 96       |
| 56) Bromoform                 | 10.841 | 173  | 14352    | 21.19  | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.617  | 43   | 144571   | 116.94 | ug/l # | 88       |
| 59) 2-Hexanone                | 9.470  | 43   | 108103   | 115.87 | ug/l   | 87       |
| 61) Tetrachloroethene         | 9.318  | 164  | 17439    | 19.80  | ug/l   | 93       |
| 62) Toluene                   | 8.764  | 91   | 77078    | 18.91  | ug/l   | 96       |
| 64) Chlorobenzene             | 10.123 | 112  | 47023    | 18.78  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 10.206 | 131  | 18073    | 19.48  | ug/l   | 100      |
| 66) Ethyl Benzene             | 10.235 | 91   | 87573    | 19.25  | ug/l   | 97       |
| 67) m/p-Xylenes               | 10.341 | 106  | 64294    | 38.19  | ug/l   | 94       |
| 68) o-Xylene                  | 10.682 | 106  | 31046    | 19.33  | ug/l   | 90       |
| 69) Styrene                   | 10.694 | 104  | 52101    | 18.72  | ug/l   | 92       |
| 70) Isopropylbenzene          | 11.000 | 105  | 83884    | 19.32  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.253 | 83   | 26548    | 19.50  | ug/l   | 96       |
| 72) 1,2,3-Trichloropropane    | 11.277 | 75   | 27937m   | 22.43  | ug/l   |          |
| 73) Bromobenzene              | 11.235 | 156  | 20176    | 19.76  | ug/l   | 90       |
| 74) n-propylbenzene           | 11.341 | 91   | 98915    | 19.85  | ug/l   | 98       |
| 75) 2-Chlorotoluene           | 11.406 | 91   | 60688    | 20.33  | ug/l   | 95       |
| 76) 1,3,5-Trimethylbenzene    | 11.488 | 105  | 71820    | 20.00  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 11.059 | 75   | 8484     | 16.86  | ug/l   | 86       |
| 78) 4-Chlorotoluene           | 11.494 | 91   | 70778    | 20.60  | ug/l   | 97       |
| 79) tert-butylbenzene         | 11.753 | 119  | 66534    | 19.39  | ug/l   | 91       |
| 80) 1,2,4-Trimethylbenzene    | 11.788 | 105  | 71696    | 19.74  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 11.930 | 105  | 80580    | 19.50  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 12.047 | 119  | 71912    | 19.22  | ug/l   | 95       |
| 83) 1,3-Dichlorobenzene       | 12.006 | 146  | 36319    | 19.55  | ug/l   | 97       |
| 84) 1,4-Dichlorobenzene       | 12.083 | 146  | 36442    | 19.93  | ug/l   | 98       |
| 85) n-Butylbenzene            | 12.371 | 91   | 65656    | 19.39  | ug/l   | 97       |
| 86) Hexachloroethane          | 12.577 | 117  | 13289    | 18.90  | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene       | 12.377 | 146  | 35267    | 20.06  | ug/l   | 96       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.983 | 75   | 6599     | 20.88  | ug/l # | 80       |
| 89) 1,2,4-Trichlorobenzene    | 13.630 | 180  | 21792    | 18.84  | ug/l   | 95       |
| 90) Hexachlorobutadiene       | 13.765 | 225  | 8809     | 18.76  | ug/l   | 96       |
| 91) Naphthalene               | 13.818 | 128  | 68648    | 17.31  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 14.000 | 180  | 20999    | 18.47  | ug/l   | 97       |

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

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 ALS Vial : 4 Sample Multiplier: 1

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