

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110421\  
 Data File : VX025062.D  
 Acq On : 03 Nov 2021 20:32  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX110421

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

Quant Time: Nov 03 23:55:46 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X110421W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Nov 03 23:52:56 2021  
 Response via : Initial Calibration

11/04/2021  
 Supervised By :Mahesh  
 Dadoda

| Compound                | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|--------|------|----------|--------|-------|----------|
| -----                   |        |      |          |        |       |          |
| Internal Standards      |        |      |          |        |       |          |
| 1) Bromochloromethane   | 4.897  | 128  | 19634m   | 30.000 | ug/l  | -0.01    |
| 28) 1,4-Difluorobenzene | 6.769  | 114  | 103815   | 30.000 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.055 | 117  | 93053    | 30.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 55187    | 29.451   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =    | 98.167%  |
| 60) 4-Bromofluorobenzene    | 11.085 | 95    | 52362    | 30.841   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =    | 102.800% |
| 63) Toluene-d8              | 8.653  | 98    | 133130   | 30.977   | ug/l | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =    | 103.267% |

| Target Compounds             |       |     |        |         |        | Qvalue |
|------------------------------|-------|-----|--------|---------|--------|--------|
| 2) Dichlorodifluoromethane   | 1.166 | 85  | 33019  | 21.962  | ug/l   | 99     |
| 3) Chloromethane             | 1.288 | 50  | 16696  | 21.137  | ug/l   | 98     |
| 4) Vinyl Chloride            | 1.374 | 62  | 19233  | 21.232  | ug/l   | 95     |
| 5) Bromomethane              | 1.611 | 94  | 15236  | 20.487  | ug/l   | 99     |
| 6) Chloroethane              | 1.691 | 64  | 11490  | 22.497  | ug/l   | 100    |
| 7) Trichlorofluoromethane    | 1.892 | 101 | 47916  | 21.918  | ug/l   | 92     |
| 8) Diethyl Ether             | 2.136 | 74  | 11197  | 21.613  | ug/l   | 74     |
| 9) 1,1,2-Trichlorotrifluo... | 2.331 | 101 | 23932  | 20.986  | ug/l   | 97     |
| 10) 1,1-Dichloroethene       | 2.319 | 96  | 19583  | 20.252  | ug/l   | 95     |
| 11) Methyl Iodide            | 2.453 | 142 | 22548  | 20.850  | ug/l   | 96     |
| 12) Methyl Acetate           | 2.709 | 43  | 42002  | 20.673  | ug/l   | 95     |
| 13) Acrolein                 | 2.239 | 56  | 9342   | 100.951 | ug/l   | 97     |
| 14) Acrylonitrile            | 3.069 | 53  | 60509  | 105.735 | ug/l   | 93     |
| 15) Acetone                  | 2.386 | 58  | 17483  | 99.989  | ug/l   | 97     |
| 16) Carbon Disulfide         | 2.514 | 76  | 51941  | 21.043  | ug/l   | 98     |
| 17) Allyl chloride           | 2.666 | 41  | 32423  | 21.019  | ug/l   | 98     |
| 18) Methylene Chloride       | 2.794 | 84  | 23212  | 20.507  | ug/l   | 96     |
| 19) trans-1,2-Dichloroethene | 3.099 | 96  | 22997  | 21.633  | ug/l   | 98     |
| 20) Diisopropyl ether        | 3.764 | 45  | 72126  | 21.613  | ug/l   | 91     |
| 21) 1,1-Dichloroethane       | 3.611 | 63  | 47831  | 21.599  | ug/l   | 98     |
| 22) cis-1,2-Dichloroethene   | 4.489 | 96  | 26811  | 21.255  | ug/l   | 93     |
| 23) tert-Butyl Alcohol       | 2.983 | 59  | 32734  | 94.061  | ug/l # | 100    |
| 24) Methyl tert-Butyl Ether  | 3.117 | 73  | 86800  | 21.237  | ug/l   | 92     |
| 25) Chloroform               | 5.105 | 83  | 53587  | 20.870  | ug/l   | 93     |
| 26) Cyclohexane              | 5.471 | 56  | 37268  | 21.096  | ug/l # | 98     |
| 29) 1,1-Dichloropropene      | 5.702 | 75  | 36223  | 21.699  | ug/l   | 94     |
| 30) 2-Butanone               | 4.568 | 43  | 89390  | 106.169 | ug/l   | 98     |
| 31) 2,2-Dichloropropane      | 4.477 | 77  | 45491  | 21.454  | ug/l # | 72     |
| 32) 1,1,1-Trichloroethane    | 5.391 | 97  | 51476  | 21.436  | ug/l   | 94     |
| 33) Carbon Tetrachloride     | 5.684 | 117 | 45832  | 21.748  | ug/l   | 99     |
| 34) Benzene                  | 6.044 | 78  | 92652  | 21.761  | ug/l   | 96     |
| 35) Methacrylonitrile        | 4.928 | 41  | 17657  | 21.265  | ug/l   | 90     |
| 36) 1,2-Dichloroethane       | 6.098 | 62  | 43678  | 21.171  | ug/l # | 94     |
| 37) Trichloroethene          | 7.135 | 130 | 25438  | 21.376  | ug/l   | 92     |
| 38) Methylcyclohexane        | 7.385 | 83  | 40172  | 22.409  | ug/l   | 98     |
| 39) 1,2-Dichloropropane      | 7.440 | 63  | 24304  | 20.917  | ug/l   | 99     |
| 40) Dibromomethane           | 7.580 | 93  | 18925  | 20.907  | ug/l   | 94     |
| 41) Bromodichloromethane     | 7.824 | 83  | 39263  | 20.429  | ug/l   | 99     |
| 42) Vinyl Acetate            | 3.727 | 43  | 265022 | 105.204 | ug/l   | 97     |

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 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
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Manual Integrations  
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Reviewed By :John  
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Quant Time: Nov 03 23:55:46 2021  
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11/04/2021  
 Supervised By :Mahesh  
 Dadoda

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|---------|-------|----------|-----|
| 43) Ethyl Acetate             | 4.715  | 43   | 33749    | 20.913  | ug/l  | #        | 86  |
| 44) Isopropyl Acetate         | 6.342  | 43   | 54993    | 21.786  | ug/l  |          | 97  |
| 45) 1,4-Dioxane               | 7.684  | 88   | 12060    | 449.905 | ug/l  |          | 93  |
| 46) Methyl methacrylate       | 7.696  | 41   | 24943    | 20.212  | ug/l  |          | 89  |
| 47) n-amyl Acetate            | 10.848 | 43   | 41643    | 20.457  | ug/l  |          | 90  |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 41385    | 19.990  | ug/l  |          | 99  |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 44301    | 21.436  | ug/l  | #        | 83  |
| 50) 1,1,2-Trichloroethane     | 9.159  | 97   | 25650    | 20.927  | ug/l  |          | 99  |
| 51) Ethyl methacrylate        | 9.122  | 69   | 41828    | 21.174  | ug/l  |          | 81  |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 43667    | 20.850  | ug/l  |          | 98  |
| 53) Dibromochloromethane      | 9.525  | 129  | 29710    | 21.232  | ug/l  |          | 99  |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 28529    | 20.838  | ug/l  |          | 99  |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 91402    | 103.976 | ug/l  |          | 99  |
| 56) Bromoform                 | 10.805 | 173  | 20498    | 22.063  | ug/l  | #        | 99  |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 173580   | 110.655 | ug/l  |          | 93  |
| 59) 2-Hexanone                | 9.433  | 43   | 133104   | 110.431 | ug/l  |          | 92  |
| 61) Tetrachloroethene         | 9.275  | 164  | 24356    | 22.337  | ug/l  |          | 93  |
| 62) Toluene                   | 8.720  | 91   | 103642   | 21.774  | ug/l  |          | 98  |
| 64) Chlorobenzene             | 10.079 | 112  | 61537    | 21.404  | ug/l  |          | 100 |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 27767    | 21.620  | ug/l  |          | 93  |
| 66) Ethyl Benzene             | 10.195 | 91   | 122816   | 21.822  | ug/l  |          | 95  |
| 67) m/p-Xylenes               | 10.305 | 106  | 86517    | 44.706  | ug/l  |          | 84  |
| 68) o-Xylene                  | 10.646 | 106  | 43459    | 22.996  | ug/l  |          | 89  |
| 69) Styrene                   | 10.659 | 104  | 71509    | 22.274  | ug/l  |          | 94  |
| 70) Isopropylbenzene          | 10.963 | 105  | 121701   | 22.164  | ug/l  |          | 96  |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 39165    | 21.608  | ug/l  |          | 97  |
| 72) 1,2,3-Trichloropropane    | 11.244 | 75   | 38167m   | 21.741  | ug/l  |          |     |
| 73) Bromobenzene              | 11.201 | 156  | 26302    | 21.437  | ug/l  |          | 80  |
| 74) n-propylbenzene           | 11.305 | 91   | 141003   | 21.653  | ug/l  |          | 95  |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 88774    | 21.754  | ug/l  |          | 90  |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 104987   | 21.924  | ug/l  |          | 90  |
| 77) t-1,4-Dichloro-2-butene   | 11.024 | 75   | 12248    | 20.721  | ug/l  |          | 93  |
| 78) 4-Chlorotoluene           | 11.457 | 91   | 100531   | 21.584  | ug/l  |          | 94  |
| 79) tert-butylbenzene         | 11.719 | 119  | 98239    | 21.774  | ug/l  |          | 93  |
| 80) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 104283   | 22.145  | ug/l  |          | 92  |
| 81) sec-Butylbenzene          | 11.896 | 105  | 124779   | 22.229  | ug/l  |          | 98  |
| 82) p-Isopropyltoluene        | 12.012 | 119  | 102600   | 22.037  | ug/l  |          | 97  |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 50155    | 21.983  | ug/l  |          | 97  |
| 84) 1,4-Dichlorobenzene       | 12.043 | 146  | 49627    | 21.842  | ug/l  |          | 97  |
| 85) n-Butylbenzene            | 12.335 | 91   | 91043    | 21.441  | ug/l  |          | 98  |
| 86) Hexachloroethane          | 12.542 | 117  | 17904    | 21.570  | ug/l  |          | 88  |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 48726    | 21.691  | ug/l  |          | 96  |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 10156    | 20.485  | ug/l  |          | 88  |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 29859    | 21.942  | ug/l  |          | 98  |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 15152    | 22.038  | ug/l  |          | 97  |
| 91) Naphthalene               | 13.780 | 128  | 99431    | 21.381  | ug/l  |          | 100 |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 30656    | 22.087  | ug/l  |          | 96  |

11/10/2021

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

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 Acq On : 03 Nov 2021 20:32  
 Operator : JC/MD  
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 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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