

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX120623\  
 Data File : VX039085.D  
 Acq On : 06 Dec 2023 10:12  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Dec 07 03:58:37 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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 115   | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 21.260  | -6.3   | 121   | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 22.013  | -10.1  | 129   | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 21.231  | -6.2   | 123   | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 25.117  | -25.6# | 129   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 21.759  | -8.8   | 121   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 21.476  | -7.4   | 123   | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 21.801  | -9.0   | 126   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 23.860  | -19.3  | 140   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 22.976  | -14.9  | 134   | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 17.944  | 10.3   | 114   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 24.369  | -21.8  | 143   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 96.224  | 3.8    | 116   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 117.707 | -17.7  | 138   | 0.00     |
| 15 M | Acetone                     | 100.000 | 114.431 | -14.4  | 117   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 21.381  | -6.9   | 126   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 23.379  | -16.9  | 136   | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 22.577  | -12.9  | 136   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 22.726  | -13.6  | 135   | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 23.980  | -19.9  | 140   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 23.118  | -15.6  | 136   | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 22.428  | -12.1  | 131   | -0.01    |
| 23 M | tert-Butyl Alcohol          | 100.000 | 100.551 | -0.6   | 122   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 23.080  | -15.4  | 135   | 0.00     |
| 25 M | Chloroform                  | 20.000  | 22.822  | -14.1  | 134   | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 23.176  | -15.9  | 136   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.378  | -1.3   | 114   | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 118   | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 21.468  | -7.3   | 133   | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 108.898 | -8.9   | 130   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 21.670  | -8.4   | 132   | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 21.169  | -5.8   | 130   | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 20.977  | -4.9   | 128   | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.817  | -9.1   | 134   | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 21.580  | -7.9   | 136   | -0.01    |
| 36 M | 1,2-Dichloroethane          | 20.000  | 21.188  | -5.9   | 129   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 21.362  | -6.8   | 130   | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 21.894  | -9.5   | 133   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.676  | -13.4  | 143   | 0.00     |
| 40   | Dibromomethane              | 20.000  | 21.026  | -5.1   | 130   | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 21.664  | -8.3   | 133   | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 110.171 | -10.2  | 134   | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 21.667  | -8.3   | 132   | -0.01    |
| 44   | Isopropyl Acetate           | 20.000  | 22.164  | -10.8  | 139   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 382.840 | 4.3    | 124   | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 22.175  | -10.9  | 138   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 22.001  | -10.0  | 142   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 21.160  | -5.8   | 130   | 0.00     |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

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 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 21.901  | -9.5  | 135   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.022  | -10.1 | 135   | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 21.963  | -9.8  | 140   | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 22.054  | -10.3 | 135   | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 20.803  | -4.0  | 127   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.142  | -5.7  | 132   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 94.141  | 5.9   | 122   | 0.00     |
| 56 M | Bromoform                   | 20.000  | 20.092  | -0.5  | 127   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 117   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 114.340 | -14.3 | 137   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 113.807 | -13.8 | 136   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.357  | -1.2  | 122   | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.606  | -8.0  | 127   | 0.00     |
| 62 M | Toluene                     | 20.000  | 22.188  | -10.9 | 134   | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.763  | 0.8   | 118   | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 21.619  | -8.1  | 132   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.727  | -8.6  | 130   | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 22.119  | -10.6 | 133   | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 43.772  | -9.4  | 133   | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 21.746  | -8.7  | 133   | 0.00     |
| 69 M | Styrene                     | 20.000  | 21.501  | -7.5  | 132   | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 22.078  | -10.4 | 133   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 22.400  | -12.0 | 137   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 22.876  | -14.4 | 137   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 21.115  | -5.6  | 131   | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 22.340  | -11.7 | 135   | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 22.037  | -10.2 | 134   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 22.007  | -10.0 | 133   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 21.150  | -5.7  | 136   | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 22.099  | -10.5 | 134   | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 21.885  | -9.4  | 132   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 22.035  | -10.2 | 134   | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 22.205  | -11.0 | 136   | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 21.937  | -9.7  | 134   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 21.672  | -8.4  | 134   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 21.299  | -6.5  | 131   | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 22.279  | -11.4 | 139   | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 21.551  | -7.8  | 133   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 21.334  | -6.7  | 129   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 21.032  | -5.2  | 128   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 21.596  | -8.0  | 132   | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 22.813  | -14.1 | 138   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 20.984  | -4.9  | 130   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 21.780  | -8.9  | 132   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0