

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX053024\  
 Data File : VX041691.D  
 Acq On : 30 May 2024 16:40  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 31 05:30:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 16 05:13:13 2024  
 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                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.569 | 1.556 | 0.8    | 96    | 0.00     |
| 3 M  | Chloromethane               | 1.718 | 1.608 | 6.4    | 84    | 0.00     |
| 4 M  | Vinyl Chloride              | 1.809 | 1.756 | 2.9    | 89    | 0.00     |
| 5 M  | Bromomethane                | 1.151 | 1.150 | 0.1    | 95    | 0.00     |
| 6 M  | Chloroethane                | 0.915 | 1.429 | -56.2# | 145   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 2.746 | 3.066 | -11.7  | 101   | 0.00     |
| 8 T  | Diethyl Ether               | 1.025 | 1.161 | -13.3  | 107   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.592 | 1.780 | -11.8  | 94    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.535 | 1.607 | -4.7   | 88    | 0.00     |
| 11   | Methyl Iodide               | 1.828 | 2.193 | -20.0  | 109   | 0.00     |
| 12   | Methyl Acetate              | 2.312 | 2.631 | -13.8  | 102   | 0.00     |
| 13 M | Acrolein                    | 0.281 | 0.179 | 36.3#  | 56    | 0.00     |
| 14 M | Acrylonitrile               | 1.016 | 1.043 | -2.7   | 95    | 0.00     |
| 15 M | Acetone                     | 0.272 | 0.344 | -26.5# | 107   | 0.00     |
| 16 M | Carbon Disulfide            | 3.465 | 3.244 | 6.4    | 89    | 0.00     |
| 17   | Allyl chloride              | 2.724 | 2.808 | -3.1   | 92    | 0.00     |
| 18 M | Methylene Chloride          | 1.826 | 1.917 | -5.0   | 92    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.760 | 1.674 | 4.9    | 87    | 0.00     |
| 20 T | Diisopropyl ether           | 5.723 | 5.843 | -2.1   | 93    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.212 | 3.206 | 0.2    | 92    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.139 | 2.124 | 0.7    | 93    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.431 | 0.462 | -7.2   | 99    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 5.730 | 5.757 | -0.5   | 93    | 0.00     |
| 25 M | Chloroform                  | 3.422 | 3.510 | -2.6   | 94    | 0.00     |
| 26   | Cyclohexane                 | 2.678 | 2.560 | 4.4    | 88    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.362 | 2.385 | -1.0   | 89    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 89    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.397 | 0.395 | 0.5    | 92    | 0.00     |
| 30 M | 2-Butanone                  | 0.263 | 0.271 | -3.0   | 94    | -0.01    |
| 31   | 2,2-Dichloropropane         | 0.466 | 0.470 | -0.9   | 92    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.532 | 0.536 | -0.8   | 93    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.456 | 0.460 | -0.9   | 94    | 0.00     |
| 34 M | Benzene                     | 1.253 | 1.262 | -0.7   | 91    | 0.00     |
| 35   | Methacrylonitrile           | 0.266 | 0.274 | -3.0   | 94    | -0.02    |
| 36 M | 1,2-Dichloroethane          | 0.468 | 0.481 | -2.8   | 93    | -0.01    |
| 37 M | Trichloroethene             | 0.349 | 0.338 | 3.2    | 89    | 0.00     |
| 38   | Methylcyclohexane           | 0.504 | 0.489 | 3.0    | 89    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.296 | 0.309 | -4.4   | 93    | -0.01    |
| 40   | Dibromomethane              | 0.233 | 0.232 | 0.4    | 93    | 0.00     |
| 41 M | Bromodichloromethane        | 0.438 | 0.450 | -2.7   | 97    | 0.00     |
| 42 M | Vinyl Acetate               | 0.914 | 0.915 | -0.1   | 92    | 0.00     |
| 43   | Ethyl Acetate               | 0.508 | 0.477 | 6.1    | 86    | 0.00     |
| 44   | Isopropyl Acetate           | 0.768 | 0.766 | 0.3    | 93    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.009 | 0.007 | 22.2   | 69    | -0.01    |
| 46   | Methyl methacrylate         | 0.382 | 0.387 | -1.3   | 94    | 0.00     |
| 47   | n-amyl Acetate              | 0.697 | 0.690 | 1.0    | 93    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.440 | 0.430 | 2.3    | 95    | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 31 05:30:31 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X051524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 16 05:13:13 2024  
 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                    | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.476 | 0.478 | -0.4 | 96    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.324 | 0.342 | -5.6 | 97    | 0.00     |
| 51   | Ethyl methacrylate          | 0.522 | 0.504 | 3.4  | 91    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.536 | 0.554 | -3.4 | 94    | 0.00     |
| 53 M | Dibromochloromethane        | 0.369 | 0.378 | -2.4 | 99    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.344 | 0.354 | -2.9 | 94    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.255 | 0.244 | 4.3  | 86    | 0.00     |
| 56 M | Bromoform                   | 0.296 | 0.298 | -0.7 | 102   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 89    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.548 | 0.564 | -2.9 | 92    | 0.00     |
| 59 M | 2-Hexanone                  | 0.437 | 0.447 | -2.3 | 94    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.468 | 0.487 | -4.1 | 91    | 0.00     |
| 61 M | Tetrachloroethene           | 0.367 | 0.358 | 2.5  | 89    | 0.00     |
| 62 M | Toluene                     | 1.493 | 1.507 | -0.9 | 91    | 0.00     |
| 63 S | Toluene-d8                  | 1.286 | 1.256 | 2.3  | 86    | 0.00     |
| 64 M | Chlorobenzene               | 1.014 | 1.038 | -2.4 | 94    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.359 | 0.373 | -3.9 | 97    | 0.00     |
| 66 M | Ethyl Benzene               | 1.658 | 1.690 | -1.9 | 93    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.648 | 0.675 | -4.2 | 92    | 0.00     |
| 68 M | o-Xylene                    | 0.652 | 0.661 | -1.4 | 93    | 0.00     |
| 69 M | Styrene                     | 1.094 | 1.119 | -2.3 | 95    | 0.00     |
| 70   | Isopropylbenzene            | 1.649 | 1.734 | -5.2 | 93    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.566 | 0.598 | -5.7 | 96    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.511 | 0.498 | 2.5  | 88    | 0.00     |
| 73   | Bromobenzene                | 0.484 | 0.489 | -1.0 | 94    | 0.00     |
| 74   | n-propylbenzene             | 1.859 | 1.952 | -5.0 | 96    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.167 | 1.216 | -4.2 | 94    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.407 | 1.464 | -4.1 | 95    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.161 | 0.159 | 1.2  | 98    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.330 | 1.394 | -4.8 | 95    | 0.00     |
| 79   | tert-butylbenzene           | 1.498 | 1.554 | -3.7 | 95    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.411 | 1.472 | -4.3 | 94    | 0.00     |
| 81   | sec-Butylbenzene            | 1.750 | 1.863 | -6.5 | 98    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.532 | 1.599 | -4.4 | 96    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.869 | 0.897 | -3.2 | 96    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.878 | 0.901 | -2.6 | 96    | 0.00     |
| 85   | n-Butylbenzene              | 1.233 | 1.292 | -4.8 | 101   | 0.00     |
| 86 T | Hexachloroethane            | 0.258 | 0.267 | -3.5 | 102   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.887 | 0.908 | -2.4 | 95    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.124 | 0.124 | 0.0  | 95    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.596 | 0.617 | -3.5 | 99    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.291 | 0.301 | -3.4 | 96    | 0.00     |
| 91 M | Naphthalene                 | 1.781 | 1.789 | -0.4 | 94    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.609 | 0.641 | -5.3 | 97    | 0.00     |

(#) = Out of Range

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