

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030422\  
 Data File : VX027315.D  
 Acq On : 04 Mar 2022 20:35  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 05 01:49:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030322W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 04 01:00:22 2022  
 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  | 90    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.920 | 1.767 | 8.0  | 79    | 0.00     |
| 3 M  | Chloromethane               | 1.544 | 1.322 | 14.4 | 74    | 0.00     |
| 4 M  | Vinyl Chloride              | 1.479 | 1.302 | 12.0 | 77    | 0.00     |
| 5 M  | Bromomethane                | 0.795 | 0.795 | 0.0  | 82    | 0.00     |
| 6 M  | Chloroethane                | 0.874 | 0.826 | 5.5  | 84    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 2.530 | 2.472 | 2.3  | 87    | 0.00     |
| 8 T  | Diethyl Ether               | 0.806 | 0.738 | 8.4  | 84    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.768 | 1.585 | 10.4 | 79    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.718 | 1.538 | 10.5 | 80    | 0.00     |
| 11   | Methyl Iodide               | 2.002 | 1.777 | 11.2 | 91    | 0.00     |
| 12   | Methyl Acetate              | 2.235 | 2.004 | 10.3 | 80    | 0.00     |
| 13 M | Acrolein                    | 0.356 | 0.374 | -5.1 | 98    | 0.00     |
| 14 M | Acrylonitrile               | 1.008 | 0.910 | 9.7  | 80    | 0.00     |
| 15 M | Acetone                     | 0.289 | 0.248 | 14.2 | 73    | 0.00     |
| 16 M | Carbon Disulfide            | 4.562 | 3.990 | 12.5 | 79    | 0.00     |
| 17   | Allyl chloride              | 2.855 | 2.453 | 14.1 | 77    | 0.00     |
| 18 M | Methylene Chloride          | 1.940 | 1.664 | 14.2 | 76    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.858 | 1.666 | 10.3 | 81    | 0.00     |
| 20 T | Diisopropyl ether           | 5.489 | 4.929 | 10.2 | 80    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.211 | 2.918 | 9.1  | 81    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.134 | 1.938 | 9.2  | 81    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.399 | 0.360 | 9.8  | 84    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 5.702 | 5.205 | 8.7  | 81    | 0.00     |
| 25 M | Chloroform                  | 3.422 | 3.157 | 7.7  | 82    | 0.00     |
| 26   | Cyclohexane                 | 2.891 | 2.546 | 11.9 | 79    | -0.01    |
| 27 s | 1,2-Dichloroethane-d4       | 2.077 | 2.140 | -3.0 | 93    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0  | 89    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.459 | 0.424 | 7.6  | 83    | 0.00     |
| 30 M | 2-Butanone                  | 0.259 | 0.231 | 10.8 | 78    | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.461 | 0.383 | 16.9 | 76    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.557 | 0.512 | 8.1  | 83    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.508 | 0.476 | 6.3  | 85    | 0.00     |
| 34 M | Benzene                     | 1.340 | 1.236 | 7.8  | 81    | 0.00     |
| 35   | Methacrylonitrile           | 0.271 | 0.233 | 14.0 | 75    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.488 | 0.464 | 4.9  | 83    | 0.00     |
| 37 M | Trichloroethene             | 0.405 | 0.368 | 9.1  | 83    | 0.00     |
| 38   | Methylcyclohexane           | 0.568 | 0.515 | 9.3  | 82    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.329 | 0.300 | 8.8  | 81    | 0.00     |
| 40   | Dibromomethane              | 0.246 | 0.231 | 6.1  | 85    | 0.00     |
| 41 M | Bromodichloromethane        | 0.474 | 0.444 | 6.3  | 85    | 0.00     |
| 42 M | Vinyl Acetate               | 0.868 | 0.778 | 10.4 | 79    | 0.00     |
| 43   | Ethyl Acetate               | 0.491 | 0.426 | 13.2 | 79    | 0.00     |
| 44   | Isopropyl Acetate           | 0.757 | 0.662 | 12.5 | 79    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.009 | 0.008 | 11.1 | 82    | 0.00     |
| 46   | Methyl methacrylate         | 0.376 | 0.342 | 9.0  | 81    | 0.00     |
| 47   | n-amyl Acetate              | 0.624 | 0.547 | 12.3 | 81    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.490 | 0.433 | 11.6 | 83    | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 05 01:49:27 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030322W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Mar 04 01:00:22 2022  
 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     | 0.538 | 0.475 | 11.7 | 80    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.350 | 0.328 | 6.3  | 85    | 0.00     |
| 51   | Ethyl methacrylate          | 0.542 | 0.486 | 10.3 | 83    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.584 | 0.537 | 8.0  | 83    | 0.00     |
| 53 M | Dibromochloromethane        | 0.382 | 0.349 | 8.6  | 85    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.379 | 0.348 | 8.2  | 84    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.263 | 0.241 | 8.4  | 83    | 0.00     |
| 56 M | Bromoform                   | 0.279 | 0.249 | 10.8 | 88    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.543 | 0.512 | 5.7  | 82    | 0.00     |
| 59 M | 2-Hexanone                  | 0.415 | 0.381 | 8.2  | 81    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.486 | 0.487 | -0.2 | 92    | 0.00     |
| 61 M | Tetrachloroethene           | 0.438 | 0.410 | 6.4  | 82    | 0.00     |
| 62 M | Toluene                     | 1.634 | 1.526 | 6.6  | 83    | 0.00     |
| 63 S | Toluene-d8                  | 1.311 | 1.310 | 0.1  | 84    | 0.00     |
| 64 M | Chlorobenzene               | 1.047 | 0.954 | 8.9  | 82    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.397 | 0.375 | 5.5  | 87    | 0.00     |
| 66 M | Ethyl Benzene               | 1.842 | 1.704 | 7.5  | 82    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.721 | 0.666 | 7.6  | 82    | 0.00     |
| 68 M | o-Xylene                    | 0.705 | 0.654 | 7.2  | 82    | 0.00     |
| 69 M | Styrene                     | 1.172 | 1.080 | 7.8  | 82    | 0.00     |
| 70   | Isopropylbenzene            | 1.855 | 1.726 | 7.0  | 82    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.542 | 0.555 | -2.4 | 91    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.526 | 0.486 | 7.6  | 82    | 0.00     |
| 73   | Bromobenzene                | 0.461 | 0.426 | 7.6  | 82    | 0.00     |
| 74   | n-propylbenzene             | 2.114 | 1.959 | 7.3  | 84    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.280 | 1.185 | 7.4  | 83    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.558 | 1.460 | 6.3  | 83    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.156 | 0.130 | 16.7 | 82    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.457 | 1.336 | 8.3  | 82    | 0.00     |
| 79   | tert-butylbenzene           | 1.515 | 1.413 | 6.7  | 83    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.552 | 1.452 | 6.4  | 84    | 0.00     |
| 81   | sec-Butylbenzene            | 1.927 | 1.722 | 10.6 | 81    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.649 | 1.504 | 8.8  | 81    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.864 | 0.793 | 8.2  | 84    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.862 | 0.812 | 5.8  | 87    | 0.00     |
| 85   | n-Butylbenzene              | 1.345 | 1.171 | 12.9 | 81    | 0.00     |
| 86 T | Hexachloroethane            | 0.256 | 0.240 | 6.3  | 90    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.835 | 0.792 | 5.1  | 84    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.128 | 0.114 | 10.9 | 83    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.549 | 0.481 | 12.4 | 82    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.230 | 0.207 | 10.0 | 83    | 0.00     |
| 91 M | Naphthalene                 | 1.828 | 1.665 | 8.9  | 83    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.550 | 0.500 | 9.1  | 85    | 0.00     |

(#) = Out of Range

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