

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072623\  
 Data File : VL040567.D  
 Acq On : 27 Jul 2023 9:31  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Jul 27 10:08:21 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL071023AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Mon Jul 10 16:32:00 2023  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|-----------------------------|-------|-------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0    | 95    | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 2.000 | 1.868 | 6.6    | 98    | -0.03    |
| 3    | Chlorodifluoromethane       | 1.585 | 1.652 | -4.2   | 107   | -0.03    |
| 4    | Chloromethane               | 0.628 | 0.658 | -4.8   | 105   | -0.03    |
| 5 T  | Vinyl Chloride              | 0.659 | 0.718 | -9.0   | 113   | -0.02    |
| 6 T  | Bromomethane                | 0.278 | 0.311 | -11.9  | 116   | -0.02    |
| 7    | Chloroethane                | 0.231 | 0.257 | -11.3  | 113   | -0.02    |
| 8 T  | Dichlorotetrafluoroethane   | 1.646 | 1.768 | -7.4   | 111   | -0.03    |
| 9 T  | Propene                     | 0.543 | 0.541 | 0.4    | 101   | -0.03    |
| 10 T | Heptane                     | 1.198 | 1.337 | -11.6  | 103   | -0.02    |
| 11 T | Trichlorofluoromethane      | 1.614 | 1.792 | -11.0  | 117   | -0.02    |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.137 | 1.277 | -12.3  | 117   | -0.02    |
| 13   | Ethanol                     | 0.118 | 0.128 | -8.5   | 123   | -0.02    |
| 14 T | Bromoethene                 | 0.489 | 0.554 | -13.3  | 114   | -0.02    |
| 15 T | Acetone                     | 1.151 | 1.250 | -8.6   | 115   | -0.02    |
| 16 T | 1,3-Butadiene               | 0.581 | 0.632 | -8.8   | 105   | -0.02    |
| 17   | tert-Butyl alcohol          | 1.191 | 1.473 | -23.7  | 121   | -0.02    |
| 18 T | 1,1-Dichloroethene          | 0.523 | 0.599 | -14.5  | 117   | -0.02    |
| 19 T | Isopropyl Alcohol           | 0.661 | 0.822 | -24.4  | 119   | -0.02    |
| 20 T | Methylene Chloride          | 0.490 | 0.510 | -4.1   | 119   | -0.02    |
| 21 T | Allyl Chloride              | 0.657 | 0.735 | -11.9  | 111   | -0.02    |
| 22 T | trans-1,2-Dichloroethene    | 0.516 | 0.592 | -14.7  | 111   | -0.02    |
| 23 T | Vinyl Acetate               | 1.097 | 1.203 | -9.7   | 101   | -0.02    |
| 24 T | 1,1-Dichloroethane          | 1.113 | 1.221 | -9.7   | 113   | -0.02    |
| 25 T | Ethyl Acetate               | 2.191 | 2.352 | -7.3   | 104   | -0.02    |
| 26 T | Hexane                      | 1.018 | 1.071 | -5.2   | 104   | -0.02    |
| 27 T | Carbon Disulfide            | 1.198 | 1.458 | -21.7  | 111   | -0.02    |
| 28 T | Methyl tert-Butyl Ether     | 0.820 | 0.896 | -9.3   | 107   | -0.02    |
| 29 T | Chloroform                  | 1.689 | 1.820 | -7.8   | 109   | -0.02    |
| 30 T | Cyclohexane                 | 0.847 | 0.925 | -9.2   | 105   | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.006 | 1.120 | -11.3  | 105   | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 1.652 | 1.806 | -9.3   | 109   | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0    | 91    | -0.02    |
| 34 T | 2-Butanone                  | 0.494 | 0.554 | -12.1  | 103   | -0.02    |
| 35 T | Carbon Tetrachloride        | 0.602 | 0.717 | -19.1  | 109   | -0.02    |
| 36 T | Benzene                     | 0.805 | 0.888 | -10.3  | 103   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.473 | 0.535 | -13.1  | 112   | -0.02    |
| 38 T | Trichloroethene             | 0.304 | 0.358 | -17.8  | 105   | -0.02    |
| 39 T | 1,2-Dichloropropane         | 0.310 | 0.336 | -8.4   | 101   | -0.02    |
| 40 T | 1,4-Dioxane                 | 0.097 | 0.118 | -21.6  | 114   | -0.02    |
| 41 T | Tetrahydrofuran             | 0.288 | 0.330 | -14.6  | 103   | -0.02    |
| 42 T | Bromodichloromethane        | 0.658 | 0.768 | -16.7  | 109   | -0.02    |
| 43   | Methyl Methacrylate         | 0.301 | 0.357 | -18.6  | 101   | -0.02    |
| 44 T | 2,2,4-Trimethylpentane      | 1.295 | 1.421 | -9.7   | 102   | -0.02    |
| 45 T | t-1,3-Dichloropropene       | 0.193 | 0.262 | -35.8# | 106   | -0.02    |
| 46 T | cis-1,3-Dichloropropene     | 0.248 | 0.315 | -27.0  | 104   | -0.02    |
| 47 T | 1,1,2-Trichloroethane       | 0.342 | 0.375 | -9.6   | 104   | -0.02    |
| 48 T | Dibromochloromethane        | 0.528 | 0.633 | -19.9  | 104   | -0.02    |

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Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.419 | 0.518 | -23.6 | 103   | -0.02    |
| 50 T | 4-Methyl-2-Pentanone      | 0.718 | 0.852 | -18.7 | 105   | -0.02    |
| 51 T | 2-Hexanone                | 0.508 | 0.629 | -23.8 | 101   | -0.02    |
| 52 T | Tetrachloroethene         | 0.261 | 0.311 | -19.2 | 100   | -0.01    |
| 53 T | Toluene                   | 0.874 | 1.016 | -16.2 | 101   | -0.01    |
| 54 T | 1,2-Dibromoethane         | 0.425 | 0.511 | -20.2 | 103   | -0.02    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 96    | -0.01    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.448 | 0.462 | -3.1  | 105   | -0.01    |
| 57 T | Chlorobenzene             | 0.780 | 0.788 | -1.0  | 102   | 0.00     |
| 58 T | Ethyl Benzene             | 1.255 | 1.374 | -9.5  | 102   | -0.02    |
| 59 T | m/p-Xylene                | 1.120 | 1.183 | -5.6  | 104   | -0.01    |
| 60 T | o-Xylene                  | 1.067 | 1.141 | -6.9  | 105   | 0.00     |
| 61 T | Styrene                   | 0.492 | 0.584 | -18.7 | 100   | -0.02    |
| 62   | Isopropylbenzene          | 1.599 | 1.663 | -4.0  | 103   | -0.01    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.747 | 0.801 | -7.2  | 107   | -0.01    |
| 64   | n-propylbenzene           | 0.414 | 0.436 | -5.3  | 101   | -0.01    |
| 65   | tert-Butylbenzene         | 1.416 | 1.479 | -4.4  | 103   | 0.00     |
| 66 T | Benzyl Chloride           | 0.100 | 0.118 | -18.0 | 104   | 0.00     |
| 67   | sec-Butylbenzene          | 2.080 | 2.156 | -3.7  | 104   | -0.01    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.791 | 0.740 | 6.4   | 93    | 0.00     |
| 69   | p-Isopropyltoluene        | 1.719 | 1.799 | -4.7  | 103   | 0.00     |
| 70   | n-Butylbenzene            | 1.917 | 2.022 | -5.5  | 105   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.233 | 1.314 | -6.6  | 104   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.251 | 1.366 | -9.2  | 103   | -0.01    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.103 | 1.206 | -9.3  | 104   | -0.01    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.285 | 1.348 | -4.9  | 106   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.779 | 0.793 | -1.8  | 102   | -0.01    |
| 76 T | 1,4-Dichlorobenzene       | 0.764 | 0.778 | -1.8  | 101   | -0.01    |
| 77 T | 1,2-Dichlorobenzene       | 0.745 | 0.769 | -3.2  | 102   | -0.01    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.700 | 0.654 | 6.6   | 99    | -0.02    |
| 79 T | Naphthalene               | 1.088 | 1.373 | -26.2 | 102   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.448 | 0.569 | -27.0 | 92    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.749 | 0.803 | -7.2  | 101   | 0.00     |

(#) = Out of Range

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