

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL101625\  
 Data File : VL043124.D  
 Acq On : 16 Oct 2025 09:14  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Oct 17 01:11:42 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Oct 15 02:12:58 2025  
 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   | 90    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.422 | 1.540 | -8.3  | 108   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.538 | 1.454 | 5.5   | 90    | 0.00     |
| 4    | Chloromethane               | 0.563 | 0.527 | 6.4   | 95    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.552 | 0.514 | 6.9   | 96    | 0.00     |
| 6 T  | Bromomethane                | 0.303 | 0.309 | -2.0  | 107   | 0.00     |
| 7    | Chloroethane                | 0.226 | 0.214 | 5.3   | 100   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.149 | 1.213 | -5.6  | 105   | 0.00     |
| 9 T  | Propene                     | 0.682 | 0.547 | 19.8  | 75    | 0.00     |
| 10 T | Heptane                     | 1.964 | 1.584 | 19.3  | 79    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.391 | 1.618 | -16.3 | 117   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.120 | 1.225 | -9.4  | 113   | 0.00     |
| 13   | Ethanol                     | 0.252 | 0.207 | 17.9  | 96    | 0.00     |
| 14 T | Bromoethene                 | 0.416 | 0.436 | -4.8  | 106   | 0.00     |
| 15 T | Acetone                     | 1.348 | 1.258 | 6.7   | 104   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.642 | 0.601 | 6.4   | 98    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.850 | 1.933 | -4.5  | 103   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.488 | 0.531 | -8.8  | 109   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.839 | 0.816 | 2.7   | 101   | 0.00     |
| 20 T | Methylene Chloride          | 0.533 | 0.473 | 11.3  | 105   | 0.00     |
| 21 T | Allyl Chloride              | 0.993 | 0.974 | 1.9   | 96    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.583 | 0.618 | -6.0  | 108   | 0.00     |
| 23 T | Vinyl Acetate               | 1.974 | 1.996 | -1.1  | 110   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.127 | 1.192 | -5.8  | 104   | 0.00     |
| 25 T | Ethyl Acetate               | 3.342 | 2.987 | 10.6  | 86    | 0.00     |
| 26 T | Hexane                      | 1.540 | 1.401 | 9.0   | 90    | 0.00     |
| 27 T | Carbon Disulfide            | 1.411 | 1.486 | -5.3  | 101   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.701 | 0.749 | -6.8  | 115   | 0.00     |
| 29 T | Chloroform                  | 2.232 | 2.344 | -5.0  | 104   | 0.00     |
| 30 T | Cyclohexane                 | 1.344 | 1.208 | 10.1  | 89    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.471 | 1.508 | -2.5  | 96    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.324 | 2.485 | -6.9  | 104   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 87    | 0.00     |
| 34 T | 2-Butanone                  | 0.672 | 0.616 | 8.3   | 88    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.719 | 0.790 | -9.9  | 106   | 0.00     |
| 36 T | Benzene                     | 0.942 | 0.898 | 4.7   | 90    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.543 | 0.591 | -8.8  | 106   | 0.00     |
| 38 T | Trichloroethene             | 0.393 | 0.355 | 9.7   | 90    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.344 | 0.314 | 8.7   | 86    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.154 | 0.148 | 3.9   | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.314 | 16.5  | 80    | 0.00     |
| 42 T | Bromodichloromethane        | 0.751 | 0.803 | -6.9  | 100   | 0.00     |
| 43   | Methyl Methacrylate         | 0.478 | 0.447 | 6.5   | 86    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.589 | 1.443 | 9.2   | 86    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.480 | 0.484 | -0.8  | 91    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.573 | 0.547 | 4.5   | 87    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.372 | 0.355 | 4.6   | 91    | 0.00     |
| 48 T | Dibromochloromethane        | 0.622 | 0.643 | -3.4  | 95    | 0.00     |

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 ALS Vial : 1 Sample Multiplier: 1

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 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

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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                 | 0.505 | 0.515 | -2.0  | 92    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.928 | 0.809 | 12.8  | 81    | 0.00     |
| 51 T | 2-Hexanone                | 0.696 | 0.626 | 10.1  | 79    | 0.00     |
| 52 T | Tetrachloroethene         | 0.340 | 0.307 | 9.7   | 86    | 0.00     |
| 53 T | Toluene                   | 1.118 | 1.021 | 8.7   | 86    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.582 | 0.560 | 3.8   | 91    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 85    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.630 | 0.651 | -3.3  | 93    | 0.00     |
| 57 T | Chlorobenzene             | 0.936 | 0.863 | 7.8   | 86    | 0.00     |
| 58 T | Ethyl Benzene             | 1.716 | 1.660 | 3.3   | 88    | 0.00     |
| 59 T | m/p-Xylene                | 1.369 | 1.344 | 1.8   | 92    | 0.02     |
| 60 T | o-Xylene                  | 1.352 | 1.319 | 2.4   | 91    | 0.00     |
| 61 T | Styrene                   | 0.610 | 0.571 | 6.4   | 84    | 0.00     |
| 62   | Isopropylbenzene          | 2.443 | 2.365 | 3.2   | 89    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.905 | 0.824 | 9.0   | 90    | 0.00     |
| 64   | n-propylbenzene           | 0.647 | 0.593 | 8.3   | 85    | 0.00     |
| 65   | tert-Butylbenzene         | 2.157 | 2.023 | 6.2   | 90    | 0.00     |
| 66 T | Benzyl Chloride           | 0.240 | 0.217 | 9.6   | 76    | 0.00     |
| 67   | sec-Butylbenzene          | 3.062 | 2.901 | 5.3   | 91    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.777 | 0.815 | -4.9  | 88    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.602 | 2.450 | 5.8   | 89    | 0.00     |
| 70   | n-Butylbenzene            | 2.564 | 2.544 | 0.8   | 93    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.863 | 1.836 | 1.4   | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.662 | 1.616 | 2.8   | 89    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.371 | 1.347 | 1.8   | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.534 | 1.463 | 4.6   | 93    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.890 | 0.840 | 5.6   | 87    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.897 | 0.845 | 5.8   | 87    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.861 | 0.797 | 7.4   | 88    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.667 | 0.580 | 13.0  | 88    | 0.00     |
| 79 T | Naphthalene               | 1.604 | 1.627 | -1.4  | 87    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.418 | 0.463 | -10.8 | 82    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.666 | 0.652 | 2.1   | 87    | 0.00     |

(#) = Out of Range

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