

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111325\  
 Data File : VL043191.D  
 Acq On : 13 Nov 2025 09:01  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Nov 14 04:35:24 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   | 136   | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.422 | 1.319 | 7.2   | 141   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.538 | 1.464 | 4.8   | 138   | 0.00     |
| 4    | Chloromethane               | 0.563 | 0.466 | 17.2  | 127   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.552 | 0.462 | 16.3  | 131   | 0.00     |
| 6 T  | Bromomethane                | 0.303 | 0.274 | 9.6   | 143   | 0.00     |
| 7    | Chloroethane                | 0.226 | 0.184 | 18.6  | 131   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.149 | 1.056 | 8.1   | 138   | 0.00     |
| 9 T  | Propene                     | 0.682 | 0.560 | 17.9  | 116   | 0.00     |
| 10 T | Heptane                     | 1.964 | 1.814 | 7.6   | 137   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.391 | 1.439 | -3.5  | 158#  | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.120 | 1.109 | 1.0   | 155#  | 0.00     |
| 13   | Ethanol                     | 0.252 | 0.161 | 36.1# | 114   | 0.00     |
| 14 T | Bromoethene                 | 0.416 | 0.394 | 5.3   | 145   | 0.00     |
| 15 T | Acetone                     | 1.348 | 1.108 | 17.8  | 139   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.642 | 0.503 | 21.7  | 124   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.850 | 1.497 | 19.1  | 121   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.488 | 0.477 | 2.3   | 149   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.839 | 0.633 | 24.6  | 119   | 0.00     |
| 20 T | Methylene Chloride          | 0.533 | 0.432 | 18.9  | 145   | 0.00     |
| 21 T | Allyl Chloride              | 0.993 | 0.839 | 15.5  | 126   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.583 | 0.545 | 6.5   | 145   | 0.00     |
| 23 T | Vinyl Acetate               | 1.974 | 2.037 | -3.2  | 171#  | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.127 | 1.049 | 6.9   | 139   | 0.00     |
| 25 T | Ethyl Acetate               | 3.342 | 3.236 | 3.2   | 141   | 0.00     |
| 26 T | Hexane                      | 1.540 | 1.468 | 4.7   | 142   | 0.00     |
| 27 T | Carbon Disulfide            | 1.411 | 1.357 | 3.8   | 141   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.701 | 0.594 | 15.3  | 138   | 0.00     |
| 29 T | Chloroform                  | 2.232 | 2.170 | 2.8   | 146   | 0.00     |
| 30 T | Cyclohexane                 | 1.344 | 1.141 | 15.1  | 128   | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.471 | 1.360 | 7.5   | 132   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.324 | 2.065 | 11.1  | 132   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 111   | 0.00     |
| 34 T | 2-Butanone                  | 0.672 | 0.803 | -19.5 | 147   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.719 | 0.796 | -10.7 | 136   | 0.00     |
| 36 T | Benzene                     | 0.942 | 1.040 | -10.4 | 133   | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.543 | 0.600 | -10.5 | 137   | 0.00     |
| 38 T | Trichloroethene             | 0.393 | 0.378 | 3.8   | 122   | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.344 | 0.389 | -13.1 | 136   | 0.01     |
| 40 T | 1,4-Dioxane                 | 0.154 | 0.151 | 1.9   | 119   | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.402 | -6.9  | 130   | 0.00     |
| 42 T | Bromodichloromethane        | 0.751 | 0.848 | -12.9 | 135   | 0.00     |
| 43   | Methyl Methacrylate         | 0.478 | 0.488 | -2.1  | 120   | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.589 | 1.808 | -13.8 | 137   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.480 | 0.454 | 5.4   | 109   | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.573 | 0.570 | 0.5   | 116   | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.372 | 0.406 | -9.1  | 133   | 0.00     |
| 48 T | Dibromochloromethane        | 0.622 | 0.667 | -7.2  | 126   | 0.00     |

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 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 | 0.589 | -16.6 | 134   | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.928 | 1.011 | -8.9  | 128   | 0.00     |
| 51 T | 2-Hexanone                | 0.696 | 0.765 | -9.9  | 123   | 0.00     |
| 52 T | Tetrachloroethene         | 0.340 | 0.342 | -0.6  | 121   | 0.00     |
| 53 T | Toluene                   | 1.118 | 1.100 | 1.6   | 118   | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.582 | 0.608 | -4.5  | 127   | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.630 | 0.734 | -16.5 | 131   | 0.00     |
| 57 T | Chlorobenzene             | 0.936 | 1.043 | -11.4 | 129   | 0.00     |
| 58 T | Ethyl Benzene             | 1.716 | 1.809 | -5.4  | 119   | 0.00     |
| 59 T | m/p-Xylene                | 1.369 | 1.511 | -10.4 | 128   | 0.02     |
| 60 T | o-Xylene                  | 1.352 | 1.499 | -10.9 | 129   | 0.00     |
| 61 T | Styrene                   | 0.610 | 0.601 | 1.5   | 109   | 0.00     |
| 62   | Isopropylbenzene          | 2.443 | 2.714 | -11.1 | 127   | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.905 | 1.049 | -15.9 | 142   | 0.00     |
| 64   | n-propylbenzene           | 0.647 | 0.723 | -11.7 | 129   | 0.00     |
| 65   | tert-Butylbenzene         | 2.157 | 2.314 | -7.3  | 128   | 0.00     |
| 66 T | Benzyl Chloride           | 0.240 | 0.205 | 14.6  | 89    | 0.00     |
| 67   | sec-Butylbenzene          | 3.062 | 3.396 | -10.9 | 132   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.777 | 0.809 | -4.1  | 109   | 0.00     |
| 69   | p-Isopropyltoluene        | 2.602 | 2.767 | -6.3  | 125   | 0.00     |
| 70   | n-Butylbenzene            | 2.564 | 2.831 | -10.4 | 128   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.863 | 2.050 | -10.0 | 127   | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.662 | 1.880 | -13.1 | 129   | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.371 | 1.537 | -12.1 | 128   | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.534 | 1.694 | -10.4 | 134   | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.890 | 1.050 | -18.0 | 135   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.897 | 1.033 | -15.2 | 132   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.861 | 1.000 | -16.1 | 137   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.667 | 0.696 | -4.3  | 132   | 0.00     |
| 79 T | Naphthalene               | 1.604 | 1.673 | -4.3  | 111   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.418 | 0.412 | 1.4   | 91    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.666 | 0.710 | -6.6  | 117   | 0.00     |

(#) = Out of Range

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