

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL093025\  
 Data File : VL043024.D  
 Acq On : 30 Sep 2025 12:27  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/01/2025  
 Supervised By : Mahesh Dadoda 10/03/2025

Quant Time: Sep 30 23:58:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL093025AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 30 23:54:02 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.787  | 49    | 139317   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.956  | 114   | 427921   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 384278   | 10.000   | ppbv   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 303909   | 10.440   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 104.400% |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 352501   | 14.621   | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.477  | 51    | 373452   | 14.548   | ppbv   | 100      |
| 4) Chloromethane              | 1.535  | 50    | 133695   | 14.609   | ppbv   | 99       |
| 5) Vinyl Chloride             | 1.580  | 62    | 120858   | 13.615   | ppbv   | 99       |
| 6) Bromomethane               | 1.668  | 94    | 47629    | 14.848   | ppbv   | 93       |
| 7) Chloroethane               | 1.706  | 64    | 50615    | 14.284   | ppbv   | 98       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 289959   | 14.753   | ppbv   | 99       |
| 9) Propene                    | 1.483  | 41    | 144689   | 14.490   | ppbv   | 100      |
| 10) Heptane                   | 4.979  | 43    | 405660   | 15.751   | ppbv   | 100      |
| 11) Trichlorofluoromethane    | 1.878  | 101   | 362223   | 14.908   | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 284614   | 14.781   | ppbv   | 99       |
| 13) Ethanol                   | 1.723  | 45    | 11760    | 15.133   | ppbv   | 97       |
| 14) Bromoethene               | 1.781  | 108   | 106398   | 14.826   | ppbv   | 98       |
| 15) Acetone                   | 1.836  | 43    | 250074   | 12.589   | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.609  | 39    | 118543   | 14.096   | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.040  | 59    | 301080   | 13.564   | ppbv   | 100      |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 126213   | 14.574   | ppbv   | 98       |
| 19) Isopropyl Alcohol         | 1.884  | 45    | 158717   | 13.586   | ppbv   | 98       |
| 20) Methylene Chloride        | 2.062  | 84    | 118891   | 15.506   | ppbv   | 98       |
| 21) Allyl Chloride            | 2.095  | 41    | 199141   | 14.817   | ppbv   | 98       |
| 22) trans-1,2-Dichloroethene  | 2.341  | 96    | 145595   | 14.851   | ppbv   | 99       |
| 23) Vinyl Acetate             | 2.461  | 43    | 417914   | 15.228   | ppbv   | 99       |
| 24) 1,1-Dichloroethane        | 2.409  | 63    | 271460   | 14.712   | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.833  | 43    | 710402   | 14.019   | ppbv   | 100      |
| 26) Hexane                    | 2.826  | 57    | 330936   | 12.557   | ppbv   | 99       |
| 27) Carbon Disulfide          | 2.150  | 76    | 341474   | 14.732   | ppbv   | 99       |
| 28) Methyl tert-Butyl Ether   | 2.438  | 73    | 172162   | 13.345   | ppbv   | 99       |
| 29) Chloroform                | 2.849  | 83    | 492553   | 15.019   | ppbv   | 100      |
| 30) Cyclohexane               | 3.856  | 84    | 280306   | 15.442   | ppbv   | 99       |
| 31) cis-1,2-Dichloroethene    | 2.719  | 61    | 328232   | 15.339   | ppbv   | 99       |
| 32) 1,1,1-Trichloroethane     | 3.367  | 97    | 499172   | 15.026   | ppbv   | 99       |
| 34) 2-Butanone                | 2.554  | 43    | 458457   | 15.216   | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.762  | 117   | 523083   | 15.063   | ppbv   | 96       |
| 36) Benzene                   | 3.655  | 78    | 659167   | 15.369   | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.218  | 62    | 379202   | 15.474   | ppbv   | 99       |
| 38) Trichloroethene           | 4.548  | 130   | 325016   | 14.788   | ppbv   | 96       |
| 39) 1,2-Dichloropropane       | 4.312  | 63    | 240881   | 15.296   | ppbv   | 95       |
| 40) 1,4-Dioxane               | 4.574  | 88    | 105958   | 15.863   | ppbv # | 96       |
| 41) Tetrahydrofuran           | 3.050  | 42    | 256866   | 16.008   | ppbv   | 100      |
| 42) Bromodichloromethane      | 4.490  | 83    | 539023   | 15.833   | ppbv   | 96       |
| 43) Methyl Methacrylate       | 4.875  | 69    | 254204   | 16.869   | ppbv   | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.639  | 57    | 1093087  | 15.492   | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 6.412  | 75    | 287581   | 16.784   | ppbv   | 97       |

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Quant Time: Sep 30 23:58:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL093025AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Sep 30 23:54:02 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.597  | 75   | 366508   | 16.398 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.581  | 97   | 262422   | 15.709 | ppbv   | 99       |
| 48) Dibromochloromethane      | 7.387  | 129  | 458578   | 15.925 | ppbv   | 99       |
| 49) Bromoform                 | 9.484  | 173  | 403628   | 16.518 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.746  | 43   | 628731   | 16.352 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.432  | 43   | 499672   | 17.635 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.225  | 164  | 247490   | 14.476 | ppbv   | 98       |
| 53) Toluene                   | 6.934  | 91   | 773647   | 16.175 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 376048   | 16.131 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 338108   | 15.527 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 601765   | 15.191 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.355  | 91   | 1061987  | 16.304 | ppbv   | 98       |
| 59) m/p-Xylene                | 9.552  | 91   | 1698231m | 32.403 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 847939   | 16.279 | ppbv   | 99       |
| 61) Styrene                   | 9.872  | 104  | 386259   | 17.520 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 1250709  | 16.126 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 430060   | 15.383 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 332196   | 16.435 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 1111713  | 15.830 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 99365    | 17.735 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1532293  | 15.646 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 1320006  | 16.184 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.281 | 91   | 1307688  | 16.594 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 941774   | 16.281 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 1059857  | 16.540 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.203 | 105  | 883857   | 16.359 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 964228   | 15.810 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 609147   | 15.636 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 609332   | 16.004 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 582329   | 15.307 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 430692   | 14.155 | ppbv   | 99       |
| 79) Naphthalene               | 13.514 | 128  | 931872   | 19.367 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.456 | 142  | 256778   | 20.627 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 506037   | 17.343 | ppbv   | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

