

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL080425\  
 Data File : VL042796.D  
 Acq On : 04 Aug 2025 09:31  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/05/2025  
 Supervised By : Mahesh Dadoda 08/05/2025

Quant Time: Aug 05 00:59:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 05 00:59:29 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 156307   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.956 | 114  | 426613   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 380017   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 310203 10.307 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.100%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 207208 | 10.026 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.477 | 51  | 277069 | 10.292 | ppbv   | 99     |
| 4) Chloromethane              | 1.532 | 50  | 83684  | 10.009 | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.580 | 62  | 76360  | 9.244  | ppbv   | 96     |
| 6) Bromomethane               | 1.667 | 94  | 32753  | 10.256 | ppbv   | 97     |
| 7) Chloroethane               | 1.703 | 64  | 31751  | 9.948  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 169380 | 9.966  | ppbv   | 96     |
| 9) Propene                    | 1.483 | 41  | 100258 | 10.247 | ppbv   | 99     |
| 10) Heptane                   | 4.975 | 43  | 288665 | 10.942 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 217635 | 10.216 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 163050 | 10.072 | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 7381   | 9.208  | ppbv   | 100    |
| 14) Bromoethene               | 1.781 | 108 | 59854  | 10.443 | ppbv   | 98     |
| 15) Acetone                   | 1.833 | 43  | 176712 | 8.187  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.609 | 39  | 89788  | 9.753  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 195134 | 10.024 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 73240  | 10.013 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 113543 | 9.899  | ppbv   | 98     |
| 20) Methylene Chloride        | 2.062 | 84  | 61661  | 9.066  | ppbv   | 88     |
| 21) Allyl Chloride            | 2.095 | 41  | 141580 | 10.643 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 80528  | 10.234 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.460 | 43  | 286954 | 10.966 | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.409 | 63  | 166989 | 10.340 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.833 | 43  | 517370 | 10.829 | ppbv   | 99     |
| 26) Hexane                    | 2.826 | 57  | 221546 | 10.571 | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.150 | 76  | 199042 | 11.094 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether   | 2.438 | 73  | 93108  | 9.404  | ppbv   | 99     |
| 29) Chloroform                | 2.846 | 83  | 340691 | 10.520 | ppbv   | 98     |
| 30) Cyclohexane               | 3.855 | 84  | 181209 | 10.195 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 218880 | 10.164 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.367 | 97  | 335591 | 9.948  | ppbv   | 99     |
| 34) 2-Butanone                | 2.554 | 43  | 342346 | 11.329 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.762 | 117 | 351173 | 11.082 | ppbv   | 98     |
| 36) Benzene                   | 3.655 | 78  | 439144 | 10.861 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.215 | 62  | 268448 | 11.022 | ppbv   | 100    |
| 38) Trichloroethene           | 4.548 | 130 | 198489 | 10.219 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.309 | 63  | 161604 | 10.828 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 70550  | 10.142 | ppbv # | 98     |
| 41) Tetrahydrofuran           | 3.053 | 42  | 179539 | 11.676 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.487 | 83  | 368522 | 11.618 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.875 | 69  | 166622 | 11.594 | ppbv   | 98     |
| 44) 2,2,4-Trimethylpentane    | 4.639 | 57  | 754946 | 11.456 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 185713 | 11.524 | ppbv   | 96     |

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 05 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 240949   | 11.799 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.577  | 97   | 176245   | 11.078 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.387  | 129  | 301910   | 11.954 | ppbv   | 98       |
| 49) Bromoform                 | 9.481  | 173  | 262767   | 11.932 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.746  | 43   | 453959   | 11.662 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.432  | 43   | 360580   | 12.258 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.225  | 164  | 162318   | 9.686  | ppbv   | 97       |
| 53) Toluene                   | 6.930  | 91   | 489672   | 11.278 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.649  | 107  | 250956   | 11.165 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 226803   | 11.479 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.921  | 112  | 397515   | 10.808 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.354  | 91   | 692150   | 11.533 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.552  | 91   | 1134244m | 23.649 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 571988   | 11.935 | ppbv   | 98       |
| 61) Styrene                   | 9.869  | 104  | 235848   | 11.699 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.539 | 105  | 813285   | 11.505 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 327594   | 10.647 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.989 | 120  | 212922   | 11.553 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.533 | 119  | 730489   | 11.633 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.614 | 91   | 70588    | 13.694 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 1015003  | 11.365 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 875506   | 12.023 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 882533   | 12.546 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 623268   | 11.499 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 685255   | 11.973 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.203 | 105  | 572173   | 12.142 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 635314   | 12.358 | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 412343   | 11.441 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 411896   | 11.679 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 393333   | 11.104 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 317563   | 9.905  | ppbv   | 99       |
| 79) Naphthalene               | 13.514 | 128  | 609718   | 10.889 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 237582   | 8.684  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 343523   | 10.915 | ppbv   | 99       |

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

