

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL111325\  
 Data File : VL043193.D  
 Acq On : 13 Nov 2025 10:53  
 Operator : SY/MD  
 Sample : VL1113ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1113ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/17/2025  
 Supervised By :Mahesh Dadoda 11/18/2025

Quant Time: Nov 14 04:36:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 140848   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 381641   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 326347   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 258637 10.196 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 189933 | 9.485  | ppbv   | 100    |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 208224 | 9.611  | ppbv   | 100    |
| 4) Chloromethane              | 1.538 | 50  | 66230  | 8.349  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.583 | 62  | 65244  | 8.386  | ppbv   | 99     |
| 6) Bromomethane               | 1.674 | 94  | 40543  | 9.503  | ppbv   | 99     |
| 7) Chloroethane               | 1.709 | 64  | 26713  | 8.397  | ppbv   | 99     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 150613 | 9.306  | ppbv   | 91     |
| 9) Propene                    | 1.486 | 41  | 83462  | 8.686  | ppbv   | 96     |
| 10) Heptane                   | 4.994 | 43  | 260465 | 9.416  | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 205038 | 10.468 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 158562 | 10.056 | ppbv   | 98     |
| 13) Ethanol                   | 1.725 | 45  | 23269  | 6.547  | ppbv   | 95     |
| 14) Bromoethene               | 1.787 | 108 | 56772  | 9.692  | ppbv   | 97     |
| 15) Acetone                   | 1.839 | 43  | 160664 | 8.463  | ppbv   | 100    |
| 16) 1,3-Butadiene             | 1.612 | 39  | 72141  | 7.974  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 217484 | 8.346  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 69052  | 10.045 | ppbv   | 88     |
| 19) Isopropyl Alcohol         | 1.890 | 45  | 92184  | 7.796  | ppbv   | 91     |
| 20) Methylene Chloride        | 2.065 | 84  | 60706  | 8.090  | ppbv   | 95     |
| 21) Allyl Chloride            | 2.101 | 41  | 119083 | 8.513  | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 79043  | 9.619  | ppbv   | 91     |
| 23) Vinyl Acetate             | 2.467 | 43  | 285067 | 10.251 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 150976 | 9.509  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.839 | 43  | 467192 | 9.924  | ppbv   | 99     |
| 26) Hexane                    | 2.836 | 57  | 206119 | 9.502  | ppbv   | 98     |
| 27) Carbon Disulfide          | 2.156 | 76  | 195762 | 9.849  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 80192  | 8.126  | ppbv   | 94     |
| 29) Chloroform                | 2.855 | 83  | 309209 | 9.837  | ppbv   | 99     |
| 30) Cyclohexane               | 3.868 | 84  | 163223 | 8.621  | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 196567 | 9.489  | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 294760 | 9.005  | ppbv   | 97     |
| 34) 2-Butanone                | 2.560 | 43  | 306642 | 11.953 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 307371 | 11.202 | ppbv   | 98     |
| 36) Benzene                   | 3.664 | 78  | 401100 | 11.159 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 228931 | 11.056 | ppbv   | 98     |
| 38) Trichloroethene           | 4.561 | 130 | 148220 | 9.873  | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.324 | 63  | 146018 | 11.112 | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.590 | 88  | 60137  | 10.227 | ppbv # | 95     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 159113 | 11.089 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.499 | 83  | 329652 | 11.502 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.888 | 69  | 188689 | 10.336 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.655 | 57  | 691827 | 11.408 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 175660 | 9.588  | ppbv   | 96     |

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Quant Time: Nov 14 04:36:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL101425AIR.M

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

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.616  | 75   | 222196   | 10.153 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.593  | 97   | 159359   | 11.230 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.396  | 129  | 258701   | 10.903 | ppbv   | 98       |
| 49) Bromoform                 | 9.490  | 173  | 221619   | 11.491 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 385105   | 10.877 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.444  | 43   | 289935   | 10.918 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.234  | 164  | 133238   | 10.279 | ppbv   | 97       |
| 53) Toluene                   | 6.946  | 91   | 428768   | 10.051 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 236351   | 10.633 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 240077   | 11.670 | ppbv   | 100      |
| 57) Chlorobenzene             | 8.930  | 112  | 337602   | 11.058 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 594417   | 10.613 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.558  | 91   | 989218m  | 22.144 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 487054   | 11.039 | ppbv   | 100      |
| 61) Styrene                   | 9.878  | 104  | 198117   | 9.947  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.545 | 105  | 876032   | 10.988 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 335111   | 11.343 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 228911   | 10.845 | ppbv   | 91       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 750836   | 10.665 | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.623 | 91   | 68177    | 8.701  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 1088172  | 10.891 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 901546   | 10.618 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 917214   | 10.962 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 661575   | 10.880 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 603491   | 11.124 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 496215   | 11.091 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 543655   | 10.858 | ppbv # | 84       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 334602   | 11.522 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 337741   | 11.534 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 321835   | 11.456 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.889 | 225  | 222076   | 10.210 | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128  | 535902   | 10.240 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 136849   | 10.037 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 232626   | 10.710 | ppbv   | 99       |

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

## Manual Integrations

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Wed Oct 15 02:12:58 2025  
Response via : Initial Calibration

