

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050625\  
 Data File : VL042495.D  
 Acq On : 06 May 2025 14:26  
 Operator : SY/MD  
 Sample : MDL1 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL1 0.45

Quant Time: May 07 02:21:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/07/2025  
 Supervised By : Mahesh Dadoda 05/09/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 65243    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 170299   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 146099   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 135652 10.015 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 7060   | 0.654 | ppbv   | 89     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 6184   | 0.542 | ppbv   | 96     |
| 4) Chloromethane              | 1.534 | 50  | 2732   | 0.605 | ppbv   | 94     |
| 5) Vinyl Chloride             | 1.580 | 62  | 2470   | 0.544 | ppbv # | 71     |
| 6) Bromomethane               | 1.667 | 94  | 1524   | 0.710 | ppbv # | 76     |
| 7) Chloroethane               | 1.709 | 64  | 1335   | 0.796 | ppbv # | 80     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 5772   | 0.649 | ppbv   | 94     |
| 9) Propene                    | 1.486 | 41  | 1426   | 0.382 | ppbv # | 66     |
| 10) Heptane                   | 4.991 | 43  | 3366m  | 0.348 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 6160   | 0.618 | ppbv   | 91     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 5883   | 0.740 | ppbv   | 94     |
| 13) Ethanol                   | 1.719 | 45  | 362m   | 0.478 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 1829   | 0.623 | ppbv # | 96     |
| 15) Acetone                   | 1.839 | 43  | 9455   | 0.794 | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 3484   | 0.663 | ppbv   | 91     |
| 17) tert-Butyl alcohol        | 2.042 | 59  | 5729   | 0.546 | ppbv   | 96     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 1958   | 0.527 | ppbv   | 92     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 4538   | 0.688 | ppbv # | 1      |
| 20) Methylene Chloride        | 2.062 | 84  | 2506   | 0.700 | ppbv # | 85     |
| 21) Allyl Chloride            | 2.098 | 41  | 4486   | 0.586 | ppbv   | 86     |
| 22) trans-1,2-Dichloroethene  | 2.343 | 96  | 2815   | 0.649 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.463 | 43  | 4763   | 0.419 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 5290   | 0.598 | ppbv # | 95     |
| 25) Ethyl Acetate             | 2.845 | 43  | 7124   | 0.374 | ppbv # | 89     |
| 26) Hexane                    | 2.829 | 57  | 2947m  | 0.355 | ppbv   |        |
| 27) Carbon Disulfide          | 2.153 | 76  | 4823   | 0.497 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.450 | 73  | 2959m  | 0.593 | ppbv   |        |
| 29) Chloroform                | 2.848 | 83  | 8819   | 0.566 | ppbv   | 99     |
| 30) Cyclohexane               | 3.852 | 84  | 2382m  | 0.343 | ppbv   |        |
| 31) cis-1,2-Dichloroethene    | 2.722 | 61  | 3566   | 0.368 | ppbv # | 87     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 8008   | 0.474 | ppbv   | 97     |
| 34) 2-Butanone                | 2.564 | 43  | 5810   | 0.472 | ppbv # | 90     |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 9149   | 0.591 | ppbv # | 76     |
| 36) Benzene                   | 3.661 | 78  | 7063   | 0.439 | ppbv # | 85     |
| 37) 1,2-Dichloroethane        | 3.221 | 62  | 6563   | 0.530 | ppbv   | 97     |
| 38) Trichloroethene           | 4.544 | 130 | 3095m  | 0.505 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 3134m  | 0.521 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.625 | 88  | 1180m  | 0.419 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.068 | 42  | 2085m  | 0.356 | ppbv   |        |
| 42) Bromodichloromethane      | 4.499 | 83  | 8467m  | 0.559 | ppbv   |        |
| 43) Methyl Methacrylate       | 4.891 | 69  | 1859m  | 0.310 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.641 | 57  | 10431m | 0.400 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.425 | 75  | 2842m  | 0.361 | ppbv   |        |

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

QLast Update : Fri May 02 03:16:31 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 3689m    | 0.395 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.593  | 97   | 3528m    | 0.535 | ppbv   |          |
| 48) Dibromochloromethane      | 7.393  | 129  | 5516m    | 0.495 | ppbv   |          |
| 49) Bromoform                 | 9.496  | 173  | 4662m    | 0.499 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 5.774  | 43   | 5978m    | 0.384 | ppbv   |          |
| 51) 2-Hexanone                | 7.454  | 43   | 4704m    | 0.378 | ppbv   |          |
| 52) Tetrachloroethene         | 8.231  | 164  | 2953m    | 0.483 | ppbv   |          |
| 53) Toluene                   | 6.936  | 91   | 5519m    | 0.324 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 4996m    | 0.495 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 4504     | 0.522 | ppbv # | 53       |
| 57) Chlorobenzene             | 8.933  | 112  | 8446m    | 0.575 | ppbv   |          |
| 58) Ethyl Benzene             | 9.364  | 91   | 8364m    | 0.343 | ppbv   |          |
| 59) m/p-Xylene                | 9.542  | 91   | 13117m   | 0.641 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 6504m    | 0.317 | ppbv   |          |
| 61) Styrene                   | 9.878  | 104  | 2382     | 0.311 | ppbv # | 79       |
| 62) Isopropylbenzene          | 10.542 | 105  | 10906    | 0.369 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 7186     | 0.509 | ppbv   | 93       |
| 64) n-propylbenzene           | 10.992 | 120  | 2494     | 0.345 | ppbv   | 87       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 7960m    | 0.302 | ppbv   |          |
| 66) Benzyl Chloride           | 11.623 | 91   | 1253m    | 0.411 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.775 | 105  | 12507    | 0.334 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.930 | 119  | 10141    | 0.321 | ppbv # | 93       |
| 70) n-Butylbenzene            | 12.286 | 91   | 9641     | 0.295 | ppbv   | 93       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 8237     | 0.355 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 8165     | 0.338 | ppbv   | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 6809     | 0.320 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 8755     | 0.341 | ppbv # | 84       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 7206     | 0.503 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 6355     | 0.469 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 6988     | 0.499 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 7369     | 0.527 | ppbv   | 97       |
| 79) Naphthalene               | 13.513 | 128  | 5267     | 0.243 | ppbv # | 88       |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 2039     | 0.127 | ppbv # | 83       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 3453     | 0.299 | ppbv   | 97       |

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

