

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL072325\  
 Data File : VL042750.D  
 Acq On : 23 Jul 2025 10:42  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025  
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

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

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 151256   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.956 | 114  | 446836   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.879 | 117  | 408626   | 10.000 | ppbv  | 0.00     |

07/24/2025  
 Supervised By : Mahesh  
 Dadoda

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 319353   | 9.869    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.700% |

07/24/2025

Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 11099  | 0.555 | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 14291  | 0.549 | ppbv   | 97     |
| 4) Chloromethane              | 1.531 | 50  | 4428   | 0.547 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.580 | 62  | 3902   | 0.488 | ppbv   | 97     |
| 6) Bromomethane               | 1.667 | 94  | 1717   | 0.556 | ppbv # | 38     |
| 7) Chloroethane               | 1.703 | 64  | 2102   | 0.681 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 8971   | 0.545 | ppbv   | 97     |
| 9) Propene                    | 1.483 | 41  | 4695   | 0.496 | ppbv # | 77     |
| 10) Heptane                   | 4.978 | 43  | 13003m | 0.511 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.878 | 101 | 11021  | 0.535 | ppbv   | 90     |
| 12) 1,1,2-Trichlorotrifluo... | 2.137 | 101 | 8430   | 0.538 | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 1066m  | 0.498 | ppbv   |        |
| 14) Bromoethene               | 1.781 | 108 | 2971   | 0.536 | ppbv # | 92     |
| 15) Acetone                   | 1.836 | 43  | 14012  | 0.671 | ppbv # | 88     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 5488   | 0.616 | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.040 | 59  | 10333  | 0.549 | ppbv # | 77     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 4051   | 0.572 | ppbv   | 77     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 6478   | 0.584 | ppbv # | 81     |
| 20) Methylene Chloride        | 2.059 | 84  | 4500   | 0.684 | ppbv   | 82     |
| 21) Allyl Chloride            | 2.098 | 41  | 6829   | 0.531 | ppbv # | 80     |
| 22) trans-1,2-Dichloroethene  | 2.341 | 96  | 4186   | 0.551 | ppbv   | 88     |
| 23) Vinyl Acetate             | 2.460 | 43  | 12423  | 0.491 | ppbv # | 76     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 7962   | 0.509 | ppbv # | 91     |
| 25) Ethyl Acetate             | 2.836 | 43  | 23632  | 0.511 | ppbv   | 97     |
| 26) Hexane                    | 2.823 | 57  | 10019  | 0.494 | ppbv   | 90     |
| 27) Carbon Disulfide          | 2.150 | 76  | 8670   | 0.499 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 4937   | 0.515 | ppbv # | 79     |
| 29) Chloroform                | 2.849 | 83  | 17100  | 0.546 | ppbv # | 82     |
| 30) Cyclohexane               | 3.855 | 84  | 8596   | 0.500 | ppbv   | 89     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 11032  | 0.529 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.367 | 97  | 16132  | 0.494 | ppbv   | 97     |
| 34) 2-Butanone                | 2.557 | 43  | 16299  | 0.515 | ppbv   | 94     |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 15207  | 0.458 | ppbv   | 90     |
| 36) Benzene                   | 3.651 | 78  | 21800  | 0.515 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.215 | 62  | 13299  | 0.521 | ppbv # | 95     |
| 38) Trichloroethene           | 4.548 | 130 | 10097m | 0.494 | ppbv   |        |
| 39) 1,2-Dichloropropane       | 4.312 | 63  | 8291   | 0.530 | ppbv # | 90     |
| 40) 1,4-Dioxane               | 4.606 | 88  | 3963m  | 0.538 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.056 | 42  | 8064m  | 0.507 | ppbv   |        |
| 42) Bromodichloromethane      | 4.487 | 83  | 16080m | 0.484 | ppbv   |        |
| 43) Methyl Methacrylate       | 4.881 | 69  | 7162m  | 0.476 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.639 | 57  | 33853  | 0.490 | ppbv   | 93     |
| 45) t-1,3-Dichloropropene     | 6.412 | 75  | 7968m  | 0.472 | ppbv   |        |

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |                              |
|-------------------------------|--------|------|----------|-------|--------|----------|------------------------------|
| 46) cis-1,3-Dichloropropene   | 5.593  | 75   | 9709m    | 0.454 | ppbv   |          | 07/24/2025                   |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 8782m    | 0.527 | ppbv   |          | Supervised By :Mahesh Dadoda |
| 48) Dibromochloromethane      | 7.383  | 129  | 12723m   | 0.481 | ppbv   |          |                              |
| 49) Bromoform                 | 9.481  | 173  | 10801    | 0.468 | ppbv   | 97       |                              |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 19575m   | 0.486 | ppbv   |          |                              |
| 51) 2-Hexanone                | 7.448  | 43   | 12813m   | 0.416 | ppbv   |          |                              |
| 52) Tetrachloroethene         | 8.218  | 164  | 8359     | 0.475 | ppbv # | 81       | 07/24/2025                   |
| 53) Toluene                   | 6.924  | 91   | 21324    | 0.469 | ppbv   | 95       |                              |
| 54) 1,2-Dibromoethane         | 7.649  | 107  | 12294m   | 0.521 | ppbv   |          |                              |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 11191    | 0.527 | ppbv # | 1        |                              |
| 57) Chlorobenzene             | 8.921  | 112  | 20828    | 0.527 | ppbv # | 84       |                              |
| 58) Ethyl Benzene             | 9.354  | 91   | 29134    | 0.451 | ppbv   | 96       |                              |
| 59) m/p-Xylene                | 9.549  | 91   | 47028m   | 0.912 | ppbv   |          |                              |
| 60) o-Xylene                  | 9.963  | 91   | 23603    | 0.458 | ppbv   | 100      |                              |
| 61) Styrene                   | 9.872  | 104  | 9195     | 0.424 | ppbv   | 97       |                              |
| 62) Isopropylbenzene          | 10.539 | 105  | 35189    | 0.463 | ppbv   | 97       |                              |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 15544    | 0.463 | ppbv   | 99       |                              |
| 64) n-propylbenzene           | 10.989 | 120  | 8924     | 0.450 | ppbv   | 99       |                              |
| 65) tert-Butylbenzene         | 11.529 | 119  | 30560    | 0.453 | ppbv   | 95       |                              |
| 66) Benzyl Chloride           | 11.617 | 91   | 2336m    | 0.421 | ppbv   |          |                              |
| 67) sec-Butylbenzene          | 11.766 | 105  | 44169    | 0.460 | ppbv   | 100      |                              |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 33104    | 0.423 | ppbv   | 99       |                              |
| 70) n-Butylbenzene            | 12.280 | 91   | 29048    | 0.384 | ppbv   | 99       |                              |
| 71) 2-Chlorotoluene           | 10.902 | 91   | 27184    | 0.466 | ppbv   | 97       |                              |
| 72) 4-Ethyltoluene            | 11.125 | 105  | 26395    | 0.429 | ppbv # | 95       |                              |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 22392    | 0.442 | ppbv # | 85       |                              |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 22772    | 0.412 | ppbv   | 96       |                              |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 18680    | 0.482 | ppbv   | 96       |                              |
| 76) 1,4-Dichlorobenzene       | 11.669 | 146  | 17616    | 0.465 | ppbv   | 97       |                              |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 18799    | 0.494 | ppbv   | 98       |                              |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 18330    | 0.532 | ppbv   | 99       |                              |
| 79) Naphthalene               | 13.514 | 128  | 9916     | 0.592 | ppbv   | 97       |                              |
| 80) Naphthalene,2-methyl-     | 14.481 | 142  | 731      | 1.148 | ppbv # | 61       |                              |
| 81) 1,2,4-Trichlorobenzene    | 13.436 | 180  | 7453     | 0.645 | ppbv   | 95       |                              |

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

