

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050725\  
 Data File : VL042518.D  
 Acq On : 07 May 2025 15:02  
 Operator : SY/MD  
 Sample : MDL1 0.40  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL1 0.40

Quant Time: May 08 01:37:31 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 05/08/2025  
 Supervised By : Mahesh Dadoda 05/09/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 71533    | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.972 | 114  | 184794   | 10.000 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 8.894 | 117  | 153066   | 10.000 | ppbv  | 0.01     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.387 | 95    | 145687   | 10.266   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.700% |

| Target Compounds              |       |     |       |       | Qvalue |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 5830  | 0.493 | ppbv   | 90  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 6172  | 0.493 | ppbv   | 98  |
| 4) Chloromethane              | 1.534 | 50  | 2867  | 0.579 | ppbv   | 99  |
| 5) Vinyl Chloride             | 1.580 | 62  | 2164  | 0.434 | ppbv # | 66  |
| 6) Bromomethane               | 1.667 | 94  | 1274  | 0.541 | ppbv   | 92  |
| 7) Chloroethane               | 1.706 | 64  | 1005  | 0.546 | ppbv # | 87  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 5551  | 0.569 | ppbv   | 99  |
| 9) Propene                    | 1.486 | 41  | 1290m | 0.315 | ppbv   |     |
| 10) Heptane                   | 5.007 | 43  | 3422m | 0.322 | ppbv   |     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 5919  | 0.542 | ppbv   | 94  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 4505  | 0.517 | ppbv   | 98  |
| 13) Ethanol                   | 1.725 | 45  | 690   | 0.831 | ppbv   | 99  |
| 14) Bromoethene               | 1.784 | 108 | 1457  | 0.452 | ppbv # | 78  |
| 15) Acetone                   | 1.842 | 43  | 8158  | 0.625 | ppbv   | 100 |
| 16) 1,3-Butadiene             | 1.609 | 39  | 3123  | 0.542 | ppbv # | 80  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 4728  | 0.411 | ppbv   | 96  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 1875  | 0.460 | ppbv   | 83  |
| 19) Isopropyl Alcohol         | 1.890 | 45  | 3531  | 0.489 | ppbv   | 100 |
| 20) Methylene Chloride        | 2.068 | 84  | 2484  | 0.633 | ppbv # | 79  |
| 21) Allyl Chloride            | 2.101 | 41  | 4271  | 0.509 | ppbv   | 86  |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 2473m | 0.520 | ppbv   |     |
| 23) Vinyl Acetate             | 2.466 | 43  | 5005  | 0.402 | ppbv # | 91  |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 4864  | 0.501 | ppbv   | 98  |
| 25) Ethyl Acetate             | 2.852 | 43  | 6530  | 0.312 | ppbv # | 90  |
| 26) Hexane                    | 2.826 | 57  | 2650m | 0.291 | ppbv   |     |
| 27) Carbon Disulfide          | 2.153 | 76  | 4817  | 0.453 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 2710  | 0.495 | ppbv   | 96  |
| 29) Chloroform                | 2.855 | 83  | 8716  | 0.511 | ppbv   | 94  |
| 30) Cyclohexane               | 3.868 | 84  | 1898  | 0.249 | ppbv # | 80  |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 3481  | 0.328 | ppbv # | 75  |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 8270  | 0.447 | ppbv   | 96  |
| 34) 2-Butanone                | 2.567 | 43  | 4830  | 0.361 | ppbv # | 87  |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 7513  | 0.448 | ppbv   | 98  |
| 36) Benzene                   | 3.671 | 78  | 7107m | 0.408 | ppbv   |     |
| 37) 1,2-Dichloroethane        | 3.227 | 62  | 6905  | 0.514 | ppbv # | 95  |
| 38) Trichloroethene           | 4.554 | 130 | 2732m | 0.411 | ppbv   |     |
| 39) 1,2-Dichloropropane       | 4.321 | 63  | 3200m | 0.490 | ppbv   |     |
| 40) 1,4-Dioxane               | 4.635 | 88  | 1023m | 0.335 | ppbv   |     |
| 41) Tetrahydrofuran           | 3.075 | 42  | 1765m | 0.278 | ppbv   |     |
| 42) Bromodichloromethane      | 4.499 | 83  | 7504  | 0.457 | ppbv # | 78  |
| 43) Methyl Methacrylate       | 4.904 | 69  | 2275m | 0.350 | ppbv   |     |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 9144m | 0.323 | ppbv   |     |
| 45) t-1,3-Dichloropropene     | 6.422 | 75  | 2636m | 0.309 | ppbv   |     |

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Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 05/08/2025  
 Supervised By :Mahesh Dadoda 05/09/2025

Quant Time: May 08 01:37:31 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

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.616  | 75   | 3304m    | 0.326 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.596  | 97   | 3695m    | 0.516 | ppbv   |          |
| 48) Dibromochloromethane      | 7.399  | 129  | 5711m    | 0.472 | ppbv   |          |
| 49) Bromoform                 | 9.496  | 173  | 4368     | 0.431 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.794  | 43   | 5656m    | 0.335 | ppbv   |          |
| 51) 2-Hexanone                | 7.461  | 43   | 3941m    | 0.292 | ppbv   |          |
| 52) Tetrachloroethene         | 8.241  | 164  | 2479m    | 0.373 | ppbv   |          |
| 53) Toluene                   | 6.946  | 91   | 4792m    | 0.260 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.671  | 107  | 4358m    | 0.398 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 4788m    | 0.530 | ppbv   |          |
| 57) Chlorobenzene             | 8.930  | 112  | 7114m    | 0.463 | ppbv   |          |
| 58) Ethyl Benzene             | 9.364  | 91   | 6659     | 0.260 | ppbv # | 79       |
| 59) m/p-Xylene                | 9.564  | 91   | 11195m   | 0.522 | ppbv   |          |
| 60) o-Xylene                  | 9.976  | 91   | 5590     | 0.260 | ppbv   | 97       |
| 61) Styrene                   | 9.882  | 104  | 2040m    | 0.255 | ppbv   |          |
| 62) Isopropylbenzene          | 10.545 | 105  | 9300     | 0.300 | ppbv   | 92       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 7571     | 0.511 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 2115m    | 0.279 | ppbv   |          |
| 65) tert-Butylbenzene         | 11.542 | 119  | 7357m    | 0.266 | ppbv   |          |
| 66) Benzyl Chloride           | 11.623 | 91   | 1297m    | 0.406 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.775 | 105  | 11376    | 0.290 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 7995     | 0.242 | ppbv   | 93       |
| 70) n-Butylbenzene            | 12.293 | 91   | 8669     | 0.253 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 7314m    | 0.301 | ppbv   |          |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 6483m    | 0.256 | ppbv   |          |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 5388     | 0.242 | ppbv   | 88       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 7099     | 0.264 | ppbv # | 95       |
| 75) 1,3-Dichlorobenzene       | 11.616 | 146  | 6150     | 0.410 | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 5631     | 0.397 | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 6097     | 0.415 | ppbv   | 91       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 7506     | 0.512 | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128  | 4276m    | 0.189 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 14.468 | 142  | 914      | 0.054 | ppbv # | 92       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 2517     | 0.208 | ppbv   | 92       |

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

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