

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022125\  
 Data File : VL042034.D  
 Acq On : 21 Feb 2025 10:23  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Feb 21 21:49:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/24/2025  
 Supervised By : Mahesh Dadoda 02/24/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 96177    | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 3.955 | 114  | 241609   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.878 | 117  | 222442   | 10.000 | ppbv  | -0.02    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 185152 10.091 ppbv -0.01  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 152160 | 9.190  | ppbv   | 97     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 211930 | 11.579 | ppbv   | 98     |
| 4) Chloromethane              | 1.531 | 50  | 59114  | 9.188  | ppbv   | 97     |
| 5) Vinyl Chloride             | 1.580 | 62  | 56373  | 7.327  | ppbv   | 96     |
| 6) Bromomethane               | 1.667 | 94  | 25249  | 8.466  | ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 22725  | 9.063  | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane  | 1.554 | 85  | 126367 | 8.676  | ppbv   | 98     |
| 9) Propene                    | 1.483 | 41  | 84353  | 10.690 | ppbv   | 98     |
| 10) Heptane                   | 4.975 | 43  | 248846 | 11.356 | ppbv   | 98     |
| 11) Trichlorofluoromethane    | 1.877 | 101 | 151480 | 9.091  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 119966 | 9.233  | ppbv   | 97     |
| 13) Ethanol                   | 1.719 | 45  | 4181   | 4.698  | ppbv   | 91     |
| 14) Bromoethene               | 1.780 | 108 | 42074  | 8.671  | ppbv   | 97     |
| 15) Acetone                   | 1.835 | 43  | 126580 | 7.974  | ppbv   | 96     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 61275  | 8.137  | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 165367 | 8.419  | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.033 | 96  | 51607  | 8.311  | ppbv   | 92     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 74397  | 8.358  | ppbv   | 99     |
| 20) Methylene Chloride        | 2.059 | 84  | 48010  | 8.034  | ppbv   | 90     |
| 21) Allyl Chloride            | 2.094 | 41  | 99632  | 8.669  | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.340 | 96  | 58399  | 8.667  | ppbv   | 94     |
| 23) Vinyl Acetate             | 2.460 | 43  | 94565  | 11.001 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 2.408 | 63  | 122220 | 8.934  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.835 | 43  | 496239 | 11.389 | ppbv   | 99     |
| 26) Hexane                    | 2.823 | 57  | 208594 | 11.930 | ppbv   | 94     |
| 27) Carbon Disulfide          | 2.149 | 76  | 150702 | 9.164  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.441 | 73  | 91146  | 8.528  | ppbv   | 100    |
| 29) Chloroform                | 2.845 | 83  | 272319 | 10.753 | ppbv   | 92     |
| 30) Cyclohexane               | 3.855 | 84  | 163645 | 11.537 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene    | 2.719 | 61  | 194010 | 11.227 | ppbv   | 94     |
| 32) 1,1,1-Trichloroethane     | 3.366 | 97  | 279320 | 9.946  | ppbv   | 98     |
| 34) 2-Butanone                | 2.557 | 43  | 287518 | 13.832 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.761 | 117 | 262294 | 11.180 | ppbv   | 99     |
| 36) Benzene                   | 3.654 | 78  | 382440 | 13.067 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.217 | 62  | 222192 | 13.336 | ppbv   | 97     |
| 38) Trichloroethene           | 4.551 | 130 | 135154 | 11.367 | ppbv   | 91     |
| 39) 1,2-Dichloropropane       | 4.315 | 63  | 143700 | 13.393 | ppbv   | 100    |
| 40) 1,4-Dioxane               | 4.580 | 88  | 64177  | 11.494 | ppbv # | 79     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 168527 | 14.187 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.489 | 83  | 304101 | 13.473 | ppbv   | 93     |
| 43) Methyl Methacrylate       | 4.881 | 69  | 156100 | 11.700 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.638 | 57  | 675335 | 13.593 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 159371 | 12.654 | ppbv   | 96     |

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Instrument :  
 MSVOA\_L  
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Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/24/2025  
 Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 21 21:49:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL021425AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.600  | 75   | 203587   | 12.740 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.583  | 97   | 140706   | 12.460 | ppbv   | 96       |
| 48) Dibromochloromethane      | 7.383  | 129  | 226878   | 11.996 | ppbv   | 99       |
| 49) Bromoform                 | 9.484  | 173  | 182464   | 11.762 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.748  | 43   | 413492   | 12.943 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.431  | 43   | 338105   | 12.940 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.221  | 164  | 108347   | 10.614 | ppbv   | 93       |
| 53) Toluene                   | 6.930  | 91   | 425619   | 12.204 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.648  | 107  | 190617   | 12.260 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.924  | 131  | 168690   | 10.595 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.920  | 112  | 299813   | 11.457 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.354  | 91   | 591042   | 12.140 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.552  | 91   | 917075m  | 23.916 | ppbv   |          |
| 60) o-Xylene                  | 9.963  | 91   | 451249   | 11.636 | ppbv   | 100      |
| 61) Styrene                   | 9.869  | 104  | 220095   | 11.902 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.539 | 105  | 670608   | 11.518 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 294121   | 11.755 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.989 | 120  | 164222   | 11.479 | ppbv   | 95       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 563735   | 11.106 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.613 | 91   | 52378    | 10.295 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 819470   | 11.494 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 632532   | 10.838 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.283 | 91   | 680533   | 11.838 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 519116   | 11.839 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.124 | 105  | 530659   | 11.679 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.202 | 105  | 448465   | 11.442 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.536 | 105  | 470940   | 11.196 | ppbv # | 87       |
| 75) 1,3-Dichlorobenzene       | 11.607 | 146  | 254094   | 11.222 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.672 | 146  | 250833   | 11.360 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.947 | 146  | 240789   | 11.125 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.882 | 225  | 156406   | 8.734  | ppbv   | 99       |
| 79) Naphthalene               | 13.513 | 128  | 378912   | 9.158  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.458 | 142  | 124567   | 6.650  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 160029   | 9.514  | ppbv   | 99       |

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

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