

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL010925\  
 Data File : VL041859.D  
 Acq On : 09 Jan 2025 11:19  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025  
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL010925AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.803 | 49   | 150033   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.985 | 114  | 442867   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 410499   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 328846 9.353 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.500%

Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 226313 | 9.193  | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.483 | 51  | 247276 | 10.513 | ppbv   | 98     |
| 4) Chloromethane              | 1.541 | 50  | 85664  | 8.462  | ppbv   | 95     |
| 5) Vinyl Chloride             | 1.586 | 62  | 86352  | 8.457  | ppbv   | 98     |
| 6) Bromomethane               | 1.677 | 94  | 39829  | 9.107  | ppbv   | 96     |
| 7) Chloroethane               | 1.713 | 64  | 34351  | 8.740  | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 195898 | 9.224  | ppbv   | 93     |
| 9) Propene                    | 1.489 | 41  | 112124 | 13.692 | ppbv   | 98     |
| 10) Heptane                   | 5.014 | 43  | 303272 | 14.992 | ppbv   | 95     |
| 11) Trichlorofluoromethane    | 1.887 | 101 | 222752 | 8.899  | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.153 | 101 | 181116 | 9.715  | ppbv   | 90     |
| 13) Ethanol                   | 1.729 | 45  | 5261m  | 5.647  | ppbv   |        |
| 14) Bromoethene               | 1.790 | 108 | 65566  | 10.743 | ppbv   | 96     |
| 15) Acetone                   | 1.845 | 43  | 183039 | 6.626  | ppbv   | 94     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 86059  | 7.945  | ppbv   | 94     |
| 17) tert-Butyl alcohol        | 2.052 | 59  | 256303 | 10.708 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.046 | 96  | 81423  | 10.432 | ppbv   | 89     |
| 19) Isopropyl Alcohol         | 1.897 | 45  | 110578 | 8.528  | ppbv # | 1      |
| 20) Methylene Chloride        | 2.072 | 84  | 71501  | 9.055  | ppbv # | 81     |
| 21) Allyl Chloride            | 2.107 | 41  | 141576 | 9.950  | ppbv   | 90     |
| 22) trans-1,2-Dichloroethene  | 2.353 | 96  | 92062  | 10.553 | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.480 | 43  | 121914 | 13.762 | ppbv # | 92     |
| 24) 1,1-Dichloroethane        | 2.425 | 63  | 177291 | 9.286  | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.855 | 43  | 589565 | 12.728 | ppbv   | 98     |
| 26) Hexane                    | 2.845 | 57  | 236237 | 14.695 | ppbv   | 88     |
| 27) Carbon Disulfide          | 2.162 | 76  | 226986 | 14.877 | ppbv # | 88     |
| 28) Methyl tert-Butyl Ether   | 2.457 | 73  | 170565 | 14.077 | ppbv   | 98     |
| 29) Chloroform                | 2.868 | 83  | 328206 | 10.989 | ppbv   | 97     |
| 30) Cyclohexane               | 3.884 | 84  | 204595 | 16.773 | ppbv # | 89     |
| 31) cis-1,2-Dichloroethene    | 2.739 | 61  | 230732 | 13.944 | ppbv   | 92     |
| 32) 1,1,1-Trichloroethane     | 3.392 | 97  | 328356 | 12.132 | ppbv   | 94     |
| 34) 2-Butanone                | 2.573 | 43  | 333402 | 9.557  | ppbv   | 95     |
| 35) Carbon Tetrachloride      | 3.787 | 117 | 324320 | 9.690  | ppbv   | 97     |
| 36) Benzene                   | 3.680 | 78  | 486852 | 11.507 | ppbv # | 95     |
| 37) 1,2-Dichloroethane        | 3.240 | 62  | 249944 | 8.987  | ppbv   | 97     |
| 38) Trichloroethene           | 4.577 | 130 | 188346 | 11.357 | ppbv   | 95     |
| 39) 1,2-Dichloropropane       | 4.344 | 63  | 171561 | 10.483 | ppbv # | 84     |
| 40) 1,4-Dioxane               | 4.616 | 88  | 83645  | 13.190 | ppbv # | 66     |
| 41) Tetrahydrofuran           | 3.075 | 42  | 201204 | 12.236 | ppbv   | 93     |
| 42) Bromodichloromethane      | 4.522 | 83  | 355888 | 10.910 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.914 | 69  | 199710 | 15.032 | ppbv   | 87     |
| 44) 2,2,4-Trimethylpentane    | 4.674 | 57  | 809851 | 11.618 | ppbv   | 93     |
| 45) t-1,3-Dichloropropene     | 6.454 | 75  | 212343 | 16.371 | ppbv   | 97     |

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Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL010925AIR.M

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

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.639  | 75   | 269395   | 15.788 | ppbv   | 87       |
| 47) 1,1,2-Trichloroethane     | 6.619  | 97   | 176811   | 10.214 | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.419  | 129  | 290737   | 13.195 | ppbv   | 99       |
| 49) Bromoform                 | 9.506  | 173  | 257972   | 14.609 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.797  | 43   | 490478   | 12.169 | ppbv   | 92       |
| 51) 2-Hexanone                | 7.467  | 43   | 402499   | 13.184 | ppbv # | 88       |
| 52) Tetrachloroethene         | 8.251  | 164  | 168568   | 13.435 | ppbv   | 96       |
| 53) Toluene                   | 6.969  | 91   | 574578   | 15.242 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.681  | 107  | 248821   | 11.739 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 224424   | 9.592  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.946  | 112  | 417085   | 9.725  | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.380  | 91   | 782806   | 13.992 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.558  | 91   | 1220366m | 24.712 | ppbv   |          |
| 60) o-Xylene                  | 9.985  | 91   | 605176   | 12.598 | ppbv   | 99       |
| 61) Styrene                   | 9.895  | 104  | 315614   | 16.935 | ppbv   | 97       |
| 62) Isopropylbenzene          | 10.561 | 105  | 915687   | 12.133 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.985  | 83   | 362310   | 8.601  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.011 | 120  | 235202   | 12.147 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.552 | 119  | 801987   | 11.792 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.636 | 91   | 88168    | 15.512 | ppbv   | 95       |
| 67) sec-Butylbenzene          | 11.788 | 105  | 1100240  | 11.087 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.947 | 119  | 952865   | 12.230 | ppbv   | 97       |
| 70) n-Butylbenzene            | 12.300 | 91   | 946867   | 12.097 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.921 | 91   | 700520   | 12.787 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.144 | 105  | 745709   | 12.837 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.225 | 105  | 628921   | 12.361 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 11.558 | 105  | 663696   | 11.261 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.626 | 146  | 396672   | 10.056 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.691 | 146  | 396593   | 10.448 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.966 | 146  | 375622   | 9.138  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.902 | 225  | 293286   | 10.050 | ppbv   | 100      |
| 79) Naphthalene               | 13.533 | 128  | 648444   | 14.936 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.478 | 142  | 313133   | 19.488 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.458 | 180  | 313601   | 13.033 | ppbv   | 100      |

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

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 Response via : Initial Calibration

