

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL013023\  
 Data File : VL040133.D  
 Acq On : 30 Jan 2023 15:16  
 Operator : SY/MD  
 Sample : N4955-13 0.45  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LOD-MDL-AIR-01-QT4-2022

Quant Time: Jan 31 05:26:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 31 05:24:57 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/31/2023  
 Supervised By : Mahesh Dadoda 01/31/2023

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 5.179  | 49    | 866289   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 6.645  | 114   | 2274813  | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 11.462 | 117   | 2050601  | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 13.774 | 95    | 1672892  | 9.816    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.713  | 85    | 80650    | 0.531    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 2.661  | 51    | 49906    | 0.480    | ppbv   | 95       |
| 4) Chloromethane              | 2.796  | 50    | 31151    | 0.485    | ppbv # | 82       |
| 5) Vinyl Chloride             | 2.903  | 62    | 23540    | 0.432    | ppbv   | 93       |
| 6) Bromomethane               | 3.105  | 94    | 9310m    | 0.469    | ppbv   |          |
| 7) Chloroethane               | 3.182  | 64    | 9753     | 0.469    | ppbv   | 98       |
| 8) Dichlorotetrafluoroethane  | 2.841  | 85    | 66845    | 0.471    | ppbv   | 97       |
| 9) Propene                    | 2.681  | 41    | 19457    | 0.451    | ppbv   | 91       |
| 10) Heptane                   | 7.571  | 43    | 43048m   | 0.433    | ppbv   |          |
| 11) Trichlorofluoromethane    | 3.549  | 101   | 65948    | 0.435    | ppbv   | 97       |
| 12) 1,1,2-Trichlorotrifluo... | 4.050  | 101   | 47883    | 0.420    | ppbv   | 94       |
| 13) Ethanol                   | 3.240  | 45    | 1658m    | 0.417    | ppbv   |          |
| 14) Bromoethene               | 3.353  | 108   | 18410    | 0.435    | ppbv # | 96       |
| 15) Acetone                   | 3.468  | 43    | 49130m   | 0.473    | ppbv   |          |
| 16) 1,3-Butadiene             | 2.973  | 39    | 22106m   | 0.456    | ppbv   |          |
| 17) tert-Butyl alcohol        | 3.883  | 59    | 45668    | 0.472    | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 3.870  | 96    | 22351m   | 0.451    | ppbv   |          |
| 19) Isopropyl Alcohol         | 3.581  | 45    | 24890    | 0.490    | ppbv # | 92       |
| 20) Methylene Chloride        | 3.919  | 84    | 22315    | 0.487    | ppbv # | 94       |
| 21) Allyl Chloride            | 3.983  | 41    | 28361    | 0.425    | ppbv   | 97       |
| 22) trans-1,2-Dichloroethene  | 4.436  | 96    | 21929m   | 0.433    | ppbv   |          |
| 23) Vinyl Acetate             | 4.620  | 43    | 15352m   | 0.456    | ppbv   |          |
| 24) 1,1-Dichloroethane        | 4.549  | 63    | 42921    | 0.421    | ppbv # | 92       |
| 25) Ethyl Acetate             | 5.205  | 43    | 83853    | 0.458    | ppbv # | 96       |
| 26) Hexane                    | 5.205  | 57    | 34932    | 0.436    | ppbv # | 87       |
| 27) Carbon Disulfide          | 4.112  | 76    | 38511m   | 0.371    | ppbv   |          |
| 28) Methyl tert-Butyl Ether   | 4.591  | 73    | 40179m   | 0.446    | ppbv   |          |
| 29) Chloroform                | 5.263  | 83    | 66716    | 0.521    | ppbv   | 91       |
| 30) Cyclohexane               | 6.587  | 84    | 28250m   | 0.444    | ppbv   |          |
| 31) cis-1,2-Dichloroethene    | 5.066  | 61    | 34866    | 0.450    | ppbv   | 89       |
| 32) 1,1,1-Trichloroethane     | 5.996  | 97    | 62376m   | 0.479    | ppbv   |          |
| 34) 2-Butanone                | 4.790  | 43    | 46863    | 0.436    | ppbv   | 95       |
| 35) Carbon Tetrachloride      | 6.484  | 117   | 59262    | 0.461    | ppbv # | 91       |
| 36) Benzene                   | 6.362  | 78    | 74724    | 0.444    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 5.793  | 62    | 49532    | 0.458    | ppbv   | 98       |
| 38) Trichloroethene           | 7.288  | 130   | 41387    | 0.433    | ppbv   | 88       |
| 39) 1,2-Dichloropropane       | 7.063  | 63    | 30681m   | 0.466    | ppbv   |          |
| 40) 1,4-Dioxane               | 7.317  | 88    | 12812m   | 0.490    | ppbv   |          |
| 41) Tetrahydrofuran           | 5.574  | 42    | 24042    | 0.387    | ppbv   | 91       |
| 42) Bromodichloromethane      | 7.246  | 83    | 61731    | 0.422    | ppbv   | 99       |
| 43) Methyl Methacrylate       | 7.468  | 69    | 25863m   | 0.419    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane    | 7.320  | 57    | 120126   | 0.429    | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 8.706  | 75    | 18984m   | 0.345    | ppbv   |          |

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 MSVOA\_L  
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 LOD-MDL-AIR-01-QT4-2022

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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL011623AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2  
 QLast Update : Tue Jan 31 05:24:57 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/31/2023  
 Supervised By : Mahesh Dadoda 01/31/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 8.140  | 75   | 29416m   | 0.391 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 8.896  | 97   | 34001m   | 0.490 | ppbv   |          |
| 48) Dibromochloromethane      | 9.703  | 129  | 43657    | 0.392 | ppbv   | 92       |
| 49) Bromoform                 | 12.407 | 173  | 32829m   | 0.382 | ppbv   |          |
| 50) 4-Methyl-2-Pentanone      | 8.192  | 43   | 66831    | 0.395 | ppbv   | 99       |
| 51) 2-Hexanone                | 9.574  | 43   | 45687m   | 0.356 | ppbv   |          |
| 52) Tetrachloroethene         | 10.613 | 164  | 26554m   | 0.482 | ppbv   |          |
| 53) Toluene                   | 9.217  | 91   | 71417    | 0.398 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 9.999  | 107  | 33932m   | 0.468 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 11.507 | 131  | 38257m   | 0.479 | ppbv   |          |
| 57) Chlorobenzene             | 11.520 | 112  | 66744    | 0.477 | ppbv   | 96       |
| 58) Ethyl Benzene             | 12.082 | 91   | 96045m   | 0.420 | ppbv   |          |
| 59) m/p-Xylene                | 12.362 | 91   | 171537m  | 0.834 | ppbv   |          |
| 60) o-Xylene                  | 13.050 | 91   | 81183m   | 0.416 | ppbv   |          |
| 61) Styrene                   | 12.896 | 104  | 36423m   | 0.358 | ppbv   |          |
| 62) Isopropylbenzene          | 14.024 | 105  | 127889m  | 0.455 | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 13.053 | 83   | 33875m   | 0.478 | ppbv   |          |
| 64) n-propylbenzene           | 14.909 | 120  | 31592m   | 0.452 | ppbv   |          |
| 65) tert-Butylbenzene         | 16.092 | 119  | 101128   | 0.420 | ppbv   | 93       |
| 66) Benzyl Chloride           | 16.336 | 91   | 6028m    | 0.367 | ppbv   |          |
| 67) sec-Butylbenzene          | 16.642 | 105  | 142613m  | 0.418 | ppbv   |          |
| 69) p-Isopropyltoluene        | 16.998 | 119  | 102539   | 0.383 | ppbv   | 95       |
| 70) n-Butylbenzene            | 17.892 | 91   | 113103   | 0.391 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 14.802 | 91   | 91029m   | 0.421 | ppbv   |          |
| 72) 4-Ethyltoluene            | 15.188 | 105  | 83940    | 0.387 | ppbv # | 96       |
| 73) 1,3,5-Trimethylbenzene    | 15.352 | 105  | 75650    | 0.388 | ppbv   | 94       |
| 74) 1,2,4-Trimethylbenzene    | 16.105 | 105  | 93840m   | 0.434 | ppbv   |          |
| 75) 1,3-Dichlorobenzene       | 16.336 | 146  | 53360m   | 0.444 | ppbv   |          |
| 76) 1,4-Dichlorobenzene       | 16.468 | 146  | 53351m   | 0.452 | ppbv   |          |
| 77) 1,2-Dichlorobenzene       | 17.143 | 146  | 50710m   | 0.442 | ppbv   |          |
| 78) Hexachloro-1,3-Butadiene  | 22.635 | 225  | 43165m   | 0.513 | ppbv   |          |
| 79) Naphthalene               | 21.391 | 128  | 44713m   | 0.361 | ppbv   |          |
| 80) Naphthalene,2-methyl-     | 24.387 | 142  | 10716m   | 0.257 | ppbv   |          |
| 81) 1,2,4-Trichlorobenzene    | 21.156 | 180  | 27828m   | 0.365 | ppbv   |          |

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

## Manual Integrations

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QLast Update : Tue Jan 31 05:24:57 2023  
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