

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042861.D  
 Acq On : 13 Aug 2025 20:49  
 Operator : SY/MD  
 Sample : Q2834-01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:22:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.800  | 49    | 126603   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.975  | 114   | 371881   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.898  | 117   | 316310   | 10.000   | ppbv   | 0.00     |
|                             |        |       |          |          |        |          |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.390 | 95    | 247433   | 10.430   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 104.300% |
|                             |        |       |          |          |        |          |
| Target Compounds            |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane  | 1.502  | 85    | 7873     | 0.424    | ppbv   | 98       |
| 3) Chlorodifluoromethane    | 1.479  | 51    | 10823m   | 0.528    | ppbv   |          |
| 4) Chloromethane            | 1.534  | 50    | 3451     | 0.461    | ppbv   | 95       |
| 9) Propene                  | 1.489  | 41    | 7453     | 0.841    | ppbv   | 89       |
| 10) Heptane                 | 5.001  | 43    | 8615m    | 0.363    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.884  | 101   | 4312     | 0.236    | ppbv   | 85       |
| 13) Ethanol                 | 1.729  | 45    | 59666    | 73.674   | ppbv   | 94       |
| 15) Acetone                 | 1.842  | 43    | 492169   | 29.388   | ppbv   | 99       |
| 17) tert-Butyl alcohol      | 2.052  | 59    | 4433     | 0.223    | ppbv # | 71       |
| 19) Isopropyl Alcohol       | 1.894  | 45    | 63612    | 6.359    | ppbv # | 1        |
| 20) Methylene Chloride      | 2.068  | 84    | 55916    | 7.970    | ppbv   | 89       |
| 26) Hexane                  | 2.836  | 57    | 65075    | 3.478    | ppbv # | 55       |
| 29) Chloroform              | 2.865  | 83    | 3856m    | 0.144    | ppbv   |          |
| 30) Cyclohexane             | 3.871  | 84    | 3194m    | 0.195    | ppbv   |          |
| 34) 2-Butanone              | 2.567  | 43    | 51523    | 2.052    | ppbv   | 99       |
| 35) Carbon Tetrachloride    | 3.771  | 117   | 1901m    | 0.074    | ppbv   |          |
| 36) Benzene                 | 3.667  | 78    | 9832     | 0.276    | ppbv   | 98       |
| 37) 1,2-Dichloroethane      | 3.230  | 62    | 6821     | 0.367    | ppbv   | 98       |
| 41) Tetrahydrofuran         | 3.072  | 42    | 8649m    | 0.618    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane  | 4.658  | 57    | 24827    | 0.411    | ppbv # | 82       |
| 50) 4-Methyl-2-Pentanone    | 5.787  | 43    | 23984m   | 0.707    | ppbv   |          |
| 52) Tetrachloroethene       | 8.247  | 164   | 4663m    | 0.362    | ppbv   |          |
| 53) Toluene                 | 6.953  | 91    | 197342m  | 4.661    | ppbv   |          |
| 58) Ethyl Benzene           | 9.370  | 91    | 20426    | 0.366    | ppbv   | 97       |
| 59) m/p-Xylene              | 9.545  | 91    | 71285    | 1.629    | ppbv # | 100      |
| 60) o-Xylene                | 9.976  | 91    | 35539    | 0.807    | ppbv   | 97       |
| 61) Styrene                 | 9.885  | 104   | 10873    | 0.527    | ppbv   | 95       |
| 64) n-propylbenzene         | 11.002 | 120   | 3809     | 0.232    | ppbv   | 80       |
| 65) tert-Butylbenzene       | 11.549 | 119   | 11019    | 0.194    | ppbv # | 41       |
| 69) p-Isopropyltoluene      | 11.937 | 119   | 38968    | 0.570    | ppbv   | 95       |
| 72) 4-Ethyltoluene          | 11.134 | 105   | 20240    | 0.379    | ppbv # | 56       |
| 73) 1,3,5-Trimethylbenzene  | 11.215 | 105   | 31153    | 0.687    | ppbv   | 90       |
| 74) 1,2,4-Trimethylbenzene  | 11.545 | 105   | 90034    | 1.808    | ppbv # | 61       |
| 79) Naphthalene             | 13.523 | 128   | 15027    | 0.333    | ppbv # | 87       |
| -----                       |        |       |          |          |        |          |

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

## Manual Integrations

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