

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110425\
 Data File : VL043147.D
 Acq On : 04 Nov 2025 10:19
 Operator : SY/MD
 Sample : Q3530-14 0.5 LOQ
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/05/2025
 Supervised By :Mahesh Dadoda 11/07/2025

Quant Time: Nov 05 06:28:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	120529	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	382307	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	333519	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	258090	9.956	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	9995	0.583	ppbv	97
3) Chlorodifluoromethane	1.476	51	10860	0.586	ppbv	96
4) Chloromethane	1.535	50	3602	0.531	ppbv	96
5) Vinyl Chloride	1.580	62	3209	0.482	ppbv #	87
6) Bromomethane	1.671	94	2352	0.644	ppbv	87
7) Chloroethane	1.706	64	1612	0.592	ppbv #	82
8) Dichlorotetrafluoroethane	1.554	85	7850	0.567	ppbv	88
9) Propene	1.483	41	4172	0.507	ppbv	97
10) Heptane	4.975	43	10869m	0.459	ppbv	
11) Trichlorofluoromethane	1.878	101	10486	0.626	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.140	101	7981	0.591	ppbv	92
13) Ethanol	1.722	45	2044	0.672	ppbv	92
14) Bromoethene	1.784	108	2839	0.566	ppbv #	88
15) Acetone	1.836	43	11463	0.706	ppbv	97
16) 1,3-Butadiene	1.609	39	4106	0.530	ppbv	90
17) tert-Butyl alcohol	2.043	59	12635	0.567	ppbv #	89
18) 1,1-Dichloroethene	2.033	96	3248	0.552	ppbv	83
19) Isopropyl Alcohol	1.888	45	5759	0.569	ppbv #	75
20) Methylene Chloride	2.059	84	4569	0.712	ppbv #	92
21) Allyl Chloride	2.098	41	6473	0.541	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	4180	0.594	ppbv	85
23) Vinyl Acetate	2.460	43	15928	0.669	ppbv #	97
24) 1,1-Dichloroethane	2.409	63	7725	0.569	ppbv #	91
25) Ethyl Acetate	2.836	43	20469	0.508	ppbv #	97
26) Hexane	2.829	57	9642	0.519	ppbv	95
27) Carbon Disulfide	2.150	76	9853	0.579	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	4579m	0.542	ppbv	
29) Chloroform	2.846	83	16419	0.610	ppbv	93
30) Cyclohexane	3.859	84	8075m	0.498	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	10649	0.601	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	16589	0.592	ppbv	98
34) 2-Butanone	2.558	43	15272	0.594	ppbv	99
35) Carbon Tetrachloride	3.765	117	16936	0.616	ppbv	99
36) Benzene	3.658	78	20740	0.576	ppbv #	87
37) 1,2-Dichloroethane	3.218	62	13380	0.645	ppbv	96
38) Trichloroethene	4.548	130	8178m	0.544	ppbv	
39) 1,2-Dichloropropane	4.315	63	7613m	0.578	ppbv	
40) 1,4-Dioxane	4.600	88	3232m	0.549	ppbv	
41) Tetrahydrofuran	3.059	42	7202	0.501	ppbv	97
42) Bromodichloromethane	4.487	83	17227	0.600	ppbv	91
43) Methyl Methacrylate	4.881	69	8532m	0.467	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	30220	0.497	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	9486m	0.517	ppbv	

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Oct 15 02:12:58 2025

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	11069	0.505	ppbv #	79
47) 1,1,2-Trichloroethane	6.577	97	8190	0.576	ppbv #	89
48) Dibromochloromethane	7.387	129	13838m	0.582	ppbv	
49) Bromoform	9.477	173	11414	0.591	ppbv	97
50) 4-Methyl-2-Pentanone	5.765	43	16562m	0.467	ppbv	
51) 2-Hexanone	7.435	43	11456m	0.431	ppbv	
52) Tetrachloroethene	8.228	164	7910m	0.609	ppbv	
53) Toluene	6.930	91	20519	0.480	ppbv	97
54) 1,2-Dibromoethane	7.649	107	12338	0.554	ppbv #	75
56) 1,1,1,2-Tetrachloroethane	8.924	131	13031	0.620	ppbv #	1
57) Chlorobenzene	8.918	112	18460	0.592	ppbv	98
58) Ethyl Benzene	9.351	91	27443	0.479	ppbv	92
59) m/p-Xylene	9.552	91	45981m	1.007	ppbv	
60) o-Xylene	9.960	91	22365	0.496	ppbv	96
61) Styrene	9.869	104	8795	0.432	ppbv	99
62) Isopropylbenzene	10.539	105	43714	0.537	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	17397	0.576	ppbv	100
64) n-propylbenzene	10.986	120	11622	0.539	ppbv	97
65) tert-Butylbenzene	11.529	119	39041	0.543	ppbv	100
66) Benzyl Chloride	11.617	91	3461	0.432	ppbv #	95
67) sec-Butylbenzene	11.766	105	54508	0.534	ppbv	98
69) p-Isopropyltoluene	11.924	119	45168	0.521	ppbv	99
70) n-Butylbenzene	12.280	91	42575	0.498	ppbv	96
71) 2-Chlorotoluene	10.902	91	32021	0.515	ppbv	97
72) 4-Ethyltoluene	11.122	105	26689	0.481	ppbv	96
73) 1,3,5-Trimethylbenzene	11.199	105	22734	0.497	ppbv	95
74) 1,2,4-Trimethylbenzene	11.533	105	26535	0.519	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	18180	0.613	ppbv	97
76) 1,4-Dichlorobenzene	11.672	146	17692	0.591	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	18270	0.636	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	15428	0.694	ppbv	98
79) Naphthalene	13.514	128	22379	0.418	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	3714m	0.267	ppbv	
81) 1,2,4-Trichlorobenzene	13.439	180	9187	0.414	ppbv	96

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

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