

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3274

Instrument ID: MSVOA_N

Calibration Date(s): 09/23/2025 09/23/2025

Heated Purge: (Y/N) N

Calibration Time(s): 09:33 11:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VN087924.D		RRF050 = VN087926.D		RRF100 = VN087927.D			
		RRF150 = VN087928.D		RRF020 = VN087930.D		RRF =			
COMPOUND	RRF005	RRF050	RRF100	RRF150	RRF020	RRF	RRF	% RSD	
Dichlorodifluoromethane	0.590	0.526	0.505	0.612	0.662		0.579	11	
Chloromethane	0.662	0.532	0.497	0.602	0.672		0.593	13.1	
Vinyl Chloride	0.656	0.553	0.516	0.613	0.686		0.605	11.7	
Bromomethane	0.388	0.320	0.331	0.415	0.422		0.375	12.6	
Chloroethane	0.442	0.355	0.337	0.407	0.425		0.393	11.5	
Trichlorofluoromethane	1.169	0.883	0.816	0.987	1.068		0.985	14.3	
1,1,2-Trichlorotrifluoroethane	0.597	0.475	0.439	0.528	0.563		0.521	12.3	
1,1-Dichloroethene	0.591	0.470	0.448	0.539	0.579		0.525	12.2	
Acetone	0.417	0.298	0.274	0.326	0.417		0.346	19.4	
Carbon Disulfide	1.788	1.485	1.399	1.672	1.862		1.641	12	
Methyl tert-butyl Ether	2.047	1.907	1.811	2.256	2.237		2.052	9.6	
Methyl Acetate	0.822	0.813	0.767	0.934	0.997		0.866	11	
Methylene Chloride	0.871	0.621	0.571	0.680	0.761		0.701	16.9	
trans-1,2-Dichloroethene	0.758	0.570	0.542	0.654	0.695		0.644	13.8	
1,1-Dichloroethane	1.315	1.057	0.984	1.206	1.268		1.166	12.1	
Cyclohexane	1.163	0.827	0.758	0.951	1.020		0.944	16.9	
2-Butanone	0.557	0.479	0.453	0.554	0.602		0.529	11.6	
Carbon Tetrachloride	0.524	0.461	0.432	0.542	0.545		0.501	10.3	
cis-1,2-Dichloroethene	0.852	0.690	0.656	0.804	0.829		0.766	11.5	
Bromochloromethane	0.667	0.662	0.598	0.570	0.671		0.634	7.3	
Chloroform	1.419	1.145	1.075	1.313	1.424		1.275	12.5	
1,1,1-Trichloroethane	1.190	0.958	0.908	1.133	1.197		1.077	12.5	
Methylcyclohexane	0.445	0.444	0.435	0.562	0.521		0.482	11.8	
Benzene	1.507	1.353	1.258	1.540	1.569		1.445	9.3	
1,2-Dichloroethane	0.572	0.484	0.467	0.565	0.609		0.539	11.3	
Trichloroethene	0.367	0.315	0.304	0.367	0.374		0.345	9.6	
1,2-Dichloropropane	0.391	0.333	0.310	0.377	0.402		0.362	10.9	
Bromodichloromethane	0.581	0.521	0.489	0.597	0.616		0.561	9.6	
4-Methyl-2-Pentanone	0.532	0.537	0.509	0.614	0.623		0.563	9.2	
Toluene	0.897	0.848	0.811	0.998	0.981		0.907	9	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF005	RRF050	RRF100	RRF150	RRF020	RRF	RRF	% RSD
t-1,3-Dichloropropene	0.556	0.528	0.518	0.650	0.617		0.574	10
cis-1,3-Dichloropropene	0.593	0.544	0.534	0.659	0.651		0.596	9.8
1,1,2-Trichloroethane	0.390	0.339	0.318	0.384	0.413		0.369	10.5
2-Hexanone	0.297	0.369	0.358	0.436	0.402		0.372	14.1
Dibromochloromethane	0.425	0.402	0.391	0.479	0.472		0.434	9.2
1,2-Dibromoethane	0.395	0.362	0.341	0.420	0.435		0.390	10
Tetrachloroethene	0.308	0.279	0.264	0.328	0.345		0.305	11
Chlorobenzene	1.057	0.951	0.940	1.153	1.218		1.064	11.5
Ethyl Benzene	1.650	1.601	1.637	2.022	1.968		1.775	11.4
m/p-Xylenes	0.612	0.637	0.615	0.767	0.765		0.679	11.8
o-Xylene	0.593	0.598	0.601	0.752	0.718		0.652	11.7
Styrene	0.906	1.063	1.061	1.312	1.260		1.120	14.7
Bromoform	0.286	0.285	0.289	0.352	0.344		0.311	10.9
Isopropylbenzene	2.660	2.804	2.859	3.653	3.518		3.099	14.6
1,1,2,2-Tetrachloroethane	1.212	0.979	0.954	1.168	1.269		1.117	12.7
1,3-Dichlorobenzene	1.689	1.403	1.409	1.745	1.798		1.609	11.7
1,4-Dichlorobenzene	1.800	1.413	1.423	1.744	1.888		1.654	13.4
1,2-Dichlorobenzene	1.591	1.357	1.358	1.673	1.776		1.551	12.2
1,2-Dibromo-3-Chloropropane	0.285	0.220	0.221	0.286	0.285		0.259	13.7
1,2,4-Trichlorobenzene	0.867	0.791	0.830	1.099	0.991		0.916	13.9
1,2,3-Trichlorobenzene	0.780	0.783	0.800	1.068	1.020		0.890	15.9
1,2-Dichloroethane-d4	0.852	0.872	0.901	0.877	0.705		0.841	9.3
Dibromofluoromethane	0.376	0.372	0.385	0.376	0.305		0.363	9
Toluene-d8	1.189	1.352	1.429	1.387	1.026		1.277	13.1
4-Bromofluorobenzene	0.432	0.476	0.511	0.496	0.367		0.456	12.8

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