

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: RTPE01

Lab Code: ACE

SDG No.: Q3555

Instrument ID: MSVOA_L

Calibration Date(s): 10/14/2025 10/14/2025

Heated Purge: (Y/N) N

Calibration Time(s): 10:31 14:18

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL043105.D		RRF002 = VL043106.D		RRF001 = VL043107.D			
		RRF0.5 = VL043108.D		RRF0.1 = VL043109.D		RRF.03 = VL043110.D			
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD	
Dichlorodifluoromethane	1.278	1.481	1.527	1.545			1.422	9.4	
Chloromethane	0.500	0.579	0.621	0.640			0.563	12.9	
Vinyl Chloride	0.481	0.528	0.557	0.562	0.554	0.723	0.552	15.3	
Bromomethane	0.260	0.317	0.338	0.336			0.303	12.8	
Chloroethane	0.192	0.238	0.256	0.261			0.226	16	
Tetrahydrofuran	0.343	0.384	0.394	0.427			0.376	10.3	
Trichlorofluoromethane	1.242	1.477	1.459	1.510			1.391	9.1	
1,1,2-Trichlorotrifluoroethane	0.976	1.191	1.220	1.215			1.120	11	
Dichlorotetrafluoroethane	1.040	1.230	1.265	1.175			1.149	9.3	
tert-Butyl alcohol	1.689	1.934	2.047	2.010			1.850	11.3	
Heptane	1.803	2.032	2.151	2.184			1.964	11.7	
1,1-Dichloroethene	0.437	0.512	0.539	0.519			0.488	10.1	
Acetone	1.091	1.508	1.522	1.561			1.348	18.6	
Carbon Disulfide	1.315	1.505	1.540	1.423			1.411	8.3	
Methyl tert-Butyl Ether	0.587	0.769	0.767	0.742			0.701	11.9	
Methylene Chloride	0.406	0.508	0.612	0.738			0.533	27	
trans-1,2-Dichloroethene	0.511	0.594	0.696	0.609			0.583	13.4	
1,1-Dichloroethane	1.031	1.190	1.237	1.169			1.127	9	
Cyclohexane	1.214	1.390	1.448	1.493			1.344	10.5	
2-Butanone	0.606	0.707	0.708	0.753			0.672	10.7	
Carbon Tetrachloride	0.649	0.745	0.743	0.710	0.761	0.752	0.719	6	
cis-1,2-Dichloroethene	1.405	1.516	1.594	1.491			1.471	6.6	
Chloroform	2.030	2.296	2.397	2.437			2.232	9.2	
1,1,1-Trichloroethane	2.136	2.424	2.439	2.407	2.605	2.165	2.324	8.3	
2,2,4-Trimethylpentane	1.460	1.683	1.706	1.695			1.589	9.2	
Benzene	0.871	1.023	0.980	0.974			0.942	7.6	
1,2-Dichloroethane	0.485	0.565	0.571	0.589			0.543	8.5	
Trichloroethene	0.342	0.398	0.402	0.401	0.421	0.460	0.393	11.4	
1,2-Dichloropropane	0.317	0.371	0.370	0.359			0.344	9	
Bromodichloromethane	0.697	0.791	0.775	0.779			0.751	5.7	

* 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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4-Methyl-2-Pentanone	0.873	0.974	0.989	0.969			0.928	7.6
Toluene	1.036	1.176	1.162	1.212			1.118	8.3
t-1,3-Dichloropropene	0.462	0.506	0.502	0.478			0.480	4.9
cis-1,3-Dichloropropene	0.546	0.603	0.590	0.593			0.573	5.3
1,1,2-Trichloroethane	0.338	0.384	0.383	0.416			0.372	9.1
Dibromochloromethane	0.589	0.667	0.650	0.619			0.622	6
1,2-Dibromoethane	0.533	0.617	0.586	0.570	0.662		0.582	8.8
Tetrachloroethene	0.312	0.353	0.366	0.349	0.345	0.354	0.340	7.3
Chlorobenzene	0.849	1.000	1.009	1.010			0.936	10.5
Ethyl Benzene	1.599	1.824	1.815	1.801			1.716	7.8
m/p-Xylene	1.238	1.476	1.457	1.463			1.369	9.7
o-Xylene	1.224	1.454	1.471	1.433			1.352	10.3
Styrene	0.578	0.664	0.649	0.597			0.610	7.2
Bromoform	0.487	0.544	0.515	0.503			0.505	5.1
1,1,2,2-Tetrachloroethane	0.777	0.933	0.924	0.900	1.019	1.029	0.905	11.8
2-Chlorotoluene	1.698	2.018	1.997	1.959			1.863	9.5
1,3,5-Trimethylbenzene	1.261	1.477	1.466	1.434			1.371	9
1,2,4-Trimethylbenzene	1.331	1.664	1.707	1.691			1.534	13.7
1,3-Dichlorobenzene	0.818	1.000	0.956	0.903			0.890	10.6
1,4-Dichlorobenzene	0.823	0.971	0.957	0.957			0.897	10
1,2-Dichlorobenzene	0.766	0.914	0.954	0.944			0.861	12.4
1,2,4-Trichlorobenzene	0.638	0.803	0.726	0.553			0.666	14.9
Hexachloro-1,3-Butadiene	0.555	0.746	0.764	0.751			0.667	18.1
1,3-Butadiene	0.552	0.649	0.700	0.780			0.642	16.1
Naphthalene	1.580	1.971	1.766	1.532	1.265		1.604	15
4-Ethyltoluene	1.530	1.805	1.761	1.741			1.662	9
1-Bromo-4-Fluorobenzene	0.781	0.779	0.770	0.768	0.780	0.765	0.777	1.4
Hexane	1.406	1.548	1.677	1.753			1.540	11.8
Allyl Chloride	0.910	1.040	1.049	1.097			0.993	9.9
1,4-Dioxane	141.025	161.866	165.909	166.217			154.080	9.6

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Methyl Methacrylate	0.450	0.493	0.511	0.500			0.478	6.9

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