

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3058

Instrument ID: MSVOA_Y

Calibration Date(s): 09/08/2025 09/08/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 10:00 12:08

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

LAB FILE ID:		RRF005 = VY023303.D		RRF010 = VY023304.D		RRF020 = VY023305.D			
		RRF050 = VY023306.D		RRF100 = VY023307.D		RRF150 = VY023308.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.471	0.447	0.434	0.365	0.345	0.345	0.401	13.9	
Chloromethane	0.661	0.637	0.604	0.534	0.507	0.502	0.574	12	
Vinyl Chloride	0.800	0.786	0.757	0.695	0.653	0.647	0.723	9.3	
Bromomethane	0.709	0.630	0.611	0.533	0.524	0.537	0.590	12.4	
Chloroethane	0.544	0.529	0.504	0.471	0.447	0.441	0.489	8.8	
Trichlorofluoromethane	0.990	0.998	0.953	0.870	0.843	0.822	0.913	8.4	
1,1,2-Trichlorotrifluoroethane	0.556	0.524	0.511	0.470	0.446	0.437	0.491	9.6	
1,1-Dichloroethene	0.501	0.504	0.481	0.458	0.446	0.443	0.472	5.7	
Acetone	0.112	0.110	0.096	0.100	0.095	0.087	0.100	9.3	
Carbon Disulfide	1.643	1.589	1.553	1.452	1.383	1.351	1.495	7.9	
Methyl tert-butyl Ether	1.070	1.130	1.123	1.121	1.121	1.096	1.110	2	
Methyl Acetate	0.255	0.275	0.254	0.233	0.235	0.220	0.245	8.1	
Methylene Chloride	0.654	0.569	0.542	0.503	0.478	0.467	0.535	13	
trans-1,2-Dichloroethene	0.555	0.544	0.542	0.519	0.506	0.498	0.528	4.4	
1,1-Dichloroethane	0.918	0.913	0.899	0.844	0.823	0.816	0.869	5.3	
Cyclohexane	0.882	0.799	0.790	0.728	0.711	0.704	0.769	8.9	
2-Butanone	0.123	0.130	0.126	0.122	0.123	0.116	0.123	3.7	
Carbon Tetrachloride	0.513	0.525	0.506	0.503	0.483	0.475	0.501	3.7	
cis-1,2-Dichloroethene	0.595	0.617	0.606	0.592	0.590	0.586	0.597	2	
Bromochloromethane	0.376	0.357	0.355	0.329	0.317	0.317	0.342	7.1	
Chloroform	0.994	0.996	0.961	0.907	0.878	0.865	0.934	6.2	
1,1,1-Trichloroethane	0.885	0.889	0.860	0.807	0.785	0.778	0.834	6	
Methylcyclohexane	0.529	0.531	0.559	0.580	0.571	0.571	0.557	3.9	
Benzene	1.380	1.361	1.391	1.369	1.318	1.299	1.353	2.7	
1,2-Dichloroethane	0.357	0.367	0.352	0.344	0.330	0.318	0.344	5.2	
Trichloroethene	0.387	0.378	0.388	0.381	0.369	0.359	0.377	3	
1,2-Dichloropropane	0.313	0.315	0.316	0.305	0.297	0.288	0.306	3.6	
Bromodichloromethane	0.476	0.487	0.474	0.474	0.453	0.445	0.468	3.4	
4-Methyl-2-Pentanone	0.156	0.170	0.173	0.181	0.181	0.173	0.172	5.3	
Toluene	0.794	0.831	0.885	0.896	0.879	0.868	0.859	4.5	

* 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	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.374	0.395	0.401	0.420	0.417	0.410	0.403	4.2	
cis-1,3-Dichloropropene	0.450	0.477	0.492	0.497	0.491	0.483	0.482	3.6	
1,1,2-Trichloroethane	0.250	0.256	0.250	0.250	0.244	0.235	0.248	3	
2-Hexanone	0.106	0.116	0.120	0.126	0.127	0.120	0.119	6.6	
Dibromochloromethane	0.334	0.340	0.338	0.343	0.334	0.326	0.336	1.8	
1,2-Dibromoethane	0.232	0.234	0.236	0.235	0.231	0.223	0.232	2	
Tetrachloroethene	0.534	0.483	0.546	0.512	0.472	0.442	0.498	7.9	
Chlorobenzene	1.113	1.087	1.124	1.106	1.081	1.061	1.095	2.1	
Ethyl Benzene	1.664	1.694	1.828	1.874	1.848	1.828	1.790	4.9	
m/p-Xylenes	0.655	0.682	0.738	0.753	0.735	0.736	0.717	5.4	
o-Xylene	0.587	0.613	0.676	0.703	0.699	0.701	0.663	7.6	
Styrene	0.925	1.020	1.127	1.187	1.172	1.165	1.099	9.5	
Bromoform	0.232	0.230	0.229	0.231	0.228	0.223	0.229	1.5	
Isopropylbenzene	3.112	3.173	3.434	3.542	3.466	3.482	3.368	5.3	
1,1,2,2-Tetrachloroethane	0.564	0.627	0.549	0.557	0.554	0.541	0.565	5.6	
1,3-Dichlorobenzene	1.712	1.672	1.704	1.742	1.688	1.699	1.703	1.4	
1,4-Dichlorobenzene	1.775	1.681	1.711	1.695	1.632	1.624	1.686	3.3	
1,2-Dichlorobenzene	1.508	1.480	1.491	1.513	1.467	1.448	1.485	1.7	
1,2-Dibromo-3-Chloropropane	0.096	0.089	0.089	0.087	0.087	0.084	0.089	4.4	
1,2,4-Trichlorobenzene	0.786	0.797	0.844	0.905	0.924	0.940	0.866	7.7	
1,2,3-Trichlorobenzene	0.697	0.704	0.733	0.787	0.786	0.805	0.752	6.2	
1,2-Dichloroethane-d4	0.472	0.456	0.455	0.430	0.417	0.407	0.439	5.8	
Dibromofluoromethane	0.300	0.313	0.311	0.312	0.300	0.300	0.306	2.2	
Toluene-d8	1.121	1.125	1.176	1.187	1.155	1.159	1.154	2.3	
4-Bromofluorobenzene	0.355	0.339	0.363	0.378	0.373	0.371	0.363	4	

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