

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: FIRS02

Lab Code: ACE

SDG No.: Q2820

Instrument ID: MSVOA_Y

Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 14:54 16:47

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

LAB FILE ID:		RRF005 = VY023050.D		RRF010 = VY023051.D		RRF020 = VY023052.D			
		RRF050 = VY023053.D		RRF100 = VY023054.D		RRF150 = VY023055.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.487	0.463	0.460	0.348	0.337	0.354	0.408	16.8	
Chloromethane	0.699	0.707	0.736	0.607	0.603	0.613	0.661	9	
Vinyl Chloride	0.868	0.870	0.875	0.769	0.754	0.766	0.817	7.3	
Bromomethane	0.673	0.638	0.653	0.540	0.576	0.581	0.610	8.5	
Chloroethane	0.585	0.567	0.569	0.515	0.508	0.516	0.543	6.2	
Trichlorofluoromethane	1.059	1.044	1.048	0.937	0.900	0.974	0.994	6.7	
1,1,2-Trichlorotrifluoroethane	0.522	0.519	0.521	0.462	0.445	0.472	0.490	7	
1,1-Dichloroethene	0.492	0.505	0.502	0.463	0.454	0.475	0.482	4.4	
Acetone	0.110	0.111	0.106	0.103	0.094	0.096	0.103	6.9	
Carbon Disulfide	1.656	1.663	1.662	1.491	1.453	1.501	1.571	6.3	
Methyl tert-butyl Ether	1.181	1.268	1.296	1.236	1.202	1.308	1.249	4.1	
Methyl Acetate	0.299	0.308	0.325	0.322	0.280	0.309	0.307	5.4	
Methylene Chloride	0.861	0.706	0.606	0.510	0.511	0.524	0.620	22.7	
trans-1,2-Dichloroethene	0.535	0.561	0.559	0.523	0.520	0.550	0.541	3.3	
1,1-Dichloroethane	0.929	0.969	0.984	0.918	0.907	0.945	0.942	3.1	
Cyclohexane	1.040	0.934	0.905	0.816	0.792	0.838	0.888	10.4	
2-Butanone	0.135	0.152	0.143	0.142	0.129	0.142	0.140	5.5	
Carbon Tetrachloride	0.490	0.486	0.505	0.466	0.466	0.484	0.483	3.1	
cis-1,2-Dichloroethene	0.621	0.624	0.645	0.607	0.610	0.648	0.626	2.8	
Bromochloromethane	0.367	0.379	0.393	0.365	0.367	0.371	0.374	2.9	
Chloroform	0.969	0.997	1.002	0.943	0.936	0.981	0.971	2.8	
1,1,1-Trichloroethane	0.862	0.877	0.899	0.837	0.833	0.864	0.862	2.8	
Methylcyclohexane	0.574	0.579	0.605	0.566	0.575	0.614	0.586	3.3	
Benzene	1.354	1.375	1.430	1.334	1.334	1.395	1.370	2.8	
1,2-Dichloroethane	0.353	0.370	0.371	0.347	0.339	0.359	0.356	3.6	
Trichloroethene	0.354	0.355	0.373	0.341	0.342	0.359	0.354	3.3	
1,2-Dichloropropane	0.303	0.321	0.326	0.309	0.309	0.325	0.315	3.1	
Bromodichloromethane	0.446	0.464	0.489	0.459	0.456	0.481	0.466	3.5	
4-Methyl-2-Pentanone	0.168	0.201	0.200	0.199	0.190	0.211	0.195	7.7	
Toluene	0.817	0.851	0.902	0.858	0.873	0.921	0.870	4.3	

* 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	0.377	0.410	0.435	0.420	0.428	0.459	0.422	6.5	
cis-1,3-Dichloropropene	0.457	0.486	0.513	0.496	0.500	0.540	0.499	5.5	
1,1,2-Trichloroethane	0.230	0.242	0.253	0.239	0.236	0.254	0.242	4	
2-Hexanone	0.112	0.134	0.137	0.136	0.131	0.146	0.133	8.6	
Dibromochloromethane	0.300	0.317	0.326	0.318	0.316	0.340	0.320	4.1	
1,2-Dibromoethane	0.206	0.232	0.237	0.226	0.222	0.242	0.228	5.6	
Tetrachloroethene	0.477	0.463	0.475	0.435	0.393	0.437	0.446	7.2	
Chlorobenzene	1.062	1.070	1.116	1.055	1.057	1.111	1.079	2.6	
Ethyl Benzene	1.775	1.795	1.894	1.859	1.858	1.956	1.856	3.6	
m/p-Xylenes	0.676	0.699	0.745	0.718	0.737	0.774	0.725	4.8	
o-Xylene	0.605	0.643	0.696	0.686	0.702	0.742	0.679	7.1	
Styrene	0.945	1.023	1.140	1.123	1.176	1.254	1.110	10	
Bromoform	0.197	0.213	0.216	0.214	0.213	0.231	0.214	5	
Isopropylbenzene	3.420	3.483	3.602	3.505	3.514	3.650	3.529	2.4	
1,1,2,2-Tetrachloroethane	0.584	0.647	0.605	0.585	0.581	0.613	0.603	4.2	
1,3-Dichlorobenzene	1.600	1.642	1.701	1.610	1.656	1.752	1.660	3.5	
1,4-Dichlorobenzene	1.687	1.657	1.680	1.601	1.597	1.660	1.647	2.3	
1,2-Dichlorobenzene	1.410	1.472	1.496	1.420	1.438	1.499	1.456	2.7	
1,2-Dibromo-3-Chloropropane	0.093	0.096	0.094	0.095	0.086	0.098	0.094	4.3	
1,2,4-Trichlorobenzene	0.788	0.839	0.881	0.847	0.856	0.955	0.861	6.4	
1,2,3-Trichlorobenzene	0.685	0.733	0.752	0.720	0.727	0.834	0.742	6.7	
1,2-Dichloroethane-d4	0.491	0.490	0.482	0.462	0.472	0.462	0.477	2.7	
Dibromofluoromethane	0.290	0.299	0.301	0.293	0.307	0.305	0.299	2.1	
Toluene-d8	1.151	1.157	1.173	1.143	1.202	1.186	1.169	1.9	
4-Bromofluorobenzene	0.358	0.367	0.367	0.370	0.399	0.394	0.376	4.4	

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