284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: GENV01

Lab Code: ACE | SDG No.: Q3784

Instrument ID: MSVOA_W | Calibration Date(s): 12/03/2025 12/03/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 11:32 13:20

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

LAB FILE ID: RRF005 = VW032563.D RRF010 = VW032564.D RRF020 = VW032565.D
RRF050 = VW032566.D RRF100 = VW032567.D RRF150 = VW032568.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.348	0.337	0.318	0.271	0.286	0.297	0.309	9.7
Chloromethane	0.708	0.617	0.544	0.487	0.510	0.547	0.569	14.3
Vinyl Chloride	0.788	0.749	0.691	0.633	0.634	0.647	0.690	9.5
Bromomethane	0.521	0.498	0.453	0.417	0.425	0.436	0.458	9.2
Chloroethane	0.488	0.471	0.438	0.420	0.419	0.439	0.446	6.3
Trichlorofluoromethane	0.519	0.561	0.537	0.514	0.531	0.548	0.535	3.3
1,1,2-Trichlorotrifluoroethane	0.652	0.608	0.557	0.531	0.515	0.531	0.566	9.4
Tert butyl alcohol	0.071	0.052	0.059	0.054	0.053	0.055	0.057	12.7
1,1-Dichloroethene	0.727	0.648	0.644	0.600	0.593	0.614	0.638	7.7
Acetone	0.253	0.199	0.215	0.239	0.242	0.247	0.233	9
Carbon Disulfide	2.046	1.955	1.856	1.785	1.809	1.885	1.889	5.1
Methyl tert-butyl Ether	1.163	1.121	1.191	1.201	1.220	1.236	1.189	3.5
Methyl Acetate	0.509	0.439	0.463	0.488	0.483	0.491	0.479	5.1
Methylene Chloride	1.119	0.913	0.790	0.723	0.715	0.728	0.832	19.2
trans-1,2-Dichloroethene	0.756	0.724	0.678	0.661	0.665	0.697	0.697	5.3
1,1-Dichloroethane	1.435	1.402	1.329	1.289	1.312	1.349	1.353	4.1
Cyclohexane	1.385	1.263	1.165	1.108	1.114	1.122	1.193	9.3
2-Butanone	0.299	0.257	0.296	0.307	0.309	0.323	0.298	7.5
Carbon Tetrachloride	0.479	0.491	0.459	0.449	0.449	0.470	0.466	3.6
cis-1,2-Dichloroethene	0.844	0.802	0.798	0.780	0.805	0.839	0.811	3.1
Bromochloromethane	0.542	0.650	0.610	0.614	0.615	0.614	0.608	5.8
Chloroform	1.459	1.405	1.318	1.255	1.292	1.326	1.342	5.6
1,1,1-Trichloroethane	1.044	1.055	0.952	0.920	0.922	0.952	0.974	6.2
Methylcyclohexane	0.601	0.599	0.590	0.623	0.616	0.648	0.613	3.5
Benzene	1.659	1.627	1.596	1.560	1.546	1.608	1.599	2.6
1,2-Dichloroethane	0.504	0.483	0.498	0.488	0.474	0.496	0.490	2.3
Trichloroethene	0.363	0.365	0.355	0.348	0.354	0.360	0.357	1.9
1,2-Dichloropropane	0.403	0.395	0.403	0.391	0.389	0.404	0.397	1.7
Bromodichloromethane	0.546	0.529	0.529	0.531	0.528	0.568	0.538	3
4-Methyl-2-Pentanone	0.299	0.284	0.345	0.359	0.344	0.351	0.330	9.3

* 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	$\overline{RRF}$	% RSD
Toluene	0.920	0.950	0.977	0.959	0.968	1.008	0.964	3
t-1,3-Dichloropropene	0.462	0.469	0.508	0.526	0.552	0.582	0.517	9.1
cis-1,3-Dichloropropene	0.562	0.574	0.609	0.611	0.627	0.654	0.606	5.6
1,1,2-Trichloroethane	0.319	0.299	0.309	0.305	0.300	0.313	0.308	2.6
2-Hexanone	0.200	0.194	0.242	0.263	0.252	0.260	0.235	13
Dibromochloromethane	0.339	0.333	0.338	0.339	0.361	0.359	0.345	3.5
1,2-Dibromoethane	0.290	0.283	0.299	0.295	0.288	0.301	0.293	2.4
Tetrachloroethene	0.366	0.326	0.340	0.322	0.312	0.334	0.333	5.6
Chlorobenzene	1.180	1.193	1.189	1.176	1.154	1.197	1.181	1.3
Ethyl Benzene	1.899	1.925	2.001	2.034	2.023	2.150	2.005	4.4
m/p-Xylenes	0.712	0.747	0.772	0.780	0.766	0.797	0.762	3.9
o-Xylene	0.610	0.655	0.704	0.741	0.726	0.754	0.698	7.9
Styrene	1.067	1.170	1.258	1.276	1.270	1.307	1.225	7.4
Bromoform	0.189	0.187	0.193	0.207	0.205	0.225	0.201	7.2
Isopropylbenzene	3.269	3.475	3.637	3.874	3.740	4.259	3.709	9.2
1,1,2,2-Tetrachloroethane	0.860	0.824	0.873	0.910	0.833	0.939	0.873	5.1
1,3-Dichlorobenzene	1.808	1.804	1.721	1.784	1.705	1.936	1.793	4.6
1,4-Dichlorobenzene	1.850	1.866	1.730	1.782	1.635	1.813	1.779	4.8
1,2-Dichlorobenzene	1.624	1.567	1.559	1.577	1.466	1.643	1.572	3.9
1,2-Dibromo-3-Chloropropane	0.163	0.122	0.145	0.157	0.147	0.169	0.151	11.1
1,2,4-Trichlorobenzene	0.928	0.872	0.911	0.946	0.949	1.140	0.958	9.8
1,2,3-Trichlorobenzene	0.809	0.816	0.810	0.891	0.895	0.999	0.870	8.6
1,2-Dichloroethane-d4	0.715	0.795	0.756	0.729	0.735	0.735	0.744	3.8
Dibromofluoromethane	0.300	0.350	0.329	0.332	0.327	0.336	0.329	5
Toluene-d8	1.088	1.281	1.262	1.256	1.264	1.277	1.238	6
4-Bromofluorobenzene	0.418	0.486	0.458	0.470	0.455	0.458	0.457	4.9

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