284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q2987

Instrument ID: MSVOA_X Calibration Date(s): 08/28/2025 08/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 14:07 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX047548.D RRF005 = VX047549.D RRF020 = VX047550.D
RRF050 = VX047551.D RRF100 = VX047552.D RRF150 = VX047553.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.459	0.581	0.582	0.522	0.541	0.601	0.548	9.6
Chloromethane	0.629	0.597	0.600	0.564	0.605	0.594	0.598	3.5
Vinyl Chloride	0.646	0.706	0.727	0.679	0.724	0.737	0.703	5
Ethyl Acetate	0.400	0.468	0.494	0.488	0.534	0.504	0.481	9.4
Bromomethane		0.326	0.322	0.311	0.334	0.227	0.304	14.4
Chloroethane	0.538	0.422	0.439	0.422	0.440	0.420	0.447	10.2
Trichlorofluoromethane	0.899	1.003	1.038	0.982	1.026	1.051	1.000	5.5
1,1,2-Trichlorotrifluoroethane	0.565	0.572	0.603	0.578	0.599	0.655	0.595	5.5
Tert butyl alcohol		0.069	0.068	0.069	0.076	0.071	0.071	4.5
1,1-Dichloroethene	0.617	0.608	0.640	0.616	0.655	0.654	0.631	3.3
Acrolein		0.146	0.146	0.134	0.149	0.133	0.141	5.4
Acrylonitrile	0.266	0.316	0.327	0.320	0.350	0.315	0.316	8.7
Acetone	0.372	0.310	0.299	0.280	0.303	0.261	0.304	12.5
Carbon Disulfide	1.935	1.856	1.885	1.802	1.896	1.891	1.878	2.4
Methyl tert-butyl Ether	1.857	2.027	2.130	2.089	2.251	2.012	2.061	6.4
Methyl Acetate	0.726	0.720	0.721	0.769	0.817	0.746	0.750	5.1
Methylene Chloride	0.848	0.834	0.773	0.732	0.770	0.686	0.774	7.9
trans-1,2-Dichloroethene	0.585	0.698	0.695	0.676	0.707	0.670	0.672	6.7
Vinyl Acetate	1.469	1.884	2.038	1.988	2.124	1.880	1.897	12.1
1,1-Dichloroethane	1.217	1.339	1.340	1.275	1.349	1.248	1.295	4.3
Cyclohexane		1.042	1.116	1.043	1.062	1.136	1.080	4
2-Butanone	0.369	0.394	0.415	0.400	0.437	0.385	0.400	5.9
Carbon Tetrachloride	0.580	0.503	0.550	0.516	0.537	0.566	0.542	5.4
2,2-Dichloropropane	0.865	0.858	0.944	0.931	1.021	0.996	0.936	7.1
cis-1,2-Dichloroethene	0.749	0.832	0.865	0.815	0.859	0.792	0.819	5.3
Bromochloromethane	0.480	0.630	0.589	0.565	0.583	0.505	0.559	10
Chloroform	1.247	1.358	1.391	1.308	1.365	1.240	1.318	4.8
1,1,1-Trichloroethane	0.965	1.059	1.109	1.070	1.138	1.104	1.074	5.7
Methylcyclohexane	0.487	0.533	0.574	0.542	0.575	0.669	0.563	10.9
1,1-Dichloropropene	0.428	0.487	0.508	0.487	0.502	0.519	0.488	6.6

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Benzene	1.493	1.538	1.643	1.544	1.601	1.537	1.559	3.4
1,2-Dichloroethane	0.525	0.580	0.605	0.553	0.575	0.529	0.561	5.6
Trichloroethene	0.366	0.379	0.404	0.380	0.393	0.397	0.386	3.6
1,2-Dichloropropane	0.357	0.374	0.419	0.398	0.418	0.392	0.393	6.3
Dibromomethane	0.258	0.288	0.313	0.290	0.303	0.282	0.289	6.5
Bromodichloromethane	0.531	0.604	0.626	0.588	0.616	0.582	0.591	5.7
4-Methyl-2-Pentanone	0.362	0.453	0.483	0.478	0.504	0.462	0.457	10.9
Toluene	0.847	0.953	1.018	0.956	0.981	0.947	0.950	6
t-1,3-Dichloropropene	0.419	0.500	0.555	0.558	0.597	0.566	0.533	12
cis-1,3-Dichloropropene	0.489	0.553	0.622	0.611	0.650	0.616	0.590	10
1,1,2-Trichloroethane	0.348	0.379	0.389	0.372	0.385	0.352	0.371	4.7
1,3-Dichloropropane	0.586	0.663	0.685	0.645	0.664	0.608	0.642	5.9
2-Chloroethyl Vinyl ether	0.170	0.244	0.232	0.267	0.296	0.346	0.259	23
2-Hexanone	0.248	0.291	0.337	0.328	0.347	0.323	0.312	11.8
Dibromochloromethane	0.409	0.451	0.462	0.446	0.460	0.429	0.443	4.6
1,2-Dibromoethane	0.321	0.375	0.403	0.388	0.404	0.372	0.377	8.2
Tetrachloroethene	0.286	0.340	0.355	0.330	0.345	0.353	0.335	7.6
Chlorobenzene	1.077	1.172	1.215	1.167	1.216	1.177	1.170	4.3
1,1,1,2-Tetrachloroethane	0.354	0.379	0.407	0.399	0.433	0.409	0.397	6.9
Hexachloroethane	0.436	0.525	0.545	0.565	0.635	0.667	0.562	14.6
Ethyl Benzene	1.678	1.918	2.067	1.976	2.097	2.066	1.967	8
m/p-Xylenes	0.610	0.710	0.780	0.744	0.782	0.757	0.731	8.9
o-Xylene	0.544	0.703	0.747	0.724	0.763	0.742	0.704	11.5
Styrene	0.943	1.168	1.337	1.273	1.341	1.265	1.221	12.3
Bromoform	0.258	0.288	0.313	0.305	0.334	0.315	0.302	8.6
Isopropylbenzene	2.728	3.538	3.882	3.780	4.062	4.085	3.679	13.8
1,1,2,2-Tetrachloroethane	0.962	1.172	1.209	1.184	1.274	1.177	1.163	9.1
1,2,3-Trichloropropane	0.624	0.868	0.929	0.949	1.038	0.945	0.892	15.9
Bromobenzene	0.748	0.919	0.990	0.983	1.028	0.980	0.941	10.7
n-propylbenzene	3.310	4.160	4.628	4.503	4.824	4.857	4.380	13.3

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2-Chlorotoluene	2.196	2.693	2.881	2.743	2.935	2.851	2.717	10
1,3,5-Trimethylbenzene	2.164	2.895	3.188	3.128	3.354	3.320	3.008	14.8
4-Chlorotoluene	2.649	3.163	3.326	3.222	3.422	3.344	3.188	8.8
tert-Butylbenzene	2.329	2.910	3.113	3.108	3.369	3.367	3.033	12.7
1,2,4-Trimethylbenzene	2.247	2.920	3.265	3.197	3.414	3.354	3.066	14.2
sec-Butylbenzene	2.850	3.471	3.741	3.696	3.992	4.144	3.649	12.5
p-Isopropyltoluene	2.309	2.939	3.195	3.095	3.352	3.462	3.059	13.4
1,3-Dichlorobenzene	1.435	1.763	1.858	1.773	1.873	1.825	1.755	9.3
1,4-Dichlorobenzene	1.674	1.806	1.872	1.790	1.901	1.828	1.812	4.4
n-Butylbenzene	2.221	2.617	2.855	2.834	3.098	3.313	2.823	13.5
1,2-Dichlorobenzene	1.505	1.711	1.823	1.708	1.819	1.751	1.720	6.8
1,2-Dibromo-3-Chloropropane	0.148	0.209	0.210	0.220	0.254	0.245	0.215	17.4
1,2,4-Trichlorobenzene	0.832	0.968	1.052	1.046	1.196	1.195	1.048	13.2
Hexachlorobutadiene	0.407	0.362	0.317	0.322	0.367	0.411	0.364	11
Naphthalene	2.111	2.677	3.087	3.225	3.694	3.589	3.064	19.3
1,2,3-Trichlorobenzene	0.801	0.940	0.960	0.975	1.122	1.111	0.985	12.1
1,2-Dichloroethane-d4		0.866	0.651	0.760	0.809	0.753	0.768	10.4
Dibromofluoromethane		0.377	0.285	0.342	0.358	0.353	0.343	10.2
Toluene-d8		1.326	0.999	1.199	1.243	1.247	1.203	10.2
4-Bromofluorobenzene		0.502	0.382	0.455	0.463	0.458	0.452	9.6

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