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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: NOBI03

Lab Code: ACE | SDG No.: Q2638

Instrument ID: MSVOA_Y | Calibration Date(s): 07/18/2025 07/18/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 10:08 12:49

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

LAB FILE ID: RRF005 = VY022990.D RRF010 = VY022991.D RRF020 = VY022992.D
RRF050 = VY022993.D RRF100 = VY022994.D RRF150 = VY022995.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.490	0.456	0.508	0.367	0.361	0.364	0.425	16.1
Chloromethane	0.789	0.743	0.886	0.618	0.632	0.663	0.722	14.5
Vinyl Chloride	0.938	0.939	1.131	0.825	0.825	0.829	0.915	13.1
Bromomethane	0.708	0.665	0.792	0.554	0.607	0.634	0.660	12.6
Chloroethane	0.620	0.627	0.731	0.556	0.563	0.567	0.611	10.9
Tetrahydrofuran	0.073	0.069	0.096	0.081	0.088	0.093	0.083	13
Trichlorofluoromethane	1.130	1.097	1.247	0.973	0.955	0.967	1.062	11
1,1,2-Trichlorotrifluoroethane	0.606	0.567	0.679	0.503	0.493	0.498	0.558	13.4
1,1-Dichloroethene	0.563	0.544	0.626	0.476	0.483	0.496	0.531	10.8
Acrylonitrile	0.105	0.089	0.118	0.098	0.109	0.112	0.105	9.6
Acetone	0.113	0.091	0.108	0.077	0.080	0.080	0.092	16.9
Carbon Disulfide	1.692	1.624	1.962	1.438	1.471	1.475	1.610	12.4
Methyl tert-butyl Ether	1.179	1.145	1.451	1.191	1.320	1.359	1.274	9.5
Methylene Chloride	1.478	1.041	0.933	0.607	0.594	0.575	0.871	40.9
trans-1,2-Dichloroethene	0.597	0.571	0.707	0.533	0.567	0.574	0.591	10.2
1,1-Dichloroethane	1.062	1.063	1.261	0.986	1.049	1.051	1.079	8.7
2-Butanone	0.130	0.118	0.146	0.123	0.134	0.140	0.132	7.9
Carbon Tetrachloride	0.552	0.530	0.648	0.508	0.498	0.521	0.543	10.1
2,2-Dichloropropane	0.977	0.925	1.111	0.858	0.893	0.907	0.945	9.5
cis-1,2-Dichloroethene	0.657	0.648	0.788	0.631	0.680	0.687	0.682	8.2
Chloroform	1.075	1.076	1.267	0.991	1.070	1.050	1.088	8.6
1,1,1-Trichloroethane	1.006	0.976	1.162	0.903	0.929	0.947	0.987	9.4
1,1-Dichloropropene	0.505	0.479	0.600	0.472	0.462	0.480	0.500	10.2
Benzene	1.484	1.421	1.776	1.411	1.453	1.479	1.504	9.1
1,2-Dichloroethane	0.361	0.342	0.434	0.358	0.375	0.376	0.374	8.5
Trichloroethene	0.402	0.374	0.450	0.365	0.361	0.367	0.386	8.9
1,2-Dichloropropane	0.352	0.327	0.414	0.327	0.342	0.346	0.351	9.2
Dibromomethane	0.176	0.162	0.209	0.174	0.182	0.186	0.182	8.8
Bromodichloromethane	0.487	0.463	0.588	0.473	0.501	0.501	0.502	8.9
4-Methyl-2-Pentanone	0.150	0.155	0.212	0.191	0.200	0.214	0.187	15

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Toluene	0.865	0.868	1.088	0.892	0.939	0.960	0.935	9
t-1,3-Dichloropropene	0.383	0.376	0.493	0.414	0.452	0.467	0.431	10.9
cis-1,3-Dichloropropene	0.478	0.464	0.605	0.492	0.528	0.549	0.519	10.1
1,1,2-Trichloroethane	0.225	0.213	0.274	0.228	0.243	0.249	0.239	9
1,3-Dichloropropane	0.386	0.366	0.477	0.393	0.422	0.430	0.412	9.6
2-Hexanone	0.100	0.100	0.136	0.127	0.133	0.144	0.123	15.4
Dibromochloromethane	0.284	0.275	0.359	0.303	0.322	0.331	0.312	10
1,2-Dibromoethane	0.197	0.193	0.248	0.210	0.223	0.229	0.217	9.6
Tetrachloroethene	0.555	0.540	0.564	0.513	0.474	0.421	0.511	10.7
Chlorobenzene	1.151	1.151	1.356	1.114	1.145	1.163	1.180	7.5
1,1,1,2-Tetrachloroethane	0.399	0.383	0.457	0.376	0.394	0.406	0.402	7.2
Ethyl Benzene	1.993	1.951	2.413	2.007	2.064	2.119	2.091	8
m/p-Xylenes	0.755	0.736	0.928	0.772	0.802	0.820	0.802	8.6
o-Xylene	0.676	0.679	0.859	0.713	0.759	0.781	0.744	9.4
Styrene	1.060	1.085	1.399	1.188	1.268	1.316	1.219	10.9
Bromoform	0.186	0.183	0.223	0.194	0.215	0.226	0.204	9.4
Isopropylbenzene	4.176	4.073	5.014	4.052	3.914	4.206	4.239	9.3
1,1,2,2-Tetrachloroethane	0.558	0.561	0.749	0.560	0.582	0.671	0.613	12.9
1,2,3-Trichloropropane	0.616	0.599	0.713	0.596	0.580	0.633	0.623	7.7
Bromobenzene	0.909	0.863	1.063	0.870	0.879	0.932	0.919	8.1
n-propylbenzene	4.986	4.856	6.011	4.862	4.651	4.923	5.048	9.6
2-Chlorotoluene	2.819	2.740	3.339	2.682	2.657	2.797	2.839	8.9
1,3,5-Trimethylbenzene	3.245	3.172	3.924	3.210	3.172	3.338	3.343	8.7
4-Chlorotoluene	2.826	2.738	3.331	2.730	2.704	2.851	2.864	8.3
tert-Butylbenzene	2.997	2.802	3.547	2.928	2.833	3.014	3.020	9
1,2,4-Trimethylbenzene	3.148	3.060	3.852	3.171	3.176	3.340	3.291	8.8
sec-Butylbenzene	4.483	4.301	5.388	4.342	4.230	4.411	4.526	9.5
p-Isopropyltoluene	3.467	3.392	4.318	3.566	3.557	3.754	3.676	9.2
1,3-Dichlorobenzene	1.871	1.736	2.121	1.750	1.783	1.871	1.855	7.7
1,4-Dichlorobenzene	1.838	1.717	2.062	1.687	1.706	1.761	1.795	7.9

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n-Butylbenzene	3.290	3.137	3.991	3.280	3.275	3.378	3.392	8.9
1,2-Dichlorobenzene	1.589	1.455	1.791	1.478	1.508	1.571	1.565	7.8
1,2-Dibromo-3-Chloropropane	0.084	0.083	0.101	0.090	0.090	0.098	0.091	7.8
1,2,4-Trichlorobenzene	0.781	0.726	0.946	0.794	0.838	0.864	0.825	9.3
Hexachlorobutadiene	0.581	0.492	0.630	0.473	0.473	0.471	0.520	13.2
1,2,3-Trichlorobenzene	0.628	0.603	0.757	0.671	0.709	0.720	0.681	8.6
1,2-Dichloroethane-d4	0.472	0.483	0.588	0.476	0.519	0.499	0.506	8.6
Dibromofluoromethane	0.302	0.302	0.374	0.302	0.309	0.314	0.317	8.9
Toluene-d8	1.197	1.205	1.481	1.205	1.223	1.235	1.258	8.8
4-Bromofluorobenzene	0.409	0.353	0.441	0.369	0.398	0.406	0.396	7.9
trans-1,4-Dichloro-2-butene	0.203	0.189	0.234	0.200	0.204	0.225	0.209	8.1

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