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

Lab Name: Alliance | Contract: EARTH03

Lab Code: ACE | SDG No.: Q2651

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
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
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
Methyl Acetate	0.247	0.256	0.351	0.323	0.323	0.364	0.311	15.7
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
Cyclohexane	1.175	1.012	1.175	0.880	0.887	0.918	1.008	13.7
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
cis-1,2-Dichloroethene	0.657	0.648	0.788	0.631	0.680	0.687	0.682	8.2
Bromochloromethane	0.394	0.391	0.488	0.398	0.425	0.413	0.418	8.7
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
Methylcyclohexane	0.657	0.609	0.764	0.611	0.604	0.635	0.647	9.4
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
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
Toluene	0.865	0.868	1.088	0.892	0.939	0.960	0.935	9

* 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
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
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
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
1,3-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
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
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

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