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

Lab Name: Alliance | Contract: RTPE01

Lab Code: ACE | SDG No.: Q3799

Instrument ID: MSVOA_L | Calibration Date(s): 11/18/2025 11/18/2025

Heated Purge: (Y/N) N | Calibration Time(s): 09:29 13:24

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF0.5 = VL043203.D RRF010 = VL043204.D RRF002 = VL043205.D
RRF001 = VL043206.D RRF0.1 = VL043208.D RRF.03 = VL043209.D

COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.398	1.340	1.476	1.505			1.410	5.5
Chloromethane	0.521	0.498	0.568	0.559			0.527	6.7
Vinyl Chloride	0.533	0.486	0.575	0.580	0.655	0.724	0.577	15.3
Bromomethane	0.300	0.253	0.286	0.302			0.280	8.3
Chloroethane	0.246	0.194	0.236	0.248			0.225	11.6
Tetrahydrofuran	0.418	0.367	0.402	0.401			0.390	6.3
Trichlorofluoromethane	1.238	1.240	1.487	1.515			1.367	9.6
1,1,2-Trichlorotrifluoroethane	1.061	0.987	1.115	1.142			1.067	5.9
Dichlorotetrafluoroethane	1.156	1.091	1.262	1.241			1.173	6.4
tert-Butyl alcohol	1.784	1.705	1.880	2.014			1.824	6.9
Heptane	2.106	1.604	1.728	1.804			1.753	12.9
1,1-Dichloroethene	0.555	0.441	0.515	0.530			0.497	10.5
Acetone	1.721	1.032	1.519	1.591			1.389	22.4
Carbon Disulfide	1.303	1.257	1.432	1.424			1.341	6
Methyl tert-Butyl Ether	0.642	0.591	0.674	0.704			0.645	7
Methylene Chloride	0.906	0.398	0.585	0.710			0.600	35.9
trans-1,2-Dichloroethene	0.605	0.499	0.599	0.614			0.568	9.4
1,1-Dichloroethane	1.050	1.018	1.194	1.173			1.096	7.4
Cyclohexane	1.135	1.024	1.130	1.194			1.101	6.8
2-Butanone	0.744	0.644	0.736	0.751			0.706	7.4
Carbon Tetrachloride	0.779	0.708	0.737	0.771	0.765	0.832	0.759	5.5
cis-1,2-Dichloroethene	1.399	1.240	1.322	1.351			1.306	5.8
Chloroform	1.955	1.785	1.928	1.898			1.867	4.5
1,1,1-Trichloroethane	1.971	1.884	2.033	2.018	2.046	2.116	1.990	4.5
2,2,4-Trimethylpentane	1.746	1.555	1.621	1.765			1.645	6.5
Benzene	0.996	0.905	0.986	1.001			0.958	5.3
1,2-Dichloroethane	0.572	0.531	0.565	0.580			0.560	3.4
Trichloroethene	0.390	0.353	0.371	0.388	0.475	0.293	0.375	14.6
1,2-Dichloropropane	0.372	0.335	0.350	0.364			0.351	5
Bromodichloromethane	0.782	0.745	0.783	0.795			0.773	2.6

* 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	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	1.025	0.946	1.027	1.061			0.994	6.2
Toluene	1.198	1.075	1.146	1.182			1.134	5.3
t-1,3-Dichloropropene	0.495	0.455	0.489	0.472			0.474	3.8
cis-1,3-Dichloropropene	0.599	0.534	0.562	0.557			0.556	5
1,1,2-Trichloroethane	0.424	0.344	0.378	0.372			0.372	8.9
Dibromochloromethane	0.629	0.618	0.663	0.666			0.640	3.6
1,2-Dibromoethane	0.587	0.525	0.549	0.569	0.528		0.547	4.8
Tetrachloroethene	0.344	0.329	0.349	0.362	0.424	0.363	0.356	9.4
Chlorobenzene	1.035	0.969	1.089	1.088			1.027	6.2
Ethyl Benzene	1.927	1.821	2.008	2.038			1.925	5.2
m/p-Xylene	1.618	1.434	1.607	1.611			1.543	6.1
o-Xylene	1.584	1.419	1.659	1.625			1.542	7.4
Styrene	0.669	0.648	0.719	0.690			0.675	4.5
Bromoform	0.583	0.555	0.581	0.569			0.566	2.9
1,1,2,2-Tetrachloroethane	1.016	0.891	1.028	1.012	1.034	0.999	0.981	6.6
2-Chlorotoluene	2.198	1.960	2.210	2.257			2.120	6.6
1,3,5-Trimethylbenzene	1.623	1.456	1.662	1.682			1.575	7.1
1,2,4-Trimethylbenzene	1.796	1.548	1.871	1.844			1.719	9.5
1,3-Dichlorobenzene	1.043	0.937	1.061	1.053			1.003	6.8
1,4-Dichlorobenzene	1.056	0.940	1.060	1.033			1.003	6.3
1,2-Dichlorobenzene	0.974	0.872	1.050	1.064			0.965	9.8
1,2,4-Trichlorobenzene	0.549	0.678	0.813	0.692			0.683	13.7
Hexachloro-1,3-Butadiene	0.854	0.686	0.920	0.899			0.805	14.9
1,3-Butadiene	0.745	0.551	0.626	0.629			0.619	13
Naphthalene	1.483	1.496	1.860	1.599	1.230		1.527	13.4
4-Ethyltoluene	1.934	1.749	2.009	1.948			1.877	6.5
1-Bromo-4-Fluorobenzene	0.729	0.735	0.741	0.733	0.725	0.712	0.733	1.9
Hexane	1.374	1.235	1.375	1.424			1.314	8.4
Allyl Chloride	1.139	0.849	0.936	0.895			0.935	12.8
1,4-Dioxane	180.443	142.483	155.097	165.607			157.566	10

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COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.576	0.462	0.511	0.532			0.508	9.5

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