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

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Instrument ID: MSVOA_N Calibration Date(s): 09/23/2025 09/23/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:33 11:47

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

LAB FILE ID: RRF005 = VN087924.D RRF050 = VN087926.D RRF100 = VN087927.D
RRF150 = VN087928.D RRF020 = VN087930.D RRF =

COMPOUND	RRF005	RRF050	RRF100	RRF150	RRF020	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.590	0.526	0.505	0.612	0.662		0.579	11
Chloromethane	0.662	0.532	0.497	0.602	0.672		0.593	13.1
Vinyl Chloride	0.656	0.553	0.516	0.613	0.686		0.605	11.7
Ethyl Acetate	0.602	0.536	0.503	0.621	0.605		0.573	8.9
Bromomethane	0.388	0.320	0.331	0.415	0.422		0.375	12.6
Chloroethane	0.442	0.355	0.337	0.407	0.425		0.393	11.5
Trichlorofluoromethane	1.169	0.883	0.816	0.987	1.068		0.985	14.3
1,1,2-Trichlorotrifluoroethane	0.597	0.475	0.439	0.528	0.563		0.521	12.3
1,1-Dichloroethene	0.591	0.470	0.448	0.539	0.579		0.525	12.2
Acrolein	0.170	0.120	0.165	0.174	0.148		0.156	14.2
Acrylonitrile	0.395	0.348	0.328	0.400	0.430		0.380	10.9
Acetone	0.417	0.298	0.274	0.326	0.417		0.346	19.4
Carbon Disulfide	1.788	1.485	1.399	1.672	1.862		1.641	12
Methyl tert-butyl Ether	2.047	1.907	1.811	2.256	2.237		2.052	9.6
Methyl Acetate	0.822	0.813	0.767	0.934	0.997		0.866	11
Methylene Chloride	0.871	0.621	0.571	0.680	0.761		0.701	16.9
trans-1,2-Dichloroethene	0.758	0.570	0.542	0.654	0.695		0.644	13.8
1,1-Dichloroethane	1.315	1.057	0.984	1.206	1.268		1.166	12.1
Cyclohexane	1.163	0.827	0.758	0.951	1.020		0.944	16.9
2-Butanone	0.557	0.479	0.453	0.554	0.602		0.529	11.6
Carbon Tetrachloride	0.524	0.461	0.432	0.542	0.545		0.501	10.3
2,2-Dichloropropane	1.136	0.932	0.868	1.069	1.175		1.036	12.7
cis-1,2-Dichloroethene	0.852	0.690	0.656	0.804	0.829		0.766	11.5
Bromochloromethane	0.667	0.662	0.598	0.570	0.671		0.634	7.3
Chloroform	1.419	1.145	1.075	1.313	1.424		1.275	12.5
1,1,1-Trichloroethane	1.190	0.958	0.908	1.133	1.197		1.077	12.5
Methylcyclohexane	0.445	0.444	0.435	0.562	0.521		0.482	11.8
1,1-Dichloropropene	0.435	0.408	0.390	0.478	0.472		0.437	8.8
Benzene	1.507	1.353	1.258	1.540	1.569		1.445	9.3
1,2-Dichloroethane	0.572	0.484	0.467	0.565	0.609		0.539	11.3

* 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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Instrument ID: MSVOA_N Calibration Date(s): 09/23/2025 09/23/2025

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

LAB FILE ID: RRF005 = VN087924.D RRF050 = VN087926.D RRF100 = VN087927.D
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COMPOUND	RRF005	RRF050	RRF100	RRF150	RRF020	RRF	$\overline{RRF}$	% RSD
Trichloroethene	0.367	0.315	0.304	0.367	0.374		0.345	9.6
1,2-Dichloropropane	0.391	0.333	0.310	0.377	0.402		0.362	10.9
Dibromomethane	0.283	0.260	0.250	0.307	0.329		0.286	11.4
Bromodichloromethane	0.581	0.521	0.489	0.597	0.616		0.561	9.6
4-Methyl-2-Pentanone	0.532	0.537	0.509	0.614	0.623		0.563	9.2
Toluene	0.897	0.848	0.811	0.998	0.981		0.907	9
t-1,3-Dichloropropene	0.556	0.528	0.518	0.650	0.617		0.574	10
cis-1,3-Dichloropropene	0.593	0.544	0.534	0.659	0.651		0.596	9.8
1,1,2-Trichloroethane	0.390	0.339	0.318	0.384	0.413		0.369	10.5
1,3-Dichloropropane	0.610	0.567	0.539	0.651	0.667		0.607	8.9
2-Chloroethyl Vinyl ether	0.193	0.219	0.250	0.312	0.278		0.251	18.7
2-Hexanone	0.297	0.369	0.358	0.436	0.402		0.372	14.1
Dibromochloromethane	0.425	0.402	0.391	0.479	0.472		0.434	9.2
1,2-Dibromoethane	0.395	0.362	0.341	0.420	0.435		0.390	10
Tetrachloroethene	0.308	0.279	0.264	0.328	0.345		0.305	11
Chlorobenzene	1.057	0.951	0.940	1.153	1.218		1.064	11.5
1,1,1,2-Tetrachloroethane	0.402	0.349	0.335	0.409	0.423		0.384	10.1
Ethyl Benzene	1.650	1.601	1.637	2.022	1.968		1.775	11.4
m/p-Xylenes	0.612	0.637	0.615	0.767	0.765		0.679	11.8
o-Xylene	0.593	0.598	0.601	0.752	0.718		0.652	11.7
Styrene	0.906	1.063	1.061	1.312	1.260		1.120	14.7
Bromoform	0.286	0.285	0.289	0.352	0.344		0.311	10.9
Isopropylbenzene	2.660	2.804	2.859	3.653	3.518		3.099	14.6
1,1,2,2-Tetrachloroethane	1.212	0.979	0.954	1.168	1.269		1.117	12.7
1,2,3-Trichloropropane	0.969	0.866	0.857	1.064	1.172		0.986	13.6
Bromobenzene	0.851	0.716	0.720	0.916	0.919		0.825	12.2
2-Chlorotoluene	2.330	2.084	2.098	2.647	2.636		2.359	11.7
1,3,5-Trimethylbenzene	2.388	2.400	2.472	3.079	3.064		2.680	13.4
4-Chlorotoluene	2.124	2.146	2.162	2.705	2.748		2.377	13.4
1,2,4-Trimethylbenzene	2.418	2.514	2.539	3.174	3.101		2.749	13

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COMPOUND	RRF005	RRF050	RRF100	RRF150	RRF020	RRF	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	1.689	1.403	1.409	1.745	1.798		1.609	11.7
1,4-Dichlorobenzene	1.800	1.413	1.423	1.744	1.888		1.654	13.4
1,2-Dichlorobenzene	1.591	1.357	1.358	1.673	1.776		1.551	12.2
1,2-Dibromo-3-Chloropropane	0.285	0.220	0.221	0.286	0.285		0.259	13.7
1,2,4-Trichlorobenzene	0.867	0.791	0.830	1.099	0.991		0.916	13.9
1,2,3-Trichlorobenzene	0.780	0.783	0.800	1.068	1.020		0.890	15.9
1,2-Dichloroethane-d4	0.852	0.872	0.901	0.877	0.705		0.841	9.3
Dibromofluoromethane	0.376	0.372	0.385	0.376	0.305		0.363	9
Toluene-d8	1.189	1.352	1.429	1.387	1.026		1.277	13.1
4-Bromofluorobenzene	0.432	0.476	0.511	0.496	0.367		0.456	12.8
Methyl Iodide	0.335	0.462	0.478	0.593	0.474		0.468	19.6

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