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

Lab Name: Alliance Contract: REMI02

Lab Code: ACE SDG No.: Q3534

Instrument ID: MSVOA_V Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:40 11:32

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

LAB FILE ID: RRF001 = VV039282.D RRF005 = VV039283.D RRF010 = VV039284.D
RRF020 = VV039285.D RRF050 = VV039286.D RRF100 = VV039287.D

COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.626	0.584	0.740	0.647	0.598	0.596	0.632	9.2
Chloromethane	0.732	0.659	0.754	0.629	0.588	0.586	0.658	10.8
Vinyl Chloride	0.863	0.761	0.827	0.720	0.666	0.666	0.751	11
Bromomethane		0.539	0.582	0.478	0.421	0.416	0.487	14.9
Chloroethane	0.693	0.540	0.519	0.470	0.419	0.403	0.507	20.9
Trichlorofluoromethane	1.374	1.185	1.258	1.095	0.992	0.976	1.147	13.6
1,1,2-Trichlorotrifluoroethane	0.800	0.726	0.754	0.655	0.597	0.588	0.687	12.7
1,1-Dichloroethene	0.846	0.713	0.711	0.637	0.569	0.570	0.674	15.6
Acetone	0.585	0.406	0.420	0.355	0.339	0.321	0.404	23.8
Carbon Disulfide	2.560	1.934	2.027	1.751	1.589	1.565	1.904	19.4
Methyl tert-butyl Ether	2.377	2.087	2.168	1.923	1.798	1.822	2.029	11
Methyl Acetate	1.062	0.818	1.044	0.928	0.828	0.843	0.921	11.9
Methylene Chloride	1.144	0.831	0.798	0.715	0.627	0.616	0.788	24.7
trans-1,2-Dichloroethene	0.929	0.742	0.755	0.654	0.592	0.587	0.710	18.1
1,1-Dichloroethane	1.599	1.384	1.378	1.195	1.092	1.066	1.286	15.9
Cyclohexane		0.999	1.004	0.908	0.872	0.899	0.936	6.5
2-Butanone	0.431	0.404	0.467	0.442	0.427	0.435	0.434	4.7
Carbon Tetrachloride	0.613	0.635	0.667	0.598	0.556	0.548	0.603	7.6
cis-1,2-Dichloroethene	0.808	0.727	0.733	0.657	0.656	0.683	0.711	8.2
Bromochloromethane	0.608	0.606	0.568	0.561	0.490	0.456	0.548	11.4
Chloroform	1.560	1.417	1.409	1.249	1.120	1.109	1.311	13.8
1,1,1-Trichloroethane	1.362	1.212	1.234	1.087	1.002	0.981	1.146	12.9
Methylcyclohexane	0.575	0.501	0.565	0.537	0.588	0.628	0.566	7.7
Benzene	1.579	1.604	1.727	1.588	1.523	1.505	1.588	4.9
1,2-Dichloroethane	0.647	0.565	0.604	0.537	0.501	0.490	0.557	10.9
Trichloroethene	0.424	0.398	0.425	0.395	0.377	0.377	0.399	5.3
1,2-Dichloropropane	0.405	0.354	0.419	0.385	0.381	0.374	0.386	5.9
Bromodichloromethane	0.687	0.668	0.688	0.623	0.583	0.570	0.636	8.2
4-Methyl-2-Pentanone	0.435	0.470	0.598	0.567	0.544	0.543	0.526	11.6
Toluene	0.815	0.927	1.070	1.000	0.971	0.969	0.959	8.9

* 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	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.490	0.542	0.601	0.556	0.562	0.586	0.556	7
cis-1,3-Dichloropropene	0.570	0.593	0.671	0.627	0.622	0.626	0.618	5.5
1,1,2-Trichloroethane	0.482	0.428	0.471	0.428	0.400	0.389	0.433	8.6
2-Hexanone	0.318	0.322	0.427	0.425	0.414	0.411	0.386	13.4
Dibromochloromethane	0.541	0.519	0.551	0.496	0.469	0.461	0.506	7.3
1,2-Dibromoethane	0.447	0.449	0.507	0.450	0.427	0.424	0.451	6.6
Tetrachloroethene	0.390	0.361	0.378	0.370	0.344	0.346	0.365	4.9
Chlorobenzene	1.250	1.185	1.276	1.145	1.116	1.130	1.184	5.6
Ethyl Benzene	1.587	1.545	1.798	1.730	1.866	1.936	1.744	8.9
m/p-Xylenes	0.566	0.569	0.747	0.733	0.764	0.770	0.692	14
o-Xylene	0.523	0.514	0.618	0.610	0.682	0.719	0.611	13.5
Styrene	0.839	0.851	1.117	1.170	1.258	1.285	1.087	18.1
Bromoform	0.379	0.356	0.377	0.354	0.340	0.345	0.359	4.5
Isopropylbenzene	2.745	2.655	3.119	3.050	3.242	3.406	3.036	9.5
1,1,2,2-Tetrachloroethane	1.854	1.451	1.444	1.260	1.180	1.177	1.394	18.4
1,3-Dichlorobenzene	1.658	1.624	1.817	1.650	1.612	1.628	1.665	4.6
1,4-Dichlorobenzene	2.208	1.889	1.962	1.769	1.693	1.659	1.863	11
1,2-Dichlorobenzene	1.765	1.522	1.652	1.498	1.516	1.549	1.584	6.6
1,2-Dibromo-3-Chloropropane	0.373	0.287	0.288	0.258	0.249	0.265	0.287	15.7
1,2,4-Trichlorobenzene	0.880	0.774	0.880	0.839	0.926	1.000	0.883	8.7
1,2,3-Trichlorobenzene	0.919	0.792	0.929	0.883	0.956	1.028	0.918	8.5
1,2-Dichloroethane-d4		0.720	0.759	0.757	0.659	0.657	0.710	7.1
Dibromofluoromethane		0.391	0.408	0.427	0.377	0.367	0.394	6
Toluene-d8		1.121	1.394	1.491	1.353	1.342	1.340	10.2
4-Bromofluorobenzene		0.396	0.473	0.519	0.498	0.500	0.477	10.1

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