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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: WALS01

Lab Code: ACE SDG No.: Q2487

Instrument ID: MSVOA_N Calibration Date(s): 06/30/2025 06/30/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:28 14:51

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

LAB FILE ID: RRF001 = VN087238.D RRF005 = VN087239.D RRF020 = VN087240.D
RRF050 = VN087241.D RRF100 = VN087242.D RRF150 = VN087243.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.442	0.449	0.479	0.507	0.508	0.534	0.487	7.5
Chloromethane	0.362	0.374	0.412	0.393	0.402	0.428	0.395	6.2
Vinyl Chloride	0.423	0.492	0.525	0.488	0.498	0.489	0.486	6.9
Ethyl Acetate	0.421	0.423	0.499	0.465	0.490	0.510	0.468	8.2
Bromomethane		0.444	0.451	0.402	0.439	0.480	0.443	6.3
Chloroethane	0.362	0.383	0.424	0.382	0.383	0.374	0.385	5.4
Trichlorofluoromethane	0.826	0.854	0.936	0.820	0.820	0.802	0.843	5.8
1,1,2-Trichlorotrifluoroethane	0.453	0.501	0.534	0.479	0.486	0.483	0.489	5.5
1,1-Dichloroethene	0.423	0.450	0.512	0.464	0.466	0.474	0.465	6.3
Acrolein		0.071	0.076	0.076	0.083	0.090	0.079	9.2
Acrylonitrile	0.267	0.278	0.309	0.276	0.286	0.292	0.285	5.2
Acetone	0.260	0.237	0.263	0.226	0.227	0.226	0.240	7.2
Carbon Disulfide	1.540	1.386	1.489	1.321	1.320	1.315	1.395	7
Methyl tert-butyl Ether	1.448	1.548	1.759	1.606	1.677	1.739	1.629	7.3
Methyl Acetate	0.501	0.542	0.616	0.540	0.544	0.554	0.549	6.8
Methylene Chloride	0.526	0.552	0.594	0.506	0.508	0.503	0.531	6.7
trans-1,2-Dichloroethene	0.579	0.552	0.600	0.531	0.550	0.560	0.562	4.3
1,1-Dichloroethane	0.798	0.897	0.983	0.873	0.896	0.916	0.894	6.7
Cyclohexane		0.982	0.873	0.783	0.808	0.827	0.855	9.2
2-Butanone	0.330	0.354	0.406	0.370	0.390	0.400	0.375	7.8
Carbon Tetrachloride	0.444	0.477	0.530	0.485	0.512	0.512	0.493	6.3
2,2-Dichloropropane	0.796	0.854	0.927	0.826	0.859	0.871	0.855	5.2
cis-1,2-Dichloroethene	0.617	0.613	0.702	0.633	0.656	0.672	0.649	5.3
Bromochloromethane	0.362	0.397	0.384	0.401	0.404	0.420	0.395	5
Chloroform	0.881	0.988	1.102	0.956	0.996	1.022	0.991	7.4
1,1,1-Trichloroethane	0.915	0.919	0.994	0.887	0.898	0.924	0.923	4.1
Methylcyclohexane	0.455	0.463	0.545	0.515	0.561	0.572	0.518	9.7
1,1-Dichloropropene	0.396	0.399	0.467	0.425	0.459	0.466	0.435	7.6
Benzene	1.284	1.270	1.434	1.310	1.381	1.414	1.349	5.2
1,2-Dichloroethane	0.400	0.437	0.470	0.443	0.470	0.471	0.449	6.3

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Trichloroethene	0.322	0.363	0.385	0.346	0.364	0.370	0.358	6.1
1,2-Dichloropropane	0.247	0.275	0.321	0.290	0.311	0.320	0.294	9.9
Dibromomethane	0.238	0.234	0.271	0.241	0.255	0.261	0.250	5.9
Bromodichloromethane	0.408	0.489	0.521	0.465	0.486	0.495	0.477	8.1
4-Methyl-2-Pentanone	0.313	0.377	0.471	0.454	0.516	0.534	0.444	19.1
Toluene	0.741	0.812	0.928	0.889	0.956	0.980	0.885	10.4
t-1,3-Dichloropropene	0.403	0.466	0.536	0.514	0.569	0.583	0.512	13.2
cis-1,3-Dichloropropene	0.414	0.494	0.557	0.519	0.566	0.579	0.521	11.8
1,1,2-Trichloroethane	0.298	0.331	0.354	0.325	0.350	0.348	0.334	6.3
1,3-Dichloropropane	0.492	0.524	0.578	0.527	0.573	0.578	0.545	6.6
2-Chloroethyl Vinyl ether	0.200	0.234	0.256	0.266	0.290	0.306	0.259	14.8
2-Hexanone		0.268	0.268	0.307	0.366	0.381	0.318	16.7
Dibromochloromethane	0.328	0.376	0.420	0.393	0.425	0.420	0.394	9.5
1,2-Dibromoethane	0.294	0.340	0.388	0.357	0.390	0.388	0.359	10.6
Tetrachloroethene	0.304	0.326	0.362	0.323	0.342	0.344	0.333	6
Chlorobenzene	1.107	1.082	1.194	1.071	1.131	1.145	1.122	4
1,1,1,2-Tetrachloroethane	0.368	0.370	0.415	0.378	0.394	0.399	0.387	4.9
Hexachloroethane	0.476	0.552	0.548	0.516	0.543	0.556	0.532	5.8
Ethyl Benzene	1.482	1.659	1.945	1.801	1.968	2.038	1.815	11.7
m/p-Xylenes	0.585	0.655	0.782	0.734	0.787	0.809	0.725	12.1
o-Xylene	0.499	0.625	0.722	0.695	0.751	0.778	0.679	15.1
Styrene	0.803	0.978	1.258	1.203	1.313	1.365	1.153	18.9
Bromoform	0.217	0.289	0.320	0.308	0.326	0.333	0.299	14.3
Isopropylbenzene	2.651	2.894	3.493	3.144	3.508	3.640	3.222	12.2
1,1,2,2-Tetrachloroethane	1.002	1.049	1.137	0.994	1.073	1.104	1.060	5.3
1,2,3-Trichloropropane	0.859	1.016	1.118	0.851	0.925	0.938	0.951	10.6
Bromobenzene	0.716	0.823	0.909	0.827	0.878	0.893	0.841	8.4
2-Chlorotoluene	2.129	2.149	2.449	2.239	2.426	2.504	2.316	7.1
1,3,5-Trimethylbenzene	2.169	2.469	2.895	2.718	2.931	2.976	2.693	11.8
4-Chlorotoluene	2.197	2.230	2.573	2.332	2.587	2.628	2.424	8

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,2,4-Trimethylbenzene	2.004	2.381	2.970	2.779	2.989	3.063	2.698	15.5
1,3-Dichlorobenzene	1.572	1.612	1.789	1.611	1.716	1.749	1.675	5.3
1,4-Dichlorobenzene	1.883	1.715	1.869	1.625	1.680	1.721	1.749	6
1,2-Dichlorobenzene	1.444	1.531	1.720	1.508	1.573	1.622	1.566	6.1
1,2-Dibromo-3-Chloropropane	0.270	0.236	0.260	0.237	0.257	0.268	0.255	5.8
1,2,4-Trichlorobenzene	0.853	0.890	0.992	0.894	0.936	0.992	0.926	6.2
Hexachlorobutadiene	0.355	0.281	0.310	0.273	0.263	0.284	0.294	11.5
1,2,3-Trichlorobenzene	0.834	0.838	0.967	0.876	0.917	0.982	0.902	7
1,2-Dichloroethane-d4		0.655	0.598	0.592	0.636	0.656	0.628	4.9
Dibromofluoromethane		0.313	0.303	0.307	0.334	0.345	0.320	5.7
Toluene-d8		1.137	1.150	1.205	1.363	1.384	1.248	9.4
4-Bromofluorobenzene		0.390	0.403	0.432	0.490	0.505	0.444	11.6
Methyl Iodide		0.332	0.466	0.526	0.554	0.550	0.486	19.1
1,4-Dioxane	2.618	5.085	6.447	6.464	6.208	6.526	5.558	27.7

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