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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALWA01

Lab Code: ACE SDG No.: Q3157

Instrument ID: MSVOA_W Calibration Date(s): 08/26/2025 08/26/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:39 12:34

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

LAB FILE ID: RRF005 = VW032137.D RRF010 = VW032138.D RRF020 = VW032139.D
RRF100 = VW032141.D RRF150 = VW032142.D RRF050 = VW032144.D

COMPOUND	RRF005	RRF010	RRF020	RRF100	RRF150	RRF050	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.358	0.346	0.357	0.306	0.302	0.312	0.330	8
Chloromethane	0.398	0.347	0.341	0.320	0.330	0.340	0.346	7.9
Vinyl Chloride	0.490	0.486	0.461	0.414	0.402	0.444	0.450	8.2
Bromomethane	0.459	0.414	0.408	0.369	0.384	0.374	0.401	8.4
Chloroethane	0.322	0.335	0.324	0.298	0.304	0.317	0.317	4.3
Trichlorofluoromethane	0.383	0.446	0.455	0.451	0.457	0.481	0.445	7.4
1,1,2-Trichlorotrifluoroethane	0.558	0.514	0.514	0.465	0.454	0.505	0.502	7.5
1,1-Dichloroethene	0.582	0.515	0.547	0.498	0.493	0.536	0.528	6.4
Acetone	0.178	0.161	0.152	0.143	0.138	0.157	0.155	9.1
Carbon Disulfide	1.357	1.337	1.340	1.279	1.257	1.360	1.322	3.3
Methyl tert-butyl Ether	0.981	0.991	1.001	1.005	0.959	1.051	0.998	3.1
Methyl Acetate	0.494	0.465	0.474	0.510	0.501	0.515	0.493	4
Methylene Chloride	0.973	0.880	0.720	0.582	0.555	0.641	0.725	23.3
trans-1,2-Dichloroethene	0.597	0.595	0.604	0.576	0.559	0.609	0.590	3.2
1,1-Dichloroethane	1.118	1.083	1.083	1.026	1.005	1.102	1.070	4.2
Cyclohexane	1.048	0.930	0.852	0.796	0.779	0.862	0.878	11.3
2-Butanone	0.201	0.216	0.217	0.232	0.223	0.226	0.219	4.9
Carbon Tetrachloride	0.467	0.489	0.480	0.477	0.467	0.545	0.488	6
cis-1,2-Dichloroethene	0.734	0.721	0.722	0.705	0.689	0.739	0.718	2.6
Bromochloromethane	0.499	0.475	0.516	0.475	0.487	0.486	0.490	3.2
Chloroform	1.275	1.245	1.229	1.174	1.154	1.250	1.221	3.8
1,1,1-Trichloroethane	0.938	0.907	0.901	0.847	0.839	0.917	0.891	4.5
Methylcyclohexane	0.486	0.525	0.517	0.550	0.538	0.617	0.539	8.2
Benzene	1.381	1.421	1.411	1.363	1.334	1.525	1.406	4.7
1,2-Dichloroethane	0.492	0.494	0.476	0.471	0.466	0.524	0.487	4.4
Trichloroethene	0.350	0.359	0.352	0.343	0.343	0.374	0.354	3.3
1,2-Dichloropropane	0.338	0.344	0.337	0.323	0.322	0.370	0.339	5.2
Bromodichloromethane	0.520	0.536	0.527	0.531	0.533	0.593	0.540	4.9
4-Methyl-2-Pentanone	0.260	0.279	0.281	0.304	0.294	0.317	0.289	6.9
Toluene	0.890	0.920	0.912	0.902	0.879	1.010	0.919	5.1

* 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	RRF100	RRF150	RRF050	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.403	0.446	0.451	0.511	0.510	0.538	0.477	10.7
cis-1,3-Dichloropropene	0.494	0.519	0.523	0.559	0.555	0.613	0.544	7.6
1,1,2-Trichloroethane	0.306	0.314	0.311	0.305	0.298	0.322	0.309	2.7
2-Hexanone	0.173	0.189	0.191	0.218	0.212	0.223	0.201	9.8
Dibromochloromethane	0.351	0.360	0.364	0.380	0.375	0.414	0.374	6
1,2-Dibromoethane	0.283	0.309	0.294	0.302	0.303	0.333	0.304	5.5
Tetrachloroethene	0.318	0.332	0.342	0.322	0.308	0.353	0.329	5
Chlorobenzene	1.137	1.132	1.194	1.107	1.069	1.190	1.138	4.2
Ethyl Benzene	1.676	1.823	1.920	1.880	1.862	2.027	1.865	6.2
m/p-Xylenes	0.627	0.700	0.751	0.730	0.699	0.798	0.718	8
o-Xylene	0.581	0.659	0.695	0.688	0.699	0.752	0.679	8.4
Styrene	1.006	1.160	1.246	1.223	1.221	1.324	1.197	9
Bromoform	0.203	0.212	0.216	0.230	0.238	0.237	0.223	6.5
Isopropylbenzene	2.833	3.266	3.258	3.570	3.666	3.788	3.397	10.3
1,1,2,2-Tetrachloroethane	0.778	0.800	0.774	0.814	0.827	0.851	0.807	3.7
1,3-Dichlorobenzene	1.661	1.817	1.681	1.710	1.698	1.899	1.744	5.3
1,4-Dichlorobenzene	1.723	1.810	1.714	1.656	1.759	1.828	1.748	3.7
1,2-Dichlorobenzene	1.511	1.515	1.603	1.536	1.539	1.561	1.544	2.2
1,2-Dibromo-3-Chloropropane	0.133	0.128	0.139	0.154	0.156	0.146	0.143	8
1,2,4-Trichlorobenzene	0.870	0.994	0.991	0.963	1.015	1.087	0.987	7.2
1,2,3-Trichlorobenzene	0.832	0.916	0.886	0.938	0.965	0.968	0.918	5.7
1,2-Dichloroethane-d4	0.752	0.715	0.723	0.690	0.713	0.697	0.715	3.1
Dibromofluoromethane	0.367	0.350	0.347	0.335	0.346	0.360	0.351	3.2
Toluene-d8	1.173	1.215	1.235	1.191	1.253	1.322	1.231	4.3
4-Bromofluorobenzene	0.448	0.431	0.450	0.447	0.468	0.489	0.455	4.5

* Compounds with required minimum RRF and maximum %RSD values.
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