

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>CHEM02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2637</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date(s):	<u>07/02/2025</u> <u>07/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>12:11</u> <u>14:31</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

LAB FILE ID:		RRF001 = VX046860.D		RRF005 = VX046861.D		RRF020 = VX046862.D		
		RRF050 = VX046863.D		RRF100 = VX046864.D		RRF150 = VX046865.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.445	0.433	0.512	0.487	0.503	0.490	0.478	6.7
Chloromethane	0.505	0.507	0.541	0.508	0.543	0.530	0.522	3.4
Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.2
Ethyl Acetate	0.506	0.376	0.371	0.360	0.355	0.373	0.390	14.7
Bromomethane		0.402	0.402	0.360	0.369	0.295	0.366	12
Chloroethane	0.443	0.365	0.383	0.347	0.362	0.354	0.376	9.4
Trichlorofluoromethane	0.847	0.874	0.921	0.857	0.893	0.885	0.880	3
1,1,2-Trichlorotrifluoroethane	0.527	0.571	0.583	0.548	0.572	0.562	0.561	3.6
Tert butyl alcohol		0.044	0.042	0.042	0.043	0.045	0.043	3.5
1,1-Dichloroethene	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.9
Acrolein		0.074	0.043	0.046	0.048	0.049	0.052	24.1
Acrylonitrile	0.266	0.238	0.249	0.246	0.250	0.254	0.250	3.8
Acetone	0.236	0.210	0.195	0.193	0.197	0.200	0.205	7.9
Carbon Disulfide	1.585	1.425	1.405	1.342	1.398	1.376	1.422	6
Methyl tert-butyl Ether	1.447	1.470	1.540	1.528	1.587	1.615	1.531	4.2
Methyl Acetate	0.488	0.474	0.560	0.553	0.570	0.599	0.541	9.1
Methylene Chloride	0.623	0.625	0.624	0.585	0.596	0.588	0.607	3.1
trans-1,2-Dichloroethene	0.552	0.564	0.575	0.541	0.551	0.545	0.555	2.3
Vinyl Acetate	1.255	1.341	1.423	1.423	1.465	1.475	1.397	6
1,1-Dichloroethane	1.080	1.084	1.074	1.039	1.055	1.050	1.064	1.7
Cyclohexane		0.973	0.977	0.918	0.926	0.927	0.944	3
2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.1
Carbon Tetrachloride	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.7
2,2-Dichloropropane	0.832	0.746	0.782	0.761	0.802	0.826	0.792	4.4
cis-1,2-Dichloroethene	0.711	0.669	0.688	0.660	0.670	0.666	0.677	2.8
Bromochloromethane	0.529	0.543	0.524	0.528	0.516	0.508	0.525	2.3
Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.9
1,1,1-Trichloroethane	0.944	0.897	0.908	0.886	0.901	0.910	0.908	2.2
Methylcyclohexane	0.539	0.588	0.589	0.567	0.578	0.576	0.573	3.2
1,1-Dichloropropene	0.499	0.477	0.461	0.439	0.434	0.437	0.458	5.7

* 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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GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.9
1,2-Dichloroethane	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.4
Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5
1,2-Dichloropropane	0.364	0.340	0.362	0.346	0.345	0.342	0.350	3
Dibromomethane	0.247	0.246	0.250	0.240	0.236	0.237	0.242	2.4
Bromodichloromethane	0.538	0.508	0.535	0.510	0.508	0.507	0.518	2.9
4-Methyl-2-Pentanone	0.330	0.340	0.368	0.366	0.353	0.357	0.353	4.3
Toluene	0.855	0.894	0.906	0.841	0.831	0.823	0.858	3.9
t-1,3-Dichloropropene	0.408	0.431	0.467	0.472	0.490	0.504	0.462	7.8
cis-1,3-Dichloropropene	0.496	0.499	0.532	0.533	0.549	0.554	0.527	4.7
1,1,2-Trichloroethane	0.325	0.329	0.328	0.318	0.310	0.308	0.320	2.8
1,3-Dichloropropane	0.567	0.567	0.572	0.541	0.528	0.527	0.550	3.8
2-Chloroethyl Vinyl ether	0.217	0.235	0.258	0.267	0.260	0.259	0.249	7.7
2-Hexanone	0.205	0.227	0.245	0.247	0.238	0.242	0.234	6.8
Dibromochloromethane	0.383	0.390	0.393	0.377	0.376	0.377	0.383	1.9
1,2-Dibromoethane	0.323	0.317	0.332	0.320	0.317	0.317	0.321	1.8
Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.1
Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.3
1,1,1,2-Tetrachloroethane	0.366	0.347	0.377	0.359	0.366	0.367	0.363	2.7
Hexachloroethane	0.530	0.523	0.537	0.554	0.581	0.589	0.552	5
Ethyl Benzene	1.810	1.868	1.929	1.830	1.846	1.824	1.851	2.3
m/p-Xylenes	0.702	0.710	0.731	0.688	0.683	0.672	0.698	3.1
o-Xylene	0.676	0.677	0.703	0.665	0.663	0.660	0.674	2.4
Styrene	1.070	1.152	1.228	1.175	1.157	1.134	1.153	4.5
Bromoform	0.269	0.261	0.273	0.269	0.275	0.275	0.270	1.9
Isopropylbenzene	3.267	3.428	3.611	3.601	3.592	3.590	3.515	4
1,1,2,2-Tetrachloroethane	1.000	0.948	0.981	0.963	0.939	0.968	0.966	2.3
1,2,3-Trichloropropane	0.781	0.720	0.770	0.787	0.791	0.787	0.773	3.5
Bromobenzene	0.868	0.890	0.876	0.876	0.870	0.872	0.875	0.9
n-propylbenzene	4.048	4.223	4.362	4.293	4.271	4.233	4.238	2.5

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
2-Chlorotoluene	2.441	2.523	2.596	2.482	2.498	2.474	2.503	2.1
1,3,5-Trimethylbenzene	2.574	2.780	3.014	2.924	2.947	2.896	2.856	5.5
4-Chlorotoluene	2.755	2.916	2.982	2.915	2.900	2.859	2.888	2.6
tert-Butylbenzene	2.733	2.876	3.036	3.020	3.031	3.002	2.950	4.1
1,2,4-Trimethylbenzene	2.615	2.872	3.017	2.949	2.930	2.937	2.887	4.9
sec-Butylbenzene	3.475	3.721	3.852	3.782	3.766	3.719	3.719	3.5
p-Isopropyltoluene	2.948	3.159	3.181	3.162	3.160	3.077	3.114	2.9
1,3-Dichlorobenzene	1.615	1.664	1.673	1.627	1.625	1.619	1.637	1.5
1,4-Dichlorobenzene	1.852	1.776	1.711	1.632	1.622	1.632	1.704	5.5
n-Butylbenzene	2.747	2.891	3.036	2.987	2.983	2.914	2.926	3.5
1,2-Dichlorobenzene	1.626	1.592	1.625	1.568	1.560	1.550	1.587	2.1
1,2-Dibromo-3-Chloropropane	0.158	0.151	0.164	0.171	0.178	0.192	0.169	8.7
1,2,4-Trichlorobenzene	1.016	1.020	1.078	1.087	1.121	1.145	1.078	4.9
Hexachlorobutadiene	0.393	0.397	0.421	0.409	0.408	0.411	0.407	2.5
Naphthalene	2.210	2.537	2.893	3.034	3.096	3.273	2.840	13.9
1,2,3-Trichlorobenzene	0.900	0.965	1.033	1.045	1.069	1.099	1.019	7.2
1,2-Dichloroethane-d4		0.722	0.652	0.647	0.641	0.640	0.661	5.3
Dibromofluoromethane		0.355	0.346	0.339	0.332	0.325	0.339	3.5
Toluene-d8		1.278	1.220	1.195	1.160	1.135	1.197	4.6
4-Bromofluorobenzene		0.493	0.469	0.455	0.433	0.426	0.455	6

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