

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>CHEM02</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3506</u>
Instrument ID: <u>MSVOA_X</u>	Calibration Date(s): <u>10/29/2025</u> <u>10/29/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>11:12</u> <u>13:03</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

LAB FILE ID:								
RRF001 = VX048407.D			RRF005 = VX048408.D			RRF020 = VX048409.D		
RRF050 = VX048410.D			RRF100 = VX048411.D			RRF150 = VX048412.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.488	0.487	0.477	0.539	0.504	0.565	0.510	6.8
Chloromethane	0.366	0.263	0.275	0.271	0.274	0.277	0.288	13.5
Vinyl Chloride	0.639	0.647	0.642	0.666	0.677	0.718	0.665	4.5
Ethyl Acetate	0.364	0.421	0.396	0.410	0.426	0.430	0.408	6.1
Bromomethane		0.254	0.257	0.242	0.237	0.210	0.240	7.8
Chloroethane	0.405	0.394	0.382	0.391	0.398	0.402	0.395	2.1
Trichlorofluoromethane	0.984	1.004	0.981	1.036	1.006	1.100	1.019	4.4
1,1,2-Trichlorotrifluoroethane	0.542	0.569	0.546	0.589	0.565	0.626	0.573	5.4
Tert butyl alcohol		0.049	0.054	0.053	0.061	0.059	0.055	8.5
1,1-Dichloroethene	0.573	0.559	0.559	0.581	0.591	0.628	0.582	4.4
Acrolein		0.105	0.112	0.112	0.128	0.118	0.115	7.4
Acrylonitrile	0.251	0.233	0.241	0.247	0.272	0.261	0.251	5.6
Acetone	0.176	0.136	0.156	0.159	0.176	0.175	0.163	9.8
Carbon Disulfide	1.871	1.692	1.629	1.676	1.568	1.577	1.669	6.7
Methyl tert-butyl Ether	1.967	1.753	1.815	1.763	1.975	1.908	1.864	5.4
Methyl Acetate	0.578	0.474	0.488	0.494	0.612	0.625	0.545	12.4
Methylene Chloride	0.660	0.613	0.619	0.598	0.651	0.628	0.628	3.7
trans-1,2-Dichloroethene	0.614	0.604	0.610	0.606	0.632	0.643	0.618	2.5
Vinyl Acetate	1.453	1.390	1.457	1.330	1.373	1.237	1.373	6
1,1-Dichloroethane	1.130	1.140	1.127	1.106	1.190	1.176	1.145	2.8
Cyclohexane		0.962	0.968	1.011	0.964	1.063	0.994	4.4
2-Butanone	0.257	0.225	0.261	0.257	0.287	0.275	0.260	8.1
Carbon Tetrachloride	0.578	0.562	0.528	0.559	0.517	0.572	0.553	4.4
2,2-Dichloropropane	1.042	0.949	0.935	0.952	1.002	1.035	0.986	4.7
cis-1,2-Dichloroethene	0.756	0.717	0.709	0.712	0.771	0.761	0.738	3.8
Bromochloromethane	0.465	0.513	0.556	0.513	0.519	0.546	0.519	6.2
Chloroform	1.200	1.176	1.167	1.131	1.212	1.180	1.178	2.4
1,1,1-Trichloroethane	1.030	1.024	1.013	1.030	1.057	1.084	1.040	2.5
Methylcyclohexane	0.578	0.604	0.565	0.665	0.585	0.696	0.616	8.5
1,1-Dichloropropene	0.482	0.446	0.481	0.490	0.463	0.511	0.479	4.6

* 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	RRF	% RSD
Benzene	1.397	1.464	1.457	1.472	1.461	1.524	1.462	2.8
1,2-Dichloroethane	0.521	0.520	0.519	0.501	0.514	0.515	0.515	1.5
Trichloroethene	0.365	0.399	0.368	0.381	0.379	0.406	0.383	4.3
1,2-Dichloropropane	0.367	0.357	0.359	0.362	0.369	0.377	0.365	2
Dibromomethane	0.245	0.260	0.252	0.252	0.261	0.263	0.256	2.8
Bromodichloromethane	0.542	0.553	0.536	0.538	0.542	0.550	0.543	1.2
4-Methyl-2-Pentanone	0.366	0.355	0.373	0.375	0.391	0.388	0.375	3.5
Toluene	0.864	0.918	0.902	0.931	0.914	0.955	0.914	3.3
t-1,3-Dichloropropene	0.463	0.491	0.510	0.496	0.501	0.493	0.492	3.2
cis-1,3-Dichloropropene	0.549	0.525	0.558	0.524	0.522	0.506	0.531	3.7
1,1,2-Trichloroethane	0.329	0.330	0.332	0.326	0.333	0.334	0.331	1
1,3-Dichloropropane	0.578	0.580	0.566	0.568	0.574	0.575	0.573	1
2-Chloroethyl Vinyl ether	0.145	0.216	0.278	0.282	0.281	0.302	0.251	23.7
2-Hexanone	0.219	0.217	0.248	0.251	0.264	0.263	0.244	8.6
Dibromochloromethane	0.405	0.408	0.403	0.408	0.412	0.418	0.409	1.3
1,2-Dibromoethane	0.340	0.338	0.338	0.341	0.349	0.347	0.342	1.3
Tetrachloroethene	0.433	0.411	0.384	0.402	0.376	0.410	0.403	5.1
Chlorobenzene	1.135	1.174	1.118	1.150	1.154	1.179	1.152	2
1,1,1,2-Tetrachloroethane	0.360	0.387	0.386	0.396	0.404	0.417	0.392	5
Hexachloroethane	0.521	0.518	0.537	0.594	0.589	0.669	0.571	10.2
Ethyl Benzene	1.825	1.909	1.888	1.994	1.951	2.070	1.940	4.4
m/p-Xylenes	0.663	0.731	0.718	0.773	0.744	0.777	0.734	5.7
o-Xylene	0.636	0.689	0.686	0.729	0.721	0.750	0.702	5.8
Styrene	1.059	1.139	1.180	1.235	1.247	1.273	1.189	6.7
Bromoform	0.284	0.268	0.267	0.281	0.299	0.302	0.283	5.2
Isopropylbenzene	3.372	3.599	3.592	3.841	3.700	4.085	3.698	6.6
1,1,2,2-Tetrachloroethane	0.915	0.919	0.914	0.929	0.956	0.988	0.937	3.2
1,2,3-Trichloropropane	0.617	0.702	0.708	0.743	0.765	0.779	0.719	8.1
Bromobenzene	0.877	0.904	0.886	0.912	0.919	0.984	0.914	4.1
n-propylbenzene	3.871	4.307	4.262	4.596	4.352	4.838	4.371	7.5

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COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
2-Chlorotoluene	2.524	2.598	2.538	2.652	2.609	2.825	2.624	4.1
1,3,5-Trimethylbenzene	2.640	2.973	2.948	3.194	3.065	3.369	3.032	8.1
4-Chlorotoluene	2.883	3.105	3.023	3.125	3.076	3.299	3.085	4.4
tert-Butylbenzene	2.798	3.001	2.945	3.216	3.098	3.459	3.086	7.5
1,2,4-Trimethylbenzene	2.580	2.875	2.976	3.141	3.082	3.355	3.002	8.8
sec-Butylbenzene	3.379	3.847	3.727	4.052	3.793	4.276	3.846	7.9
p-Isopropyltoluene	2.815	3.198	3.145	3.435	3.257	3.657	3.251	8.7
1,3-Dichlorobenzene	1.911	1.733	1.660	1.690	1.666	1.807	1.745	5.6
1,4-Dichlorobenzene	1.948	1.824	1.666	1.710	1.684	1.829	1.777	6.2
n-Butylbenzene	2.892	2.903	2.886	3.183	3.003	3.447	3.052	7.3
1,2-Dichlorobenzene	1.618	1.609	1.565	1.589	1.607	1.712	1.617	3.1
1,2-Dibromo-3-Chloropropane	0.181	0.156	0.171	0.187	0.195	0.210	0.183	10.2
1,2,4-Trichlorobenzene	1.140	1.040	1.045	1.112	1.124	1.232	1.116	6.3
Hexachlorobutadiene	0.507	0.437	0.435	0.481	0.431	0.516	0.468	8.2
Naphthalene	2.578	2.419	2.645	2.935	3.064	3.264	2.818	11.4
1,2,3-Trichlorobenzene	0.981	0.937	0.957	1.033	1.029	1.143	1.013	7.3
1,2-Dichloroethane-d4		0.765	0.689	0.674	0.728	0.739	0.719	5.2
Dibromofluoromethane		0.300	0.260	0.276	0.283	0.307	0.285	6.6
Toluene-d8		1.333	1.191	1.222	1.207	1.339	1.258	5.7
4-Bromofluorobenzene		0.537	0.437	0.446	0.449	0.485	0.471	8.8

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