

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GARD04

Lab Code: ACE

SDG No.: Q3689

Instrument ID: MSVOA_X

Calibration Date(s): 11/07/2025 11/07/2025

Heated Purge: (Y/N) N

Calibration Time(s): 13:35 16:29

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

LAB FILE ID:		RRF001 = VX048516.D		RRF005 = VX048517.D		RRF020 = VX048518.D			
		RRF100 = VX048520.D		RRF150 = VX048521.D		RRF050 = VX048524.D			
COMPOUND	RRF001	RRF005	RRF020	RRF100	RRF150	RRF050	RRF	% RSD	
Dichlorodifluoromethane	0.365	0.364	0.352	0.452	0.474	0.424	0.405	12.8	
Chloromethane	0.603	0.457	0.425	0.581	0.565	0.592	0.537	14.2	
Vinyl Chloride	0.666	0.579	0.608	0.601	0.597	0.600	0.608	4.9	
Bromomethane		0.468	0.417	0.323	0.287	0.426	0.384	19.8	
Chloroethane	0.465	0.419	0.397	0.370	0.357	0.383	0.398	9.8	
Trichlorofluoromethane	0.982	1.030	1.019	0.919	0.939	0.886	0.963	6	
1,1,2-Trichlorotrifluoroethane	0.552	0.556	0.616	0.546	0.558	0.515	0.557	5.9	
1,1-Dichloroethene	0.669	0.584	0.591	0.555	0.548	0.545	0.582	8	
Acetone	0.383	0.318	0.318	0.317	0.313	0.330	0.330	8.1	
Carbon Disulfide	2.045	1.739	1.609	1.468	1.477	1.489	1.638	13.7	
Methyl tert-butyl Ether	2.163	2.158	2.049	1.984	1.861	2.117	2.055	5.7	
Methyl Acetate	1.195	0.876	0.857	0.818	0.823	0.869	0.906	15.8	
Methylene Chloride	0.845	0.689	0.663	0.624	0.595	0.653	0.678	13	
trans-1,2-Dichloroethene	0.700	0.650	0.612	0.585	0.557	0.598	0.617	8.3	
1,1-Dichloroethane	1.255	1.247	1.124	1.083	1.041	1.102	1.142	7.8	
Cyclohexane		1.001	1.004	0.896	0.910	0.867	0.936	6.7	
2-Butanone	0.474	0.502	0.511	0.470	0.465	0.506	0.488	4.2	
Carbon Tetrachloride	0.640	0.766	0.546	0.520	0.504	0.486	0.577	18.6	
cis-1,2-Dichloroethene	0.888	0.787	0.737	0.703	0.684	0.725	0.754	9.9	
Bromochloromethane	0.640	0.630	0.533	0.522	0.497	0.543	0.561	10.6	
Chloroform	1.357	1.277	1.162	1.105	1.052	1.120	1.179	9.8	
1,1,1-Trichloroethane	1.160	1.087	1.026	0.979	0.947	0.973	1.029	7.9	
Methylcyclohexane	0.585	0.607	0.558	0.561	0.592	0.510	0.569	6	
Benzene	1.745	2.038	1.468	1.396	1.369	1.408	1.571	17	
1,2-Dichloroethane	0.540	0.721	0.525	0.489	0.473	0.481	0.538	17.3	
Trichloroethene	0.423	0.390	0.356	0.366	0.363	0.355	0.375	7.1	
1,2-Dichloropropane	0.417	0.381	0.319	0.352	0.340	0.358	0.361	9.5	
Bromodichloromethane	0.517	0.598	0.446	0.539	0.510	0.543	0.526	9.5	
4-Methyl-2-Pentanone	0.505	0.667	0.514	0.573	0.546	0.620	0.571	11	
Toluene	0.709	0.955	0.710	0.868	0.843	0.877	0.827	11.9	

* 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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Lab Code: <u>ACE</u>	SDG No.: <u>Q3689</u>
Instrument ID: <u>MSVOA_X</u>	Calibration Date(s): <u>11/07/2025</u> <u>11/07/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>13:35</u> <u>16:29</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

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COMPOUND	RRF001	RRF005	RRF020	RRF100	RRF150	RRF050	RRF	% RSD
t-1,3-Dichloropropene	0.513	0.609	0.452	0.561	0.542	0.572	0.541	10
cis-1,3-Dichloropropene	0.472	0.633	0.481	0.595	0.578	0.606	0.561	12.1
1,1,2-Trichloroethane	0.289	0.373	0.286	0.345	0.329	0.361	0.330	11.1
2-Hexanone	0.360	0.487	0.390	0.429	0.416	0.464	0.425	11
Dibromochloromethane	0.347	0.468	0.351	0.428	0.404	0.436	0.406	12
1,2-Dibromoethane	0.309	0.417	0.308	0.374	0.358	0.381	0.358	11.9
Tetrachloroethene	0.444	0.364	0.352	0.344	0.348	0.327	0.363	11.4
Chlorobenzene	1.406	1.245	1.153	1.112	1.105	1.101	1.187	10.1
Ethyl Benzene	2.253	2.045	1.976	1.899	1.898	1.887	1.993	7.1
m/p-Xylenes	0.764	0.793	0.758	0.736	0.733	0.720	0.751	3.5
o-Xylene	0.795	0.746	0.721	0.714	0.726	0.703	0.734	4.5
Styrene	1.228	1.256	1.227	1.226	1.244	1.210	1.232	1.3
Bromoform	0.427	0.350	0.345	0.359	0.373	0.348	0.367	8.4
Isopropylbenzene	3.857	3.727	3.683	3.551	3.492	3.466	3.629	4.2
1,1,2,2-Tetrachloroethane	1.544	1.284	1.230	1.207	1.185	1.229	1.280	10.4
1,3-Dichlorobenzene	2.076	1.785	1.686	1.680	1.668	1.644	1.756	9.3
1,4-Dichlorobenzene	2.329	1.860	1.676	1.671	1.672	1.678	1.814	14.5
1,2-Dichlorobenzene	1.944	1.695	1.611	1.627	1.616	1.624	1.686	7.7
1,2-Dibromo-3-Chloropropane	0.304	0.308	0.294	0.298	0.285	0.297	0.297	2.7
1,2,4-Trichlorobenzene	1.353	1.032	1.057	1.097	1.117	1.066	1.120	10.5
1,2,3-Trichlorobenzene	1.170	0.973	0.994	1.049	1.051	1.016	1.042	6.7
1,2-Dichloroethane-d4		0.775	0.723	0.677	0.623	0.685	0.697	8.1
Dibromofluoromethane		0.484	0.374	0.356	0.327	0.351	0.378	16.2
Toluene-d8		1.341	1.021	1.210	1.128	1.202	1.180	10
4-Bromofluorobenzene		0.523	0.365	0.445	0.423	0.443	0.440	12.9

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