

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: AECO02

Lab Code: ACE

SDG No.: Q2903

Instrument ID: MSVOA_X

Calibration Date(s): 08/15/2025 08/15/2025

Heated Purge: (Y/N) N

Calibration Time(s): 09:40 12:30

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

LAB FILE ID:	RRF005 = VX047349.D			RRF020 = VX047350.D		RRF050 = VX047351.D		RRF100 = VX047352.D		RRF150 = VX047353.D		RRF001 = VX047356.D	
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD					
Dichlorodifluoromethane	0.558	0.638	0.731	0.671	0.680	0.546	0.637	11.4					
Chloromethane	0.539	0.568	0.624	0.567	0.594	0.549	0.573	5.4					
Vinyl Chloride	0.651	0.751	0.800	0.729	0.757	0.630	0.720	9.2					
Bromomethane	0.251	0.296	0.336	0.309	0.261		0.291	11.9					
Chloroethane	0.392	0.440	0.463	0.410	0.422	0.515	0.440	10					
Trichlorofluoromethane	1.012	1.121	1.188	1.060	1.069	0.938	1.065	8.1					
1,1,2-Trichlorotrifluoroethane	0.589	0.664	0.697	0.624	0.637	0.494	0.618	11.4					
1,1-Dichloroethene	0.575	0.664	0.697	0.635	0.651	0.555	0.630	8.6					
Acetone	0.259	0.310	0.280	0.240	0.240	0.249	0.263	10.5					
Carbon Disulfide	1.747	1.916	1.993	1.819	1.854	2.069	1.900	6.2					
Methyl tert-butyl Ether	1.768	2.019	2.175	1.962	2.014	1.554	1.915	11.5					
Methyl Acetate	0.620	0.661	0.769	0.689	0.728	0.621	0.682	8.7					
Methylene Chloride	0.645	0.732	0.757	0.669	0.684	0.691	0.697	5.9					
trans-1,2-Dichloroethene	0.638	0.705	0.725	0.655	0.664	0.621	0.668	6					
1,1-Dichloroethane	1.180	1.294	1.356	1.210	1.238	1.052	1.222	8.5					
Cyclohexane	1.024	1.202	1.210	1.082	1.113		1.126	7					
2-Butanone	0.328	0.378	0.389	0.342	0.343	0.287	0.344	10.6					
Carbon Tetrachloride	0.536	0.596	0.607	0.549	0.554	0.515	0.560	6.3					
cis-1,2-Dichloroethene	0.758	0.826	0.846	0.769	0.779	0.692	0.778	7					
Bromochloromethane	0.543	0.402	0.540	0.560	0.525	0.481	0.508	11.6					
Chloroform	1.236	1.328	1.368	1.214	1.243	1.091	1.247	7.8					
1,1,1-Trichloroethane	1.043	1.151	1.195	1.081	1.106	0.863	1.073	10.8					
Methylcyclohexane	0.589	0.673	0.695	0.640	0.642	0.595	0.639	6.5					
Benzene	1.502	1.665	1.701	1.516	1.504	1.312	1.533	9.1					
1,2-Dichloroethane	0.521	0.594	0.600	0.532	0.528	0.484	0.543	8.3					
Trichloroethene	0.383	0.423	0.432	0.390	0.391	0.336	0.393	8.6					
1,2-Dichloropropane	0.349	0.415	0.421	0.381	0.382	0.357	0.384	7.6					
Bromodichloromethane	0.548	0.621	0.635	0.578	0.573	0.513	0.578	7.8					
4-Methyl-2-Pentanone	0.408	0.479	0.509	0.451	0.444	0.346	0.440	13					
Toluene	0.920	1.043	1.057	0.936	0.927	0.802	0.947	9.9					

* 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 Name:	<u>Alliance</u>	Contract:	<u>AECO02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2903</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date(s):	<u>08/15/2025</u> <u>08/15/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>09:40</u> <u>12:30</u>
GC Column:	<u>DB-624UI</u> ID: <u>0.18</u> (mm)		

LAB FILE ID:		RRF005 = VX047349.D		RRF020 = VX047350.D		RRF050 = VX047351.D		
		RRF100 = VX047352.D		RRF150 = VX047353.D		RRF001 = VX047356.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD
t-1,3-Dichloropropene	0.444	0.537	0.584	0.541	0.550	0.371	0.505	15.9
cis-1,3-Dichloropropene	0.531	0.608	0.642	0.592	0.602	0.451	0.571	12
1,1,2-Trichloroethane	0.358	0.393	0.396	0.352	0.347	0.313	0.360	8.6
2-Hexanone	0.284	0.338	0.347	0.310	0.306	0.239	0.304	12.9
Dibromochloromethane	0.412	0.461	0.464	0.426	0.420	0.382	0.428	7.3
1,2-Dibromoethane	0.358	0.397	0.409	0.365	0.361	0.336	0.371	7.2
Tetrachloroethene	0.351	0.384	0.398	0.360	0.360	0.316	0.362	7.8
Chlorobenzene	1.163	1.268	1.286	1.163	1.175	1.073	1.188	6.6
Ethyl Benzene	1.941	2.216	2.277	2.062	2.056	1.718	2.045	9.8
m/p-Xylenes	0.722	0.831	0.858	0.765	0.759	0.642	0.763	10.2
o-Xylene	0.679	0.793	0.813	0.735	0.732	0.651	0.734	8.6
Styrene	1.186	1.397	1.411	1.271	1.266	0.909	1.240	14.8
Bromoform	0.294	0.322	0.335	0.306	0.313	0.241	0.302	10.9
Isopropylbenzene	3.547	4.192	4.399	4.048	4.080	3.211	3.913	11.4
1,1,2,2-Tetrachloroethane	1.077	1.208	1.269	1.142	1.152	1.044	1.149	7.2
1,3-Dichlorobenzene	1.719	1.907	1.983	1.811	1.823	1.710	1.825	5.8
1,4-Dichlorobenzene	1.788	1.952	1.986	1.788	1.814	1.936	1.877	4.8
1,2-Dichlorobenzene	1.617	1.851	1.862	1.705	1.729	1.631	1.733	6.1
1,2-Dibromo-3-Chloropropane	0.182	0.225	0.247	0.238	0.249	0.191	0.222	13
1,2,4-Trichlorobenzene	1.030	1.168	1.234	1.191	1.204	1.144	1.161	6.2
1,2,3-Trichlorobenzene	0.919	1.109	1.174	1.132	1.160	1.075	1.095	8.5
1,2-Dichloroethane-d4	0.709	0.581	0.700	0.747	0.762		0.700	10.2
Dibromofluoromethane	0.310	0.278	0.331	0.354	0.349		0.325	9.6
Toluene-d8	1.157	0.994	1.171	1.246	1.232		1.160	8.7
4-Bromofluorobenzene	0.441	0.371	0.428	0.452	0.448		0.428	7.8

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