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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG No.: Q2671

Instrument ID: MSVOA_L Calibration Date(s): 07/23/2025 07/23/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:58 13:00

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL042747.D RRF002 = VL042748.D RRF001 = VL042749.D
RRF0.5 = VL042750.D RRF.03 = VL042752.D RRF015 = VL042753.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF.03	RRF015	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.198	1.377	1.339	1.468		1.229	1.322	8.3
Chloromethane	0.484	0.531	0.579	0.585		0.495	0.535	8.7
Vinyl Chloride	0.411	0.485	0.476	0.516	0.825	0.437	0.528	26.3
Bromomethane	0.178	0.181	0.239	0.227		0.196	0.204	13.5
Chloroethane	0.177	0.189	0.196	0.278		0.181	0.204	20.5
Tetrahydrofuran	0.362	0.367	0.350	0.361		0.362	0.360	1.7
Trichlorofluoromethane	1.226	1.412	1.435	1.457		1.285	1.363	7.5
1,1,2-Trichlorotrifluoroethane	0.940	1.069	1.063	1.115		0.991	1.036	6.7
Dichlorotetrafluoroethane	0.980	1.123	1.130	1.186		1.017	1.087	7.9
tert-Butyl alcohol	1.165	1.265	1.275	1.366		1.156	1.245	7
Heptane	1.633	1.780	1.672	1.719		1.635	1.688	3.7
1,1-Dichloroethene	0.404	0.453	0.530	0.536		0.417	0.468	13.2
Acetone	0.998	1.521	1.479	1.853		1.054	1.381	25.7
Carbon Disulfide	1.088	1.165	1.183	1.146		1.157	1.148	3.1
Methyl tert-Butyl Ether	0.556	0.650	0.613	0.653		0.696	0.633	8.3
Methylene Chloride	0.337	0.419	0.458	0.595		0.367	0.435	23.2
trans-1,2-Dichloroethene	0.460	0.523	0.506	0.553		0.475	0.503	7.5
1,1-Dichloroethane	0.945	1.071	1.117	1.053		0.981	1.033	6.7
Cyclohexane	1.125	1.201	1.140	1.137		1.083	1.137	3.7
2-Butanone	0.663	0.761	0.713	0.730		0.675	0.708	5.6
Carbon Tetrachloride	0.701	0.735	0.709	0.681	0.950	0.731	0.743	12.6
cis-1,2-Dichloroethene	1.306	1.414	1.406	1.459		1.304	1.378	5.1
Chloroform	1.915	2.136	2.104	2.261		1.943	2.072	6.9
1,1,1-Trichloroethane	1.957	2.132	2.048	2.133	2.522	1.985	2.158	9.4
2,2,4-Trimethylpentane	1.486	1.634	1.585	1.515		1.503	1.545	4
Benzene	0.896	0.995	0.971	0.976		0.900	0.948	4.9
1,2-Dichloroethane	0.537	0.584	0.585	0.595		0.553	0.571	4.3
Trichloroethene	0.408	0.445	0.459	0.452	0.511	0.409	0.455	9
1,2-Dichloropropane	0.324	0.363	0.362	0.371		0.330	0.350	6.1
Bromodichloromethane	0.723	0.755	0.761	0.720		0.759	0.744	2.8

* 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: Alliance
Contract: RTPE01
Lab Code: ACE
SDG No.: Q2671
Instrument ID: MSVOA_L
Calibration Date(s): 07/23/2025 07/23/2025
Heated Purge: (Y/N) N
Calibration Time(s): 08:58 13:00
GC Column: RTX-1 ID: 0.32 (mm)

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF.03	RRF015	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.895	0.956	0.907	0.876		0.928	0.912	3.4
Toluene	1.022	1.074	0.993	0.954		1.045	1.018	4.6
t-1,3-Dichloropropene	0.402	0.375	0.340	0.357		0.415	0.378	8.2
cis-1,3-Dichloropropene	0.507	0.479	0.459	0.435		0.514	0.479	6.9
1,1,2-Trichloroethane	0.347	0.385	0.384	0.393		0.356	0.373	5.4
Dibromochloromethane	0.600	0.600	0.571	0.569		0.619	0.592	3.6
1,2-Dibromoethane	0.514	0.539	0.531	0.550		0.529	0.527	3.5
Tetrachloroethene	0.339	0.378	0.394	0.374	0.504	0.339	0.393	14.5
Chlorobenzene	0.879	1.016	1.019	1.019		0.905	0.968	7.2
Ethyl Benzene	1.551	1.744	1.548	1.426		1.627	1.579	7.4
m/p-Xylene	1.234	1.354	1.275	1.151		1.296	1.262	6
o-Xylene	1.225	1.381	1.280	1.155		1.264	1.261	6.6
Styrene	0.561	0.552	0.495	0.450		0.594	0.531	10.8
Bromoform	0.529	0.517	0.502	0.483		0.549	0.516	4.9
1,1,2,2-Tetrachloroethane	0.693	0.803	0.795	0.761	1.105	0.726	0.810	16.8
2-Chlorotoluene	1.385	1.522	1.444	1.331		1.451	1.426	5.1
1,3,5-Trimethylbenzene	1.275	1.315	1.193	1.096		1.321	1.240	7.7
1,2,4-Trimethylbenzene	1.384	1.489	1.345	1.115		1.432	1.353	10.6
1,3-Dichlorobenzene	0.887	1.038	0.970	0.914		0.933	0.948	6.1
1,4-Dichlorobenzene	0.896	1.016	0.927	0.862		0.940	0.928	6.2
1,2-Dichlorobenzene	0.848	1.002	0.996	0.920		0.894	0.932	7.1
1,2,4-Trichlorobenzene	0.800	0.627	0.535	0.365		0.849	0.635	31.1
Hexachloro-1,3-Butadiene	0.712	0.953	0.908	0.897		0.748	0.844	12.6
1,3-Butadiene	0.509	0.583	0.602	0.726		0.524	0.589	14.6
Naphthalene	1.417	0.964	0.727	0.485		1.517	0.958	44.3
4-Ethyltoluene	1.524	1.632	1.493	1.292		1.589	1.506	8.7
1-Bromo-4-Fluorobenzene	0.801	0.805	0.799	0.782	0.780	0.818	0.792	2.5
Hexane	1.281	1.433	1.425	1.325		1.240	1.341	6.4
Allyl Chloride	0.798	0.876	0.856	0.903		0.821	0.851	4.9
1,4-Dioxane	141.353	173.546	169.889	177.381		153.154	163.065	9.4

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF.03	RRF015	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.348	0.331	0.324	0.321		0.361	0.337	5.1

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