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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: ALLI03

Lab Code: ACE | SDG No.: Q2727

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
Chlorodifluoromethane	0.559	0.614	0.597	0.640		0.551	0.592	6.3
Dichlorodifluoromethane	1.198	1.377	1.339	1.468		1.229	1.322	8.3
Ethanol	0.050	0.073	0.104	0.141		0.049	0.083	46.8
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
Ethyl Acetate	2.954	3.212	3.122	3.125		2.870	3.056	4.6
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
Bromoethene	0.337	0.381	0.379	0.393		0.343	0.367	6.8
Propene	0.594	0.681	0.662	0.621		0.572	0.626	7.2
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
Isopropyl Alcohol	0.659	0.726	0.764	0.857		0.663	0.734	11.1
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
Vinyl Acetate	1.704	1.688	1.502	1.643		1.833	1.674	7.1
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

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: ALLI03

Lab Code: ACE | SDG No.: Q2727

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
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
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
2-Hexanone	0.726	0.744	0.647	0.573		0.757	0.690	11.2
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
Isopropylbenzene	1.793	2.034	1.885	1.722		1.866	1.860	6.3
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

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q2727

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	$\overline{\text{RRF}}$	% RSD
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
Benzyl Chloride	0.159	0.128	0.115	0.114		0.163	0.136	17.4
1,4-Dioxane	141.353	173.546	169.889	177.381		153.154	163.065	9.4
Methyl Methacrylate	0.348	0.331	0.324	0.321		0.361	0.337	5.1

* 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.