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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.544	0.509	0.526	0.423	0.430	0.429	0.477	11.6
Chloromethane	1.364	1.331	1.300	1.196	0.936	0.912	1.173	17.1
Vinyl Chloride	1.535	1.493	1.522	1.453	1.292	1.257	1.425	8.5
Bromomethane	1.261	1.281	1.397	1.275	1.213	1.345	1.295	5.1
Chloroethane	0.930	0.881	0.949	1.015	0.907	0.907	0.932	5
Trichlorofluoromethane	1.243	1.174	1.222	1.197	1.187	1.193	1.203	2.1
1,1,2-Trichlorotrifluoroethane	0.552	0.517	0.541	0.520	0.523	0.512	0.528	2.9
1,1-Dichloroethene	0.552	0.512	0.533	0.511	0.520	0.515	0.524	3
Acetone	0.094	0.090	0.081	0.085	0.086	0.083	0.087	5.6
Carbon Disulfide	1.672	1.675	1.707	1.653	1.672	1.650	1.672	1.2
Methyl tert-butyl Ether	1.353	1.359	1.357	1.386	1.445	1.445	1.391	3.1
Methyl Acetate	0.288	0.319	0.296	0.308	0.351	0.383	0.324	11.2
Methylene Chloride	0.778	0.669	0.578	0.549	0.550	0.543	0.611	15.5
trans-1,2-Dichloroethene	0.595	0.556	0.555	0.561	0.582	0.582	0.572	2.9
1,1-Dichloroethane	1.000	0.986	1.035	1.027	1.062	1.056	1.028	2.9
Cyclohexane	1.220	1.044	0.997	0.939	0.947	0.931	1.013	10.9
2-Butanone	0.137	0.144	0.136	0.142	0.152	0.154	0.144	5.2
Carbon Tetrachloride	0.473	0.456	0.471	0.481	0.510	0.512	0.484	4.7
cis-1,2-Dichloroethene	0.655	0.647	0.650	0.652	0.684	0.685	0.662	2.6
Bromochloromethane	0.400	0.426	0.435	0.439	0.439	0.437	0.429	3.5
Chloroform	0.966	0.970	1.023	1.026	1.052	1.038	1.013	3.5
1,1,1-Trichloroethane	0.900	0.894	0.916	0.913	0.952	0.940	0.919	2.5
Methylcyclohexane	0.611	0.602	0.603	0.614	0.638	0.636	0.618	2.6
Benzene	1.308	1.312	1.360	1.391	1.463	1.461	1.383	5
1,2-Dichloroethane	0.348	0.348	0.360	0.369	0.383	0.384	0.365	4.5
Trichloroethene	0.334	0.325	0.344	0.343	0.357	0.347	0.342	3.3
1,2-Dichloropropane	0.321	0.307	0.318	0.323	0.342	0.339	0.325	4
Bromodichloromethane	0.452	0.449	0.449	0.464	0.493	0.494	0.467	4.5
4-Methyl-2-Pentanone	0.185	0.197	0.198	0.218	0.237	0.242	0.213	10.8
Toluene	0.782	0.805	0.842	0.868	0.929	0.957	0.864	7.9

* 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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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.400	0.414	0.416	0.434	0.472	0.473	0.435	7.1
cis-1,3-Dichloropropene	0.477	0.480	0.504	0.508	0.549	0.547	0.511	6.1
1,1,2-Trichloroethane	0.219	0.216	0.226	0.229	0.243	0.243	0.229	5.1
2-Hexanone	0.121	0.125	0.129	0.145	0.157	0.159	0.140	12
Dibromochloromethane	0.258	0.274	0.284	0.302	0.320	0.321	0.293	8.7
1,2-Dibromoethane	0.199	0.189	0.207	0.215	0.223	0.225	0.210	6.8
Tetrachloroethene	0.433	0.417	0.433	0.429	0.429	0.413	0.426	2.1
Chlorobenzene	1.020	1.000	1.051	1.067	1.132	1.127	1.066	5.1
Ethyl Benzene	1.823	1.828	1.920	1.980	2.142	2.185	1.980	7.8
m/p-Xylenes	0.698	0.660	0.723	0.756	0.825	0.841	0.751	9.5
o-Xylene	0.654	0.637	0.673	0.709	0.768	0.792	0.705	8.9
Styrene	1.037	1.020	1.117	1.197	1.317	1.359	1.175	12.1
Bromoform	0.169	0.176	0.184	0.192	0.206	0.210	0.189	8.6
Isopropylbenzene	3.863	3.741	3.946	3.871	4.105	4.086	3.935	3.6
1,1,2,2-Tetrachloroethane	0.623	0.574	0.604	0.615	0.652	0.653	0.620	4.8
1,3-Dichlorobenzene	1.587	1.558	1.674	1.695	1.836	1.874	1.704	7.5
1,4-Dichlorobenzene	1.596	1.527	1.617	1.642	1.707	1.687	1.629	4
1,2-Dichlorobenzene	1.383	1.332	1.431	1.416	1.495	1.482	1.423	4.3
1,2-Dibromo-3-Chloropropane	0.103	0.093	0.096	0.093	0.093	0.096	0.096	3.8
1,2,4-Trichlorobenzene	0.714	0.724	0.771	0.828	0.842	0.856	0.789	7.8
1,2,3-Trichlorobenzene	0.575	0.554	0.644	0.684	0.703	0.722	0.647	10.7
1,2-Dichloroethane-d4	0.507	0.525	0.517	0.532	0.541	0.538	0.527	2.5
Dibromofluoromethane	0.287	0.281	0.283	0.290	0.309	0.308	0.293	4.3
Toluene-d8	1.159	1.133	1.168	1.176	1.274	1.251	1.194	4.7
4-Bromofluorobenzene	0.377	0.331	0.345	0.355	0.382	0.376	0.361	5.7

* Compounds with required minimum RRF and maximum %RSD values.
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Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2150 SAS No.: Q2150 SDG No.: Q2150

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.433	0.542	0.495	0.413	0.397	0.405	0.448	13
Chloromethane	1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3
Vinyl Chloride	1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8
Bromomethane	1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8
Chloroethane	0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8
Trichlorofluoromethane	1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5
1,1,2-Trichlorotrifluoroethane	0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1
1,1-Dichloroethene	0.469	0.577	0.549	0.518	0.510	0.523	0.524	7
Acetone	0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6
Carbon Disulfide	1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2
Methyl tert-butyl Ether	1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4
Methyl Acetate	0.280	0.408	0.396	0.333	0.301	0.301	0.336	15.9
Methylene Chloride	0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7
trans-1,2-Dichloroethene	0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4
1,1-Dichloroethane	0.968	1.193	1.124	1.060	1.051	1.080	1.079	7
Cyclohexane	1.168	1.208	1.098	1.015	0.970	0.988	1.075	9.2
2-Butanone	0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6
Carbon Tetrachloride	0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5
cis-1,2-Dichloroethene	0.592	0.731	0.706	0.682	0.668	0.691	0.678	7
Bromochloromethane	0.470	0.477	0.479	0.454	0.469	0.474	0.471	1.9
Chloroform	0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9
1,1,1-Trichloroethane	0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4
Methylcyclohexane	0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9
Benzene	1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7
1,2-Dichloroethane	0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4
Trichloroethene	0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7
1,2-Dichloropropane	0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6
Bromodichloromethane	0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7
4-Methyl-2-Pentanone	0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1
Toluene	0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6
1,2-Dibromoethane	0.174	0.236	0.239	0.223	0.225	0.230	0.221	10.9
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3
1,2-Dibromo-3-Chloropropane	0.074	0.110	0.103	0.105	0.098	0.099	0.098	12.7
1,2,4-Trichlorobenzene	0.667	0.863	0.812	0.817	0.851	0.865	0.813	9.2
1,2,3-Trichlorobenzene	0.622	0.721	0.712	0.699	0.710	0.714	0.697	5.3
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6

* 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.