284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ARDM01

Lab Code: ACE SDG No.: Q2811

Instrument ID: MSVOA_N Calibration Date(s): 08/05/2025 08/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 13:37 15:01

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

LAB FILE ID: RRF005 = VN087452.D RRF020 = VN087453.D RRF050 = VN087454.D
RRF100 = VN087455.D RRF150 = VN087456.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Chloromethane	1.994	2.165	1.805	1.983	2.101		2.010	6.8
Vinyl Chloride	2.092	2.289	1.905	2.161	2.210		2.131	6.8
Bromomethane	1.027	1.160	1.070	1.220	1.291		1.154	9.3
Chloroethane	1.413	1.441	1.211	1.381	1.427		1.374	6.8
Trichlorofluoromethane	3.231	3.208	2.715	3.043	3.141		3.067	6.9
1,1-Dichloroethene	1.704	1.730	1.440	1.616	1.725		1.643	7.5
Acrolein	0.460	0.463	0.413	0.467	0.513		0.463	7.6
Acrylonitrile	1.353	1.358	1.193	1.335	1.382		1.324	5.7
Methylene Chloride	2.274	2.168	1.887	2.100	2.148		2.115	6.7
trans-1,2-Dichloroethene	2.081	2.014	1.729	1.927	2.019		1.954	7
1,1-Dichloroethane	3.979	4.147	3.567	3.949	4.076		3.944	5.7
Carbon Tetrachloride	0.536	0.520	0.474	0.527	0.535		0.518	4.9
Chloroform	4.236	4.223	3.738	4.105	4.280		4.116	5.4
1,1,1-Trichloroethane	0.651	0.618	0.571	0.636	0.645		0.624	5.2
Benzene	1.608	1.540	1.410	1.580	1.584		1.545	5.1
1,2-Dichloroethane	0.661	0.636	0.564	0.626	0.634		0.624	5.8
Trichloroethene	0.355	0.345	0.311	0.344	0.346		0.340	5
1,2-Dichloropropane	0.422	0.401	0.358	0.399	0.400		0.396	6
Bromodichloromethane	0.662	0.606	0.561	0.623	0.634		0.617	6
Toluene	1.975	1.905	1.689	1.854	1.835		1.852	5.7
t-1,3-Dichloropropene	0.676	0.663	0.618	0.700	0.702		0.672	5.1
cis-1,3-Dichloropropene	0.687	0.664	0.629	0.696	0.704		0.676	4.5
1,1,2-Trichloroethane	0.385	0.375	0.344	0.386	0.388		0.375	4.9
2-Chloroethyl vinyl ether	0.373	0.349	0.321	0.345	0.353		0.348	5.4
Dibromochloromethane	0.427	0.424	0.402	0.455	0.460		0.434	5.5
Tetrachloroethene	0.320	0.292	0.270	0.290	0.289		0.292	6.1
Chlorobenzene	1.218	1.156	1.030	1.149	1.135		1.138	6
Ethyl Benzene	2.154	2.115	1.892	2.094	2.064		2.064	4.9
m/p-Xylenes	0.796	0.768	0.702	0.768	0.753		0.758	4.6
o-Xylene	0.791	0.754	0.681	0.756	0.745		0.745	5.4

* 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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COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromoform	0.268	0.276	0.268	0.310	0.312		0.287	7.8
1,1,2,2-Tetrachloroethane	0.692	0.679	0.590	0.654	0.628		0.649	6.3
1,3-Dichlorobenzene	0.874	0.853	0.777	0.847	0.828		0.836	4.4
1,4-Dichlorobenzene	0.884	0.870	0.790	0.858	0.835		0.847	4.4
1,2-Dichlorobenzene	0.812	0.819	0.750	0.814	0.794		0.798	3.6
1,2-Dichloroethane-d4	2.772	2.838	2.776	2.704	2.746		2.767	1.8
Toluene-d8	1.413	1.382	1.386	1.386	1.336		1.380	2
4-Bromofluorobenzene	0.512	0.520	0.522	0.520	0.508		0.516	1.1

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.