



NTS LABS, LLC LONGMONT
1601 Dry Creek Drive
Suite 2000
Longmont, CO 80503
Mr. Eric Loucks Phone: 870-574-0031

MECHANICAL

Valid To: February 29, 2024

Certificate Number: 0214.44

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following environmental simulation tests on the following types of products: Aerospace, Automotive, Military, Medical and IT Equipment.

Test Technology/Equipment Parameters¹:

Test Method(s)^{2,3}:

Vibration¹

Electrodynamic Shakers:
Sine/Random/Mixed-Mode
Sine-on-Random, Random-on-Random
(5 to 2,000) Hz
1" Stroke
18,000 lbs force

MIL-STD-810² (Methods 514, 519, and 526);
RTCA/DO-160²;
MIL-STD-202E, F, and G (Methods 201, 203,
204, and 214);
MIL-STD-167 (Sections 5.1.2.4.2, 5.1.2.4.3,
and 5.1.2.4.6)

Siesmic Hydraulic Shaker:
(5 to 500) Hz
12" Stroke
12,000 lbs force

Shock¹

Vibration Shock – Electrodynamic Shakers:
(5 to 2,000) Hz
1" Stroke
18,000 lbs force
Up to 30 g's and 11 milliseconds

MIL-STD-810² (Method 516);
RTCA/DO-160²;
MIL-STD-202E, F, and G (Method 213)

Mechanical (Drop) Shock
Drop Towers

MIL-STD-810² (Method 516);
MIL-STD-202E, F, and G (Method 213)

Temperature/Altitude¹

(-50 to 80) °C
8,000 ft. to 55,000 ft.

RTCA/DO-160²;
MIL-STD-202E, F, and G (Method 213)

Rapid Decompression

55,000 ft. to 8,000 ft.

RTCA/DO-160²

Test Technology/Equipment Parameters¹:

Test Method(s)^{2,3}:

High Temperature¹
To 80 °C

MIL-STD-810² (Method 501)

Low Temperature¹
To -100 °C

MIL-STD-810² (Method 502)

Temperature Shock¹
(-50 to 125) °C

MIL-STD-810² (Method 503);
MIL-STD-202² (Method 107)

Temperature Humidity¹
(5 to 95) %RH
(20 to 60) °C

MIL-STD-810² (Method 507);
RTCA/DO-160²;
MIL-STD-202² (Method 103)

Temperature Cycling¹
(-50 to 80) °C

MIL-STD-810² (Method 520);
RTCA/DO-160²

¹Also using customer-specified methods directly related to the parameters and types of tests listed above.

²Accreditation includes all final published versions of this method.

³When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories.



Accredited Laboratory

A2LA has accredited

NTS LABS, LLC LONGMONT

Longmont, CO

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 27th day of July 2022.

A blue ink signature of Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0214.44
Valid to February 29, 2024
Revised August 9, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.