



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Engineered Testing Systems LLC

**1711 West 15th Street
Indianapolis, IN 46202**

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 14 August 2026

Certificate Number: L2397



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Engineered Testing Systems LLC

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TESTING

Valid to: **August 14, 2026**

Certificate Number: **L2397**

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Random Vibration	MIL-STD-810 MIL-STD-167-1 Shipboard Vibration RTCA/DO -160 MIL-S-4040	military, automotive, and commercial products and systems	up to 15 000 lb/f (10 to 3 000) Hz 2 in displacement p-p 200 g max level
Sine Vibration	MIL-STD-810 MIL-STD-167-1 Shipboard Vibration RCTA/DO – 160 MIL-S-4040	military, automotive, and commercial products and systems	up to 17 500 lb/f up to 3 000 Hz 2 in displacement p-p 100 g max level 70 in/sec
Shock	MIL-STD-810 RCTA/DO – 160 MIL-S-4040	military, automotive, and commercial products and systems	up to 35 000 lb/f 70 in/sec
Altitude	MIL-STD-810 MIL-PRF-28800 RCTA/DO -160 MIL-S-4040	military, automotive, and commercial products and systems	Up to 100 000 ft -71 ° C Decompression not more than 0.1 seconds
Over Pressure	RCTA/DO -160	military, automotive, and commercial products and systems	Up to 130 psi
Magnetic Effect	RTCA/DO-160	military, automotive, and commercial products and systems	Up to 3 meters distance 0.5 Degree

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Force	RTCA/DO-160 MIL-S-4040	military, automotive, and commercial products and systems	(0.1 to 1 000) lbs
Blowing Rain/ Rain/Drip Waterproofness	MIL-STD-810 RCTA/DO - 160	military, automotive, and commercial products and systems	Up to 50 MPH Up to 12 in/hr Rain
Temperature / Humidity	MIL-STD-810 RCTA/DO - 160	military, automotive, and commercial products and systems	(-72 to 191) °C (20 to 95) %RH
Acceleration	MIL-STD-810 RCTA/DO - 160	military, automotive, and commercial products and systems	up to 150 G, 469 RPM
Salt Spray (Fog)	MIL-STD-810 ASTM B117	military, automotive, and commercial products and systems	-
Explosive Atmosphere	MIL-STD-810, Method 511 MIL-STD-202, Method 109 RTCA-DO-160, Section 9	military, automotive, and commercial products and systems	-

Electromagnetic Compatibility

Test Method	Test Specification(s)	Range	Comments
Conducted Emissions	MIL-STD-461 RCTA/DO - 160	military, automotive, and commercial electronic systems	30 Hz to 26.5 GHz
Conducted Susceptibility/ Immunity	MIL-STD-461 RCTA/DO - 160	military, automotive, and commercial electronic systems	30 Hz to 20 GHz
Radiated Emissions	MIL-STD-461 RCTA/DO - 160	military, automotive, and commercial electronic systems	30 Hz to 18 GHz
Radiated Susceptibility/ Immunity	MIL-STD-461 RCTA/DO - 160	military, automotive, and commercial electronic systems	30 Hz to 26.5 GHz
Dielectric Withstanding	MIL-STD-461 RCTA/DO - 160 MIL-S-4040	military, automotive, and commercial electronic systems	(0.100 to 5.0) kV AC (0.100 to 6.0) kV DC (0.1 to 29.99) mA

Electromagnetic Compatibility

Test Method	Test Specification(s)	Range	Comments
Insulation Resistance	MIL-STD-461 RCTA/DO – 160 MIL-S-4040	military, automotive, and commercial electronic systems	50V/100V (1 to 1 990) MΩ 500V/1 000V (1 to 1 990) MΩ
DC Power Quality	MIL-STD-704	military, automotive, and commercial electronic systems	(0-120) VDC 16.7 A
Electro Static Discharge (ESD)	MIL-STD-461 IEC 61000-4-2	military, automotive, and commercial electronic systems	200 V-16.5 kV (Air) 200 V-9 kV (Contact)

Note:

1. Also using customer-specified test methods based on the parameters listed.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2397.



Jason Stine, Vice President

