



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)

20970 Centre Pointe Parkway

Santa Clarita, CA 91350

Joseph Gomez Phone: 661 259 8184

Email: joseph.gomez@nts.com

Website: <http://www.nts.com>

ACOUSTICS & VIBRATION

Valid To: March 31, 2020

Certificate Number: 0214.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following automotive, commercial, telecommunications, and aerospace testing:

Test:

Test Method(s):

Vibration¹

Electro Dynamic Shaker

- Sine, Random & Combined
- 45,000 Pounds Force
- 70,000 Pounds Force Dual Shakers
- 200 Grms
- (2 to 3,000) Hz
- 6,000 Hz with Resonant Fixture
- 2.0" Stroke

MIL-STD-331: B1 and B3;
MIL-STD-810: 514;
MIL-STD-167-1: 5.1, 5.2, and 5.3;
MIL-STD-202: 201, 204, and 214;
MIL-STD-883: 2005, 2006, 2007, and 2026;
MIL-STD-750: 2046, 2051, and 2056;
MIL-STD-2105: 5.1.2

Servo Hydraulic Shaker

- Sine, Random, and Shock
- 100,000 pounds force
- (2 to 500) Hz
- 150 inches/second
- 9.0" Stroke

RTCA DO 160, Section 8;
MIL-STD-810: 514 and 516

Shock¹

Electro Dynamic Shaker

- 120 inches/second Velocity
- 2.0" Stroke
- 6,000 SRS G

MIL-STD-810: 516 and 519;
MIL-STD-202: 203, 207, and 213;
MIL-STD-883: 2002;
MIL-STD-750: 2016;
MIL-STD-2102: 4.6 and 5.6;
RTCA DO 160, Section 7

Test:

Test Method(s):

Shock (cont.)¹

Drop Tower (Instrumented)

- 80 ft/sec

MIL-STD-810: 516 and 517

Impact Tower (Metal to Metal)

- 20,000 G at 3 axis Simultaneous

MIL-STD-810: 517

Pyro-shock (Ordnance Induced or Mechanical Induced)

- 100,000 G at 3 axis Simultaneous

MIL-STD-810: 517

Acoustic¹

Acoustic Reverberation

- Up to 165 dB
- 20 Hz to 85,000 Hz

MIL-STD-810: 515;
MIL-STD-740-1

Acoustic Progressive Wave Tube

- Up to 171 dB
- 20 Hz to 85,000 Hz

MIL-STD-810: 515;
MIL-STD-740-1

Acoustic Emissions

- 54dBA to 180dBA
20 Hz to 20,000 Hz
- 110dBA to 180dBA
20 Hz to 85,000 Hz

MIL-STD-740-1

¹Also using customer specifications based on the above standards and within the listed parameters.



Accredited Laboratory

A2LA has accredited

NATIONAL TECHNICAL SYSTEMS (NTS)

Santa Clarita, CA

for technical competence in the field of

Acoustics and Vibration Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 September 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 0214.05
Valid to March 31, 2020

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