

United States Department of Commerce  
National Institute of Standards and Technology



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**Certificate of Accreditation to ISO/IEC 17025:2017**

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NVLAP LAB CODE: 200974-0

**Shielding Integrity Services**  
Colorado Springs, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Electromagnetic Compatibility & Telecommunications**

*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 Communique on ISO/IEC 17025).*

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2025-03-20 through 2026-03-31

*Effective Dates*



A handwritten signature in blue ink, appearing to read 'Dana S. Gorman', is written over a horizontal line.

*For the National Voluntary Laboratory Accreditation Program*

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**Shielding Integrity Services**

4750 North Chestnut Street  
Colorado Springs, CO 80907

Adam Vankeuren

Phone: 719-635-7719

Email: adam.vankeuren@chambertest.com

<https://chambertest.com/>

**ELECTROMAGNETIC COMPATIBILITY &  
TELECOMMUNICATIONS**

**NVLAP LAB CODE 200974-0**

**Emissions**

**Designation**

ETSI TR 102 273-2 V1.2.1  
(2001-12)

ETSI TR 102 273-3 v1.2.1  
(2001-12), Parts 6.4.1-6.4.3 only

EN 50147-1 (1997)

EN 50147-2 (1997)

ANSI C63.4 (2014)

ANSI C63.4a (2017)

**Description**

Electromagnetic compatibility and Radio spectrum Matters (ERM); Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties; Part 2: Anechoic chamber

(ERM) - Improvement on Radiated Methods of Measurement (using test site) and evaluation of the corresponding measurement uncertainties. Part 3: Anechoic chamber with a ground plane.

*Section 6.4.1 - 30 MHz - 1000 MHz*

*Section 6.4.2 - Alternative procedure: 30 MHz to 1000 MHz*

*Section 6.4.3 - 1 GHz to 12.75 GHz*

Anechoic chambers. Shield attenuation measurement

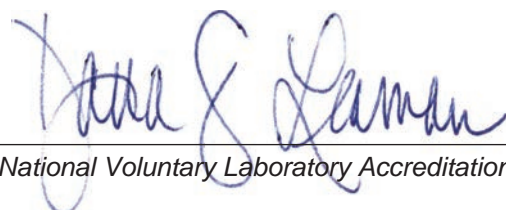
Anechoic chambers. Alternative test site suitability with respect to site attenuation

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment - NSA Only (30MHz - 1GHz)

*NSA and sVSWR Only (30 MHz – 18 GHz)*

American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz--Amendment 1: Test Site Validation

*NSA and sVSWR Only (30 MHz – 18 GHz)*



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## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

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ANSI C63.4 (2009)	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment - NSA only (30 MHz to 1GHz) <i>NSA only (30 MHz to 1GHz)</i>
ANSI C63.25.1-2018	American National Standard Validation Methods for Radiated Emission Test Sites, 1 GHz to 18 GHz
CISPR 16-1-4, Ed. 3.0 (2010-04)	Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements <i>Sections 5 and 8</i>
CISPR 16-1-4, Ed. 3.1 (2012-07)	Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements <i>Sections 5 and 8</i>
CISPR 16-1-4, Ed. 3.2 (2017-01)	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements <i>Sections 5 and 8</i>
CISPR 16-1-4, Ed. 4.0 (2019-01)	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements <i>Sections 6 and 7</i>
CISPR 16-1-4, Ed. 4.1 (2020-06)	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements <i>Sections 6 and 7</i>
CISPR 16-1-4, Ed. 4.2 (2023-04)	Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements <i>Sections 5, 6 and 7</i>
IEC/CISPR 25, Ed. 4.0 (2016-10)	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receiver - Annex J - ALSE performance validation 150 kHz to 1 GHz
IEC/CISPR 25, Ed. 5.0 (2021-12)	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receiver - Annex I (Informative) ALSE performance validation 150 kHz to 1 GHz
IEC/CISPR 25, Ed. 3.0 (2008-03)	Radio disturbance characteristics for the protection of receivers used on board vehicles, boats, and on devices - Limits and methods of measurement. NSA only. (70 MHz to 1GHz)

## ELECTROMAGNETIC COMPATIBILITY & TELECOMMUNICATIONS

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IEEE Std 149 (2021)	IEEE Recommended Practice for Antenna Measurements
IEEE Std 149-1979 (R2008)	VSWR/Free Space - 30 MHz to 100 GHz: Test Procedure for Antennas
IEEE Std 299-2006 (R2012)	IEEE Standard Method For Measuring The Effectiveness Of Electromagnetic Shielding Enclosures
IEEE Std 299-2006	Measuring the Effectiveness of Electromagnetic Shielding Enclosures
NSA NO. 94-106 (1994-10)	Radio Frequency (RF) for Shielded Enclosures

### Immunity

#### Designation

#### Description

IEC 61000-4-3, Ed. 4.0 (2020-09)	Electromagnetic compatibility (EMC) - Part 4-3: Testing measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-3, Ed. 3.2 (2010-04)	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test
IEC 61000-4-21, Ed. 2.0 (2011-01)	Electromagnetic compatibility (EMC) - Part 4-21: Testing and measurement techniques - Reverberation chamber test methods
IEC 61000-4-21, Ed. 1.0 (2003-08)	EMC-Part 4-21: Testing and measurement techniques Reverberation chamber test methods

### MIL-STD

#### Designation

#### Description

MIL-STD-188-125-1 Appendix A	Shielding Effectiveness (SE) Test Procedures for Fixed Facilities
MIL-STD-188-125-2 Appendix A	Shielding Effectiveness (SE) Test Procedures for Transportable Ground-based Systems