

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600310-0

ITC Engineering Services, Inc.
Sunol, CA

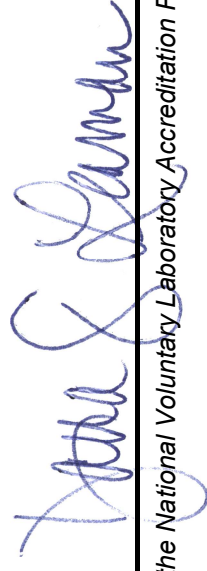
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

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 Communiqué on ISO/IEC 17025).*

2025-03-13 through 2026-03-31

Effective Dates

A handwritten signature in blue ink, appearing to read "Peter S. Lander".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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**ELECTROMAGNETIC COMPATIBILITY &
TELECOMMUNICATIONS**

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Emissions

Designation

KN 301 489-1 (Annex 8-1) w/ RRA
Announce 2016-79, Dec 19, 2016)

KN 301 489-17 (Annex 8-3) w/
RRA Announce 2016-79, Dec 19,
2016

ANSI C63.10 (2020)

ANSI C63.17 (2013)

ANSI C63.10 (2013)

ANSI C63.10 (2013)

ANSI C63.10 (2013)

FCC KDB 789033 (June 6, 2014)

Description

Test Methods for Electromagnetic Interference (RRA Announce 2016-79, Dec 19, 2016)
Korean only

Test Method for Electromagnetic Interference (RRA Announce 2016-79, Dec 19, 2016)
Korean only

American National Standard of Procedures for Compliance Testing of Unlicensed
Wireless Devices

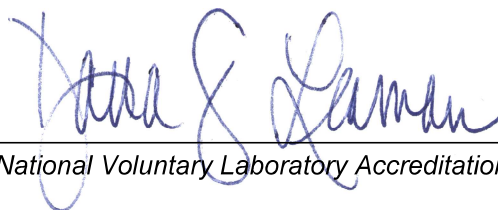
American National Standard Methods of Measurement of the Electromagnetic and
Operational Compatibility of Unlicensed Personal Communications Services (UPCS)
Devices

Intentional Radiators (up to 26.5 GHz) in 47 CFR FCC Part 15, Subpart C

Intentional Radiators (up to 26.5 GHz) in 47 CFR FCC Part 15, Subpart C and KDB
Publication 789033

Intentional Radiators (over 26.5 GHz) in 47 CFR FCC Part 15, Subpart C

Guidlines for Compliance Testing of Unlicensed National Information Infrastructure (U-
NII) Devices Part 15, Subpart E



For the National Voluntary Laboratory Accreditation Program

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FCC KDB 905462 (May 15, 2015)	Compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection
FCC KDB 789033 (April 8, 2016)	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part15, Subpart E
FCC KDB 789033 (May 2, 2017)	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
KN 11 (Annex 2) with RRA Announce 2016-79 (Dec 19, 2016)	Test Methods for Electromagnetic Compatibility; Korea only
KN 32 (Annex 11); RRA Announce 2016-19 (Dec. 19, 2016)	Test methods for electromagnetic compatibility; K only
RRA Public Notification 2016-26 (Dec.19 2016)	Technical Requirements for Electromagnetic Compatibility; Korea only
RRA Announce 2016-79 (Dec.19 2016)	Test Methods for Electromagnetic Compatibility

Radio

Designation

Description

AS/NZS 4268 (2017)	Radio equipment and systems-Short range devices-Limits and methods of measurement
ANSI C63.27 (2017)	American National Standard for Evaluation of Wireless Coexistence
MSIP Public Notification 2017-21 (March 31, 2017)	Technical Requirements for Radio Equipment, Unlicensed Radio Equipment Established Without Notice (K only)
RSS-132, Issue 3 (January 2013)	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz
RSS-132, Issue 3 (January 2013)	Cellular Telephones Employing New Technologies Operating in the Bands 824 - 849 MHz and 869 - 894 MHz
RSS-133, Issue 6 (January 2013) + Amendment (January 2018)	2 GHz Personal Communications Services
RSS-135, Issue 2 (June 2009)	Digital Scanner Receivers
RSS-210, Issue 9 (August 2016) + A1 (November 2017)	Licence-Exempt Radio Apparatus: Category I Equipment
RSS-215, Issue 2 (June 2009)	Analogue Scanner Receivers
RSS-247, Issue 2 (February 2017)	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
RSS-310, Issue 4 (July 2015)	Licence-Exempt Radio Apparatus: Category II Equipment

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RSS-Gen, Issue 5 (April 2018)

General Requirements for Compliance of Radio Apparatus

RF Exposure

<u>Designation</u>	<u>Description</u>
FCC KDB 865664 D01 (August 7, 2015)	SAR MEASUREMENT REQUIREMENTS FOR 100 MHz TO 6 GHz
FCC KDB 248227 D01 (October 23, 2015)	SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters
FCC KDB 680106 D01 (January 27, 2021)	RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications v03r01
FCC KDB 941225 D05A (October 23, 2015)	REL. 10 LTE SAR Test Guidance and KDB Inquiries
FCC KDB 941225 D05 (December 16, 2015)	SAR Evaluations Considerations for LTE Devices
FCC KDB 680106 (April 9, 2018)	RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications
FCC KDB 616217 D04 (October 23, 2015)	SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers
FCC KDB 615223 D01 (October 23, 2015)	802.16e/WIMAX SAR Measurement Guidance
FCC KDB 643646 D01 (October 23, 2015)	SAR Test Reduction Considerations for Occupational PTT Radios
OET Bulletin 65, Edition 97-01 (August 1997)	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Field
Supplement C, Edition 01-01 to OET Bulletin 65, Edition 97-01	Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions

Telecommunications

<u>Designation</u>	<u>Description</u>
FCC KDB 935210 D03 (February 12, 2016)	Signal Boosters (Part 20)- Wideband Consumer Signal Booster Compliance Measurement Guidance- Signal Booster Measurements v04
FCC KDB 935210 D04 (February 12, 2016)	Signal Boosters (Part 20)- Wideband Consumer Signal Booster Compliance Measurement Guidance- Provider Specific Booster Measurements v02
FCC KDB 935210 D05 (February 12, 2016)	Signal Boosters (Part 20)- Measurements Guidance for Industrial and Non-consumer Signal Booster, Repeater, and Amplifier Devices- Industry Booster Basic Measurements v01r01

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Accredited Test Methods in Support of FCC Approval Procedures

<u>Designation</u>	<u>Description</u>
IEEE 1528:2013	Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques; FCC requirements for RF Exposure- Devices subject to SAR requirements
ANSI C63.4 (2014)	Unintentional Radiators in 47 CFR FCC Part 15, Subpart B
ANSI C63.10 (2013)	Intentional Radiators in 47 CFR FCC Part 15, Subpart C
ANSI C63.17 (2013)	Unlicensed Personal Communications Service Devices in 47 CFR FCC Part 15, Subpart D
ANSI C63.10 (2013)	Unlicensed National Information Infrastructure Devices (U-NII) without DFS Intentional Radiators in 47 CFR FCC Part 15, Subpart E
FCC KDB 905462 D02 (April 8, 2016)	Compliance measurement procedures for unlicensed-national information infrastructure (U-NII) devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection; FCC Part 15 Subpart E
ANSI C63.10 (2013)	Ultra-Wideband Operation Intentional Radiators in 47 CFR FCC Part 15, Subpart F
ANSI C63.10 (2013)	Access Broadband Over Power Line (Access BPL) Intentional Radiators in 47 CFR FCC Part 15, Subpart G
ANSI C63.10 (2013)	White Space Device Intentional Radiators in 47 CFR FCC Part 15, Subpart H
FCC OST/MP-5 (1986)	FCC Methods of Measurement of Radio Noise Emissions for ISM Equipment (cited in 47 CFR FCC Part 18 - Industrial, Scientific, and Medical Equipment)