

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100431-0

PCTEST Engineering Laboratory, Inc.
Columbia, MD

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

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
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 dated 18 June 2005).*

2008-10-01 through 2009-09-30

Effective dates



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For the National Institute of Standards and Technology



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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**ELECTROMAGNETIC COMPATIBILITY
AND TELECOMMUNICATIONS**

NVLAP LAB CODE 100431-0

NVLAP Code Designation / Description

Emissions Test Methods:

| | |
|------------|--|
| 12/CIS22 | IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment |
| 12/CIS22a | IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996) |
| 12/CIS22b | CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment |
| 12/FCC15b | ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators |
| 12/FCC15c | ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart C: Intentional Radiators |
| 12/ICES003 | ICES-003 Issue 4 (2004): Implementation and Interpretation of the Interference-Causing Equipment Standard for Digital Apparatus. (Industry Canada) |
| 12/T51a | AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement |
| 12/VCCIa | VCCI: Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2005.04 |

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Immunity Test Methods:

| | |
|---------|--|
| 12/I01 | IEC 61000-4-2, Ed. 1.2 (2001) + A1, A2; EN 61000-4-2: Electrostatic Discharge Immunity Test |
| 12/I02 | IEC 61000-4-3, Ed. 2.0 (2002-03); EN 61000-4-3 (2002): Radiated Radio-Frequency Electromagnetic Field Immunity Test |
| 12/I03 | IEC 61000-4-4(1995), A1(2000), A2(2001); EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test |
| 12/I04 | IEC 61000-4-5, Ed. 1.1 (2001-04); EN 61000-4-5: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test |
| 12/I05 | IEC 61000-4-6, Ed. 2.0 (2003-05); EN 61000-4-6: Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields |
| 12/I06 | IEC 61000-4-8, Ed. 1.1 (2001); EN 61000-4-8: Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test |
| 12/I07 | IEC 61000-4-11, Ed. 1.1 (2001-03); EN 61000-4-11: Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests |
| 12/KN11 | KN 61000-4-11 with RRL Notice No. 2005-83 (Sept. 29, 2005): Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests |
| 12/KN2 | KN 61000-4-2 with RRL Notice No. 2005-83 (Sept. 29, 2005): Electrostatic Discharge Immunity Test |
| 12/KN3 | KN 61000-4-3 with RRL Notice No. 2005-83 (Sept. 29, 2005): Radiated, radio-frequency, electromagnetic field immunity test |

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- 12/KN4 KN 61000-4-4 with RRL Notice No. 2005-83 (Sept. 29, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Electrical Fast Transient/Burst Immunity Test
- 12/KN5 KN 61000-4-5 with RRL Notice No. 2005-83 (Sept. 29, 2005): Surge Immunity Test
- 12/KN6 KN 61000-4-6 with RRL Notice No. 2005-83 (Sept. 29, 2005): Electromagnetic compatibility (EMC): Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields
- 12/KN8 KN 61000-4-8 with RRL Notice No. 2005-83 (Sept. 29, 2005): Power Frequency Magnetic Field Immunity Test

Radio Test Methods

- 12/300220b ETSI EN 300 220-2 v1.3.1 (2000-09): ERM; Short Range Devices; Radio equipment to be used in the 25 MHz to 1,000 MHz frequency range with power levels ranging up to 550 mW; Part 2: Supplementary parameters not intended for conformity purposes
- 12/300328f ETSI EN 300 328 V1.6.1 (2004-07): ERM; Wideband Transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- 12/300330b ETSI EN 300 330-2 v1.1.1 (2001-06): ERM; Short Range Devices (SRD); Radio equipment in the frequency range 9kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive
- 12/301489a ETSI EN 301 489-1 v1.5.1 (2004-11): Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- 12/301489b ETSI EN 301 489-3 v1.4.1 (2002-08): Electromagnetic compatibility and Radio spectrum Matters; ElectroMagnetic Compatibility standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz

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12/301489f ETSI EN 301 489-7 v1.2.1 (2002-08): ERM; EMC standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)

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