

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-052
Expiration Date : February 28, 2023

[Name of Laboratory]

PFU Limited

[Test site name]

PFU Product Certification Center

[Test site Address]

Nu 98-2 Unoke, Kahoku-shi, Ishikawa, 929-1192 Japan

[Measurement Method]

Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test

[Test condition] **On the reference ground plane, Measurement distance : 3m/10m**
Measurement Frequency Range : 30 MHz – 1 GHz

[Test condition] **Quasi Free Space, Measurement Frequency Range : 1 GHz – 26.5 GHz**

Disturbance magnetic field strength measurement [Test condition] Loop Antenna

Conducted disturbance Measurement: AC mains port

Voltage measurement [Test condition] AMN, High impedance probe

Conducted disturbance Measurement: Telecommunication port

Voltage measurement [Test condition] ISN/AAN, Capacitive voltage probe

Current measurement [Test condition] Current probe

Conducted disturbance Measurement: DC mains port

Voltage measurement [Test condition] AMN, High impedance probe

Immunity test

Electro static discharge test

Contact discharge, Air discharge, Indirect discharge

Radiated electromagnetic field strength

Measurement frequency: 80 MHz – 6 GHz

Electrical fast transient/burst (EFT/B)

Mains port, Telecommunication/Signal port,

Immunity to transient disturbances conducted along supply lines / other than supply lines

Surge

Mains port, Telecommunication/Signal port

RF conducted interference

Mains port measurement frequency range:150 kHz – 80 MHz

Telecommunication/Signal port measurement frequency range:150 kHz – 80 MHz

Radiated magnetic field

Interruptions and Voltage variations

Harmonic current

Harmonic current test

Voltage changes, Voltage fluctuations and Flicker test

Telecommunication equipment performance 2

Magnetic field strength [Test condition] Magnetic probe

Environment (Power consumption)

Standard power consumption level TEC method

Operation method OM method

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

(Test standards)

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[Test Standards]

Emission test

VCCI Technical Requirements : VCCI-CISPR 32*¹

FCC 47 CFR Part 15 Subpart B : ANSI C63.4-2014, ANSI C63.4a-2017 (Up to 26.5 GHz)

ICES-003, AS/NZS CISPR 32*¹, CISPR 11*², CISPR 32*¹, CISPR22

IEC 61000-6-3, IEC 61000-6-4, IEC 61326-1, IEC 61326-2-6

EN 50370-1, EN 55011*², EN 55032*¹, EN 61000-6-3, EN 61000-6-4, EN 61326-1, EN 61326-2-6

JIS T 0601-1-2*³, IEC 60601-1-2*³, EN 60601-1-2*³

*¹ Except for broadcast receiver tuner port, RF modulator output port and outdoor unit of home satellite receiving systems

*² Except for DC power port *³ Except for electrical transient conduction along supply lines test

Immunity test

CISPR 24*⁴, CISPR 35*⁵,

IEC 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11,

IEC 61000-6-1, IEC 61000-6-2, IEC 61326-1, IEC 61326-2-6

EN 50370-2, EN 55024*⁴, EN 55035*⁵,

EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11,

EN 61000-6-1, EN 61000-6-2, EN 61326-1, EN 61326-2-6

JIS T 0601-1-2*³, IEC 60601-1-2*^{3,*6}, EN 60601-1-2*³,

*³ Except for electrical transient conduction along supply lines test *⁴ Except for sound pressure level test

*⁵ Except for broadcast receiver tuner port, RF modulator output port, xDSL port and sound pressure level test

*⁶ Except for proximity magnetic fields

Harmonic Test in Public Low Voltage Systems

IEC 61000-3-2, IEC 61000-3-3, EN 61000-3-2, EN 61000-3-3, JIS C 61000-3-2

JIS T 0601-1-2, IEC 60601-1-2, EN 60601-1-2

Telecommunication characteristic 2

IEC 62233, IEC 62311(Only for 10 Hz - 400 kHz)

EN 62233, EN 62311(Only for 10 Hz - 400 kHz), EN 62479(Only for inherently compliant)

Environment (Power consumption)

International Energy Star Program operational byelaw: Imaging Equipment

USA Energy Star program operational byelaw: Imaging Equipment

EN 50564, EN 50643, IEC 62301

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