

Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-029

Expiration Date : February 9, 2024

[Name of Laboratory]

Sharp Corporation

[Test site name]

Sharp Nara Test Center

[Test site Address]

492 Minosho-Cho, Yamatokoriyama-Shi, Nara 639-1186, 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 – 30 GHz**

Conducted disturbance Measurement: AC mains port

Voltage measurement [Test condition] AMN

Conducted disturbance Measurement: Telecommunication port

Voltage measurement [Test condition] ISN/AAN

Immunity test

Electro static discharge test

Contact discharge, Air discharge, Indirect discharge

Radiated electromagnetic field strength

Measurement frequency range: 80 MHz – 6 GHz

Electrical fast transient/burst (EFT/B)

Mains port, Telecommunication/Signal port

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

Acoustics

Airborne noise emission test

Telecommunication equipment performance 1

Based on European standards

Voluntary EMC Laboratory Accreditation Center Inc.

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(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 (Up to 26.5 GHz / 30 GHz(Class A Only))

CISPR 22, CISPR 32^{*1}, EN 55032^{*1}

**Technical requirements under the Electrical Appliances and Materials safety Act appendix 10
Chapter 4**

J55032^{*1}, CISPRJ 32^{*1}

AS/NZS CISPR 32^{*1}, ICES-003

***1: Except for broadcast radio receivers**

Immunity test

CISPR 24^{*2}, EN 55024^{*2}, CISPR 35^{*3}, EN 55035^{*3}

***2: Except for Annex A and Annex H**

***3: Except for Annex A, Annex E and Annex H**

Harmonic Test in Public Low Voltage Systems

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

Airborne noise emission test

ISO 7779, JIS X 7779, ECMA-74

German Blue Angel Mark: RAL-UZ 122, RAL-UZ 171, RAL-UZ 205, DE-UZ 205, DE-UZ 219

Japan Environment Association Eco Mark products category: No.117, No.122, No.155

Telecommunication equipment performance 1

EN 301 489-1/ -3/ -17, EN 300 330 (Class1, 13.56MHz Only)

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