

Scope of Accreditation

(Measurement Method)

Accreditation Number: VLAC-031

Expiration Date: April 25, 2025

[Name of Laboratory]

Mitsubishi Electric Engineering Co., Ltd.

[Test site name]

EMC Shizuoka Center

[Test site Address]

3-4-12 Toyoda Suruga-ku, Shizuoka-city, Shizuoka-pref. 422-8027 Japan

[Measurement Methods]

Emission test

Radiated disturbance: Enclosure Port

Disturbance electric field test

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

[Test condition] **Quasi Free Space
Measurement Frequency Range: 1 GHz - 6 GHz**

Disturbance power measurement [Test condition] **Absorbing clamp**

Conducted disturbance Measurement: AC mains port

Voltage Measurement [Test condition] **AMN, High-impedance probe**

Conducted disturbance Measurement: DC power line port

Voltage Measurement [Test condition] **AMN, High impedance probe**

Conducted disturbance Measurement: Telecommunication port

Voltage Measurement [Test condition] **ISN, AAN**

Current Measurement [Test condition] **Current probe**

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 - 230 MHz**

Telecommunication/Signal port measurement Frequency Range: 150 kHz - 230 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 (Magnetic probe)

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}

Technical requirements under the Electrical Appliances and Materials safety Act appendix 10
Chapter 4, Chapter 5 and chapter 7

J55011^{*2}, J55014-1, J55032^{*1}

FCC 47 CFR Part 15 Subpart B: ANSI C63.4-2014 (up to 6 GHz) ^{*3}

FCC 47 CFR Part 18: FCC MP-5 (February 1986) (up to 6 GHz)

CISPR 11^{*2}, CISPR 14-1^{*2}, CISPR 32^{*1}

EN 55011^{*2}, EN 55014-1:2017+A11:2020^{*2}, EN IEC 55014-1^{*2}, EN 55032^{*1}

IEC 61000-6-3, EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-3

IEC 61000-6-4, EN 61000-6-4:2007+A1:2011, EN IEC 61000-6-4

IEC 61800-3, EN 61800-3:2004+A1:2012, EN IEC 61800-3

IEC 61326-1, EN 61326-1:2013, EN IEC 61326-1, JIS C 61326-1

^{*1}: Except for broadcast radio receivers

^{*2}: Except for magnetic field measurements below 30 MHz

^{*3}: Except for Section 12

Immunity test

CISPR 14-2, EN 55014-2:1997+A1:2001+A2:2008, EN IEC 55014-2

IEC 61000-6-1, EN 61000-6-1:2007, EN IEC 61000-6-1

IEC 61000-6-2, EN 61000-6-2:2005, EN IEC 61000-6-2

IEC 61800-3, EN 61800-3:2004+A1:2012, EN IEC 61800-3

IEC 61326-1, EN 61326-1:2013, EN IEC 61326-1, JIS C 61326-1

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

Harmonic Test in Public Low Voltage Systems

IEC 61000-3-2, EN 61000-3-2:2014, EN IEC 61000-3-2, JIS C 61000-3-2

IEC 61000-3-3:2013+A1:2017+A2:2021+Cor1:2022, EN 61000-3-3

IEC 61000-3-11, EN 61000-3-11:2000, EN IEC 61000-3-11

IEC 61000-3-12, EN 61000-3-12

IEC 61000-6-3, EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-3

IEC 61800-3, EN 61800-3:2004+A1:2012, EN IEC 61800-3

IEC 61326-1, EN 61326-1:2013, EN IEC 61326-1, JIS C 61326-1

Telecommunication equipment performance 2

IEC 62233, EN 62233

Voluntary EMC Laboratory Accreditation Center Inc.

**The laboratory is only accredited for testing activities outlined within the test methods listed above.
If test standards do not include the edition, it means the latest one at the date of renewal (4.26, 2023).**