

# Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-001-3

Expiration Date : March 30, 2022

[Name of Laboratory]

Japan Quality Assurance Organization

[Test site name]

Chubu Testing Center, Shikatsu EMC Branch

[Test site Address]

53-1, Yamaura, Yakushiji, Kitanagoya-shi, Aichi-ken

[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 – 18 GHz

Disturbance magnetic field strength measurement

[Test condition] Loop Antenna

Disturbance power measurement

[Test condition] Absorption Clump (CMAD)

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

Current measurement [Test condition] Current probe

Conducted disturbance Measurement: DC power line 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 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 1

Tests Based on European Standards

## Telecommunication equipment performance 2

Magnetic field strength [Test condition] Magnetic Field probe

Electrical field strength [Test condition] Electric Field probe

**Voluntary EMC Laboratory Accreditation Center Inc.**

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## (Test standards)

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[Test standards]

### **Emission test**

VCCI technical requirement : VCCI-CISPR 32<sup>\*1</sup>

FCC 47 CFR Part 15 Subpart B: ANSI C63.4-2014 (up to 18 GHz)

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

CISPR 11, CISPR 12, CISPR 14-1, CISPR 22, CISPR 32<sup>\*1</sup>

EN 55011, EN 55012, EN 55014-1, EN 55022, EN 55032<sup>\*1</sup>

J55001, J55011, J55014-1, J55022, J55032<sup>\*1</sup>, CISPRJ 32<sup>\*1</sup>

Technical requirements under the Electrical Appliances and Materials safety Act appendix 10 Chapter 2/3/4/5/6/7/8

Enforcement rule of Radio Law: Article 46.7 (Microwave Oven or IH Cooking Heater)

Regulations for Enforcement of the Radio Law: Article 46.7 (Microwave Oven or IH Cooking Heater)

AS CISPR 11, AS/NZS CISPR 12, AS CISPR 14.1, AS/NZS CISPR 22, AS/NZS CISPR 32<sup>\*1</sup>

AS/NZS 3200.1.2, AS/NZS 61000.6.3, AS/NZS 61000.6.4

KN 11, KS C 9811<sup>\*3</sup>, KN 12, KN 14-1, KS C 9814-1<sup>\*3</sup>, KN 22, KN 32<sup>\*1</sup>, KS C 9832<sup>\*1,\*3</sup>

KN 61000-6-3, KS C 9610-6-3<sup>\*3</sup>, KN 61000-6-4, KS C 9610-6-4<sup>\*3</sup>

IEC 61000-6-3, IEC 61000-6-4, EN 61000-6-3, EN 61000-6-4

IEC 60533, EN 60533, IEC 60945, EN 60945, IEC 61131-2, EN 61131-2

ICES-001, ICES-002, ICES-003, CNS 13803, CNS 13438, CNS 13783-1

GB 14023, GB 4343.1, GB4824, GB 9254, GB 17799.3, GB 17799.4

GOST R51317.6.3, GOST R51317.6.4

GOST R51318.11, GOST R51318.12, GOST R51318.14.1, GOST R51318.22

Nippon Kaiji Kyokai Technical rule of Materials and Equipment for Marine Use : Article 7 Chapter 1

JIS F 8081, IACS UR E10

IEC 61326-1, IEC 61326-2-3/-2-6, EN 61326-1, EN 61326-2-3/-2-6

JIS C 61326-1, JIS C 61326-2-3/-2-6, JIS C 1806-1, JIS C 1806-2-3/-2-6

IEC 60601-1-2, IEC 60601-2-10/-2-24, EN 60601-1-2, EN 60601-2-10/-2-24

JIS T 0601-1-2, JIS T 0601-2-10/-2-24, KN 60601-1-2, KS C IEC 60601-1-2<sup>\*3</sup>, KN 60601-2-10/-2-24

YY 0505

\*<sup>1</sup> : Except for broadcast radio receivers

\*<sup>3</sup> : Added as of April 20, 2021

## **Immunity test**

CISPR 14-2, CISPR 24, CISPR 35<sup>\*2</sup>, EN 55014-2, EN 55024, EN 55035<sup>\*2</sup>, JEITA IT-3001A  
IEC 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11/-4-29, EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11/-4-29  
IEC 61000-6-1/-6-2/-6-7, EN 61000-6-1/-6-2/-6-7, JIS C 61000-6-1, JIS C 61000-6-2  
IEC 61131-2, EN 61131-2, IEC 60947-5-2, EN 60947-5-2  
AS/NZS CISPR 14.2, AS/NZS CISPR 24, AS/NZS 3200.1.2, AS/NZS 61000.6.1, AS/NZS 61000.6.2  
KN14-2, KS C 9814-2<sup>\*3</sup>, KN 24, KN 35<sup>\*2</sup>, KS C 9835<sup>\*2,\*3</sup>  
KN 61000-6-1, KS C 9610-6-1<sup>\*3</sup>, KN 61000-6-2, KS C 9610-6-2<sup>\*3</sup>  
GB 4343.2, GOST R51317.6.1, GOST R51318.14.2, GOST R51318.24, GOST R 51317.6.2  
Nippon Kaiji Kyokai Technical rule of Materials and Equipment for Marine Use : Article 7 Chapter 1  
IACS UR E10  
IEC 61326-1, IEC 61326-2-3/-2-6, EN 61326-1, EN 61326-2-3/-2-6  
JIS C 61326-1, JIS C 61326-2-3/-2-6, JIS C 1806-1, JIS C 1806-2-3/-2-6, JIS C1806-3-1  
IEC 60601-1-2, IEC 60601-2-10/-2-24, EN 60601-1-2, EN 60601-2-10/-2-24  
JIS T 0601-1-2, JIS T 0601-2-10/-2-24, KN 60601-1-2, KS C IEC 60601-1-2<sup>\*3</sup>, KN 60601-2-10/-2-24  
YY 0505  
<sup>\*2</sup> : Except for Annex A and Annex H  
<sup>\*3</sup> : Added as of April 20, 2021

## **Harmonic Test in Public Low Voltage Systems**

IEC 61000-3-2, IEC 61000-3-3, EN 61000-3-2, EN 61000-3-3, JIS C61000-3-2  
IEC 61000-6-3, EN 61000-6-3, KN 61000-6-3, KS C 9610-6-3<sup>\*3</sup>  
AS/NZS 3200.1.2, AS/NZS 61000.3.2, AS/NZS 61000.3.3, AS/NZS 61000.6.3  
GB 17625.1, GB 17625.2, GB17799.3  
GOST R51317.3.2, GOST R51317.3.3, GOST R51317.6.3  
IEC 61326-1, IEC 61326-2-3/-2-6, EN 61326-1, EN 61326-2-3/-2-6  
JIS C 61326-1, JIS C 61326-2-3/-2-6, JIS C 1806-1, JIS C 1806-2-3/-2-6  
IEC 60601-1-2, IEC 60601-2-10/-2-24, EN 60601-1-2, EN 60601-2-10/-2-24  
JIS T 0601-1-2, JIS T 0601-2-10/-2-24, KN 60601-1-2, KS C IEC 60601-1-2<sup>\*3</sup>, KN 60601-2-10/-2-24  
YY 0505  
<sup>\*3</sup> : Added as of April 20, 2021

## **Telecommunication equipment performance 1**

EN 301 489-1/-3/-17

## **Telecommunication equipment performance 2**

IEC 62311, EN 62311, IEC 62233, EN 62233

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