

Scope of Accreditation

(Measurement Method)

Accreditation Number: VLAC-018-4

Expiration Date: September 7, 2025

[Name of Laboratory]

e-OHTAMA, LTD.

[Test site name]

Noborito Laboratory

[Test site Address]

294 Noborito, Tama-ku, Kawasaki-shi, Kanagawa 214-0014, Japan

[Measurement Method]

Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test

[Test Condition] On the reference ground plane, In-vehicle equipment test (1m Method)

Measurement Frequency Range: 9 kHz – 18 GHz

Disturbance magnetic field strength measurement

[Test Condition] Loop Antenna

Conducted disturbance measurement: AC mains port

Disturbance voltage measurement [Test Condition] AMN

Conductive interference measurement: Telecommunication port

Disturbance current measurement [Test Condition] Current probe

Conductive interference measurement: DC power line port

Disturbance voltage measurement [Test Condition] AMN

Current measurement [Test Condition] Current probe

Conductive interference test against in-vehicle equipment

Immunity test

Electro static discharge test

Contact discharge, Air discharge, Indirect discharge

**Radiated electromagnetic field strength
against in-vehicle**

Measurement frequency: 10 kHz – 18 GHz

Measurement Frequency Range: 200 MHz – 5 GHz

**Radiated fields in close proximity
against in-vehicle**

Measurement Frequency Range: 360 MHz – 6 GHz

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

Surge

Mains port, Telecommunication/Signal port

RF conducted interference

Bulk current injection test, measurement frequency range: 10 kHz – 400 MHz

Road vehicles - Immunity to magnetic fields

Interruptions and Voltage variations

Vehicle /In-vehicle equipment test

ESA (In-vehicle equipment) Emission

ESA (In-vehicle equipment) Immunity

Defense and Aerospace

Conductive emissions, conductive Immunity

Radiation emissions, radiation Immunity

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

(Test standards)

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[Test standards]

Vehicle /In-vehicle equipment test

ECE R-10 (Clause 6.5, 6.6, 6.7, 6.8 and 6.9)

CISPR 25:2002 / 2008 / 2016, EN 55025:2017

ISO 11452-2 (200 MHz - 5 GHz):2004 / 2019

ISO 11452-4:2001 / 2005 / 2011(only BCI method)

ISO 11452-8:2007 / 2015

ISO 11452-9 (only Broadband antenna):2012

ISO 7637-2:2004 / 2011

ISO 7637-3 (only CCC method):2007 / 2016

ISO 16750-2:2006(only Starting profile) / 2012(only Load dump and Starting profile)

ISO 10605:1994 / 2001 / 2008

EN 50498:2010

ISO 13766-1:2018^{*1}, EN ISO 13766-1:2018^{*1}, ISO 13766-2:2018^{*1}, EN ISO 13766-2:2018^{*1}

^{*1}: Only ESA

Defense and Aerospace

MIL-STD-461D/462D (CE101, CE102, CS101, CS114^{*3}, RE101, RE102, RS101, RS103^{*2})

MIL-STD-461E (CE101, CE102, CS101, CS114^{*3}, RE101, RE102, RS101, RS103^{*2 *4})

MIL-STD-461F (CE101, CE102, CS101, CS114^{*3}, RE101, RE102, RS101, RS103^{*2 *5})

MIL-STD-461G (CE101, CE102, CS101, CS114^{*3}, CS118, RE101, RE102, RS101, RS103^{*2 *6})

^{*2}: up to 18 GHz

^{*3}: Measurement frequency 10 kHz – 200 MHz

^{*4}: Without 5.19.4

^{*5}: Without 5.20.4

^{*6}: Without 5.21.4

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 (9.8, 2023).