

# Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-012

Expiration Date : November 21, 2022

[Name of Laboratory]

NEC Platforms, Ltd.

[Test site name]

Kakegawa EMC Center

[Test site Address]

800, Shimomata, Kakegawa-shi, Shizuoka, 436-8501, Japan

[Measurement Method]

## Emission test

Radiated disturbance : Enclosure Port

Disturbance electric field test

[Test condition] On the reference ground plane, Measurement Distance : 3m

Measurement Frequency Range : 30 MHz – 1 GHz

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

Measurement Frequency Range : 150 kHz – 2.5 GHz

[Test condition] Quasi Free Space

Measurement Frequency Range : 1 GHz – 6 GHz

Conducted disturbance Measurement: AC mains port

Voltage Measurement [Test condition] AMN

Conductive interference DC power line port

Voltage Measurement [Test condition] AMN

Conducted disturbance Measurement: Telecommunication port

Voltage Measurement [Test condition] AAN, Capacitive voltage probe, 150Ω Load

Current Measurement [Test condition] Current probe

Disturbance electric field test Antenna port / Optical fiber port

Voltage test [Test condition] AAN, Capacitive voltage probe, 150Ω Load

Current test [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 – 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

## Vehicle /In-vehicle equipment test

ESA (In-vehicle equipment) Emission

**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\*<sup>1</sup>**

**CISPR 32\*<sup>1</sup>, EN 55032\*<sup>1</sup>**

**\*<sup>1</sup>: Except for broadcast receiver ability including the satellite receiver**

## **Immunity test**

**CISPR 24, EN 55024**

**CISPR 35\*<sup>2</sup>, EN 55035\*<sup>2</sup>,**

**IEC 61000-4-2\*<sup>3</sup>/-4-3\*<sup>3</sup>/-4-4\*<sup>3</sup>/-4-5\*<sup>3</sup>/-4-6\*<sup>3</sup>/-4-8\*<sup>3</sup>/-4-11\*<sup>3</sup>**

**EN 61000-4-2\*<sup>3</sup>/-4-3\*<sup>3</sup>/-4-4\*<sup>3</sup>/-4-5\*<sup>3</sup>/-4-6\*<sup>3</sup>/-4-8\*<sup>3</sup>/-4-11\*<sup>3</sup>**

**JIS C 61000-4-2\*<sup>3</sup>/-4-3\*<sup>3</sup>/-4-4\*<sup>3</sup>/-4-5\*<sup>3</sup>/-4-6\*<sup>3</sup>/-4-8\*<sup>3</sup>/-4-11\*<sup>3</sup>**

**\*<sup>2</sup>: Except for outdoor unshielded symmetrical port, xDSL port, Annex A, Annex E**

**\*<sup>3</sup>: Applied to MME only**

## **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**

## **Vehicle /In-vehicle equipment test**

**CISPR 25\*<sup>4</sup>, EN 55025\*<sup>4</sup>**

**ECE R-10 Clause 6.5, 6.6**

**\*<sup>4</sup>: LV components/modules only**

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