

EMI TEST REPORT

Test Report No. 15702455H-B-R1

| | |
|---------------------|----------------------------|
| Customer | NIDEC MOBILITY CORPORATION |
| Description of EUT | Body Control Module |
| Model Number of EUT | K84S0 |
| FCC ID | OUCK84S0 |
| Test Regulation | FCC Part 15 Subpart B |
| Test Result | Complied |
| Issue Date | April 22, 2025 |
| Remarks | - |

Representative test engineerTetsuro Yoshida
Engineer**Approved by**Akihiko Maeda
Leader

CERTIFICATE 5107.02

- ☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.
- ☒ There is no testing item of "Non-accreditation".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 24.0

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REVISION HISTORY

Original Test Report No. 15702455H-B

This report is a revised version of 15702455H-B. 15702455H-B is replaced with this report.

| Revision | Test Report No. | Date | Page Revised Contents |
|-----------------|-----------------|----------------|---|
| - (Original) | 15702455H-B | March 25, 2025 | - |
| 1 | 15702455H-B-R1 | April 22, 2025 | Section 2.2 Radio Specification [Receiver part] -Added IF frequency. APPENDIX 1 -Added below explanatory note. "The data No.6 and No.11 are for Local oscillator frequency (LOF). Although the measured frequency deviates from LOF, the frequency that is maximum in the vicinity of LOF is obtained." |

Reference: Abbreviations (Including words undescribed in this report)

| | | | |
|------------------|---|-----------------|---|
| A2LA | The American Association for Laboratory Accreditation | Hori. | Horizontal |
| AAN | Asymmetric Artificial Network | ICES | Interference-Causing Equipment Standard |
| AC | Alternating Current | I/O | Input/Output |
| AE | Auxiliary equipment | IEC | International Electrotechnical Commission |
| AM | Amplitude Modulation | IEEE | Institute of Electrical and Electronics Engineers |
| AMN | Artificial Mains Network | IF | Intermediate Frequency |
| Amp, AMP | Amplifier | ILAC | International Laboratory Accreditation Conference |
| ANSI | American National Standards Institute | ISED | Innovation, Science and Economic Development Canada |
| Ant, ANT | Antenna | ISN | Impedance Stabilization Network |
| AP | Access Point | ISO | International Organization for Standardization |
| ASK | Amplitude Shift Keying | JAB | Japan Accreditation Board |
| Atten., ATT | Attenuator | LAN | Local Area Network |
| AV | Average | LCL | Longitudinal Conversion Loss |
| BPSK | Binary Phase-Shift Keying | LIMS | Laboratory Information Management System |
| BR | Bluetooth Basic Rate | LISN | Line Impedance Stabilization Network |
| BT | Bluetooth | MRA | Mutual Recognition Arrangement |
| BT LE | Bluetooth Low Energy | N/A | Not Applicable |
| BW | BandWidth | NIST | National Institute of Standards and Technology |
| C.F | Correction Factor | NS | No signal detect. |
| Cal Int | Calibration Interval | NSA | Normalized Site Attenuation |
| CAV | CISPR AV | OBW | Occupied BandWidth |
| CCK | Complementary Code Keying | OFDM | Orthogonal Frequency Division Multiplexing |
| CDN | Coupling Decoupling Network | PER | Packet Error Rate |
| Ch., CH | Channel | PK | Peak |
| CISPR | Comite International Special des Perturbations Radioelectriques | P _{LT} | long-term flicker severity |
| Corr. | Correction | POHC(A) | Partial Odd Harmonic Current |
| CPE | Customer premise equipment | Pol., Pola. | Polarization |
| CW | Continuous Wave | PR-ASK | Phase Reversal ASK |
| DBPSK | Differential BPSK | P _{ST} | short-term flicker severity |
| DC | Direct Current | QAM | Quadrature Amplitude Modulation |
| DET | Detector | QP | Quasi-Peak |
| D-factor, D.fac. | Distance factor | QPSK | Quadrature Phase Shift Keying |
| Dmax | maximum absolute voltage change during an observation period | r.m.s., RMS | Root Mean Square |
| DQPSK | Differential QPSK | RBW | Resolution BandWidth |
| DSSS | Direct Sequence Spread Spectrum | RE | Radio Equipment |
| DUT | Device Under Test | REV | Reverse |
| EDR | Enhanced Data Rate | RF | Radio Frequency |
| e.i.r.p., EIRP | Equivalent Isotropically Radiated Power | RFID | Radio Frequency Identifier |
| EM clamp | Electromagnetic clamp | RNSS | Radio Navigation Satellite Service |
| EMC | ElectroMagnetic Compatibility | RSS | Radio Standards Specifications |
| EMI | ElectroMagnetic Interference | Rx | Receiving |
| EMS | ElectroMagnetic Susceptibility | S.fac. | Site factor |
| EN | European Norm | SINAD | Ratio of (Signal + Noise + Distortion) to (Noise + Distortion) |
| e.r.p., ERP | Effective Radiated Power | S/N | Signal to Noise ratio |
| ETSI | European Telecommunications Standards Institute | SA, S/A | Spectrum Analyzer |
| EU | European Union | SABS | South African Bureau of Standards |
| EUT | Equipment Under Test | SANS | South African National Standards |
| Fac. | Factor | SG | Signal Generator |
| FCC | Federal Communications Commission | SVSWR | Site-Voltage Standing Wave Ratio |
| FHSS | Frequency Hopping Spread Spectrum | THC(A) | Total Harmonic Current |
| FM | Frequency Modulation | THD(%) | Total Harmonic Distortion |
| Freq. | Frequency | TR, T/R | Test Receiver |
| FSK | Frequency Shift Keying | Tx | Transmitting |
| Fund | Fundamental | UFA | Uniform field area |
| FWD | Forward | VBW | Video BandWidth |
| GFSK | Gaussian Frequency-Shift Keying | Vert. | Vertical |
| GNSS | Global Navigation Satellite System | WLAN | Wireless LAN |
| GPS | Global Positioning System | xDSL | Generic term for all types of DSL technology (DSL: Digital Subscriber Line) |

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SECTION 1: Customer information

| | |
|------------------|--|
| Company Name | NIDEC MOBILITY CORPORATION |
| Address | 6368, Nenjozaka, Okusa, Komaki, Aichi, 485-0802, Japan |
| Telephone Number | +81-568-78-6159 |
| Contact Person | Takashi Betsui |

The information provided by the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing

SECTION 2: Equipment under test (EUT)

2.1 Identification of EUT

| | |
|---------------|---|
| Description | Body Control Module |
| Model Number | K84S0 |
| Serial Number | Refer to SECTION 4.2 |
| Condition | Production prototype (Not for Sale: This sample is equivalent to mass-produced items.) |
| Modification | No Modification by the test lab |
| Receipt Date | February 21, 2025 |
| Test Date | February 27, 2025 |

2.2 Product Description

General Specification

| | |
|-----------------------|---|
| Rating | DC 12 V |
| Operating temperature | Except Antennas: -40 deg. C to 85 deg. C Antennas: -40 deg. C to 90 deg. C |

Radio Specification

[Transmitter part]

| | |
|------------------------|-------------|
| Equipment Type | Transceiver |
| Frequency of Operation | 125 kHz |
| Type of Modulation | ASK |

[Receiver part]

| | |
|------------------------|----------------------------|
| Equipment Type | Receiver |
| Frequency of Operation | 433.92 MHz |
| IF frequency | 274 kHz (Upper heterodyne) |

SECTION 3: Test specification, procedures & results

3.1 Test Specification

| | |
|--------------------|--|
| Test Specification | FCC Part 15 Subpart B The latest version on the first day of the testing period |
| Title | FCC 47CFR Part15 Radio Frequency Device Subpart B Unintentional Radiators |

3.2 Procedures and results

| Item | Test Procedure | Limits | Worst margin | Result | Remarks |
|--------------------|--|--|--|----------|---------|
| Conducted emission | FCC: ANSI C63.4: 2014 + C63.4a: 2017 7. AC power - line conducted emission measurements | FCC: Part 15 Subpart B 15.107(a) | - | N/A | *1) |
| | ISED: RSS-Gen 7.1 | ISED: RSS-Gen 7.2 | | | |
| Radiated emission | FCC: ANSI C63.4: 2014 + C63.4a: 2017 8. Radiated emission measurements | FCC: Part 15 Subpart B 15.109(a) | 19.29 dB 299.991 MHz, Horizontal, QP | Complied | - |
| | ISED: RSS-Gen 7.1 | ISED: RSS-Gen 7.3 | | | |
| | ISED: RSS-Gen 7.1 | ISED: RSS-Gen 7.4 | | | |
| Antenna Terminal | FCC: ANSI C63.4: 2014 + C63.4a: 2017 12. Measurement of unintentional radiators other than ITE | FCC: Part 15 Subpart B 15.111(a) | - | N/A | *2) |
| | ISED: RSS-Gen 7.1 | ISED: RSS-Gen 7.4 | | | |

* Note: UL Japan, Inc.'s EMI Work Procedure: Work Instructions-ULID-003591.

*1) The test is not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.

*2) The receiving antenna (of this EUT) is installed inside the EUT and cannot be removed (permanently attached). Therefore, Radiated emission test was performed.

3.3 Addition to standard

No addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement.
Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k = 2$.

Radiated emission

| Measurement distance | Frequency range | | Unit | Calculated Uncertainty (+/-) |
|----------------------|---------------------|------------|------|------------------------------|
| 3 m | 9 kHz to 30 MHz | | dB | 3.3 |
| 10 m | | | dB | 3.1 |
| 3 m | 30 MHz to 200 MHz | Horizontal | dB | 5.0 |
| | | Vertical | dB | 5.0 |
| | 200 MHz to 1000 MHz | Horizontal | dB | 5.2 |
| | | Vertical | dB | 6.2 |
| 10 m | 30 MHz to 200 MHz | Horizontal | dB | 5.5 |
| | | Vertical | dB | 5.4 |
| | 200 MHz to 1000 MHz | Horizontal | dB | 5.5 |
| | | Vertical | dB | 5.5 |
| 3 m | 1 GHz to 6 GHz | | dB | 5.1 |
| | 6 GHz to 18 GHz | | dB | 5.4 |
| 1 m | 10 GHz to 18 GHz | | dB | 5.4 |
| | 18 GHz to 26.5 GHz | | dB | 5.3 |
| | 26.5 GHz to 40 GHz | | dB | 4.8 |
| 0.5 m | 26.5 GHz to 40 GHz | | dB | 5.0 |

3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

ISED Lab Company Number: 2973C / CAB identifier: JP0002

| Test site | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Other rooms | Maximum measurement distance |
|----------------------------|----------------------------|--|------------------------|------------------------------|
| No.1 semi-anechoic chamber | 19.2 x 11.2 x 7.7 | 7.0 x 6.0 | No.1 Power source room | 10 m |
| No.2 semi-anechoic chamber | 7.5 x 5.8 x 5.2 | 4.0 x 4.0 | - | 3 m |
| No.3 semi-anechoic chamber | 12.0 x 8.5 x 5.9 | 6.8 x 5.75 | No.3 Preparation room | 3 m |
| No.3 shielded room | 4.0 x 6.0 x 2.7 | N/A | - | - |
| No.4 semi-anechoic chamber | 12.0 x 8.5 x 5.9 | 6.8 x 5.75 | No.4 Preparation room | 3 m |
| No.4 shielded room | 4.0 x 6.0 x 2.7 | N/A | - | - |
| No.5 semi-anechoic chamber | 6.0 x 6.0 x 3.9 | 6.0 x 6.0 | - | - |
| No.5 measurement room | 6.4 x 6.4 x 3.0 | 6.4 x 6.4 | - | - |
| No.6 shielded room | 4.0 x 4.5 x 2.7 | 4.0 x 4.5 | - | - |
| No.6 measurement room | 4.75 x 5.4 x 3.0 | 4.75 x 4.15 | - | - |
| No.7 shielded room | 4.7 x 7.5 x 2.7 | 4.7 x 7.5 | - | - |
| No.8 measurement room | 3.1 x 5.0 x 2.7 | 3.1 x 5.0 | - | - |
| No.9 measurement room | 8.8 x 4.6 x 2.8 | 2.4 x 2.4 | - | - |
| No.10 shielded room | 3.8 x 2.8 x 2.8 | 3.8 x 2.8 | - | - |
| No.11 measurement room | 4.0 x 3.4 x 2.5 | N/A | - | - |
| No.12 measurement room | 2.6 x 3.4 x 2.5 | N/A | - | - |
| Large Chamber | 16.9 x 22.1 x 10.17 | 16.9 x 22.1 | - | 10 m |
| Small Chamber | 5.3 x 6.69 x 3.59 | 5.3 x 6.69 | - | - |

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

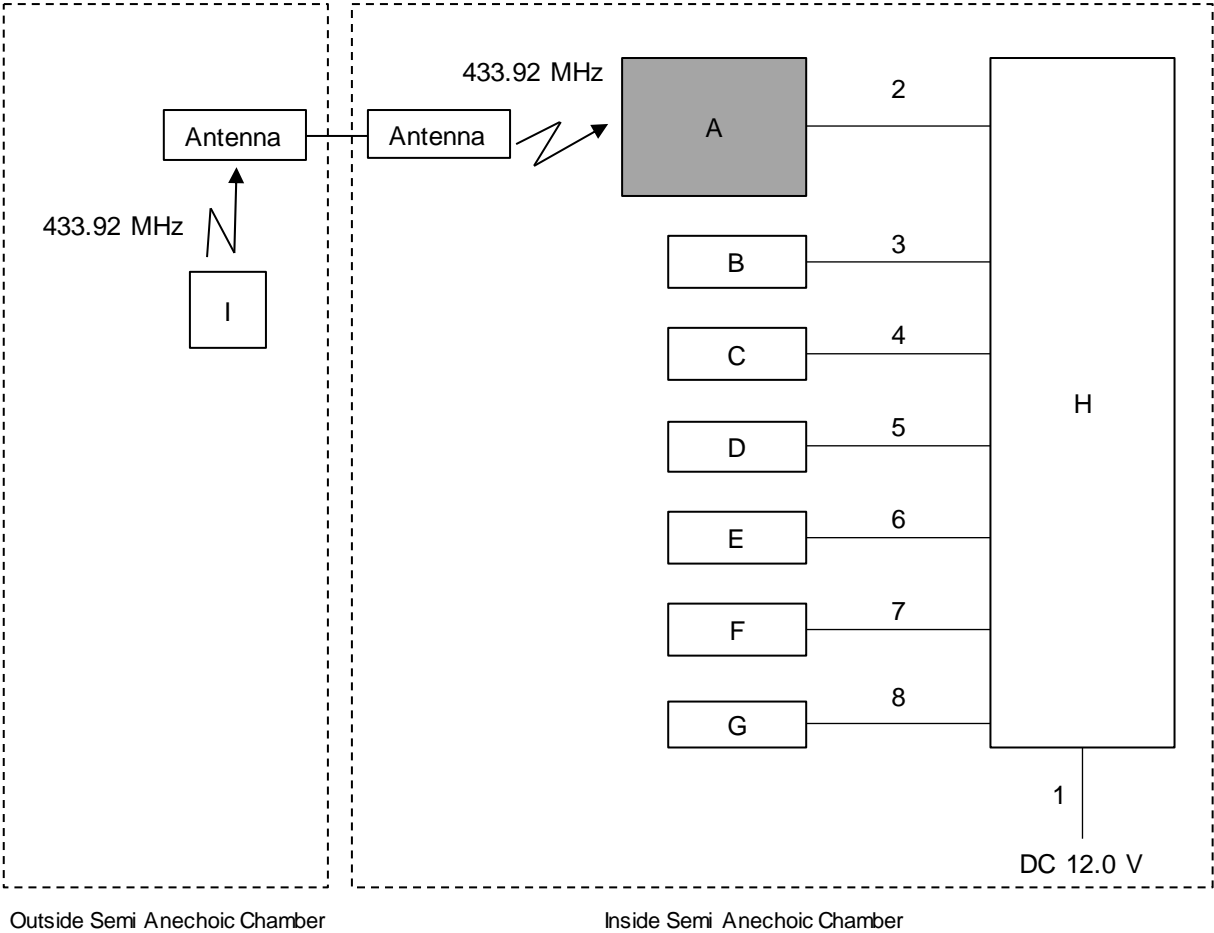
4.1 Operating Mode(s)

| | |
|-------------|-------------------|
| Mode | 1. Receiving mode |
| Software(s) | F109024 |

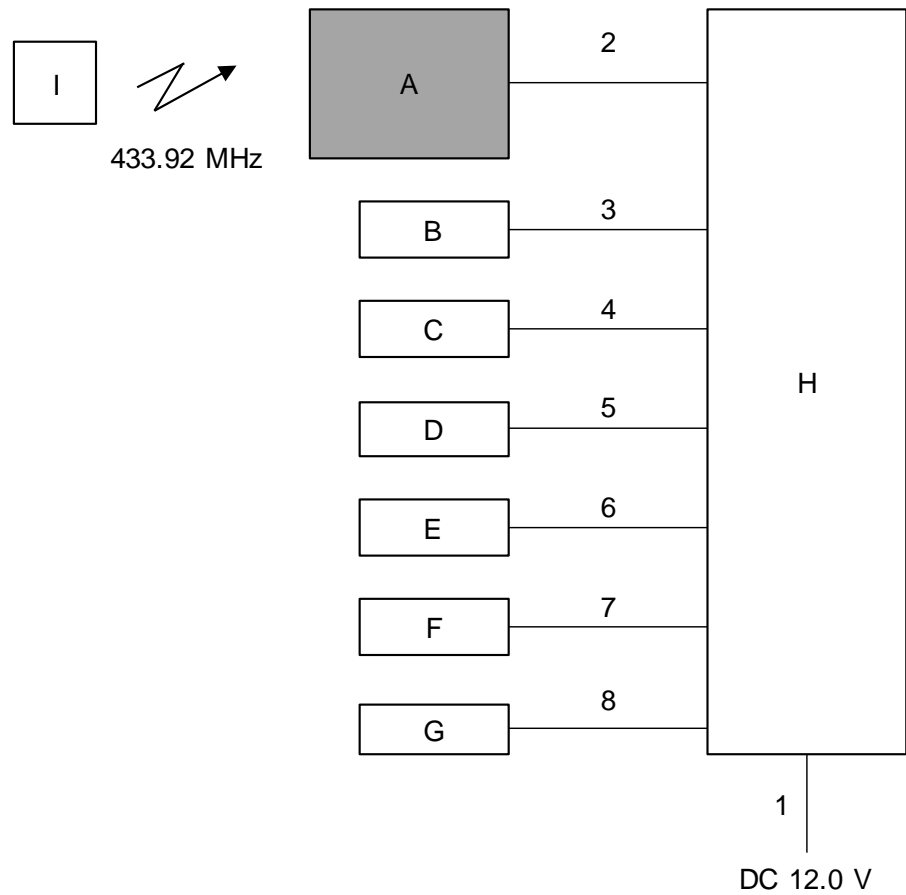
* The test signal level was confirmed to be sufficient to stabilize the local oscillator of the EUT.
* It was confirmed by using checker that the EUT receives the signal from the transmitter (pair of EUT).

4.2 Configuration and peripherals

[Below 1 GHz]



[Above 1 GHz]



- * Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.
- * The input voltage (DC 12 V) passes through Item No. H without affecting it and is supplied to the Body Control Module (Item No. A) without any drop in voltage.
- * Item No. A includes Receiver Antenna.

Description of EUT and Support Equipment

| No. | Item | Model number | Serial Number | Manufacturer | Remarks |
|-----|-----------------------|--------------|---------------|----------------------------|---------|
| A | Body Control Module | K84S0 | BCM No.1 | NIDEC MOBILITY CORPORATION | EUT |
| B | LF Antenna-1 (TYPE 1) | CGF-S002-D01 | 001 | NIDEC MOBILITY CORPORATION | - |
| C | LF Antenna-2 (TYPE 1) | CGF-S002-D01 | 002 | NIDEC MOBILITY CORPORATION | - |
| D | LF Antenna-3 (TYPE 3) | CGF-S002-D01 | 003 | NIDEC MOBILITY CORPORATION | - |
| E | LF Antenna-4 (TYPE 3) | CGF-S002-D03 | 004 | NIDEC MOBILITY CORPORATION | - |
| F | LF Antenna-5 (TYPE 1) | CGF-S002-D03 | 005 | NIDEC MOBILITY CORPORATION | - |
| G | PUSH START SWITCH | P55R0 | No.1 | NIDEC MOBILITY CORPORATION | - |
| H | SW Box | RV494 | No.1 | NIDEC MOBILITY CORPORATION | - |
| I | REMOCON | R55R3 | No.1 | NIDEC MOBILITY CORPORATION | - |

List of Cables Used

| No. | Name | Length (m) | Shield | | Remarks |
|-----|--------------|------------|------------|------------|---------|
| | | | Cable | Connector | |
| 1 | DC Cable | 1.00 | Unshielded | Unshielded | - |
| 2 | Signal Cable | 2.80 | Unshielded | Unshielded | - |
| 3 | Signal Cable | 2.50 | Unshielded | Unshielded | - |
| 4 | Signal Cable | 2.50 | Unshielded | Unshielded | - |
| 5 | Signal Cable | 2.50 | Unshielded | Unshielded | - |
| 6 | Signal Cable | 2.40 | Unshielded | Unshielded | - |
| 7 | Signal Cable | 2.40 | Unshielded | Unshielded | - |
| 8 | Signal Cable | 2.40 | Unshielded | Unshielded | - |

SECTION 5: Radiated Emission

5.1 Operating environment

Date : See data
Test place : See data
Temperature : See data
Humidity : See data
Test engineer : See data

5.2 Test configuration

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The EUT was set on the edge of the tabletop.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

Photographs of the set up are shown in APPENDIX 3.

5.3 Test conditions

Frequency range : 30 MHz to 200 MHz (Biconical antenna)
200 MHz to 1000 MHz (Logperiodic antenna)
1000 MHz to 2000 MHz (Horn antenna)
Test distance : 3 m
EUT position : Table top
EUT operation mode : See Clause 4.1

5.4 Test procedure

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver.

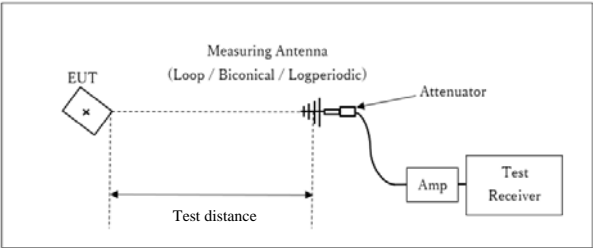
The radiated emission measurements were made with the following detector function of the Test Receiver. Test antenna was aimed at the emission source for receiving the maximum signal and always kept. (Above 1 GHz)

| Frequency | Below 1 GHz | Above 1 GHz *1) |
|-----------------|----------------|-----------------------------|
| Instrument used | Test Receiver | Test Receiver |
| IF Bandwidth | QP: BW 120 kHz | PK: BW 1 MHz, CAV: BW 1 MHz |

*1) The measurement data was adjusted to a 3 m distance using the following Distance Factor.
Distance Factor: See Figure 1.

Figure 1: Test Setup

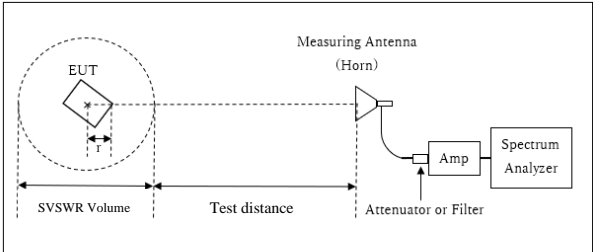
Below 1 GHz



* : Center of turn table

Test Distance: 3 m

1 GHz to 2 GHz



r : Radius of an outer periphery of EUT

* : Center of turn table

[1 GHz to 2 GHz]

Distance Factor: $20 \times \log (3.05 \text{ m}^*/3.0 \text{ m}) = 0.15 \text{ dB}$

* (Test Distance + SVSWR Volume / 2) - r = 3.05 m

Test Distance: 3 m

SVSWR Volume: 1.5 m

(SVSWR Volume has been calibrated based on CISPR 16-1-4.)

r: 0.70 m

- The noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

6.5 Test result

Summary of the test results: Pass

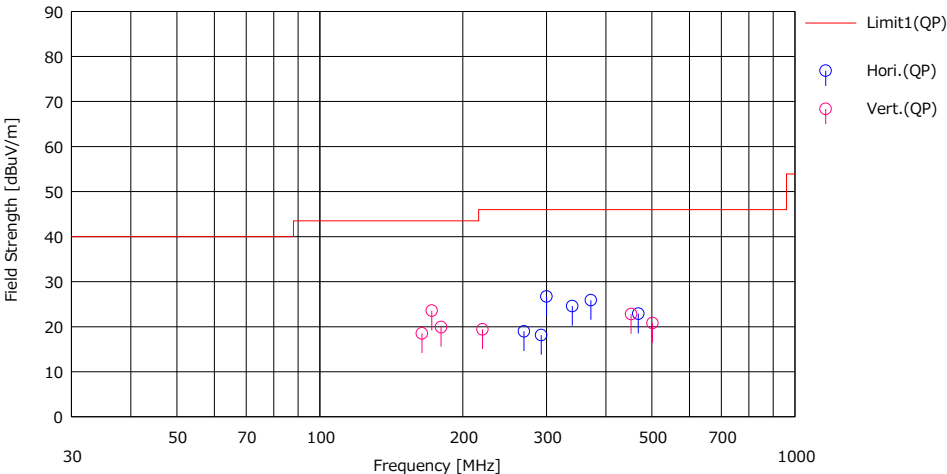
Test results are rounded off and limit are rounded down, so some differences might be observed.

APPENDIX 1: Test data

Radiated Emission

Test place Ise EMC Lab.
Semi Anechoic Chamber No.2
Date February 27, 2025
Temperature / Humidity 20 deg. C / 40 % RH
Engineer Tetsuro Yoshida
 (Below 1 GHz)
Mode Mode 1

Limit : FCC_Part 15 Subpart B(15.109)_Class B



| No. | Freq. [MHz] | Reading (QP) | Ant.Fac. [dB/m] | Loss [dB] | Gain [dB] | Result (QP) | Limit (QP) | Margn (QP) | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|-----------------|--------------------|--------------|--------------|----------------|---------------|---------------|----------------|----------------|----------------|--------------|---------|
| | | [dBuV] | | | | [dBuV/m] | [dBuV/m] | [dB] | | | | | |
| 1 | 268.960 | 25.10 | 12.91 | 8.71 | 27.76 | 18.96 | 46.00 | 27.04 | Hori. | 100 | 163 | LA21 | |
| 2 | 292.424 | 23.40 | 13.64 | 8.85 | 27.75 | 18.14 | 46.00 | 27.86 | Hori. | 100 | 0 | LA21 | |
| 3 | 299.991 | 31.90 | 13.66 | 8.90 | 27.75 | 26.71 | 46.00 | 19.29 | Hori. | 130 | 135 | LA21 | |
| 4 | 339.977 | 28.50 | 14.94 | 9.11 | 27.99 | 24.56 | 46.00 | 21.44 | Hori. | 100 | 0 | LA21 | |
| 5 | 371.993 | 29.70 | 15.14 | 9.30 | 28.25 | 25.89 | 46.00 | 20.11 | Hori. | 100 | 133 | LA21 | |
| 6 | 467.987 | 25.00 | 16.96 | 9.89 | 28.97 | 22.88 | 46.00 | 23.12 | Hori. | 100 | 166 | LA21 | |
| 7 | 164.014 | 23.20 | 15.46 | 8.03 | 28.18 | 18.51 | 43.50 | 24.99 | Vert. | 100 | 0 | BA | |
| 8 | 172.000 | 27.80 | 15.82 | 8.08 | 28.14 | 23.56 | 43.50 | 19.94 | Vert. | 100 | 290 | BA | |
| 9 | 180.002 | 23.80 | 16.07 | 8.13 | 28.10 | 19.90 | 43.50 | 23.60 | Vert. | 100 | 10 | BA | |
| 10 | 219.977 | 27.60 | 11.31 | 8.40 | 27.91 | 19.40 | 46.00 | 26.60 | Vert. | 100 | 0 | LA21 | |
| 11 | 451.979 | 25.20 | 16.67 | 9.82 | 28.89 | 22.80 | 46.00 | 23.20 | Vert. | 100 | 12 | LA21 | |
| 12 | 501.537 | 22.10 | 17.82 | 10.02 | 29.13 | 20.81 | 46.00 | 25.19 | Vert. | 100 | 0 | LA21 | |

CHART: WITH FACTOR
ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + ATT) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.

The data No.6 and No.11 are for Local oscillator frequency (LOF).
Although the measured frequency deviates from LOF, the frequency that is maximum in the vicinity of LOF is obtained.

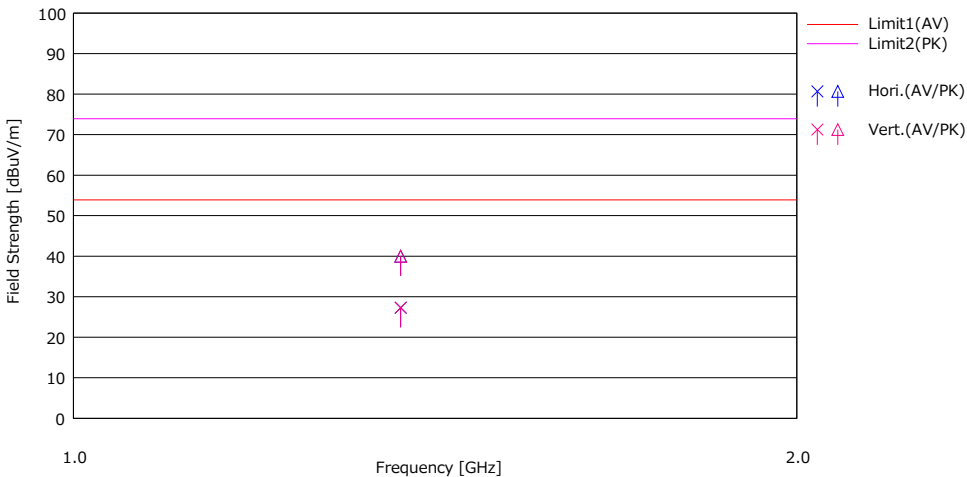
Radiated Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
February 27, 2025
20 deg. C / 40 % RH
Tetsuro Yoshida
(Above 1 GHz)
Mode 1

Limit : FCC_Part 15 Subpart B(15.109)_Class B



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|----------------|----------------|----------------|--------------|---------|
| | | (AV) [dBuV] | (PK) [dBuV] | | | | (AV) [dBuV/m] | (PK) [dBuV/m] | (AV) [dBuV/m] | (PK) [dBuV/m] | (AV) [dB] | (PK) [dB] | | | | | |
| 1 | 1368.329 | 33.40 | 46.10 | 26.01 | 1.93 | 34.04 | 27.30 | 40.00 | 53.90 | 73.90 | 26.60 | 33.90 | Hori. | 100 | 0 | HA6 | |
| 2 | 1368.329 | 33.40 | 46.10 | 26.01 | 1.93 | 34.04 | 27.30 | 40.00 | 53.90 | 73.90 | 26.60 | 33.90 | Vert. | 100 | 0 | HA6 | |

CHART: WITH FACTOR
ANT TYPE: - 30 MHz: LOOP, 30 MHz - 200 MHz: BICONICAL, 200 MHz - 1000 MHz: LOGPERIODIC, 1000 MHz -: HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS(CABLE + D-factor) - GAIN(AMP)
Except for the above table: adequate margin data below the limits.

APPENDIX 2: Test instruments

Test equipment

| Test Item | LIMS ID | Description | Manufacturer | Model | Serial | Last Calibration Date | Cal Int |
|-----------|---------|-----------------------------------|---------------------------------|------------------------------------|---------------------------|-----------------------|---------|
| RE | 141265 | Logperiodic Antenna (200-1000MHz) | Schwarzbeck Mess-Elektronik OHG | VUSLP9111B | 9111B-190 | 07/10/2024 | 12 |
| RE | 141317 | Coaxial Cable | UL-ISE | - | - | 09/11/2024 | 12 |
| RE | 141331 | Attenuator(6dB) | TME | UFA-01 | - | 02/19/2025 | 12 |
| RE | 141427 | Biconical Antenna | Schwarzbeck Mess-Elektronik OHG | VHA9103B+BBA9106 | 08031 | 07/30/2024 | 12 |
| RE | 141512 | Horn Antenna 1-18GHz | Schwarzbeck Mess-Elektronik OHG | BBHA9120D | 254 | 10/17/2024 | 12 |
| RE | 141542 | Digital Tester | Fluke Corporation | FLUKE 26-3 | 78030611 | 08/06/2024 | 12 |
| RE | 141594 | Pre Amplifier | Keysight Technologies Inc | 8447D | 2944A10150 | 02/19/2025 | 12 |
| RE | 141950 | EMI Test Receiver | Rohde & Schwarz | ESU26 | 100412 | 11/28/2024 | 12 |
| RE | 142004 | AC2_Semi Anechoic Chamber(NSA) | TDK | Semi Anechoic Chamber 3m | DA-06902 | 12/12/2023 | 24 |
| RE | 142006 | AC2_Semi Anechoic Chamber(SVSWR) | TDK | Semi Anechoic Chamber 3m | DA-06902 | 04/17/2023 | 24 |
| RE | 142228 | Measure, Tape, Steel | KOMELON | KMC-36 | - | - | - |
| RE | 178648 | EMI measurement program | TSJ (Techno Science Japan) | TEPTO-DV | - | - | - |
| RE | 244707 | Thermo-Hygrometer | HIOKI E. E. CORPORATION | LR5001 | 231202102 | 01/19/2025 | 12 |
| RE | 252663 | Microwave Cable | Huber+Suhner | SF126E/11PC35/11PC35/1000MM,5000MM | 616276/126E / 616275/126E | 09/10/2024 | 12 |
| RE | 253739 | Pre Amplifier | Keysight Technologies Inc | 8449B | 3008A01919 | 10/23/2024 | 12 |

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

RE: Radiated emission