

Certificate of Test

NCT CO., LTD.

211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Republic of Korea
(Tel: +82-31-323-6070 / Fax: +82-31-323-6071)

Report No.:
NW2310-F007-1

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**1. Client**

- Name : CMITECH Co.,Ltd.
- Address : 4th floor office# 417~419, 136, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2023-10-13

2. Use of Report : FCC Approval**3. Test Sample**

- Description / Model : FACE CAMERA / NovaFace-2N-P
- FCC ID : 2AJY5-NF-2N-PUI

4. Place of Test : ☒ Fixed test ☐ Field test

(Address:211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Republic of Korea)

5. Date of Test : 2023-10-13 ~ 2023-10-26**6. Test method used : FCC Part 15 Subpart C 15.225****7. Testing Environment :**

- Temperature: (25 ± 5) °C, Humidity: Less than 75 % R.H.
- * Unless specified otherwise in the individual methods, the tests were conducted on ambient conditions.

8. Test Results : Refer to the test results

The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This Test Report cannot be reproduced, except in full
This test report is not related to KOLAS recognition and RRA designation.

| | | |
|-------------|---|---|
| Affirmation | Tested by Jun-gi Sin (signature) | Technical Manager Il-shin, Kim (signature) |
|-------------|---|---|

Nov 22, 2023

NCT CO., LTD.



Contact us at report@nct.re.kr to confirm the authenticity of this report

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1. General Information's

1.1 Test Performed

Laboratory : NCT Co., Ltd.
Address : 211-71, Geumgok-ro, Hwaseong-si, Gyeonggi-do, 18511, Korea
Telephone : +82-31-323-6070
Facsimile : +82-31-323-6071
FCC Designation No. : KR0166
FCC Registration Number : 409631

2. Information's about Test Item

2.1 Applicant Information

Company name : CMITECH Co.,Ltd.
Address : 4th floor office# 417~419, 136, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do,
Republic of Korea
Telephone : +82-70-8633-8459
Facsimile : +82-31-624-4490

2.2 Equipment Under Test (EUT) description

Test item particulars : FACE CAMERA
Model and/or type reference : NovaFace-2N-P
Additional model name : NovaFace-2N, NovaFace-2N-I, NovaFace-2N-PI, NovaFace-2N-U,
NovaFace-2N-PU, NovaFace-2N-UI, NovaFace-2N-PUI
Model different description : See section 2.3
Serial number : Prototype
Antenna type : PCB Loop Antenna
Date (s) of performance of tests : 2023-10-18 ~ 2023-10-26
Date of receipt of test item : 2023-10-13
EUT condition : Pre-production, not damaged
Number of channel : 1
EUT Power Source : DC 15.0 V(Adaptor) / DC 48.0 V(PoE)
Type of Modulation : ASK
Firmware version : 1.0
Hardware version : 1.0
Test software name(version) : -

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2.3 Model different description

| Base Model | Partial Model | Difference |
|---------------|-----------------|--|
| NovaFace-2N-P | NovaFace-2N | 1. The basic model and the partial model are electrically the same circuit. 2. The software is different. (Customer company logo is displayed during booting) |
| | NovaFace-2N-I | |
| | NovaFace-2N-PI | |
| | NovaFace-2N-U | |
| | NovaFace-2N-PU | |
| | NovaFace-2N-UI | |
| | NovaFace-2N-PUI | |

2.4 Tested Frequency

| | Low frequency | Middle frequency | High frequency |
|-----------------|---------------|------------------|----------------|
| Frequency (MHz) | - | 13.56 | - |

3. Test Report

3.1 Test Summary

| Applied | Test Items | Clause | Test Condition | Result |
|-------------------------------------|--|---------------------|---------------------------------|---------------------|
| <input checked="" type="checkbox"/> | Antenna Requirement | 15.203 | - | C |
| <input checked="" type="checkbox"/> | 20 dB Bandwidth | 2.1049 | Radiated | C |
| <input checked="" type="checkbox"/> | In-Band Emissions (13.553 – 13.567 MHz) | 15.225(a) | | C |
| <input checked="" type="checkbox"/> | In-Band Emissions (13.410 – 13.553 MHz, 13.567 – 13.710 MHz) | 15.225(b) | | C |
| <input checked="" type="checkbox"/> | In-Band Emissions (13.110 – 13.410 MHz, 13.710 – 14.010 MHz) | 15.225(c) | | C |
| <input checked="" type="checkbox"/> | Out-of-Band Emissions | 15.225(d) 15.209 | | C |
| <input checked="" type="checkbox"/> | Frequency Stability | 15.225(e) | Temp & Humid Test Chamber | C |
| <input type="checkbox"/> | Conducted Emissions | 15.207 | AC Line Conducted | NA ^{note3} |

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: This test item was performed in each axis and the worst case data was reported.

Note 3: This product is only using DC power.

The sample was tested according to the following specification: ANSI C63.10:2020

Compliance was determined by specification limits of the applicable standard according to customer requirements.

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3.2 Test Report Version

| Test Report No. | Date | Description |
|-----------------|------------|---|
| NW2310-F007 | 2023-10-30 | Initial issue |
| NW2310-F007-1 | 2023-11-22 | Modify FCC ID and Model different description |
| | | |

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3.3 Transmitter Requirements

3.3.1 Antenna Requirement

According to §15.203 An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

According to §15.247(b)(4) the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.1.1 Result

Complies

(The transmitter has a PCB Pattern Antenna.)

3.3.2 20 dB Bandwidth

3.3.2.1 Test Setup

Refer to the APPENDIX I.

3.3.2.2 Limit

N/A

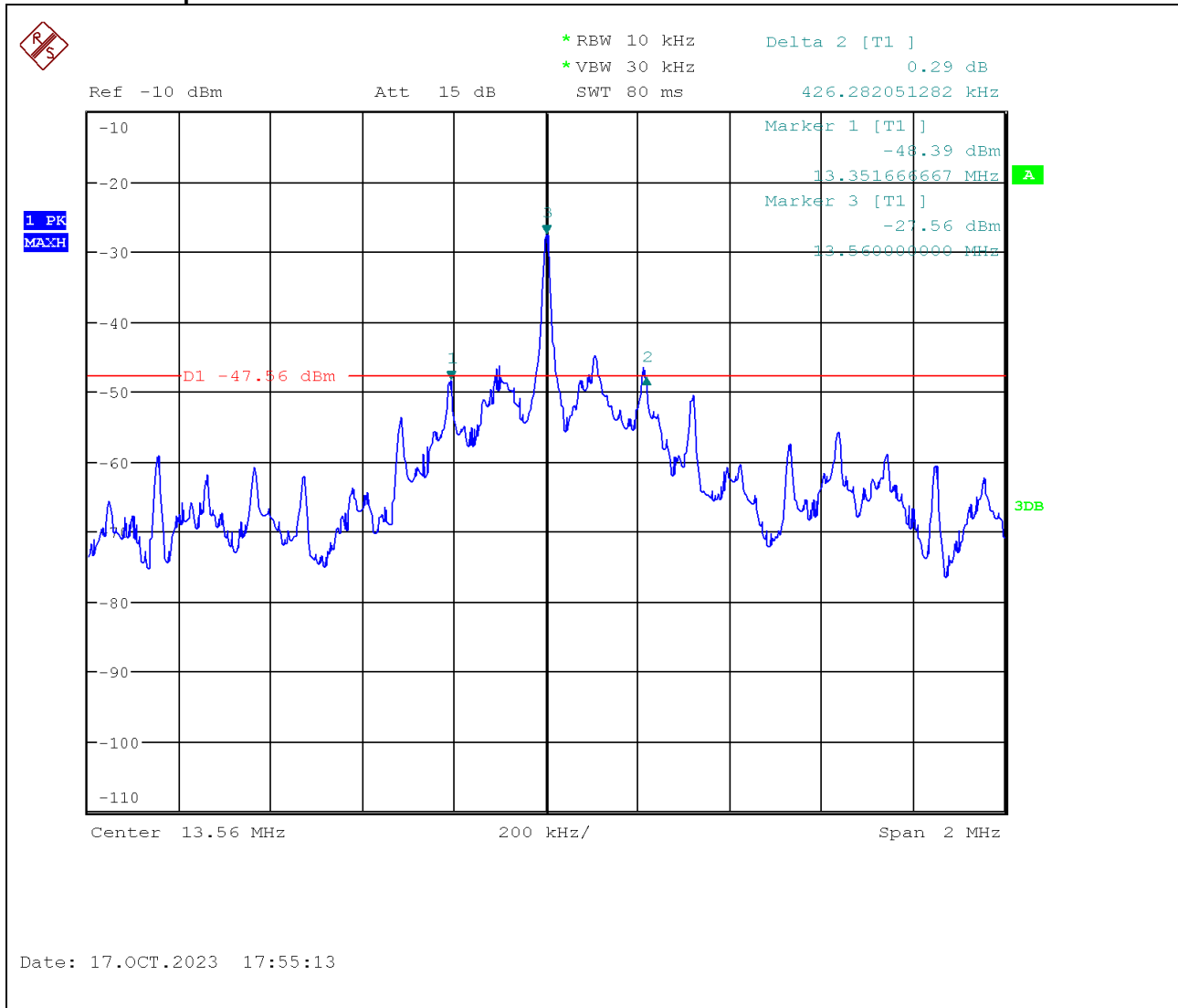
3.3.2.3 Test Procedure

1. The 20 dB Bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.
2. Spectrum analyzer setting use following test procedure
RBW = 1 % ~ 5 % OBW
VBW $\geq 3 \times$ RBW
Span = Span = 2 ~ 5 times the OBW
Sweep = Auto
Detector = Peak
Trace = Max hold
3. The trace was allowed to stabilize
4. Determine the reference value = Set the spectrum analyzer marker to the highest level of the displayed trace
5. Using the marker-delta function of the instrument, determine the “-xx dB down amplitude” using [(reference value) - xx].
6. Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

3.3.2.4 Test Result

- Measurement Data: **Complies**

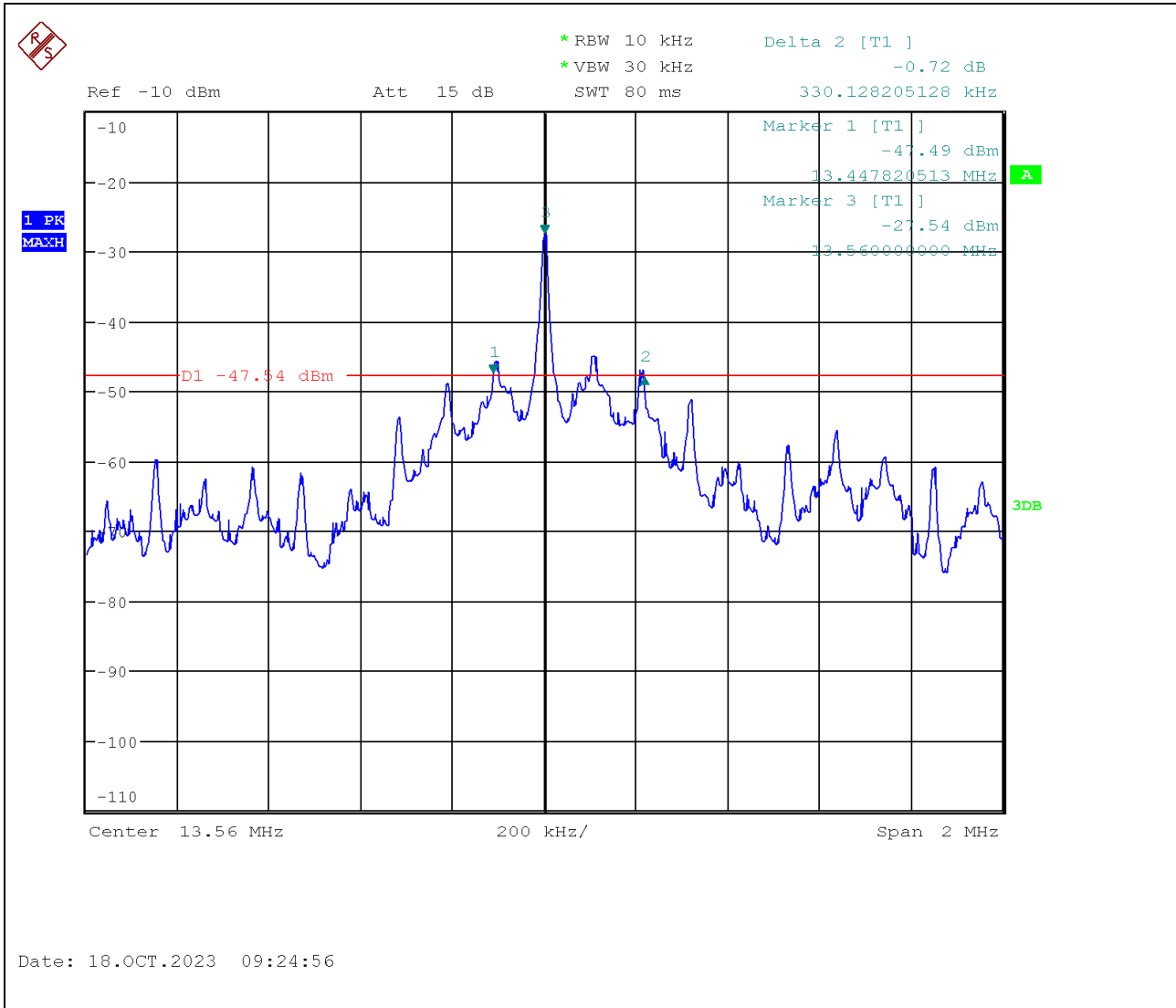
● Adaptor



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● PoE



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3.3.3 In-Band Emissions

3.3.3.1 Test Setup

Refer to the APPENDIX I.

3.3.3.2 Limit

| Frequency Band (MHz) | Limit at 30 m measurement distance | |
|--------------------------------|------------------------------------|-----------------------|
| | ($\mu\text{V/m}$) | (dB $\mu\text{V/m}$) |
| 13.553-13.567 | 15,848 | 84.00 |
| 13.410-13.553 13.567-13.710 | 334 | 50.47 |
| 13.110-13.410 13.710-14.010 | 106 | 40.51 |

3.3.3.3 Test Procedure

The radiated emission was tested according to the section 6.4 of the ANSI C63.10-2013.

The EUT was placed on a 0.8 m high non-conductive table and it was placed at 3m distance from the antenna.

Measurements were performed for each of the three antenna orientations. (ie. parallel, perpendicular, and ground-parallel)

Also, measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

RBW = As specified in below table

VBW \geq 3 x RBW

Sweep = Auto

Detector = Peak

Trace mode = Max Hold until the trace stabilizes.

| Frequency | RBW |
|-------------|-------------|
| 9-150 kHz | 200-300 Hz |
| 0.15-30 MHz | 9-10 kHz |
| 30-1000 MHz | 100-120 kHz |
| >1 000 MHz | 1 MHz |

3.3.3.4 Test Result

- Test Frequency: **13.56 MHz**
- Measurement Distance: **3 m**

● Adaptor

| Test Frequency Band (MHz) | Freq. (MHz) | Ant | Reading Value (dB μ V) | T.F (dB/m) | Field Strength @3m (dB μ V/m) | Field Strength @30m (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|---------------------------|-------------|-------|----------------------------|------------|-----------------------------------|------------------------------------|----------------------|-------------|
| 13.110-13.410 | 13.347 | 9.20 | P | 20.27 | 29.47 | -10.53 | 40.51 | 51.04 |
| 13.410-13.553 | 13.553 | 23.70 | P | 20.27 | 43.97 | 3.97 | 50.47 | 46.50 |
| 13.553-13.567 | 13.560 | 39.90 | P | 20.27 | 60.17 | 20.17 | 84.00 | 63.83 |
| 13.567-13.710 | 13.567 | 25.80 | P | 20.27 | 46.07 | 6.07 | 50.47 | 44.40 |
| 13.710-14.010 | 13.770 | 10.30 | P | 20.27 | 30.57 | -9.43 | 40.51 | 49.94 |

● PoE

| Test Frequency Band (MHz) | Freq. (MHz) | Ant | Reading Value (dB μ V) | T.F (dB/m) | Field Strength @3m (dB μ V/m) | Field Strength @30m (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|---------------------------|-------------|-------|----------------------------|------------|-----------------------------------|------------------------------------|----------------------|-------------|
| 13.110-13.410 | 13.348 | 9.10 | P | 20.27 | 29.37 | -10.63 | 40.51 | 51.14 |
| 13.410-13.553 | 13.553 | 23.70 | P | 20.27 | 43.97 | 3.97 | 50.47 | 46.50 |
| 13.553-13.567 | 13.560 | 40.00 | P | 20.27 | 60.27 | 20.27 | 84.00 | 63.73 |
| 13.567-13.710 | 13.567 | 25.80 | P | 20.27 | 46.07 | 6.07 | 50.47 | 44.40 |
| 13.710-14.010 | 13.773 | 11.00 | P | 20.27 | 31.27 | -8.73 | 40.51 | 49.24 |

Note 1: Loop antenna orientation

"P": Parallel, "V": Perpendicular, "G": Ground-parallel

Note 2: This test item was performed at 3 m and the data were extrapolated to the specified measurement distance of 30 m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)2.

▪ Extrapolation Factor = $20 \log_{10}(30/3)^2 = 40$ dB

Note 3: All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

Note 4: Sample Calculation.

Margin = Limit – Field Strength @ 30 m / Field Strength @ 30 m = Field Strength @ 3 m – 40 dB

Field Strength @ 3 m = Reading + T.F / T.F = AF + CL

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss

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3.3.4 Out-of-Band Emissions

3.3.4.1 Test Setup

Refer to the APPENDIX I.

3.3.4.2 Limit

Part 15.209, 225(d)

FCC Part 15.209(a):

| Frequency (MHz) | Limit (uV/m) | Measurement Distance (meter) |
|-----------------|---------------|------------------------------|
| 0.009 ~ 0.490 | 2400/F (kHz) | 300 |
| 0.490 ~ 1705 | 24000/F (kHz) | 30 |
| 1705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 ** | 3 |
| 88 ~ 216 | 150 ** | 3 |
| 216 ~ 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

FCC Part 15.209(b): In the emission table above, the tighter limit applies at the band edges.

3.3.4.3 Test Procedure

The radiated emission was tested according to the section 6.4 of the ANSI C63.10-2013.

The EUT was tested from 9 kHz up to the 1 GHz excluding the band 13.110-14.010 MHz.

The EUT was placed on a 0.8 m high non-conductive table and it was placed at 3m distance from the antenna.

For measurements below 30MHz were performed for each of the three antenna orientations.(ie. parallel, perpendicular, and ground-parallel)

For measurements above 30MHz were performed for each of the both horizontal and vertical polarizations. Also, measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

RBW = As specified in below table

VBW \geq 3 x RBW

Sweep = Auto

Detector = Peak

Trace mode = Max Hold until the trace stabilizes.

| Frequency | RBW |
|-------------|-------------|
| 9-150 kHz | 200-300 Hz |
| 0.15-30 MHz | 9-10 kHz |
| 30-1000 MHz | 100-120 kHz |
| >1 000 MHz | 1 MHz |

3.3.4.4 Test Result

- Test Frequency: **13.56 MHz**
- Measurement Distance: **3 m**

● Adaptor

| Frequency (MHz) | Ant | Reading Value (dB μ V) | T.F (dB/m) | Distance Factor (dB μ V/m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----|----------------------------|------------|--------------------------------|-------------------------------|----------------------|-------------|
| 31.55 | V | 12.41 | 18.80 | 0.00 | 31.21 | 40.00 | 8.79 |
| 34.95 | V | 14.41 | 19.10 | 0.00 | 33.51 | 40.00 | 6.49 |
| 375.03 | H | 16.60 | 22.90 | 0.00 | 39.50 | 46.02 | 6.52 |
| 462.04 | H | 13.75 | 25.00 | 0.00 | 38.75 | 46.02 | 7.27 |
| 500.06 | H | 11.81 | 25.70 | 0.00 | 37.51 | 46.02 | 8.51 |
| 709.10 | V | 3.12 | 30.00 | 0.00 | 33.12 | 46.02 | 12.90 |
| 845.38 | V | 2.76 | 31.80 | 0.00 | 34.56 | 46.02 | 11.46 |

● PoE

| Frequency (MHz) | Ant | Reading Value (dB μ V) | T.F (dB/m) | Distance Factor (dB μ V/m) | Field Strength (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|-----|----------------------------|------------|--------------------------------|-------------------------------|----------------------|-------------|
| 31.16 | V | 15.22 | 18.80 | 0.00 | 34.02 | 40.00 | 5.98 |
| 52.41 | V | 1.92 | 20.00 | 0.00 | 21.92 | 40.00 | 18.08 |
| 165.22 | V | 2.96 | 20.00 | 0.00 | 22.96 | 43.52 | 20.56 |
| 375.03 | H | 17.80 | 22.90 | 0.00 | 40.70 | 46.02 | 5.32 |
| 709.19 | H | 3.04 | 30.00 | 0.00 | 33.04 | 46.02 | 12.98 |
| 729.95 | H | 6.79 | 30.30 | 0.00 | 37.09 | 46.02 | 8.93 |
| 845.09 | H | 2.78 | 31.80 | 0.00 | 34.58 | 46.02 | 11.44 |

Note 1: The radiated emissions were investigated 9 kHz to 1 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

Note 2: Loop antenna orientation (below 30 MHz)

"P": Parallel, "V": Perpendicular, "G": Ground-parallel

Bilog antenna polarization (above 30 MHz)

"H": Horizontal, "V": Vertical

Note 3: All data were recorded using a spectrum analyzer employing a peak detector.

If PK results were meet Quasi-peak limit, Quasi-peak measurements were omitted.

Note 4: Sample Calculation.

Margin = Limit – Field Strength

Field Strength = Reading + T.F – Distance factor

Distance factor = $20\log(\text{Measurement distance} / \text{The measured distance})^2 = 20\log(30/3)^2 = 40 \text{ dB}$

T.F = AF + CL -AG

Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

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3.3.5 Frequency Stability

3.3.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within ± 0.01 % of the operating frequency.

3.3.5.2 Test Procedure

Part 15.225 requires that devices operating in the 13.553 – 13.567 MHz shall maintain the carrier frequency within 0.01 % of the operating frequency over the temperature variation of -20 degrees to + 50 degrees C at normal supply voltage.

3.3.5.3 Test Result

● Adaptor

| Voltage | | Temp | Frequency | Deviation | |
|---------|-------|------|------------|-----------|---------|
| (%) | (Vdc) | (°C) | (Hz) | (Hz) | (%) |
| 100 | 15.00 | -20 | 13 560 253 | 253 | 0.001 9 |
| 100 | | -10 | 13 560 281 | 281 | 0.002 1 |
| 100 | | 0 | 13 560 295 | 295 | 0.002 2 |
| 100 | | 10 | 13 560 279 | 279 | 0.002 1 |
| 100 | | +20 | 13 560 262 | 262 | 0.001 9 |
| 100 | | 30 | 13 560 238 | 238 | 0.001 8 |
| 100 | | 40 | 13 560 219 | 219 | 0.001 6 |
| 100 | | 50 | 13 560 206 | 206 | 0.001 5 |
| 115 | 17.25 | 20 | 13 560 264 | 264 | 0.001 9 |
| 85 | 12.75 | 20 | 13 560 264 | 264 | 0.001 9 |

● PoE

| Voltage | | Temp | Frequency | Deviation | |
|---------|-------|------|------------|-----------|---------|
| (%) | (Vdc) | (℃) | (Hz) | (Hz) | (%) |
| 100 | 48.00 | -20 | 13 560 253 | 253 | 0.001 9 |
| 100 | | -10 | 13 560 282 | 282 | 0.002 1 |
| 100 | | 0 | 13 560 295 | 295 | 0.002 2 |
| 100 | | 10 | 13 560 278 | 278 | 0.002 1 |
| 100 | | +20 | 13 560 263 | 263 | 0.001 9 |
| 100 | | 30 | 13 560 235 | 235 | 0.001 7 |
| 100 | | 40 | 13 560 218 | 218 | 0.001 6 |
| 100 | | 50 | 13 560 204 | 204 | 0.001 5 |
| 115 | 55.20 | 20 | 13 560 263 | 263 | 0.001 9 |
| 85 | 40.80 | 20 | 13 560 263 | 263 | 0.001 9 |

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3.3.6 Conducted Emission

3.3.6.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

3.3.6.2 Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

| Frequency Range (MHz) | Conducted Limit (dBuV) | |
|-----------------------|------------------------|------------|
| | Quasi-Peak | Average |
| 0.15 ~ 0.5 | 66 to 56 * | 56 to 46 * |
| 0.5 ~ 5 | 56 | 46 |
| 5 ~ 30 | 60 | 50 |

* Decreases with the logarithm of the frequency

3.3.6.3 Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

1. The test procedure is performed in a 6.5 m \times 3.5 m \times 3.5 m (L \times W \times H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) \times 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

3.3.6.4 Test Result

Not Applicable

(This product is only using DC power. So, AC conducted emission test has not been performed.)

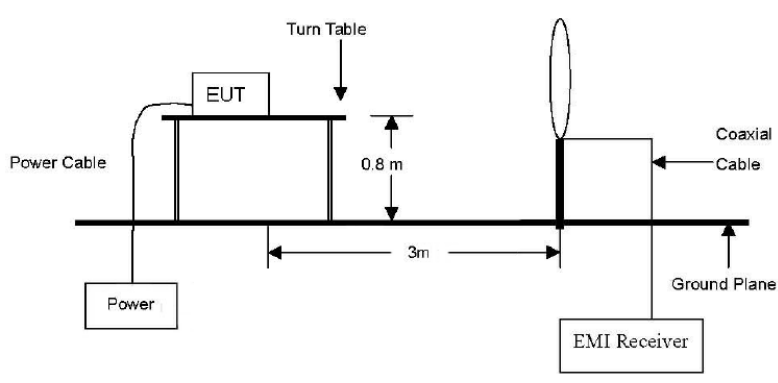
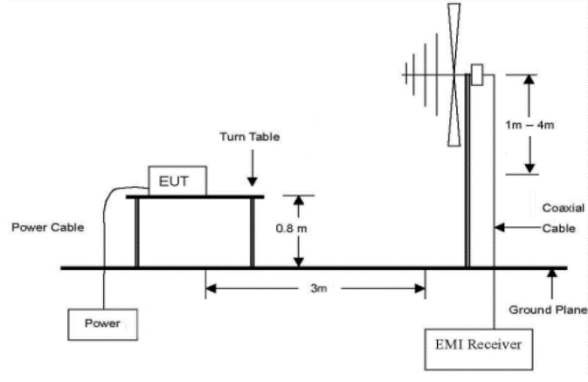
APPENDIX I

TEST SETUP

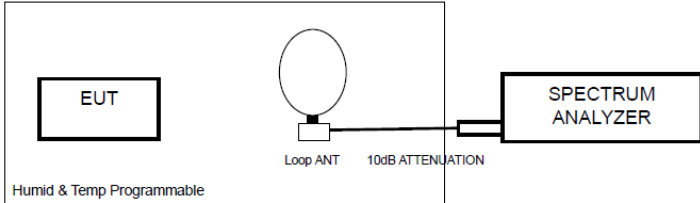
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- Radiated Measurement

| | |
|----------------------------|---|
| <p>below 30 MHz</p> |  |
| <p>below 1 GHz</p> |  |

- Temp & Humid Chamber Measurement

| | |
|-----------------------------------|--|
| <p>Frequency Stability</p> |  |
|-----------------------------------|--|

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APPENDIX II

TEST EQUIPMENT USED FOR TESTS

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| | Description | Manufacturer | Serial No. | Model No. | Cal. Date | Next Cal. Date |
|---|---|---------------|------------|------------|------------|----------------|
| 1 | SPECTRUM ANALYZER | R&S | 100250 | FSU26 | 2023-08-30 | 2024-08-30 |
| 2 | Power supply | GWInstek | EH120798 | PST-3202 | 2023-03-07 | 2024-03-07 |
| 3 | DC power supply | QK002651 | PWR800L | PWR800L | 2023-03-07 | 2024-03-07 |
| 4 | Humi./Baro/Temp. data recorder | Lutron | 89503 | MHB-382SD | 2023-07-21 | 2024-07-21 |
| 5 | Bench-top Type Temperature & Humidity Chamber | ESPEC | 92006813 | SH-241 | 2023-08-31 | 2024-08-31 |
| 6 | Vector SG | R&S | 255563 | SMBV100A | 2023-03-09 | 2024-03-09 |
| 7 | EMI Test Receiver | ROHDE&SCHWARZ | 102138 | ESR | 2023-05-22 | 2024-05-22 |
| 8 | LOOP-ANTENNA | Schwarzbeck | 00124 | FMZB1519 B | 2023-05-25 | 2025-05-25 |
| 9 | TRILOG Broadband Antenna | 01027 | VULB 9168 | VULB 9168 | 2023-05-23 | 2025-05-23 |

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