TEST REPORT



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970

Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (1) / (19) Pages

| 1. Applicant |
|--------------|
|--------------|

Name: UNION COMMUNITY

• Address: 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu

Date of Receipt: 2024-07-25

2. Manufacturer

Name: UNION COMMUNITY

Address: 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu

3. Use of Report: For FCC Certification

4. Test Sample / Model: UBio-N Face Mini / UBio-N Face Mini

5. Date of Test: 2024-09-05 to 2024-09-19

6. Test Standard(method) used: FCC 47 CFR part 15 subpart C 15.209

7. Testing Environment : refer to 6 page

8. Test Results: Compliance

9. Location of Test: ☐ Permanent Testing Lab ☐ On Site Testing

(Address: 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This report cannot be reproduced or copied without the written consent of CTK.

Approval

Bong-seok Kim: (Signature)

Technical Manager

Young-taek Lee: (Signature)

2024-09-24

CTK Co., Ltd.

[QF-QP15-07] Ver.02 Project Number: CTK-R-2024-04064

R108



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (2) / (19) Pages

REPORT REVISION HISTORY

| Date Revision | | Page No | |
|---------------|-------------------------|---------|--|
| 2024-09-24 | Issued (CTK-2024-02637) | All | |
| | | | |
| | | | |

This report shall not be reproduced except in full, without the written approval of CTK Co., Ltd. This document may be altered or revised by CTK Co., Ltd. Personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by CTK Co., Ltd. Will constitute fraud and shall nullify the document.

Project Number: CTK-R-2024-04064 [QF-QP15-07] Ver.02



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (3) / (19) Pages

CONTENTS

| 1. General Product Description | |
|---|---|
| 1.1 Applicant Information | 4 |
| 1.2 Product Information | 4 |
| 1.3 Antenna Information | 4 |
| 2. Accreditations | 5 |
| 2.1 Laboratory Accreditations and Listings | 5 |
| 2.2 Calibration Details of Equipment Used for Measurement | 5 |
| 3. Test Specifications | 6 |
| 3.1 Standards | |
| 3.2 Testing Environment | 6 |
| 3.3 Mode of operation during the test | 7 |
| 3.4 Peripheral Devices | 7 |
| 3.5 Maximum Measurement Uncertainty | 7 |
| 4. Technical Characteristic Test | 8 |
| 4.1 Emission Bandwidth | 8 |
| 4.2 Radiated emissions | 0 |
| 4.3 AC Conducted Emissions | 6 |
| APPENDIX A – Test Equipment Used For Tests | 9 |



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (4) / (19) Pages

1. General Product Description

1.1 Applicant Information

| Company | UNION COMMUNITY | |
|----------------|---|--|
| Contact Point | 12F, Munjeong Daemyeong Valeon bldg, 127 Beobwon-ro Songpa-gu | |
| Contact Person | Name : CHO, MIN-GU E-mail : mgcho@unioncomm.co.kr | |
| | Tel: +82-02-6488-3261 | |

1.2 Product Information

| FCC ID | XX2-UBIONFACEMINI |
|--------------------------------------|-------------------|
| Product Description | UBio-N Face Mini |
| Model name | UBio-N Face Mini |
| Variant Model name | - |
| FVIN | N/A |
| Operationg Frequency | 125 kHz |
| RF Output Power | 62.8 dBuV/m @ 3m |
| That may have multiple primary coils | No |
| Antenna Type | Integral |
| Power Source | DC 24 V, PoE |

1.3 Antenna Information

| \boxtimes | Integral antenna (antenna permanently attached) | | |
|-------------|---|---|--|
| | ☐ Temporary RF connector provided | | |
| | \boxtimes | No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path. | |
| | External antenna (dedicated antennas) | | |



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (5) / (19) Pages

2. Accreditations

2.1 Laboratory Accreditations and Listings

| Country | Agency | Registration Number |
|------------|--------|-----------------------------|
| USA | FCC | 805871 |
| CANADA | ISED | CN: 8737A CAB ID: KR0025 |
| KOREA NRRA | | KR0025 |

2.2 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (6) / (19) Pages

3. Test Specifications

3.1 Standards

| FCC Part Section(s) | Requirement(s) | Status (Note 1) | Report Clause | |
|--|-----------------------------------|--------------------|------------------|--|
| 15.203 | Antenna Requirement | С | 1.3 | |
| 15.215(c) | Emission Bandwidth | С | 4.1 | |
| 15.209 | Radiated Emissions | С | 4.2 | |
| 15.207 | AC Power line Conducted Emissions | С | 4.3 | |
| Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable | | | | |
| Note 2: The data in this test report are traceable to the national or international standards. | | | | |
| Note 3: The sample was tested according to the following specification: ANSI C63.10-2013. | | | | |

3.2 Testing Environment

| | Test Item | Test Date | Temperature (°C) | Relative Humidity (%) |
|------------------------|--------------------|------------|------------------|-----------------------------|
| Bandwidth | | 2024-09-05 | 25 | 57 |
| Transmitter | 1) 9 kHz to 30 MHz | 2024-09-09 | 22 | 55 |
| emission (Radiated) | 2) 30 MHz to 1 GHz | 2024-09-19 | 21 | 60 |
| AC Conducted Emission | | 2024-09-05 | 24 | 50 |



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (7) / (19) Pages

3.3 Mode of operation during the test

It is configured so that the maximum level is transmitted continuously.

Test Frequency

| Operating Frequencies | |
|-----------------------|--|
| 125 kHz | |

The Worst Case Measurement Configuration

| Tests Item | Transmitter Radiated Emissions, Emission Bandwidth | | |
|--|--|--|--|
| Condition | Radiated measurement | | |
| | ☑ EUT will be placed in fixed position. | | |
| User Position | ☐ EUT will be placed in mobile position and operating multiple positions. | | |
| | EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. | | |
| Operating Mode | DC 24 V mode(Power supply) | | |
| EUT faces identified relative to view from receiving antenna | Y X | | |

3.4 Peripheral Devices

| No | Device | Manufacturer | Model No. | Serial No. |
|----|-----------------|---------------------------------|-----------|------------|
| 1 | DC Power Supply | Topward Electric Instruments | 6303D | 711196 |

3.5 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter. Coverage factor k = 2, Confidence levels of 95 %

| Test Item | Uncertainty |
|--------------------|---------------------------------------|
| Radiated emissions | 3.82 dB(C.L. : Approx. 95%, $k = 2$) |



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970

Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (8) / (19) Pages

4. Technical Characteristic Test

4.1 Emission Bandwidth

Requirement

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

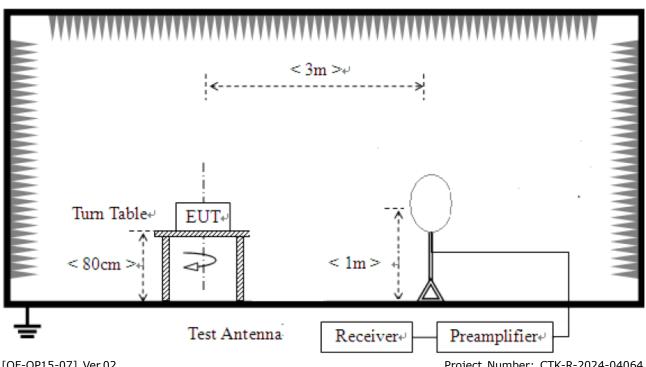
The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the "x dB bandwidth" is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

Test Procedures

For the emission bandwidth refer ANSI C63.10-2013, clause 6.9(Occupied bandwidth).

Test Setup



[QF-QP15-07] Ver.02

Project Number: CTK-R-2024-04064



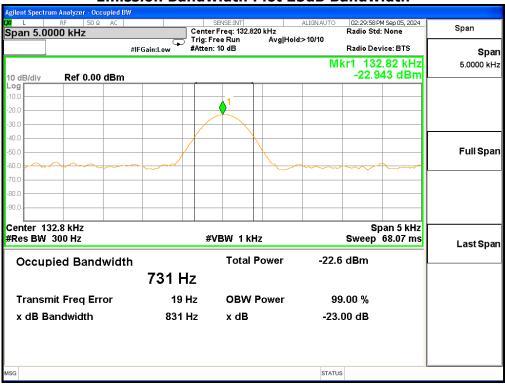
Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (9) / (19) Pages

Test results

| Emission Bandwidth | Result | Limit |
|--------------------|--------|-------|
| 23 dB Bandwidth | 831 Hz | N/A |
| 99 % Bandwidth | 731 Hz | N/A |





Remark:

1. The measured frequency is 132.8 kHz.(Operationg Frequency: 125.0 kHz)



CTK Co., Ltd.

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970

Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (10) / (19) Pages

4.2 Radiated emissions

FCC Requirement

FCC Part 15 § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| Frequency(MHz) | Frequency(MHz) Field Strength uV/m | | Measurement Distance (meters) |
|----------------|------------------------------------|-------------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 |
| 0.490-1.705 | 0.490-1.705 24000/F(kHz) | | 30 |
| 1.705-30 | 30 | 29.5 | 30 |
| 30-88 | 100** | 40 | 3 |
| 88-216 | 150** | 43.5 | 3 |
| 216-960 | 200** | 46 | 3 |
| Above 960 | 500 | 54 | 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 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

ISED Requirement

RSS-Gen includes the general field strength limits of unwanted emissions, where applicable, for transmitters and receivers operating in accordance with the provisions specified in this standard

Unless otherwise indicated, unwanted emissions of transmitters and receivers are permitted to fall within the restricted frequency bands listed in RSS-Gen and the TV bands 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-602 MHz; however, fundamental emissions are prohibited in these bands, except where equipment operation is permitted in the applicable RSS.

Transmitters whose wanted and unwanted emissions fall within the general field strength limits specified in RSS-Gen may operate licence-exempt in any of the frequency bands, other than the restricted frequency bands listed in RSS-Gen and the TV bands 54-72 MHz, 76-88 MHz, 174-216 MHz and 470-602 MHz, and shall be certified under RSS-210. Under no circumstances shall the level of any unwanted emissions exceed the level of the fundamental emissions.



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (11) / (19) Pages

Test Location

| □ 10 m SAC | (test distance | : 🗆 | 10 m, | \boxtimes | 3 | m |) |
|------------|----------------|-----|-------|-------------|---|---|---|
|------------|----------------|-----|-------|-------------|---|---|---|

Test Procedures

| | Test Method | | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|--|
| | Refer as ANSI C63.10-2013, clause 6.4(Radiated emissions from unlicensed wireless devices below 30 MHz). | | | | | | | | |
| | Radiated emission tests shall be performed in the frequency range of 9 kHz to 30 MHz, using a calibrated loop antenna. | | | | | | | | |
| | When perpendicular to the ground plane, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum | | | | | | | | |
| | response at each azimuth about the EUT. | | | | | | | | |
| | The results shall be by using the square of an inverse linear distance extrapolation factor(40 dB/decade). | | | | | | | | |
| \boxtimes | Refer as ANSI C63.10-2013, clause 6.5(Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz). | | | | | | | | |
| | In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) is used. Test Antenna | | | | | | | | |
| | Emissions more than 20 dB below the limit do not need to be reported. | | | | | | | | |

| | Measuring instrument Settings | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|
| Frequency Range | 9 kHz – 1 000 MHz | | | | | | | |
| RBW | 200 Hz (9 kHz – 150 kHz) 9 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1 000 MHz) | | | | | | | |
| VBW | ≥ RBW | | | | | | | |
| Sweep time | auto couple | | | | | | | |
| Detector function | CISPR quasi-peak(below 1 000 MHz) | | | | | | | |

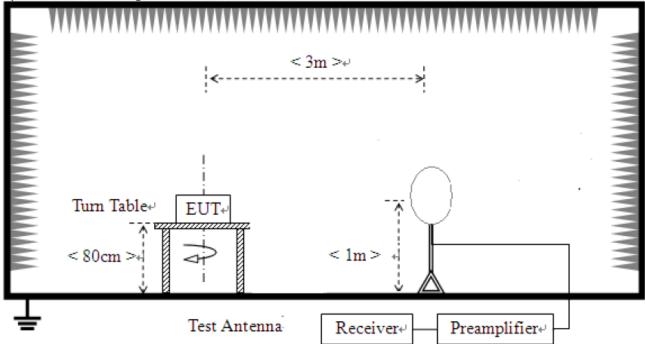


Fax: +82-31-624-9501

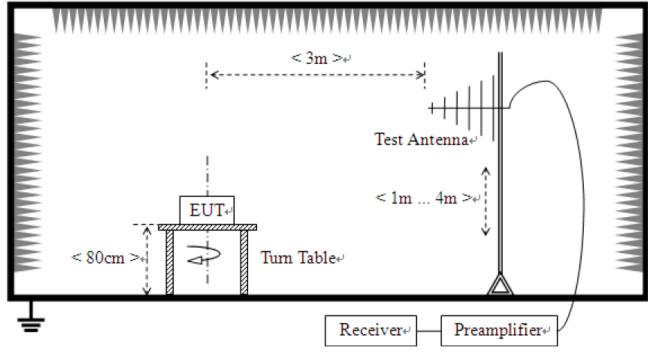
Report No.: CTK-2024-02637 Page (12) / (19) Pages

Test Setup

For field strength of emissions from 9 kHz to 30 MHz



For field strength of emissions from 30 MHz to 1 GHz





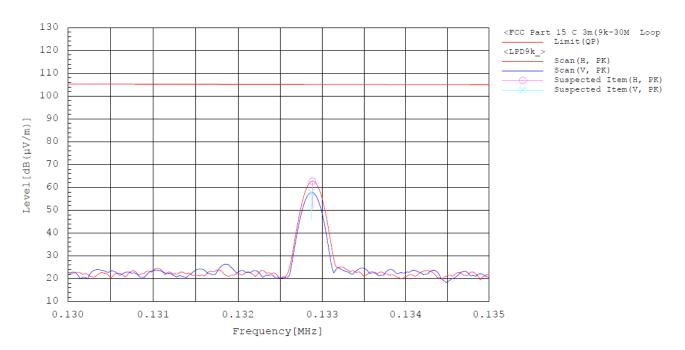
Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (13) / (19) Pages

Test results

1) Radiated emissions of fundamental frequency

The requirements are:



| Frequency [MHz] | Reading [dBuV] | c.f [dB/m] | Result [dBuV/m] | Limit [dBuV/m] | Margin[dB] | Remark |
|--------------------|-------------------|---------------|--------------------|-------------------|------------|--------|
| 0.132 | 38.0 | 24.8 | 62.8 | 105.1 | 47.3 | |

Remark:

- 1. Result = Reading + c.f(correction factor)
- 2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 3. The test result in peak detector is less than quasi-peak limit.



CTK Co., Ltd.

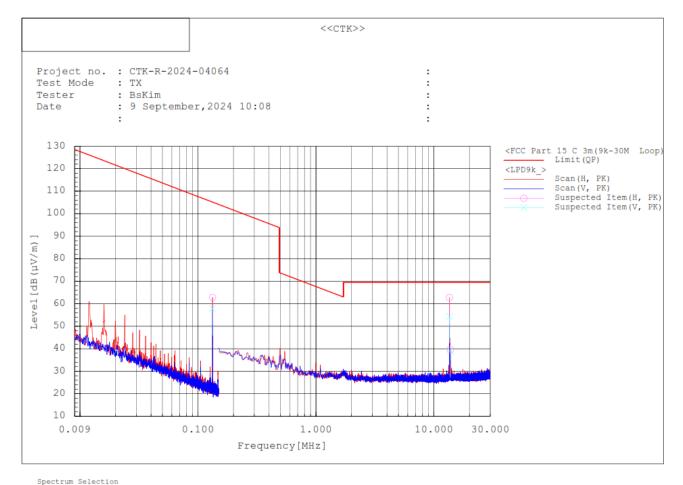
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970

Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (14) / (19) Pages

2) Radiated emissions in the frequency range of 9 kHz to 30 MHz

The requirements are:



| opec | crum bereet | | | | | | | | | |
|------|-------------|-----|---------------|-----------|--------------|-------------|-----------------|---------|-------|--------|
| No. | Frequency | Pol | Reading PK | c.f | Result PK | Limit QP | Margin QP-PK | Height | Angle | Remark |
| | [MHz] | | [dB(µV)] | [dB(1/m)] | [dB(µV/m)] | [dB(µV/m)] | [dB] | [cm] [d | eg] | |
| 1 | 0.133 | V | 33.0 | 24.8 | 57.8 | 105.1 | 47.3 | 100.0 | 75.4 | |
| 2 | 0.133 | H | 38.0 | 24.8 | 62.8 | 105.1 | 42.3 | 100.0 | 345.7 | |
| 3 | 13.559 | H | 36.7 | 26.1 | 62.8 | 69.5 | 6.7 | 100.0 | 355.7 | |
| 4 | 13.559 | V | 28.3 | 26.1 | 54.4 | 69.5 | 15.1 | 100.0 | 65.4 | |

Remark:

- Result = Reading + c.f(correction factor)
- 2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- 3. The test result in peak detector is less than quasi-peak limit.
- 4. For the transmitter, frequencies of 13.56 MHz and 125 kHz were used. Tested while two signals were being transmitted.

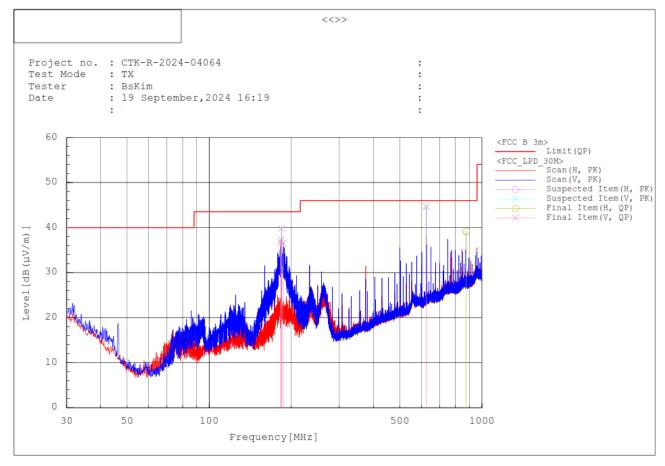


Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (15) / (19) Pages

3) Radiated emissions in the frequency range of 30 MHz to 1 000 MHz

The requirements are:



Final Result

| No. | Frequency | Pol | | c.f | Result | Limit | | Height | Angle |
|-----|-----------|-----|----------|-----------|------------|------------|------|---------|-------|
| | | | QP | | QP | QP | QP | | |
| | [MHz] | | [dB(µV)] | [dB(1/m)] | [dB(µV/m)] | [dB(µV/m)] | [dB] | [cm] [c | ieg] |
| 1 | 182.969 | V | 51.9 | -15.2 | 36.7 | 43.5 | 6.8 | 100.0 | 70.1 |
| 2 | 183.551 | V | 52.5 | -15.2 | 37.3 | 43.5 | 6.2 | 100.0 | 203.5 |
| 3 | 184.327 | V | 55.0 | -15.2 | 39.8 | 43.5 | 3.7 | 100.0 | 192.7 |
| 4 | 186.849 | V | 51.8 | -15.3 | 36.5 | 43.5 | 7.0 | 100.0 | 114.7 |
| 5 | 625.095 | V | 46.8 | -2.1 | 44.7 | 46.0 | 1.3 | 100.0 | 2.4 |
| 6 | 875.064 | H | 36.3 | 2.9 | 39.2 | 46.0 | 6.8 | 299.9 | 182.6 |

Remark:

- 1. Result = Reading + c.f(Correction factor)
- 2. Correction factor = Antenna factor + Cable loss + 6 dB attenuator Amp. Gain
- 3. For the transmitter, frequencies of 13.56 MHz and 125 kHz were used. Tested while two signals were being transmitted.
- 4. The test result in peak detector is less than quasi-peak limit.



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (16) / (19) Pages

4.3 AC Conducted Emissions

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz-30 MHz, shall not exceed the limits.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2.2

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

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

^{*} The level decreases linearly with the logarithm of the frequency.

Test Results

The requirements are:

^{**} A linear average detector is required.

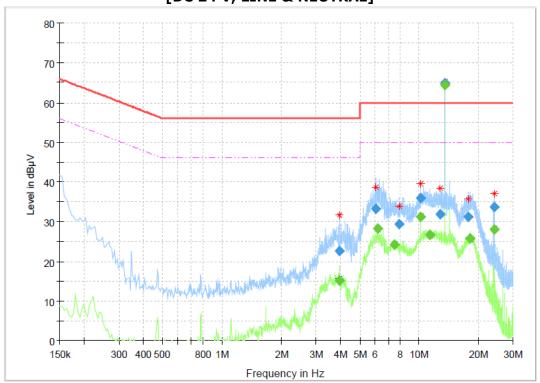


Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (17) / (19) Pages

Test Data





Final Result

| i iiidi_Nesuit | | | | | | | | | | | | |
|----------------|-----------|----------|--------|--------|------------|-----------|------|--------|-------|--|--|--|
| Frequency | QuasiPeak | CAverage | Limit | Margin | Meas. Time | Bandwidth | Line | Filter | Corr. | | | |
| (MHz) | (dBµV) | (dBµV) | (dBµV) | (dB) | (ms) | (kHz) | | | (dB) | | | |
| 3.934500 | | 15.25 | 46.00 | 30.75 | 15000.0 | 9.000 | N | ON | 9.7 | | | |
| 3.939000 | 22.68 | | 56.00 | 33.32 | 15000.0 | 9.000 | L1 | ON | 9.6 | | | |
| 6.072000 | 33.12 | | 60.00 | 26.88 | 15000.0 | 9.000 | N | ON | 10.0 | | | |
| 6.144000 | - | 28.20 | 50.00 | 21.80 | 15000.0 | 9.000 | N | ON | 10.0 | | | |
| 7.530000 | | 24.25 | 50.00 | 25.75 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 7.953000 | 29.49 | | 60.00 | 30.51 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 10.239000 | | 31.21 | 50.00 | 18.79 | 15000.0 | 9.000 | L1 | ON | 9.8 | | | |
| 10.239000 | 35.91 | | 60.00 | 24.09 | 15000.0 | 9.000 | L1 | ON | 9.8 | | | |
| 11.328000 | | 26.74 | 50.00 | 23.26 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 12.835500 | 31.94 | | 60.00 | 28.06 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 13.560000 | 64.84 | | 60.00 | -4.84 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 13.560000 | | 64.33 | 50.00 | -14.34 | 15000.0 | 9.000 | N | ON | 9.9 | | | |
| 17.772000 | 31.26 | | 60.00 | 28.74 | 15000.0 | 9.000 | N | ON | 10.0 | | | |
| 18.199500 | | 25.83 | 50.00 | 24.17 | 15000.0 | 9.000 | N | ON | 10.0 | | | |
| 24.000000 | - | 27.92 | 50.00 | 22.08 | 15000.0 | 9.000 | N | ON | 10.0 | | | |
| 24.000000 | 33.68 | | 60.00 | 26.32 | 15000.0 | 9.000 | N | ON | 10.0 | | | |

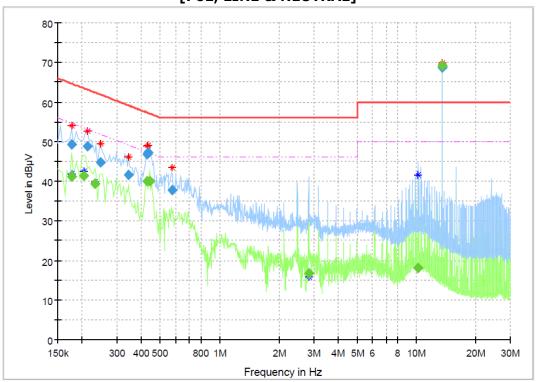
^{*} The frequency 13.56 MHz is the Fundamental signal.



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (18) / (19) Pages

[PoE, LINE & NEUTRAL]



Final Result

| i iliai itosait | | | | | | | | | | | |
|--------------------|---------------------|--------------------|-----------------|----------------|-----------------|--------------------|------|--------|---------------|--|--|
| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) | | |
| 0.177000 | | 41.09 | 54.63 | 13.54 | 15000.0 | 9.000 | L1 | ON | 10.0 | | |
| 0.177000 | 49.31 | | 64.63 | 15.32 | 15000.0 | 9.000 | L1 | ON | 10.0 | | |
| 0.204000 | - | 41.31 | 53.45 | 12.13 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.213000 | 48.71 | | 63.09 | 14.38 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.231000 | | 39.43 | 52.41 | 12.99 | 15000.0 | 9.000 | L1 | ON | 9.8 | | |
| 0.249000 | 44.71 | | 61.79 | 17.08 | 15000.0 | 9.000 | L1 | ON | 9.7 | | |
| 0.343500 | 41.56 | | 59.12 | 17.55 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.429000 | | 39.95 | 47.27 | 7.32 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.429000 | 46.72 | | 57.27 | 10.55 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.433500 | 47.31 | | 57.19 | 9.88 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 0.442500 | | 40.11 | 47.02 | 6.90 | 15000.0 | 9.000 | N | ON | 10.0 | | |
| 0.573000 | 37.75 | | 56.00 | 18.25 | 15000.0 | 9.000 | L1 | ON | 9.9 | | |
| 2.836500 | | 16.71 | 46.00 | 29.29 | 15000.0 | 9.000 | L1 | ON | 9.6 | | |
| 10.239000 | | 18.17 | 50.00 | 31.83 | 15000.0 | 9.000 | N | ON | 9.9 | | |
| 13.560000 | | 69.18 | 50.00 | -19.18 | 15000.0 | 9.000 | N | ON | 9.9 | | |
| 13.560000 | 68.65 | | 60.00 | -8.65 | 15000.0 | 9.000 | N | ON | 9.9 | | |

^{*} The frequency 13.56 MHz is the Fundamental signal.



Fax: +82-31-624-9501

Report No.: CTK-2024-02637 Page (19) / (19) Pages

APPENDIX A - Test Equipment Used For Tests

| | Name of Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|----|----------------------------------|---------------------------------------|-------------|---------------------|------------|-----------------|
| 1 | Signal Analyzer | Agilent | N9020A | MY50510324 | 2023-12-05 | 2024-12-05 |
| 2 | Signal Generator | Rohde & Schwarz | SMB100A | 175528 | 2024-03-21 | 2025-03-21 |
| 3 | EMI TEST RECEIVER | Rohde & Schwarz | ESW44 | 102039 | 2024-04-29 | 2025-04-29 |
| 4 | Bilog Antenna | TESEQ | CBL6111D | 60654 | 2023-08-21 | 2025-08-21 |
| 5 | Active Loop Antenna | SCHWARZBECK | FMZB 1513 | 1513-125 | 2024-04-15 | 2026-04-15 |
| 6 | Attenuator | PASTERNACK | PE7AP006-06 | L20210504000 023 | 2024-07-31 | 2025-07-31 |
| 7 | Attenuator | NONE | 6dB | 190557 | 2023-09-25 | 2024-09-25 |
| 8 | AMPLIFIER | SONOMA | 310N | 411011 | 2024-07-31 | 2025-07-31 |
| 9 | Dual-Tracking DC Power Supply | Topward Electric Instruments Co.,Ltd. | 6303D | 711196 | 2024-03-20 | 2025-03-20 |
| 10 | DC POWER SUPPLY | HP | E3632A | MY40009327 | 2024-03-20 | 2025-03-20 |
| 11 | EMI Test Receiver | R&S | ESR3 | 102826 | 2024-04-29 | 2025-04-29 |
| 12 | LISN | R&S | ENV216 | 101236 | 2023-10-31 | 2024-10-31 |

| No. | Cable | Manufacturer | Model No. | Serial No. | Check Date |
|-----|----------------------------------|--------------------|--------------|------------|------------|
| 1 | RF Cable(conducted) | Junkosha Inc. | MWX221 | 2008S240 | 2024-08-27 |
| 2 | RF Cable (Line Conducted) | Canare Corporation | L-5D2W | N/A | 2024-03-05 |
| 3 | RF Cable (9kHz-1GHz Radiated) | Canare Corporation | L-5D2W | N/A | 2024-03-05 |
| 4 | RF Cable (9kHz-1GHz Radiated) | HUBER+SUHNER | SUCOFLEX 104 | MY27558/4 | 2024-03-05 |