



Shenzhen CTL Testing Technology Co., Ltd.  
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# TEST REPORT

## 47 CFR FCC Part 15 Subpart C 15.231

Report Reference No.....: CTL2504118151-WF

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Product Name.....: Remote Controller

Model/Type reference.....: LF-YJ001-433

List Model(s).....: LF-YJ002-433, LF-YJ003-433, LF-YJ004-433, LF-YJ005-433,  
LF-YJ006-433, LF-YJ007-433, LF-YJ008-433

Trade Mark.....: N/A

FCC ID.....: 2BMEN-LF-YJ001

Applicant's name.....: Lifud Technology Co., Ltd.

Address of applicant.....: 401-408, Block B, Building 1, Xingzhan Plaza, No.446,  
Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen, Guangdong,  
China, 518104

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,  
Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: 47 CFR FCC Part 15 Subpart C 15.231

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of receipt of test item.....: April 15, 2025

Date of Test Date.....: May 7, 2025-June 17, 2025

Date of Issue.....: June 18, 2025

Result.....: Pass

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# TEST REPORT

|                                           |                                |
|-------------------------------------------|--------------------------------|
| <b>Test Report No. :</b> CTL2504118151-WF | June 18, 2025<br>Date of issue |
|-------------------------------------------|--------------------------------|

Equipment under Test : Remote Controller

Sample No. : CTL2504118151

Model /Type : LF-YJ001-433

Listed Models : LF-YJ002-433, LF-YJ003-433, LF-YJ004-433,  
LF-YJ005-433, LF-YJ006-433, LF-YJ007-433,  
LF-YJ008-433

**Applicant** : Lifud Technology Co., Ltd.

Address : 401-408, Block B, Building 1, Xingzhan Plaza, No.446,  
Nanhuan Rd., Shajing St., Bao'an Dist., Shenzhen,  
Guangdong, China, 518104

**Manufacturer** : Sichuan Ledfriend Technology Co., Ltd.

Address : Shigao Economic Renshou County, Sichuan  
Province, China

|                    |               |
|--------------------|---------------|
| <b>Test result</b> | <b>Pass *</b> |
|--------------------|---------------|

\* In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

## \*\* Modified History \*\*

[illegible]

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## 1. SUMMARY

### 1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.231:](#) Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

[ANSI C63.10:2013](#) : American National Standard for Testing Unlicensed Wireless Devices

### 1.2. Test Description

| FCC and IC Requirements              |                                                 |      |
|--------------------------------------|-------------------------------------------------|------|
| FCC Part 15.207                      | Conducted Emission                              | N/A  |
| FCC Part 15.231(a)(1)                | Automatically Deactivate                        | PASS |
| FCC Part 15.231(b)                   | Electric Field Strength of Fundamental Emission | PASS |
| FCC Part 15.205 & 15.209 & 15.231(b) | Electric Field Strength of Spurious Emission    | PASS |
| FCC Part 15.215                      | -20dB bandwidth                                 | PASS |
| FCC Part 15.203                      | Antenna requirement.                            | PASS |

Remark: The measurement uncertainty is not included in the test result.

### 1.3. Test Facility

#### 1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

#### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

##### **CNAS-Lab Code: L7497**

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

##### **A2LA-Lab Cert. No. 4343.01**

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

##### **IC Registration No.: 9618B**

##### **CAB identifier: CN0041**

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

##### **FCC-Registration No.: 399832**

##### **Designation No.: CN1216**

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

### 1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

| Test                         | Measurement Uncertainty | Notes |
|------------------------------|-------------------------|-------|
| Transmitter power Radiated   | ±2.20 dB                | (1)   |
| Radiated Emission 9KHz~30MHz | ±3.66dB                 | (1)   |
| Radiated Emission 30~1000MHz | ±4.08dB                 | (1)   |

|                                                 |                                                                     |     |
|-------------------------------------------------|---------------------------------------------------------------------|-----|
| Radiated Emission Above 1GHz                    | $\pm 4.32\text{dB}$                                                 | (1) |
| 20dB Bandwidth                                  | $\pm 1.9\%$                                                         | (1) |
| Maximum Conducted Output Power                  | $\pm 1.18\text{ dB}$                                                | (1) |
| Maximum Power Spectral Density Level            | $\pm 0.98\text{ dB}$                                                | (1) |
| Band-edge                                       | $\pm 1.21\text{dB}$                                                 | (1) |
| Unwanted Emissions In Non-restricted Freq Bands | 9kHz-7GHz: $\pm 1.09\text{dB}$<br>7GHz-26.5GHz: $\pm 3.27\text{dB}$ | (1) |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95%

(2) confidence level using a coverage factor of  $k=1.96$ .

## 2. GENERAL INFORMATION

### 2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                     |         |
|---------------------|---------|
| Normal Temperature: | 25°C    |
| Relative Humidity:  | 55 %    |
| Air Pressure:       | 101 kPa |

### 2.2. General Description of EUT

|                            |                          |
|----------------------------|--------------------------|
| Product Name:              | Remote Controller        |
| Model/Type reference:      | LF-YJ001-433             |
| EUT Rated Voltage:         | DC 2.6V-3.5V for battery |
| Test Voltage:              | DC 3.0V for battery      |
| <b>Wireless technology</b> |                          |
| Operating frequency:       | 433.965MHz               |
| Modulation type:           | ASK                      |
| Antenna type:              | PCB Antenna              |
| Antenna Gain:              | 0 dBi                    |

Note: For more details, please refer to the user's manual of the EUT.

### 2.3. Description of Test Modes and Test Frequency

The EUT was tested under typical operating condition. The applicant provides drivers to make it work in general use, and software can obtain data from it to see if it works intended during testing.

### 2.4. Equipments Used during the Test

| Conducted Emission |                 |           |              |                  |                 |
|--------------------|-----------------|-----------|--------------|------------------|-----------------|
| Test Equipment     | Manufacturer    | Model No. | Serial No.   | Last calibration | Calibration Due |
| EMI Test Receiver  | ROHDE & SCHWARZ | ESCI      | 1166.5950.03 | 2025/04/29       | 2026/04/28      |
| LISN               | ROHDE & SCHWARZ | ESH2-Z5   | 860014/010   | 2025/04/29       | 2026/04/28      |
| Limitator          | ROHDE & SCHWARZ | ESH3-Z2   | 100408       | 2025/04/29       | 2026/04/28      |
| Software:          |                 |           |              |                  |                 |
| Name of Software:  |                 |           | Version:     |                  |                 |
| ES-K1              |                 |           | V1.71        |                  |                 |

| Radiated Emission   |              |           |            |            |            |
|---------------------|--------------|-----------|------------|------------|------------|
| Test Equipment      | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal.Due    |
| Active Loop Antenna | Da Ze        | ZN30900A  | /          | 2024/04/30 | 2027/04/29 |



|                                 |                      |           |              |            |            |
|---------------------------------|----------------------|-----------|--------------|------------|------------|
| Double cone logarithmic antenna | Schwarzbeck          | VULB 9168 | 824          | 2023/02/13 | 2026/02/12 |
| Horn Antenna                    | Sunol Sciences Corp. | DRH-118   | A062013      | 2024/11/25 | 2027/11/24 |
| Horn Antenna                    | Ocean Microwave      | OBH100400 | 26999002     | 2025/02/21 | 2028/02/20 |
| Amplifier                       | MRT-AP01M06          | MRT       | S-001        | 2025/04/29 | 2026/04/28 |
| Amplifier                       | Brief&Smart          | LNA-4018  | 2104197      | 2025/04/30 | 2026/04/29 |
| EMI Test Receiver               | ROHDE & SCHWARZ      | ESCI      | 1166.5950.03 | 2025/04/29 | 2026/04/28 |
| Spectrum Analyzer               | RS                   | FSP       | 1164.4391.38 | 2025/04/29 | 2026/04/28 |
| Software:                       |                      |           |              |            |            |
| Name of Software:               |                      |           | Version:     |            |            |
| EZ_EMG(Below 1GHz)              |                      |           | V1.1.4.2     |            |            |
| EZ_EMG(Above 1GHz)              |                      |           | V1.1.4.2     |            |            |

| RF Conducted               |              |           |            |            |            |
|----------------------------|--------------|-----------|------------|------------|------------|
| Test Equipment             | Manufacturer | Model No. | Serial No. | Last Cal.  | Cal.Due    |
| Spectrum Analyzer          | Keysight     | N9020A    | MY53420874 | 2025/04/29 | 2026/04/28 |
| Temperature/Humidity Meter | Ji Yu        | MC501     | /          | 2025/05/06 | 2026/05/05 |
| Software:                  |              |           |            |            |            |
| Name of Software:          |              |           | Version:   |            |            |
| TST-PASS                   |              |           | V2.0       |            |            |

## 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

## 2.6. Modifications

No modifications were implemented to meet testing criteria.

### 3. TEST CONDITIONS AND RESULTS

#### 3.1. Radiated Emission

##### Limit

For intentional device, according to 15.209(a) the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table.

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

In addition to the provisions of 15.231(b) and RSS 210-A1.1.2, the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

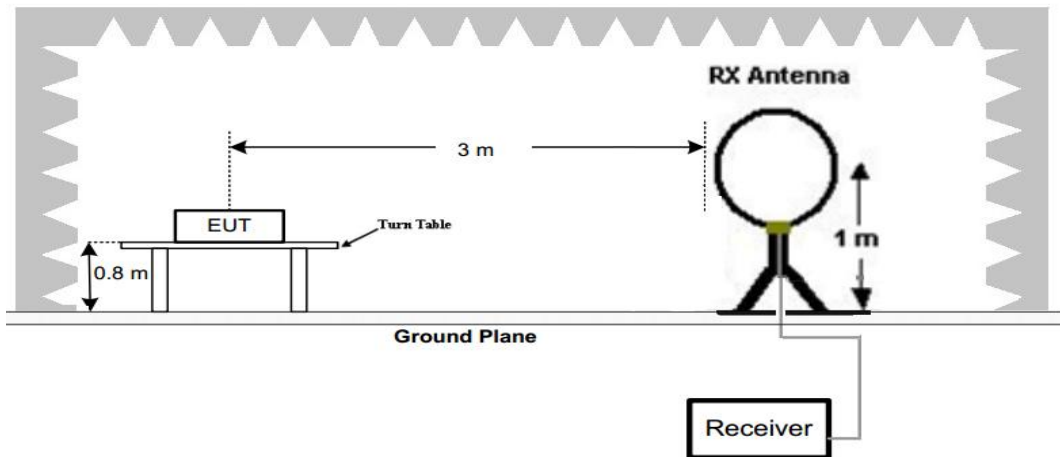
| Funda-<br>mental fre-<br>quency<br>(MHz) | Field strength of funda-<br>mental (microvolts/<br>meter) | Field strength of<br>spurious emissions<br>(microvolts/meter) |
|------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|
| 40.66–<br>40.70.                         | 2,250 .....                                               | 225                                                           |
| 70–130 .....                             | 1,250 .....                                               | 125                                                           |
| 130–174 ....                             | <sup>1</sup> 1,250 to 3,750 .....                         | <sup>1</sup> 125 to 375                                       |
| 174–260 ....                             | 3,750 .....                                               | 375                                                           |
| 260–470 ....                             | <sup>1</sup> 3,750 to 12,500 .....                        | <sup>1</sup> 375 to 1,250                                     |
| Above 470                                | 12,500 .....                                              | 1,250                                                         |

<sup>1</sup> Linear interpolations.

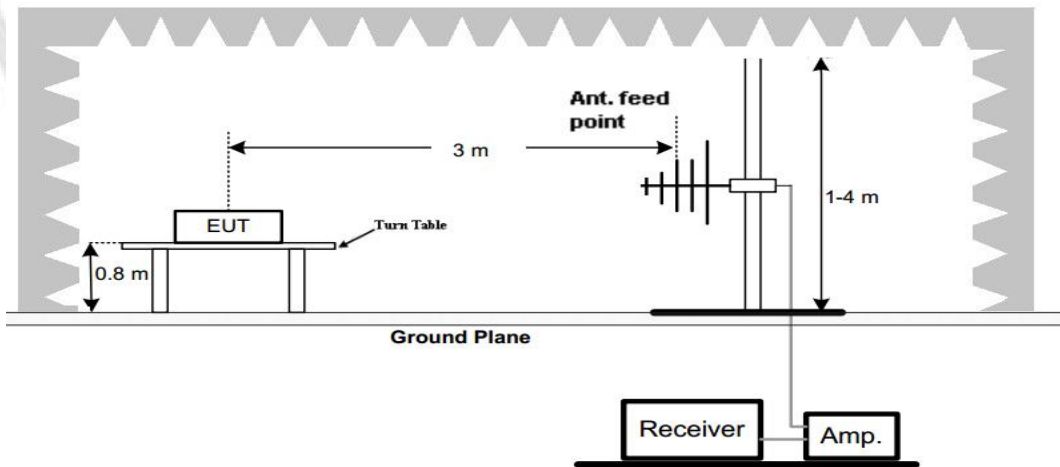
[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 260-470 MHz, μV/m at 3 meters =  $41.6667(F) - 7083.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

**TEST CONFIGURATION**

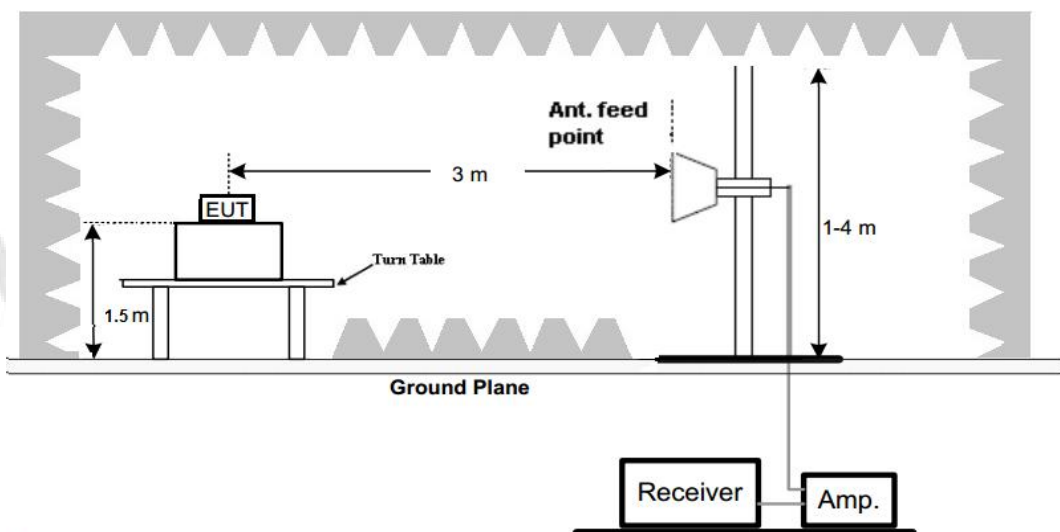
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



**Test Procedure**

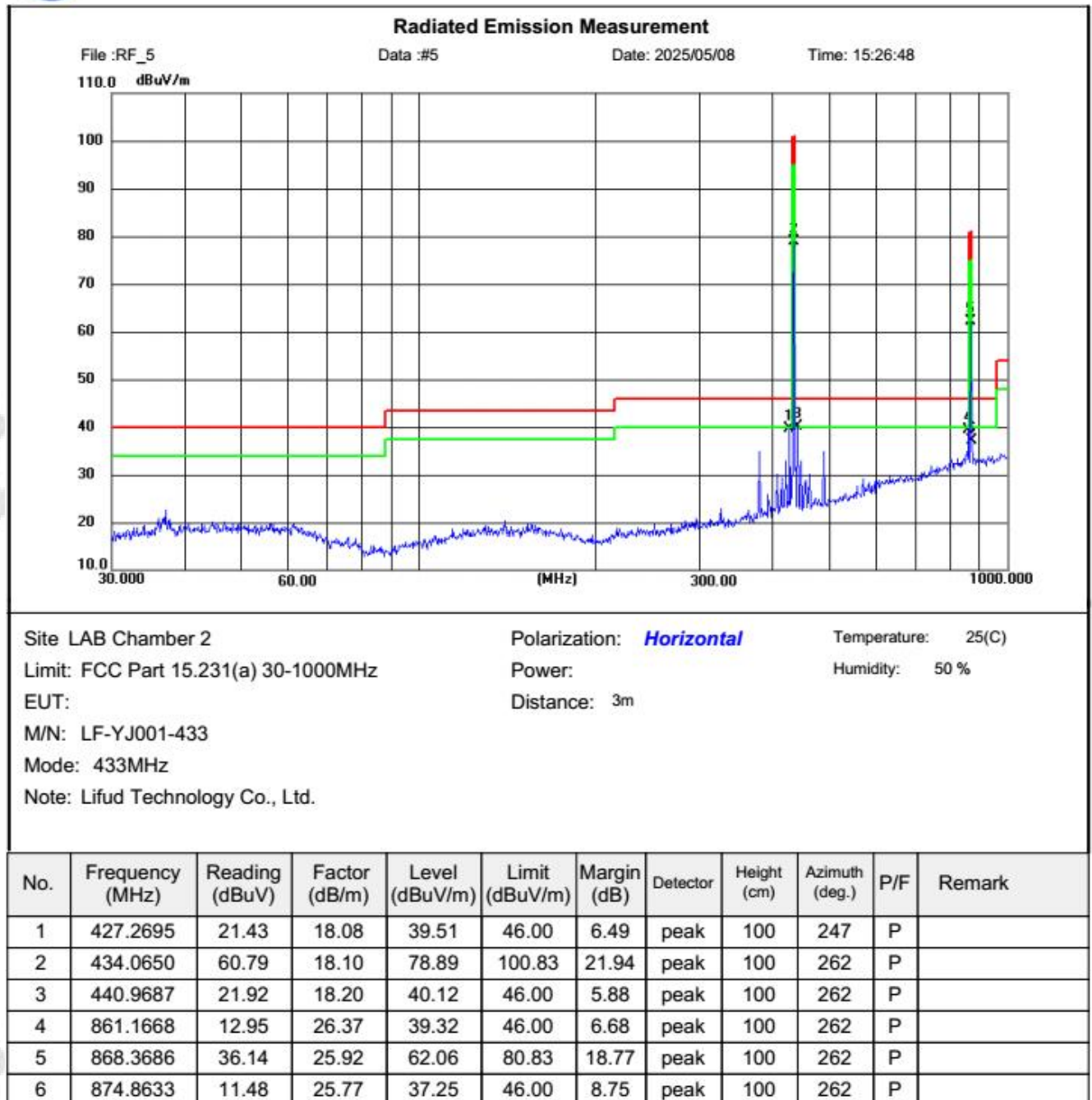
1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

## TEST RESULTS

The emissions from 30MHz to 5GHz are measured with PEAK detector; and average level calculated with Duty cycle correction according 15.35(c), detailed test data please see below. Besides, we tested 3 directions and recorded the worst data



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### Radiated Emission Measurement

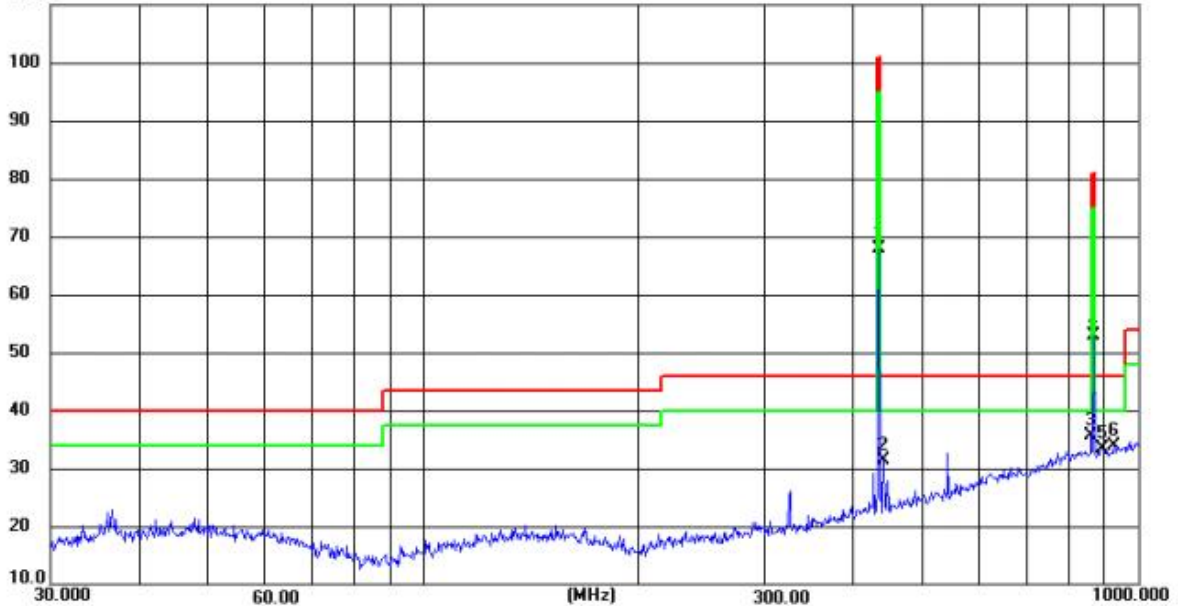
File :RF\_5

Data :#6

Date: 2025/05/08

Time: 15:27:39

110.0 dBuV/m



Site LAB Chamber 2

Limit: FCC Part 15.231(a) 30-1000MHz

EUT:

M/N: LF-YJ001-433

Mode: 433MHz

Note: Lifud Technology Co., Ltd.

Polarization: **Vertical**

Power:

Distance: 3m

Temperature: 25(C)

Humidity: 50 %

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 434.0650        | 49.78          | 18.10         | 67.88          | 100.83         | 32.95       | peak     | 100         | 351            | P   |        |
| 2   | 440.9687        | 13.09          | 18.20         | 31.29          | 46.00          | 14.71       | peak     | 100         | 323            | P   |        |
| 3   | 861.1668        | 9.30           | 26.37         | 35.67          | 46.00          | 10.33       | peak     | 100         | 265            | P   |        |
| 4   | 868.3686        | 27.06          | 25.92         | 52.98          | 80.83          | 27.85       | peak     | 100         | 265            | P   |        |
| 5   | 891.5090        | 6.98           | 26.33         | 33.31          | 46.00          | 12.69       | peak     | 100         | 125            | P   |        |
| 6   | 926.5682        | 6.94           | 26.93         | 33.87          | 46.00          | 12.13       | peak     | 100         | 25             | P   |        |

| Emission Styles | Frequency (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Direction (H/V) |
|-----------------|-----------------|----------------|----------------|-------------|----------|-----------------|
| Fundamental     | 434.0650        | 78.89          | 100.83         | 21.94       | PK       | H               |
| Harmonics       | 868.3686        | 62.06          | 80.83          | 18.77       | PK       | H               |
| Harmonics       | 1302.1950       | 58.86          | 74.00          | 15.14       | PK       | H               |
| Harmonics       | 1736.2600       | 55.47          | 80.83          | 25.36       | PK       | H               |
| --              | --              | --             | --             | --          | --       | --              |
| Fundamental     | 434.0650        | 67.88          | 100.83         | 32.95       | PK       | V               |
| Harmonics       | 868.3686        | 52.98          | 80.83          | 27.85       | PK       | V               |
| Harmonics       | 1302.1950       | 48.84          | 74.00          | 25.12       | PK       | V               |
| Harmonics       | 1736.2600       | 46.17          | 80.83          | 34.66       | PK       | V               |
| --              | --              | --             | --             | --          | --       | --              |

| Emission Styles | Frequency (MHz) | PK Level (dBuV/m) | AV Factor (dB/m) | AV Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Direction (H/V) |
|-----------------|-----------------|-------------------|------------------|-------------------|----------------|-------------|-----------------|
| Fundamental     | 434.0650        | 78.89             | -9.37            | 69.52             | 80.83          | 11.31       | H               |
| Harmonics       | 868.3686        | 62.06             | -9.37            | 52.69             | 60.83          | 8.14        | H               |
| Harmonics       | 1302.1950       | 58.86             | -9.37            | 49.49             | 54.00          | 4.51        | H               |
| Harmonics       | 1736.2600       | 55.47             | -9.37            | 46.10             | 60.83          | 14.73       | H               |
| --              | --              | --                | --               | --                | --             | --          | --              |
| Fundamental     | 434.0650        | 67.88             | -9.37            | 58.51             | 80.83          | 22.32       | V               |
| Harmonics       | 868.3686        | 52.98             | -9.37            | 43.61             | 60.83          | 17.22       | V               |
| Harmonics       | 1302.1950       | 48.84             | -9.37            | 39.47             | 54.00          | 14.53       | V               |
| Harmonics       | 1736.2600       | 46.17             | -9.37            | 36.80             | 60.83          | 24.03       | V               |
| --              | --              | --                | --               | --                | --             | --          | --              |

Note:

1. AV Level (dBuV/m)= PK Level (dBuV/m)+ AV Factor(dB)

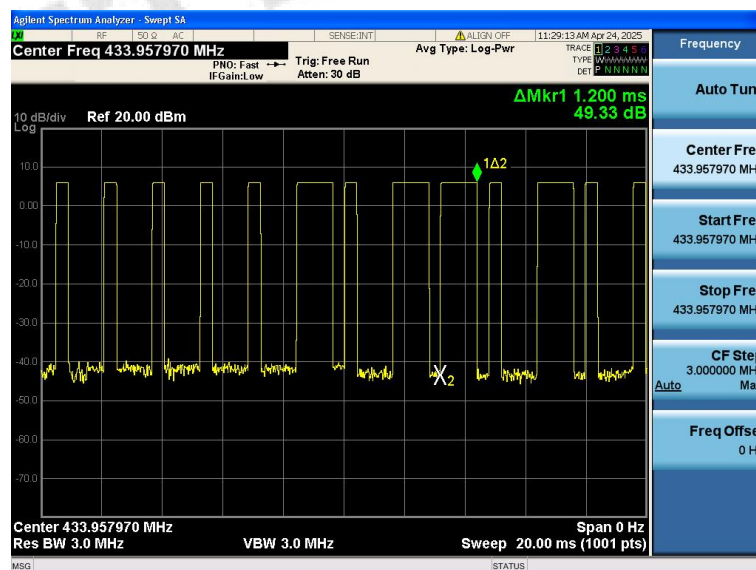
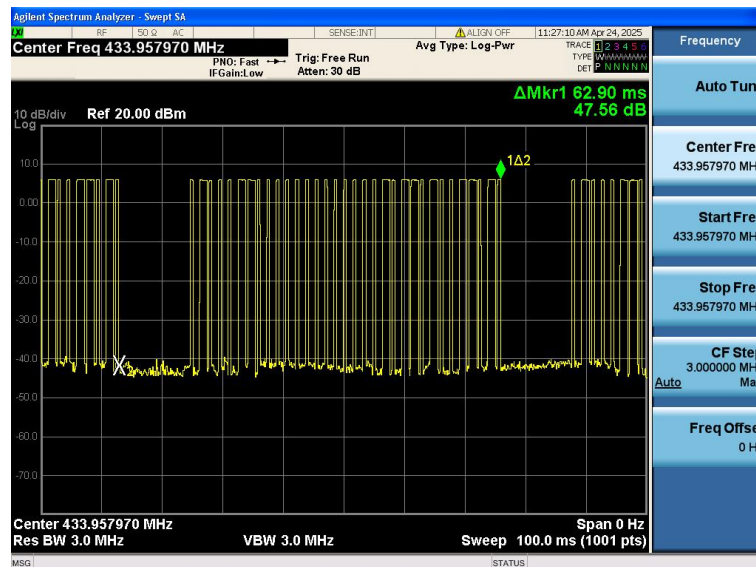
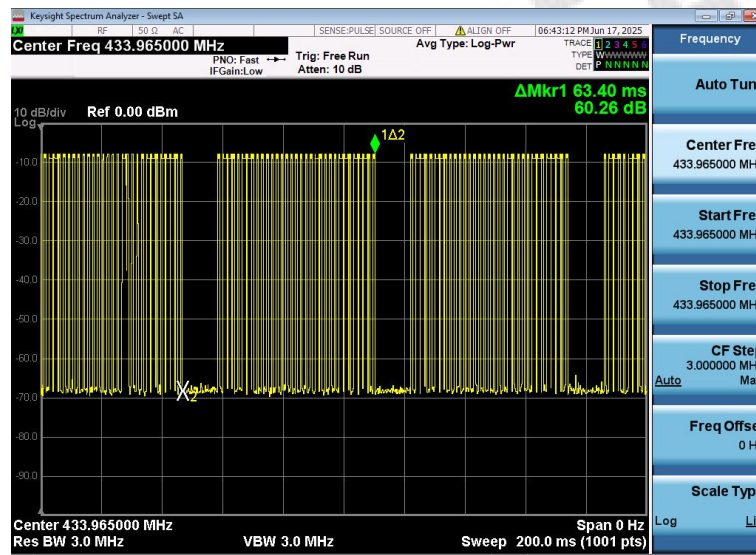
2. Duty Cycle=  $(1.2 \times 10 + 0.42 \times 23) / 62.9 = 0.34$

AV Factor=  $20 \times \log(\text{Duty Cycle}) = -9.37$

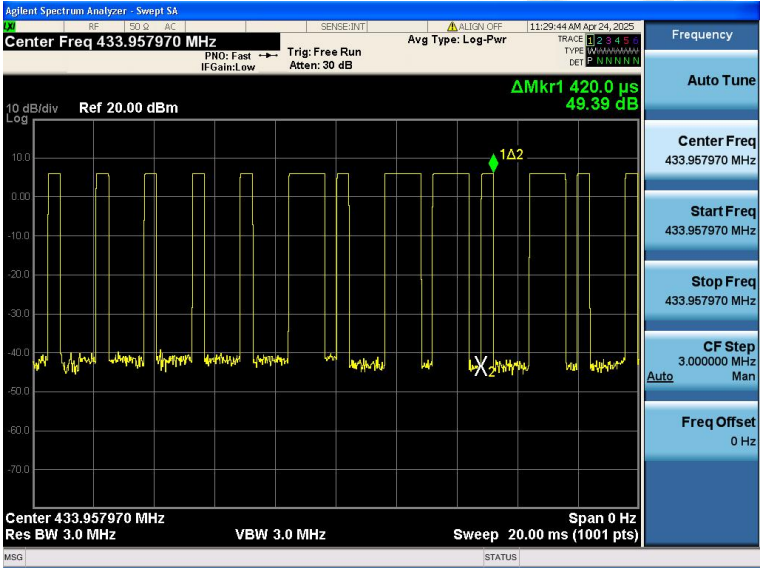
(Note: According to C63.10, if the transmit cycle period longer than 100ms, then 100ms is used calculation.)

AV Factor=  $20 \times \log(\text{Duty Cycle}) = -9.37$

(The plot of Duty Cycle See the follow page)





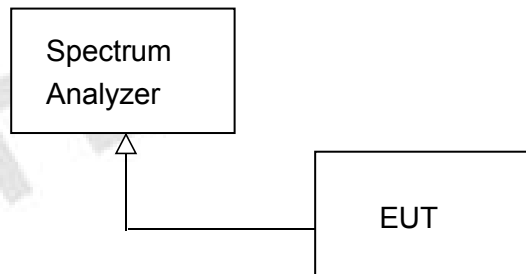


### 3.2. 20dB Bandwidth

#### Limit

According to 47 CFR 15.215 The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20dB down from the modulated carrier.

#### Test Configuration



#### Test Procedure

The 20dB bandwidth and 99% bandwidth is measured with a spectrum analyzer connected via a receive antenna placed near the EUT while the EUT is operating in transmission mode.

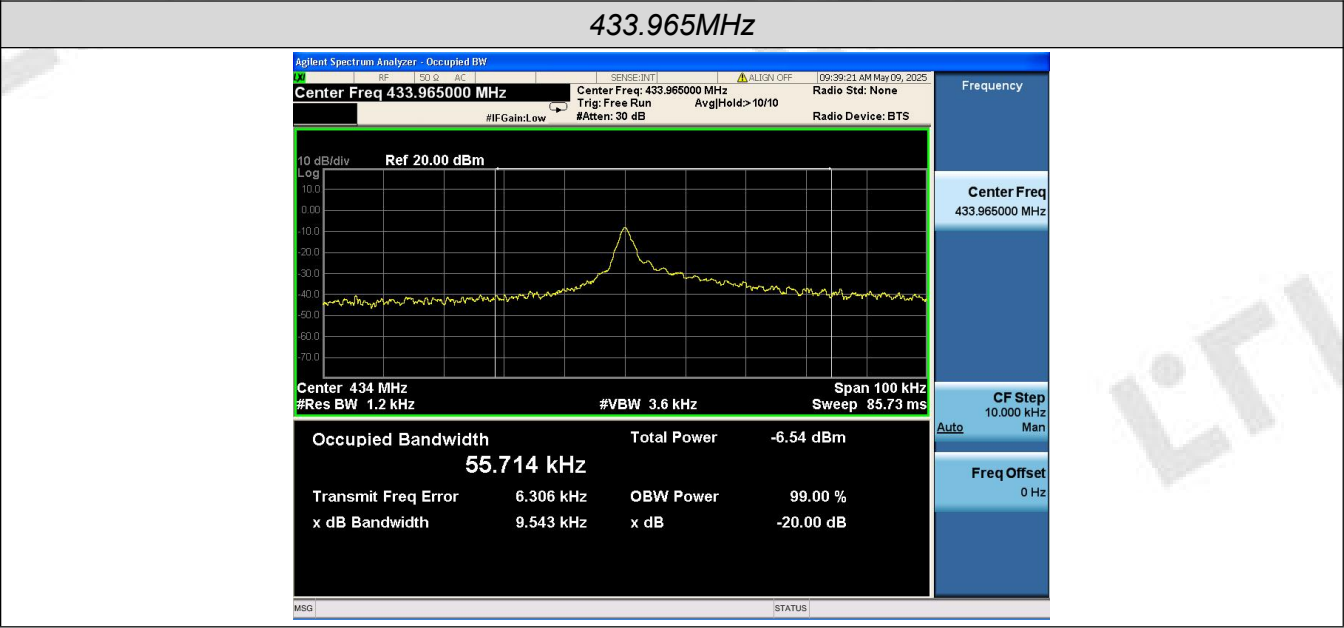
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

#### Test Results

| Modulation | Channel Frequency (MHz) | 99% OBW (kHz) | 20dB bandwidth (kHz) | Limit (kHz)                      | Result |
|------------|-------------------------|---------------|----------------------|----------------------------------|--------|
| ASK        | 433.965                 | 55.714        | 9.543                | $0.25\% \times 433965 = 1084.91$ | Pass   |

Test plot as follows:

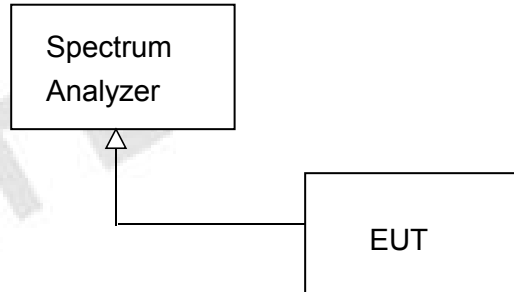


### 3.3. Dwell Time

#### Limit

According to FCC §15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

#### Test Configuration



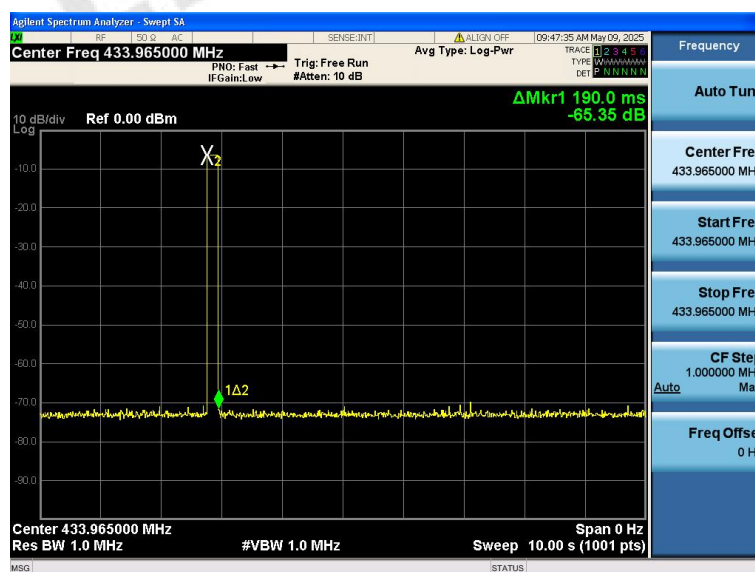
#### Test Procedure

1. The EUT was placed on a wooded table which is 0.8m height and close to receiver antenna of spectrum analyzer.
2. The spectrum analyzer resolution bandwidth was set to 1 MHz and video bandwidth was set to 1 MHz to encompass all significant spectral components during the test. The spectrum analyzer was operated in linear scale and zero span mode after tuning to the transmitter carrier frequency.

### TEST RESULTS

Note : Multiple groups of channels are tested, only the poor frequencies are recorded, other frequencies meet the requirements.

| Frequency (MHz) | One transmission time (S) | Limit(S) | Result |
|-----------------|---------------------------|----------|--------|
| 433.965         | 0.19                      | 5        | Pass   |



### 3.4. Antenna Requirement

#### **Standard Applicable**

According to FCC Part 15C 15.203

- a) An intentional radiator shall be de-signed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.
- b) 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.

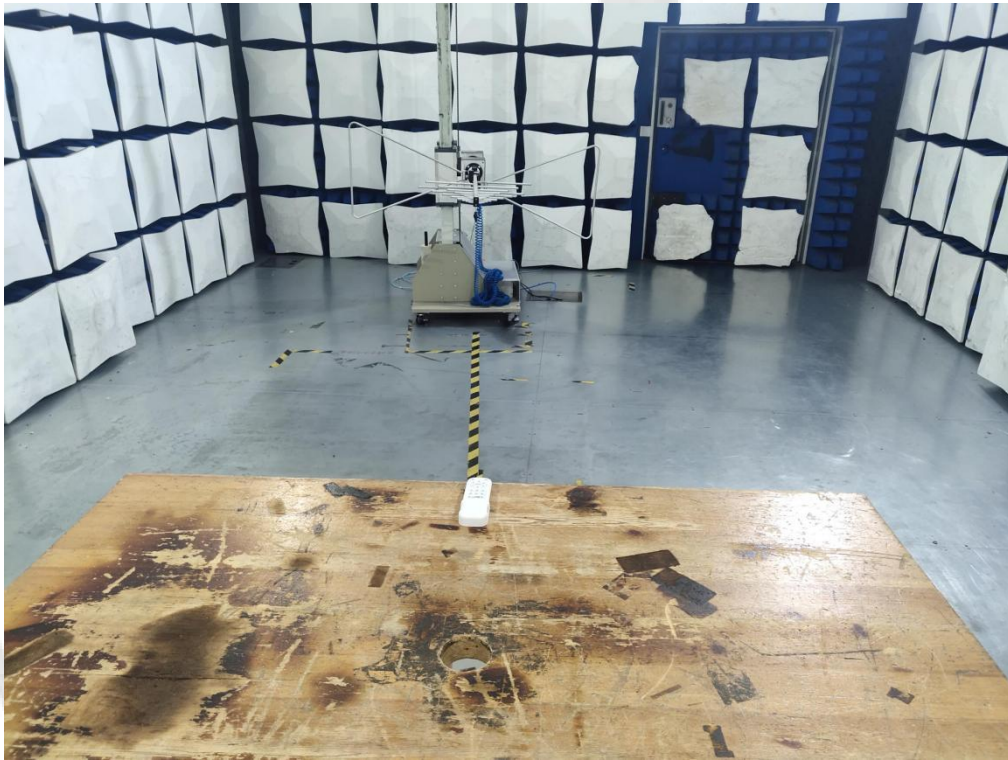
#### **Refer to statement below for compliance.**

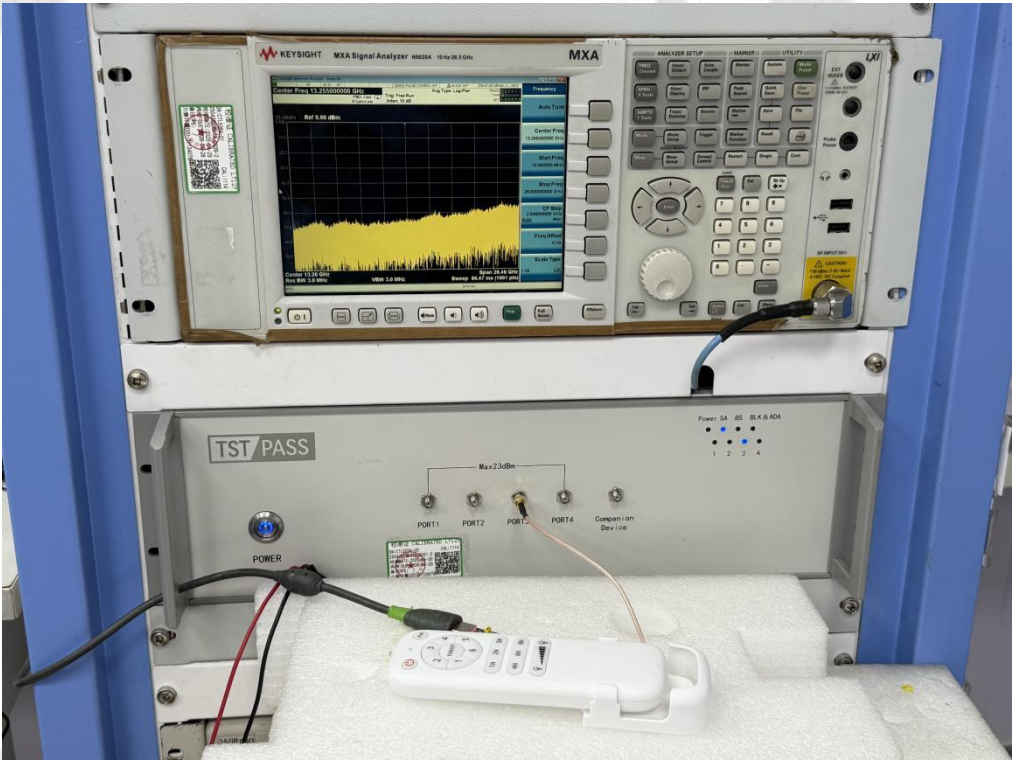
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### **Antenna Connected Construction**

The antenna used in this product is an PCB Antenna, The directional gains of antenna used for transmitting is 0 dBi.

#### 4. Test Setup Photos of the EUT







## 5. External and Internal Photos of the EUT

### External Photos of EUT





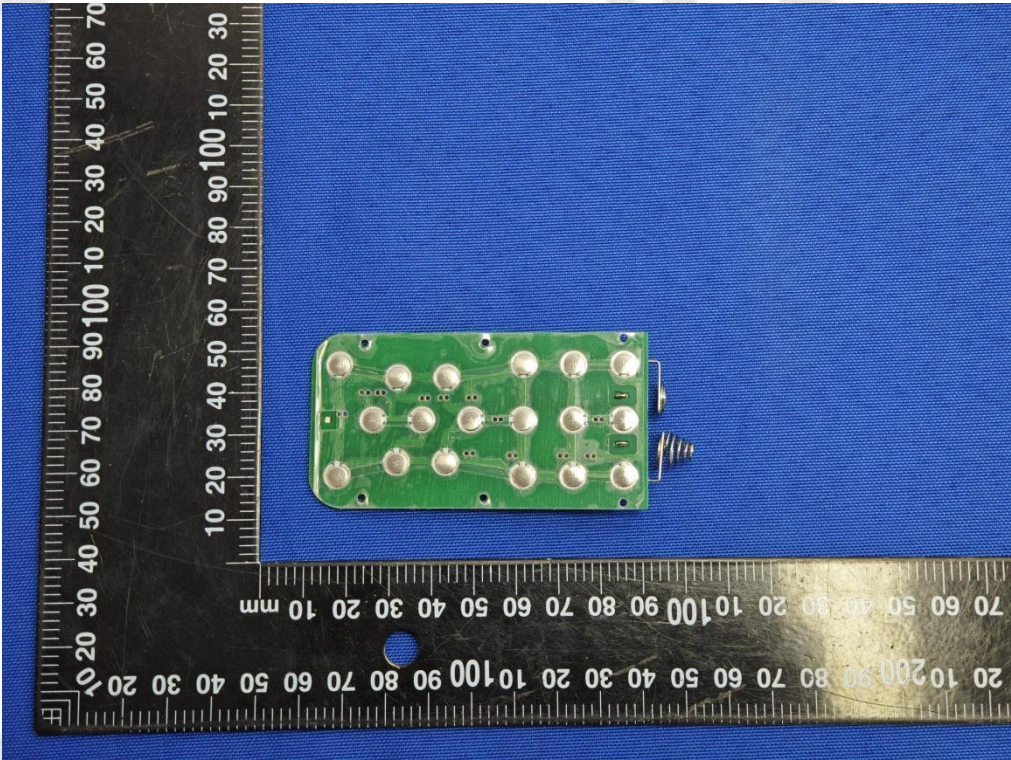
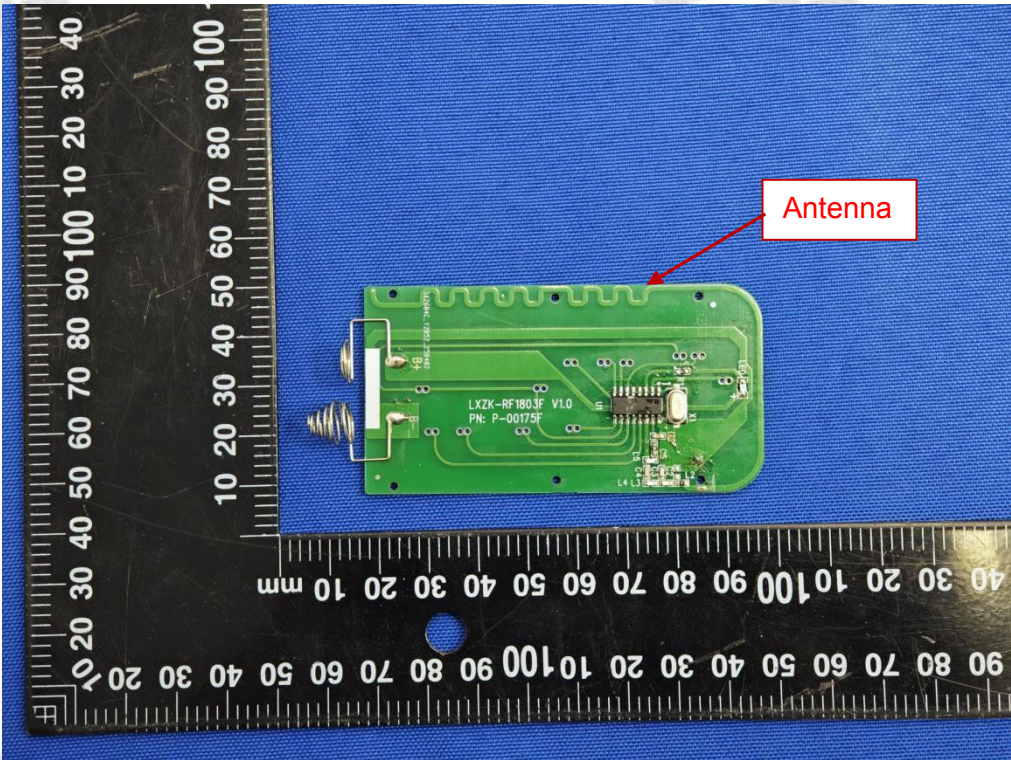


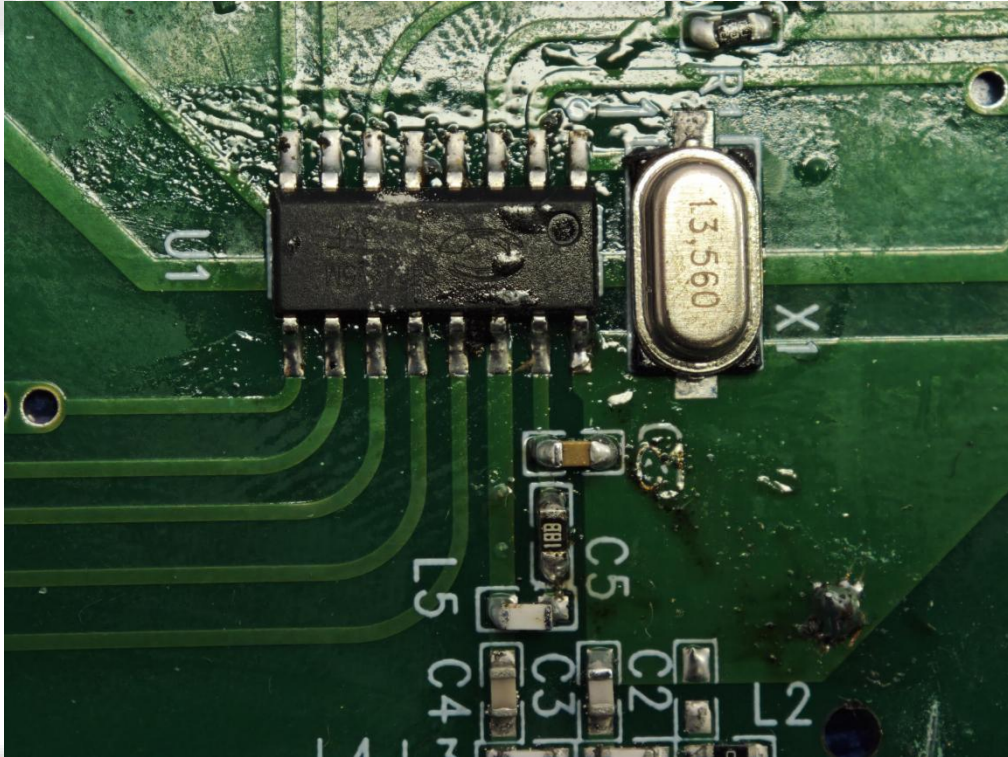




Internal Photos of EUT







\*\*\*\*\* End of Report \*\*\*\*\*