

# FCC TEST REPORT

**Report No.:** JYTSZ-R12-2501043

**Applicant:** Shenzhen Troy Tenda Technology Co., Ltd

**Address of Applicant:** Room 918, 9th Floor, Building C, Tianhui Building, Fukang Community, Longhua Street, Longhua District, Shenzhen China

**Equipment Under Test (EUT)**

Product Name: Wireless Digital Full-duplex Real-time Two-way Voice Intercom System

Model No.: UT-001P

Trade Mark: Unitalk

**FCC ID:** 2BQFX-UT001

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart D

**Date of sample receipt:** 19 Jun., 2025

**Date of Test:** 20 Jun., to 30 Jul., 2025

**Date of report issued:** 15 Aug., 2025

**Test Result:** PASS\*

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

**Project by:** \_\_\_\_\_

**Date:** 15 Aug., 2025

**Reviewed by:** \_\_\_\_\_

**Date:** 15 Aug., 2025

**Approved by:** \_\_\_\_\_

**Date:** 15 Aug., 2025

**Manager**

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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2 Version

| Version No. | Date          | Description         |
|-------------|---------------|---------------------|
| 00          | 31 Jul., 2025 | Original            |
| 01          | 13 Aug., 2025 | Update Page5, 6, 11 |
| 02          | 15 Aug., 2025 | Update Page 11      |
|             |               |                     |
|             |               |                     |

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## 4 Test Summary

| Test Item                                                                                                                                                                                                         | FCC Section                 | Result |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------|
| Antenna requirement                                                                                                                                                                                               | § 15.317, § 15.203          | PASS   |
| AC power line conducted emission                                                                                                                                                                                  | § 15.315, § 15.207(a)       | PASS   |
| Emission bandwidth                                                                                                                                                                                                | § 15.323(a)                 | PASS   |
| Peak transmit power                                                                                                                                                                                               | § 15.319(c)&(e)             | PASS   |
| Power spectral density                                                                                                                                                                                            | § 15.319(d)                 | PASS   |
| In-band and out-of-band emission                                                                                                                                                                                  | § 15.323(d)                 | PASS   |
| Carrier frequency stability                                                                                                                                                                                       | § 15.323(f)                 | PASS   |
| Frame repetition stability, period and jitter                                                                                                                                                                     | § 15.323(e)                 | PASS   |
| Automatically discontinue transmission                                                                                                                                                                            | § 15.319(f)                 | PASS   |
| Radiated spurious emission                                                                                                                                                                                        | § 15.319(g),<br>§ 15.209(a) | N/A*   |
| Specific requirements for devices<br>Operating in the 1920–1930MHz sub-<br>band.                                                                                                                                  | § 15.323(c)                 | PASS   |
| <b>Remark:</b><br>1. N/A*: Not required if Conducted Out-of-Band Emissions test is passed.<br>2. EUT support multi-antenna transmission, can be switched and the maximum antenna gain is calculated (ant 1 port). |                             |        |

## 5 General Information

### 5.1 Client Information

|                          |                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Applicant:               | Shenzhen Troy Tenda Technology Co., Ltd                                                                               |
| Address of Applicant:    | Room 918, 9th Floor, Building C, Tianhui Building, Fukang Community, Longhua Street, Longhua District, Shenzhen China |
| Manufacturer/Factory:    | Shenzhen Troy Tenda Technology Co., Ltd                                                                               |
| Address of Manufacturer: | Room 918, 9th Floor, Building C, Tianhui Building, Fukang Community, Longhua Street, Longhua District, Shenzhen China |

### 5.2 General Description of E.U.T.

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Product Name:               | Wireless Digital Full-duplex Real-time Two-way Voice Intercom System                           |
| Model No.:                  | UT-001P                                                                                        |
| Power supply:               | Rechargeable Li-ion Battery DC3.7V, 1200mAh                                                    |
| Adapter:                    | Model: SK01T2-0500100U<br>Input: AC100-240V, 50/60Hz, Max 0.2A<br>Output: DC 5V, 1000mA        |
| Remark:                     | The model No. UT-001F is for DECT Fixed Part, the model No. UT-001P is for DECT Portable Part. |
| <b>Technical Parameter:</b> |                                                                                                |
| Frequency Range:            | 1921.536 MHz~1928.448 MHz                                                                      |
| Number of channels:         | 5                                                                                              |
| Maximum Output Power:       | 42.17mW(Peak)                                                                                  |
| Modulation:                 | GFSK                                                                                           |
| Antenna Type:               | Internal Antenna                                                                               |
| Antenna Gain:               | ANT 1: 3.95 dBi (declare by Applicant)<br>ANT 2: 3.95 dBi (declare by Applicant)               |

### Channel List

| UPCS Channel    | Frequency(MHz) |
|-----------------|----------------|
| Upper Band Edge | 1930           |
| 0(Highest)      | 1928.448       |
| 1               | 1926.720       |
| 2(Middle)       | 1924.992       |
| 3               | 1923.264       |
| 4(Lowest)       | 1921.536       |
| Lower Band Edge | 1920           |

## 5.3 Related Submittal(s) / Grant (s)

The EUT is a portable device and is designed to be held to body when used. A test reports with the measured SAR values for both configurations are submitted with the application.

## 5.4 Test Methodology

|                  |                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ANSI C63.4: 2014 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz  |
| ANSI 63.17: 2013 | American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices |

## 5.5 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.6 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

## 5.7 Test Instruments list

| Radiated Emission(3m FAR):    |                 |                 |                |                      |                          |
|-------------------------------|-----------------|-----------------|----------------|----------------------|--------------------------|
| Test Equipment                | Manufacturer    | Model No.       | Manage No.     | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m FAR                        | YUNYI           | 9m*6m*6m        | WXJ097         | 06-15-2023           | 06-14-2028               |
| BiConiLog Antenna             | Schwarzbeck     | VULB9163        | WXJ097-2       | 04-24-2025           | 04-23-2026               |
| Biconical Antenna             | Schwarzbeck     | VUBA9117        | WXJ002-1       | 07-01-2024           | 06-30-2027               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ097-3       | 05-23-2025           | 05-22-2026               |
| Horn Antenna                  | Schwarzbeck     | BBHA9120D       | WXJ002-3       | 12-25-2024           | 12-24-2025               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-5       | 12-25-2024           | 12-24-2025               |
| Horn Antenna                  | Schwarzbeck     | BBHA9170        | WXJ002-6       | 12-25-2024           | 12-24-2025               |
| Pre-amplifier (30MHz ~ 1GHz)  | YUNYI           | PAM-310N        | WXJ097-5       | 04-21-2025           | 04-20-2026               |
| Pre-amplifier (1GHz ~ 18GHz)  | YUNYI           | PAM-118N        | WXJ097-6       | 04-21-2025           | 04-20-2026               |
| Pre-amplifier (18GHz ~ 40GHz) | RF System       | TRLA-180400G45B | WXJ002-7       | 12-16-2024           | 12-15-2025               |
| EMI Test Receiver             | Rohde & Schwarz | ESCI3           | WXJ003         | 12-16-2024           | 12-15-2025               |
| Spectrum Analyzer             | Rohde & Schwarz | FSP 30          | WXJ004         | 12-16-2024           | 12-15-2025               |
| Spectrum Analyzer             | KEYSIGHT        | N9020B          | WXJ081-1       | 05-08-2025           | 05-07-2026               |
| Coaxial Cable (30MHz ~ 1GHz)  | JYTSZ           | JYT3M-1G-NN-13M | WXG097-1       | 07-30-2024           | 07-29-2025               |
|                               |                 |                 |                | 07-28-2025           | 07-29-2026               |
| Coaxial Cable (1GHz ~ 18GHz)  | JYTSZ           | JYT3M-18G-NN-8M | WXG097-2       | 07-30-2024           | 07-29-2025               |
|                               |                 |                 |                | 07-28-2025           | 07-29-2026               |
| Coaxial Cable (18GHz ~ 40GHz) | JYTSZ           | JYT3M-40G-SS-8M | WXG097-3       | 07-30-2024           | 07-29-2025               |
|                               |                 |                 |                | 07-28-2025           | 07-29-2026               |
| High Band Reject Filter Group | Tonscend        | JS0806-F        | WXJ089         | N/A                  |                          |
| Low Band Reject Filter Group  | Tonscend        | JS0806-F        | WXJ097-4       | N/A                  |                          |
| Test Software                 | Tonscend        | TS+             | Version: 5.0.0 |                      |                          |

| Conducted Emission:               |                 |                |                    |                      |                          |
|-----------------------------------|-----------------|----------------|--------------------|----------------------|--------------------------|
| Test Equipment                    | Manufacturer    | Model No.      | Manage No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver                 | Rohde & Schwarz | ESR3           | WXJ003-2           | 05-08-2025           | 05-07-2026               |
| LISN                              | Schwarzbeck     | NSLK 8127      | QCJ001-13          | 12-17-2024           | 12-16-2025               |
| LISN                              | Rohde & Schwarz | ESH3-Z5        | WXJ005-1           | 12-17-2024           | 12-16-2025               |
| LISN Coaxial Cable (9kHz ~ 30MHz) | JYTSZ           | JYTCE-1G-NN-2M | WXG003-1           | 01-15-2025           | 01-14-2026               |
| RF Switch                         | TOP PRECISION   | RSU0301        | WXG003             | N/A                  |                          |
| Test Software                     | AUDIX           | E3             | Version: 6.110919b |                      |                          |

| Conducted Method:                  |                 |           |            |                      |                          |
|------------------------------------|-----------------|-----------|------------|----------------------|--------------------------|
| Test Equipment                     | Manufacturer    | Model No. | Manage No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer                  | Keysight        | N9020B    | WXJ081-1   | 09-10-2024           | 09-09-2025               |
| Digital radio communication tester | Rohde & Schwarz | CMD60     | WXJ010-1   | 03-17-2025           | 03-16-2026               |
| Temperature Humidity Chamber       | ZHONG ZHI       | CZ-A-80D  | WXJ032-3   | 12-17-2024           | 12-16-2026               |



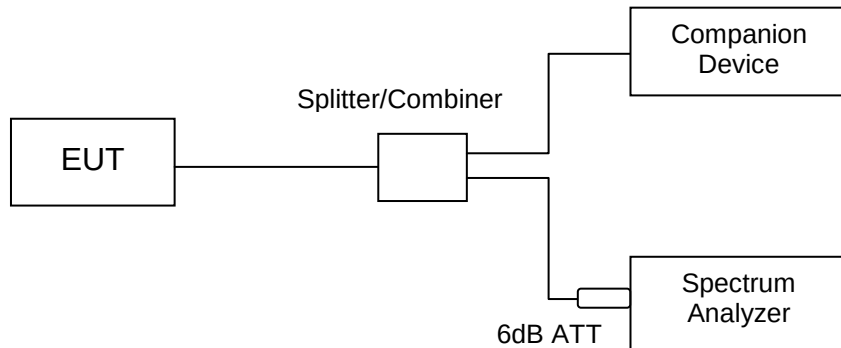
## 6 TEST CONFIGURATION AND CONDITIONS

### 6.1 EUT Configuration

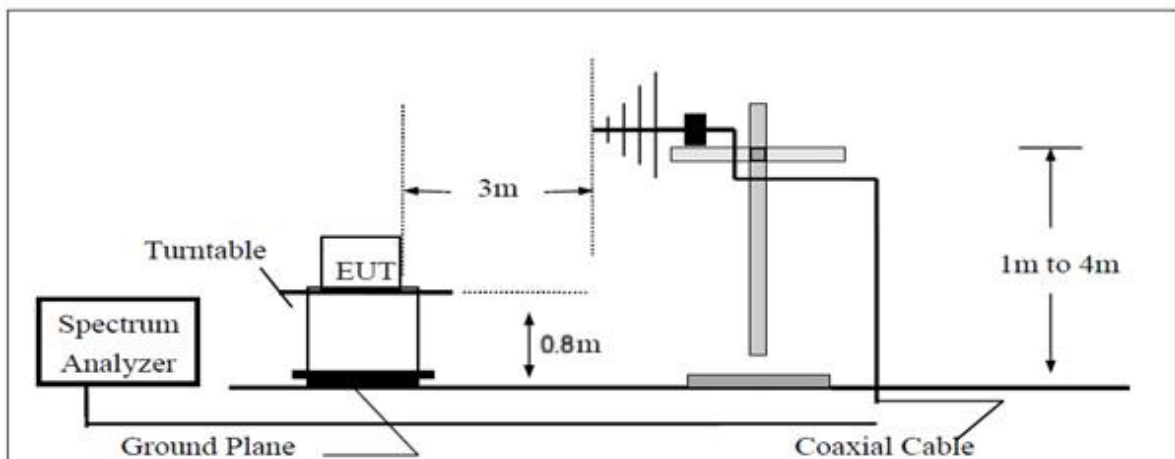
The EUT is DECT portable part (PP), and is designed to operate together with a DECT fixed part (FP). In order to meet the testing requirements, the EUT was set to the test mode (TBR6 mode).

### 6.2 Configuration of Tested System

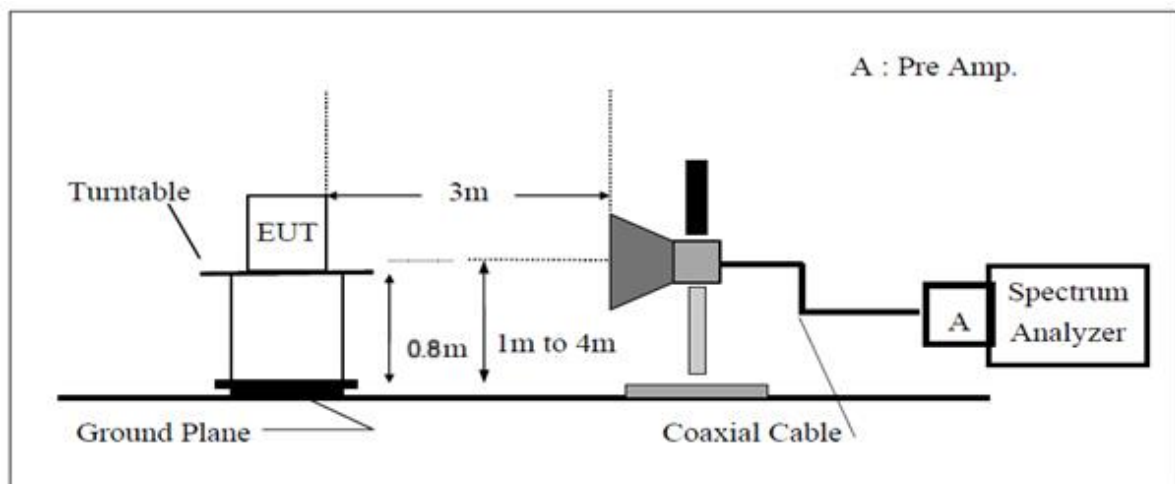
(A) RF Output Power, Power spectral density, Occupied Bandwidth, Conducted spurious emissions etc. conducted method items test setup



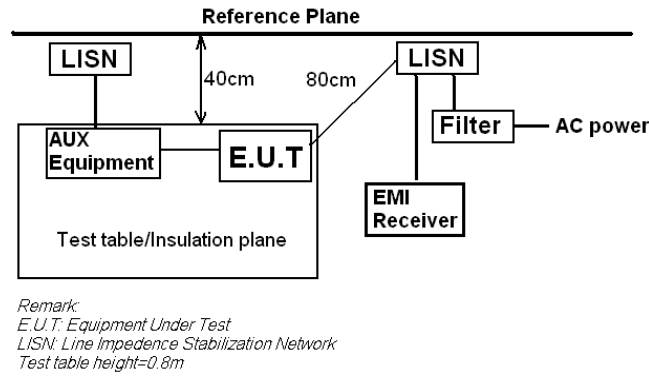
(B) Radiated emission test setup, Frequency below 1000MHz



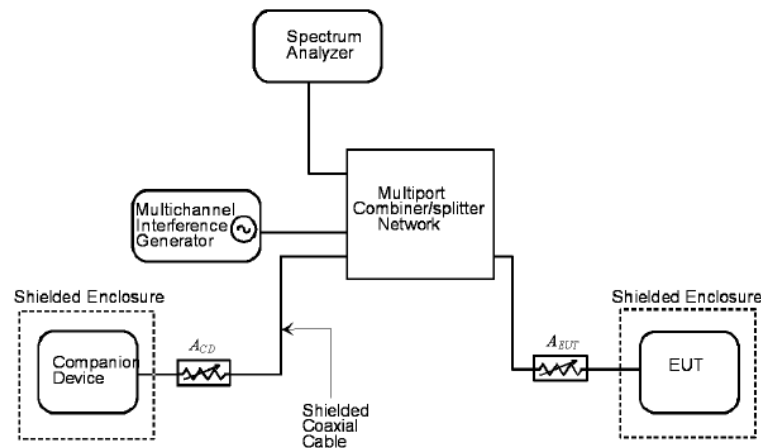
(C) Radiated Emission test setup Frequency over 1 GHz



(D) AC Power line conducted emissions test setup



(E) Monitor test setup



## 6.3 Test Environments

| Condition               | Minimum value                                                       | Maximum value |
|-------------------------|---------------------------------------------------------------------|---------------|
| Barometric pressure     | 86 kPa                                                              | 106 kPa       |
| Temperature             | 15°C                                                                | 30°C          |
| Relative Humidity       | 25 %                                                                | 75 %          |
| Power supply range      | ±5% of rated voltages                                               |               |
| Normal Test Condition   | 1. Temperature: +15 °C to +30 °C;<br>2. Voltage is AC 120V          |               |
| Extreme Test Conditions | 3. Temperatures: -10°C to +55°C.<br>4. Voltages: AC 102V to AC138V. |               |

## 6.4 Description of test modes

| Test mode | Detail description of the test mode            |
|-----------|------------------------------------------------|
| TX mode   | Keep the EUT in continuously transmitting mode |

## 6.5 Test uncertainty

| Testitems                        | Uncertainty |
|----------------------------------|-------------|
| AC power line conducted emission | ±3.28 dB    |
| Conducted method items           | ±0.96dB     |
| Radiated method items            | ±4.88 dB    |

## **7 Test results and Measurement Data**

### **7.1 Antenna Requirement**

#### **7.1.1 Standard Applicable**

According to FCC part 15.203

#### **7.1.2 Requirement**

According to FCC § 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.

#### **7.1.3 Description of Antenna Construction**

The antennas of EUT are integral antenna which permanently attached, and the best case gain of the antenna: ANT1: 3.95 dBi, ANT2: 3.95 dBi. Details please refer to product internal photos.

#### **7.1.4 Result**

Meet the requirements.

## **7.2 AC Power Line Conducted Emission**

### **7.2.1 Standard Applicable**

According to FCC part 15.315, 15.207(a)

### **7.2.2 Test Procedure**

1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.
2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.

### **7.2.3 Limits**

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

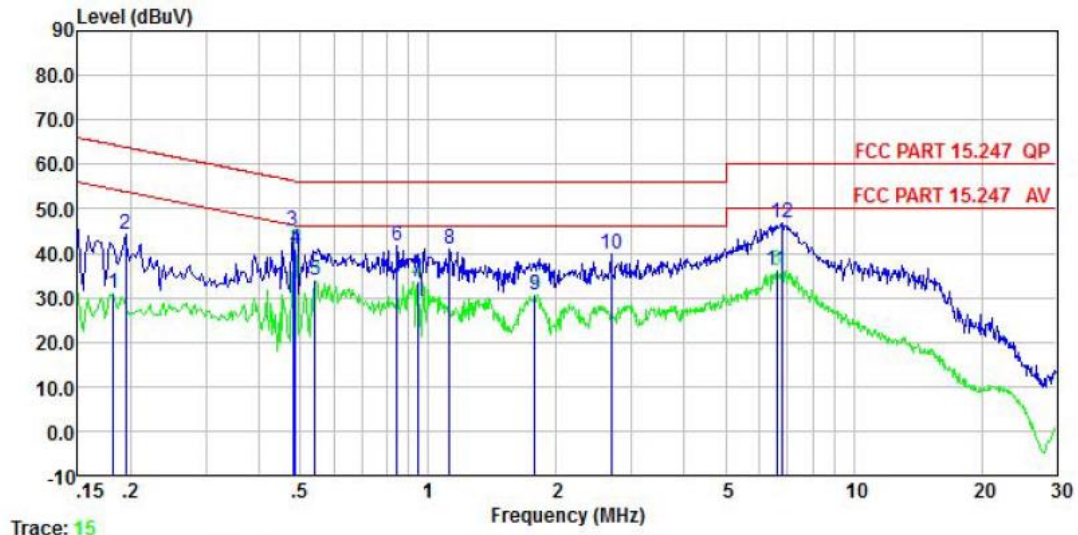
### **7.2.4 Results**

Meet the requirements

### **7.2.5 Measurement Data**

See plots as below

|                        |                                                                      |                       |                       |
|------------------------|----------------------------------------------------------------------|-----------------------|-----------------------|
| <b>Product name:</b>   | Wireless Digital Full-duplex Real-time Two-way Voice Intercom System | <b>Product model:</b> | UT-001P               |
| <b>Test by:</b>        | Mike                                                                 | <b>Test mode:</b>     | Tx mode               |
| <b>Test frequency:</b> | 150 kHz ~ 30 MHz                                                     | <b>Phase:</b>         | Line                  |
| <b>Test voltage:</b>   | AC 120 V/60 Hz                                                       | <b>Environment:</b>   | Temp: 24.2℃ Humi: 49% |

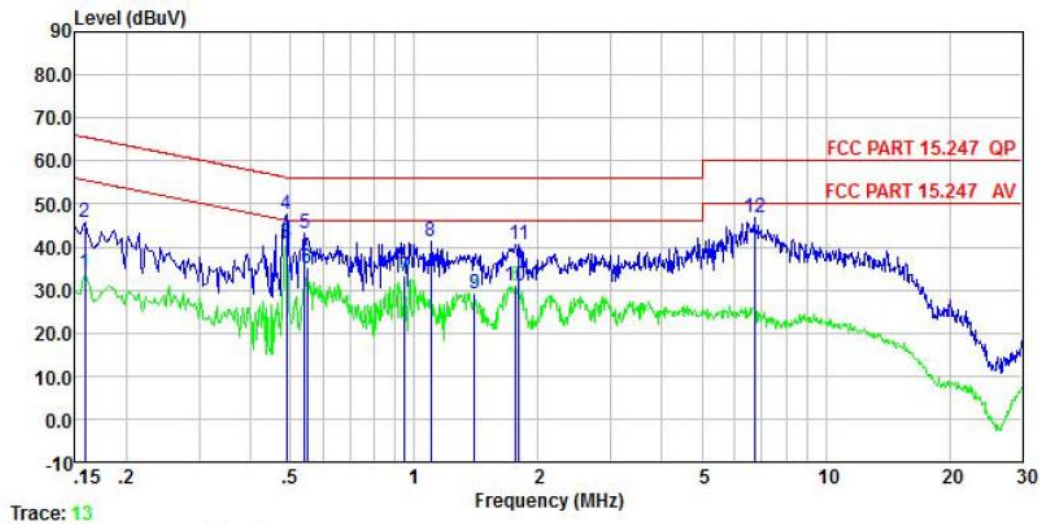


|    | Freq  | Read Level | LISN Factor | Aux Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.182 | 21.05      | -0.10       | 0.00       | 9.88        | 0.00       | 30.83 | 54.42      | -23.59     | Average |
| 2  | 0.194 | 34.51      | -0.10       | 0.00       | 9.88        | 0.00       | 44.29 | 63.84      | -19.55     | QP      |
| 3  | 0.481 | 35.26      | -0.10       | 0.00       | 9.88        | 0.00       | 45.04 | 56.32      | -11.28     | QP      |
| 4  | 0.486 | 31.24      | -0.10       | 0.00       | 9.88        | 0.00       | 41.02 | 46.23      | -5.21      | Average |
| 5  | 0.541 | 24.06      | -0.10       | 0.00       | 9.88        | 0.00       | 33.84 | 46.00      | -12.16     | Average |
| 6  | 0.844 | 31.95      | -0.10       | 0.00       | 9.88        | 0.00       | 41.73 | 56.00      | -14.27     | QP      |
| 7  | 0.943 | 23.79      | -0.10       | 0.00       | 9.88        | 0.00       | 33.57 | 46.00      | -12.43     | Average |
| 8  | 1.123 | 31.23      | -0.12       | 0.00       | 9.88        | 0.00       | 40.99 | 56.00      | -15.01     | QP      |
| 9  | 1.781 | 21.00      | -0.18       | 0.00       | 9.88        | 0.00       | 30.70 | 46.00      | -15.30     | Average |
| 10 | 2.692 | 29.97      | -0.20       | 0.00       | 9.88        | 0.00       | 39.65 | 56.00      | -16.35     | QP      |
| 11 | 6.592 | 26.58      | -0.36       | 0.00       | 9.90        | 0.00       | 36.12 | 50.00      | -13.88     | Average |
| 12 | 6.769 | 37.45      | -0.38       | 0.00       | 9.90        | 0.00       | 46.97 | 60.00      | -13.03     | QP      |

**Notes:**

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

|                        |                                                                      |                       |                       |
|------------------------|----------------------------------------------------------------------|-----------------------|-----------------------|
| <b>Product name:</b>   | Wireless Digital Full-duplex Real-time Two-way Voice Intercom System | <b>Product model:</b> | UT-001P               |
| <b>Test by:</b>        | Mike                                                                 | <b>Test mode:</b>     | Tx mode               |
| <b>Test frequency:</b> | 150 kHz ~ 30 MHz                                                     | <b>Phase:</b>         | Neutral               |
| <b>Test voltage:</b>   | AC 120 V/60 Hz                                                       | <b>Environment:</b>   | Temp: 24.2℃ Humi: 49% |



|    | Freq  | Read Level | LISN Factor | Aux Factor | Aux2 Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.158 | 23.95      | -0.10       | 0.00       | 9.88        | 0.00       | 33.73 | 55.56      | -21.83     | Average |
| 2  | 0.158 | 35.79      | -0.10       | 0.00       | 9.88        | 0.00       | 45.57 | 65.56      | -19.99     | QP      |
| 3  | 0.489 | 31.09      | -0.10       | 0.00       | 9.88        | 0.00       | 40.87 | 46.19      | -5.32      | Average |
| 4  | 0.489 | 37.61      | -0.10       | 0.00       | 9.88        | 0.00       | 47.39 | 56.19      | -8.80      | QP      |
| 5  | 0.541 | 33.19      | -0.10       | 0.00       | 9.88        | 0.00       | 42.97 | 56.00      | -13.03     | QP      |
| 6  | 0.549 | 25.16      | -0.10       | 0.00       | 9.88        | 0.00       | 34.94 | 46.00      | -11.06     | Average |
| 7  | 0.948 | 23.46      | -0.10       | 0.00       | 9.88        | 0.00       | 33.24 | 46.00      | -12.76     | Average |
| 8  | 1.100 | 31.54      | -0.11       | 0.00       | 9.88        | 0.00       | 41.31 | 56.00      | -14.69     | QP      |
| 9  | 1.403 | 19.54      | -0.15       | 0.00       | 9.88        | 0.00       | 29.27 | 46.00      | -16.73     | Average |
| 10 | 1.762 | 21.16      | -0.18       | 0.00       | 9.88        | 0.00       | 30.86 | 46.00      | -15.14     | Average |
| 11 | 1.800 | 30.95      | -0.18       | 0.00       | 9.88        | 0.00       | 40.65 | 56.00      | -15.35     | QP      |
| 12 | 6.698 | 37.30      | -0.39       | 0.00       | 9.90        | 0.00       | 46.81 | 60.00      | -13.19     | QP      |

### Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

## 7.3 Emission Bandwidth

### 7.3.1 Standard Applicable

According to FCC part 15.323(a)

### 7.3.2 Test Procedure

According to ANSI 63.17 clause 6.1.3

### 7.3.3 Limits

The 26 dB Bandwidth B shall be larger than 50 kHz and less than 2.5 MHz

### 7.3.4 Results

Meet the requirements

### 7.3.5 Measurement Data

| Test CH | Emission Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit              | Result |
|---------|--------------------------|------------------------------|--------------------|--------|
| Lowest  | 1.241                    | 1.1697                       | 50 kHz <EB<2.5 MHz | Pass   |
| Middle  | 1.249                    | 1.1710                       |                    |        |
| Highest | 1.241                    | 1.1700                       |                    |        |

Test plot as follows:



Lowest channel



Middle channel



Highest channel



## 7.4 Peak transmit power

### 7.4.1 Standard Applicable

According to FCC part 15.319(c) (e)

### 7.4.2 Test Procedure

According to ANSI 63.17 clause 6.1.2

### 7.4.3 Limits

Conducted:  $100 \mu W \times \text{SQRT}(B)$  where  $B$  is the measured Emission Bandwidth in Hz

FCC 15.319(c)(e): 20.8dBm (121.34)

The antenna gain is below 0 dBi, no reduction in transmit power is necessary.

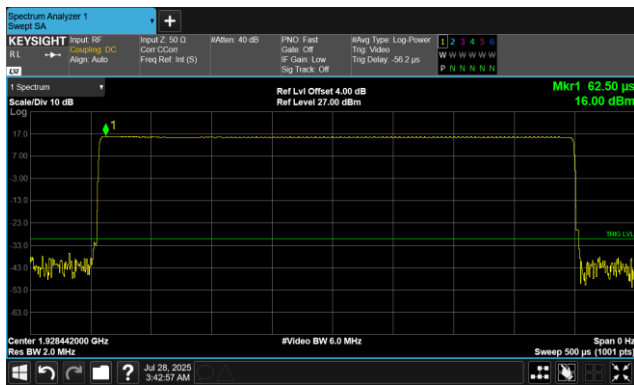
### 7.4.4 Results

Meet the requirements

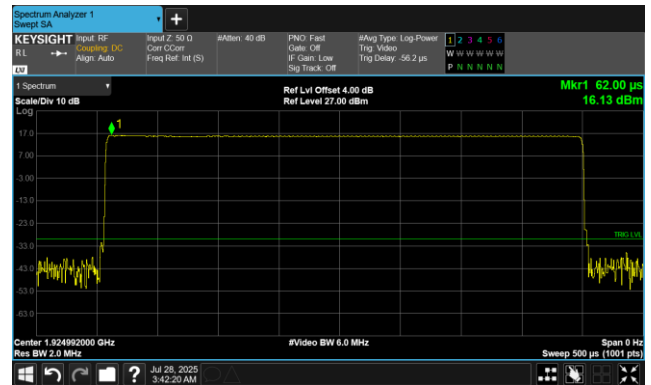
### 7.4.5 Measurement Data

| Test CH | Peak transmit power (dBm) | Limit(dBm) | Result |
|---------|---------------------------|------------|--------|
| Lowest  | 16.00                     | 20.8       | Pass   |
| Middle  | 16.13                     |            |        |
| Highest | 16.25                     |            |        |

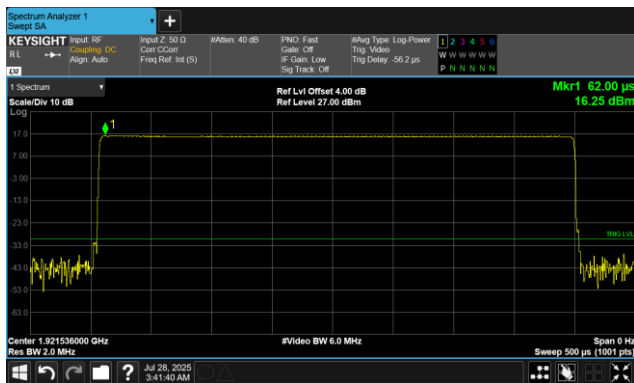
Test plot as follows:



Lowest channel



Middle channel



Highest channel

## 7.5 Power spectral density

### 7.5.1 Standard Applicable

According to FCC part 15.319(d)

### 7.5.2 Test Procedure

According to ANSI 63.17 clause 6.1.5

### 7.5.3 Limits

The Power Spectral Density shall be less than 3 mW (4.77 dBm) when averaged over at least 100 sweeps.

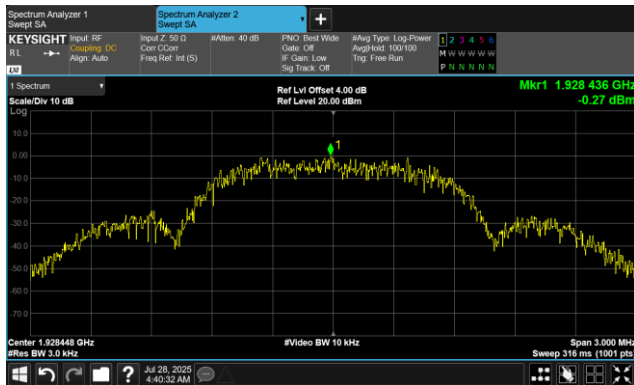
### 7.5.4 Results

Meet the requirements

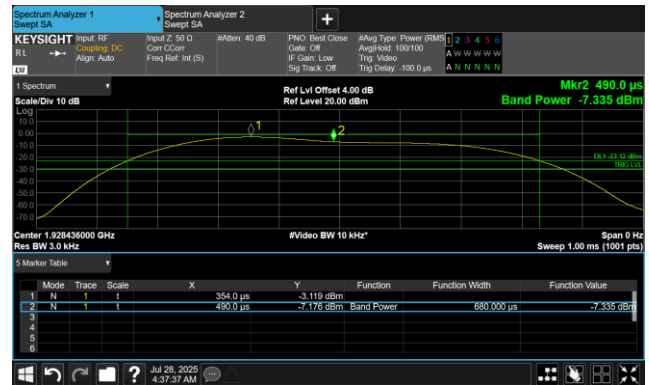
### 7.5.5 Measurement Data

| Test CH | Power spectral density (dBm) | Limit(dBm) | Result |
|---------|------------------------------|------------|--------|
| Lowest  | -7.34                        | 4.77       | Pass   |
| Middle  | -8.73                        |            |        |
| Highest | -7.46                        |            |        |

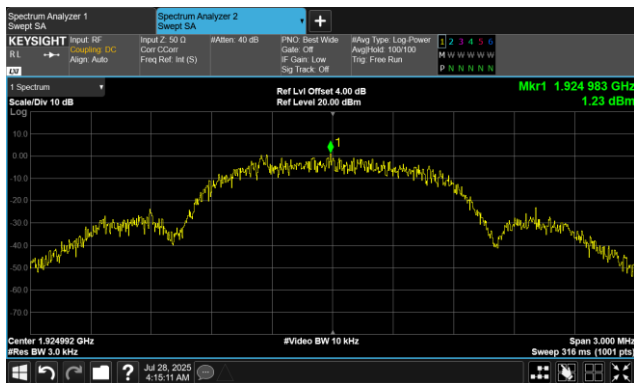
Test plot as follows:



Lowest channel



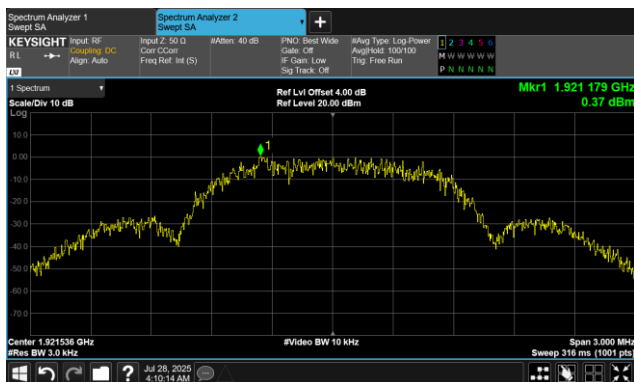
Lowest channel



Middle channel



Middle channel



Highest channel



Highest channel

## **7.6 In-band and Out-of-band emissions**

### **7.6.1 Standard Applicable**

According to FCC part 15.323(d)

### **7.6.2 Test Procedure**

According to ANSI 63.17 clause 6.1.6

### **7.6.3 Limits**

In-Band Emissions:

$B < f \leq 2B$ : at least 30 dB below max. permitted peak power

$2B < f \leq 3B$ : at least 50 dB below max. permitted peak power

$3B < f \leq$  UPCS Band Edge: at least 60 dB below max. permitted peak power

Out-of-Band Emissions:

$f \leq 1.25\text{MHz}$  outside UPCS band:  $\leq -9.5\text{dBm}$

$1.25\text{MHz} \leq f \leq 2.5\text{MHz}$  outside UPCS band:  $\leq -29.5\text{ dBm}$

$f \geq 2.5\text{MHz}$  outside UPCS band:  $\leq -39.5\text{ dBm}$

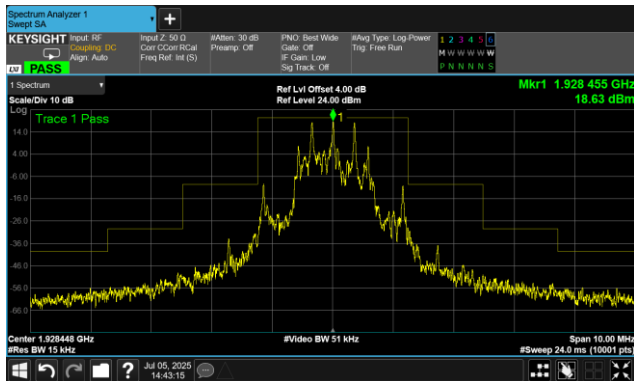
### **7.6.4 Test Result**

Meet the requirements

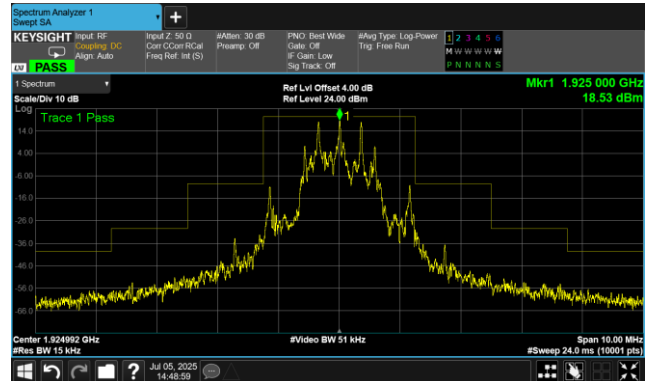
### **7.6.5 Measurement Data**

See plots as below

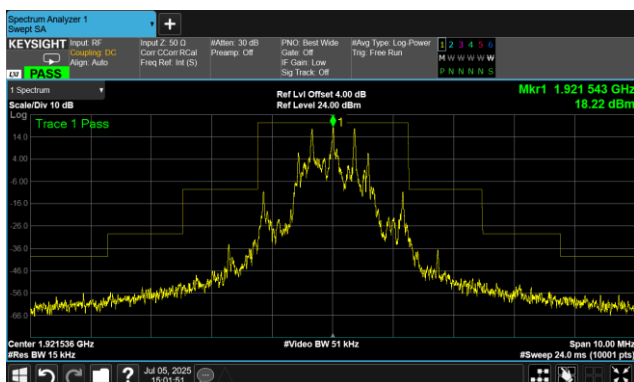
## In-band emissions



Lowest channel



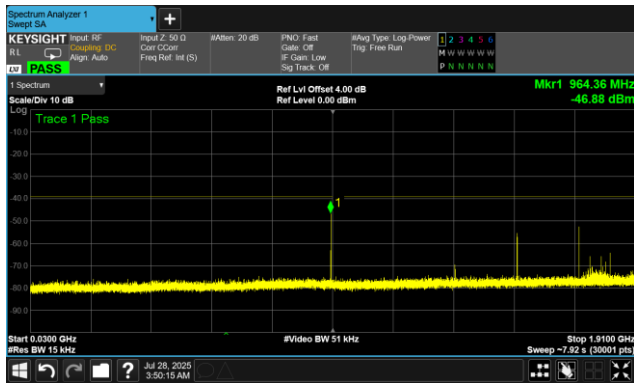
Middle channel



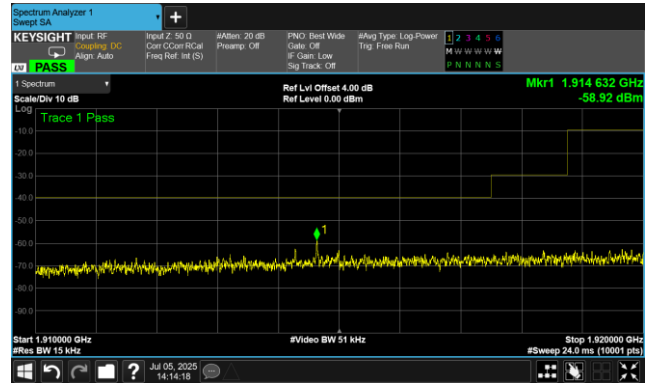
Highest channel

## Out-of-band emissions

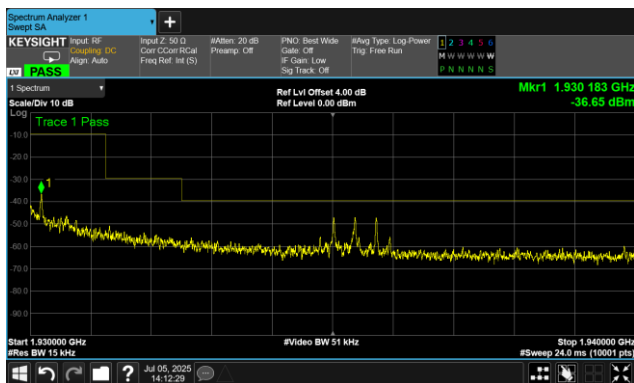
### Lowest Channel



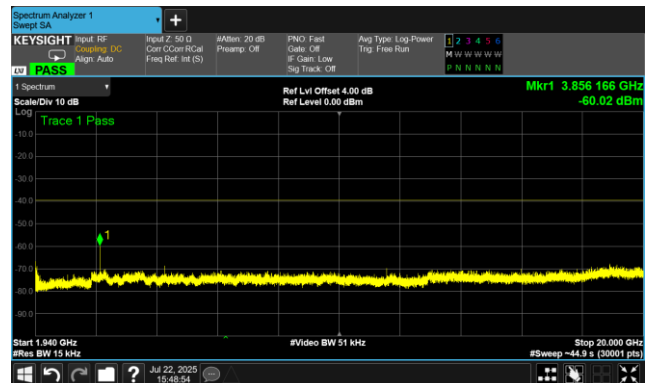
30MHz-1915MHz



1915MHz-1920MHz



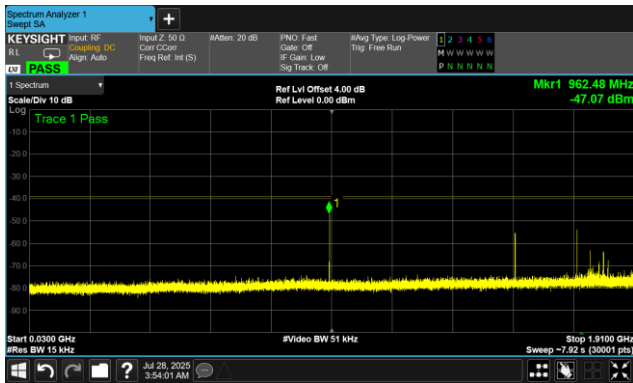
1930MHz-1940MHz



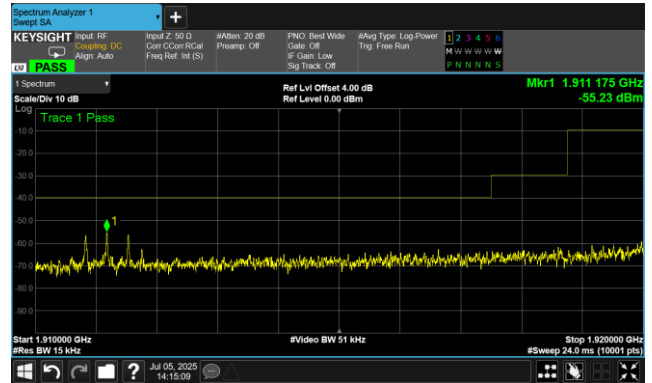
1940MHz-20GHz

## Out-of-band emissions

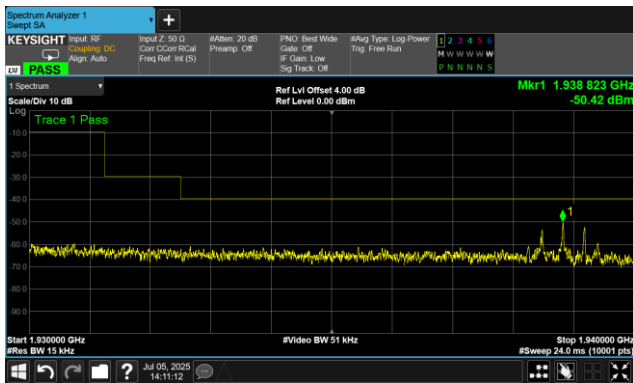
### Middle Channel



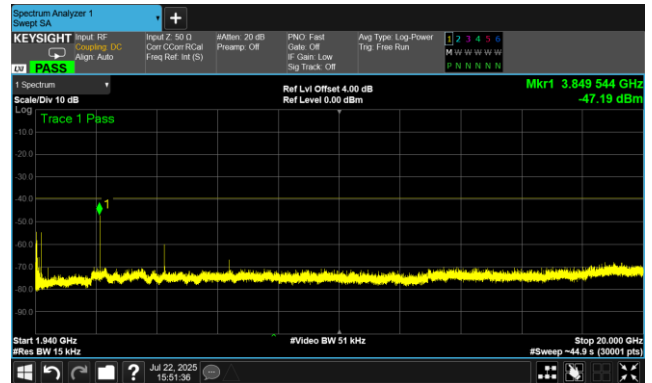
30MHz-1915MHz



1915MHz-1920MHz



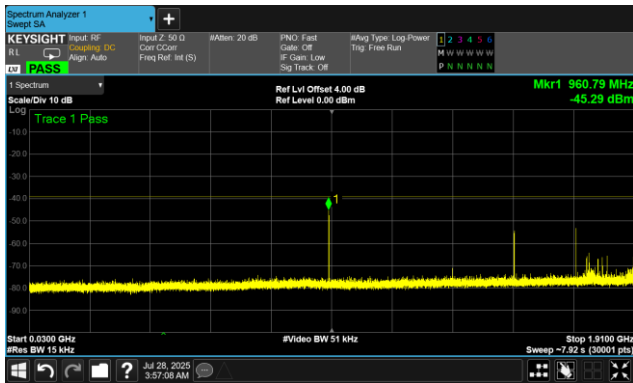
1930MHz-1940MHz



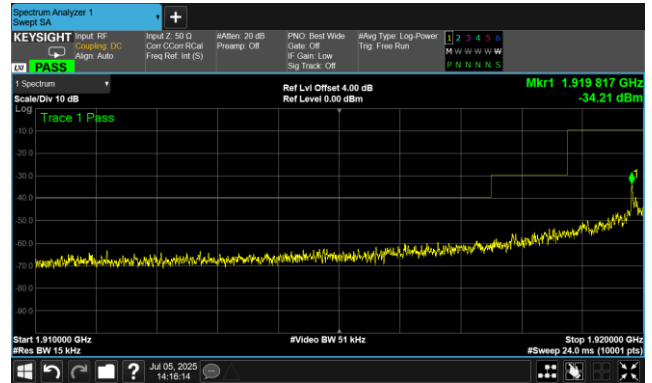
1940MHz-20GHz



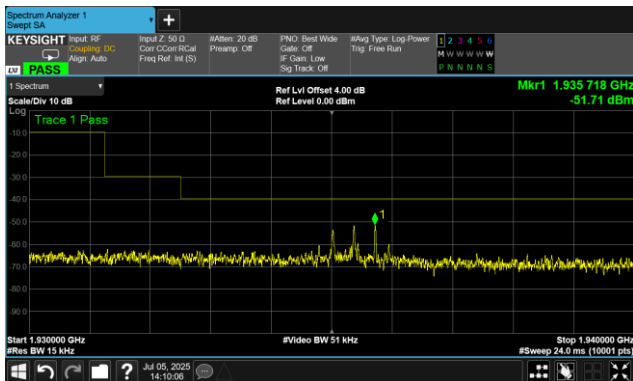
## Out-of-band emissions Highest Channel



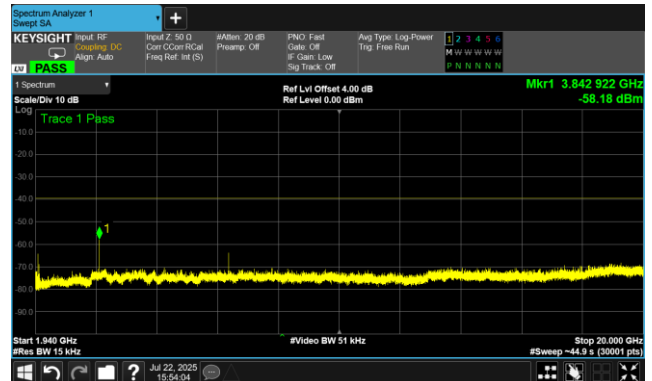
30MHz-1915MHz



1915MHz-1920MHz



1930MHz-1940MHz



1940MHz-20GHz

## 7.7 Carrier Frequency Stability

### 7.7.1 Standard Applicable

According to FCC part 15.323(f)  
Test Procedure  
According to ANSI 63.17 clause 6.2.1

### 7.7.2 Limits

±10 ppm

### 7.7.3 Test Result

Meet the requirements

### 7.7.4 Measurement Data

#### Frequency Stability over Power Supply Voltage at Nominal Temperature

| Voltage           | Channel Frequency | Difference | Deviation | Limits  |
|-------------------|-------------------|------------|-----------|---------|
| $V_{nom}$         | 1924.992          | /          | /         | ±10 ppm |
| 85% of $V_{nom}$  | 1924.992          | /          | /         |         |
| 115% of $V_{nom}$ | 1924.992          | /          | /         |         |

Note:

Deviation ppm = ((Mean – Measured Frequency) / Mean) × 10<sup>6</sup>

This test does not apply to an EUT that is capable only of operating from a battery.

#### Frequency Stability over Temperature

| Temp. | Channel Frequency | Difference | Deviation | Limits  |
|-------|-------------------|------------|-----------|---------|
| +20°C | 1924.992          | -10 kHz    | -5.2      | ±10 ppm |
| -10°C | 1924.992          | -4.5 kHz   | -2.3      |         |
| +55°C | 1924.992          | -7.4 kHz   | -3.8      |         |

Note:

Deviation ppm = ((Mean – Measured Frequency) / Mean) × 10<sup>6</sup>

## 7.8 Frame repetition Stability, period and jitter

### 7.8.1 Standard Applicable

According to FCC part 15.323(e)  
Test Procedure  
According to ANSI 63.17 clause 6.2.2

### 7.8.2 Limits

±10 ppm for Frame Repetition Stability, 20 or 10 ms for frame period, 25μs for max jitter.

### 7.8.3 Test Result

Meet the requirements

### 7.8.4 Measurement Data

| Carrier Frequency<br>(MHz) | Frame repetition<br>(ppm) | Frame period<br>(ms) | Max. jitter<br>(μs) |
|----------------------------|---------------------------|----------------------|---------------------|
| 1924.448                   | 1.99                      | 10                   | -0.22               |

## 7.9 Automatically discontinue transmission

### 7.9.1 Standard Applicable

According to FCC part 15.319(f)

Requirements

The device shall automatically discontinue transmission in case of either absence of information to transmitter operational failure. The provisions in this section are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

### 7.9.2 Results

Meet the requirements

### 7.9.3 Measurement Data

The EUT is a initiating device, and cannot transmits control and signaling information.

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

| Number | Test                                | EUT Reaction | Verdict |
|--------|-------------------------------------|--------------|---------|
| 1      | Power removed from EUT              | C            | Pass    |
| 2      | Switch off EUT                      | C            | Pass    |
| 3      | Hook-on by EUT                      | C            | Pass    |
| 4      | Power removed from companion device | A            | Pass    |
| 5      | Switch off companion device         | N/A          | Pass    |
| 6      | Hook-on by companion device         | N/A          | Pass    |

A - Connection breakdown, cease of all transmissions

B - Connection breakdown, EUT transmits control and signaling information

C - Connection breakdown, companion device transmits control and signaling information

N/A - Not Applicable (Companion device does not have On/ Off switch and cannot perform Hook-on)

## 7.10 Specific requirements for devices operating in the 1920-1930MHz sub-band

### 7.10.1 Monitoring time

#### Standard Applicable

According to FCC part 15.323(c)(1)

#### Requirement

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum window in which they intend to transmit for a period of at least 10 milliseconds for systems designed to use a 10 milliseconds or shorter frame period or at least 20 milliseconds for systems designed to use a 20 milliseconds frame period.

#### Test Procedure

According to ANSI 63.17 clause 7.3.4

#### Result

Meet the requirements

#### Measurement Data

EUT monitors the combined time and spectrum window prior to initiation of transmission. The observation results as below

| Channel Selection                                                                                                                                                                                                                                  | Observation result        | Verdict |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------|
| 1. Apply the interference on $f_1$ at level $T_U + U_M$ , and no interference on $f_2$ . Initiate transmission and verify the transmission on $f_2$ .                                                                                              | EUT transmission on $f_2$ | Pass    |
| 2. Apply interference on $f_2$ at a level of $TU + UM$ , in-band, and immediately remove all interference from $f_1$ and immediately (but not sooner than 20 ms after the interference on $f_2$ is applied) cause the EUT to attempt transmission. | EUT transmission on $f_1$ | Pass    |

## 7.10.2 Monitoring Threshold, Lease Interfered Channel

### Standard Applicable

According to FCC part 15.323(c)(2)(5)

### Requirement

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth used by the device.

If access to spectrum is not available as determined by the above, and a minimum of 40 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level below a monitoring threshold of 50 dB above the thermal noise power determined for the emission bandwidth may be accessed.

### Test procedure

Measurement method according to ANSI C63.17 clause 7.3.1, 7.3.2, 7.3.3 and 7.3.4

### Test result

Meet the requirements

### Measurement Data

Lower threshold:  $TL = -174 + 10\log_{10}B + M_U + P_{MAX} - P_{EUT}$  (dBm)

Upper threshold:  $TU = -174 + 10\log_{10}B + M_U + P_{MAX} - P_{EUT}$  (dBm)

Where: B=Emission bandwidth (Hz)

$M_U$ =dB the threshold may exceed thermal noise (30 for TL & 50 for TU)

### Calculated values

| Threshold       | FCC part 15D |
|-----------------|--------------|
| Lower threshold | N/A          |
| Upper threshold | N/A          |

The Lower Threshold is applicable for systems which have defined less than 40 duplex system access channels. The Upper Threshold is applicable for systems with more than 40 duplex system access channels and that implements the Least Interfered Channel Procedure (LIC).

Upper Threshold has been removed from FCC 15D but still exists in the current Industry Canada RSS-213.

### Limit

| Threshold              | FCC part 15D |
|------------------------|--------------|
| Lower threshold + 6 dB | N/A          |
| Upper threshold + 6 dB | N/A          |

The Upper or Lower Threshold is found by the procedure defined in ANSI C63.17 clause 7.3.1 or 7.3.2.

| Monitor Threshold | Measured level | FCC part 15D |
|-------------------|----------------|--------------|
| Lower threshold   | N/A            | N/A          |
| Upper threshold   | N/A            | N/A          |

For the EUT which support LIC there is no need to measure lower threshold because it is automatically met by LIC procedure

### Least Interfered Channel (LIC) Procedure Test, FCC 15.323(c)(2) and (c)(5)

| ANSI C63.17 clause 7.3.3 ref.                 | Observation                  | Verdict |
|-----------------------------------------------|------------------------------|---------|
| b) $f_1$ $T_L + 13$ dB, $f_2$ at $T_L + 6$ dB | Transmission always on $f_2$ | Pass    |
| c) $f_1$ $T_L + 6$ dB, $f_2$ at $T_L + 13$ dB | Transmission always on $f_1$ | Pass    |
| d) $f_1$ $T_L + 7$ dB, $f_2$ at $T_L$         | Transmission always on $f_1$ | Pass    |
| e) $f_1$ $T_L$ , $f_2$ at $T_L + 7$ dB        | Transmission always on $f_1$ | Pass    |

## 7.10.3 Monitoring Threshold Bandwidth

### Standard Applicable

According to FCC part 15.323(c)(7)

### Requirement

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission.

### Test procedure

Measurement method according to ANSI C63.17 clause 7.4

### Test result

Meet the requirements

### Measurement Data

This test is only required if a dedicated monitoring receiver is used. However, if the test is not carried out the manufacturer shall declare and provide proper evidence that the monitoring is made through the radioreceiver used for communication.

| Test performed                               | Observation      | Verdict |
|----------------------------------------------|------------------|---------|
| Simple Compliance test, at $\pm 30\%$ of $B$ | No transmissions | Pass    |
| More Detailed Test, at -6 dB points          | N/A              | N/A     |
| More Detailed Test, at -12 dB points         | N/A              | N/A     |

### Notes:

1. The more detailed test must be pass at both the -6 and -12 dB points if the Simple Compliance test fails.
2. The Simple Compliance Test was performed with the level at  $T_U + U_M + 10$  dB to check that the EUT did not transmit at all.
3. The tested EUT uses the same receiver for monitoring and communication, this test is therefore not required. However the test has been performed nonetheless and the test is passed.

## 7.10.4 Reaction Time and Monitoring Interval

### Standard Applicable

According to FCC part 15.323(c)(1)(5)(7)

### Requirement

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission and have a maximum reaction time less than  $50 \times \text{SQRT}(1.25/\text{emission bandwidth in MHz})$  microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microseconds.

If a signal is detected that is 6 dB or more above the applicable threshold level, the maximum reaction time shall be  $35 \times \text{SQRT}(1.25/\text{emission bandwidth in MHz})$  microseconds but shall not be required to be less than 35 microseconds.

### Test procedure

Measurement method according to ANSI C63.17 clause 7.5

### Test result

Meet the requirements

### Measurement Data

By administrative commands and out-of-operating region interference, the EUT is restricted to operate on a single carrier frequency.

Time-synchronized pulsed interference was then applied on the carrier at pulsed levels  $T_U + U_M$  to check that the EUT does not transmit at all. The level was raised 6 dB for part d) with 35  $\mu\text{s}$  pulses.

The pulses are synchronized with the EUT timeslots and applied centered within all timeslots.

| Pulse Width, ref. to ANSI C63.17 clause 7.5                                                                    | Observation      | Verdict |
|----------------------------------------------------------------------------------------------------------------|------------------|---------|
| c) > largest of 50 $\mu\text{s}$ and $50 \times \text{SQRT}(1.25/B)$                                           | No transmissions | Pass    |
| d) > largest of 35 $\mu\text{s}$ and $35 \times \text{SQRT}(1.25/B)$ , and with interference level raised 6 dB | No transmissions | Pass    |

### Notes:

Since  $B$  is larger than 1.25 MHz the test was performed with pulse lengths of 50  $\mu\text{s}$  and 35  $\mu\text{s}$ .



## 7.10.5 Time and Spectrum Window Access Procedure

### Standard Applicable

According to FCC part 15.323(c)(4)(6)

### Requirement

#### FCC 15.323(c)(4):

Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgements must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgement, at which time the access criteria must be repeated.

#### FCC 15.323(c)(6):

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same windows after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available

### Test procedure

Measurement method according to ANSI C63.17 clause 8.1

### Test result

Meet the requirements

### Measurement Data

This requirement is only for EUTs which transmit unacknowledged control and signaling information.

| Access Criteria, ref. to ANSI C63.17 clause 8.1.1                                                                                                                                            | Observation | Verdict |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|
| b) Check that the EUT transmits on the interference free time-slot                                                                                                                           | N/A         | N/A     |
| b) The EUT must terminate or pause in its repetitive transmission of the control and signaling channel on the open channel to repeat the access criteria not less frequently than every 30 s | N/A         | N/A     |

If FCC 15.323(c)(6) option, **If Random Waiting Interval is NOT implemented**

| Access Criteria, ref. to ANSI C63.17 clause 8.1.1                                                                  | Observation | Verdict |
|--------------------------------------------------------------------------------------------------------------------|-------------|---------|
| b) Check that the EUT changes to an interference-free slot when interference is introduced on the time slot in use | N/A         | N/A     |

If FCC 15.323(c)(6) option, **Only if Random Waiting Interval is implemented**

| Access Criteria, ref. to ANSI C63.17 clause 8.1.1                                                              | Observation | Verdict |
|----------------------------------------------------------------------------------------------------------------|-------------|---------|
| b-d) Check that the EUT uses random waiting interval before continuing transmission on an interfered time slot | N/A         | N/A     |

### Notes:

The tested EUT does not transmit unacknowledged control and signaling information.

## 7.10.6 Acknowledgements and Transmission Duration

### Standard Applicable

According to FCC part 15.323(c)(3)(4)

### Requirement

Occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.

Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease.

Periodic acknowledgements must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgement, at which time the access criteria must be repeated.

### Test procedure

Measurement method according to ANSI C63.17 clause 8.2

### Test result

Meet the requirements

### Measurement Data

During the test **Initial transmission without acknowledgements** the signal from the EUT to the companion device is blocked by circulators in addition to the tunable attenuator.

The test **Transmission time after loss of acknowledgements** is performed by cutting-off the signal from the companion device by a RF switch and measuring the time until the EUT stops transmitting.

The **Transmission Duration** test is performed by monitoring the slot in use and measuring the time until the EUT changes to a different slot.

### Acknowledgements

| Test ref. to ANSI C63.17 clause 8.2.1               | Observation | Verdict |
|-----------------------------------------------------|-------------|---------|
| a) Initial transmission without acknowledgements    | 0.52s       | Pass    |
| c) Transmission time after loss of acknowledgements | 8s          | Pass    |

### Transmission Duration

| Test ref. to ANSI C63.17 clause 8.2.2                      | Observation | Verdict |
|------------------------------------------------------------|-------------|---------|
| b) Transmission duration on same time and frequency window | 1.0 hour    | Pass    |

**7.10.7 Dual Access Criteria Check****Standard Applicable**

According to FCC part 15.323(c)(10)

**Requirement**

An initiating device may attempt to establish a duplex connection by monitoring both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

**Test procedure**

Measurement method according to ANSI C63.17 clause 8.3

**Test result**

Not tested. The manufacturer declares that this provision is not utilized by the EUT.

**7.10.8 Alternative Monitoring Interval****Standard Applicable**

According to FCC part 15.323(c)(11)

**Requirement**

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 millisecond frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or co-located co-operating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

**Test procedure**

Measurement method according to ANSI C63.17 clause 8.4

**Test result**

Not tested. The manufacturer declares that this provision is not utilized by the EUT.

**7.10.9 Fair Access****Standard Applicable**

According to FCC part 15.323(c)(12)

**Requirement**

The provisions of (c)(10) or (c)(11) shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

**Test result**

The manufacturer declares that this device does not use any mechanisms as provided by Part 15.323 (c) (10) or (c) (11) to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other device.

-----End of report-----