



# Shenzhen HTT Technology Co., Ltd.

## FCC PART 15 SUBPART C TEST REPORT

### FCC PART 15.239

Report Reference No.....: HTT2025071127F03

FCC ID.....: 2ADMQ-24680

Compiled by  
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Date of issue.....: Aug. 19, 2025

Testing Laboratory Name .....: Shenzhen HTT Technology Co.,Ltd.

Address.....: 1F, Building B, Huafeng International Robotics Industrial Park,  
Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an  
District, Shenzhen, Guangdong, China

Applicant's name.....: CUSTOM ACCESSORIES INC

Address ..... 5900 AMI DRIVE,RICHMOND, IL 60071, United States.

Test specification .....

Standard .....: FCC Part 15.239

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Equipment description.....: Bluetooth FM Transmitter

Trade Mark .....: N/A

Manufacturer .....: Aoedi Technology (Huizhou) Co., Ltd.

Model/Type reference.....: 24680

Listed Models .....: N/A

Modulation .....: GFSK

Frequency.....: 88.1MHz~107.9MHz

Ratings .....: DC 12-24V

Result.....: PASS

Heber He

Bruce Zhu

Kevin Yang



**TEST REPORT**

Equipment under Test : Bluetooth FM Transmitter

Model /Type : 24680

Listed Models : N/A

**Applicant** : CUSTOM ACCESSORIES INC

Address : 5900 AMI DRIVE,RICHMOND, IL 60071, United States.

**Manufacturer** : Aoedi Technology (Huizhou) Co., Ltd.

Address : The 2nd and 5th floor of the factory building in the Hanyabei area of Ganpi Village, Zhenlong Town, Huiyang District, Huizhou City

|                     |             |
|---------------------|-------------|
| <b>Test Result:</b> | <b>PASS</b> |
|---------------------|-------------|

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Contents

|                 |                                                     |                  |
|-----------------|-----------------------------------------------------|------------------|
| <b><u>1</u></b> | <b><u>TEST STANDARDS .....</u></b>                  | <b><u>4</u></b>  |
| <b><u>2</u></b> | <b><u>SUMMARY .....</u></b>                         | <b><u>5</u></b>  |
| 2.1             | General Remarks                                     | 5                |
| 2.2             | Product Description                                 | 5                |
| 2.3             | Equipment Under Test                                | 5                |
| 2.4             | Short description of the Equipment under Test (EUT) | 5                |
| 2.5             | EUT operation mode                                  | 6                |
| 2.6             | Block Diagram of Test Setup                         | 6                |
| 2.7             | Related Submittal(s) / Grant (s)                    | 6                |
| 2.8             | Modifications                                       | 6                |
| <b><u>3</u></b> | <b><u>TEST ENVIRONMENT .....</u></b>                | <b><u>7</u></b>  |
| 3.1             | Address of the test laboratory                      | 7                |
| 3.2             | Test Facility                                       | 7                |
| 3.3             | Environmental conditions                            | 7                |
| 3.4             | Summary of measurement results                      | 8                |
| 3.5             | Statement of the measurement uncertainty            | 8                |
| 3.6             | Equipments Used during the Test                     | 9                |
| <b><u>4</u></b> | <b><u>TEST CONDITIONS AND RESULTS .....</u></b>     | <b><u>10</u></b> |
| 4.1             | AC Power Conducted Emission                         | 10               |
| 4.2             | RADIATED MEASUREMENT                                | 11               |
| 4.3             | 99% AND 20DB BANDWIDTH                              | 20               |
| 4.4             | Antenna Requirement                                 | 22               |
| <b><u>5</u></b> | <b><u>TEST SETUP PHOTOS OF THE EUT .....</u></b>    | <b><u>23</u></b> |
| <b><u>6</u></b> | <b><u>PHOTOS OF THE EUT .....</u></b>               | <b><u>23</u></b> |

# **1 TEST STANDARDS**

The tests were performed according to following standards:

[FCC Rules Part 15.239](#): Operation in the band 88-108 MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 V05r02](#): Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247

## 2 SUMMARY

### 2.1 General Remarks

|                                |   |               |
|--------------------------------|---|---------------|
| Date of receipt of test sample | : | Jul. 30, 2025 |
| Testing commenced on           | : | Jul. 30, 2025 |
| Testing concluded on           | : | Aug. 19, 2025 |

### 2.2 Product Description

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Product Description:  | Bluetooth FM Transmitter                                                                      |
| Model/Type reference: | 24680                                                                                         |
| Power supply:         | DC 12-24V                                                                                     |
| Testing sample ID:    | HTT2025071127-1# (Engineer sample)<br>HTT2025071127-2# (Normal sample)                        |
| <b>FM</b>             |                                                                                               |
| Modulation:           | FM                                                                                            |
| Operation frequency:  | 88.1MHz~107.9MHz                                                                              |
| Channel number:       | 199                                                                                           |
| Channel separation:   | 100KHz                                                                                        |
| Channel frequency     | 88.1MHz~107.9MHz(Channel Number: 199,<br>Channel Frequency=88.1+0.1(K-1), K=1, 2, 3 .....199) |
| Antenna type:         | Internal antenna                                                                              |
| Antenna gain:         | 0.00 dBi                                                                                      |

### 2.3 Equipment Under Test

#### Power supply system utilised

|                      |   |                                                        |                                   |
|----------------------|---|--------------------------------------------------------|-----------------------------------|
| Power supply voltage | : | <input type="radio"/> 230V / 50 Hz                     | <input type="radio"/> 120V / 60Hz |
|                      |   | <input checked="" type="radio"/> 12 V DC               | <input type="radio"/> 24 V DC     |
|                      |   | <input type="radio"/> Other (specified in blank below) |                                   |

/

### 2.4 Short description of the Equipment under Test (EUT)

This is a Bluetooth FM Transmitter.

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

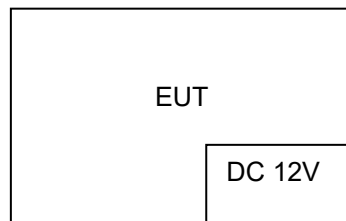
## 2.5 EUT operation mode

The Applicant provides communication tools software(Engineer mode) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 199 channels provided to the EUT and Channel Low/Mid/High were selected to test.

### Operation Frequency:

| Channel     | Frequency (MHz) |
|-------------|-----------------|
| <b>Low</b>  | <b>88.1</b>     |
| <b>Mid</b>  | <b>98.1</b>     |
| <b>High</b> | <b>107.9</b>    |

## 2.6 Block Diagram of Test Setup



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

This submittal(s) (test report) is intended for the device filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.8 Modifications

No modifications were implemented to meet testing criteria.

### 3 TEST ENVIRONMENT

#### 3.1 Address of the test laboratory

**Shenzhen HTT Technology Co.,Ltd.**

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao' an District, Shenzhen, China

#### 3.2 Test Facility

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

**FCC-Registration No.: 779513 Designation Number: CN1319**

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

**A2LA-Lab Cert. No.: 6435.01**

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

#### 3.3 Environmental conditions

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

Radiated Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 23 ° C       |
|                       |              |
| Humidity:             | 44 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 24 ° C       |
|                       |              |
| Humidity:             | 46 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

### 3.4 Summary of measurement results

| Applied Standard: FCC CFR 47 PART 15.239 |                                         |           |
|------------------------------------------|-----------------------------------------|-----------|
| FCC Rules                                | Description of Test                     | Result    |
| §15.239 (a)                              | Occupied Bandwidth                      | Compliant |
| §15.239 (b)                              | Field Strength of Fundamental frequency | Compliant |
| §15.205 (a)<br>§15.209 (a)               | Radiated Spurious Emissions             | Compliant |
| §15.207 (a)                              | AC Conducted Emissions                  | N/A       |
| §15.203                                  | Antenna Requirements                    | Compliant |

Remark:

1. The measurement uncertainty is not included in the test result.
2. We tested all test mode and recorded worst case in report

### 3.5 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen HTT 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 Shenzhen HTT Technology Co.,Ltd.:

| Test Item             | Frequency Range | Measurement Uncertainty | Notes |
|-----------------------|-----------------|-------------------------|-------|
| Radiated Emission     | 9KHz~30MHz      | 3.12 dB                 | (1)   |
| Radiated Emission     | 30~1000MHz      | 4.37 dB                 | (1)   |
| Radiated Emission     | 1~18GHz         | 5.40 dB                 | (1)   |
| Radiated Emission     | 18-40GHz        | 5.45 dB                 | (1)   |
| Conducted Disturbance | 0.15~30MHz      | 2.68 dB                 | (1)   |
| Spectrum bandwidth    | /               | 1.2%                    | (1)   |
| Output Peak power     | 30MHz~18GHz     | 0.57dB                  | (1)   |
| Time                  | /               | ± 10%                   | (1)   |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

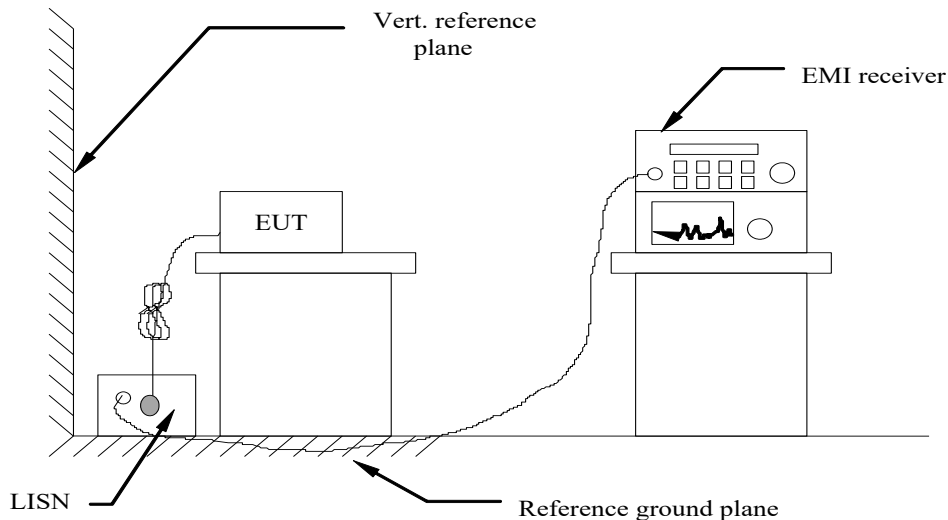
### 3.6 Equipments Used during the Test

| Item | Test Equipment                   | Manufacturer                        | Model No.          | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
|------|----------------------------------|-------------------------------------|--------------------|---------------|---------------------|-------------------------|
| 1    | 3m Semi- Anechoic Chamber        | Shenzhen C.R.T technology co., LTD  | 9*6*6              | HTT-E028      | Aug. 10 2024        | Aug. 09 2027            |
| 2    | Control Room                     | Shenzhen C.R.T technology co., LTD  | 4.8*3.5*3.0        | HTT-E030      | Aug. 10 2024        | Aug. 09 2027            |
| 3    | EMI Test Receiver                | Rohde&Schwarz                       | ESCI7              | HTT-E022      | Apr. 22 2025        | Apr. 21 2026            |
| 4    | Spectrum Analyzer                | ROHDE&SCHWARZ                       | FSV40-N            | HTT-E050      | Jun. 09 2025        | Jun. 08 2026            |
| 5    | Coaxial Cable                    | ZDecl                               | ZT26-NJ-NJ-0.6M    | HTT-E018      | Apr. 22 2025        | Apr. 21 2026            |
| 6    | Coaxial Cable                    | ZDecl                               | ZT26-NJ-SMAJ-2M    | HTT-E019      | Apr. 22 2025        | Apr. 21 2026            |
| 7    | Coaxial Cable                    | ZDecl                               | ZT26-NJ-SMAJ-0.6M  | HTT-E020      | Apr. 22 2025        | Apr. 21 2026            |
| 8    | Coaxial Cable                    | ZDecl                               | ZT26-NJ-SMAJ-8.5M  | HTT-E021      | Apr. 22 2025        | Apr. 21 2026            |
| 9    | Composite logarithmic antenna    | Schwarzbeck                         | VULB 9168          | HTT-E017      | Apr. 19 2025        | Apr. 18 2026            |
| 10   | Horn Antenna                     | Schwarzbeck                         | BBHA9120D          | HTT-E016      | Apr. 19 2025        | Apr. 18 2026            |
| 11   | Loop Antenna                     | Zhinan                              | ZN30900C           | HTT-E039      | Apr. 19 2025        | Apr. 18 2026            |
| 12   | Horn Antenna                     | A.H. Systems, inc.                  | SAS-574            | HTT-E040      | Jun. 04 2025        | Jun. 03 2026            |
| 13   | low frequency Amplifier          | Sonoma Instrument                   | 310                | HTT-E015      | Apr. 22 2025        | Apr. 21 2026            |
| 14   | high-frequency Amplifier         | HP                                  | 8449B              | HTT-E014      | Apr. 22 2025        | Apr. 21 2026            |
| 15   | Variable frequency power supply  | Shenzhen Anbiao Instrument Co., Ltd | ANB-10VA           | HTT-082       | Apr. 22 2025        | Apr. 21 2026            |
| 16   | EMI Test Receiver                | Rohde & Schwarz                     | ESCI3              | HTT-E043      | Apr. 22 2025        | Apr. 21 2026            |
| 17   | Artificial Mains                 | Rohde & Schwarz                     | ESH3-Z5            | HTT-E006      | Apr. 22 2025        | Apr. 21 2026            |
| 18   | Artificial Mains                 | Rohde & Schwarz                     | ENV-216            | HTT-E038      | Apr. 22 2025        | Apr. 21 2026            |
| 19   | Cable Line                       | Robinson                            | Z302S-NJ-BNCJ-1.5M | HTT-E001      | Apr. 22 2025        | Apr. 21 2026            |
| 20   | Filter                           | ROHDE&SCHWARZ                       | ESH3-Z2            | HTT-E045      | Sep. 20 2024        | Sep. 19 2025            |
| 21   | Variable frequency power supply  | Shenzhen Yanghong Electric Co., Ltd | YF-650 (5KVA)      | HTT-E032      | Apr. 22 2025        | Apr. 21 2026            |
| 22   | Control Room                     | Shenzhen C.R.T technology co., LTD  | 8*4*3.5            | HTT-E029      | Aug. 10 2024        | Aug. 09 2027            |
| 23   | DC power supply                  | Agilent                             | E3632A             | HTT-E023      | Apr. 22 2025        | Apr. 21 2026            |
| 24   | EMI Test Receiver                | Agilent                             | N9020A             | HTT-E024      | Apr. 22 2025        | Apr. 21 2026            |
| 25   | Analog signal generator          | Agilent                             | N5181A             | HTT-E025      | Apr. 22 2025        | Apr. 21 2026            |
| 26   | Vector signal generator          | Agilent                             | N5182A             | HTT-E026      | Apr. 22 2025        | Apr. 21 2026            |
| 27   | RF Switch box                    | Keysight                            | Switchbox          | HTT-E047      | Sep. 20 2024        | Sep. 19 2025            |
| 28   | Temperature and humidity meter   | Shenzhen Anbiao Instrument Co., Ltd | TH10R              | HTT-074       | Apr. 21 2025        | Apr. 20 2026            |
| 29   | Radiated Emission Test Software  | Farad                               | EZ-EMC             | N/A           | N/A                 | N/A                     |
| 30   | Conducted Emission Test Software | Farad                               | EZ-EMC             | N/A           | N/A                 | N/A                     |
| 31   | RF Test Software                 | panshanrf                           | TST                | N/A           | N/A                 | N/A                     |
| 32   | Power Meter                      | R&S                                 | NRVS               | HTT-E057      | Apr. 22 2025        | Apr. 21 2026            |

## 4 TEST CONDITIONS AND RESULTS

### 4.1 AC Power Conducted Emission

#### TEST CONFIGURATION



#### TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

#### AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

| 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        |

\* Decreases with the logarithm of the frequency.

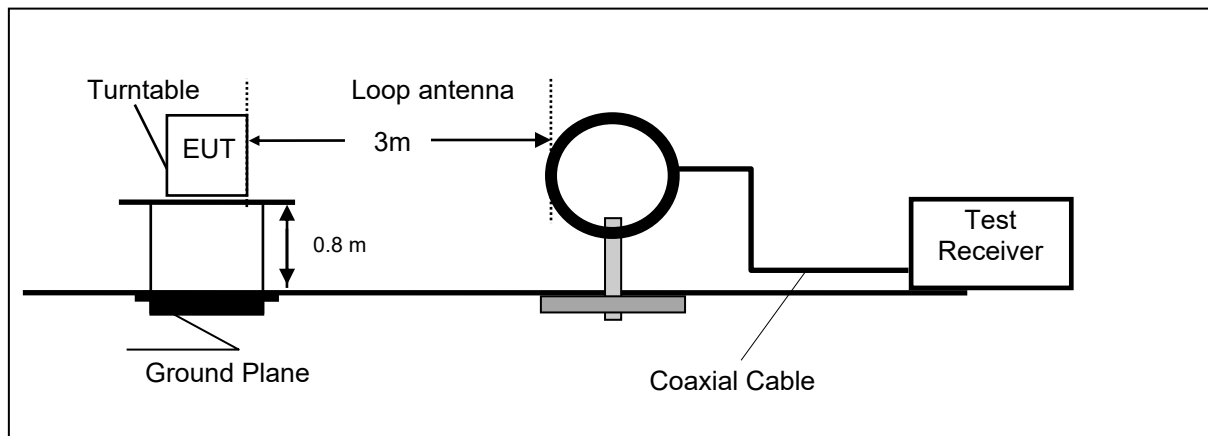
#### TEST RESULTS

N/A

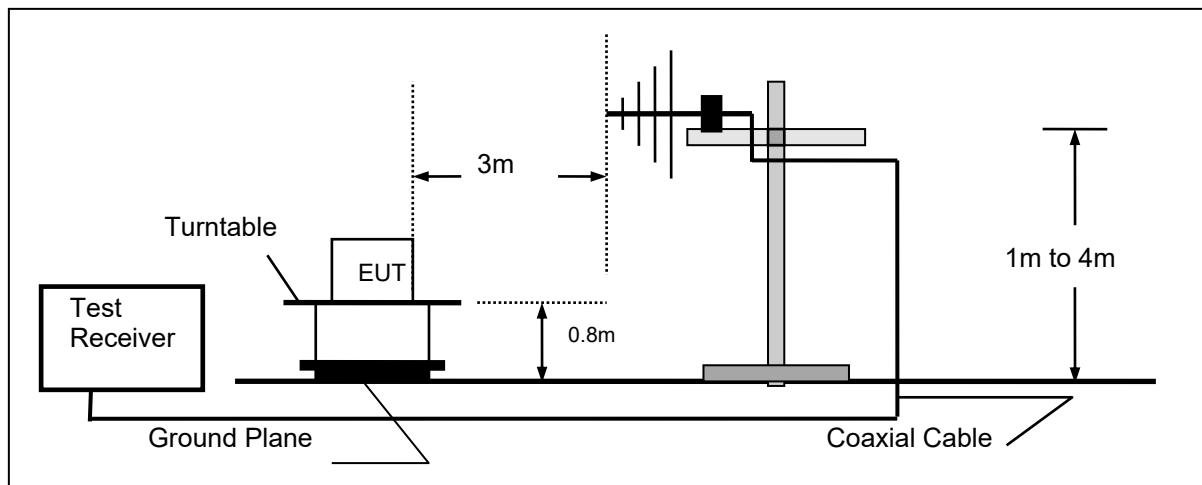
## 4.2 RADIATED MEASUREMENT

### TEST CONFIGURATION

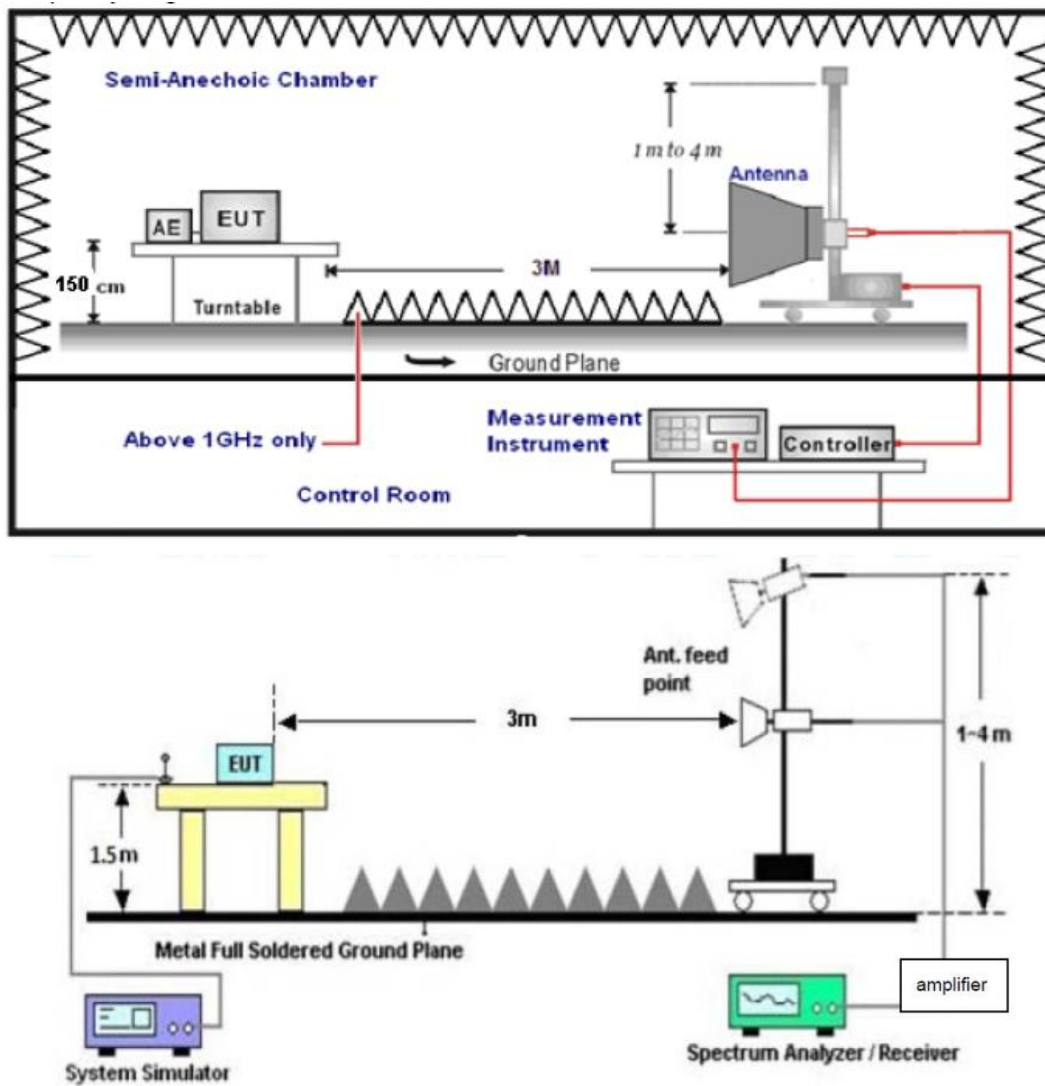
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



## TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
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.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type          | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna        | 3             |
| 30MHz-1GHz           | Ultra-Broadband Antenna    | 3             |
| 1GHz-18GHz           | Double Ridged Horn Antenna | 3             |
| 18GHz-25GHz          | Horn Antenna               | 1             |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Test Receiver/Spectrum Setting         | Detector |
|----------------------|----------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz,Sweep time=Auto     | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz,Sweep time=Auto    | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz,Sweep time=Auto | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz,         | Peak     |

|  |                                                                         |  |
|--|-------------------------------------------------------------------------|--|
|  | Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz,<br>Sweep time=Auto |  |
|--|-------------------------------------------------------------------------|--|

### **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |
| AF = Antenna Factor       |                                            |

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

### **RADIATION LIMIT**

According to §15.239 (b): The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| 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                   |

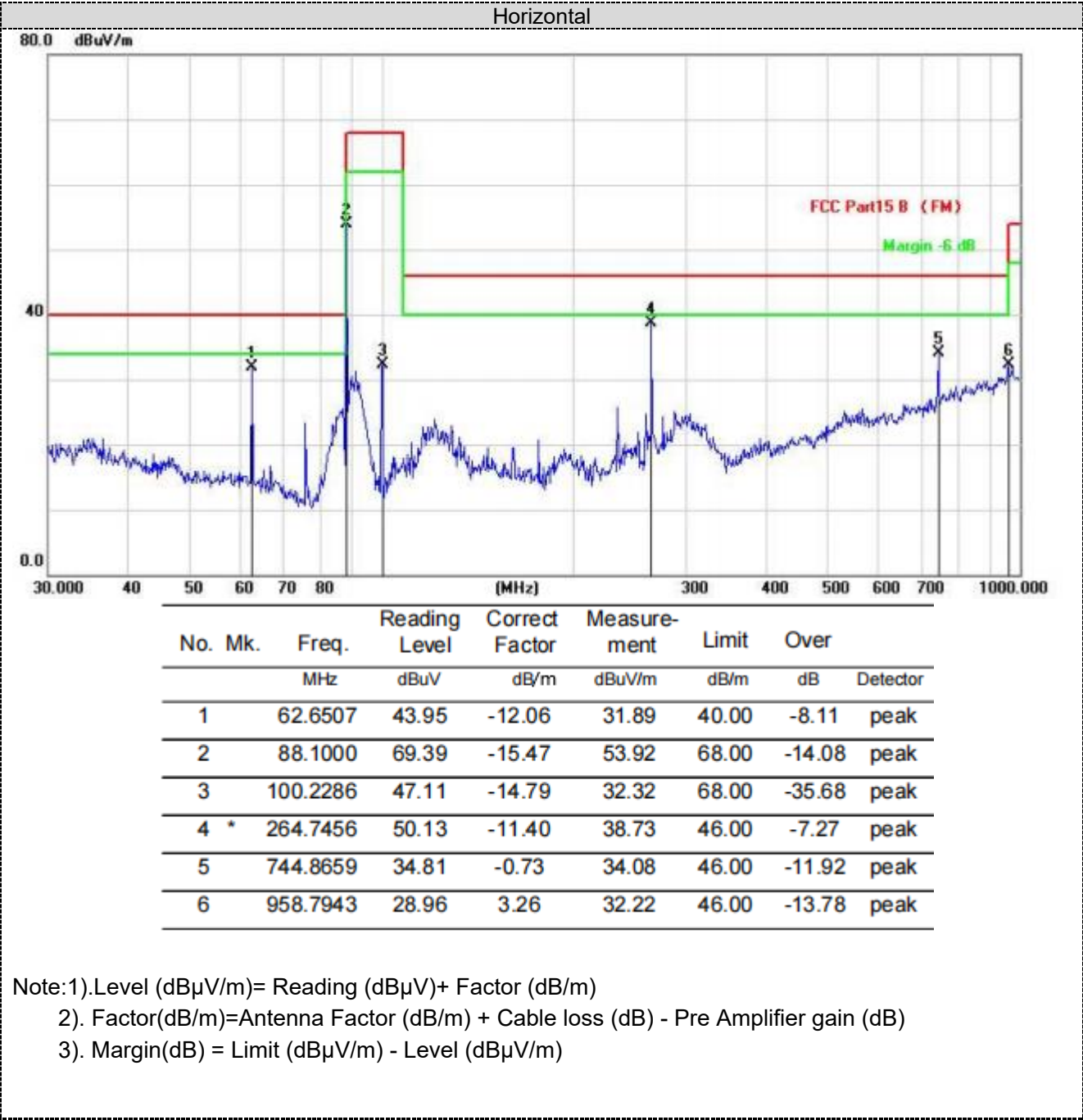
### **TEST RESULTS**

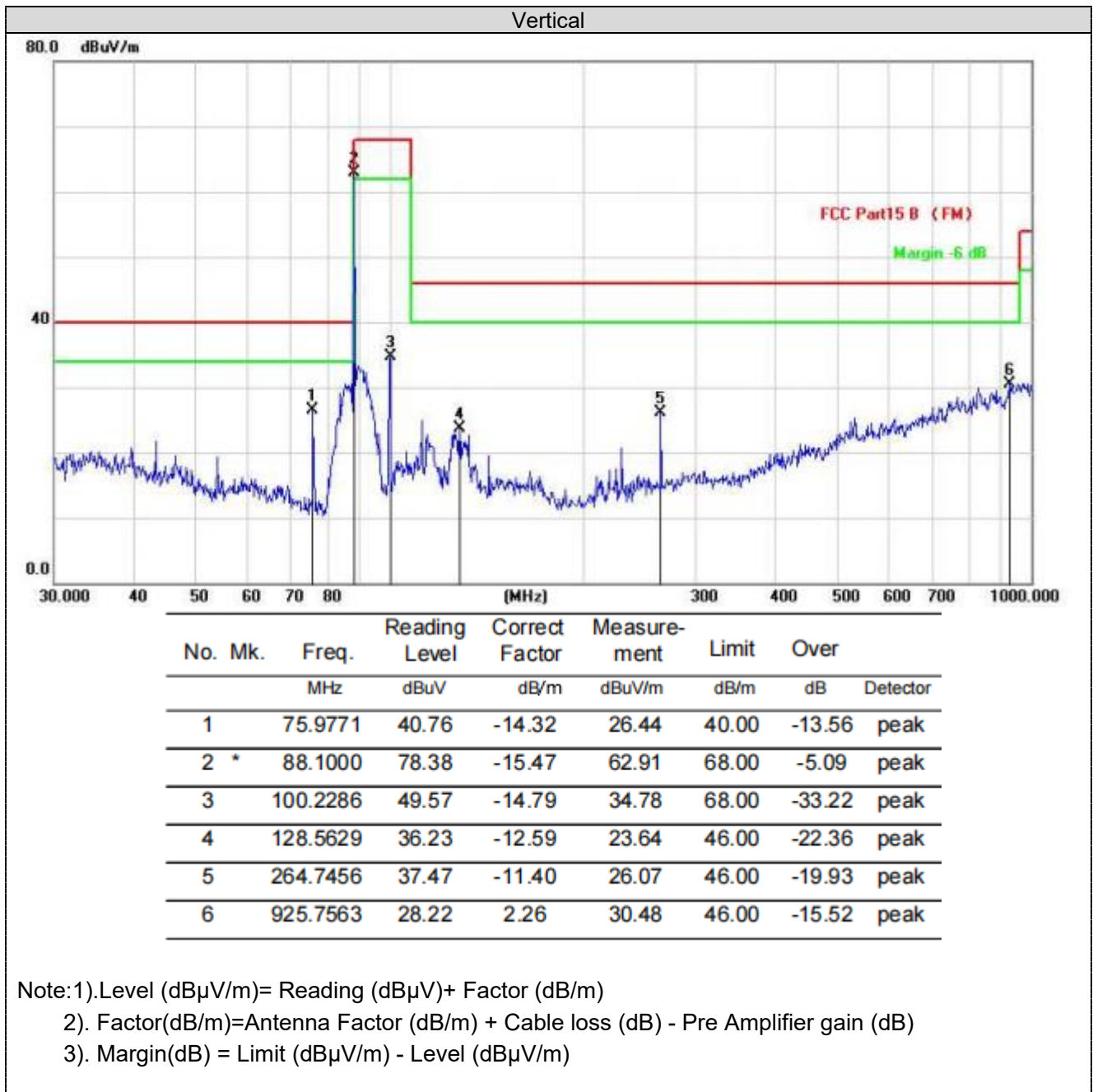
Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. FM were tested at Low, Middle, and High channel and recorded worst mode at Mid.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

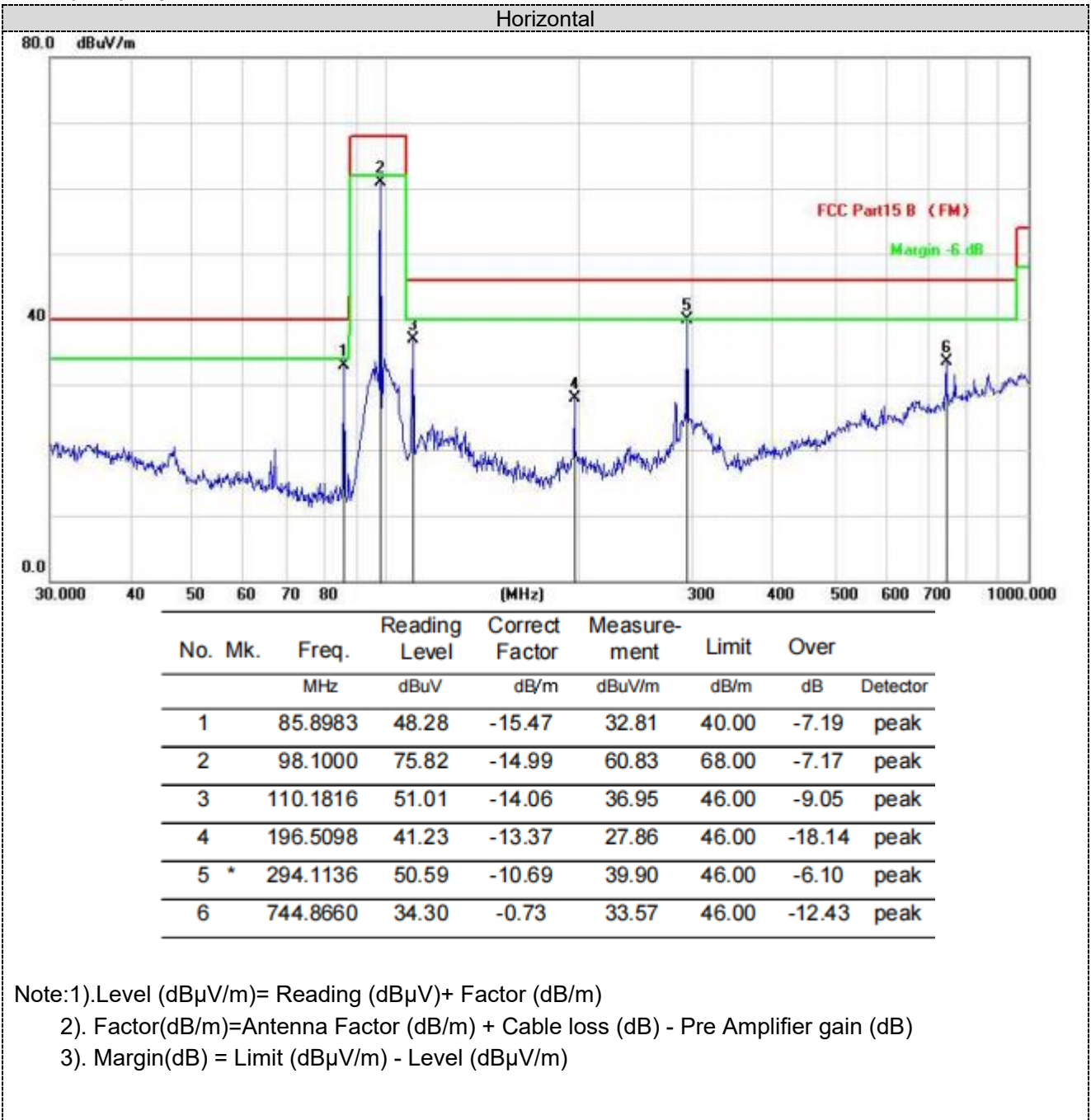
**For 30MHz-1GHz**

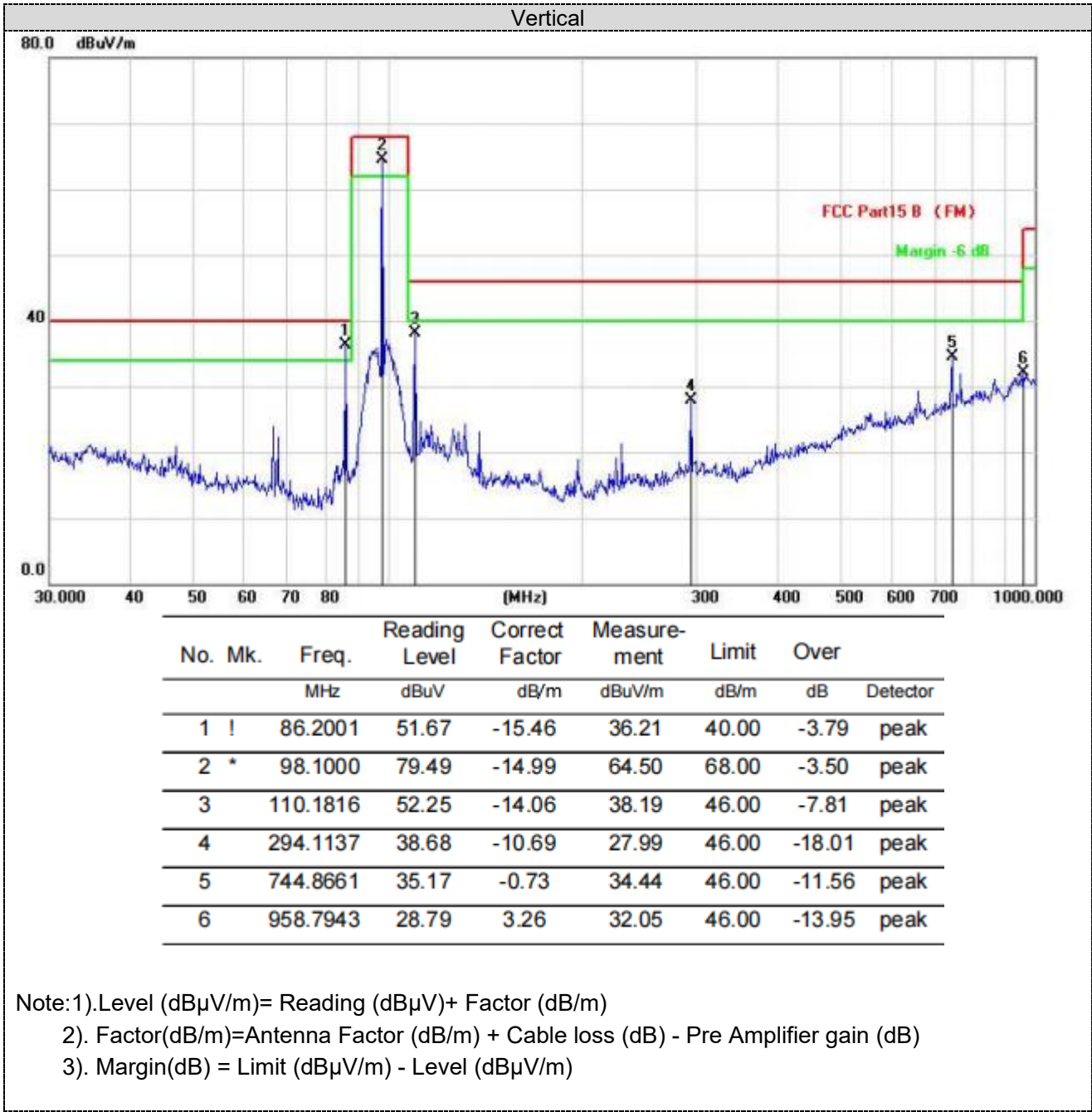
TX Low Channel:



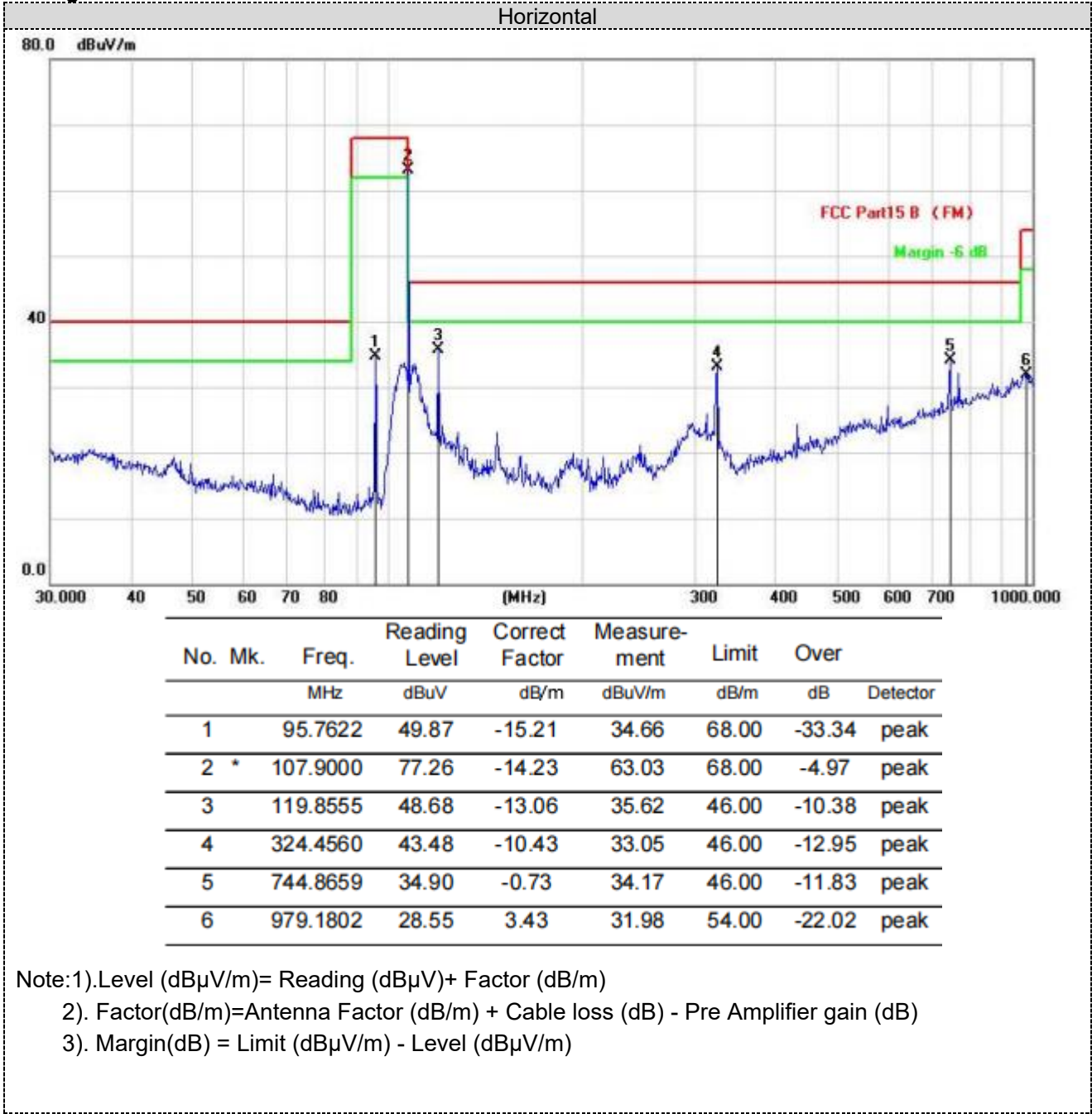


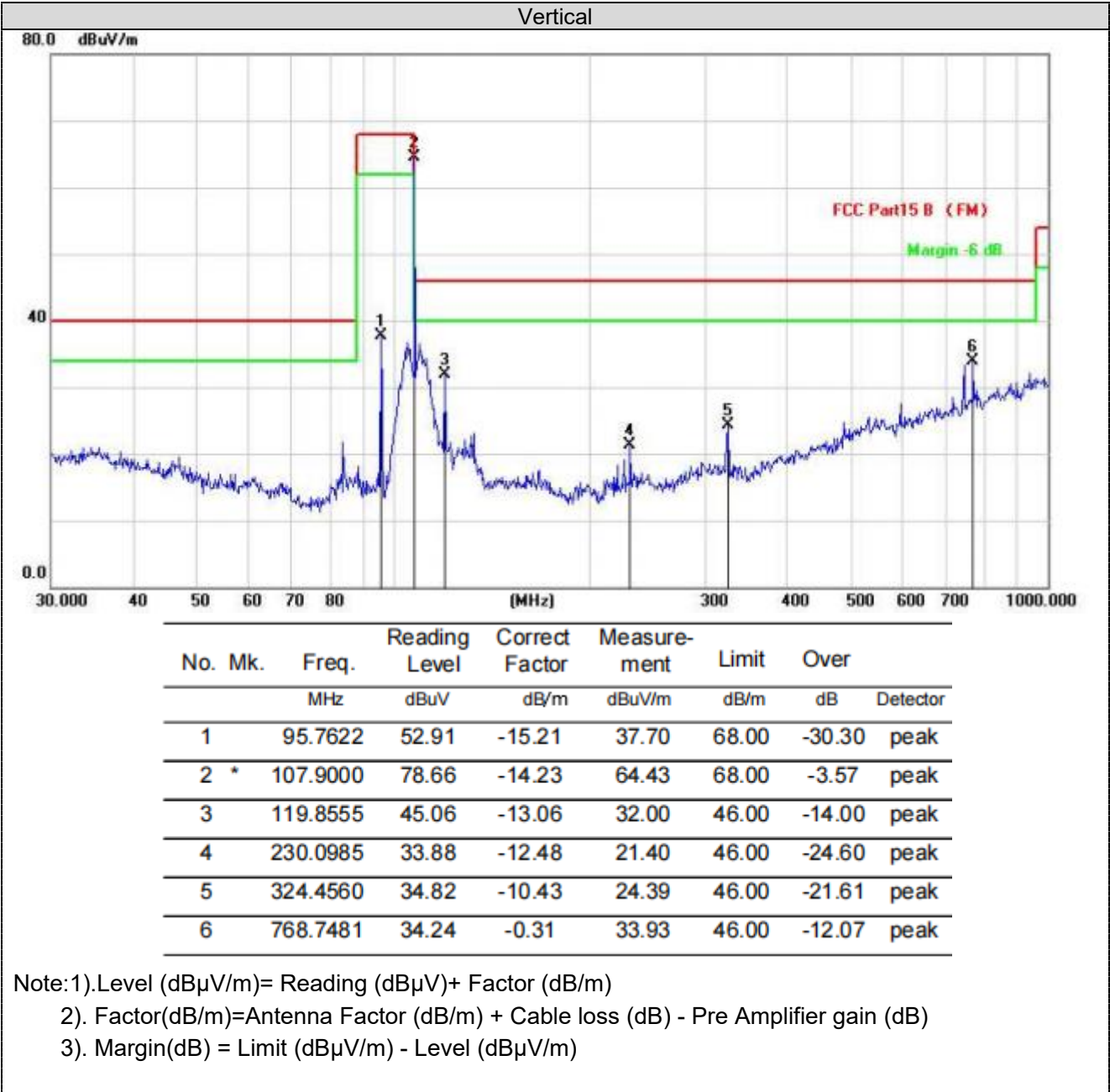
## TX Mid Channel:





TX High Channel:





### 4.3 99% AND 20DB BANDWIDTH

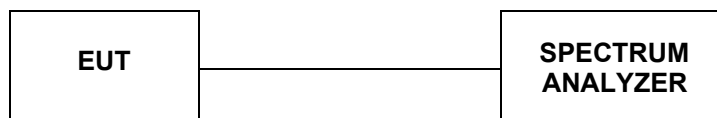
#### Limit

According to §15.239 (a) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108MHz.

#### Test Procedure

- 1:The transmitter shall be operated at its maximum carrier power measured under normal test conditions
- 2:The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.
- 3:The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately 3x RBW.
- 4:Detector function = peak.
- 5:Trace = max hold.

#### Test Configuration

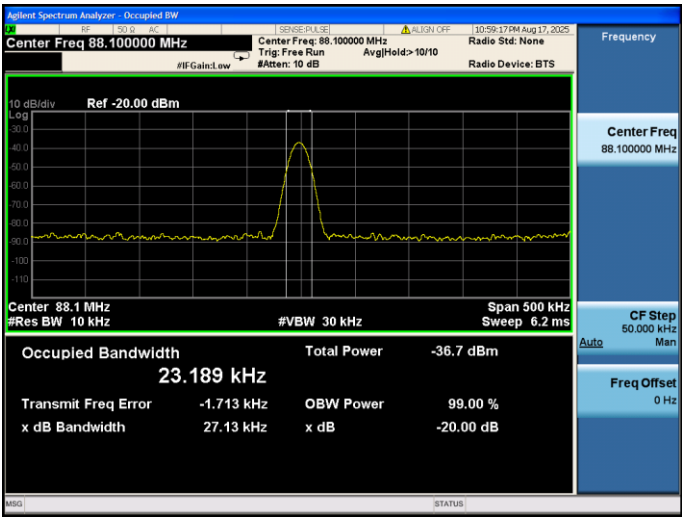


#### Test Results

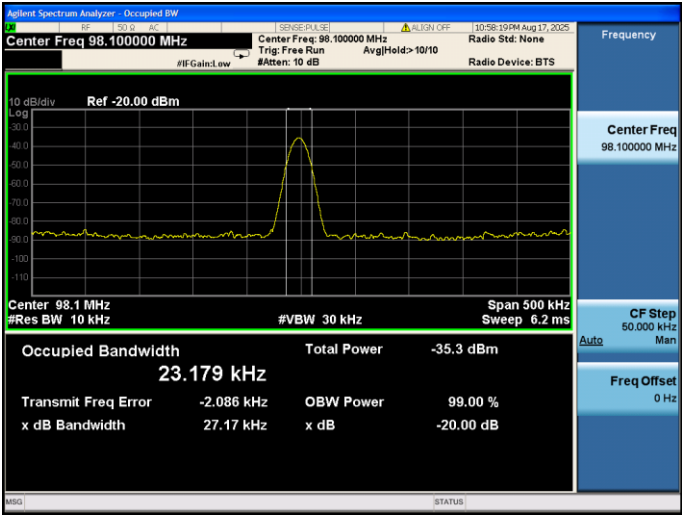
| Type | Channel | 20dB Bandwidth (KHz) | 99% Bandwidth (KHz) | Limit (KHz) | Result |
|------|---------|----------------------|---------------------|-------------|--------|
| FM   | Low     | 27.13                | 23.189              | 200.00      | Pass   |
|      | Mid     | 27.17                | 23.179              |             |        |
|      | High    | 27.22                | 23.647              |             |        |

Test plot as follows:

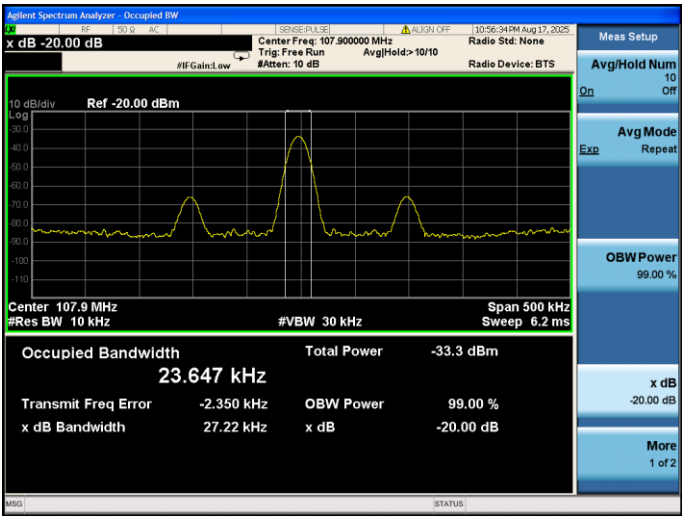
FM



Low



Mid



High

## 4.4 Antenna Requirement

### Standard Applicable

**For intentional device, according to FCC 47 CFR Section 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, 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

### Antenna Connected Construction

The maximum gain of antenna was 0.00 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.

## **5 Test Setup Photos of the EUT**

Reference to the **appendix I** for details.

## **6 Photos of the EUT**

Reference to the **appendix II** for details.

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