

## TEST REPORT

### FCC PART 15.209

**Report Reference No.**..... : **MTEB26060002-R**

**FCC ID**..... : **YMX-EC-6701A1**

Compiled by

( position+printed name+signature)..: File administrators Alisa Luo

Supervised by

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Approved by

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Date of issue..... : **June 01,2026**

**Representative Laboratory Name.:** **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**..... : **XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.**

Address..... : (5/F)NO.168, QIANPU ROAD,SIMING DISTRICT,XIAMEN,Fujian  
CHINA

**Test specification/ Standard**..... : **FCC Rules and Regulations Part 15 Subpart C (Section 15.209),  
ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata  
to C63.10a-2024**

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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**Test item description**..... : Massage Chair

Trade Mark..... : N/A

Model/Type reference..... : Somnus 4D DuoFlex

Listed Models ..... : EC-6701A1

Modulation Type..... : MSK

Operation Frequency..... : 110-205KHz

Rating..... : 110-120V~ 60Hz

Hardware Version ..... : 1.0

Software Version ..... : 1.0

Result..... : **PASS**

## TEST REPORT

Equipment under Test : Massage Chair

Model /Type : Somnus 4D DuoFlex

Listed Models : EC-6701A1

Remark : It's just a different model. Everything else is the same

Applicant : **XIAMEN COMFORT SCIENCE & TECHNOLOGY GROUP CO.,LTD.**

Address : (5/F)NO.168, QIANPU ROAD,SIMING DISTRICT,XIAMEN,Fujian  
CHINA

Manufacturer : **XIAMEN HEALTHCARE ELECTRONIC CO.,LTD.**

Address : 65-66#, 62-63# BUILDING, SIMING ZONE, TONGAN INDUSTRIAL  
DISTRICT, XIAMEN CITY, FUJIAN PROVINCE, P.R.CHINA

|                     |             |
|---------------------|-------------|
| <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.

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1. Revision History

| Revision | Issue Date | Revisions     | Revised By |
|----------|------------|---------------|------------|
| 00       | 2026.06.01 | Initial Issue | Alisa Luo  |
|          |            |               |            |
|          |            |               |            |

## **2. TEST STANDARDS**

The tests were performed according to following standards:

The tests were performed according to following standards:

[ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024](#) : American National Standard for Testing Unlicensed Wireless Devices  
FCC Rules and Regulations Part 15 Subpart C (Section 15.207): Conducted limits.  
FCC Rules and Regulations Part 15 Subpart C (Section 15.209): Radiated emission limits; general requirements.

### 3. SUMMARY

#### 3.1. General Remarks

|                                |   |            |
|--------------------------------|---|------------|
| Date of receipt of test sample | : | 2026.05.20 |
|                                |   |            |
| Testing commenced on           | : | 2026.05.21 |
|                                |   |            |
| Testing concluded on           | : | 2026.06.01 |

#### 3.2. Product Description

|                       |                   |
|-----------------------|-------------------|
| Product Name:         | Massage Chair     |
| Model/Type reference: | Somnus 4D DuoFlex |
| Power Supply:         | 110-120V~ 60Hz    |
| Testing sample ID:    | MTYP12874         |
| Modulation:           | MSK               |
| Operation frequency:  | 110-205KHz        |
| Antenna type:         | Coil Antenna      |

#### 3.3. Equipment Under Test

##### Power supply system utilised

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

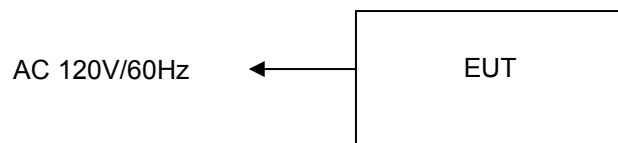
#### 3.4. Short description of the Equipment under Test (EUT)

This is a Massage Chair For more details, refer to the user's manual of the EUT.

#### 3.5. EUT operation mode

| Test Item                                                                                         | Test Modes     | Test Voltage |
|---------------------------------------------------------------------------------------------------|----------------|--------------|
| Conducted Emission                                                                                | Full load mode | AC 120V/60Hz |
|                                                                                                   | Half load mode | AC 120V/60Hz |
|                                                                                                   | Null load mode | AC 120V/60Hz |
| Radiated Emission                                                                                 | Full load mode | AC 120V/60Hz |
|                                                                                                   | Half load mode | AC 120V/60Hz |
|                                                                                                   | Null load mode | AC 120V/60Hz |
| Note: The mode is a was the worst case and only the data of the worst case record in this report. |                |              |

### 3.6. Block Diagram of Test Setup



### 3.7. Test Item (Equipment Under Test) Description\*

| Short designation | EUT Name | EUT Description | Serial number | Hardware status | Software status |
|-------------------|----------|-----------------|---------------|-----------------|-----------------|
| EUT A             | /        | /               | /             | /               | /               |
| EUT B             | /        | /               | /             | /               | /               |
|                   |          |                 |               |                 |                 |

\*: declared by the applicant. According to customers information EUTs A and B are the same devices.

### 3.8. Auxiliary Equipment (AE) Description

| AE short designation | EUT Name (if available) | EUT Description | Serial number (if available) | Software (if used) |
|----------------------|-------------------------|-----------------|------------------------------|--------------------|
| AE 1                 |                         |                 | /                            | /                  |
| AE 2                 |                         |                 |                              |                    |

### 3.9. Antenna Information\*

| Short designation | Antenna Name | Antenna Type | Frequency Range | Serial number | Antenna Peak Gain |
|-------------------|--------------|--------------|-----------------|---------------|-------------------|
| Antenna 1         | ---          | /            | Coil Antenna    | ---           | ---               |
|                   |              |              |                 |               |                   |
|                   |              |              |                 |               |                   |

\*: declared by the applicant.

### 3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

|           |               |  |
|-----------|---------------|--|
| ○ ADAPTER | M/N:          |  |
|           | Manufacturer: |  |

### 3.11. Modifications

No modifications were implemented to meet testing criteria.

## 4. TEST ENVIRONMENT

### 4.1. Address of the test laboratory

**Shenzhen Most Technology Service Co., Ltd.**

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.  
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

**Test Facility**

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

**FCC-Registration No.: 0031192610**

Shenzhen Most Technology Service 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.

**A2LA-Lab Cert. No.: 6343.01**

Shenzhen Most Technology Service 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: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### 4.2. Environmental conditions

Radiated Emission:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 23 ° C       |
|                       |              |
| Humidity:             | 48 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

|                       |              |
|-----------------------|--------------|
| Temperature:          | 24 ° C       |
|                       |              |
| Humidity:             | 45 %         |
|                       |              |
| Atmospheric pressure: | 950-1050mbar |

### 4.3. Test Description

| FCC and IC Requirements |                                                |      |
|-------------------------|------------------------------------------------|------|
| FCC Part 15.203         | Antenna Requirement                            | PASS |
| FCC Part 15.207         | AC Power Conducted Emission                    | PASS |
| FCC Part 15.209         | Radiated emission; Radiated Spurious Emissions | PASS |
| FCC Part 15.215         | 20dB Occupied Bandwidth                        | PASS |

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

### 4.4. 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 Most Technology Service 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 Most Technology Service Co., Ltd. is reported:

| Test                           | Range      | Measurement Uncertainty | Notes |
|--------------------------------|------------|-------------------------|-------|
| Radiated Emission              | 30~1000MHz | 4.10 dB                 | (1)   |
| Radiated Emission              | 1~18GHz    | 4.32 dB                 | (1)   |
| Radiated Emission              | 18-40GHz   | 5.54 dB                 | (1)   |
| Conducted Disturbance          | 0.15~30MHz | 3.12 dB                 | (1)   |
| 20dB Bandwidth                 | /          | 5%                      | (1)   |
| Maximum Conducted Output Power | /          | 0.80dB                  | (1)   |
| Spurious RF Conducted Emission | /          | 1.6dB                   | (1)   |

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

#### 4.5. Equipments Used during the Test

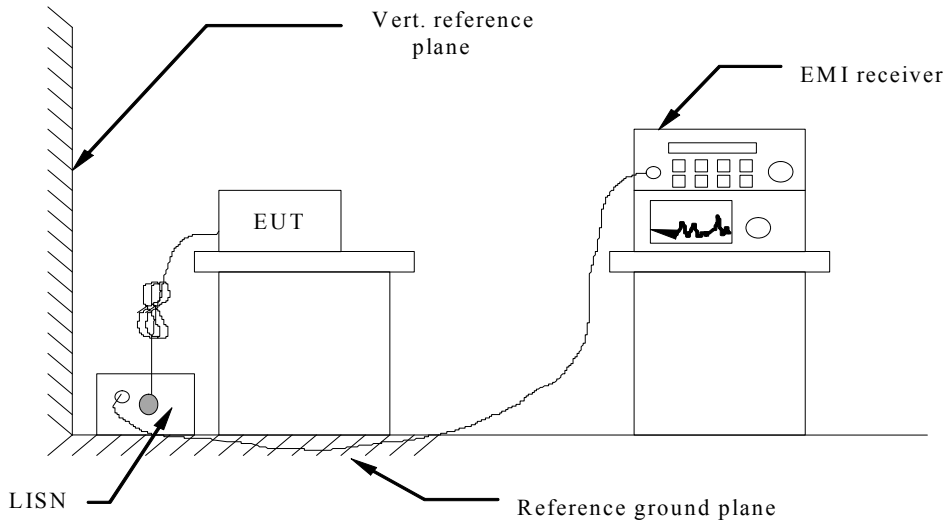
| Item | Equipment                                  | Manufacturer     | Model No.      | Serial No.  | Firmware versions | Last Cal.  |
|------|--------------------------------------------|------------------|----------------|-------------|-------------------|------------|
| 1.   | L.I.S.N.                                   | R&S              | ENV216         | 100093      | /                 | 2026/02/28 |
| 2.   | Three-phase artificial power network       | Schwarzback Mess | NNLK8129       | 8129178     | /                 | 2026/02/28 |
| 3.   | Receiver                                   | R&S              | ESCI           | 100492      | V3.0-10-2         | 2026/02/28 |
| 4.   | Receiver                                   | R&S              | ESPI           | 101202      | V3.0-10-2         | 2026/02/28 |
| 5.   | Spectrum analyzer                          | Agilent          | 9020A          | /           | A14.16            | 2026/02/28 |
| 6.   | Bilong Antenna                             | Sunol Sciences   | JB3            | A121206     | /                 | 2025/11/22 |
| 7.   | Horn antenna                               | HF Antenna       | HF Antenna     | /           | /                 | 2026/03/08 |
| 8.   | Loop antenna                               | Beijing Daze     | ZN30900B       | /           | /                 | 2026/03/28 |
| 10.  | Wireless Communication Test Set            | R&S              | CMW500         | 155873      | V3.7.40           | 2026/02/28 |
| 11.  | Preamplifier                               | Millitech        | KA-LNA18-40-01 | 18050001    | /                 | 2026/02/28 |
| 12.  | High gain antenna                          | A-INFOMW         | LB-180400KF    | J211060273  | /                 | 2026/02/28 |
| 13.  | Spectrum analyzer                          | R&S              | FSP            | 100019      | V4.40 SP2         | 2026/02/28 |
| 14.  | Pre-amplifier                              | lenscend         | TAP011840      | AP21C806124 | /                 | 2026/02/28 |
| 15.  | RF Cable(below1GHz)                        | Times            | 9kHz-1GHz      | /           | /                 | 2026/02/28 |
| 16.  | RF Cable(above1GHz)                        | Times            | 1-18G          | /           | /                 | 2026/02/28 |
| 17.  | RF Cable(9KHz-40GHz)                       | Tonscend         | 170660         | /           | /                 | 2026/02/28 |
| 18.  | vector Signal Generator                    | ROHDE & SCHWARZ  | SMBV100B       |             | /                 | 2026/02/28 |
| 19.  | Signal Generator                           | Agilent          | 5181A          |             | /                 | 2026/02/28 |
| 20.  | splitter                                   | Mini-Circuits    | ZAP-50W        | NN256400424 | /                 | 2026/02/28 |
| 21.  | Humid & Temp Programmable Tester           | Haida            | HD-2257        | 110807201   | /                 | 2026/02/28 |
| 22.  | X-series USB Peak and Average Power Sensor | Agilent          | U2021XA        | MY54080019  | /                 | 2026/02/28 |
| 23.  | 4 Ch.Simultaneous Sampling 14 Bits 2 MS/s  | Agilent          | U2531A         | TW54063507  | /                 | 2026/02/28 |
| 24.  | splitter                                   | Mini-Circuits    | ZAP-50W        | NN256400424 | /                 | 2026/02/28 |
| 25.  | Power meter                                | R&S              | NRVS           | 100444      | /                 | 2026/02/28 |
| 26.  | Testing software                           | Fala             | EZ-EMC(CE)     | /           | Ver.FA-03A1       | /          |
| 27.  | Testing software                           | Fala             | EZ-EMC(RE)     | /           | Ver.FA-03A3       | /          |
| 27.  | Testing software                           | WCS              | WCS            | /           | Ver.23.06.1401    | /          |

Note: The Cal.Interval was one year.

## 5. TEST CONDITIONS AND RESULTS

### 5.1. 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 0.1 meters is used and is placed on the ground plane as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- 2 Support equipment, if needed, was placed as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- 4 The EUT received AC120V/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 unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line 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

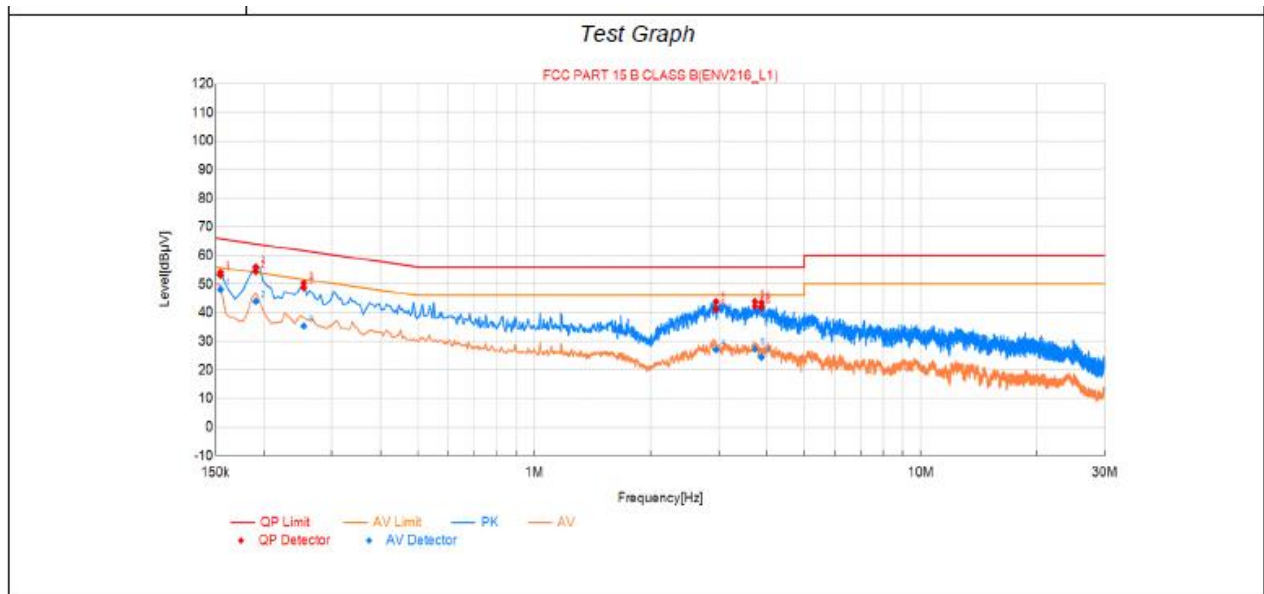
Pass---The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.  
(Test mode: Full load mode)

Power Supply

AC 120V/60Hz

Line

L

**Final Data List**

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBμV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.1545          | 9.60        | 43.48             | 53.08           | 65.75           | 12.67          | 38.51             | 48.11           | 55.75           | 7.64           | PASS    |
| 2   | 0.1905          | 9.60        | 44.73             | 54.33           | 64.01           | 9.68           | 34.36             | 43.96           | 54.01           | 10.05          | PASS    |
| 3   | 0.2535          | 9.60        | 39.10             | 48.70           | 61.64           | 12.94          | 25.75             | 35.35           | 51.64           | 16.29          | PASS    |
| 4   | 2.9535          | 9.61        | 31.59             | 41.20           | 56.00           | 14.80          | 17.43             | 27.04           | 46.00           | 18.96          | PASS    |
| 5   | 3.7275          | 9.62        | 32.68             | 42.30           | 56.00           | 13.70          | 17.63             | 27.25           | 46.00           | 18.75          | PASS    |
| 6   | 3.8715          | 9.62        | 32.20             | 41.82           | 56.00           | 14.18          | 14.86             | 24.48           | 46.00           | 21.52          | PASS    |

Note: (1) Level = Reading + Factor

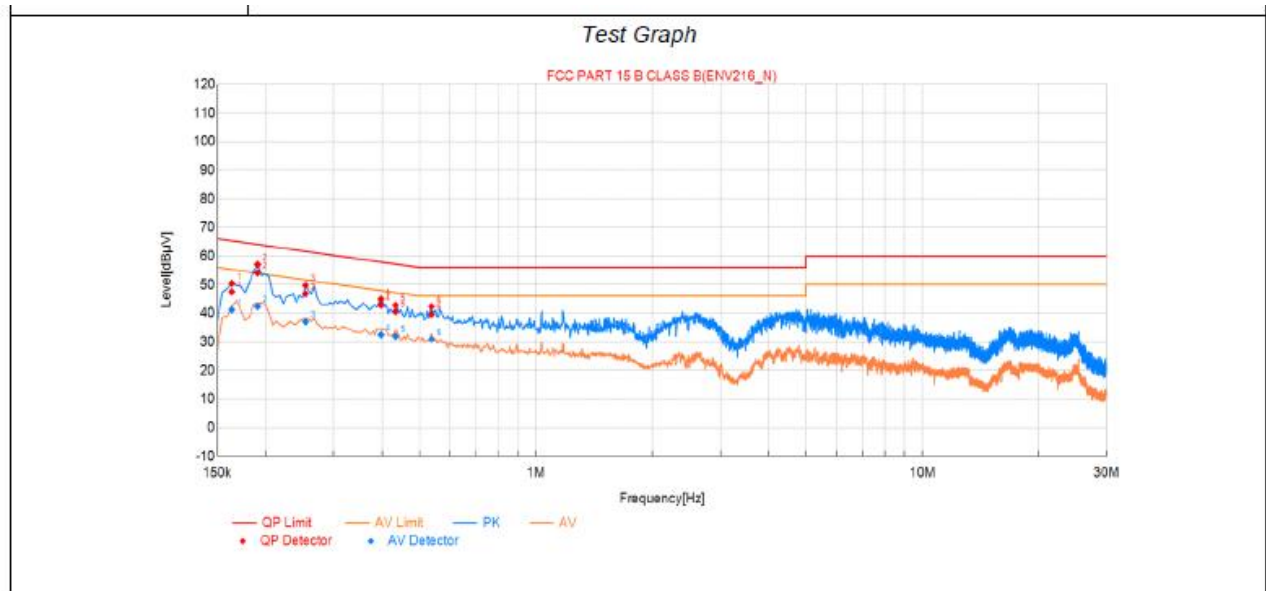
(2) Margin = Limit - Level

Power Supply

AC 120V/60Hz

Line

N

**Final Data List**

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBμV] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1   | 0.1635          | 9.61        | 37.86             | 47.47           | 65.28           | 17.81          | 31.60             | 41.21           | 55.28           | 14.07          | PASS    |
| 2   | 0.1905          | 9.60        | 44.52             | 54.12           | 64.01           | 9.89           | 32.78             | 42.38           | 54.01           | 11.63          | PASS    |
| 3   | 0.2535          | 9.60        | 37.19             | 46.79           | 61.64           | 14.85          | 27.41             | 37.01           | 51.64           | 14.63          | PASS    |
| 4   | 0.3975          | 9.59        | 33.21             | 42.80           | 57.91           | 15.11          | 22.91             | 32.50           | 47.91           | 15.41          | PASS    |
| 5   | 0.4335          | 9.59        | 31.05             | 40.64           | 57.19           | 16.55          | 22.35             | 31.94           | 47.19           | 15.25          | PASS    |
| 6   | 0.537           | 9.59        | 30.02             | 39.61           | 56.00           | 16.39          | 21.38             | 30.97           | 46.00           | 15.03          | PASS    |

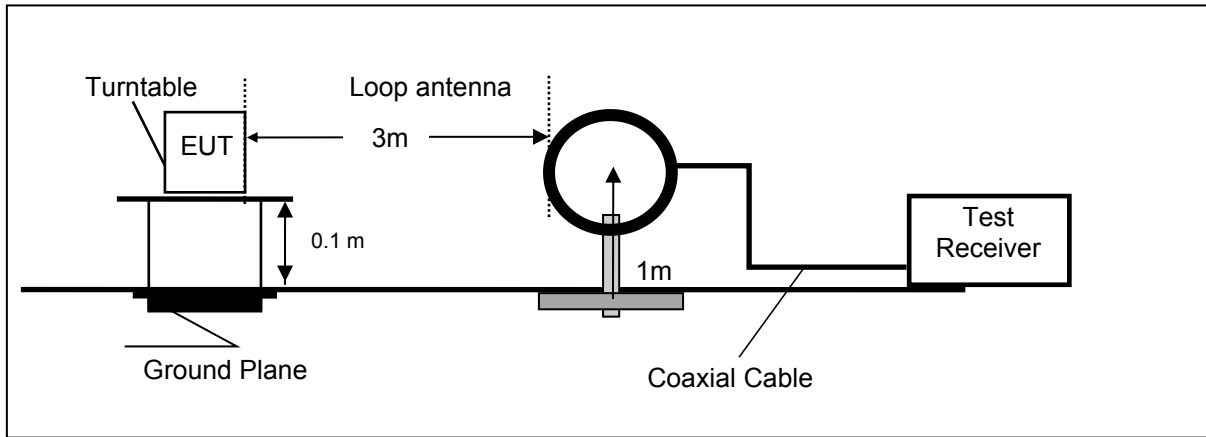
Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

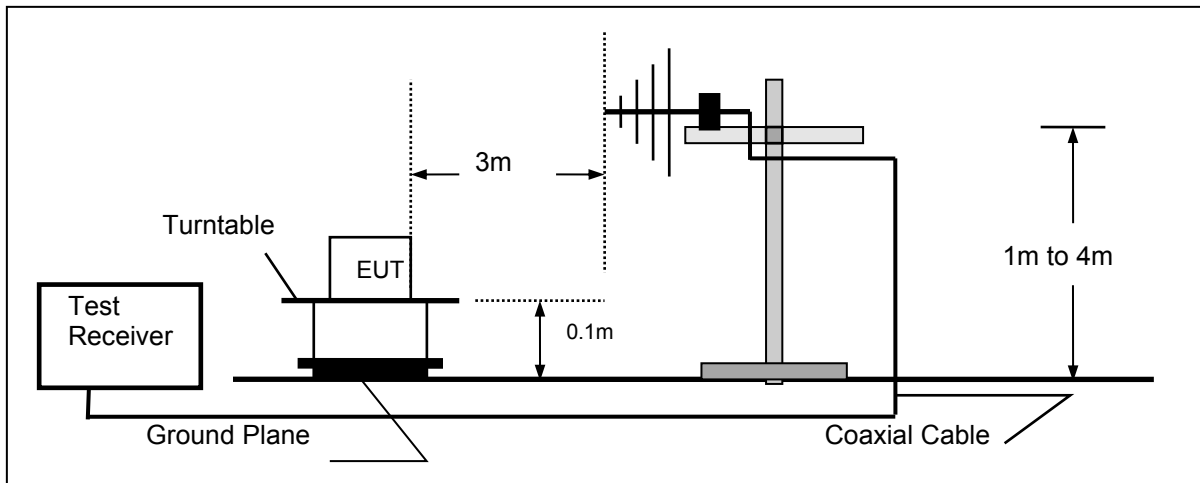
## 5.2. Radiated Emission

### TEST CONFIGURATION

Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



### TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.1m above ground plane when testing frequency range 9 KHz – 1GHz. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
2. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
3. Repeat above procedures until all frequency measurements have been completed.
4. 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             |

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

### **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       |                                            |

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

### **RADIATION LIMIT**

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

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

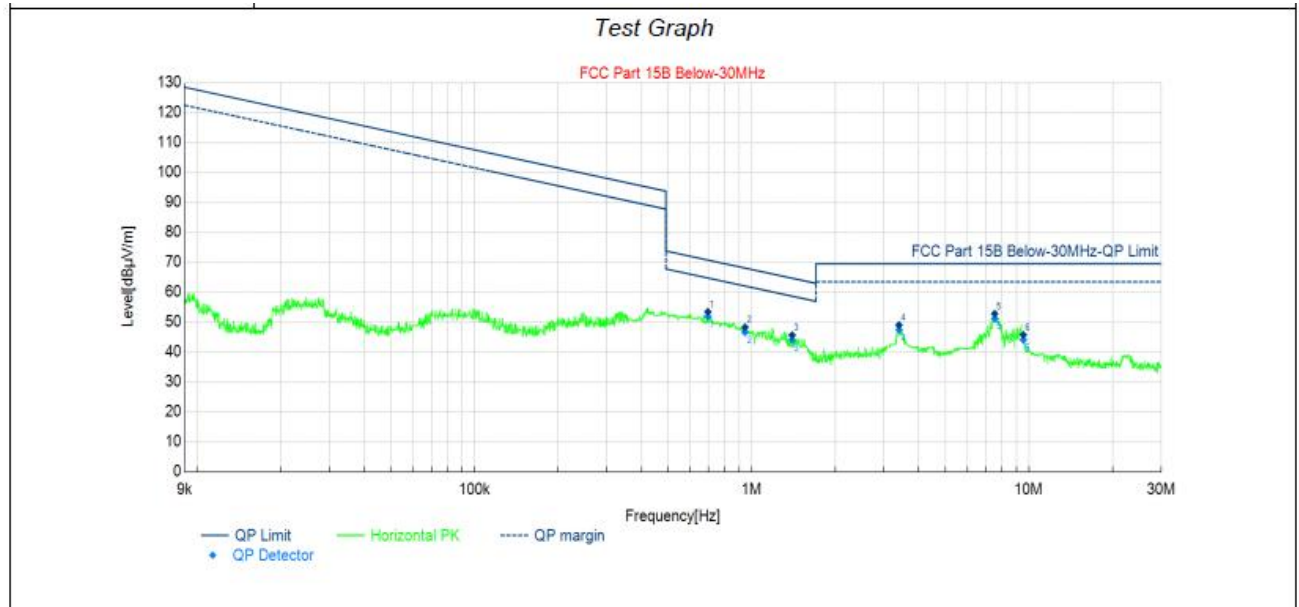
Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

| 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                   |

# Radiated Emissions Below 9K~30MHz

Coaxial:



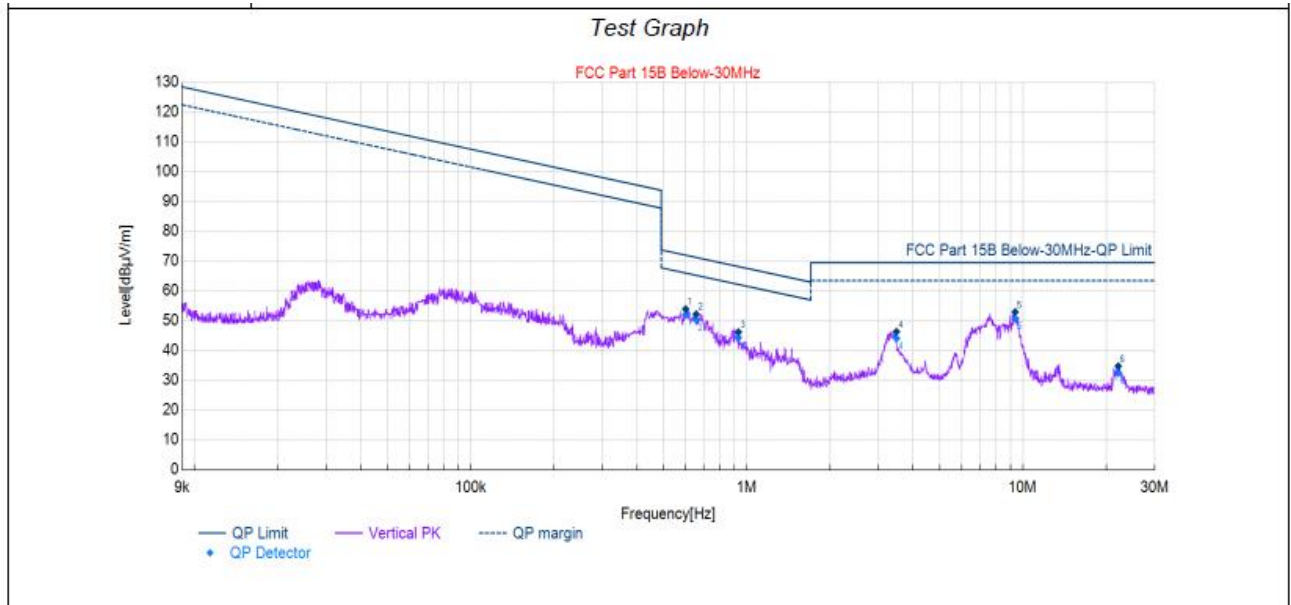
## Final Data List

| NO. | Frequency [MHz] | Factor [dB/m] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Pol        | Verdict |
|-----|-----------------|---------------|---------------------|-------------------|-------------------|----------------|------------|---------|
| 1   | 0.6951          | 26.74         | 25.11               | 51.85             | 70.77             | 18.92          | Horizontal | PASS    |
| 2   | 0.9460          | 26.31         | 20.37               | 46.68             | 68.10             | 21.42          | Horizontal | PASS    |
| 3   | 1.3990          | 26.32         | 17.72               | 44.04             | 64.71             | 20.67          | Horizontal | PASS    |
| 4   | 3.3999          | 26.71         | 20.74               | 47.45             | 69.50             | 22.05          | Horizontal | PASS    |
| 5   | 7.5270          | 26.52         | 24.69               | 51.21             | 69.50             | 18.29          | Horizontal | PASS    |
| 6   | 9.5420          | 26.35         | 17.81               | 44.16             | 69.50             | 25.34          | Horizontal | PASS    |

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

Coplane:

**Final Data List**

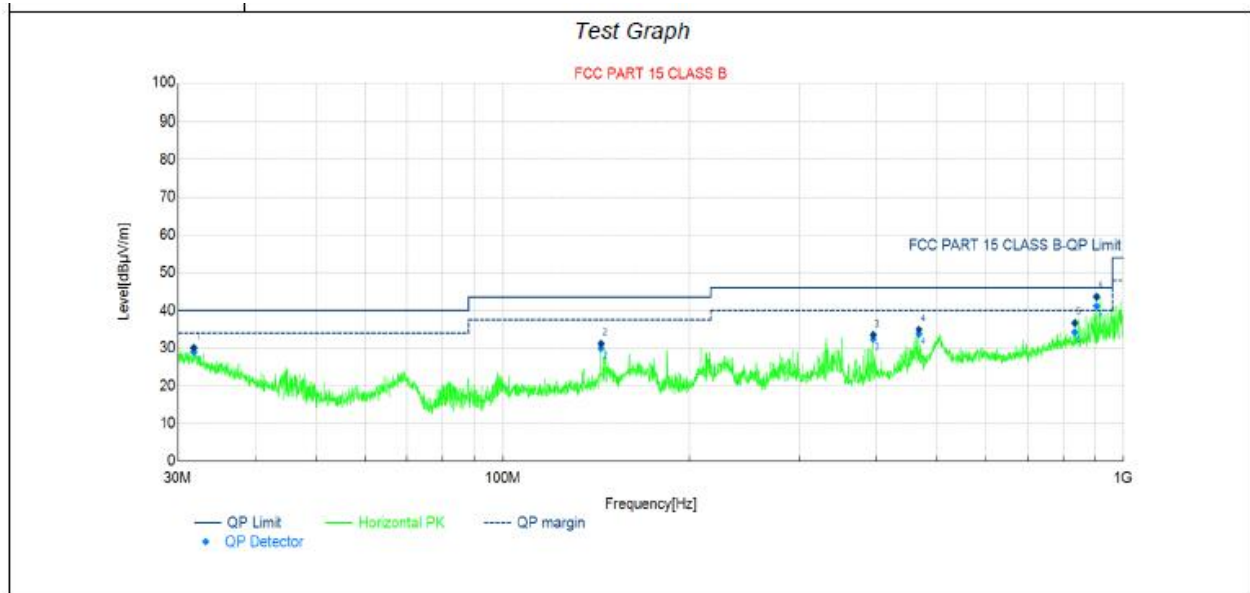
| NO. | Frequency [MHz] | Factor [dB/m] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Pol      | Verdict |
|-----|-----------------|---------------|---------------------|-------------------|-------------------|----------------|----------|---------|
| 1   | 0.6007          | 26.87         | 25.17               | 52.04             | 72.04             | 20.00          | Vertical | PASS    |
| 2   | 0.6554          | 26.79         | 23.55               | 50.34             | 71.28             | 20.94          | Vertical | PASS    |
| 3   | 0.9326          | 26.33         | 18                  | 44.33             | 68.23             | 23.90          | Vertical | PASS    |
| 4   | 3.4836          | 26.72         | 17.41               | 44.13             | 69.50             | 25.37          | Vertical | PASS    |
| 5   | 9.3695          | 26.36         | 24.38               | 50.74             | 69.50             | 18.76          | Vertical | PASS    |
| 6   | 22.1333         | 24.68         | 7.88                | 32.56             | 69.50             | 36.94          | Vertical | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

**For 30MHz-1GHz**

(Test mode: Full load mode)

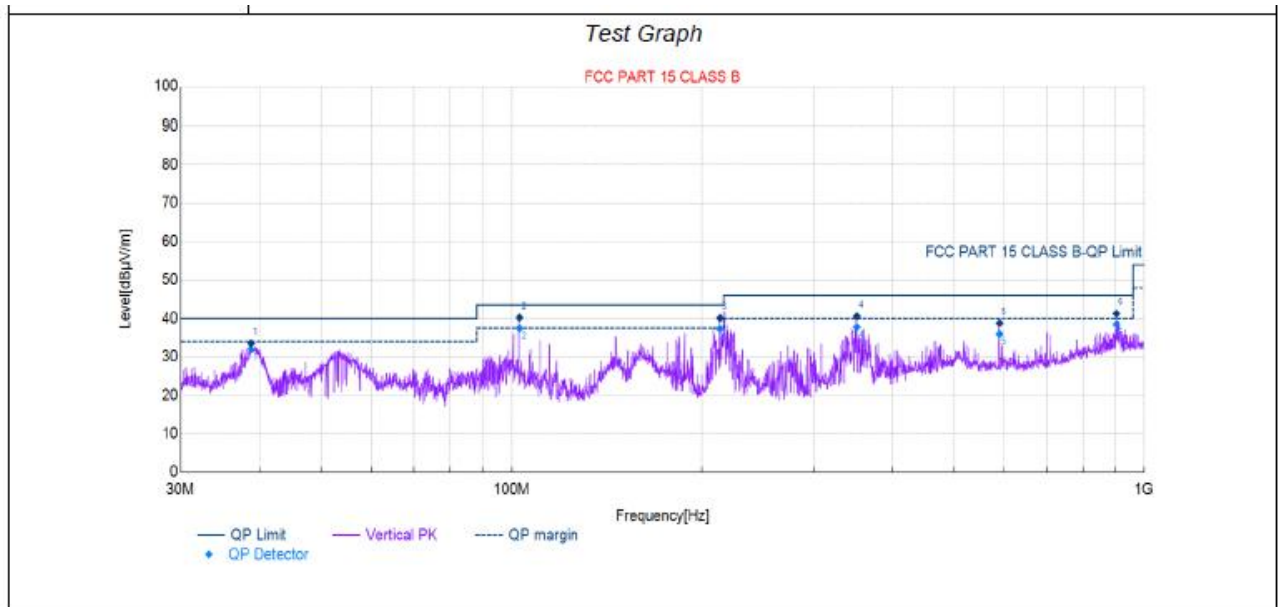
**Horizontal****Final Data List**

| NO. | Frequency [MHz] | Factor [dB/m] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Pol        | Verdict |
|-----|-----------------|---------------|---------------------|-------------------|-------------------|----------------|------------|---------|
| 1   | 31.7586         | 24.33         | 4.6                 | 28.93             | 40.00             | 11.07          | Horizontal | PASS    |
| 2   | 143.8993        | 16.91         | 13.07               | 29.98             | 43.50             | 13.52          | Horizontal | PASS    |
| 3   | 394.9463        | 18.30         | 14.05               | 32.35             | 46.00             | 13.65          | Horizontal | PASS    |
| 4   | 467.7336        | 21.31         | 12.47               | 33.78             | 46.00             | 12.22          | Horizontal | PASS    |
| 5   | 834.0858        | 28.27         | 5.93                | 34.20             | 46.00             | 11.80          | Horizontal | PASS    |
| 6   | 904.1244        | 29.04         | 12.09               | 41.13             | 46.00             | 4.87           | Horizontal | PASS    |

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

## Vertical



## Final Data List

| NO. | Frequency [MHz] | Factor [dB/m] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Pol      | Verdict |
|-----|-----------------|---------------|---------------------|-------------------|-------------------|----------------|----------|---------|
| 1   | 38.7153         | 14.75         | 17.27               | 32.02             | 40.00             | 7.98           | Vertical | PASS    |
| 2   | 102.8678        | 13.92         | 23.52               | 37.44             | 43.50             | 6.06           | Vertical | PASS    |
| 3   | 213.2843        | 15.09         | 22.22               | 37.31             | 43.50             | 6.19           | Vertical | PASS    |
| 4   | 351.1837        | 17.47         | 20.3                | 37.77             | 46.00             | 8.23           | Vertical | PASS    |
| 5   | 590.0163        | 23.69         | 12.3                | 35.99             | 46.00             | 10.01          | Vertical | PASS    |
| 6   | 902.5410        | 29.03         | 9.46                | 38.49             | 46.00             | 7.51           | Vertical | PASS    |

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

### 5.3. 20dB Bandwidth

#### 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.

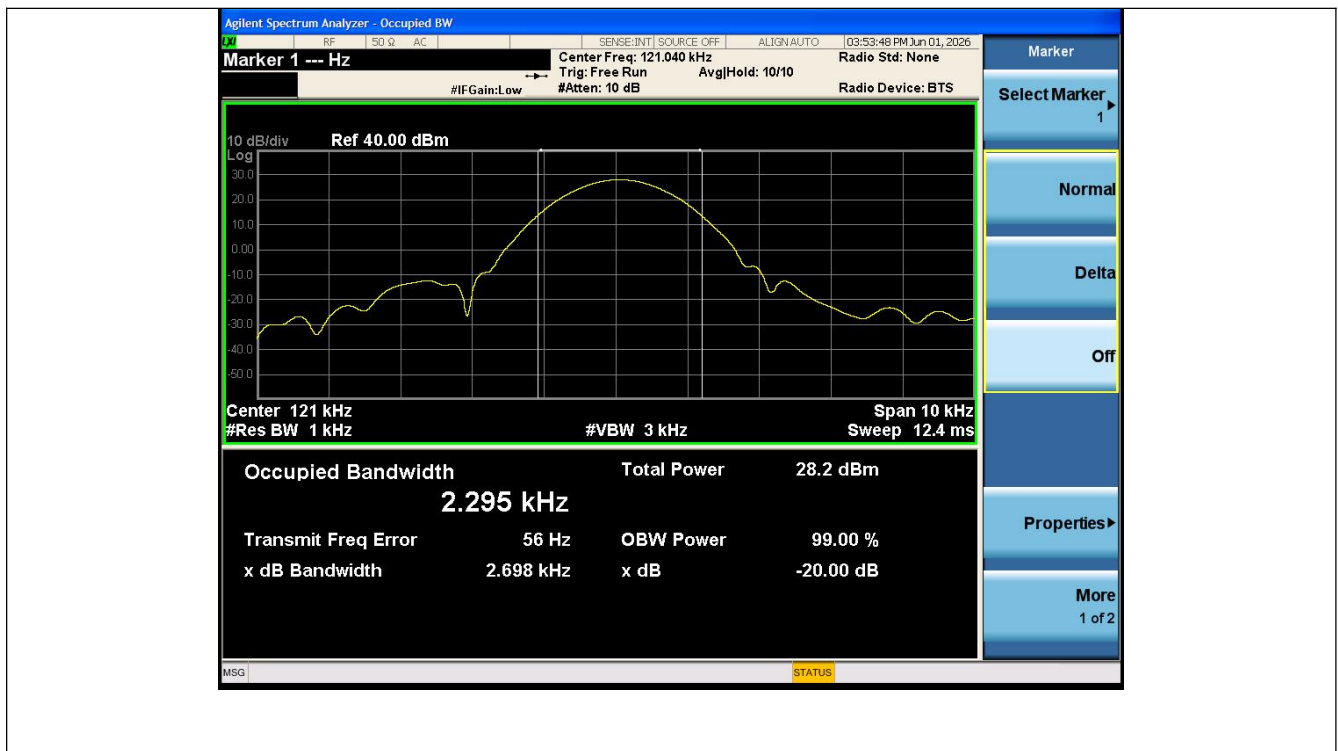
The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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

| Test Frequency (KHz) | 20dB bandwidth (KHz) | Result |
|----------------------|----------------------|--------|
| 121.040              | 2.698                | Pass   |

Test plot as follows:



#### **5.4. Antenna Requirement**

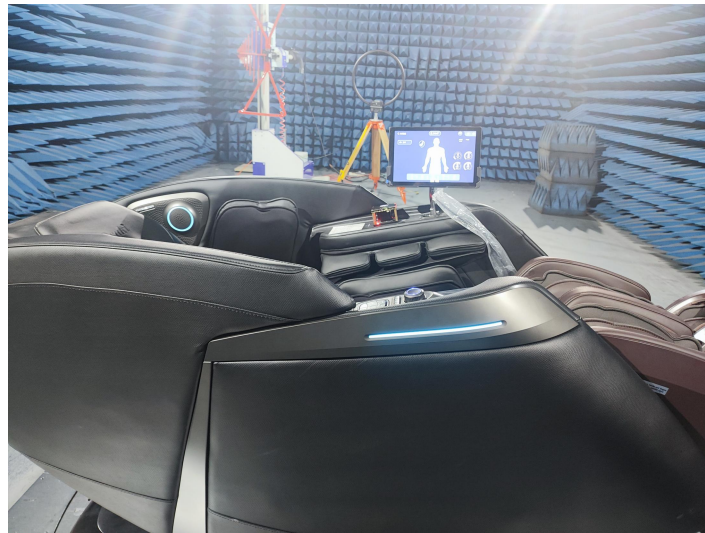
##### **Standard Applicable**

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.

##### **Antenna Connected Construction**

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203 and RSS-Gen Section 6.8.

## 6. Test Setup Photos of the EUT



## **7. External and Internal Photos of the EUT**

See related photo report.

.....**End of Report**.....