

# FCC Test Report

Report No.: AGC04138180601FE03

**FCC ID** : 2AAXO-SDL2093  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : STUDIO-Bluetooth® PORTABLE HIGH DEFINITION  
KARAOKE SYSTEM  
**BRAND NAME** : Singing Machine  
**MODEL NAME** : See page 4  
**CLIENT** : The Singing Machine Company, Inc.  
**DATE OF ISSUE** : July 05, 2018  
**STANDARD(S)** : FCC Part 15 Subpart C Section 15.249  
**TEST PROCEDURE(S)**  
**REPORT VERSION** : V1.0

**Attestation of Global Compliance (Shenzhen) Co., Ltd**

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### Report Revise Record

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | July 05, 2018 | Valid         | Initial release |

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## 1. VERIFICATION OF CONFORMITY

|                                 |                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Applicant</b>                | The Singing Machine Company, Inc.                                                                |
| <b>Address</b>                  | 6301 NW 5th Way, Suite 2900, Fort Lauderdale, FL 33309, USA                                      |
| <b>Manufacturer</b>             | Zhuhai Fullwing Electronic Co., Ltd Zhongshan Branch                                             |
| <b>Address</b>                  | 4/F & 5/F, No 10, Xing Ye Road, Xin Xu, San Xiang, Zhongshan, China                              |
| <b>Product Designation</b>      | STUDIO-Bluetooth® PORTABLE HIGH DEFINITION KARAOKE SYSTEM                                        |
| <b>Brand Name</b>               | Singing Machine                                                                                  |
| <b>Test Model</b>               | SDL2093                                                                                          |
| <b>Series Model</b>             | SDL2093, SDL2093SC, SDL2093XX (X is reserved for future color change. It can be 0-9, A-Z or N/A) |
| <b>Difference description</b>   | All the same except for the model name and appearance color                                      |
| <b>Date of test</b>             | June 07, 2018 to June 18, 2018                                                                   |
| <b>Deviation</b>                | None                                                                                             |
| <b>Condition of Test Sample</b> | Normal                                                                                           |
| <b>Report Template</b>          | AGCRT-US-BR/RF                                                                                   |

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By



Jonhen Wang(Wang Yonghuan) June 18, 2018

Reviewed By



Cool Cheng(Cheng Mengguo) July 05, 2018

Approved By



Forrest Lei(Lei Yonggang)  
 Authorized Officer July 05, 2018

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

|                                                                                                              |                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation Frequency</b>                                                                                   | 2.402 GHz to 2.480GHz                                                                                                                                                    |
| <b>Bluetooth Version</b>                                                                                     | V2.1+EDR                                                                                                                                                                 |
| <b>Modulation</b>                                                                                            | BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> $\pi/4$ -DQPSK, <input type="checkbox"/> 8DPSK<br>BLE <input type="checkbox"/> GFSK |
| <b>Number of channels</b>                                                                                    | 79                                                                                                                                                                       |
| <b>Hardware Version</b>                                                                                      | V1.0                                                                                                                                                                     |
| <b>Software Version</b>                                                                                      | V1.0                                                                                                                                                                     |
| <b>Antenna Designation</b>                                                                                   | PCB Antenna                                                                                                                                                              |
| <b>Antenna Gain</b>                                                                                          | -0.58dBi                                                                                                                                                                 |
| <b>Power Supply</b>                                                                                          | DC 12V by battery                                                                                                                                                        |
| <b>Charging Voltage(By adapter )</b>                                                                         | Model name: K48V180266U<br>INPUT: 100-240~ 50-60Hz 1.2A<br>OUTPUT: 18.0V $\overline{\sim}$ 2.66A                                                                         |
| Note: The standard USB port can be used to read data from U-disk but can't be used to transfer data with PC. |                                                                                                                                                                          |

### 2.2. TABLE OF CARRIER FREQUENCIES

BR/EDR Channel List

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHz | 0              | 2402MHz   |
|                | 1              | 2403MHz   |
|                | :              | :         |
|                | 38             | 2440 MHz  |
|                | 39             | 2441 MHz  |
|                | 40             | 2442 MHz  |
|                | :              | :         |
|                | 77             | 2479 MHz  |
|                | 78             | 2480 MHz  |

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.2$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB

### 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION         |
|-----|-------------------------------|
| 1   | Low channel GFSK              |
| 2   | Middle channel GFSK           |
| 3   | High channel GFSK             |
| 4   | Low channel $\pi/4$ -DQPSK    |
| 5   | Middle channel $\pi/4$ -DQPSK |
| 6   | High channel $\pi/4$ -DQPSK   |
| 7   | BT Link with charging         |
| 8   | BT Link(Hopping mode)         |

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. The EUT used fully-charged battery when tested.

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**Software Setting**

**FCCAssist 1.5**

**Parameter**

|                |    |             |       |             |      |
|----------------|----|-------------|-------|-------------|------|
| MODE           | TX |             |       |             |      |
| Channel        | 78 | Packet type | 2-DH3 | Data Types  | Pn9  |
| Transmit Power | 10 | Hopping     | OFF   | Serial Port | COM3 |

open COM3 succeed  
Channel: 78      Data Types: Pn9  
Transmit Power : 10      Packet type: 2-DH3  
Send configuration information successfully

**Send configuration**

**Description:**

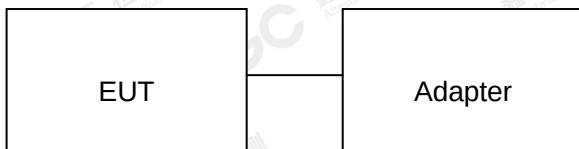
1. Channel: range 0-78, corresponding frequency 2.402GHz-2.480GHZ
2. Transmit Power range 0-10, 0 is the minimum, maximum 10

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## 5. SYSTEM TEST CONFIGURATION

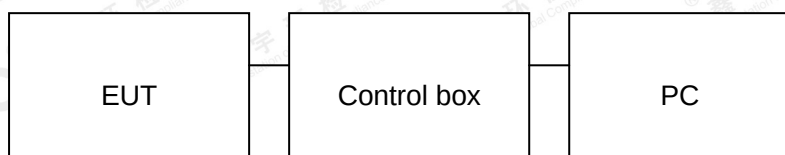
### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



**Note:** Owing to the EUT has own battery, and testing may be performed while adapter removed.

Configure 2: (Control continuous TX)



### 5.2. EQUIPMENT USED IN EUT SYSTEM

| Item | Equipment                                                          | Mfr/Brand       | Model/Type No. | Remark    |
|------|--------------------------------------------------------------------|-----------------|----------------|-----------|
| 1    | STUDIO-Bluetooth®<br>PORTABLE HIGH<br>DEFINITION KARAOKE<br>SYSTEM | Singing Machine | SDL2093        | EUT       |
| 2    | Battery                                                            | CONSENT         | GS12V7AH       | Accessory |
| 3    | Control box                                                        | GZUT            | N/A            | A.E       |
| 4    | Adapter                                                            | KPTEC           | K48V180266U    | Accessory |
| 5    | MIC                                                                | Singing Machine | 3m unshielded  | Accessory |
| 6    | USB Cable                                                          | N/A             | 1m unshielded  | A.E       |
| 7    | AUX IN Cable                                                       | N/A             | 1m unshielded  | A.E       |
| 8    | Mobile phone                                                       | Huawei          | V9             | A.E       |
| 9    | U-Disk                                                             | Kingston        | DT 101G2/16GB  | A.E       |
| 10   | Earphone                                                           | OPPO            | MH133          | A.E       |

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### 5.3. SUMMARY OF TEST RESULTS

| FCC RULES             | DESCRIPTION OF TEST | RESULT    |
|-----------------------|---------------------|-----------|
| §15.249(a)<br>§15.209 | Radiated Emission   | Compliant |
| §15.249(d)            | Band Edges          | Compliant |
| §15.207               | Conduction Emission | Compliant |
| §15.215               | Bandwidth           | Compliant |

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## 6. TEST FACILITY

|                               |                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site                     | Attestation of Global Compliance (Shenzhen) Co., Ltd                                                                                                                                                             |
| Location                      | 1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012 |
| NVLAP Lab Code                | 600153-0                                                                                                                                                                                                         |
| Designation Number            | CN5028                                                                                                                                                                                                           |
| Test Firm Registration Number | 682566                                                                                                                                                                                                           |
| Description                   | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0                                                                    |

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## 7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

## 8. TEST EQUIPMENT LIST

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model   | S/N    | Cal. Date    | Cal. Due     |
|---------------|--------------|---------|--------|--------------|--------------|
| TEST RECEIVER | R&S          | ESPI    | 101206 | Jun.20, 2017 | Jun.19, 2018 |
| LISN          | R&S          | ESH2-Z5 | 100086 | Aug.21, 2017 | Aug.20, 2018 |

### TEST EQUIPMENT OF RADIATED EMISSION TEST

| Equipment                    | Manufacturer    | Model       | S/N        | Cal. Date     | Cal. Due      |
|------------------------------|-----------------|-------------|------------|---------------|---------------|
| TEST RECEIVER                | R&S             | ESCI        | 10096      | Jun.20, 2017  | Jun.19, 2018  |
| EXA Signal Analyzer          | Aglient         | N9010A      | MY53470504 | Dec.08, 2017  | Dec.07, 2018  |
| Horn antenna                 | SCHWARZBECK     | BBHA 9170   | #768       | Sep.20, 2017  | Sep.19, 2018  |
| preamplifier                 | ChengYi         | EMC184045SE | 980508     | Sep.15, 2017  | Sep.14, 2018  |
| Double-Ridged Waveguide Horn | ETS LINDGREN    | 3117        | 00034609   | May 18, 2017  | May 17, 2019  |
| Broadband Preamplifier       | SCHWARZBECK     | BBV 9718    | 9718-205   | Jun.20, 2017  | Jun.19, 2018  |
| ANTENNA                      | SCHWARZBECK     | VULB9168    | D69250     | Sep.28, 2017  | Sep.27, 2018  |
| Radiation Cable 1            | MXT             | RS1         | R005       | N/A           | N/A           |
| Radiation Cable 2            | MXT             | RS1         | R006       | N/A           | N/A           |
| Loop Antenna                 | A.H.Systems,Inc | SAS-562B    | --         | Mar. 01, 2018 | Feb. 28, 2019 |
| Filter (2.4-2.483GHz)        | Micro-tronics   | 087         | --         | Jun.20, 2017  | Jun.19, 2018  |

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## 9. RADIATED EMISSION

### 9.1. TEST LIMIT

#### Standard FCC15.249

| Fundamental Frequency | Field Strength of Fundamental (millivolts/meter) | Field Strength of Harmonics (microvolts/meter) |
|-----------------------|--------------------------------------------------|------------------------------------------------|
| 900-928MHz            | 50                                               | 500                                            |
| 2400-2483.5MHz        | 50                                               | 500                                            |
| 5725-5875MHz          | 50                                               | 500                                            |
| 24.0-24.25GHz         | 250                                              | 2500                                           |

#### Standard FCC 15.209

| Frequency (MHz) | Distance Meters | Field Strengths Limit                                           |                |
|-----------------|-----------------|-----------------------------------------------------------------|----------------|
|                 |                 | $\mu$ V/m                                                       | dB( $\mu$ V)/m |
| 0.009 ~ 0.490   | 300             | 2400/F(kHz)                                                     | ---            |
| 0.490 ~ 1.705   | 30              | 24000/F(kHz)                                                    | ---            |
| 1.705 ~ 30      | 30              | 30                                                              | ---            |
| 30 ~ 88         | 3               | 100                                                             | 40.0           |
| 88 ~ 216        | 3               | 150                                                             | 43.5           |
| 216 ~ 960       | 3               | 200                                                             | 46.0           |
| 960 ~ 1000      | 3               | 500                                                             | 54.0           |
| Above 1000      | 3               | Other: 74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average) |                |

Remark:

- (1) Emission level  $\text{dB}\mu$  V = 20 log Emission level  $\mu$  V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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## 9.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

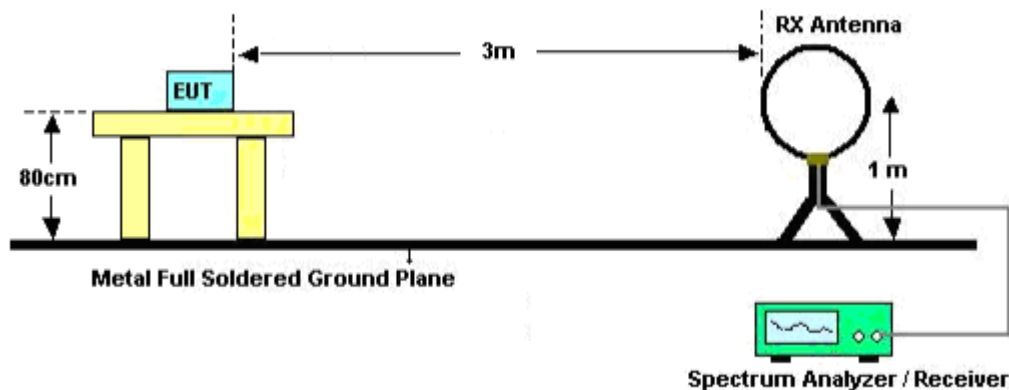
| Spectrum Parameter    | Setting                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP                                                                                                                                                            |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP                                                                                                                                                            |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP                                                                                                                                                         |
| Start ~Stop Frequency | Fundamental: 2.4~2.483GHz<br>RBW 2MHz/ VBW 6MHz for Peak,<br>RBW 2MHz/ VBW 10Hz for Average<br>Harmonics: 1GHz~25GHz<br>RBW 1MHz/ VBW 3MHz for Peak,<br>RBW 1MHz/ VBW 10Hz for Average |
| Receiver Parameter    | Setting                                                                                                                                                                                |
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP                                                                                                                                                            |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP                                                                                                                                                            |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP                                                                                                                                                         |

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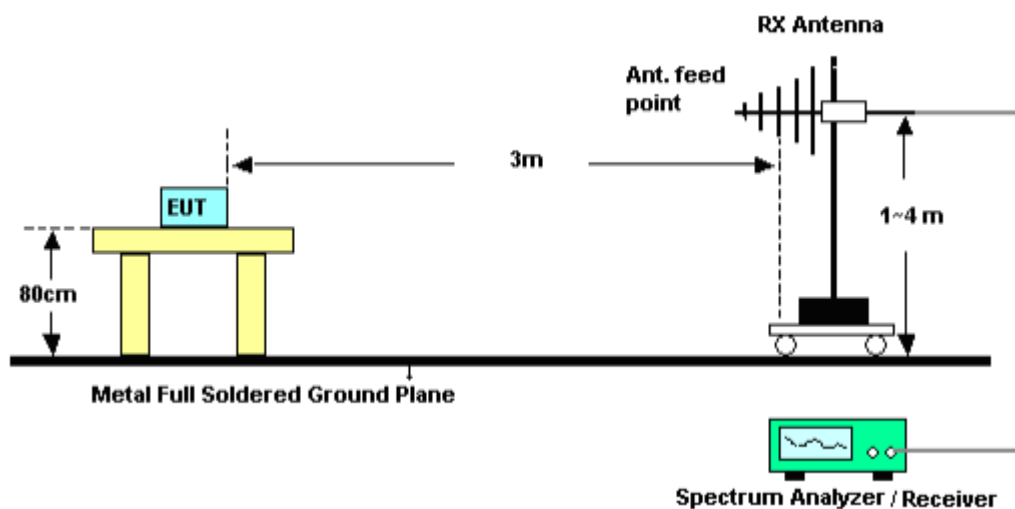


### 9.3. TEST SETUP

#### RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz

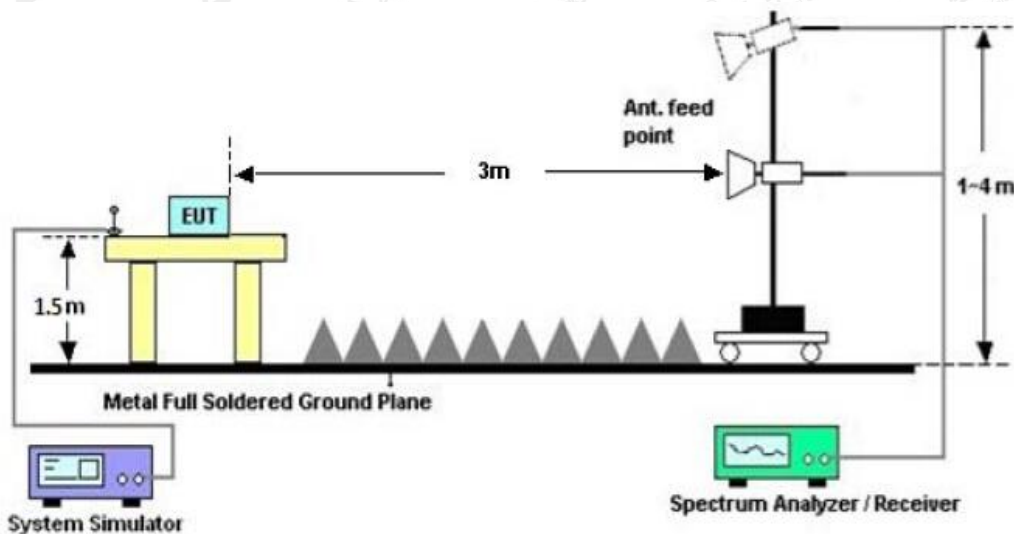


#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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# RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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#### 9.4. TEST RESULT

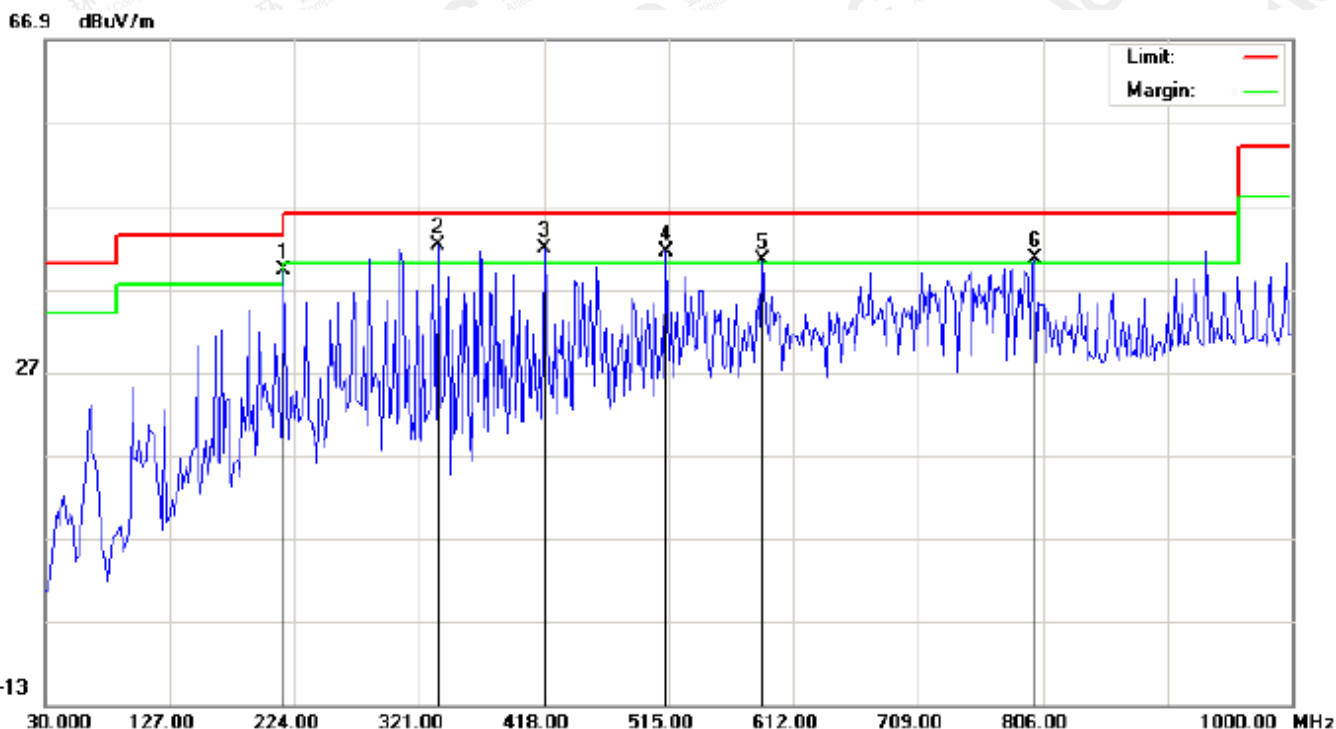
(Worst modulation: GFSK)

##### RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

##### RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



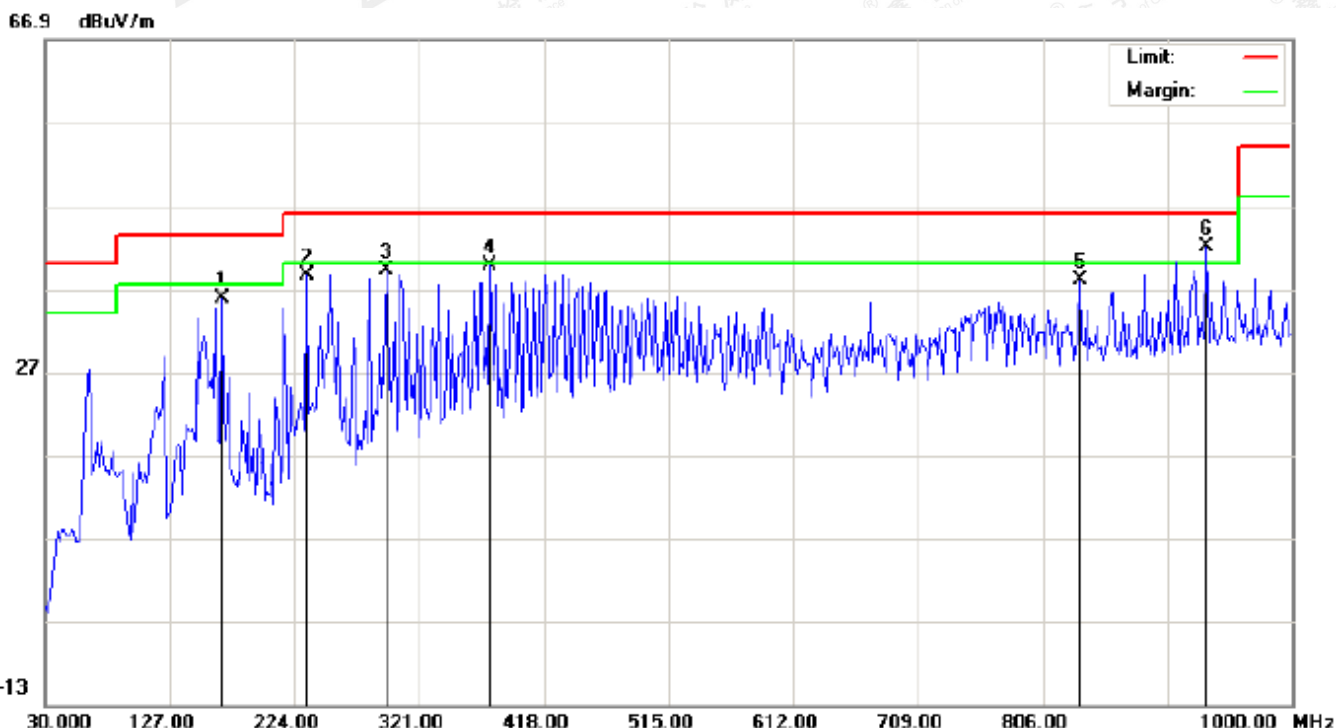
| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   | !  | 215.9165     | 28.84           | 10.38          | 39.22                 | 43.50           | -4.28      | peak     |                         |                           |         |
| 2   | *  | 335.5500     | 24.34           | 17.78          | 42.12                 | 46.00           | -3.88      | peak     |                         |                           |         |
| 3   | !  | 418.0000     | 22.13           | 19.62          | 41.75                 | 46.00           | -4.25      | peak     |                         |                           |         |
| 4   | !  | 513.3831     | 19.92           | 21.49          | 41.41                 | 46.00           | -4.59      | peak     |                         |                           |         |
| 5   | !  | 587.7500     | 17.03           | 23.42          | 40.45                 | 46.00           | -5.55      | peak     |                         |                           |         |
| 6   | !  | 799.5333     | 13.28           | 27.31          | 40.59                 | 46.00           | -5.41      | peak     |                         |                           |         |

**RESULT: PASS**

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over  | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB    |          | cm             | degree       |         |
| 1   |    | 167.4165 | 20.87   | 14.86  | 35.73       | 43.50  | -7.77 | peak     |                |              |         |
| 2   |    | 233.6999 | 26.27   | 12.30  | 38.57       | 46.00  | -7.43 | peak     |                |              |         |
| 3   |    | 295.1333 | 23.93   | 15.26  | 39.19       | 46.00  | -6.81 | peak     |                |              |         |
| 4   |    | 375.9667 | 20.81   | 18.91  | 39.72       | 46.00  | -6.28 | peak     |                |              |         |
| 5   |    | 835.1000 | 10.61   | 27.31  | 37.92       | 46.00  | -8.08 | peak     |                |              |         |
| 6   | *  | 933.7164 | 12.47   | 29.55  | 42.02       | 46.00  | -3.98 | peak     |                |              |         |

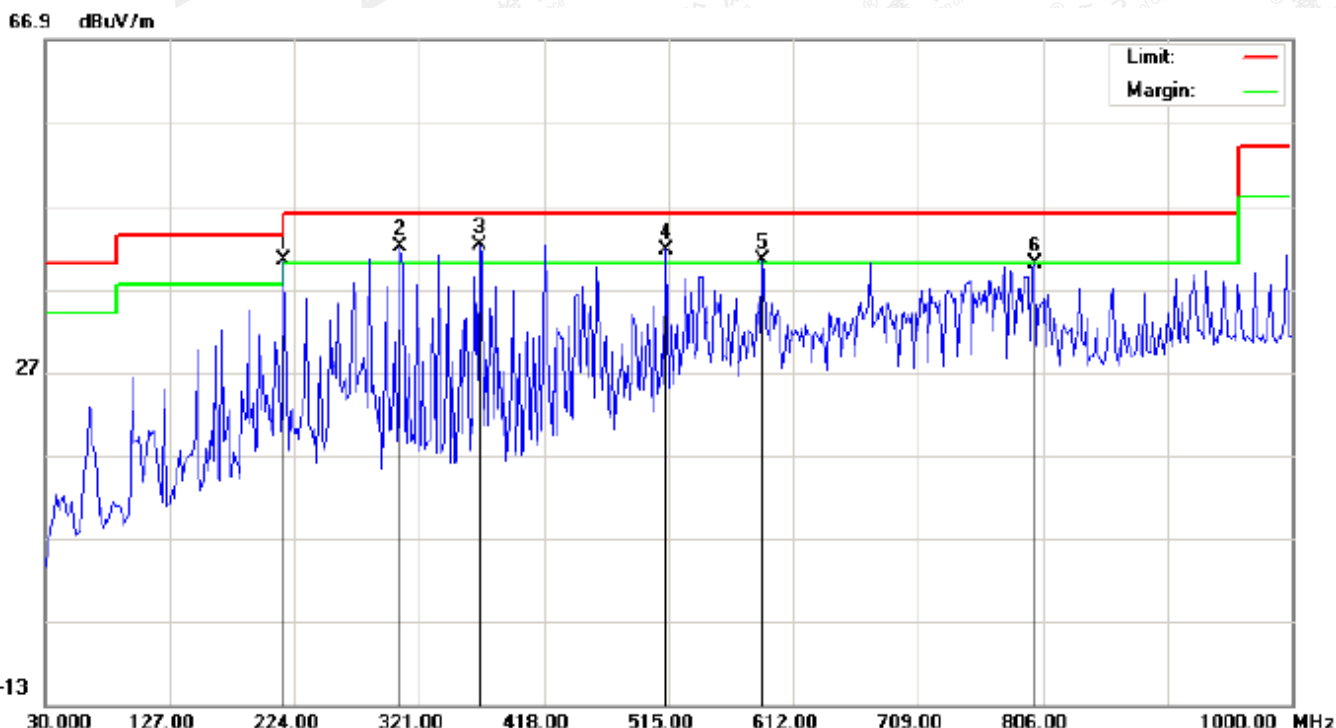
**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



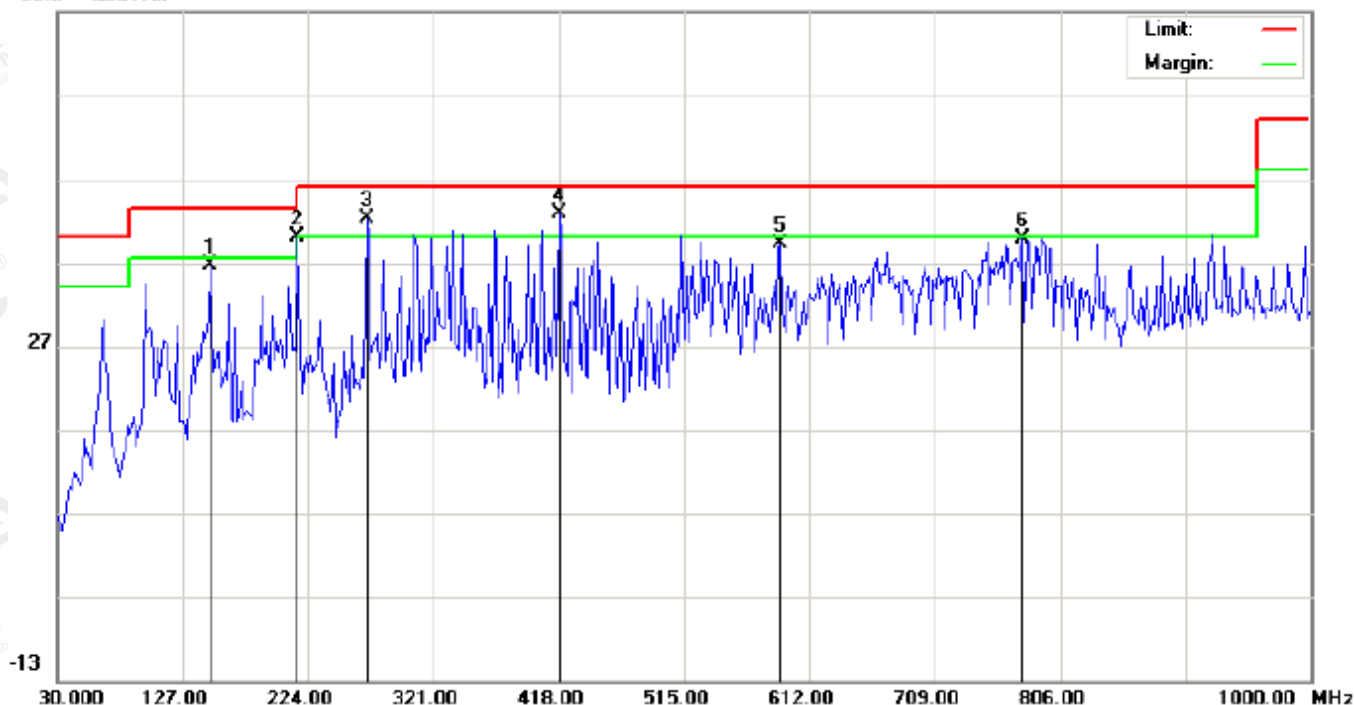
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over  | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB    |          | cm             | degree       |         |
| 1   | *  | 215.9165 | 30.11   | 10.38  | 40.49       | 43.50  | -3.01 | peak     |                |              |         |
| 2   | !  | 306.4499 | 26.13   | 15.84  | 41.97       | 46.00  | -4.03 | peak     |                |              |         |
| 3   | !  | 367.8833 | 23.37   | 18.86  | 42.23       | 46.00  | -3.77 | peak     |                |              |         |
| 4   | !  | 513.3831 | 20.21   | 21.49  | 41.70       | 46.00  | -4.30 | peak     |                |              |         |
| 5   | !  | 587.7500 | 17.06   | 23.42  | 40.48       | 46.00  | -5.52 | peak     |                |              |         |
| 6   | !  | 799.5333 | 12.70   | 27.31  | 40.01       | 46.00  | -5.99 | peak     |                |              |         |

**RESULT: PASS**

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL

66.9 dBuV/m



| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   |    | 148.0166     | 23.43           | 13.25          | 36.68                 | 43.50           | -6.82      | peak     |                         |                           |         |
| 2   | !  | 215.9165     | 29.58           | 10.38          | 39.96                 | 43.50           | -3.54      | peak     |                         |                           |         |
| 3   | !  | 269.2667     | 32.11           | 10.18          | 42.29                 | 46.00           | -3.71      | peak     |                         |                           |         |
| 4   | *  | 418.0000     | 23.25           | 19.62          | 42.87                 | 46.00           | -3.13      | peak     |                         |                           |         |
| 5   |    | 589.3667     | 15.66           | 23.46          | 39.12                 | 46.00           | -6.88      | peak     |                         |                           |         |
| 6   |    | 776.8999     | 12.85           | 27.00          | 39.85                 | 46.00           | -6.15      | peak     |                         |                           |         |

**RESULT: PASS**

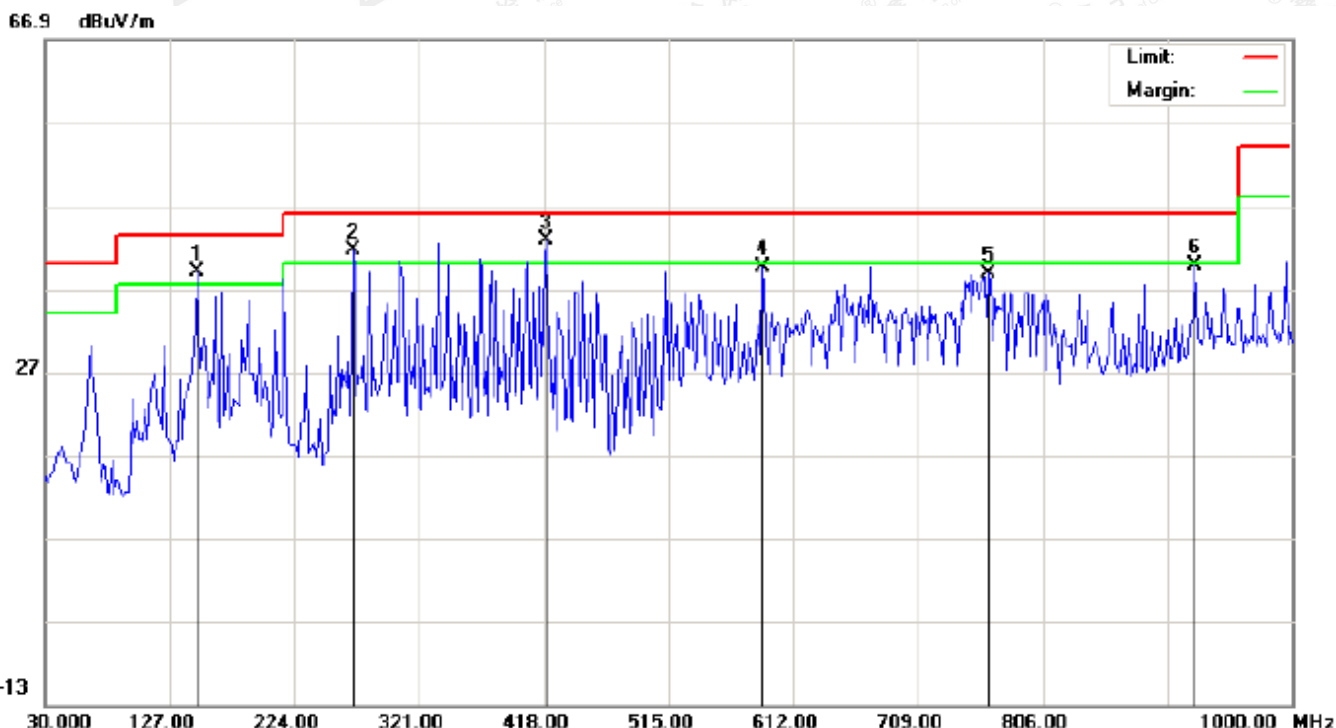
**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

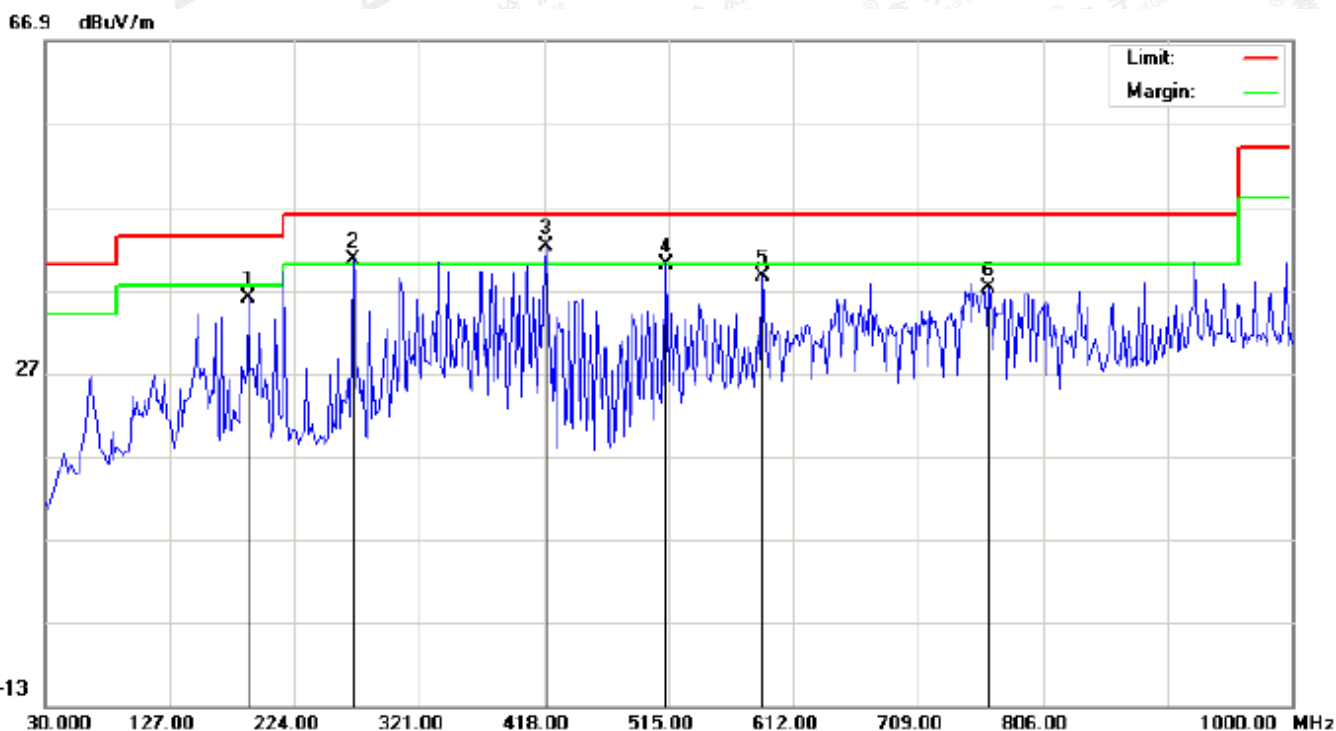


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over  | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB    |          | cm             | degree       |         |
| 1   | !  | 148.0166 | 25.81   | 13.25  | 39.06       | 43.50  | -4.44 | peak     |                |              |         |
| 2   | !  | 269.2667 | 31.34   | 10.18  | 41.52       | 46.00  | -4.48 | peak     |                |              |         |
| 3   | *  | 419.6166 | 23.05   | 19.67  | 42.72       | 46.00  | -3.28 | peak     |                |              |         |
| 4   |    | 587.7500 | 16.24   | 23.42  | 39.66       | 46.00  | -6.34 | peak     |                |              |         |
| 5   |    | 763.9664 | 11.98   | 26.82  | 38.80       | 46.00  | -7.20 | peak     |                |              |         |
| 6   |    | 924.0167 | 10.55   | 29.28  | 39.83       | 46.00  | -6.17 | peak     |                |              |         |

**RESULT: PASS**

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over  | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|-------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB    |          | cm             | degree       |         |
| 1   |    | 188.4333 | 24.59   | 11.46  | 36.05       | 43.50  | -7.45 | peak     |                |              |         |
| 2   | !  | 269.2667 | 30.34   | 10.18  | 40.52       | 46.00  | -5.48 | peak     |                |              |         |
| 3   | *  | 419.6166 | 22.55   | 19.67  | 42.22       | 46.00  | -3.78 | peak     |                |              |         |
| 4   |    | 513.3831 | 18.50   | 21.49  | 39.99       | 46.00  | -6.01 | peak     |                |              |         |
| 5   |    | 587.7500 | 15.24   | 23.42  | 38.66       | 46.00  | -7.34 | peak     |                |              |         |
| 6   |    | 763.9664 | 10.48   | 26.82  | 37.30       | 46.00  | -8.70 | peak     |                |              |         |

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

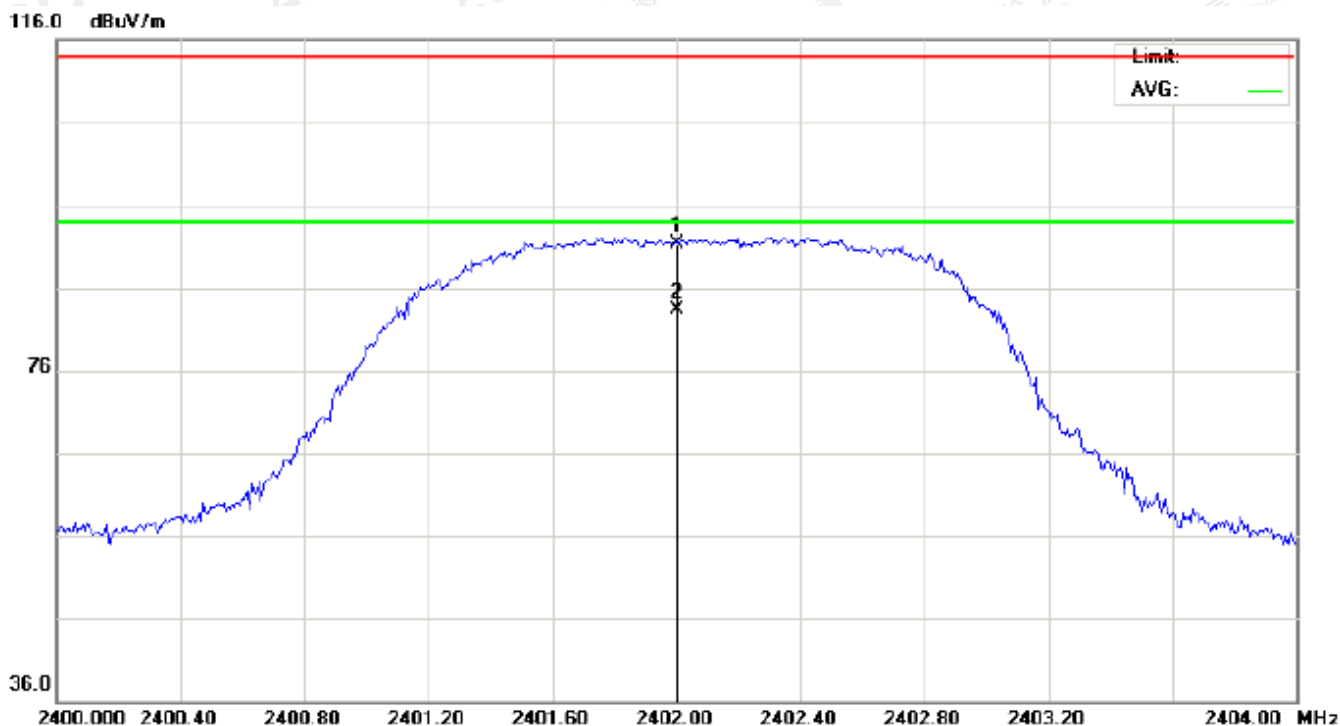
2. The "Factor" value can be calculated automatically by software of measurement system.

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**RADIATED EMISSION ABOVE 1GHz**  
**(Worst modulation: GFSK)**

**For Fundamental**

**RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL**



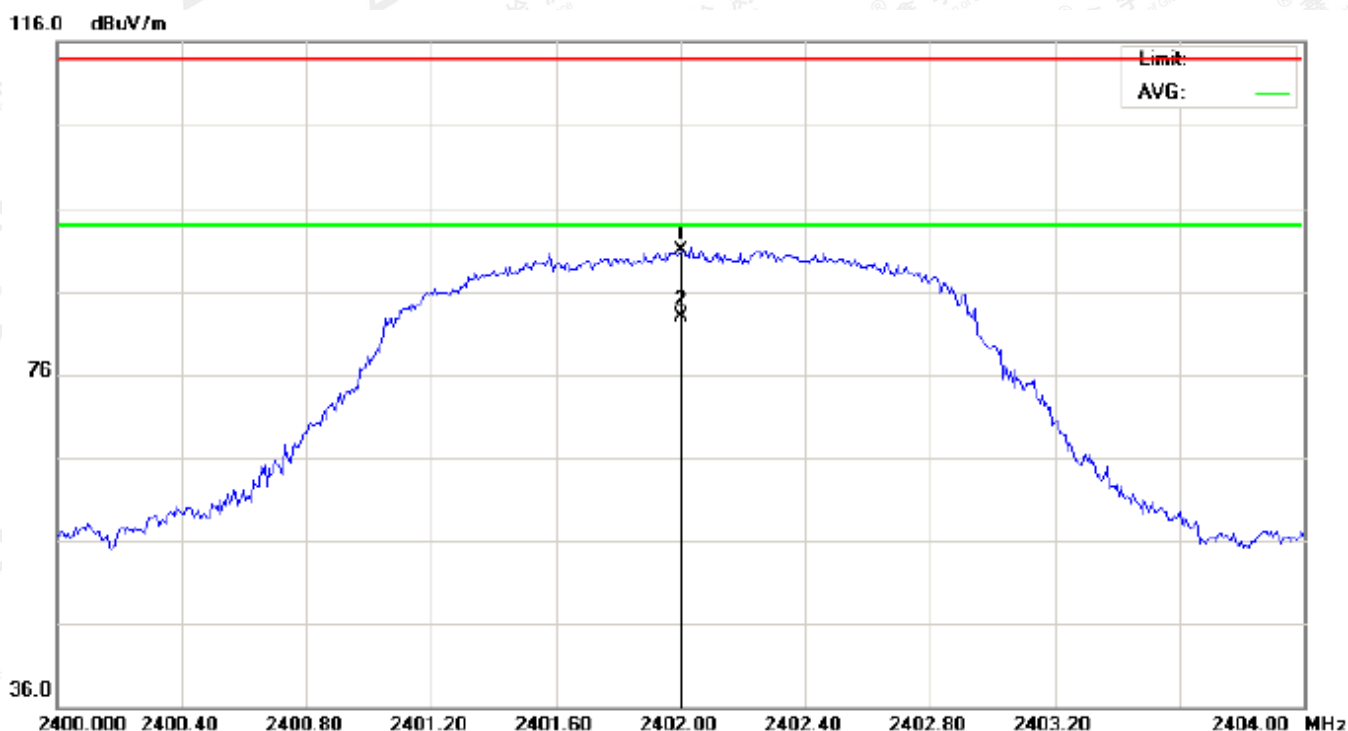
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2402.000 | 81.00   | 10.32  | 91.32       | 114.00 | -22.68 | peak     |                |              |         |
| 2   | *  | 2402.000 | 73.05   | 10.32  | 83.37       | 94.00  | -10.63 | AVG      | 100            | 291          |         |

**RESULT: PASS**

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL

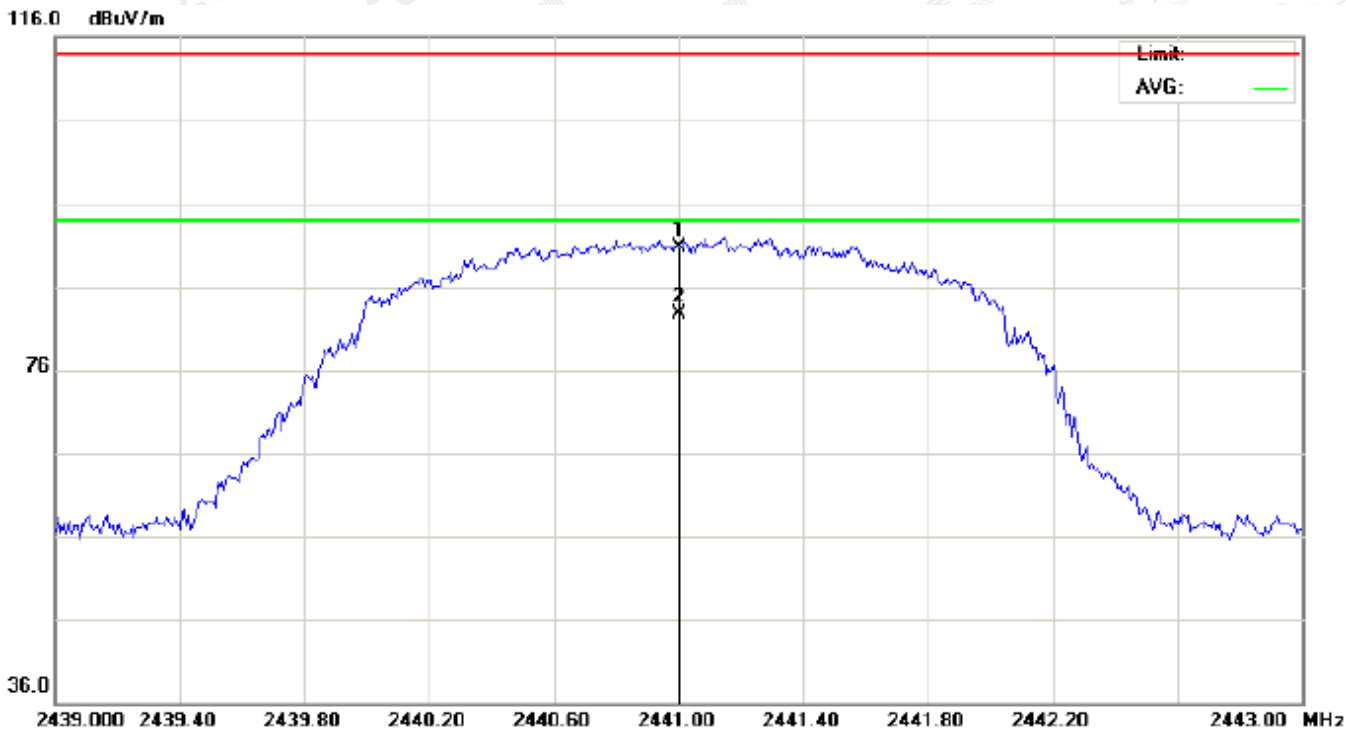


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2402.000 | 80.53   | 10.32  | 90.85       | 114.00 | -23.15 | peak     |                |              |         |
| 2   | *  | 2402.000 | 72.56   | 10.32  | 82.88       | 94.00  | -11.12 | AVG      | 100            | 11           |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL

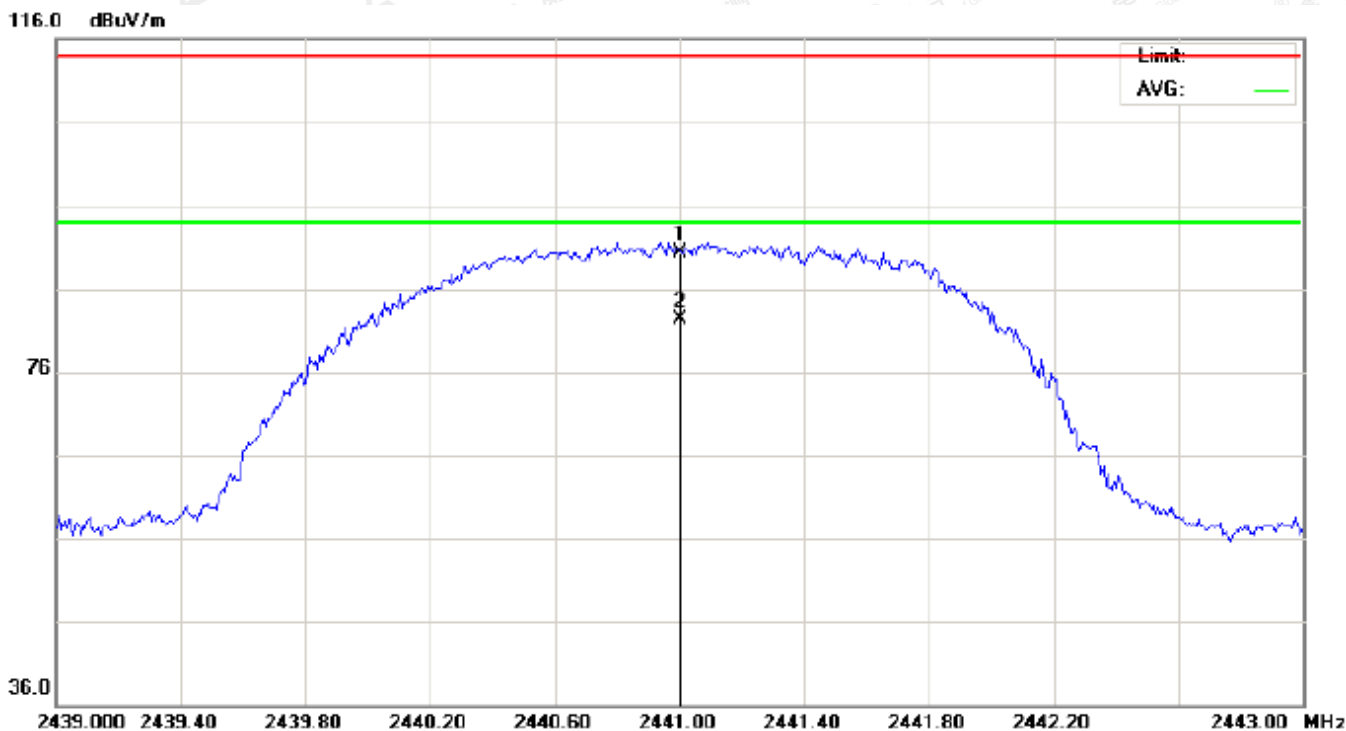


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2441.000 | 80.35   | 10.36  | 90.71       | 114.00 | -23.29 | peak     |                |              |         |
| 2   | *  | 2441.000 | 72.39   | 10.36  | 82.75       | 94.00  | -11.25 | AVG      | 100            | 289          |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



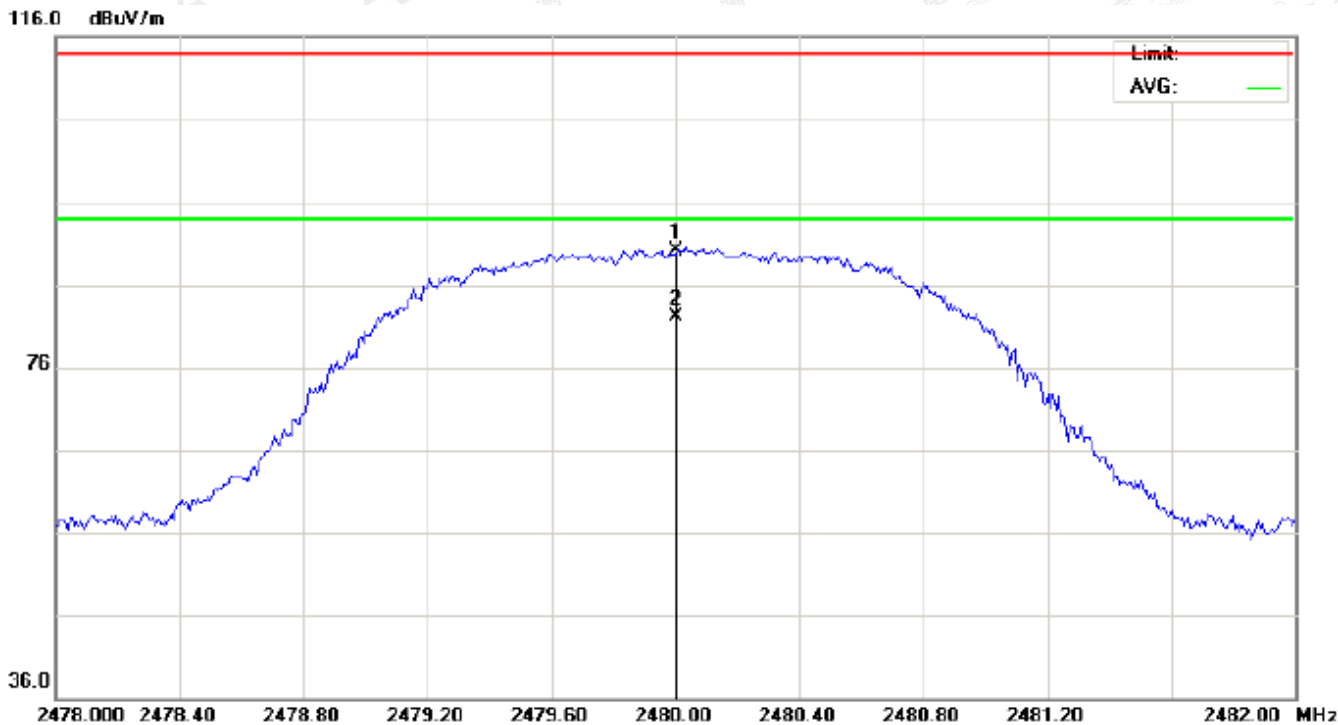
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2441.000 | 79.85   | 10.36  | 90.21       | 114.00 | -23.79 | peak     |                |              |         |
| 2   | *  | 2441.000 | 71.93   | 10.36  | 82.29       | 94.00  | -11.71 | AVG      | 100            | 15           |         |

**RESULT: PASS**

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL

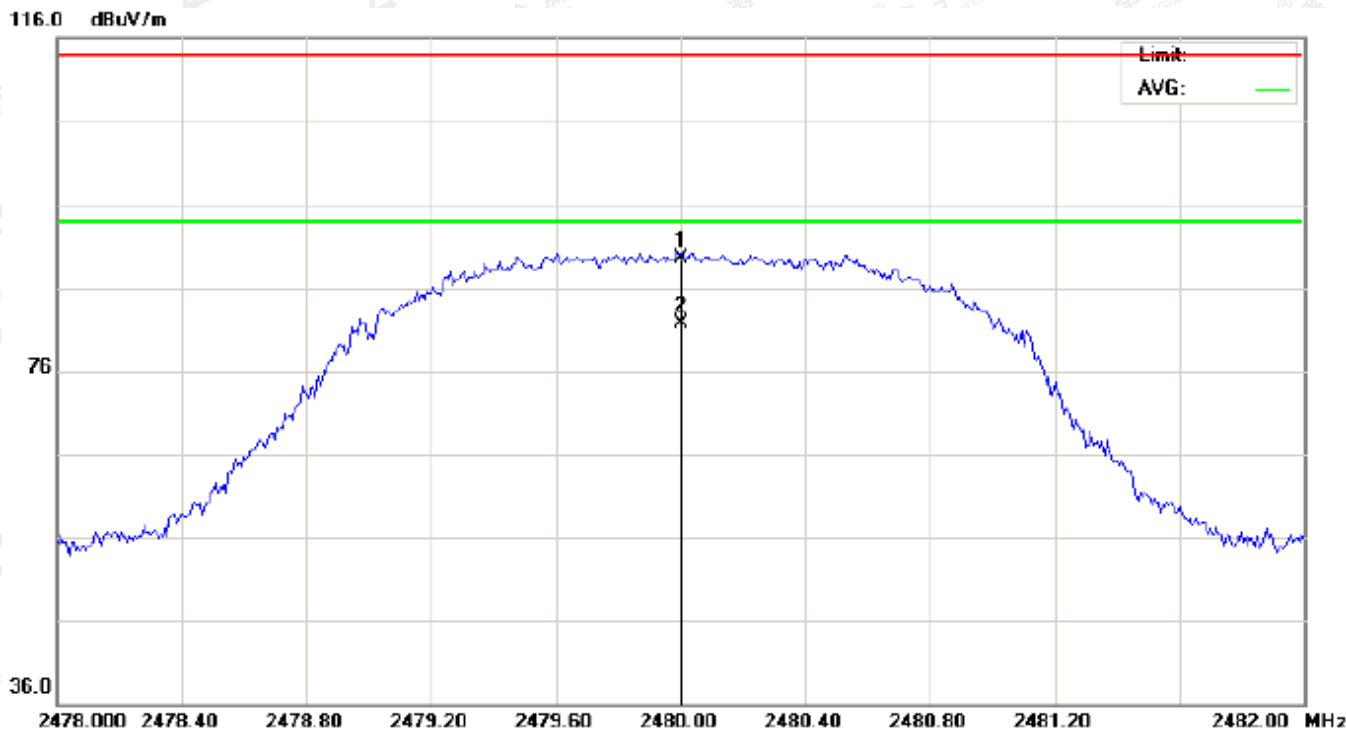


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2480.000 | 79.62   | 10.41  | 90.03       | 114.00 | -23.97 | peak     |                |              |         |
| 2   | *  | 2480.000 | 71.65   | 10.41  | 82.06       | 94.00  | -11.94 | AVG      | 100            | 288          |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2480.000 | 79.14   | 10.41  | 89.55       | 114.00 | -24.45 | peak     |                |              |         |
| 2   | *  | 2480.000 | 71.21   | 10.41  | 81.62       | 94.00  | -12.38 | AVG      | 100            | 29           |         |

**RESULT: PASS**

**Note:** Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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### Field strength of the fundamental signal

#### 1Mbps Result:

##### Peak value

| Frequency | Reading Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|---------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)        | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 81.00         | 10.32  | 91.32       | 114      | -22.68 | Horizontal   |
| 2402      | 80.53         | 10.32  | 90.85       | 114      | -23.15 | Vertical     |
| 2441      | 80.35         | 10.36  | 90.71       | 114      | -23.29 | Horizontal   |
| 2441      | 79.85         | 10.36  | 90.21       | 114      | -23.79 | Vertical     |
| 2480      | 79.62         | 10.41  | 90.03       | 114      | -23.97 | Horizontal   |
| 2480      | 79.14         | 10.41  | 89.55       | 114      | -24.45 | Vertical     |

##### Average value

| Frequency | Reading Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|---------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)        | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 73.05         | 10.32  | 83.37       | 94       | -10.63 | Horizontal   |
| 2402      | 72.56         | 10.32  | 82.88       | 94       | -11.12 | Vertical     |
| 2441      | 72.39         | 10.36  | 82.75       | 94       | -11.25 | Horizontal   |
| 2441      | 71.93         | 10.36  | 82.29       | 94       | -11.71 | Vertical     |
| 2480      | 71.65         | 10.41  | 82.06       | 94       | -11.94 | Horizontal   |
| 2480      | 71.21         | 10.41  | 81.62       | 94       | -12.38 | Vertical     |

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**2Mbps Result:**
**Peak value**

| Frequency | Reading Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|---------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)        | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 80.57         | 10.32  | 90.89       | 114      | -23.11 | Horizontal   |
| 2402      | 80.15         | 10.32  | 90.47       | 114      | -23.53 | Vertical     |
| 2441      | 79.96         | 10.36  | 90.32       | 114      | -23.68 | Horizontal   |
| 2441      | 79.51         | 10.36  | 89.87       | 114      | -24.13 | Vertical     |
| 2480      | 79.22         | 10.41  | 89.63       | 114      | -24.37 | Horizontal   |
| 2480      | 78.73         | 10.41  | 89.14       | 114      | -24.86 | Vertical     |

**Average value**

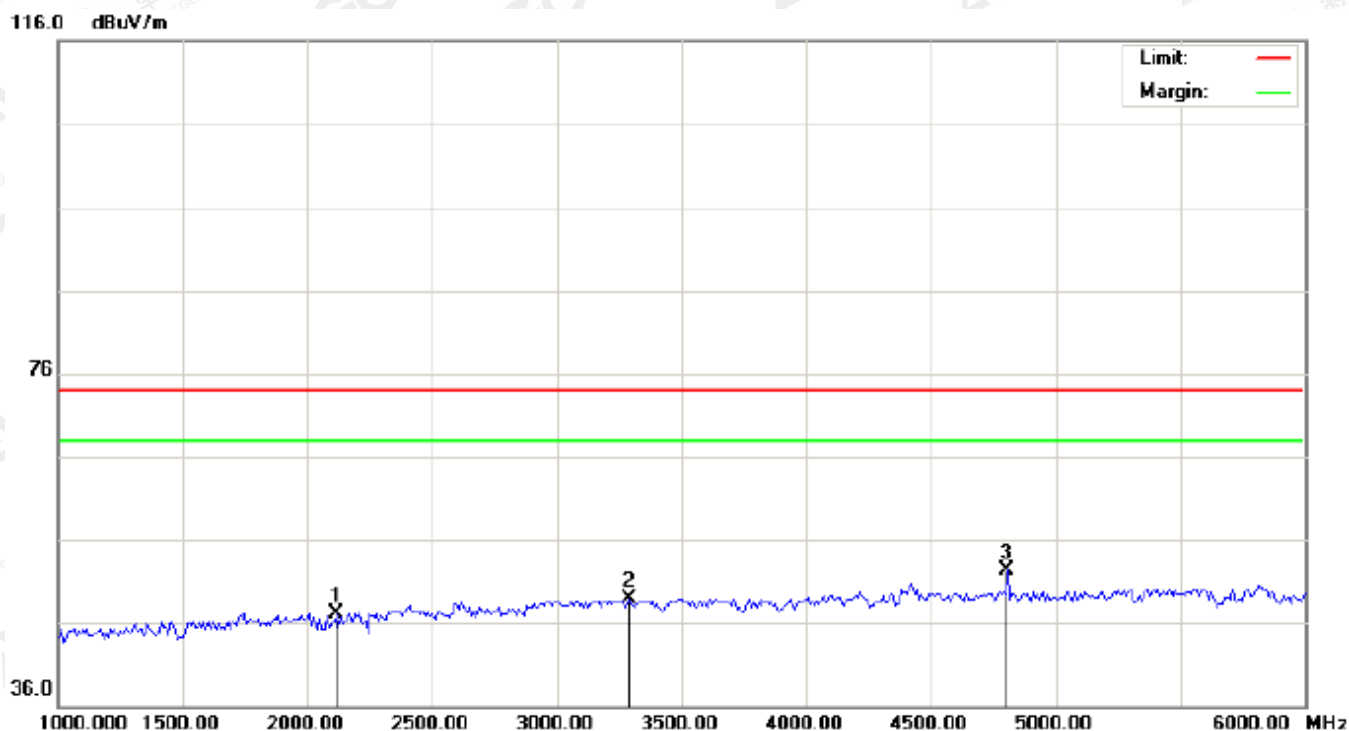
| Frequency | Reading Level | Factor | Measurement | Limit    | Over   | Antenna      |
|-----------|---------------|--------|-------------|----------|--------|--------------|
| (MHz)     | (dBuv)        | (dB/m) | (dBuv/m)    | (dBuv/m) | (dB)   | Polarization |
| 2402      | 72.68         | 10.32  | 83.00       | 94       | -11.00 | Horizontal   |
| 2402      | 72.18         | 10.32  | 82.50       | 94       | -11.50 | Vertical     |
| 2441      | 71.87         | 10.36  | 82.23       | 94       | -11.77 | Horizontal   |
| 2441      | 71.45         | 10.36  | 81.81       | 94       | -12.19 | Vertical     |
| 2480      | 71.28         | 10.41  | 81.69       | 94       | -12.31 | Horizontal   |
| 2480      | 70.88         | 10.41  | 81.29       | 94       | -12.71 | Vertical     |

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(Worst modulation: GFSK)

For Harmonics

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL

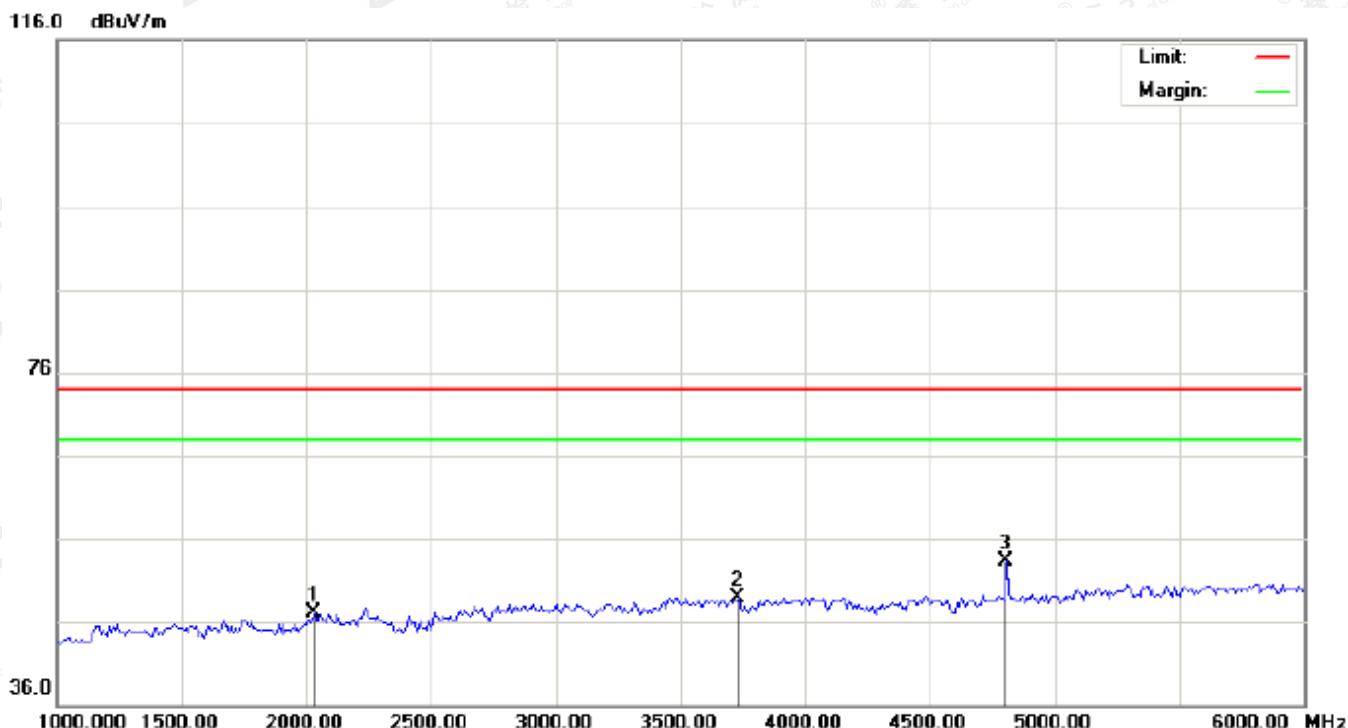


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2116.667 | 37.02   | 10.01  | 47.03       | 74.00  | -26.97 | peak     |                |              |         |
| 2   |    | 3291.667 | 36.91   | 11.91  | 48.82       | 74.00  | -25.18 | peak     |                |              |         |
| 3   | *  | 4804.000 | 44.71   | 7.69   | 52.40       | 74.00  | -21.60 | peak     |                |              |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



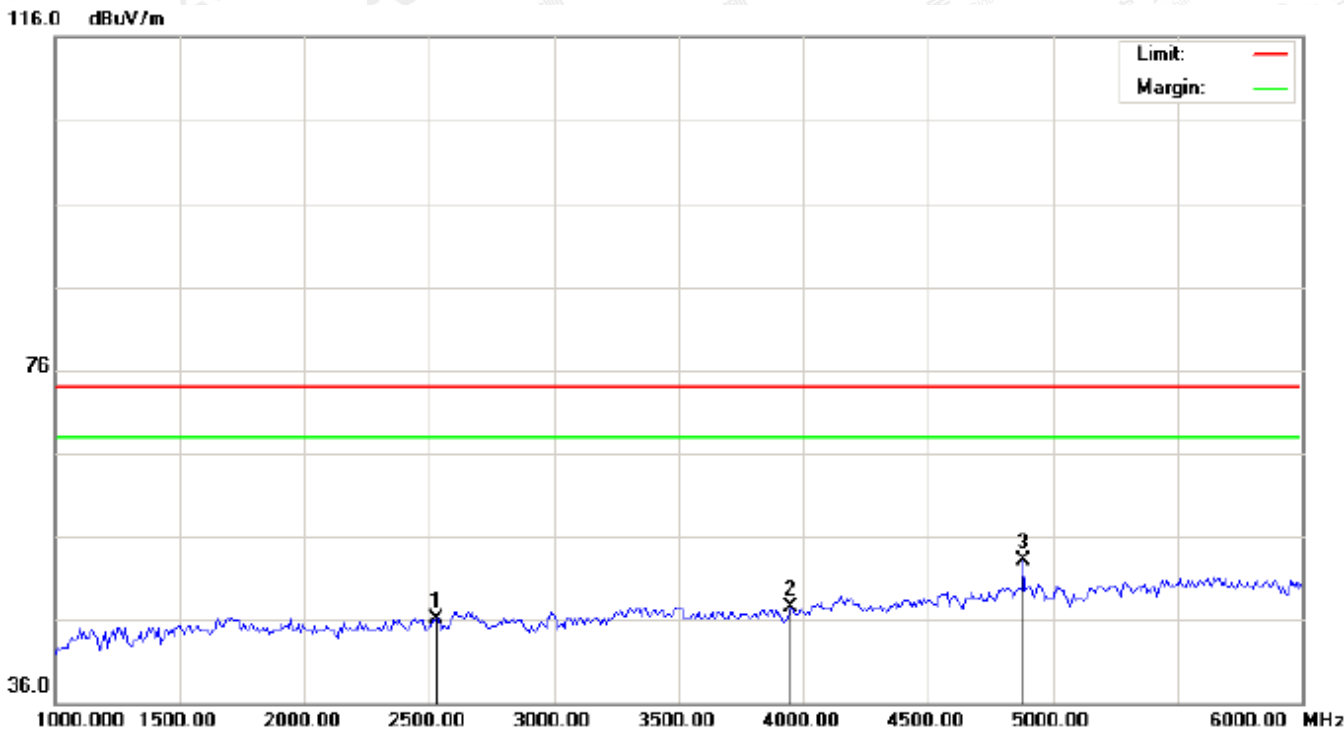
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2033.333 | 37.09   | 9.92   | 47.01       | 74.00  | -26.99 | peak     |                |              |         |
| 2   |    | 3733.333 | 35.34   | 13.55  | 48.89       | 74.00  | -25.11 | peak     |                |              |         |
| 3   | *  | 4804.000 | 45.55   | 7.69   | 53.24       | 74.00  | -20.76 | peak     |                |              |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2533.333 | 35.68   | 10.51  | 46.19       | 74.00  | -27.81 | peak     |                |              |         |
| 2   |    | 3950.000 | 32.68   | 14.88  | 47.56       | 74.00  | -26.44 | peak     |                |              |         |
| 3   | *  | 4882.000 | 45.16   | 7.89   | 53.05       | 74.00  | -20.95 | peak     |                |              |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL

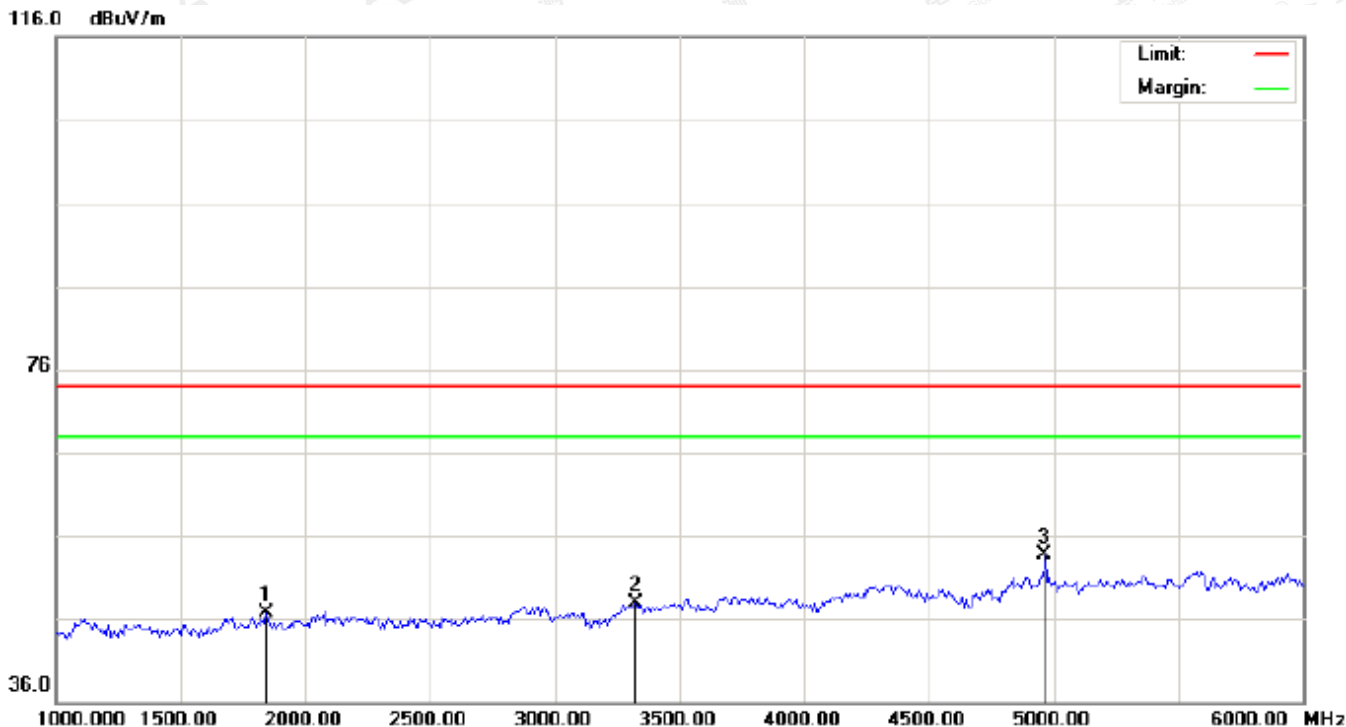


| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   |    | 2433.333     | 36.05           | 10.36          | 46.41                 | 74.00           | -27.59     | peak     |                         |                           |         |
| 2   |    | 3883.333     | 33.43           | 14.47          | 47.90                 | 74.00           | -26.10     | peak     |                         |                           |         |
| 3   | *  | 4882.000     | 43.89           | 7.89           | 51.78                 | 74.00           | -22.22     | peak     |                         |                           |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



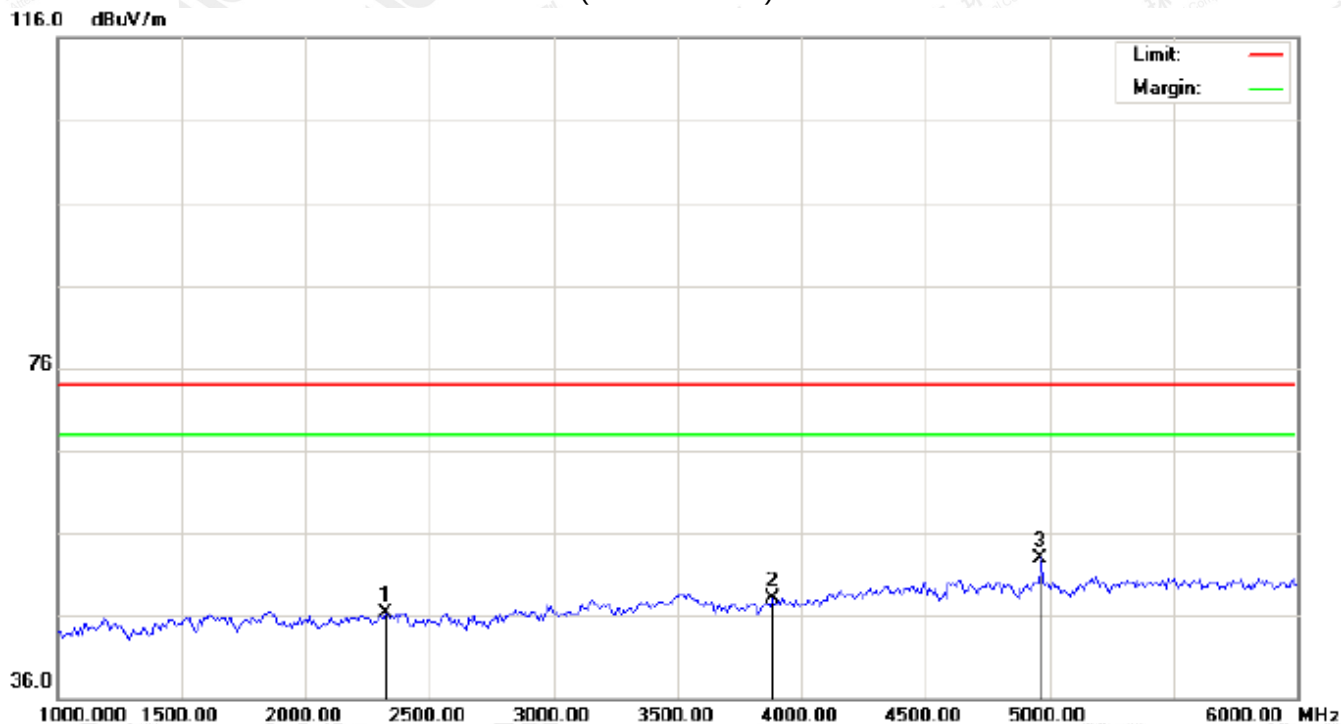
| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 1841.667 | 38.57   | 8.21   | 46.78       | 74.00  | -27.22 | peak     |                |              |         |
| 2   |    | 3325.000 | 36.02   | 11.95  | 47.97       | 74.00  | -26.03 | peak     |                |              |         |
| 3   | *  | 4960.000 | 45.60   | 8.09   | 53.69       | 74.00  | -20.31 | peak     |                |              |         |

RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   |    | 2325.000     | 36.14           | 10.24          | 46.38                 | 74.00           | -27.62     | peak     |                         |                           |         |
| 2   |    | 3883.333     | 33.56           | 14.47          | 48.03                 | 74.00           | -25.97     | peak     |                         |                           |         |
| 3   | *  | 4960.000     | 44.91           | 8.09           | 53.00                 | 74.00           | -21.00     | peak     |                         |                           |         |

**RESULT: PASS**

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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## 10. BAND EDGE EMISSION

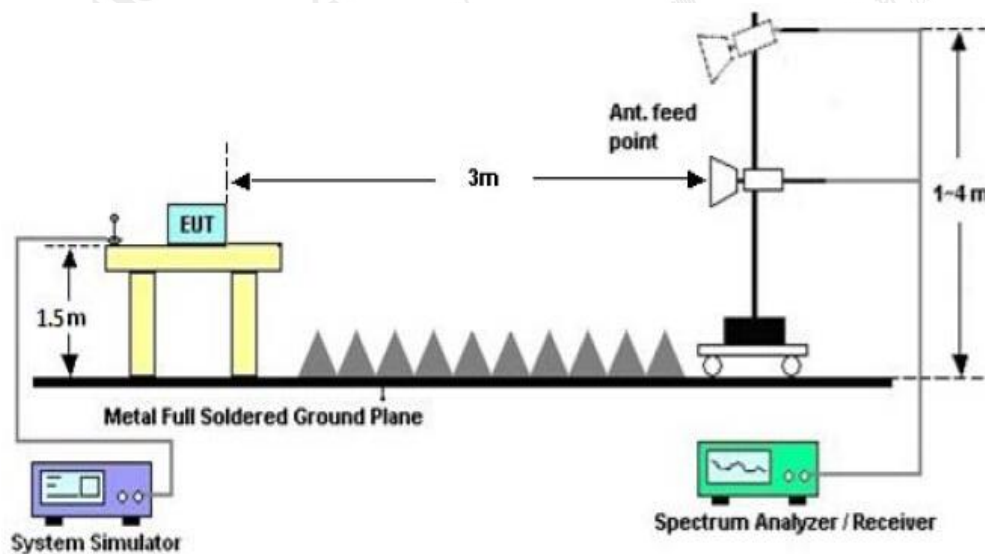
### 10.1. MEASUREMENT PROCEDURE

1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

| Start frequency(MHz) | Stop frequency(MHz) |
|----------------------|---------------------|
| 2200                 | 2405                |
| 2478                 | 2500                |

### 10.2 TEST SETUP

RADIATED EMISSION TEST SETUP

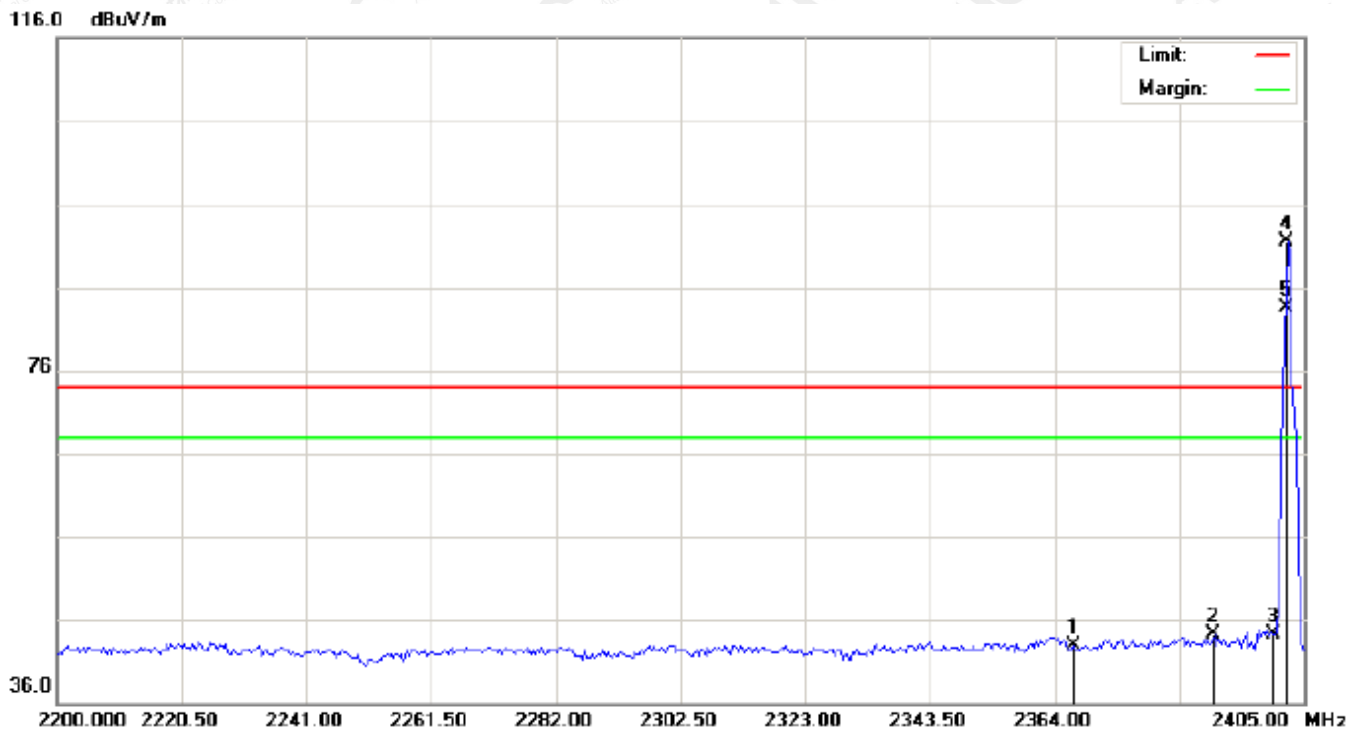


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### 10.3 RADIATED TEST RESULT

(Worst modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

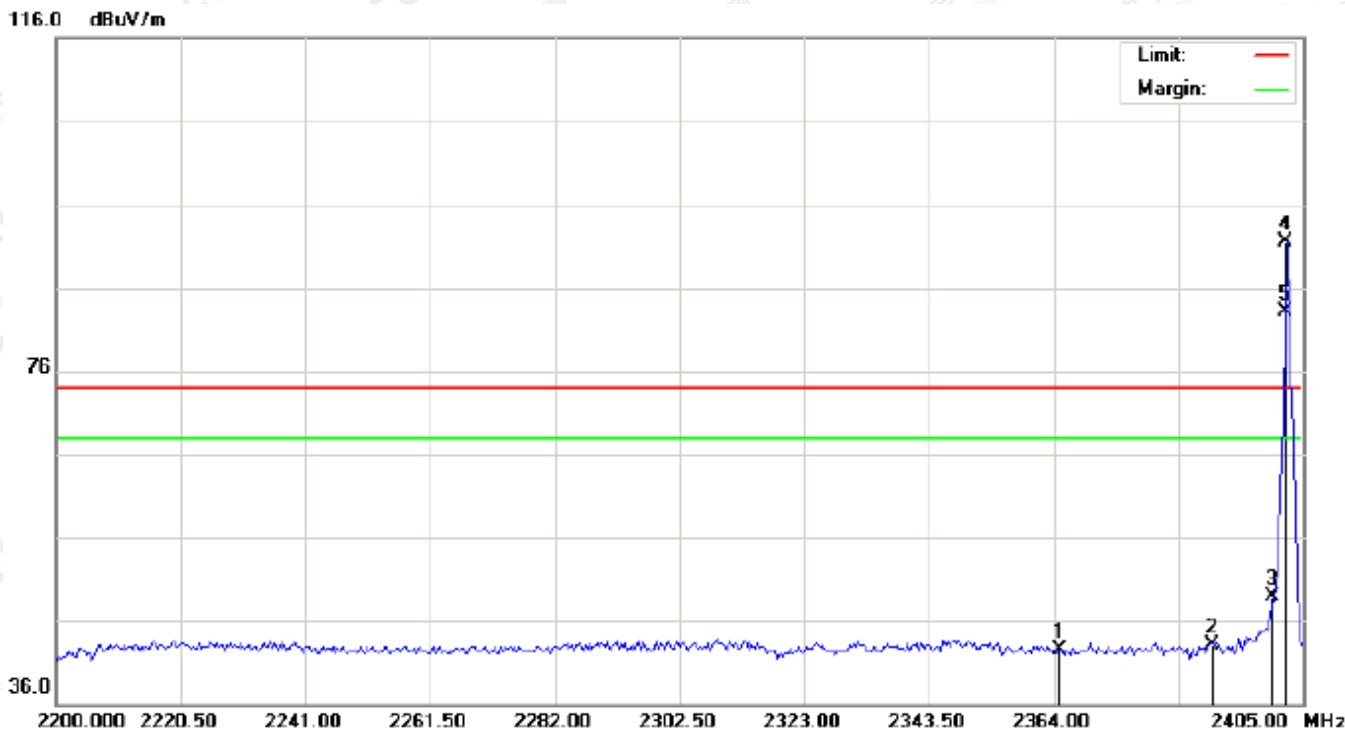


| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   |    | 2367.075     | 32.61           | 10.28          | 42.89                 | 74.00           | -31.11     | peak     |                         |                           |         |
| 2   |    | 2390.000     | 34.00           | 10.31          | 44.31                 | 74.00           | -29.69     | peak     |                         |                           |         |
| 3   |    | 2400.000     | 33.97           | 10.32          | 44.29                 | 74.00           | -29.71     | peak     |                         |                           |         |
| 4   | *  | 2402.000     | 81.22           | 10.32          | 91.54                 | 74.00           | 17.54      | peak     |                         |                           |         |
| 5   | X  | 2402.000     | 73.26           | 10.32          | 83.58                 | 74.00           | 9.58       | AVG      | 100                     | 285                       |         |

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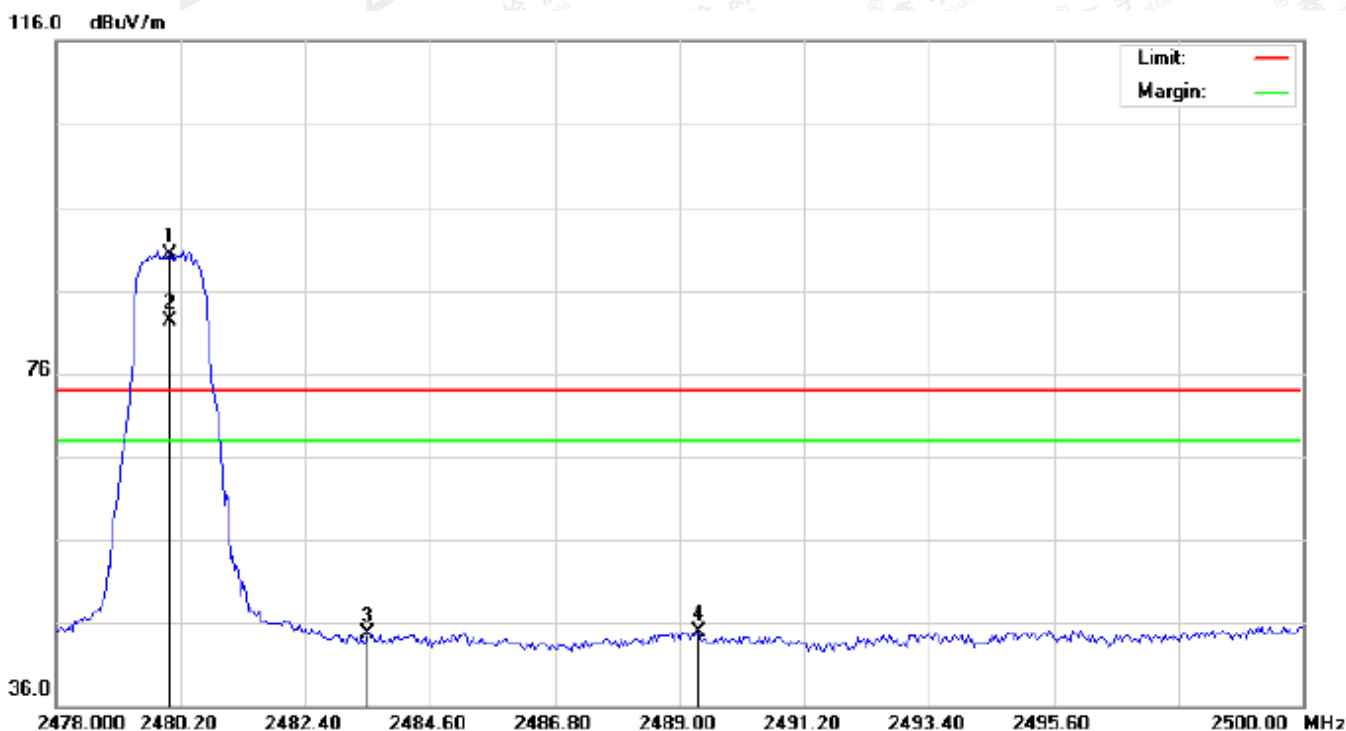
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2365.025 | 32.22   | 10.28  | 42.50       | 74.00  | -31.50 | peak     |                |              |         |
| 2   |    | 2390.000 | 32.71   | 10.31  | 43.02       | 74.00  | -30.98 | peak     |                |              |         |
| 3   |    | 2400.000 | 38.56   | 10.32  | 48.88       | 74.00  | -25.12 | peak     |                |              |         |
| 4   | *  | 2402.000 | 81.09   | 10.32  | 91.41       | 74.00  | 17.41  | peak     |                |              |         |
| 5   | X  | 2402.000 | 72.80   | 10.32  | 83.12       | 74.00  | 9.12   | AVG      | 100            | 23           |         |

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | *  | 2480.000 | 79.87   | 10.41  | 90.28       | 74.00  | 16.28  | peak     |                |              |         |
| 2   | X  | 2480.000 | 71.90   | 10.41  | 82.31       | 74.00  | 8.31   | AVG      | 100            | 283          |         |
| 3   |    | 2483.500 | 34.19   | 10.41  | 44.60       | 74.00  | -29.40 | peak     |                |              |         |
| 4   |    | 2489.330 | 34.46   | 10.42  | 44.88       | 74.00  | -29.12 | peak     |                |              |         |

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



| No. | Mk | Freq.<br>MHz | Reading<br>dBuV | Factor<br>dB/m | Measurement<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|----|--------------|-----------------|----------------|-----------------------|-----------------|------------|----------|-------------------------|---------------------------|---------|
| 1   | *  | 2480.000     | 79.43           | 10.41          | 89.84                 | 74.00           | 15.84      | peak     |                         |                           |         |
| 2   | X  | 2480.000     | 71.52           | 10.41          | 81.93                 | 74.00           | 7.93       | AVG      | 100                     | 19                        |         |
| 3   |    | 2483.500     | 34.76           | 10.41          | 45.17                 | 74.00           | -28.83     | peak     |                         |                           |         |
| 4   |    | 2485.957     | 34.48           | 10.41          | 44.89                 | 74.00           | -29.11     | peak     |                         |                           |         |

**RESULT: PASS**

**Note:** Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

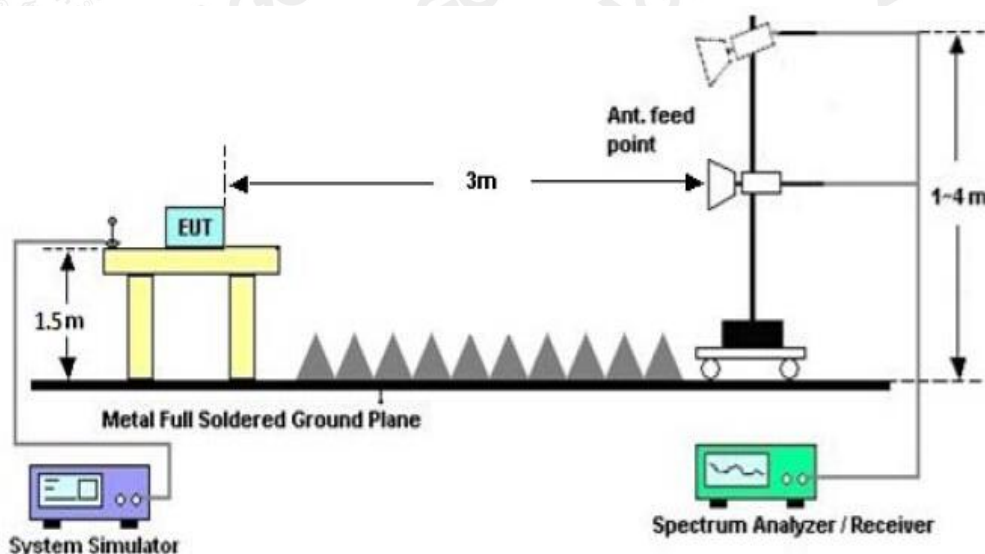


## 11. 20DB BANDWIDTH

### 11.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  3RBW; Sweep = auto; Detector function = peak
3. Set SPA Trace 1 Max hold, then View.

### 11.2. TEST SET-UP



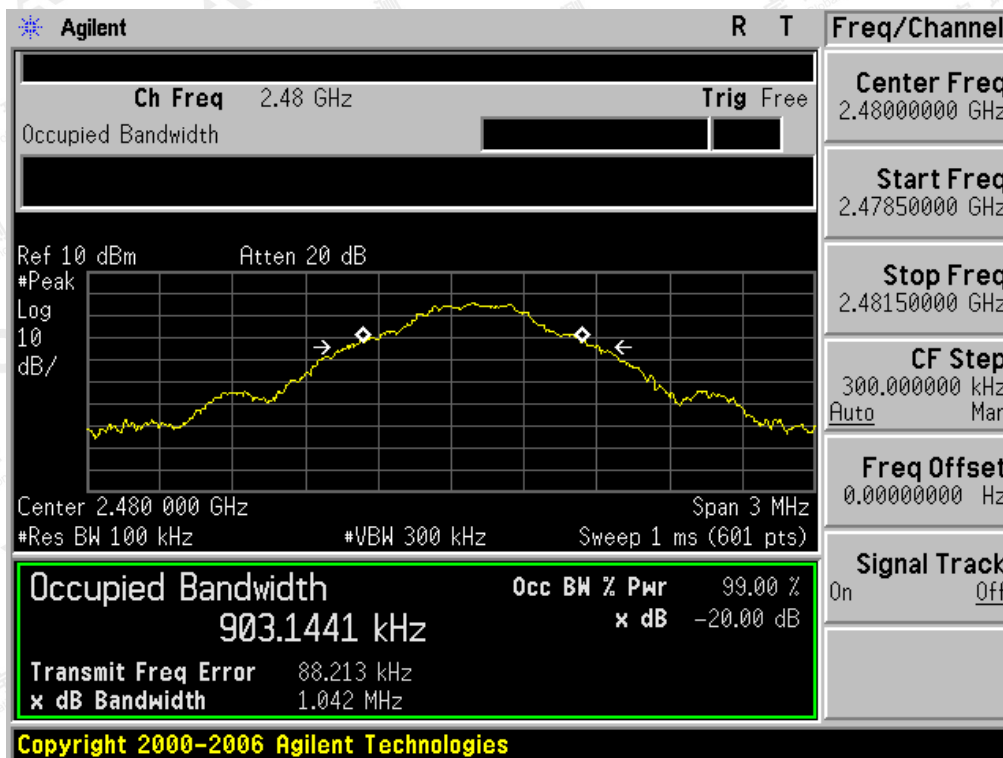
### 11.3. LIMITS AND MEASUREMENT RESULTS

| BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT |                    |              |               |        |
|-----------------------------------------------|--------------------|--------------|---------------|--------|
| Applicable Limits                             | Measurement Result |              |               |        |
|                                               | Test Data (MHz)    |              |               | Result |
|                                               |                    | 99%OBW (MHz) | -20dB BW(MHz) |        |
| N/A                                           | Low Channel        | 0.908        | 1.070         | PASS   |
|                                               | Middle Channel     | 0.911        | 1.023         | PASS   |
|                                               | High Channel       | 0.903        | 1.042         | PASS   |

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

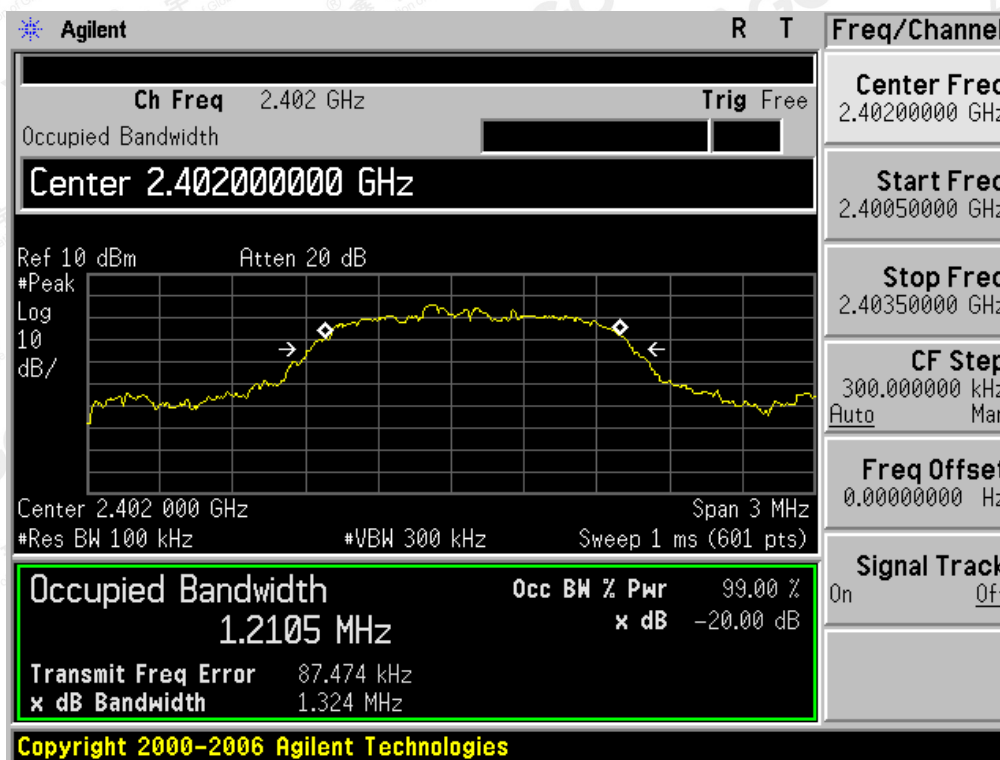


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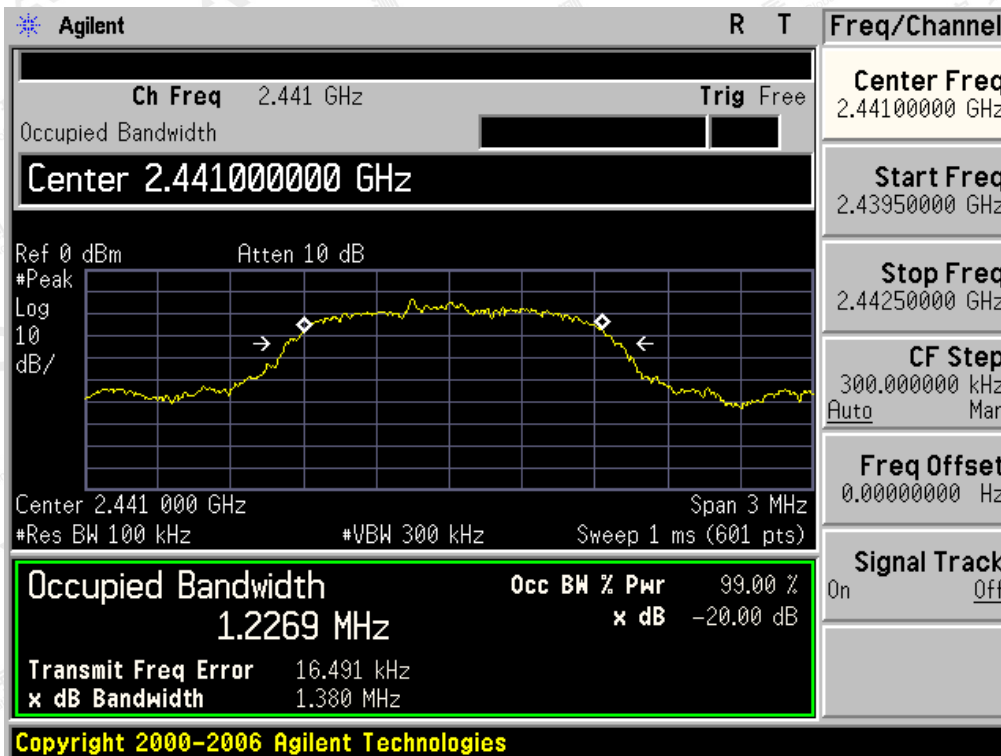
| BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT |                    |              |               |        |
|-----------------------------------------------|--------------------|--------------|---------------|--------|
| Applicable Limits                             | Measurement Result |              |               |        |
|                                               | Test Data (MHz)    |              |               | Result |
|                                               |                    | 99%OBW (MHz) | -20dB BW(MHz) |        |
| N/A                                           | Low Channel        | 1.211        | 1.324         | PASS   |
|                                               | Middle Channel     | 1.227        | 1.380         | PASS   |
|                                               | High Channel       | 1.220        | 1.364         | PASS   |

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

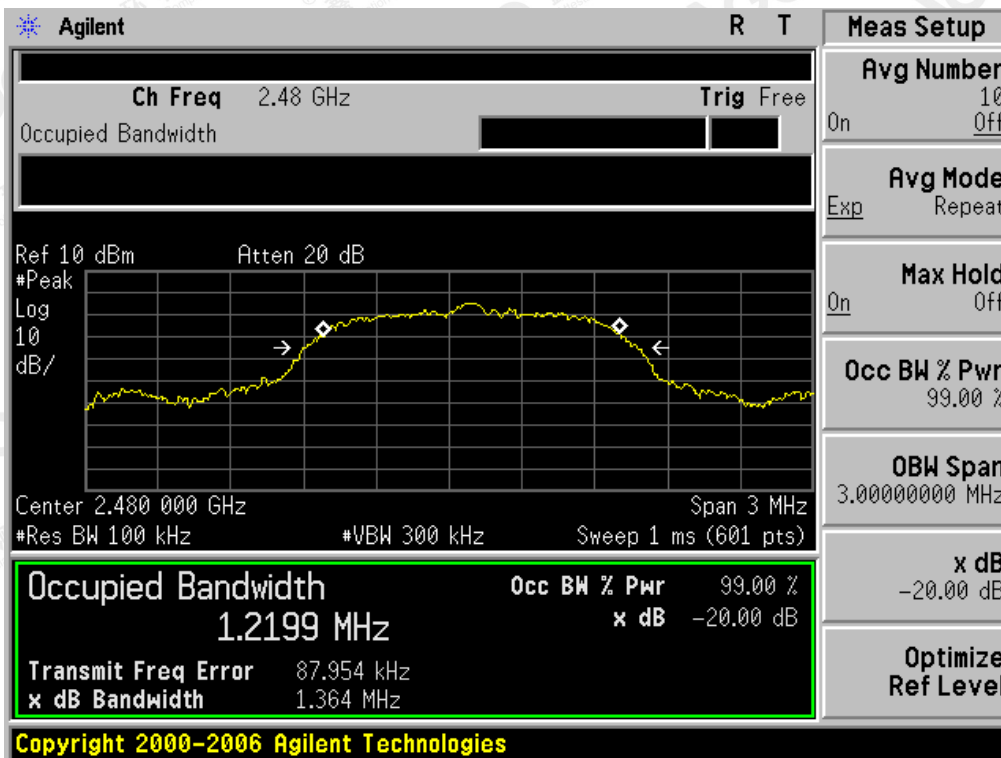


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 12. FCC LINE CONDUCTED EMISSION TEST

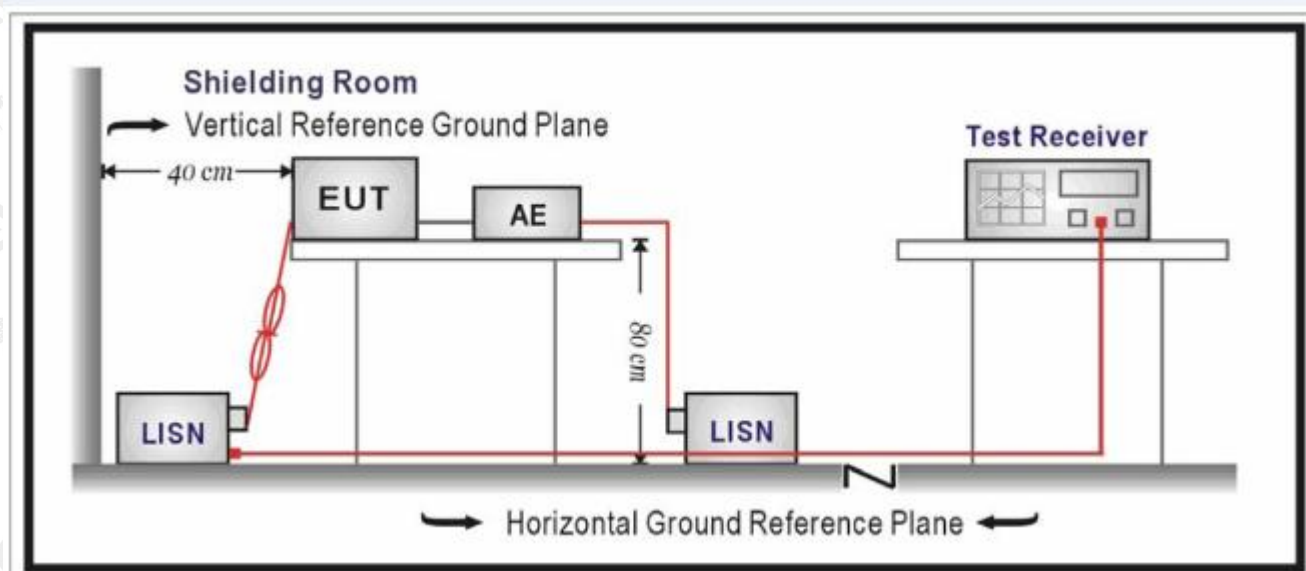
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P.( dBuV)             | Average( dBuV) |
| 150kHz~500kHz | 66-56                   | 56-46          |
| 500kHz~5MHz   | 56                      | 46             |
| 5MHz~30MHz    | 60                      | 50             |

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When 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 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The 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.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

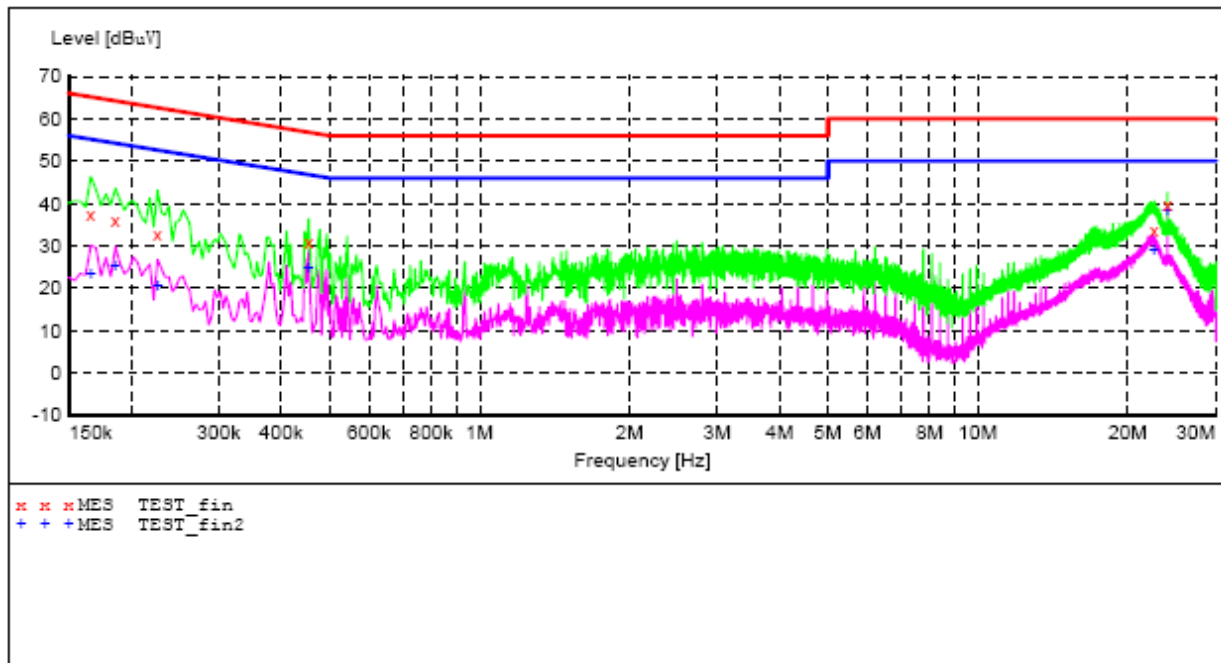
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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## 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

Line Conducted Emission Test Line 1-L



### MEASUREMENT RESULT:

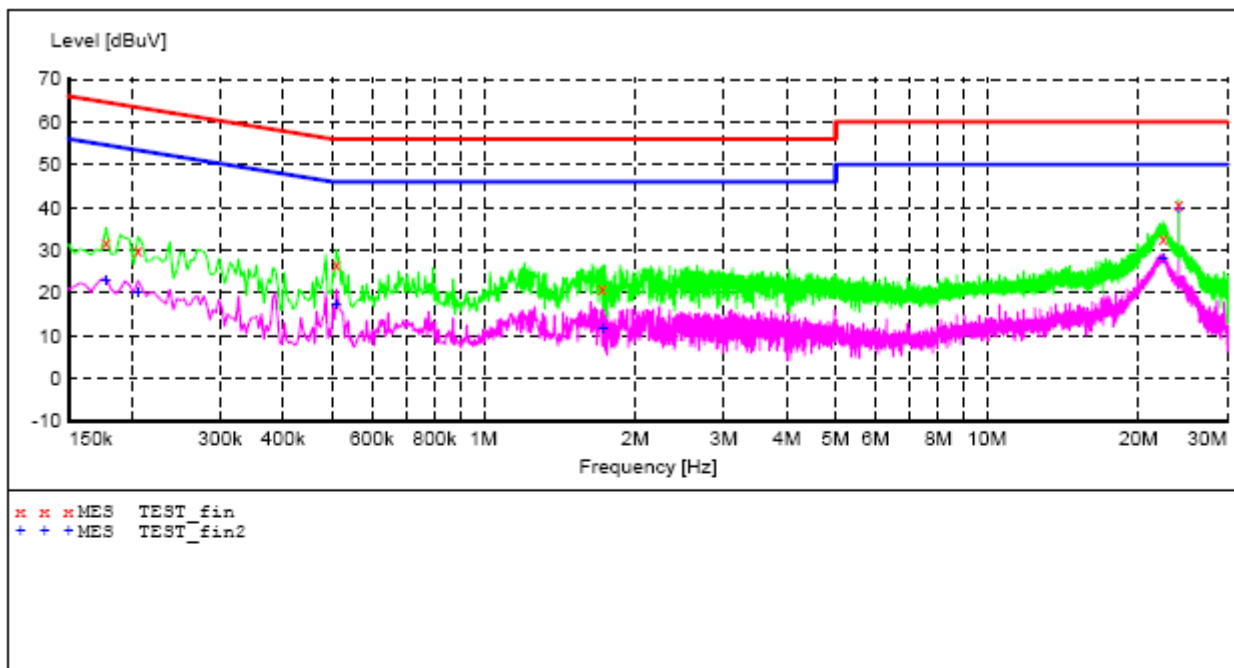
| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.166000         | 37.40         | 10.0         | 65            | 27.8         | QP       | L1   | FLO |
| 0.186000         | 36.20         | 10.1         | 64            | 28.0         | QP       | L1   | FLO |
| 0.226000         | 33.00         | 10.1         | 63            | 29.6         | QP       | L1   | FLO |
| 0.454000         | 30.80         | 10.1         | 57            | 26.0         | QP       | L1   | FLO |
| 22.582000        | 33.80         | 11.1         | 60            | 26.2         | QP       | L1   | FLO |
| 24.002000        | 39.60         | 11.1         | 60            | 20.4         | QP       | L1   | FLO |

### MEASUREMENT RESULT:

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.166000         | 23.60         | 10.0         | 55            | 31.6         | AV       | L1   | FLO |
| 0.186000         | 25.40         | 10.1         | 54            | 28.8         | AV       | L1   | FLO |
| 0.226000         | 20.60         | 10.1         | 53            | 32.0         | AV       | L1   | FLO |
| 0.454000         | 24.60         | 10.1         | 47            | 22.2         | AV       | L1   | FLO |
| 22.578000        | 28.80         | 11.1         | 50            | 21.2         | AV       | L1   | FLO |
| 24.002000        | 38.60         | 11.1         | 50            | 11.4         | AV       | L1   | FLO |

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Line Conducted Emission Test Line 2-N



**MEASUREMENT RESULT:**

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.178000         | 31.70         | 10.0         | 65            | 32.9         | QP       | N    | FLO |
| 0.206000         | 29.90         | 10.1         | 63            | 33.5         | QP       | N    | FLO |
| 0.510000         | 26.60         | 10.1         | 56            | 29.4         | QP       | N    | FLO |
| 1.722000         | 21.30         | 10.2         | 56            | 34.7         | QP       | N    | FLO |
| 22.330000        | 32.70         | 11.1         | 60            | 27.3         | QP       | N    | FLO |
| 24.002000        | 40.60         | 11.1         | 60            | 19.4         | QP       | N    | FLO |

**MEASUREMENT RESULT:**

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.178000         | 22.80         | 10.0         | 55            | 31.8         | AV       | N    | FLO |
| 0.206000         | 20.30         | 10.1         | 53            | 33.1         | AV       | N    | FLO |
| 0.510000         | 17.50         | 10.1         | 46            | 28.5         | AV       | N    | FLO |
| 1.726000         | 11.50         | 10.2         | 46            | 34.5         | AV       | N    | FLO |
| 22.334000        | 28.20         | 11.1         | 50            | 21.8         | AV       | N    | FLO |
| 24.002000        | 39.70         | 11.1         | 50            | 10.3         | AV       | N    | FLO |

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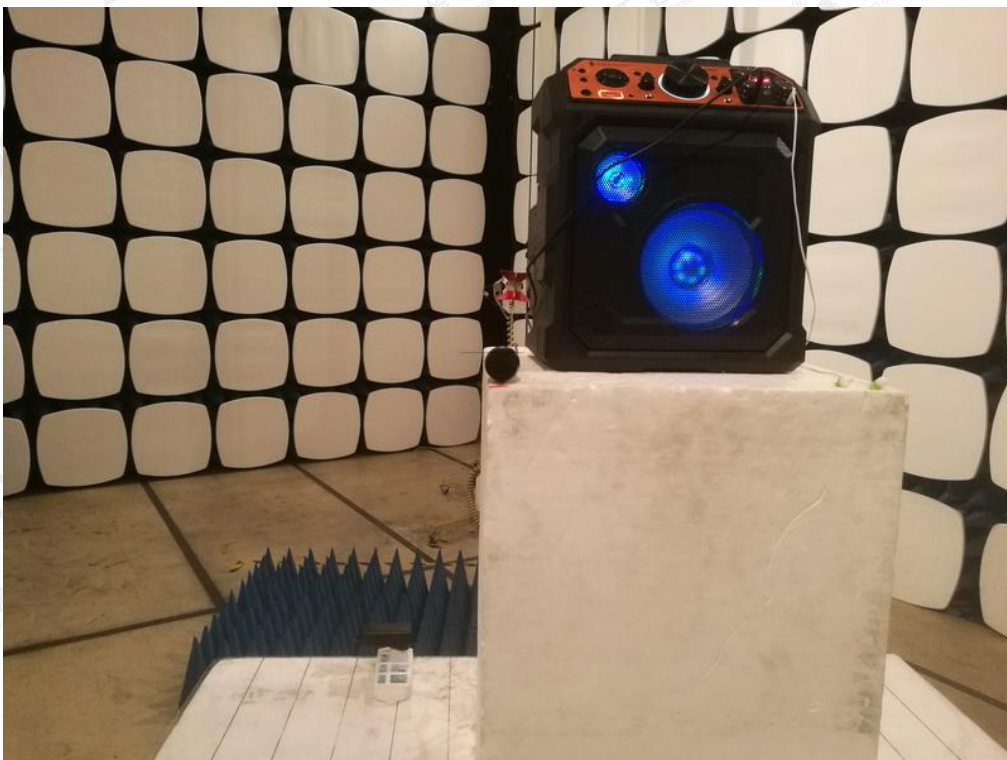
**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**FCC LINE CONDUCTED EMISSION TEST SETUP**



**FCC RADIATED EMISSION TEST SETUP**

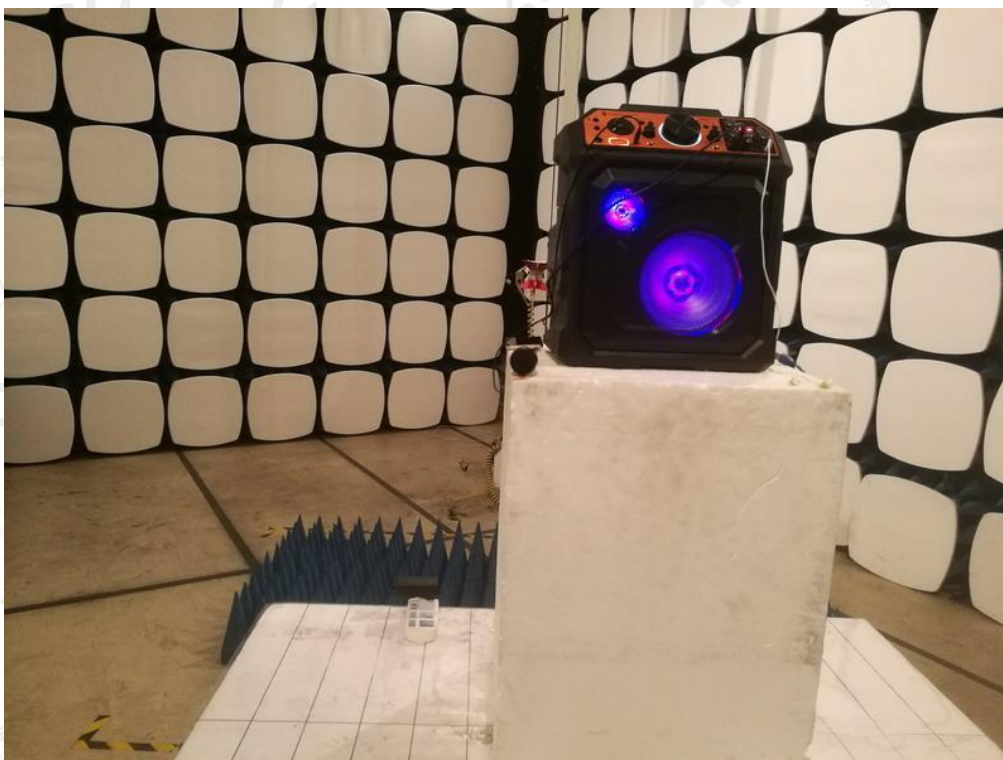


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**APPENDIX B: PHOTOGRAPHS OF EUT**  
**TOTAL VIEW OF EUT**



**TOP VIEW OF EUT**



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)-1



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VIEW OF EUT (PORT)-2



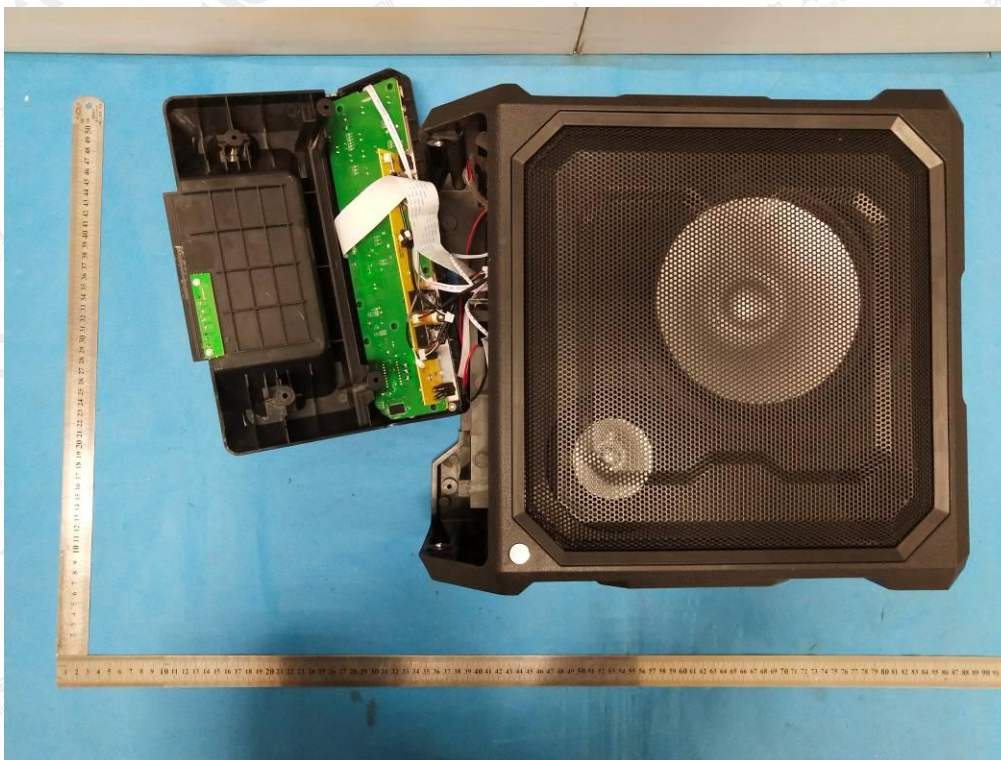
VIEW OF EUT (PORT)-3



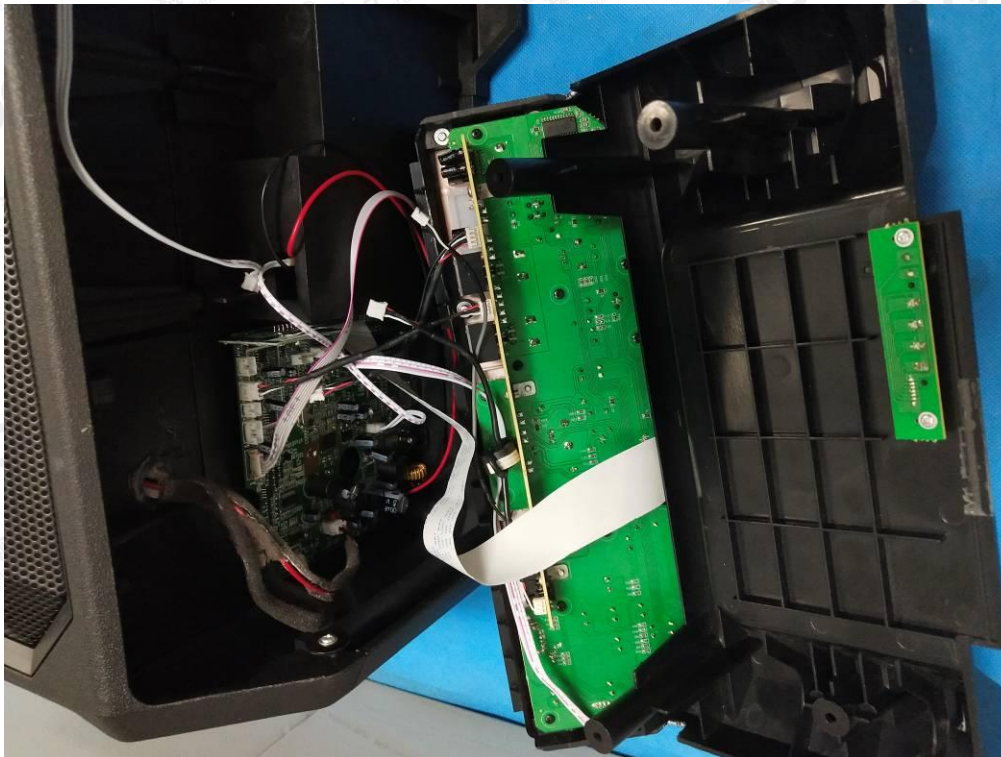
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OPEN VIEW OF EUT-1



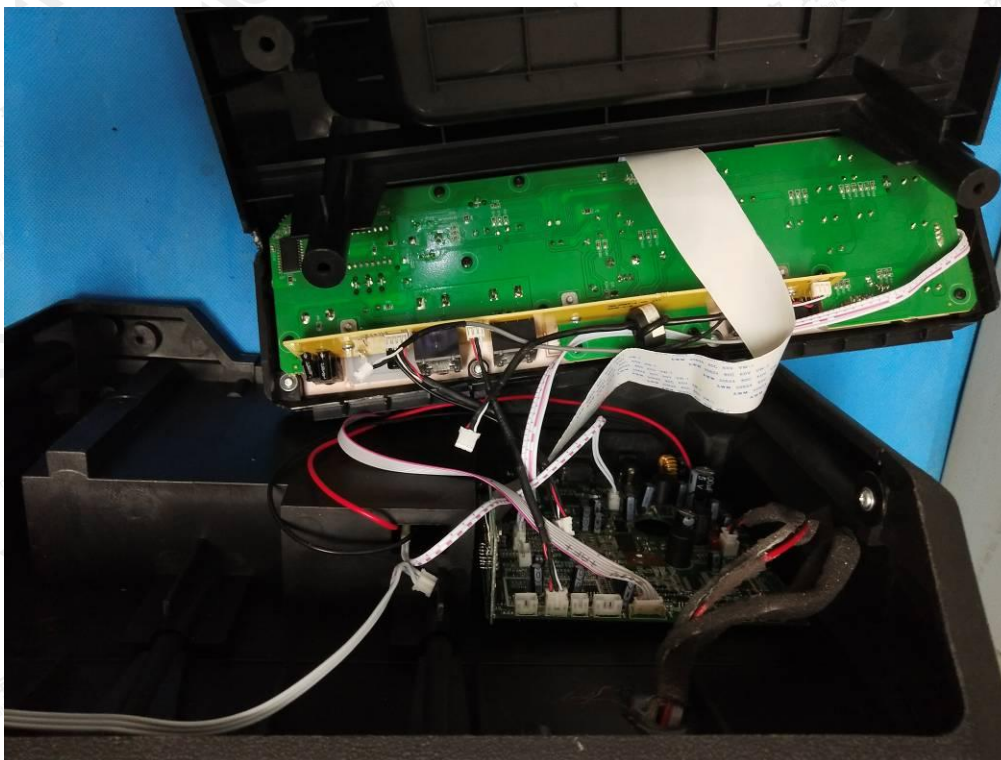
OPEN VIEW OF EUT-2



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OPEN VIEW OF EUT-3



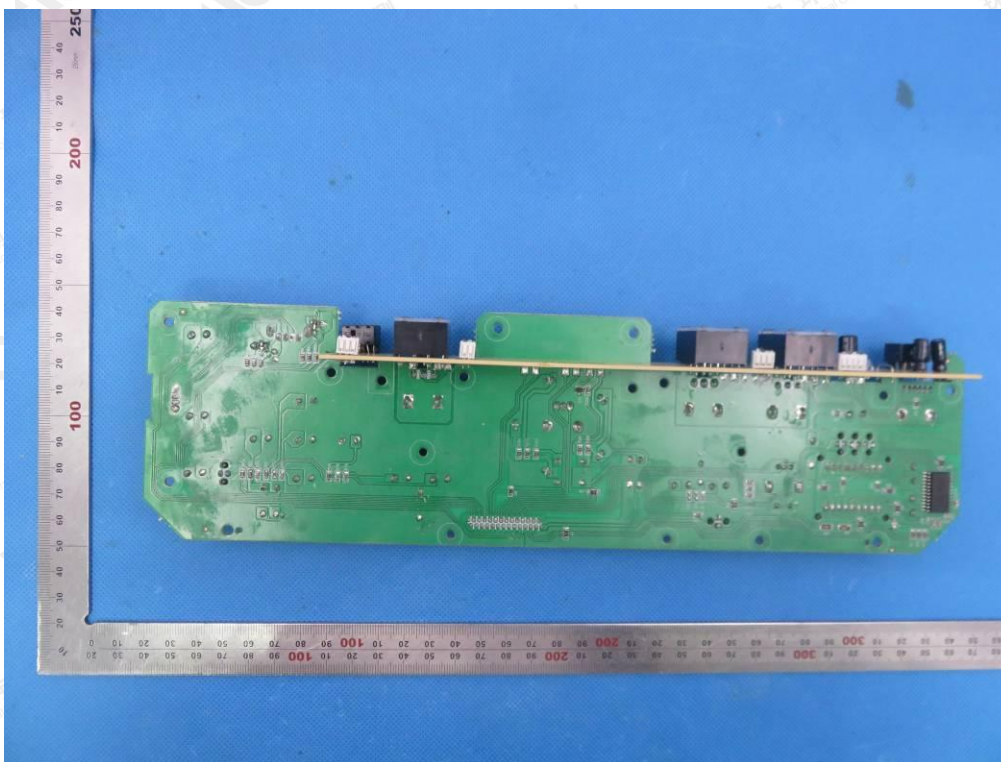
VIEW OF BATTERY



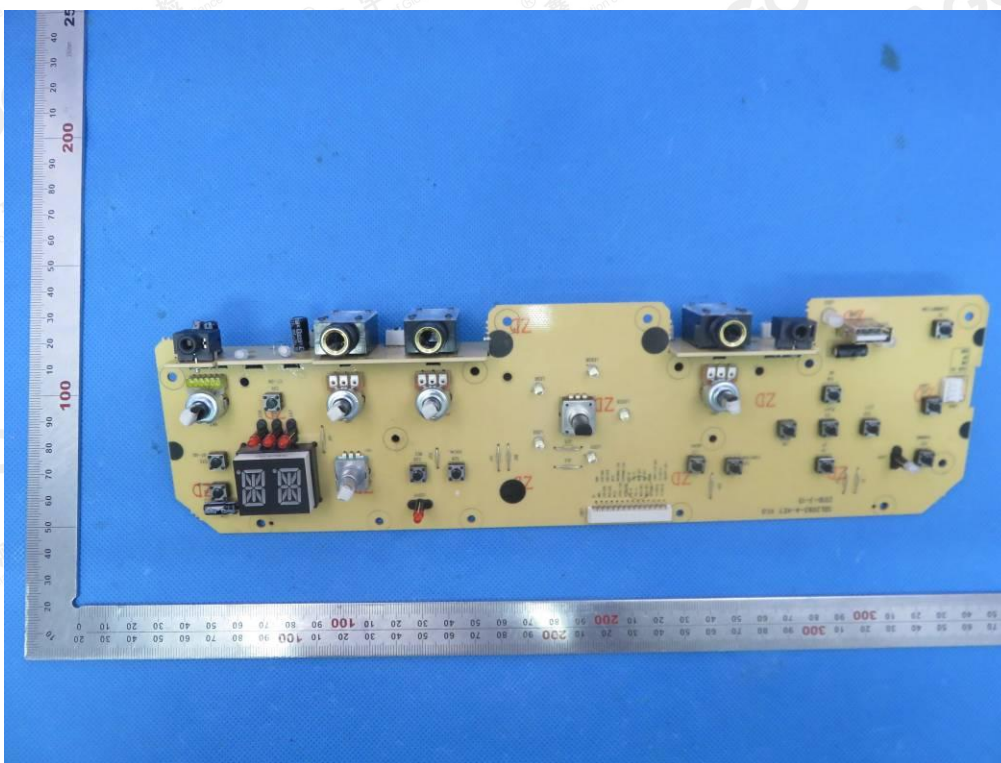
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INTERNAL VIEW OF EUT-1



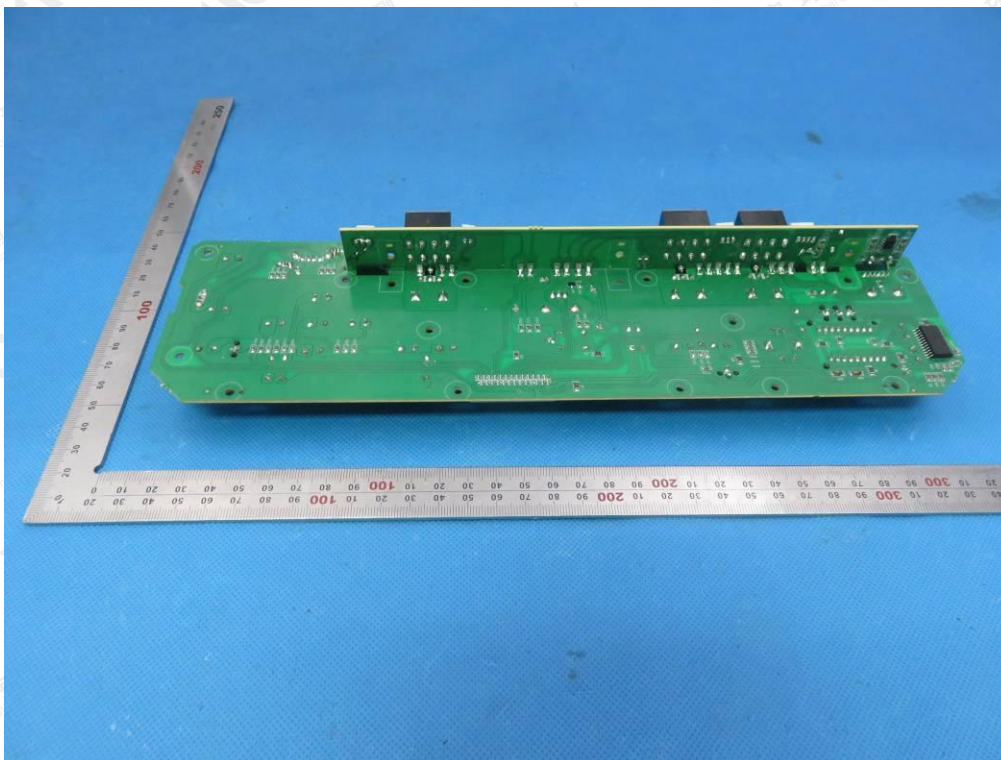
INTERNAL VIEW OF EUT-2



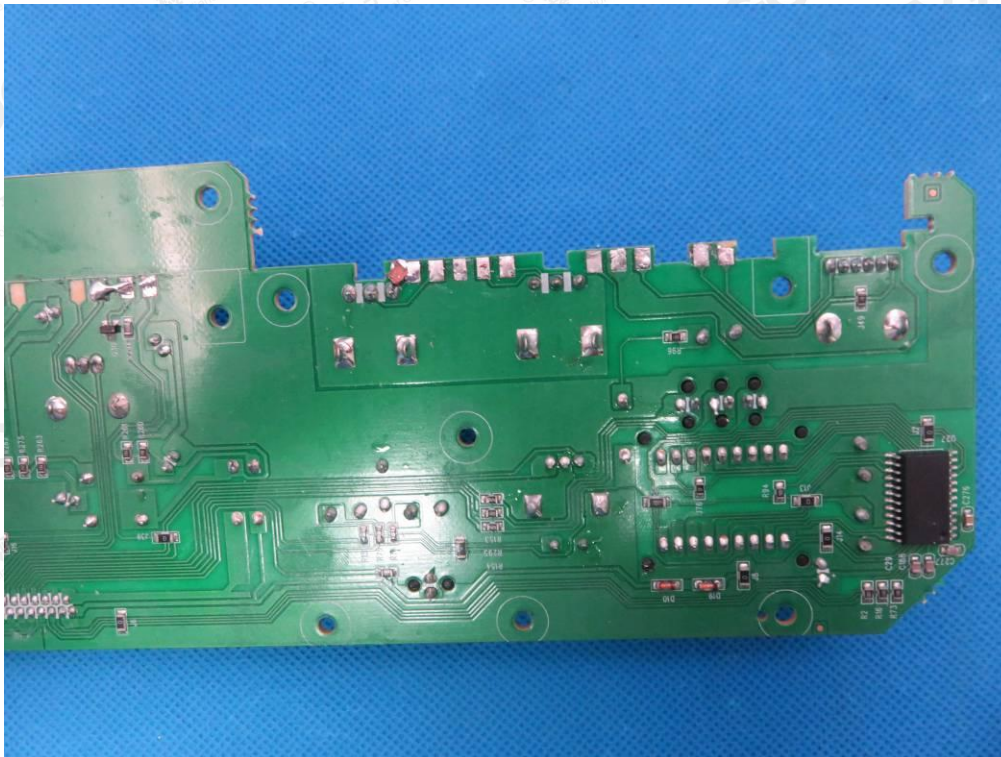
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INTERNAL VIEW OF EUT-3



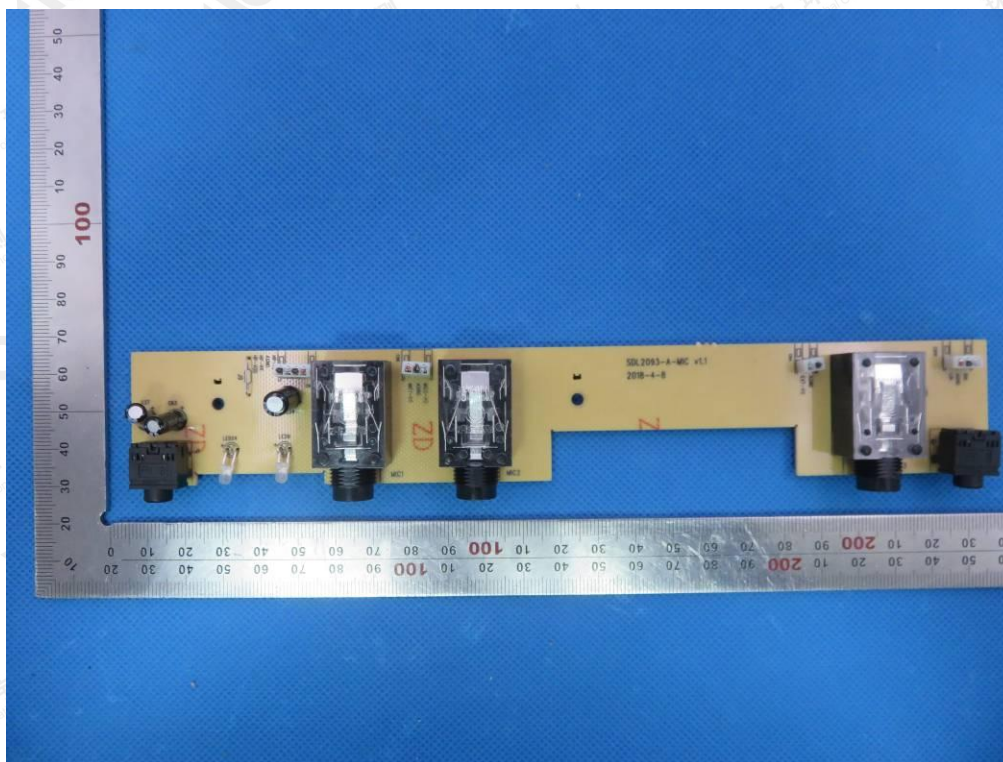
INTERNAL VIEW OF EUT-4



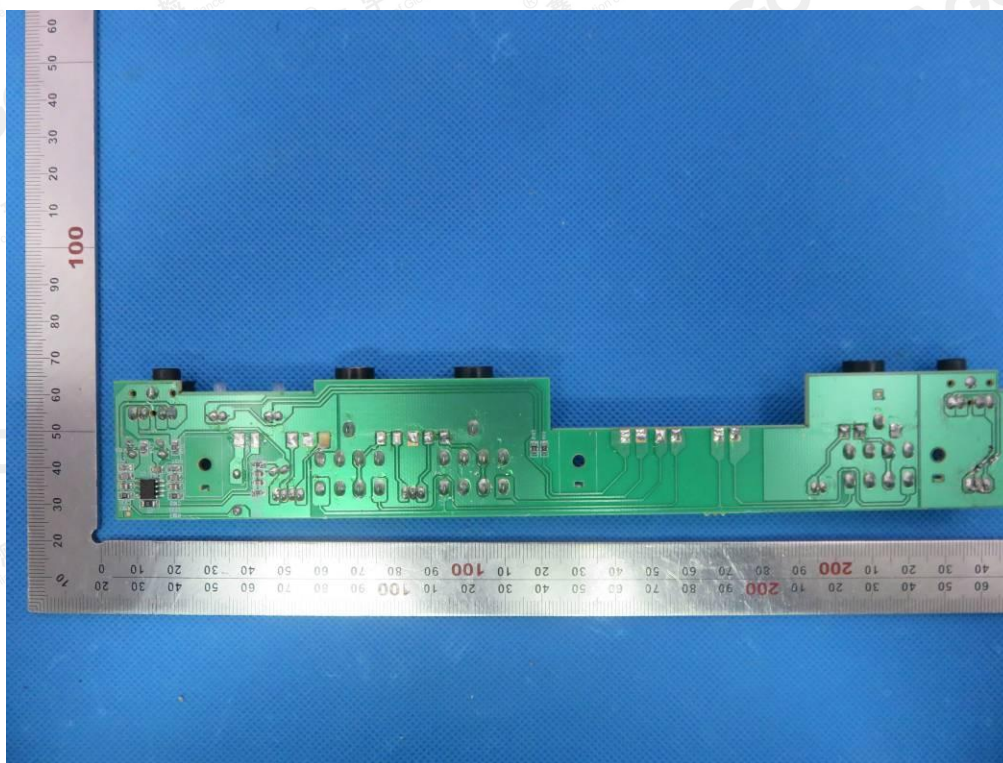
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### INTERNAL VIEW OF EUT-5



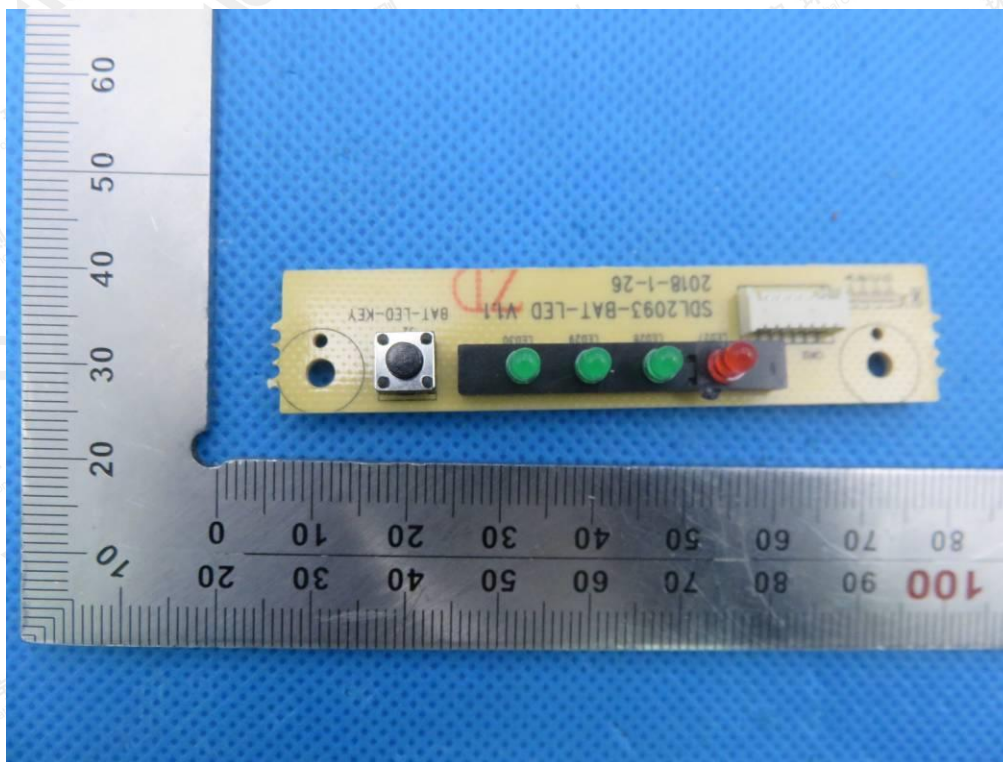
### INTERNAL VIEW OF EUT-6



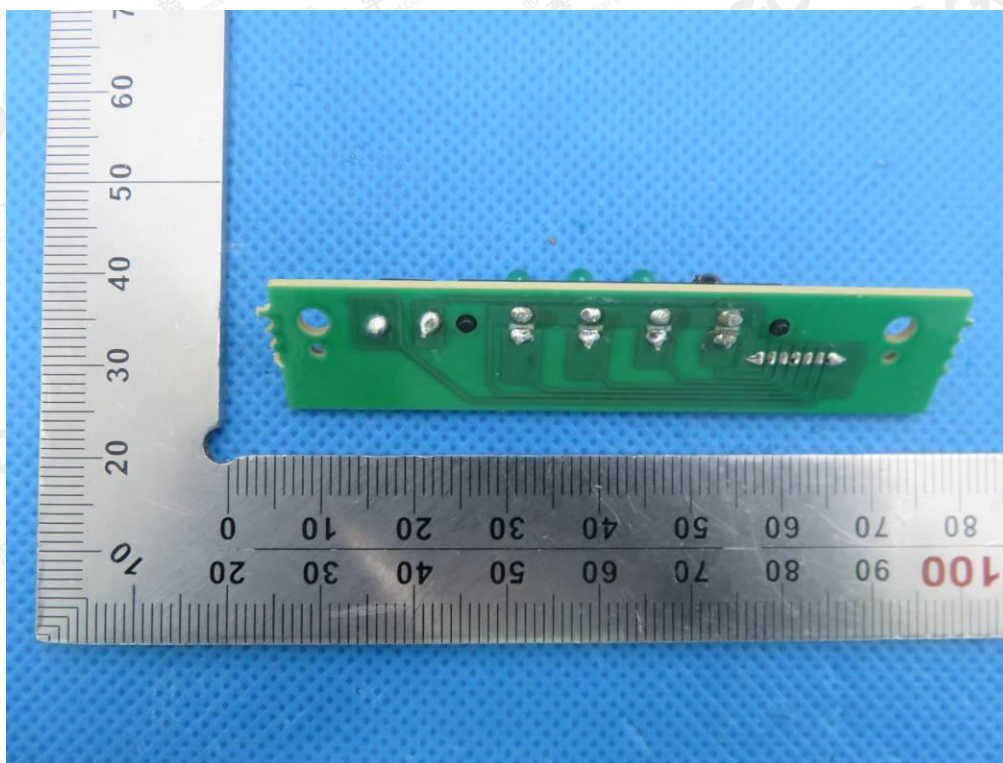
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



INTERNAL VIEW OF EUT-7



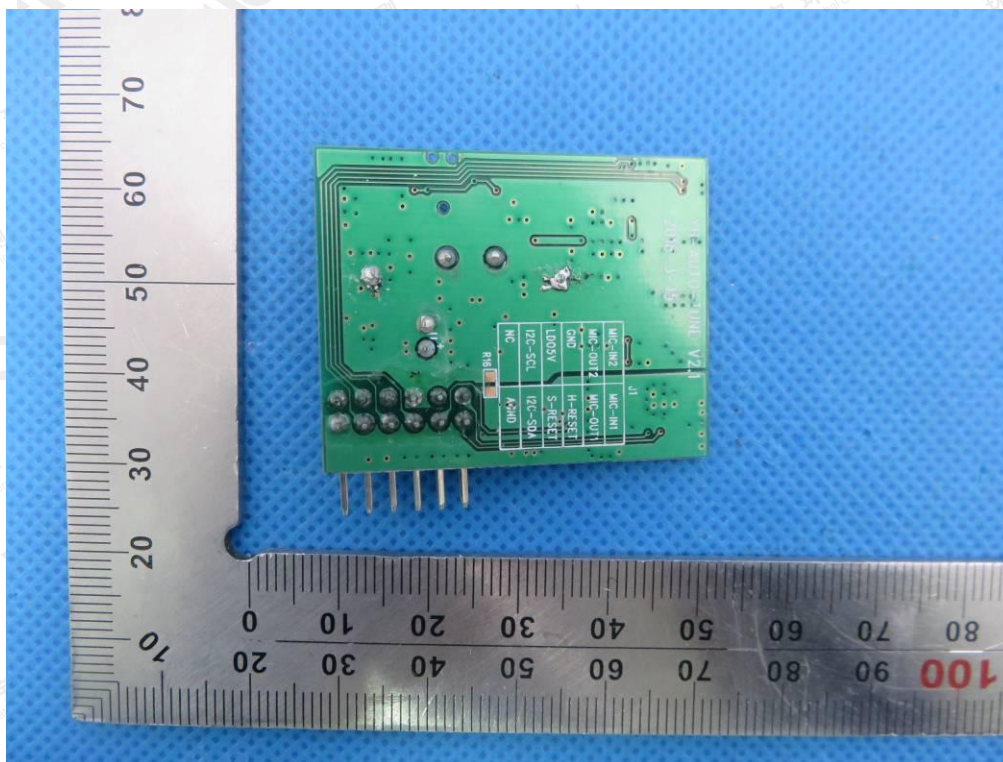
INTERNAL VIEW OF EUT-8



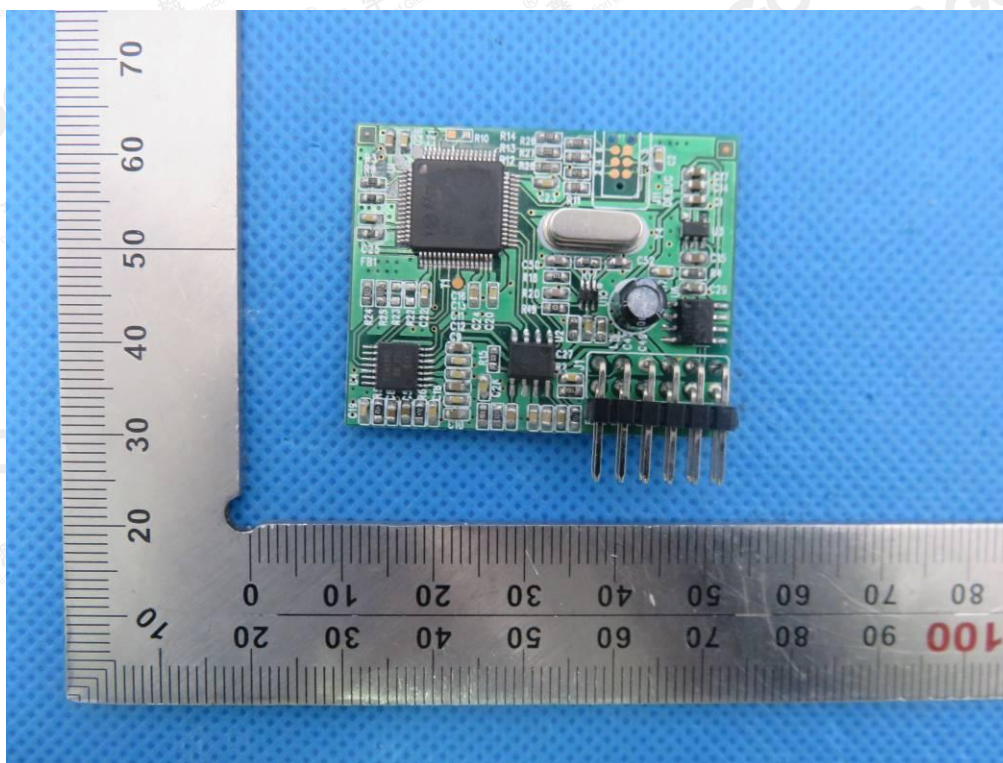
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INTERNAL VIEW OF EUT-9



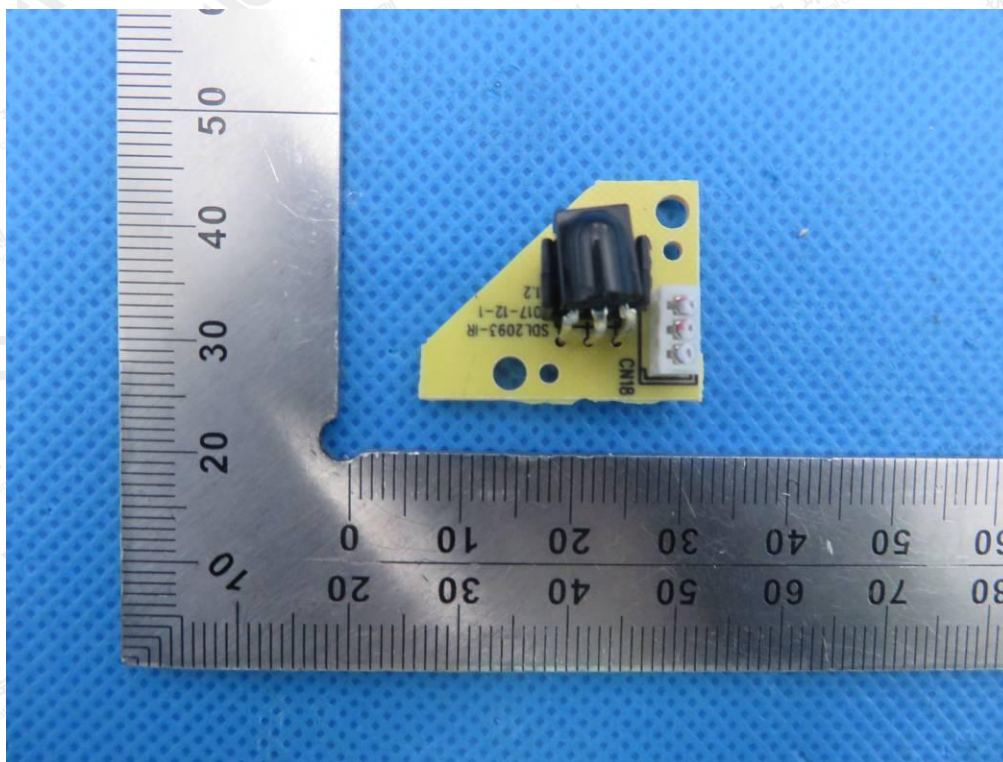
INTERNAL VIEW OF EUT-10



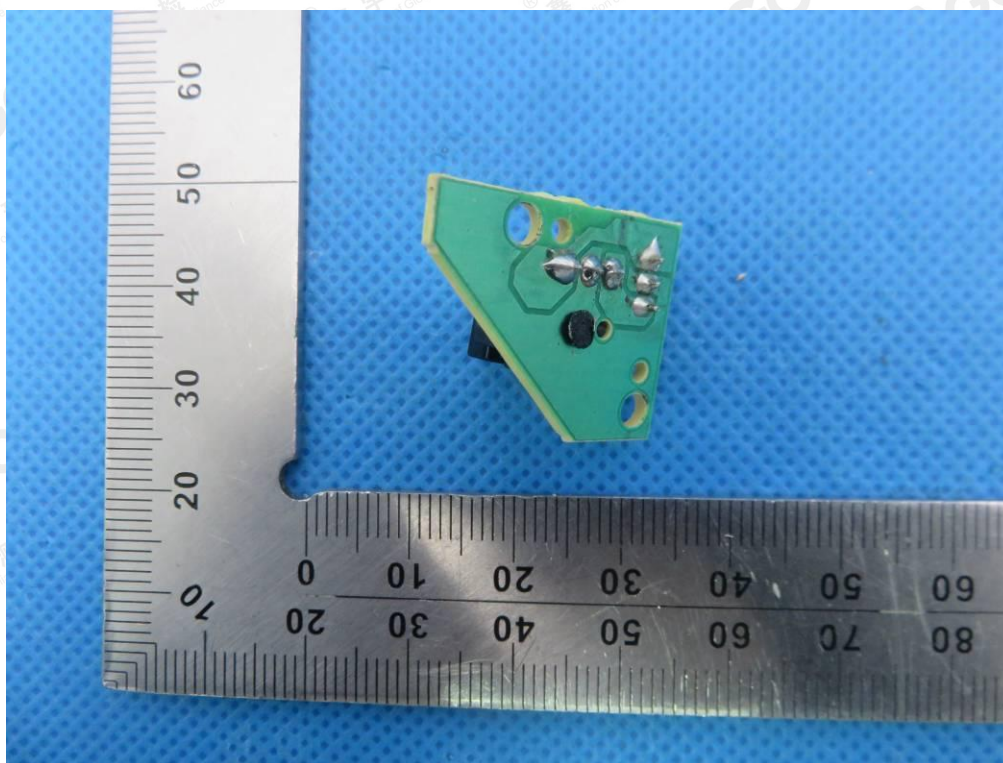
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INTERNAL VIEW OF EUT-11



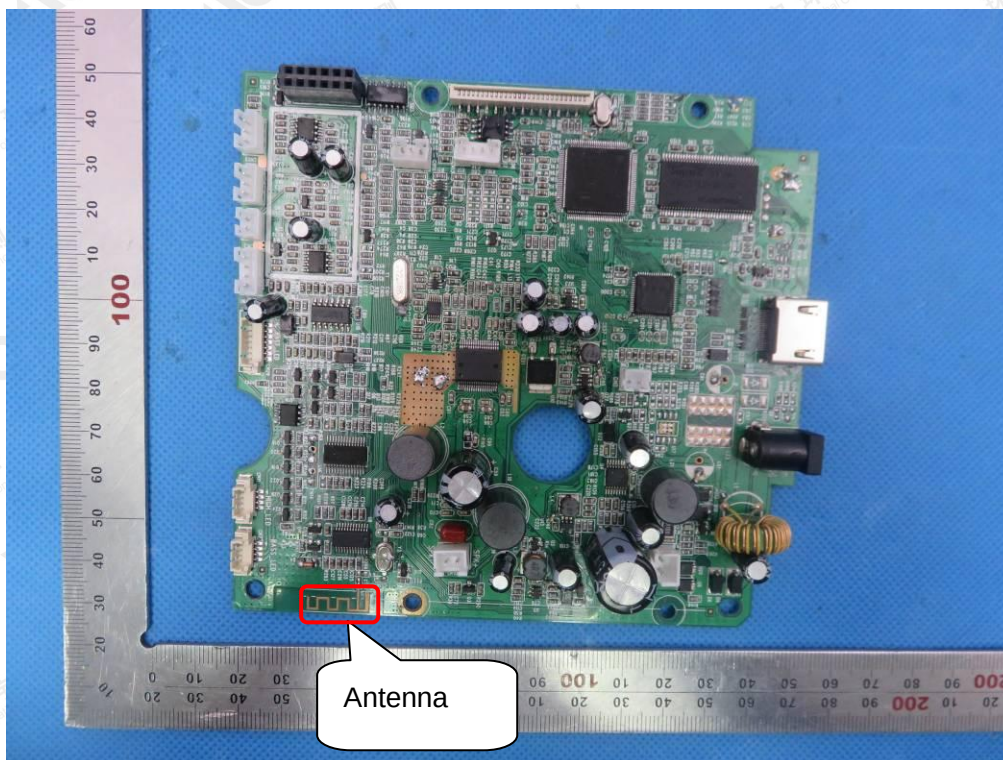
INTERNAL VIEW OF EUT-12



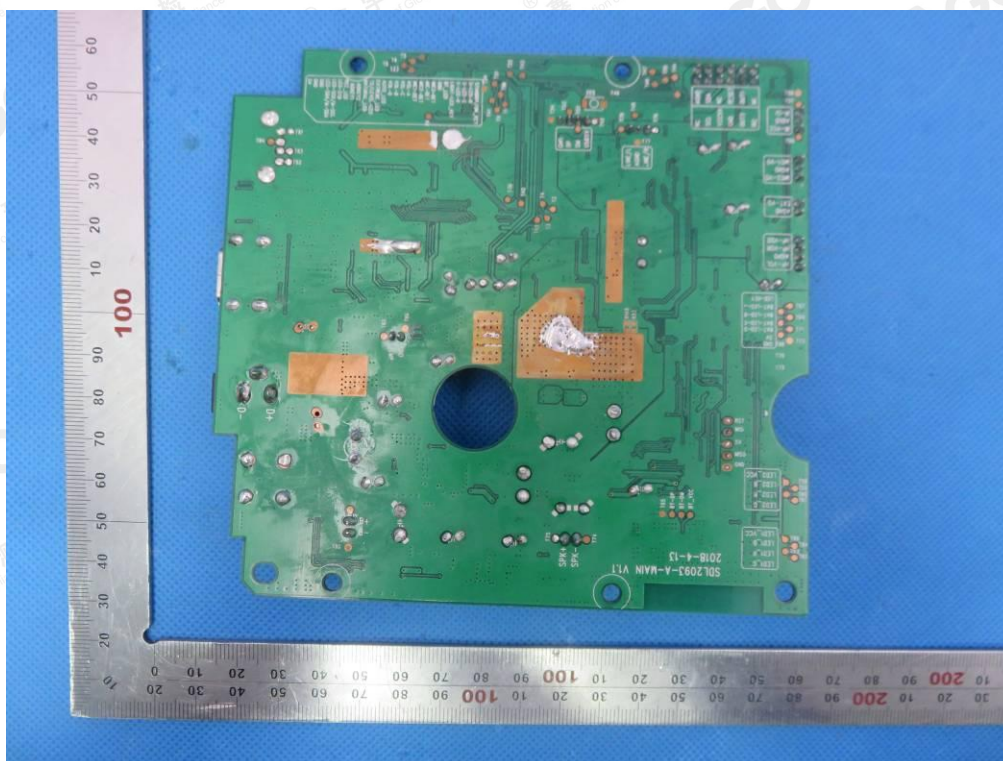
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### INTERNAL VIEW OF EUT-13

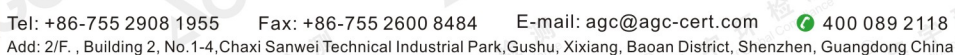


### INTERNAL VIEW OF EUT-14



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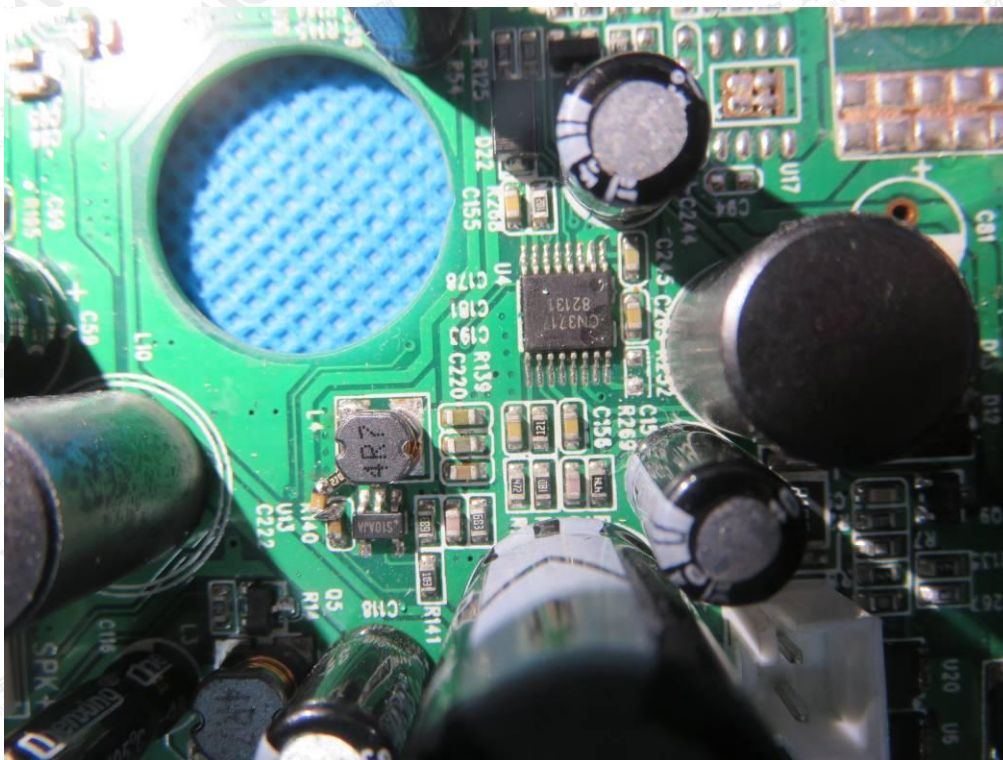




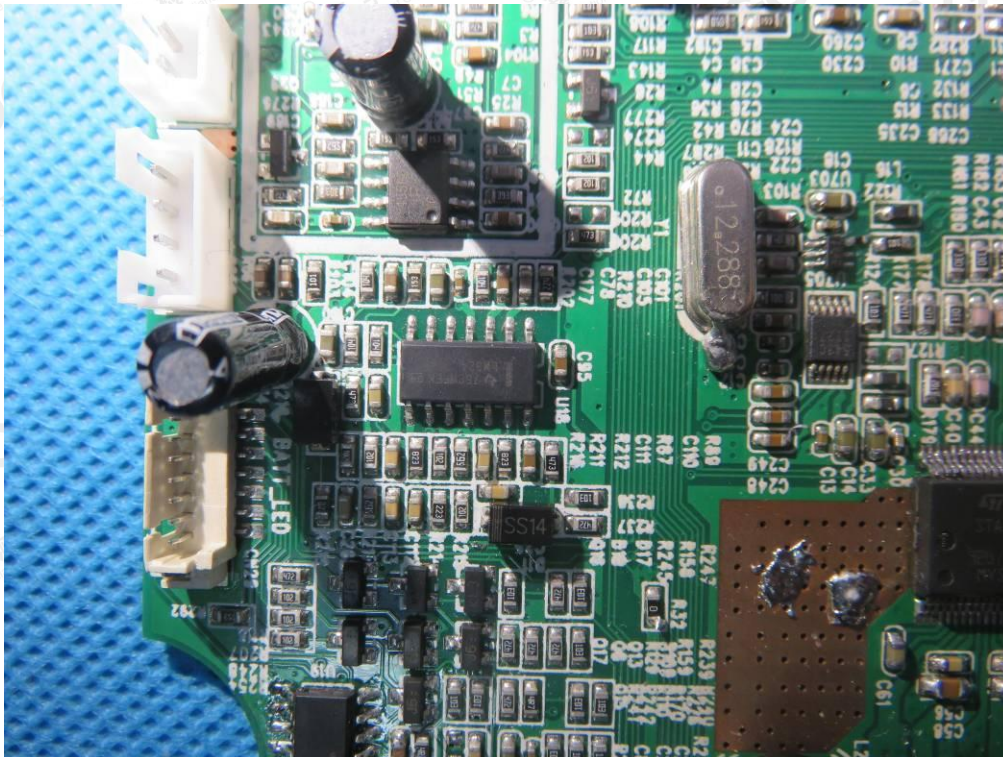




INTERNAL VIEW OF EUT-19



INTERNAL VIEW OF EUT-20



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VIEW OF ADAPTER



----END OF REPORT----

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