

## 10. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

### 10.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 15.205 Restricted frequency band

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

#### 15.209 Limit

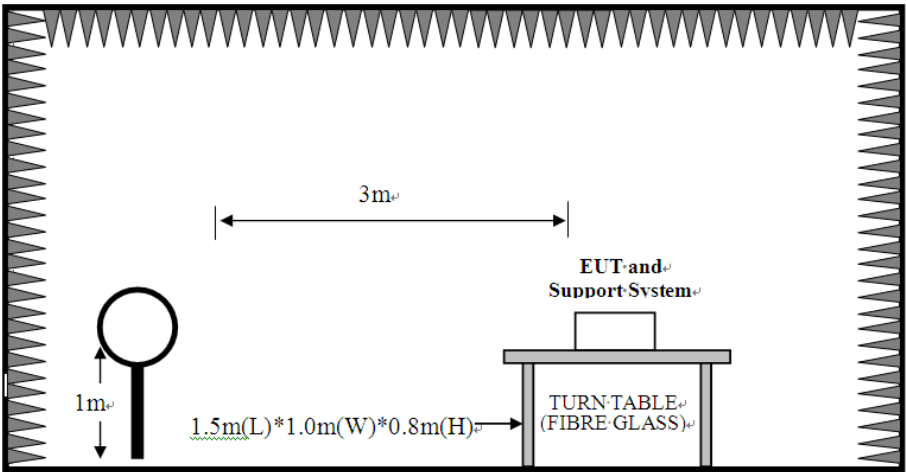
| Frequency (MHz) | Field Strength( $\mu$ V/m) | Distance(m) |
|-----------------|----------------------------|-------------|
| 0.009-0.490     | 2400/F(kHz)                | 300         |
| 0.490-1.705     | 24000/F(kHz)               | 30          |
| 1.705-30        | 30                         | 30          |
| 30-88           | 100                        | 3           |
| 88-216          | 150                        | 3           |
| 216-960         | 200                        | 3           |
| Above 960       | 500                        | 3           |

Note:

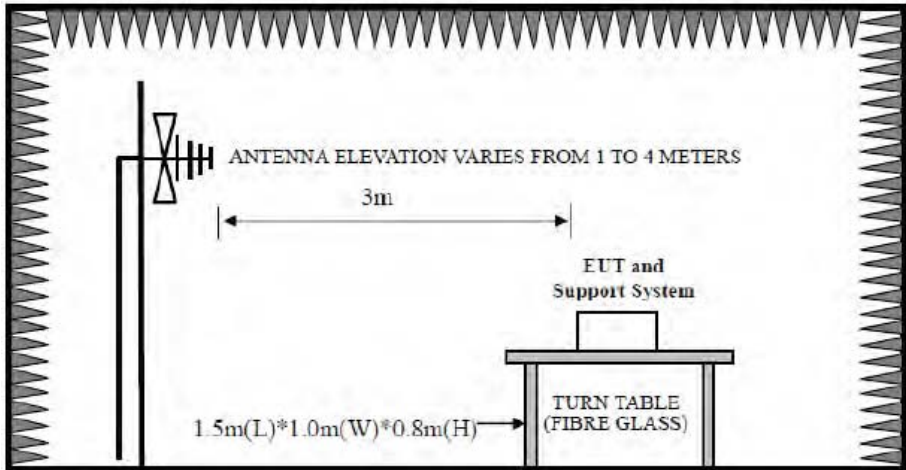
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ .
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the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

10.2. Test Setup

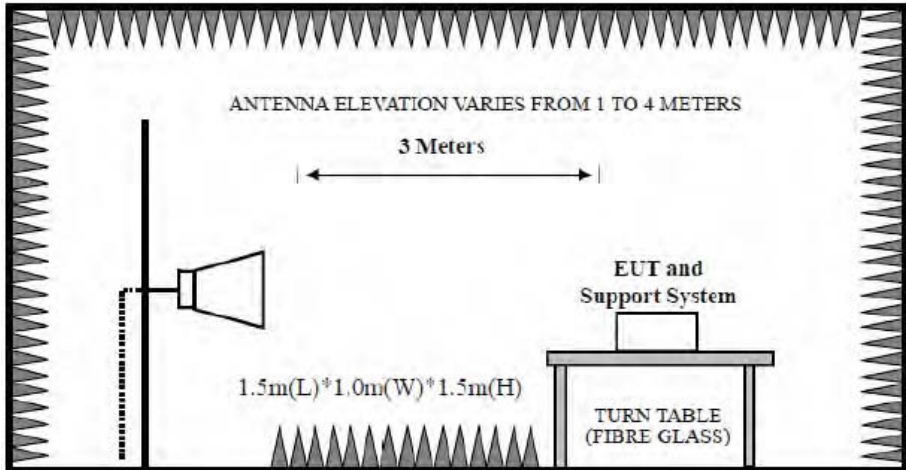
9kHz~30MHz



30~1000MHz



Above 1GHz



## 10.3. Spectrum Analyzer Setting

For 9KHz-150KHz

| Spectrum Parameters | Setting                                 |
|---------------------|-----------------------------------------|
| RBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| VBW                 | 300Hz(for Peak&AVG)/CISPR 200Hz(for QP) |
| Start frequency     | 9KHz                                    |
| Stop frequency      | 150KHz                                  |
| Sweep Time          | Auto                                    |
| Detector            | PEAK/QP/AVG                             |
| Trace Mode          | Max Hold                                |

For 150KHz-30MHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For 30MHz-1GHz

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 120KHz   |
| VBW                 | 300KHz   |
| Start frequency     | 30MHz    |
| Stop frequency      | 1GHz     |
| Sweep Time          | Auto     |
| Detector            | QP       |
| Trace Mode          | Max Hold |

For Above 1GHz

| Spectrum Parameters | Setting          |                                      |
|---------------------|------------------|--------------------------------------|
| RBW                 | 1MHz             |                                      |
| VBW                 | PEAK Measurement | AVG Measurement                      |
|                     | 3MHz             | Duty cycle $\geq 98\%$ , VBW=10Hz    |
|                     |                  | Duty cycle $< 98\%$ , VBW $\geq 1/T$ |
| Start frequency     | 1GHz             |                                      |
| Stop frequency      | 25GHz            |                                      |
| Sweep Time          | Auto             |                                      |
| Detector            | PEAK             |                                      |
| Trace Mode          | Max Hold         |                                      |

## 10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 10.3.
- g. Repeat above procedures until all channels and test modes were measured.
- h. Record the results in the test report.

Note:

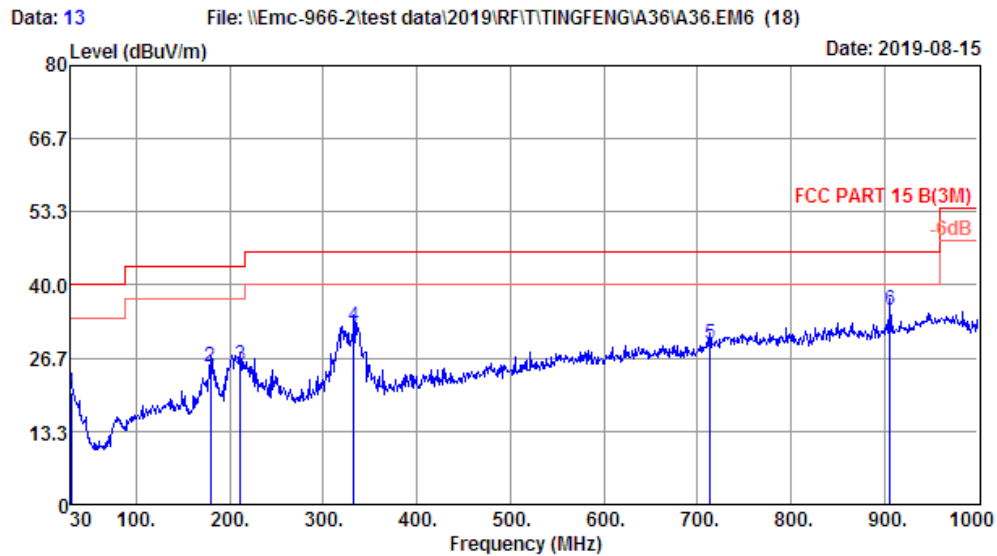
1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz ,2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

## 10.5. Test Result

## Radiated Emissions Below 1GHz

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Site no. : 2# 966 chamber Data no. : 13  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.5'; Humi:48.6%; Press:101.52kPa  
 Engineer : Frank  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : TX Mode

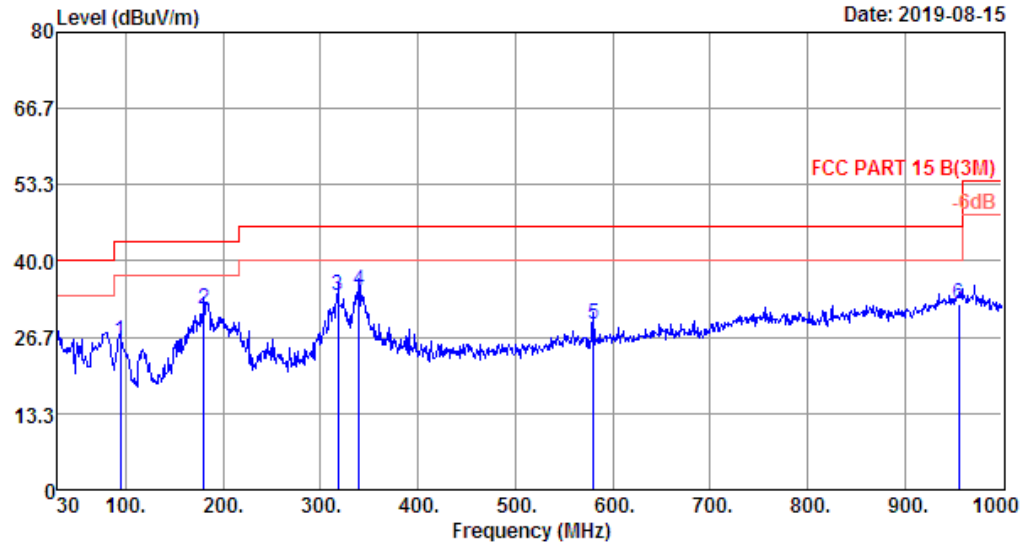
|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 30.00          | 18.40                   | 0.14                  | 1.75              | 20.29                         | 40.00             | 19.71          | QP     |
| 2 | 179.38         | 9.55                    | 1.21                  | 14.27             | 25.03                         | 43.50             | 18.47          | QP     |
| 3 | 211.39         | 8.84                    | 1.37                  | 15.11             | 25.32                         | 43.50             | 18.18          | QP     |
| 4 | 332.64         | 14.63                   | 2.02                  | 15.76             | 32.41                         | 46.00             | 13.59          | QP     |
| 5 | 713.85         | 21.70                   | 3.37                  | 4.20              | 29.27                         | 46.00             | 16.73          | QP     |
| 6 | 905.91         | 23.96                   | 3.90                  | 7.56              | 35.42                         | 46.00             | 10.58          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 14 File: \\Emc-966-2\test data\2019\RFIT\TINGFENG\A36\A36.EM6 (18)



Site no. : 2# 966 chamber Data no. : 14  
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:23.5';Humi:48.6%;Press:101.52kPa  
Engineer : Frank  
EUT : WIRELESS MULTIROOM LOUDSPEAKER  
Power : AC 120V/60Hz  
M/N : A36  
Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 94.02          | 9.46                    | 0.81                  | 15.60             | 25.87                         | 43.50             | 17.63          | QP     |
| 2 | 180.35         | 9.50                    | 1.23                  | 20.81             | 31.54                         | 43.50             | 11.96          | QP     |
| 3 | 318.09         | 13.94                   | 1.92                  | 18.03             | 33.89                         | 46.00             | 12.11          | QP     |
| 4 | 339.43         | 14.69                   | 2.05                  | 18.22             | 34.96                         | 46.00             | 11.04          | QP     |
| 5 | 579.99         | 20.00                   | 2.92                  | 6.08              | 29.00                         | 46.00             | 17.00          | QP     |
| 6 | 955.38         | 24.65                   | 4.59                  | 3.22              | 32.46                         | 46.00             | 13.54          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

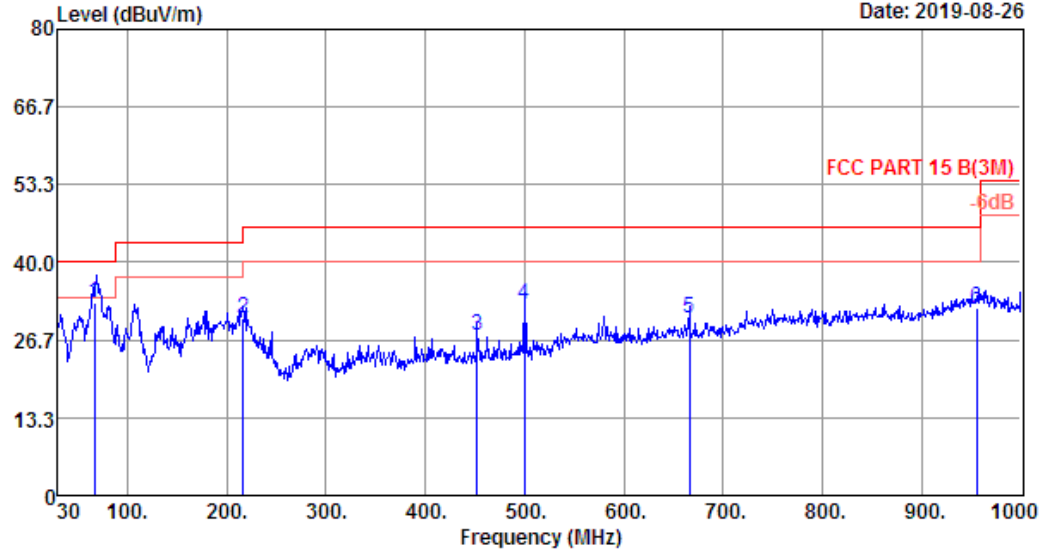
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Data: 137

File: \\Emc-966-1\\test data\\2019\\RF\\T\\Tingfeng.EM6 (140)

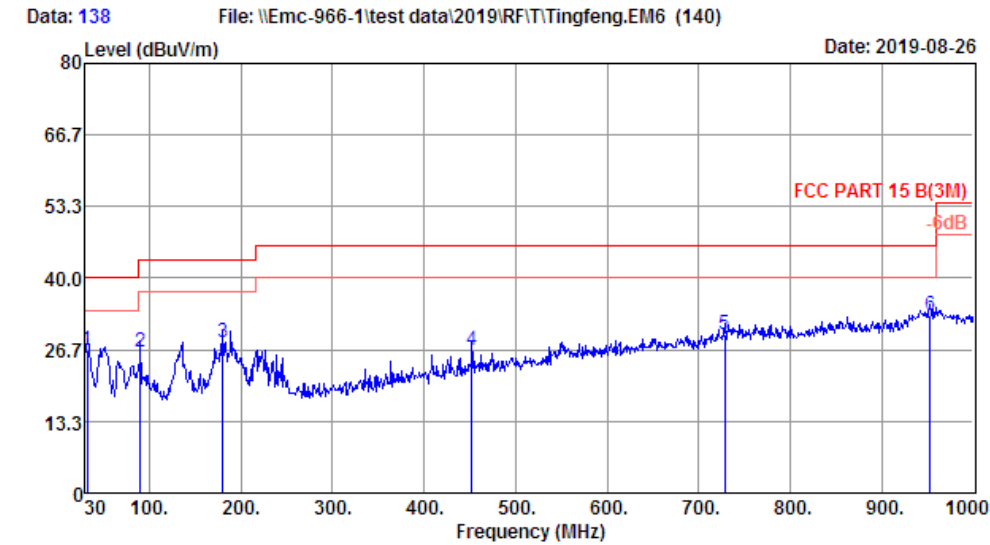
Date: 2019-08-26



Site no. : 2# 966 chamber Data no. : 137  
 Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.5'; Humi:48.6%; Press:101.52kPa  
 Engineer : Frank  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A26  
 Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 67.00          | 5.90                    | 0.49                  | 26.70             | 33.09                         | 40.00             | 6.91           | QP     |
| 2 | 216.24         | 9.44                    | 1.43                  | 19.60             | 30.47                         | 46.00             | 15.53          | QP     |
| 3 | 451.95         | 17.34                   | 2.55                  | 7.49              | 27.38                         | 46.00             | 18.62          | QP     |
| 4 | 499.48         | 18.28                   | 2.66                  | 11.94             | 32.88                         | 46.00             | 13.12          | QP     |
| 5 | 666.32         | 21.66                   | 3.22                  | 5.64              | 30.52                         | 46.00             | 15.48          | QP     |
| 6 | 955.38         | 24.65                   | 4.59                  | 3.00              | 32.24                         | 46.00             | 13.76          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 2# 966 chamber      Data no. : 138  
Dis. / Ant. : 3m 37062      Ant. pol. : VERTICAL  
Limit : FCC PART 15 B(3M)  
Env. / Ins. : Temp:23.5';Humi:48.6%;Press:101.52kPa  
Engineer : Frank  
EUT : WIRELESS MULTIROOM LOUDSPEAKER  
Power : AC 120V/60Hz  
M/N : A26  
Test Mode : TX Mode

|   | Freq.<br>(MHz) | ANT<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|-------------------------|-----------------------|-------------------|-------------------------------|-------------------|----------------|--------|
| 1 | 31.94          | 16.80                   | 0.15                  | 9.62              | 26.57                         | 40.00             | 13.43          | QP     |
| 2 | 90.14          | 9.30                    | 0.79                  | 16.28             | 26.37                         | 43.50             | 17.13          | QP     |
| 3 | 180.35         | 9.50                    | 1.23                  | 17.44             | 28.17                         | 43.50             | 15.33          | QP     |
| 4 | 451.95         | 17.34                   | 2.55                  | 6.60              | 26.49                         | 46.00             | 19.51          | QP     |
| 5 | 728.40         | 21.70                   | 3.53                  | 4.35              | 29.58                         | 46.00             | 16.42          | QP     |
| 6 | 952.47         | 24.63                   | 4.57                  | 3.80              | 33.00                         | 46.00             | 13.00          | QP     |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test,only the worst case was reported.

## Radiated Emissions Above 1G

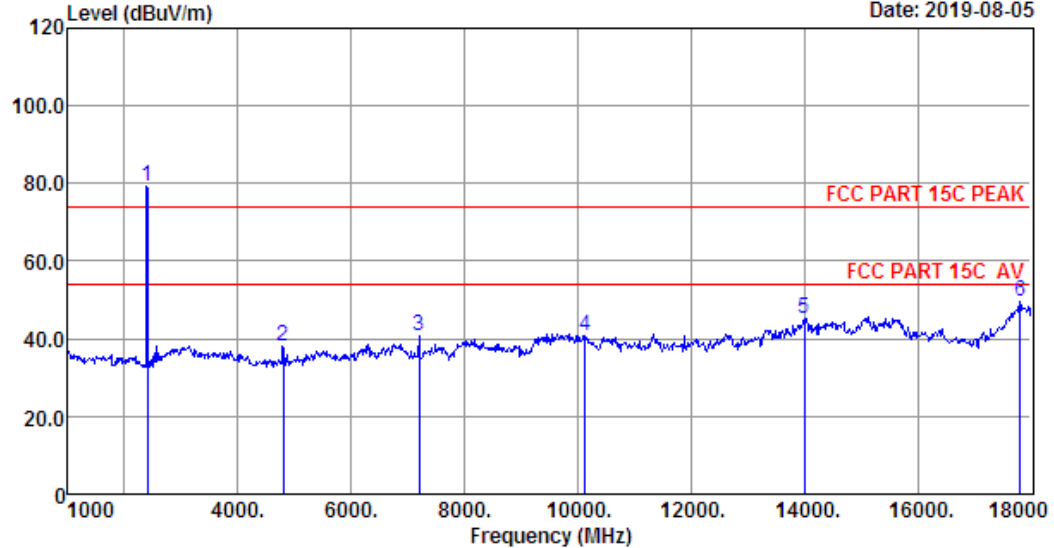
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Data: 15

File: \\Emc-966-1\test data\2019\RF\T\Tingfeng.EM6 (118)

Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 15  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2402.00        | 27.26                    | 1.45                  | 34.64                 | 85.05             | 79.12                         | 74.00              | -5.12          | Peak   |
| 2 | 4804.00        | 31.12                    | 3.25                  | 34.66                 | 38.18             | 37.89                         | 74.00              | 36.11          | Peak   |
| 3 | 7206.00        | 36.21                    | 5.19                  | 34.82                 | 34.08             | 40.66                         | 74.00              | 33.34          | Peak   |
| 4 | 10129.00       | 39.04                    | 5.92                  | 34.24                 | 30.03             | 40.75                         | 74.00              | 33.25          | Peak   |
| 5 | 14005.00       | 41.10                    | 6.53                  | 34.30                 | 32.00             | 45.33                         | 74.00              | 28.67          | Peak   |
| 6 | 17813.00       | 47.41                    | 8.12                  | 34.32                 | 28.17             | 49.38                         | 74.00              | 24.62          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

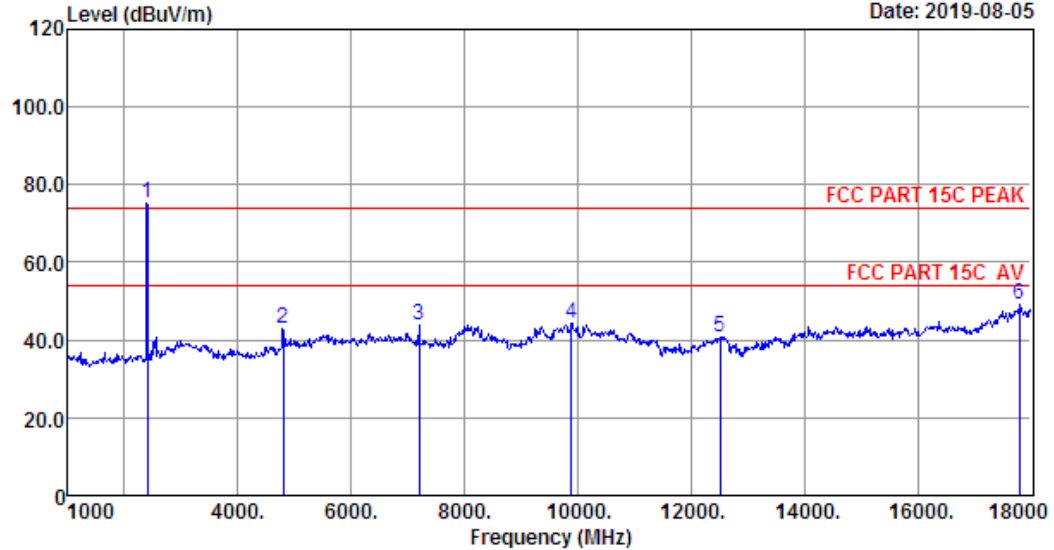
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Data: 16

File: \\Emc-966-1\test data\2019\RF\T\Tingfeng.EM6 (118)

Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 16  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2402.00        | 27.26                    | 1.45                  | 34.64                 | 81.21             | 75.28                         | 74.00              | -1.28          | Peak   |
| 2 | 4804.00        | 31.12                    | 3.25                  | 34.66                 | 43.04             | 42.75                         | 74.00              | 31.25          | Peak   |
| 3 | 7206.00        | 36.21                    | 5.19                  | 34.82                 | 37.19             | 43.77                         | 74.00              | 30.23          | Peak   |
| 4 | 9891.00        | 38.69                    | 5.81                  | 34.22                 | 33.84             | 44.12                         | 74.00              | 29.88          | Peak   |
| 5 | 12509.00       | 39.65                    | 6.21                  | 34.60                 | 29.62             | 40.88                         | 74.00              | 33.12          | Peak   |
| 6 | 17796.00       | 47.27                    | 8.11                  | 34.32                 | 27.90             | 48.96                         | 74.00              | 25.04          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

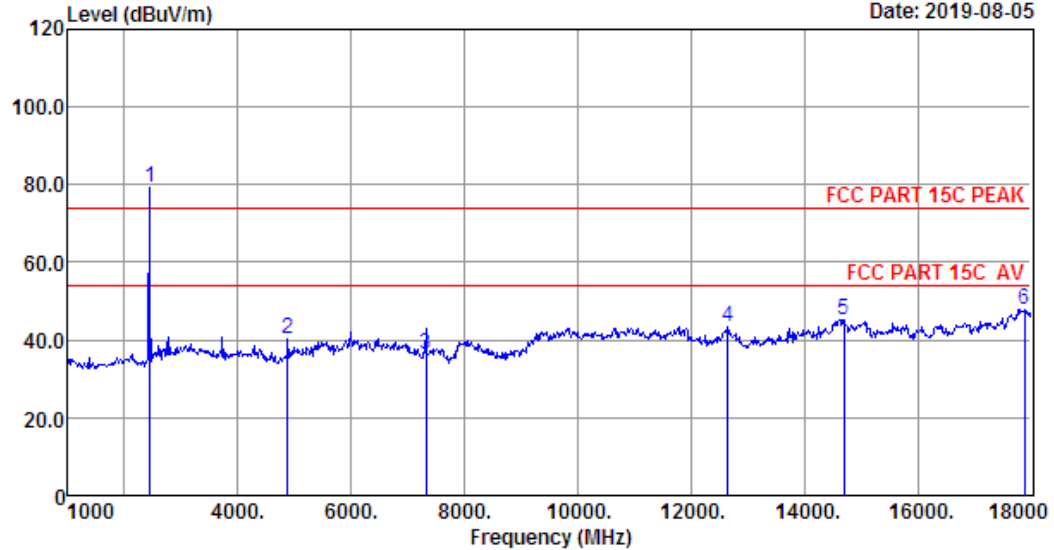
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Data: 17

File: \\Emc-966-1\test data\2019\RFIT\Tingfeng.EM6 (118)

Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 17  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2441MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.33                    | 1.47                  | 34.62                 | 85.26             | 79.44                         | 74.00              | -5.44          | Peak   |
| 2 | 4882.00        | 31.37                    | 3.31                  | 34.68                 | 40.28             | 40.28                         | 74.00              | 33.72          | Peak   |
| 3 | 7323.00        | 36.46                    | 5.22                  | 34.83                 | 29.43             | 36.28                         | 74.00              | 37.72          | Peak   |
| 4 | 12645.00       | 39.58                    | 6.23                  | 34.54                 | 32.06             | 43.33                         | 74.00              | 30.67          | Peak   |
| 5 | 14702.00       | 40.96                    | 6.86                  | 34.51                 | 31.97             | 45.28                         | 74.00              | 28.72          | Peak   |
| 6 | 17881.00       | 47.95                    | 8.16                  | 34.31                 | 26.21             | 48.01                         | 74.00              | 25.99          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

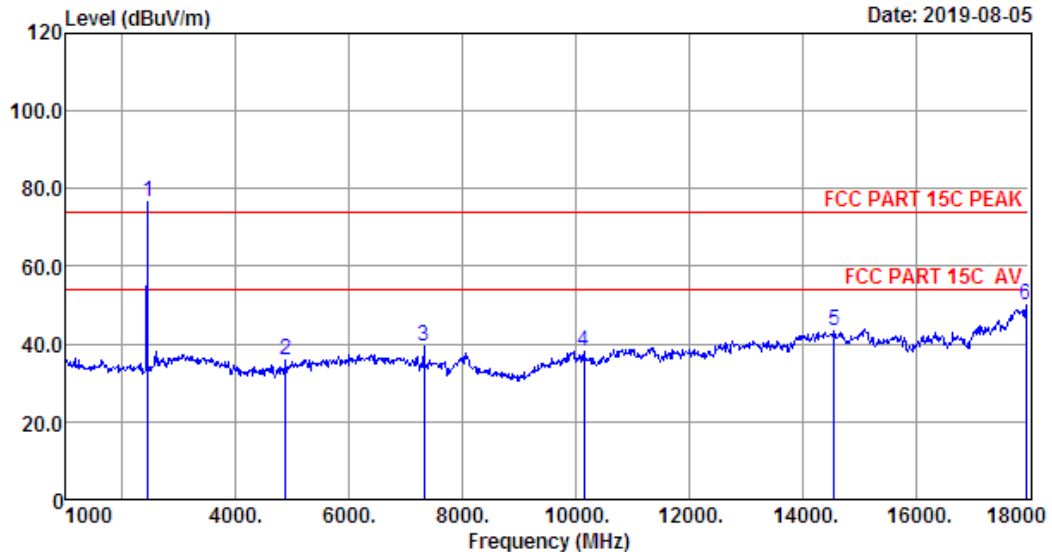
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Data: 18

File: \\Emc-966-1\test data\2019\RFIT\Tingfeng.EM6 (118)

Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 18  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2441MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2441.00        | 27.33                    | 1.47                  | 34.62                 | 82.45             | 76.63                         | 74.00              | -2.63          | Peak   |
| 2 | 4882.00        | 31.37                    | 3.31                  | 34.68                 | 35.86             | 35.86                         | 74.00              | 38.14          | Peak   |
| 3 | 7323.00        | 36.46                    | 5.22                  | 34.83                 | 32.34             | 39.19                         | 74.00              | 34.81          | Peak   |
| 4 | 10146.00       | 39.05                    | 5.93                  | 34.25                 | 27.52             | 38.25                         | 74.00              | 35.75          | Peak   |
| 5 | 14566.00       | 40.99                    | 6.89                  | 34.47                 | 29.78             | 43.19                         | 74.00              | 30.81          | Peak   |
| 6 | 17949.00       | 48.49                    | 8.21                  | 34.31                 | 27.43             | 49.82                         | 74.00              | 24.18          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

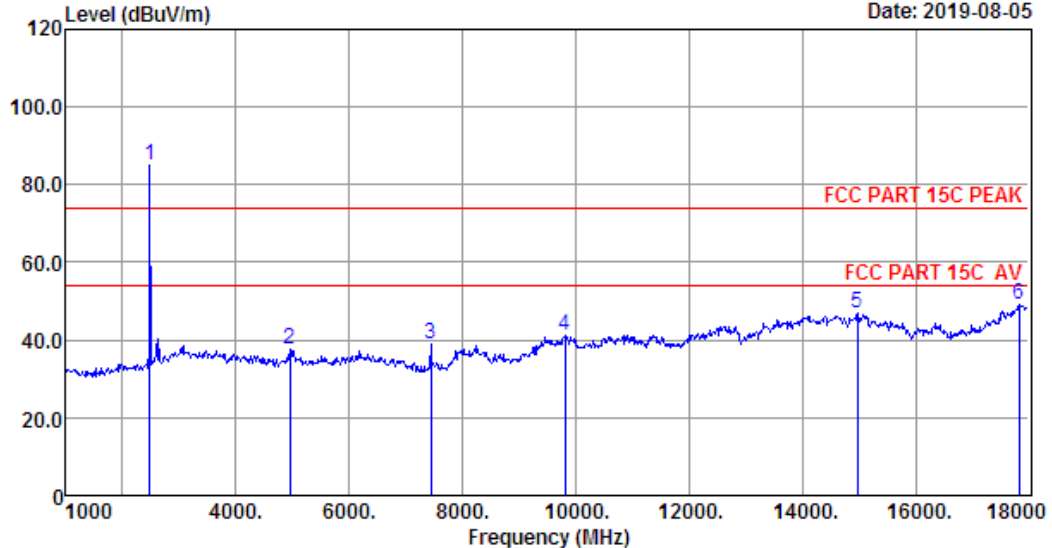
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Data: 19

File: \\Emc-966-1\\test data\\2019\\RF\\T\\Tingfeng.EM6 (118)

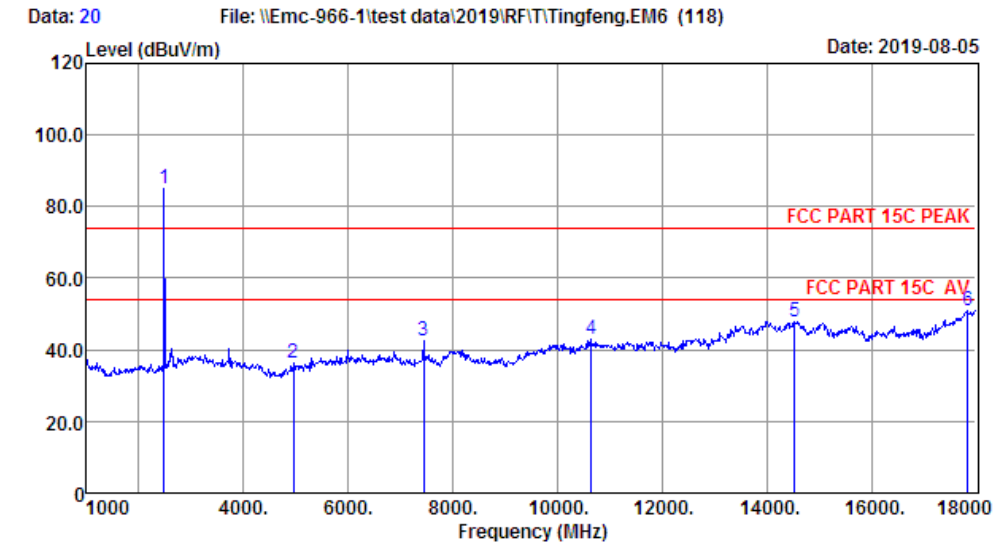
Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 19  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.38                    | 1.48                  | 34.61                 | 90.72             | 84.97                         | 74.00              | -10.97         | Peak   |
| 2 | 4960.00        | 31.68                    | 3.38                  | 34.69                 | 37.11             | 37.48                         | 74.00              | 36.52          | Peak   |
| 3 | 7440.00        | 36.70                    | 5.26                  | 34.84                 | 32.02             | 39.14                         | 74.00              | 34.86          | Peak   |
| 4 | 9806.00        | 38.52                    | 5.74                  | 34.24                 | 31.23             | 41.25                         | 74.00              | 32.75          | Peak   |
| 5 | 14974.00       | 40.91                    | 6.82                  | 34.59                 | 33.69             | 46.83                         | 74.00              | 27.17          | Peak   |
| 6 | 17830.00       | 47.54                    | 8.13                  | 34.32                 | 27.75             | 49.10                         | 74.00              | 24.90          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 20  
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
Engineer : SEVEN  
EUT : WIRELESS MULTIROOM LOUDSPEAKER  
Power : AC 120V/60Hz  
M/N : A36  
Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.00        | 27.38                    | 1.48                  | 34.61                 | 90.82             | 85.07                         | 74.00              | -11.07         | Peak   |
| 2 | 4960.00        | 31.68                    | 3.38                  | 34.69                 | 35.76             | 36.13                         | 74.00              | 37.87          | Peak   |
| 3 | 7440.00        | 36.70                    | 5.26                  | 34.84                 | 35.27             | 42.39                         | 74.00              | 31.61          | Peak   |
| 4 | 10639.00       | 39.54                    | 6.04                  | 34.39                 | 31.57             | 42.76                         | 74.00              | 31.24          | Peak   |
| 5 | 14532.00       | 40.99                    | 6.89                  | 34.46                 | 34.55             | 47.97                         | 74.00              | 26.03          | Peak   |
| 6 | 17847.00       | 47.68                    | 8.14                  | 34.32                 | 29.61             | 51.11                         | 74.00              | 22.89          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported.

## Radiated Band Edge

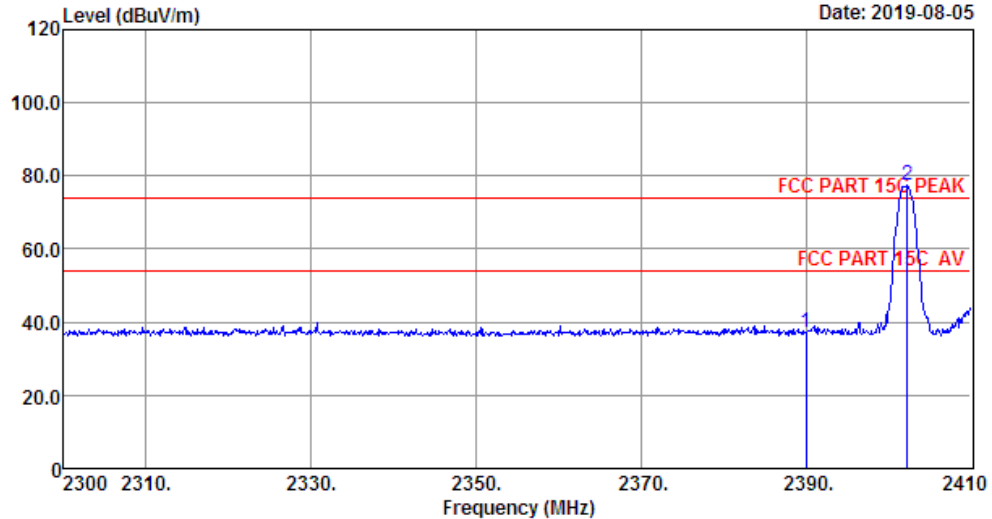
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Data: 21

File: \\Emc-966-1\test data\2019\RFIT\Tingfeng.EM6 (118)

Date: 2019-08-05



Site no. : 1# 966 Chamber Data no. : 21  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2402MHz

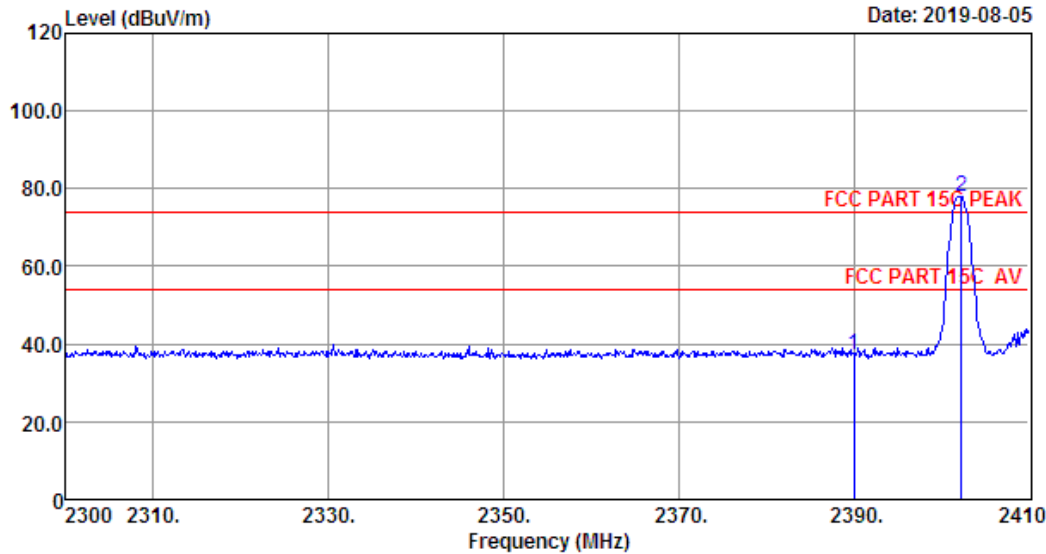
|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.26                    | 1.45                  | 34.64                 | 43.22             | 37.29                         | 74.00              | 36.71          | Peak   |
| 2 | 2402.30        | 27.26                    | 1.45                  | 34.64                 | 83.24             | 77.31                         | 74.00              | -3.31          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 22                      File: \\Emc-966-1\\test data\\2019\\RF\\T\\Tingfeng.EM6 (118)                      Date: 2019-08-05



Site no. : 1# 966 Chamber                      Data no. : 22  
Dis. / Ant. : 3m ANT9120D 1-18G                      Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
Engineer : SEVEN  
EUT : WIRELESS MULTIROOM LOUDSPEAKER  
Power : AC 120V/60Hz  
M/N : A36  
Test Mode : GFSK TX 2402MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2390.00        | 27.26                    | 1.45                  | 34.64                 | 43.19             | 37.26                         | 74.00              | 36.74          | Peak   |
| 2 | 2402.30        | 27.26                    | 1.45                  | 34.64                 | 83.96             | 78.03                         | 74.00              | -4.03          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
2. Margin= Limit - Emission Level.  
3. The emission levels that are 20dB below the official limit are not reported.

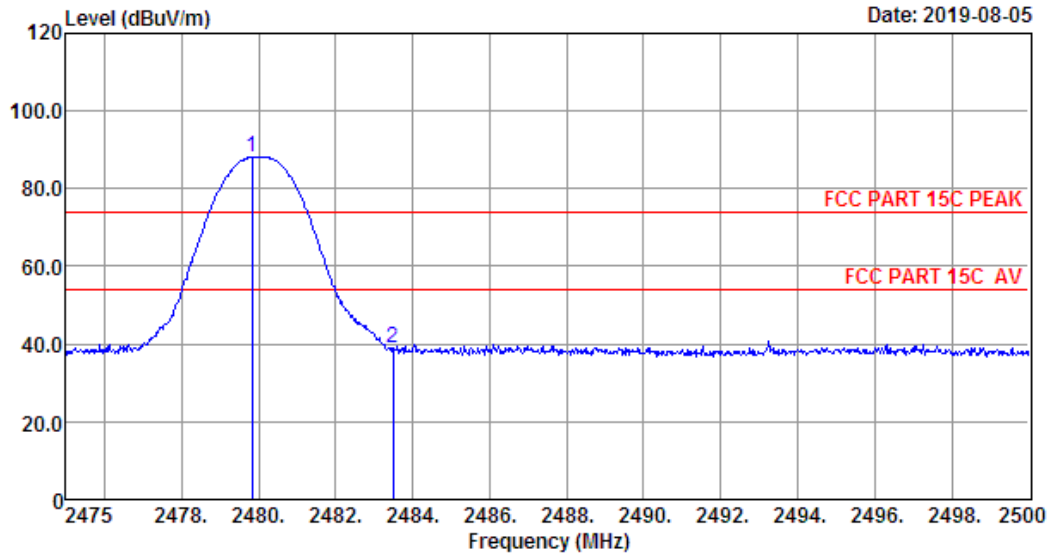
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Data: 23

File: \\Emc-966-1\\test data\\2019\\RF\\T\\Tingfeng.EM6 (118)

Date: 2019-08-05



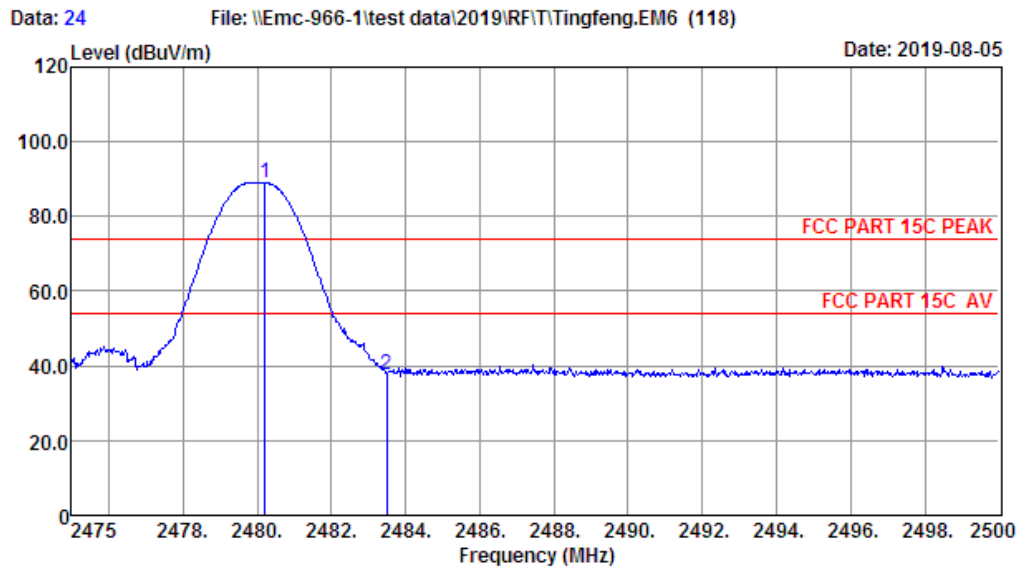
Site no. : 1# 966 Chamber Data no. : 23  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2479.83        | 27.38                    | 1.48                  | 34.61                 | 93.83             | 88.08                         | 74.00              | -14.08         | Peak   |
| 2 | 2483.50        | 27.38                    | 1.48                  | 34.61                 | 44.50             | 38.75                         | 74.00              | 35.25          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 24  
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa  
 Engineer : SEVEN  
 EUT : WIRELESS MULTIROOM LOUDSPEAKER  
 Power : AC 120V/60Hz  
 M/N : A36  
 Test Mode : GFSK TX 2480MHz

|   | Freq.<br>(MHz) | Ant.<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Amp<br>Factor<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV/m) | Limits<br>(dBuV/m) | Margin<br>(dB) | Remark |
|---|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2480.20        | 27.38                    | 1.48                  | 34.61                 | 94.87             | 89.12                         | 74.00              | -15.12         | Peak   |
| 2 | 2483.50        | 27.38                    | 1.48                  | 34.61                 | 43.32             | 37.57                         | 74.00              | 36.43          | Peak   |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. Margin= Limit - Emission Level.  
 3. The emission levels that are 20dB below the official limit are not reported.

## Note:

1. All test mode had been pre-test, only Low/High Channel of the worst case modulation mode was reported.

## 11. AC POWER LINE CONDUCTED EMISSIONS

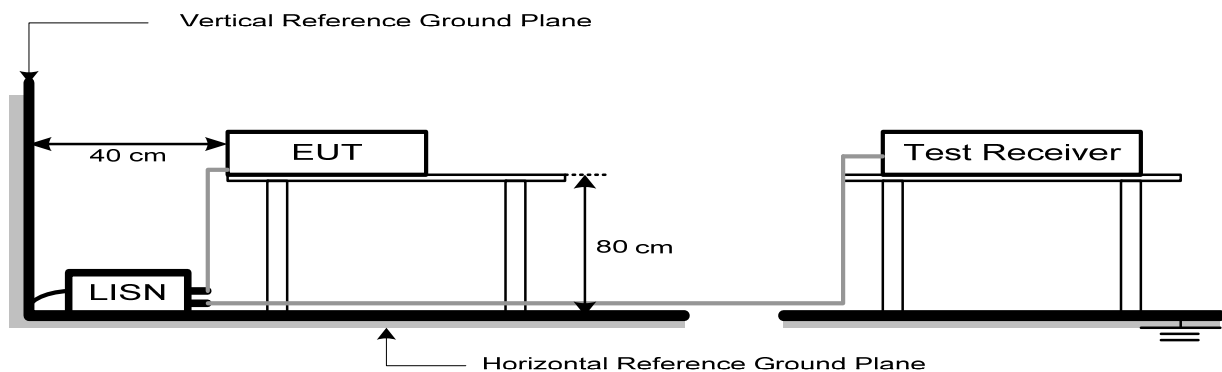
### 11.1. Limit

| Frequency       | Maximum RF Line Voltage          |                               |
|-----------------|----------------------------------|-------------------------------|
|                 | Quasi-Peak Level<br>dB( $\mu$ V) | Average Level<br>dB( $\mu$ V) |
| 150kHz ~ 500kHz | 66 ~ 56*                         | 56 ~ 46*                      |
| 500kHz ~ 5MHz   | 56                               | 46                            |
| 5MHz ~ 30MHz    | 60                               | 50                            |

Note:

1. \* Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

### 11.2. Test Setup



### 11.3. Spectrum Analyzer Setting

| Spectrum Parameters | Setting  |
|---------------------|----------|
| RBW                 | 9KHz     |
| VBW                 | 9KHz     |
| Start frequency     | 150KHz   |
| Stop frequency      | 30MHz    |
| Sweep Time          | Auto     |
| Detector            | QP/AVG   |
| Trace Mode          | Max Hold |

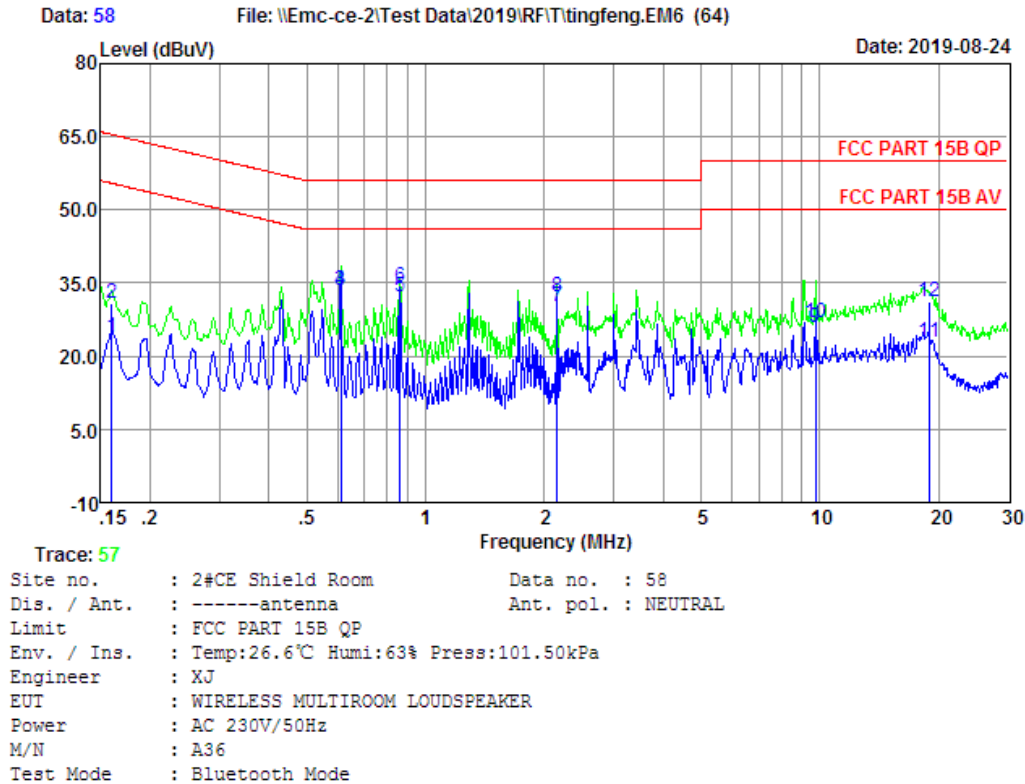
### 11.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

## 11.5. Test Result

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|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.16           | 9.64                   | 0.04                  | 14.13             | 23.81                       | 65.47            | 41.66          | Average |
| 2  | 0.16           | 9.64                   | 0.04                  | 21.10             | 30.78                       | 65.47            | 34.69          | QP      |
| 3  | 0.61           | 9.71                   | 0.05                  | 23.76             | 33.52                       | 56.00            | 22.48          | Average |
| 4  | 0.61           | 9.71                   | 0.05                  | 23.70             | 33.46                       | 56.00            | 22.54          | QP      |
| 5  | 0.86           | 9.74                   | 0.05                  | 22.31             | 32.10                       | 56.00            | 23.90          | Average |
| 6  | 0.86           | 9.74                   | 0.05                  | 24.30             | 34.09                       | 56.00            | 21.91          | QP      |
| 7  | 2.16           | 9.81                   | 0.06                  | 20.45             | 30.32                       | 56.00            | 25.68          | Average |
| 8  | 2.16           | 9.81                   | 0.06                  | 22.41             | 32.28                       | 56.00            | 23.72          | QP      |
| 9  | 9.76           | 9.83                   | 0.08                  | 15.94             | 25.85                       | 60.00            | 34.15          | Average |
| 10 | 9.76           | 9.83                   | 0.08                  | 16.99             | 26.90                       | 60.00            | 33.10          | QP      |
| 11 | 18.92          | 10.01                  | 0.09                  | 12.92             | 23.02                       | 60.00            | 36.98          | Average |
| 12 | 18.92          | 10.01                  | 0.09                  | 20.99             | 31.09                       | 60.00            | 28.91          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

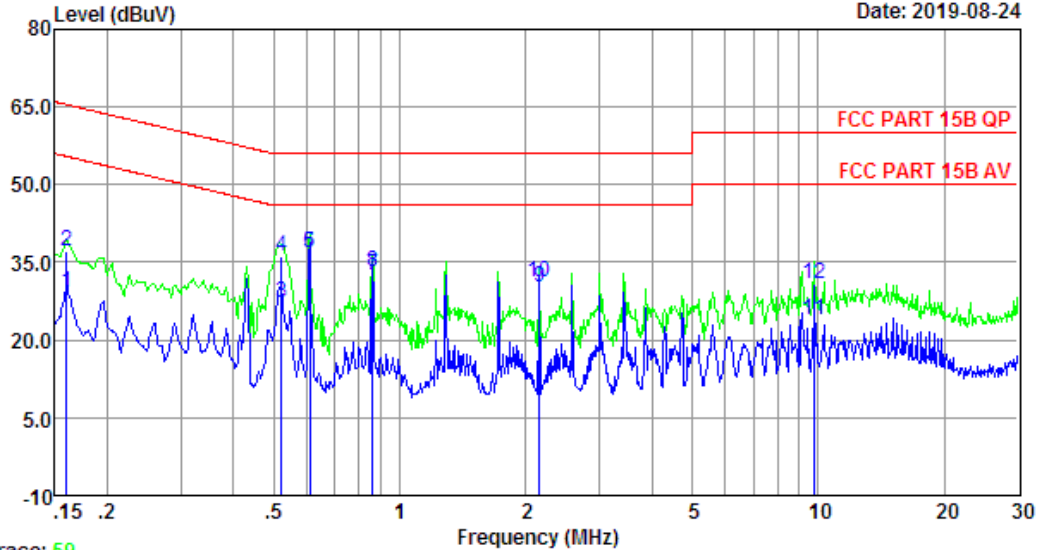
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Data: 60

File: \\Emc-ce-2\Test Data\2019\RF\Tingfeng.EM6 (64)

Date: 2019-08-24

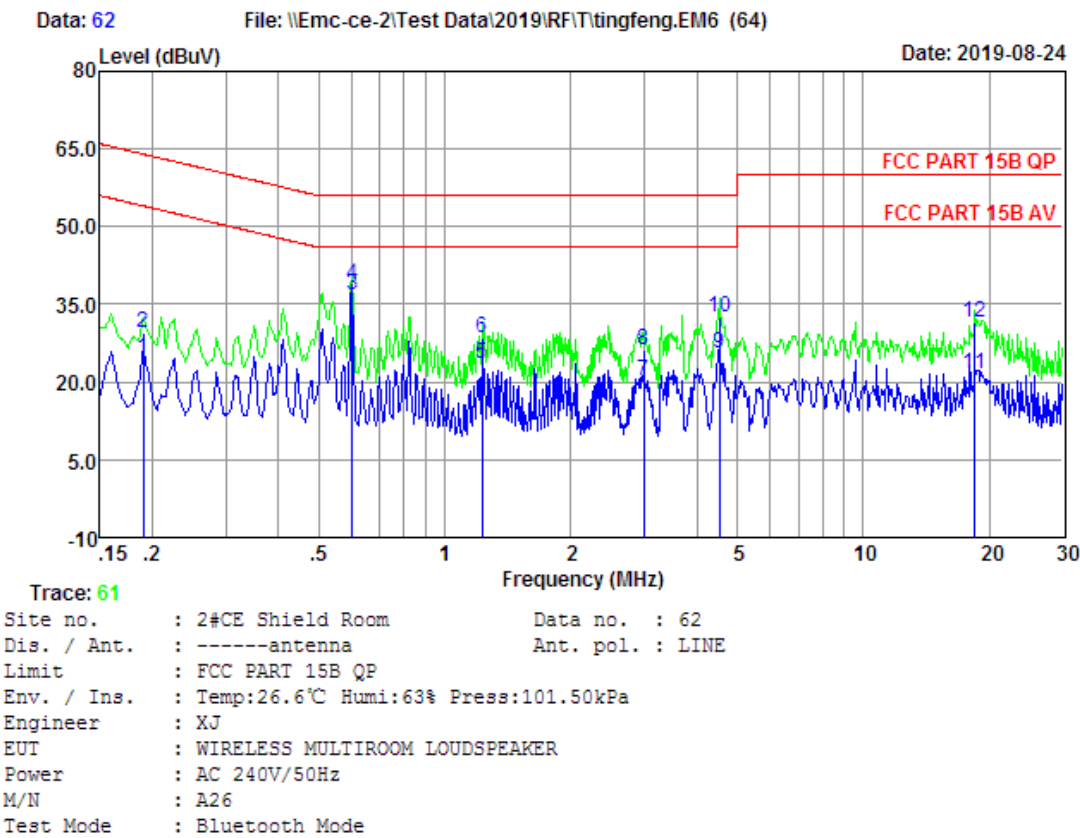


Trace: 59

Site no. : 2#CE Shield Room Data no. : 60  
Dis. / Ant. : -----antenna Ant. pol. : LINE  
Limit : FCC PART 15B QP  
Env. / Ins. : Temp:26.6°C Humi:63% Press:101.50kPa  
Engineer : XJ  
EUT : WIRELESS MULTIROOM LOUDSPEAKER  
Power : AC 230V/50Hz  
M/N : A36  
Test Mode : Bluetooth Mode

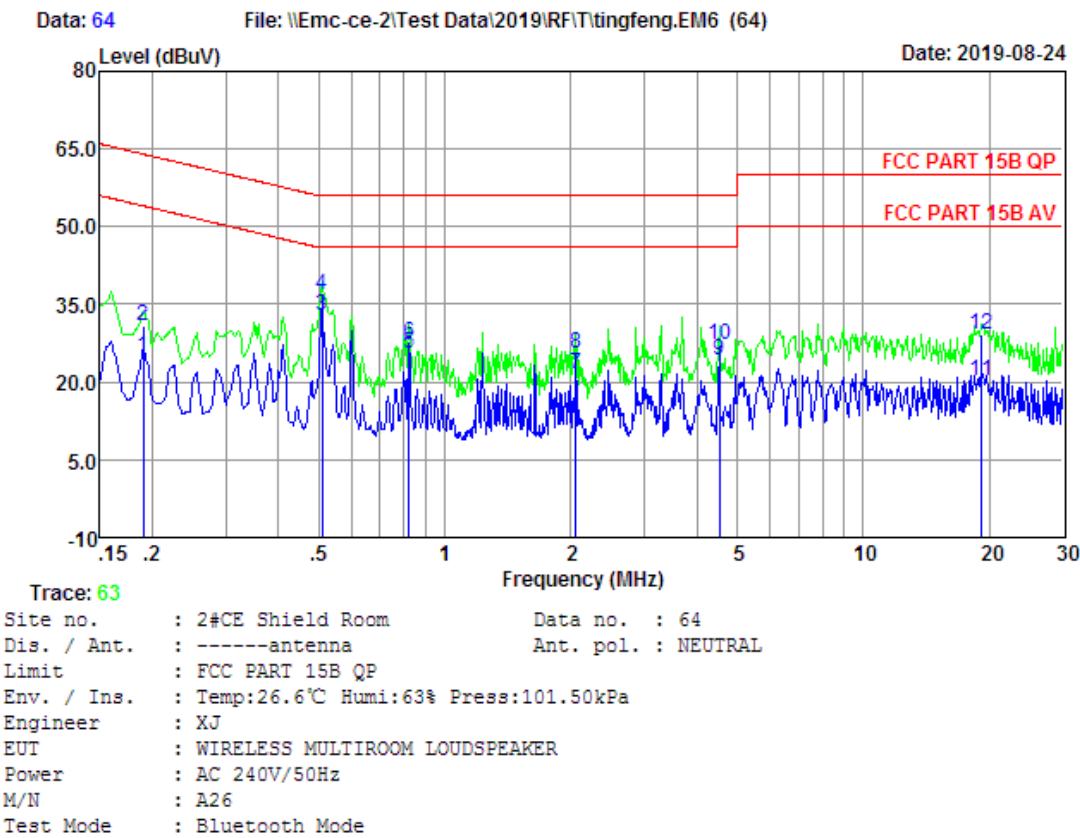
|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.16           | 9.68                   | 0.04                  | 19.32             | 29.04                       | 65.47            | 36.43          | Average |
| 2  | 0.16           | 9.68                   | 0.04                  | 27.30             | 37.02                       | 65.47            | 28.45          | QP      |
| 3  | 0.52           | 9.79                   | 0.05                  | 17.48             | 27.32                       | 56.00            | 28.68          | Average |
| 4  | 0.52           | 9.79                   | 0.05                  | 26.40             | 36.24                       | 56.00            | 19.76          | QP      |
| 5  | 0.61           | 9.81                   | 0.05                  | 26.88             | 36.74                       | 56.00            | 19.26          | Average |
| 6  | 0.61           | 9.81                   | 0.05                  | 26.81             | 36.67                       | 56.00            | 19.33          | QP      |
| 7  | 0.86           | 9.86                   | 0.05                  | 22.47             | 32.38                       | 56.00            | 23.62          | Average |
| 8  | 0.86           | 9.86                   | 0.05                  | 23.41             | 33.32                       | 56.00            | 22.68          | QP      |
| 9  | 2.16           | 9.85                   | 0.06                  | 20.20             | 30.11                       | 56.00            | 25.89          | Average |
| 10 | 2.16           | 9.85                   | 0.06                  | 21.20             | 31.11                       | 56.00            | 24.89          | QP      |
| 11 | 9.76           | 9.66                   | 0.08                  | 14.08             | 23.82                       | 60.00            | 36.18          | Average |
| 12 | 9.76           | 9.66                   | 0.08                  | 21.00             | 30.74                       | 60.00            | 29.26          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.



|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.19           | 9.69                   | 0.04                  | 14.72             | 24.45                       | 64.02            | 39.57          | Average |
| 2  | 0.19           | 9.69                   | 0.04                  | 19.70             | 29.43                       | 64.02            | 34.59          | QP      |
| 3  | 0.60           | 9.81                   | 0.05                  | 27.08             | 36.94                       | 56.00            | 19.06          | Average |
| 4  | 0.60           | 9.81                   | 0.05                  | 29.01             | 38.87                       | 56.00            | 17.13          | QP      |
| 5  | 1.23           | 9.88                   | 0.06                  | 13.76             | 23.70                       | 56.00            | 32.30          | Average |
| 6  | 1.23           | 9.88                   | 0.06                  | 18.70             | 28.64                       | 56.00            | 27.36          | QP      |
| 7  | 2.99           | 9.88                   | 0.07                  | 10.37             | 20.32                       | 56.00            | 35.68          | Average |
| 8  | 2.99           | 9.88                   | 0.07                  | 16.30             | 26.25                       | 56.00            | 29.75          | QP      |
| 9  | 4.53           | 10.02                  | 0.07                  | 15.54             | 25.63                       | 56.00            | 30.37          | Average |
| 10 | 4.53           | 10.02                  | 0.07                  | 22.50             | 32.59                       | 56.00            | 23.41          | QP      |
| 11 | 18.52          | 10.01                  | 0.09                  | 11.50             | 21.60                       | 60.00            | 38.40          | Average |
| 12 | 18.52          | 10.01                  | 0.09                  | 21.49             | 31.59                       | 60.00            | 28.41          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.



|    | Freq.<br>(MHz) | LISN<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Reading<br>(dBuV) | Emission<br>Level<br>(dBuV) | Limits<br>(dBuV) | Margin<br>(dB) | Remark  |
|----|----------------|------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1  | 0.19           | 9.65                   | 0.04                  | 15.13             | 24.82                       | 64.02            | 39.20          | Average |
| 2  | 0.19           | 9.65                   | 0.04                  | 21.10             | 30.79                       | 64.02            | 33.23          | QP      |
| 3  | 0.51           | 9.70                   | 0.05                  | 23.07             | 32.82                       | 56.00            | 23.18          | Average |
| 4  | 0.51           | 9.70                   | 0.05                  | 27.00             | 36.75                       | 56.00            | 19.25          | QP      |
| 5  | 0.82           | 9.73                   | 0.05                  | 15.61             | 25.39                       | 56.00            | 30.61          | Average |
| 6  | 0.82           | 9.73                   | 0.05                  | 17.60             | 27.38                       | 56.00            | 28.62          | QP      |
| 7  | 2.05           | 9.80                   | 0.06                  | 11.85             | 21.71                       | 56.00            | 34.29          | Average |
| 8  | 2.05           | 9.80                   | 0.06                  | 15.80             | 25.66                       | 56.00            | 30.34          | QP      |
| 9  | 4.53           | 9.93                   | 0.07                  | 14.27             | 24.27                       | 56.00            | 31.73          | Average |
| 10 | 4.53           | 9.93                   | 0.07                  | 17.20             | 27.20                       | 56.00            | 28.80          | QP      |
| 11 | 19.22          | 10.00                  | 0.09                  | 10.18             | 20.27                       | 60.00            | 39.73          | Average |
| 12 | 19.22          | 10.00                  | 0.09                  | 19.20             | 29.29                       | 60.00            | 30.71          | QP      |

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
2. Margin= Limit - Emission Level.  
3. If the average limit is met when using a quasi-peak detector,  
the EUT shall be deemed to meet both limits and measurement  
with average detector is unnecessary.

## 12. ANTENNA REQUIREMENTS

### 12.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

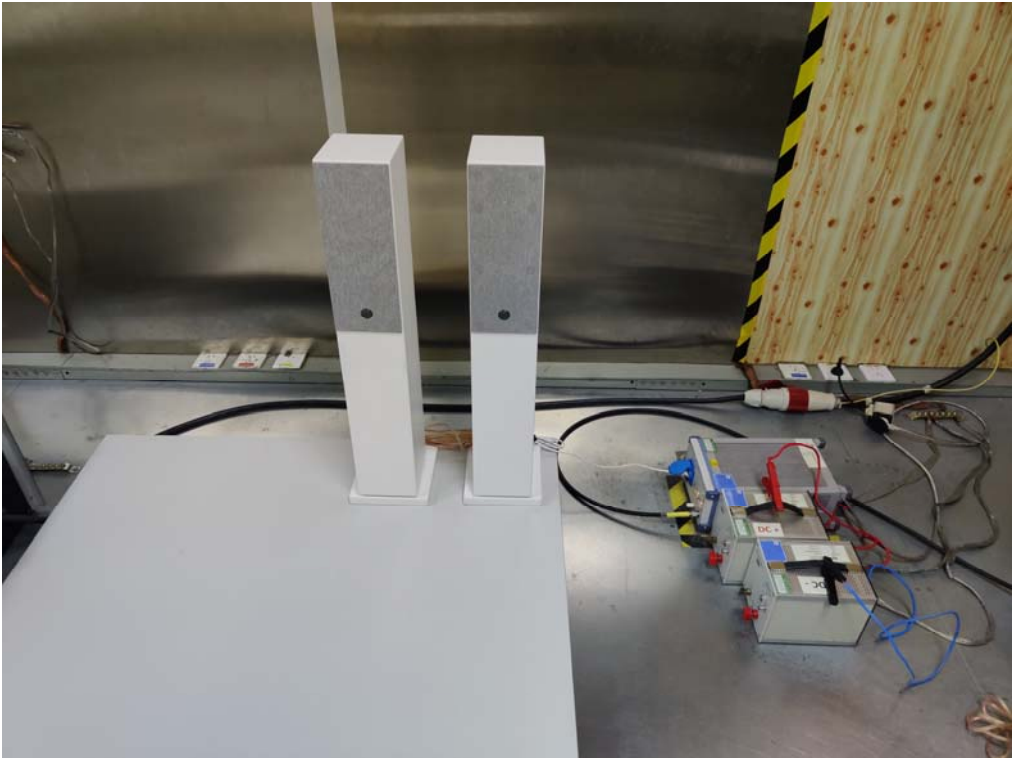
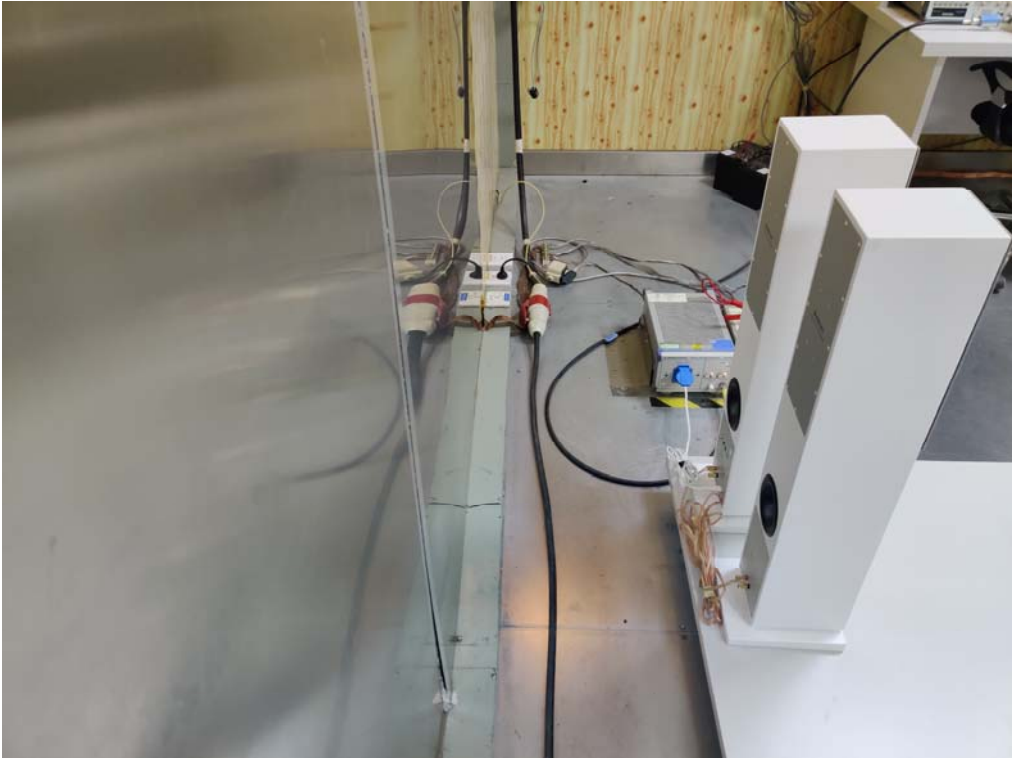
### 12.2. Test Result

The antennas used for this product is PCB antenna ,so compliance with antenna requirements.  
( Please refer to the EUT photo for details)

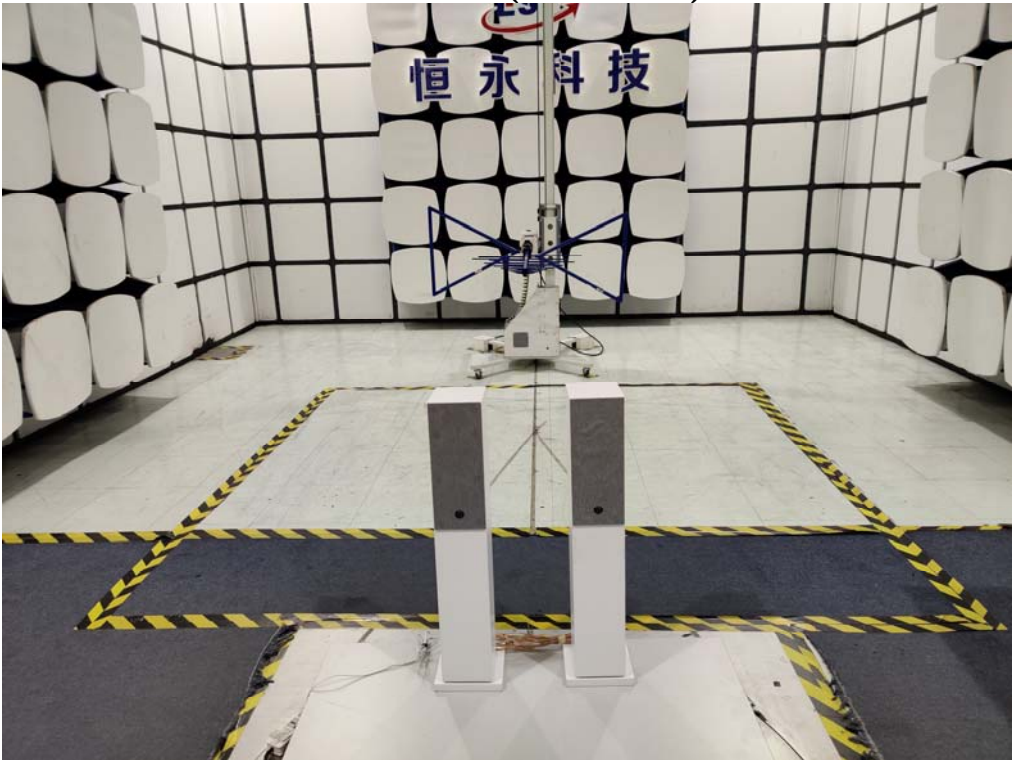
13. TEST SETUP PHOTO

Test Model No.: A36

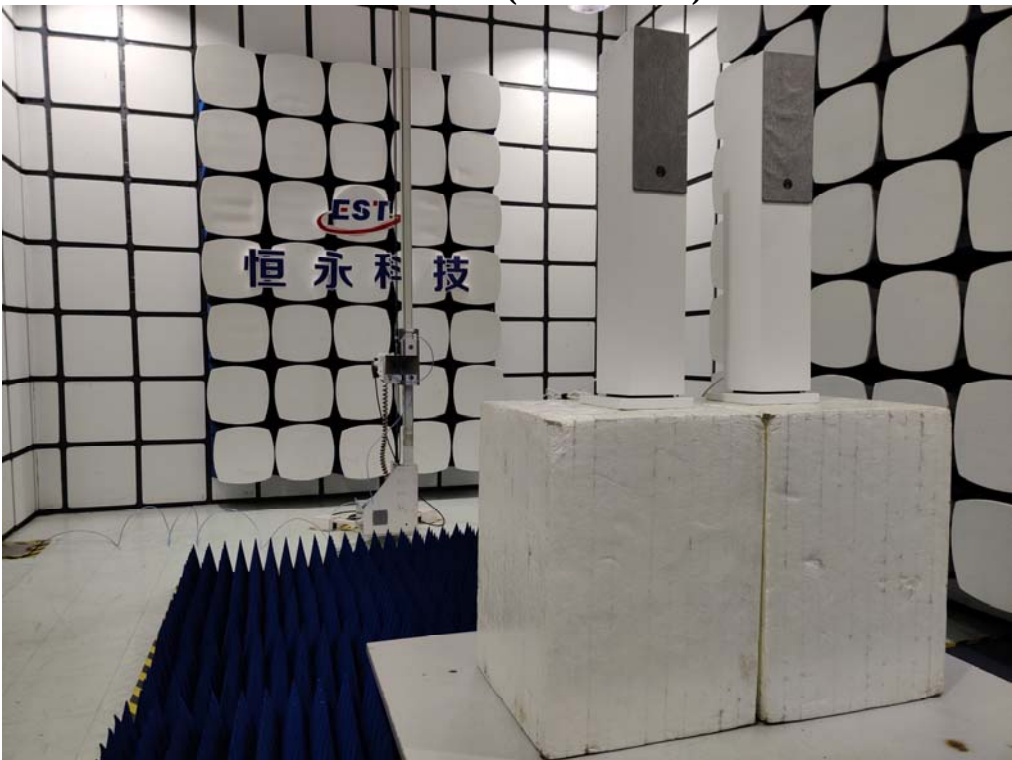
Conducted Test



Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)



14.PHOTO EUT

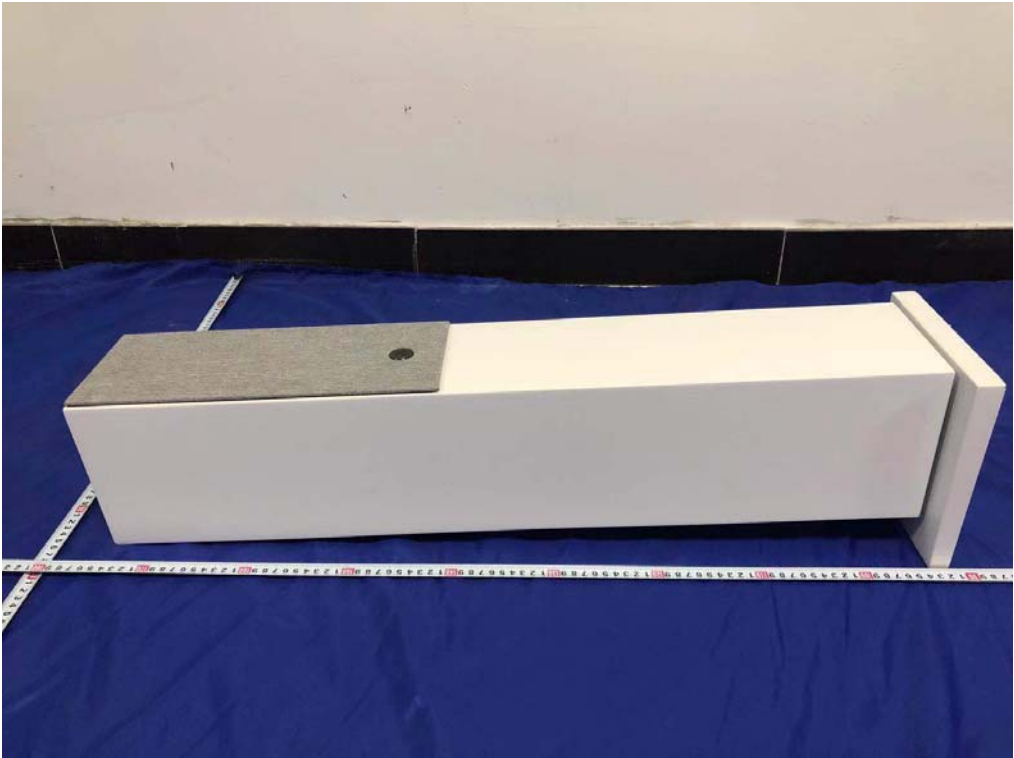
M/N: A36  
External Photos



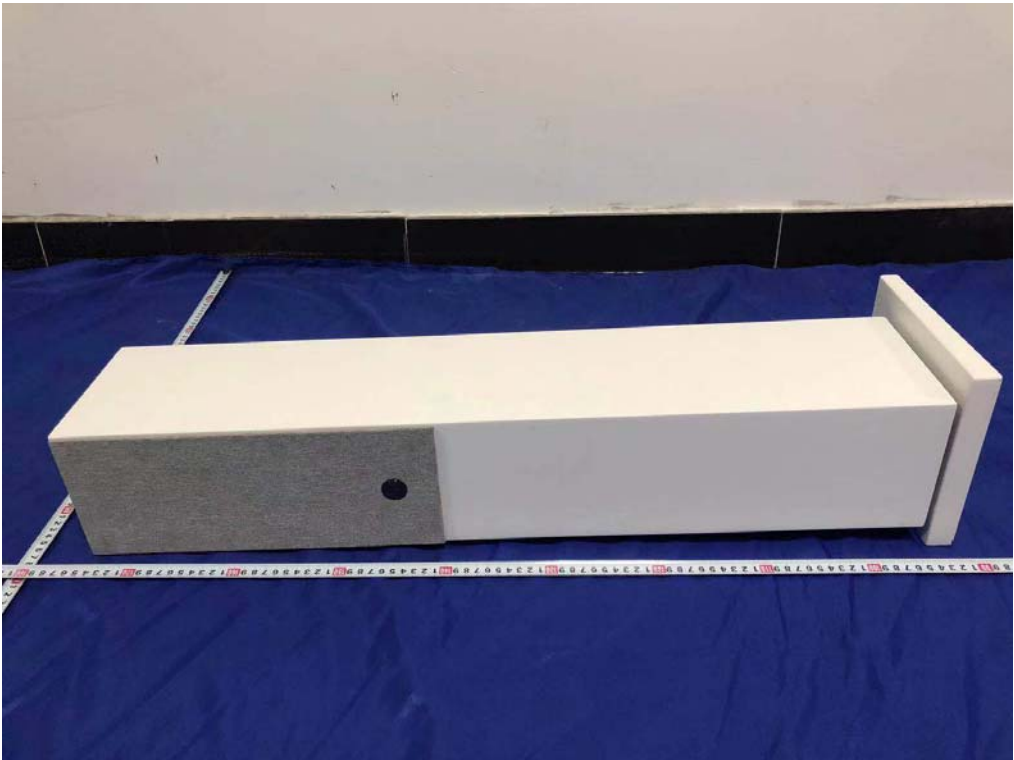
External Photos



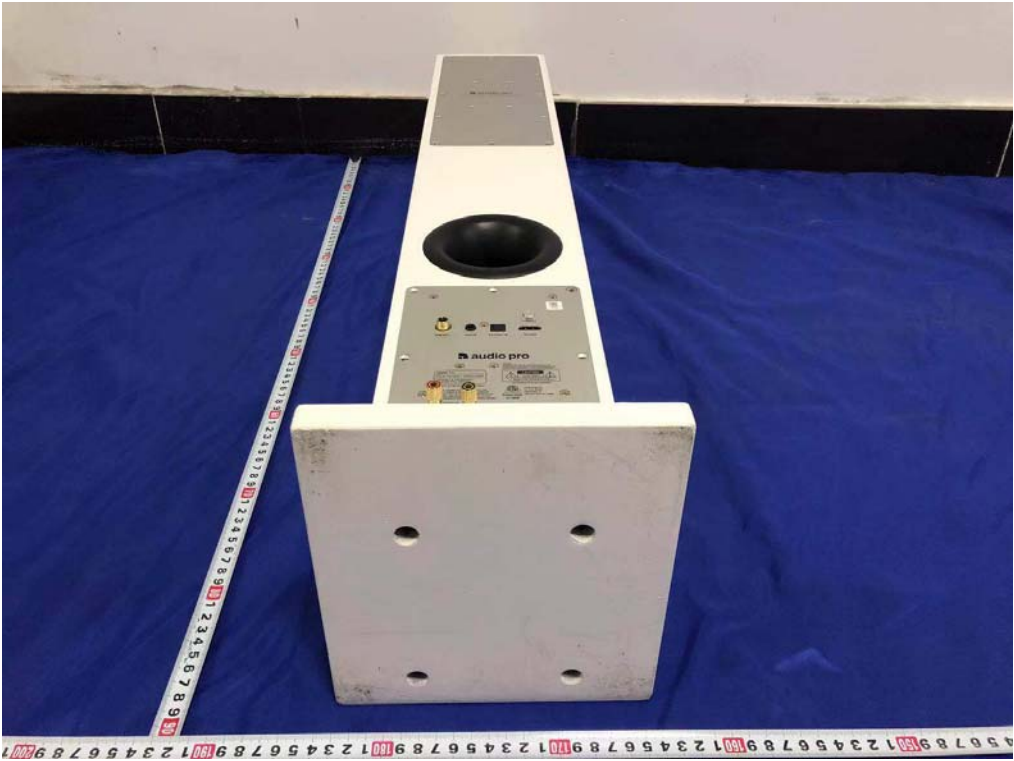
External Photos



External Photos



External Photos



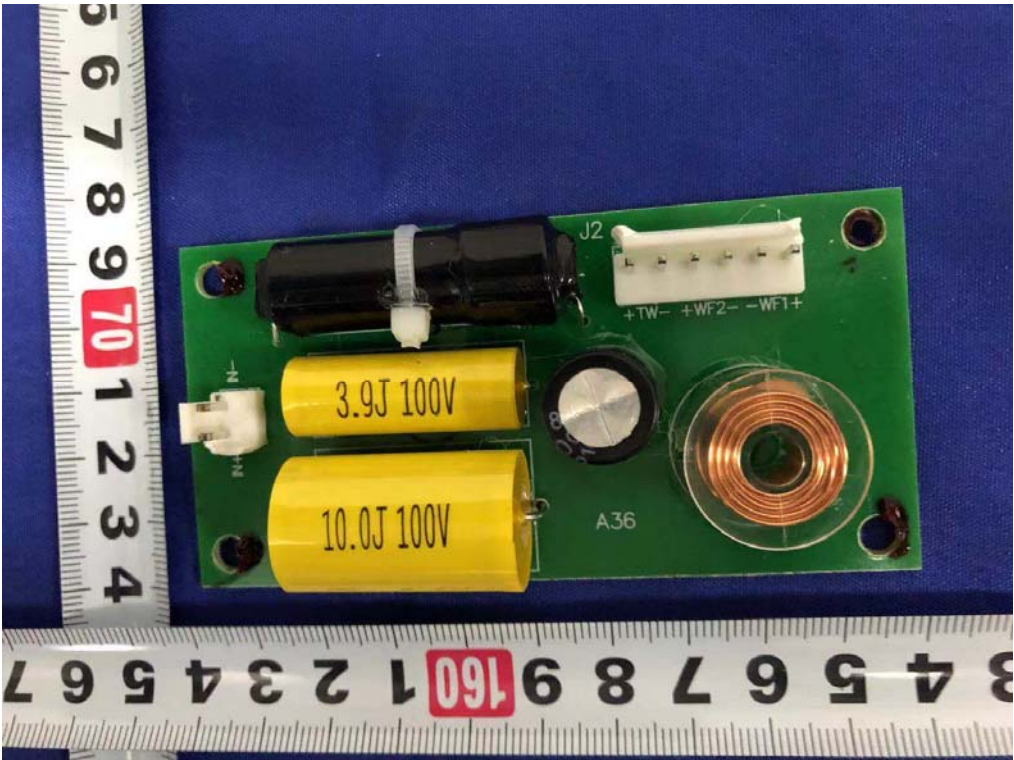
External Photos



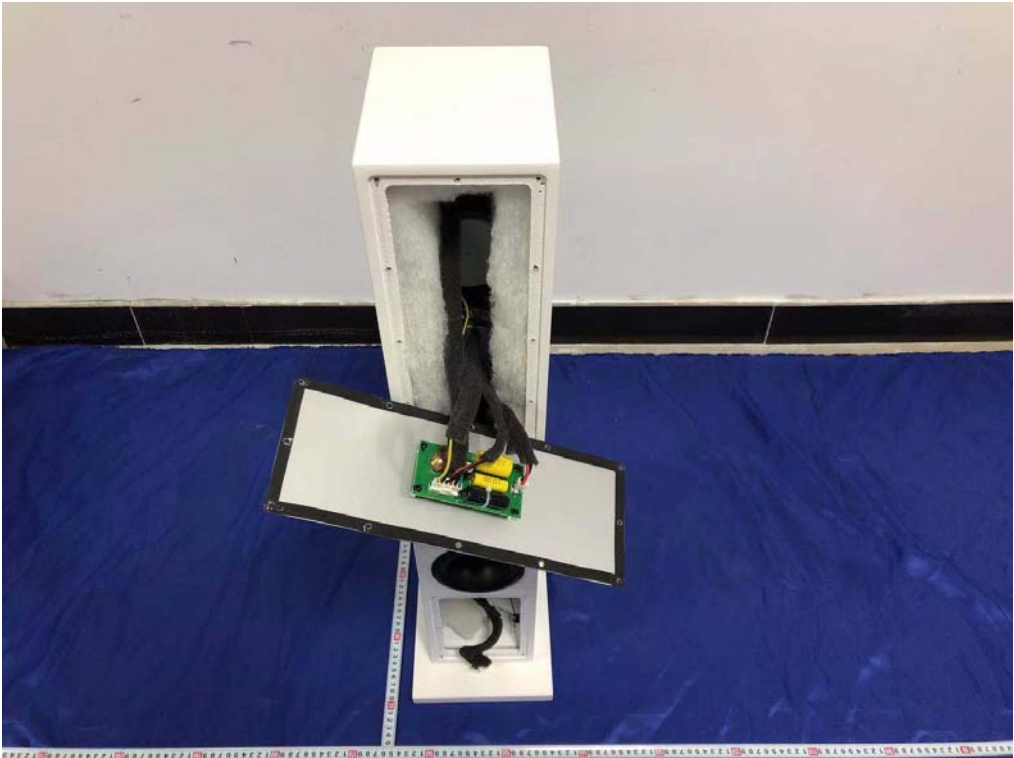
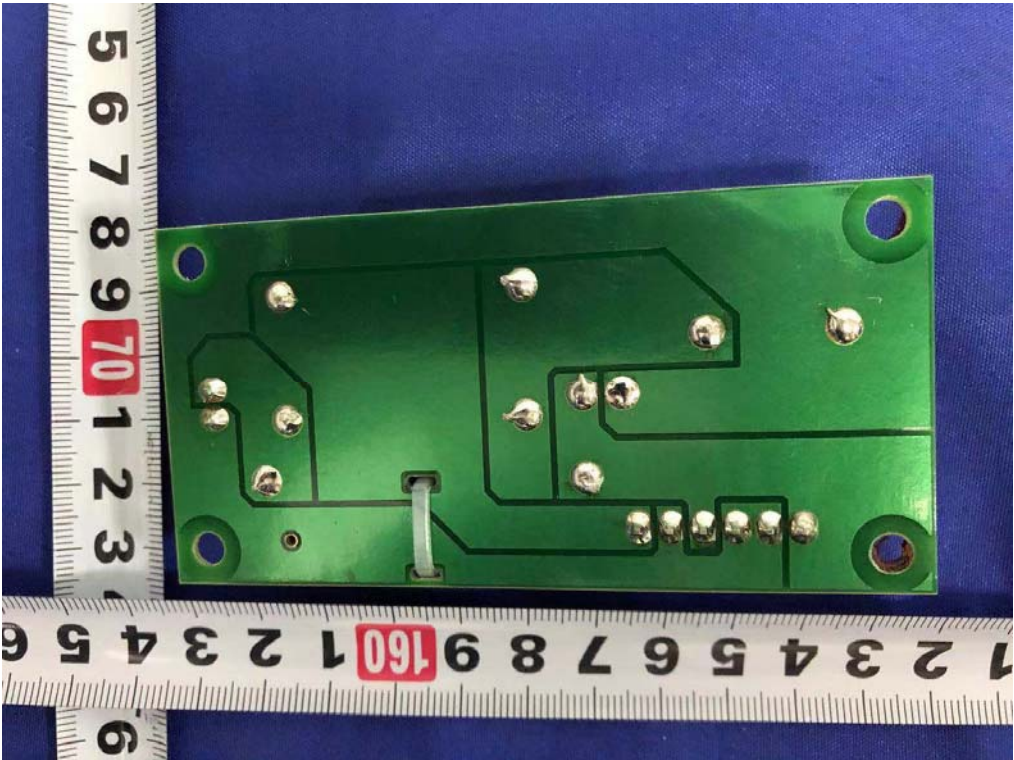
External Photos



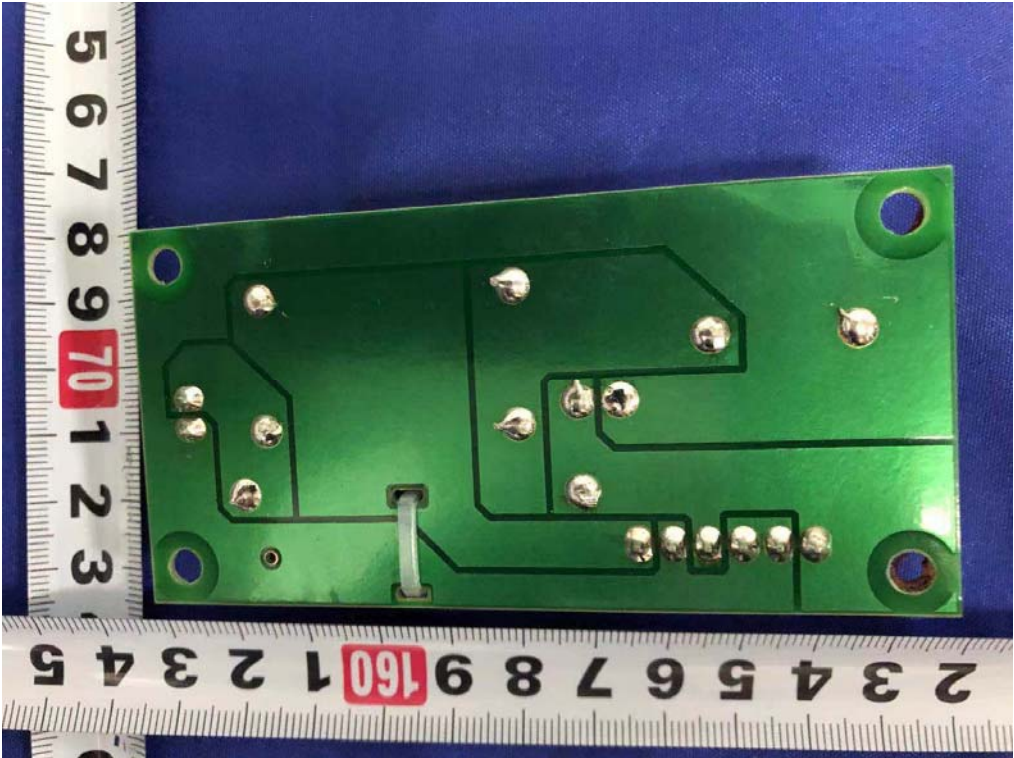
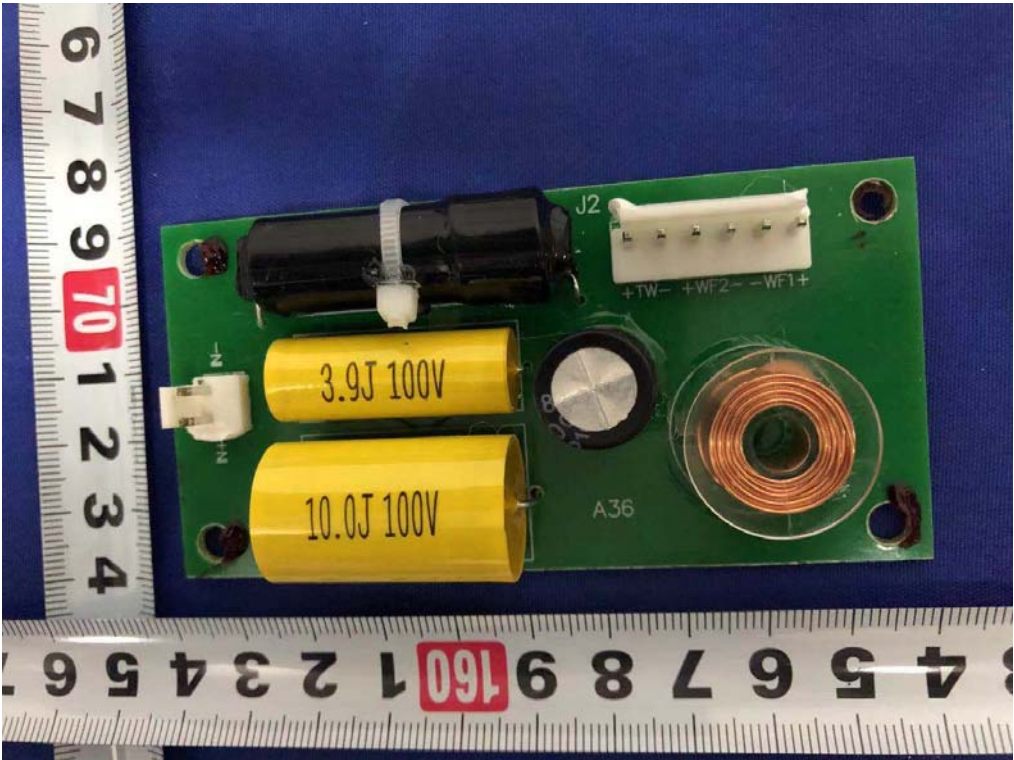
Internal Photos



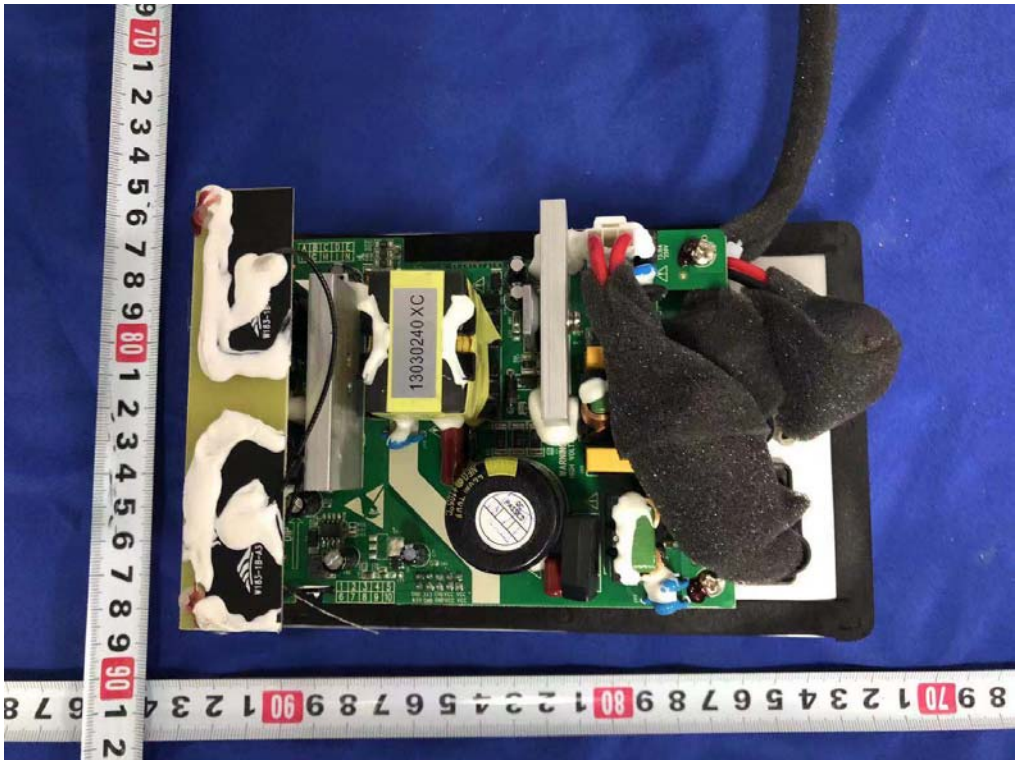
Internal Photos



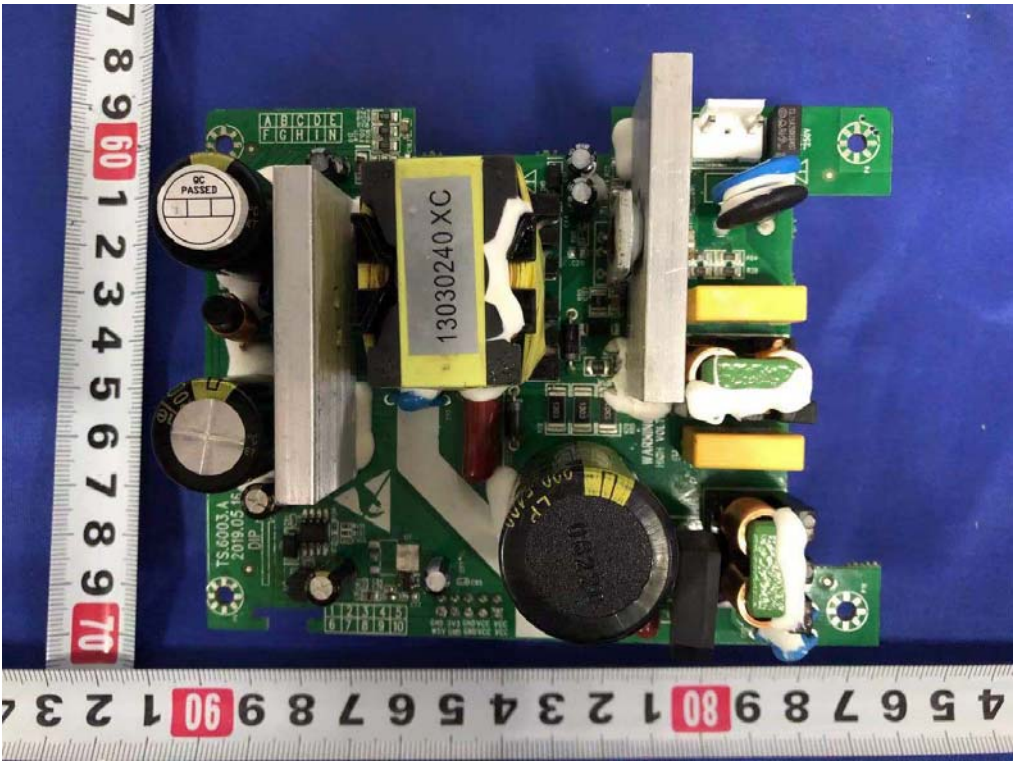
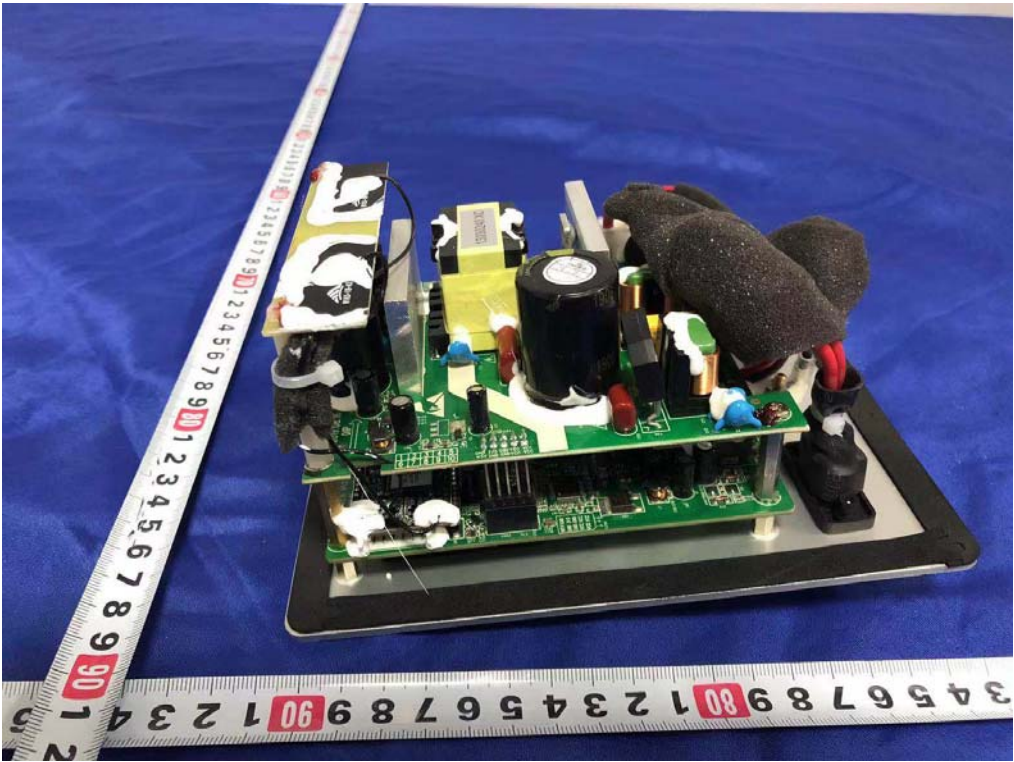
Internal Photos



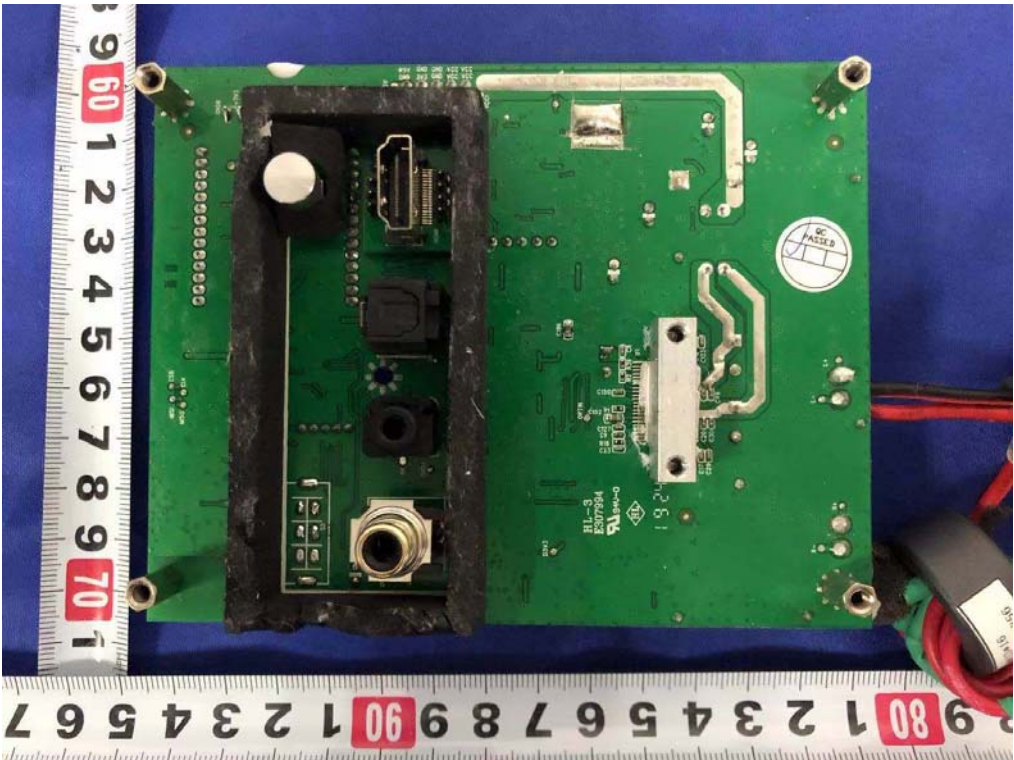
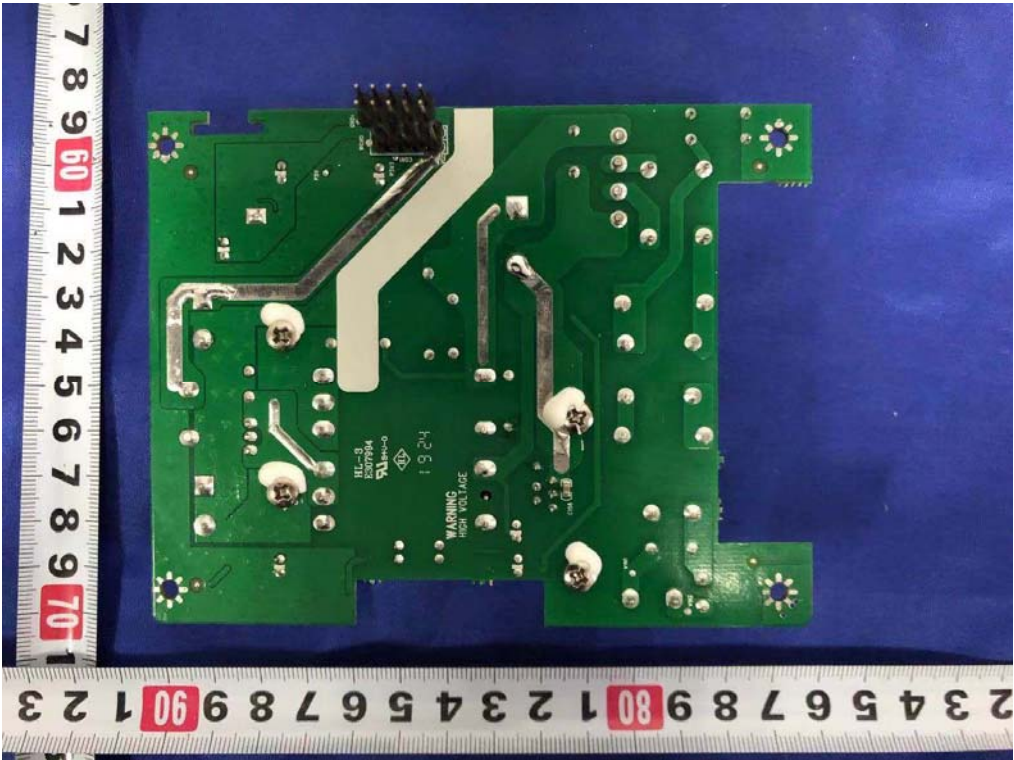
Internal Photos



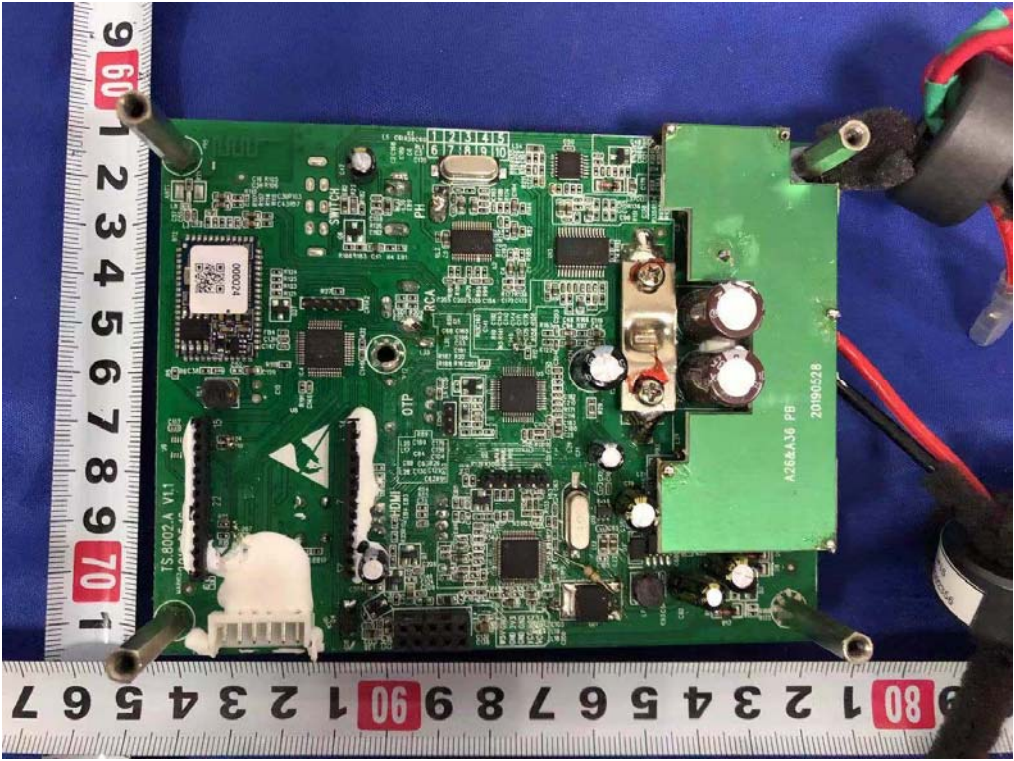
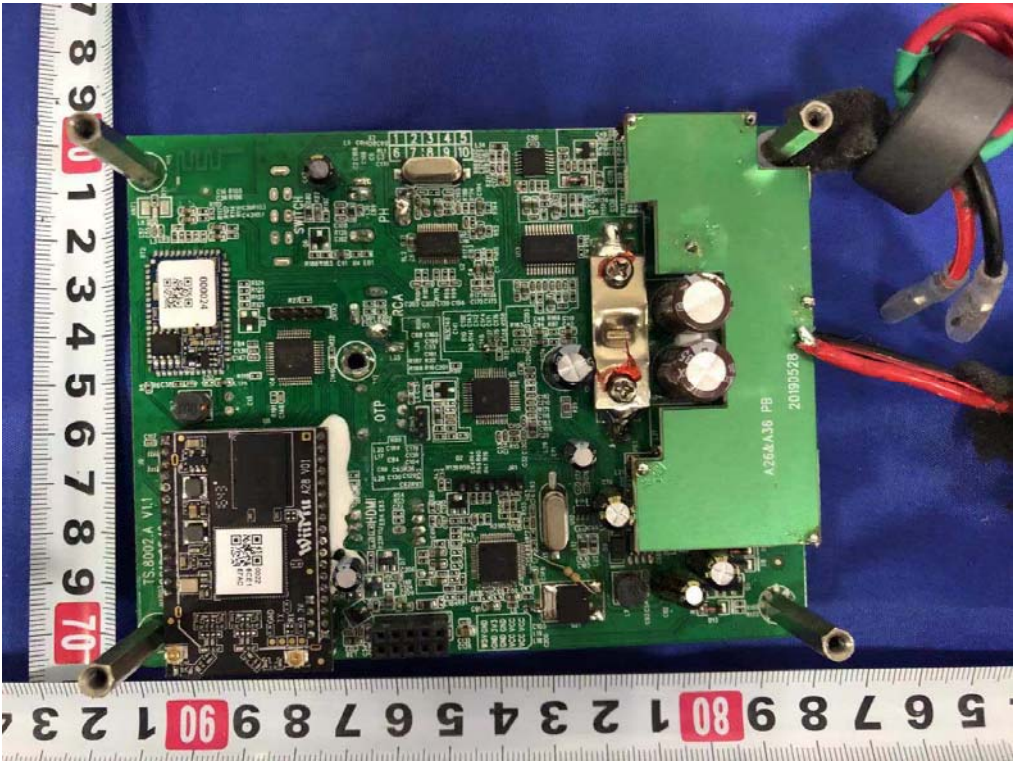
Internal Photos



Internal Photos

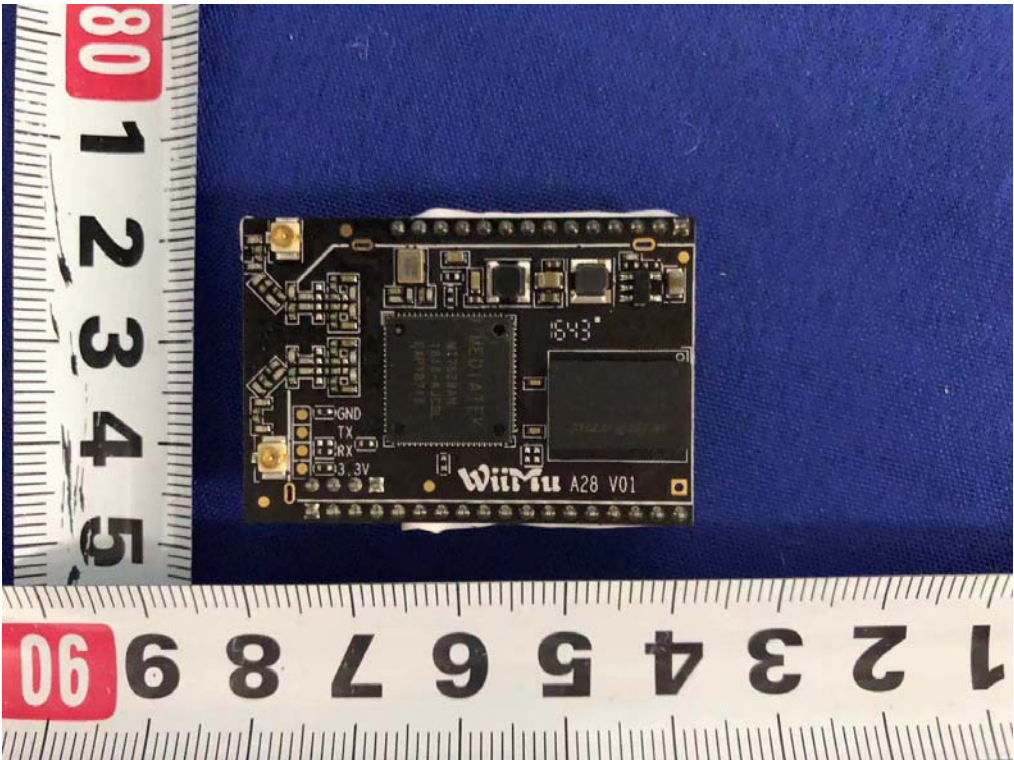
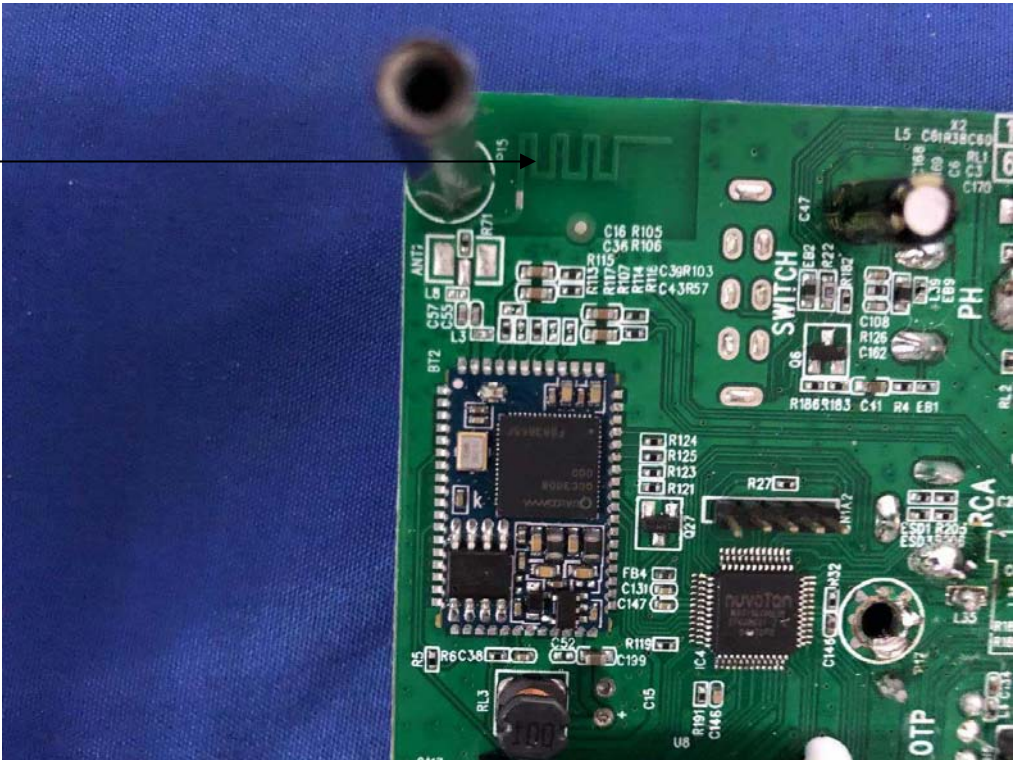


Internal Photos

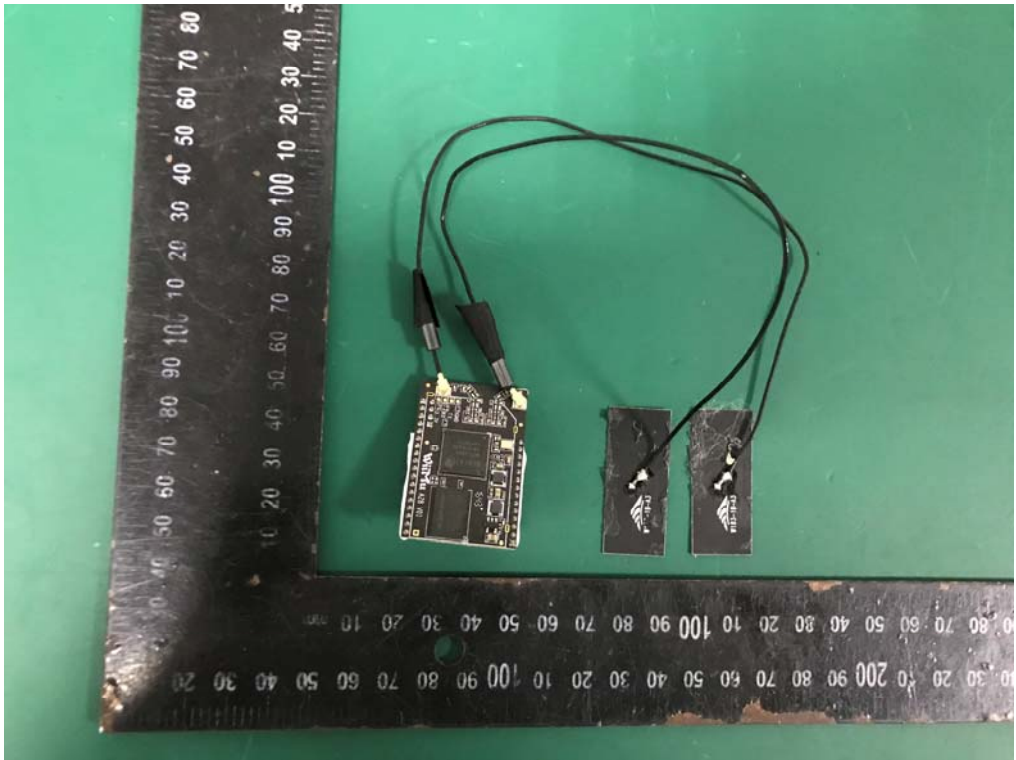
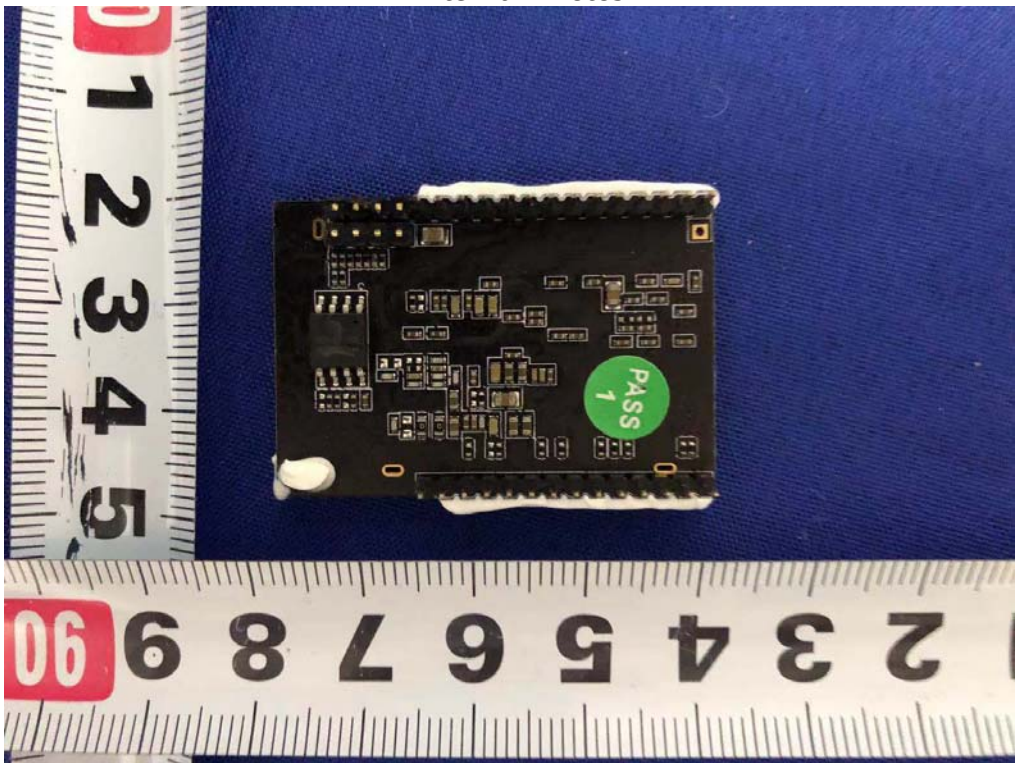


Internal Photos

Bluetooth  
Antenna



Internal Photos



End of Test Report