

# FCC Test Report

**Applicant** : TELEPHONE EST (HK) CO., LTD

**Address** : Room709, 7F, FuLi tianhe commercial building,  
: Linhe, East Road and tianhe district,  
Guangzhou, China

**Product Name** : 15W Foldable Wireless Charging Stand

**Report Date** : Sept. 22, 2023

**Shenzhen Anbotek Compliance Laboratory Limited**



**Shenzhen Anbotek Compliance Laboratory Limited**

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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Report No.: 18220WC30191401

FCC-ID: 2ACE5-IH2126

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# TEST REPORT

Applicant : TELEPHONE EST (HK) CO., LTD  
Manufacturer : Telephone Est Electronics Factory (Zhong Shan)  
Product Name : 15W Foldable Wireless Charging Stand  
Test Model No. : 2IHQI2126  
Reference Model No. : 2IHQI2126B0L2  
Trade Mark : N/A  
Rating(s) : Input: 5V $\overline{=}$  2A, 9V/2A  
Output:15W  
**Test Standard(s) : 47 CFR Part 15.209**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: Sept. 05, 2023

Date of Test: Sept. 05, 2023 to Sept. 14, 2023

Prepared By:

*Stella Zhu*

(Stella Zhu)

Approved & Authorized Signer:

*Edward Pan*

(Edward Pan)

## Shenzhen Anbotek Compliance Laboratory Limited

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**Revision History**

| Report Version | Description     | Issued Date    |
|----------------|-----------------|----------------|
| R00            | Original Issue. | Sept. 22, 2023 |
|                |                 |                |
|                |                 |                |

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## 1. General Information

### 1.1. Client Information

|              |   |   |
|--------------|---|---|
| Applicant    | : | TELEPHONE EST (HK) CO., LTD   |
| Address      | : | Room709, 7F, FuLi tianhe commercial building, Linhe, East Road and tianhe district, Guangzhou, Chinas |
| Manufacturer | : | Telephone Est Electronics Factory (Zhong Shan)  |
| Address      | : | No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China   |
| Factory      | : | Telephone Est Electronics Factory (Zhong Shan)  |
| Address      | : | No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China   |

### 1.2. Description of Device (EUT)

|                     |   |   |
|---------------------|---|---|
| Product Name        | : | 15W Foldable Wireless Charging Stand  |
| Test Model No.      | : | 2IHQI2126   |
| Reference Model No. | : | 2IHQI2126B0L2<br>(Note: All samples are the same except the model number and color, so we prepare "2IHQI2126" for test only.) |
| Trade Mark          | : | N/A   |
| Test Power Supply   | : | AC 120V, 60Hz for Adapter   |
| Test Sample No.     | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)   |
| Adapter             | : | N/A   |

#### RF Specification

|                     |   |                             |
|---------------------|---|-----------------------------|
| Operation Frequency | : | 110.1-205kHz                |
| Modulation Type     | : | FSK                         |
| Antenna Type        | : | Inductive loop coil Antenna |
| Antenna Gain(Peak)  | : | 0 dBi                       |

#### Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



**1.3. Auxiliary Equipment Used During Test**

| Title              | Manufacturer | Model No.  | Serial No.      |
|--------------------|--------------|--|-----------------|
| Wireless load      | BAECOAR      | 15W Smart wireless charger fixture wireless charging | /               |
| Xiaomi 33W adapter | Xiaomi       | MDY-11-EX  | SA62212LA04358J |

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#### 1.4. Description of Test Modes


| Pretest Modes | Descriptions |
|---------------|--------------|
| TM1           | WTP Mode     |

#### 1.5. Measurement Uncertainty

| Parameter   | Uncertainty                          |
|---|--------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz)  | 3.4dB                                |
| Radiated emissions (Below 30MHz)  | 3.53dB                               |
| Radiated spurious emissions (30MHz~1GHz)  | Horizontal: 3.92dB; Vertical: 4.52dB |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.<br>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                      |

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**1.6. Test Summary**

| Test Items                                  | Test Modes | Status |
|---|------------|--------|
| Antenna requirement                         | /          | P      |
| Conducted Emission at AC power line         | Mode1      | P      |
| Emissions in frequency bands (below 30MHz)  | Mode1      | P      |
| Emissions in frequency bands (30MHz - 1GHz) | Mode1      | P      |
| Note:<br>P: Pass<br>N: N/A, not applicable  |            |        |

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### 1.7. Description of Test Facility

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

#### **FCC-Registration No.:184111**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111.

#### **ISED-Registration No.: 8058A**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518128

### 1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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**1.9. Test Equipment List**

| Conducted Emission at AC power line |   |                  |           |               |            |              |
|-------------------------------------|---|------------------|-----------|---------------|------------|--------------|
| Item                                | Equipment                                   | Manufacturer     | Model No. | Serial No.    | Last Cal.  | Cal.Due Date |
| 1                                   | L.I.S.N. Artificial Mains Network           | Rohde & Schwarz  | ENV216    | 100055        | 2022-10-23 | 2023-10-22   |
| 2                                   | Three Phase V-type Artificial Power Network | CYBERTEK         | EM5040DT  | E215040D T001 | 2023-07-05 | 2024-07-04   |
| 3                                   | EMI Test Receiver                           | Rohde & Schwarz  | ESCI      | 100627        | 2022-10-13 | 2023-10-12   |
| 4                                   | Software Name EZ-EMC                        | Farad Technology | ANB-03A   | N/A           | /          | /            |

| Emissions in frequency bands (below 30MHz) |                       |                  |            |            |            |              |
|--|-----------------------|------------------|------------|------------|------------|--------------|
| Item                                       | Equipment             | Manufacturer     | Model No.  | Serial No. | Last Cal.  | Cal.Due Date |
| 1  | EMI Test Receiver     | Rohde & Schwarz  | ESPI7      | 101340     | 2023-02-22 | 2024-02-21   |
| 2  | Pre-amplifier         | Emtrace          | RP01A      | 00517      | 2023-02-22 | 2024-02-21   |
| 3  | Loop Antenna (9K-30M) | Schwarzbeck      | FMZB1519 B | 00053      | 2022-10-23 | 2023-10-22   |
| 4  | Software Name EZ-EMC  | Farad Technology | ANB-03A    | N/A        | /          | /            |

| Emissions in frequency bands (30MHz - 1GHz) |                          |                 |           |            |            |              |
|---|--------------------------|-----------------|-----------|------------|------------|--------------|
| Item  | Equipment                | Manufacturer    | Model No. | Serial No. | Last Cal.  | Cal.Due Date |
| 1   | EMI Test Receiver        | Rohde & Schwarz | ESR26     | 101481     | 2022-10-23 | 2023-10-22   |
| 2   | Pre-amplifier            | SONOMA          | 310N      | 186860     | 2022-10-23 | 2023-10-22   |
| 3   | Bilog Broadband Antenna  | Schwarzbeck     | VULB9163  | 345        | 2022-10-23 | 2025-10-22   |
| 4   | EMI Test Software EZ-EMC | SHURPLE         | N/A       | N/A        | /          | /            |

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## 2. Antenna requirement

**Test Requirement:**

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### 2.1. Conclusion

The antenna is a Inductive loop coil Antenna antenna which permanently attached, and the best case gain of the antenna is 0 dBi . It complies with the standard requirement.





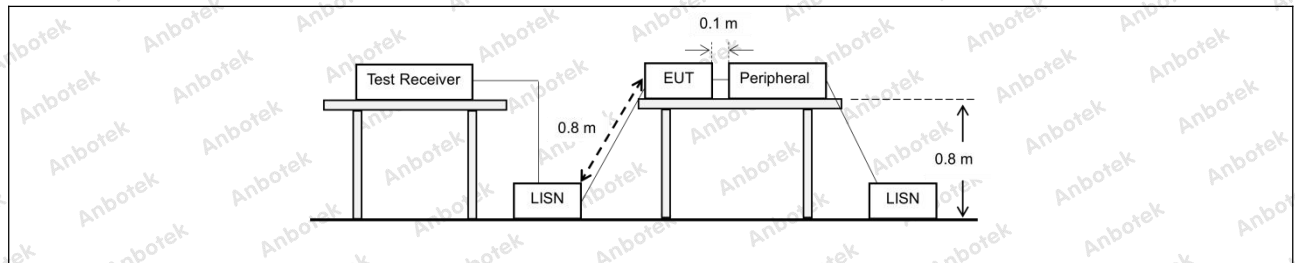
### 3. Conducted Emission at AC power line

|                   |  |                              |           |
|-------------------|--|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit:       | Frequency of emission (MHz)  | Conducted limit (dB $\mu$ V) |           |
|                   |  | Quasi-peak                   | Average   |
|                   | 0.15-0.5   | 66 to 56*                    | 56 to 46* |
|                   | 0.5-5  | 56                           | 46        |
|                   | 5-30   | 60                           | 50        |
|                   | *Decreases with the logarithm of the frequency.  |                              |           |
| Test Method:      | ANSI C63.10-2020 section 6.2   |                              |           |
| Procedure:        | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices   |                              |           |

#### 3.1. EUT Operation

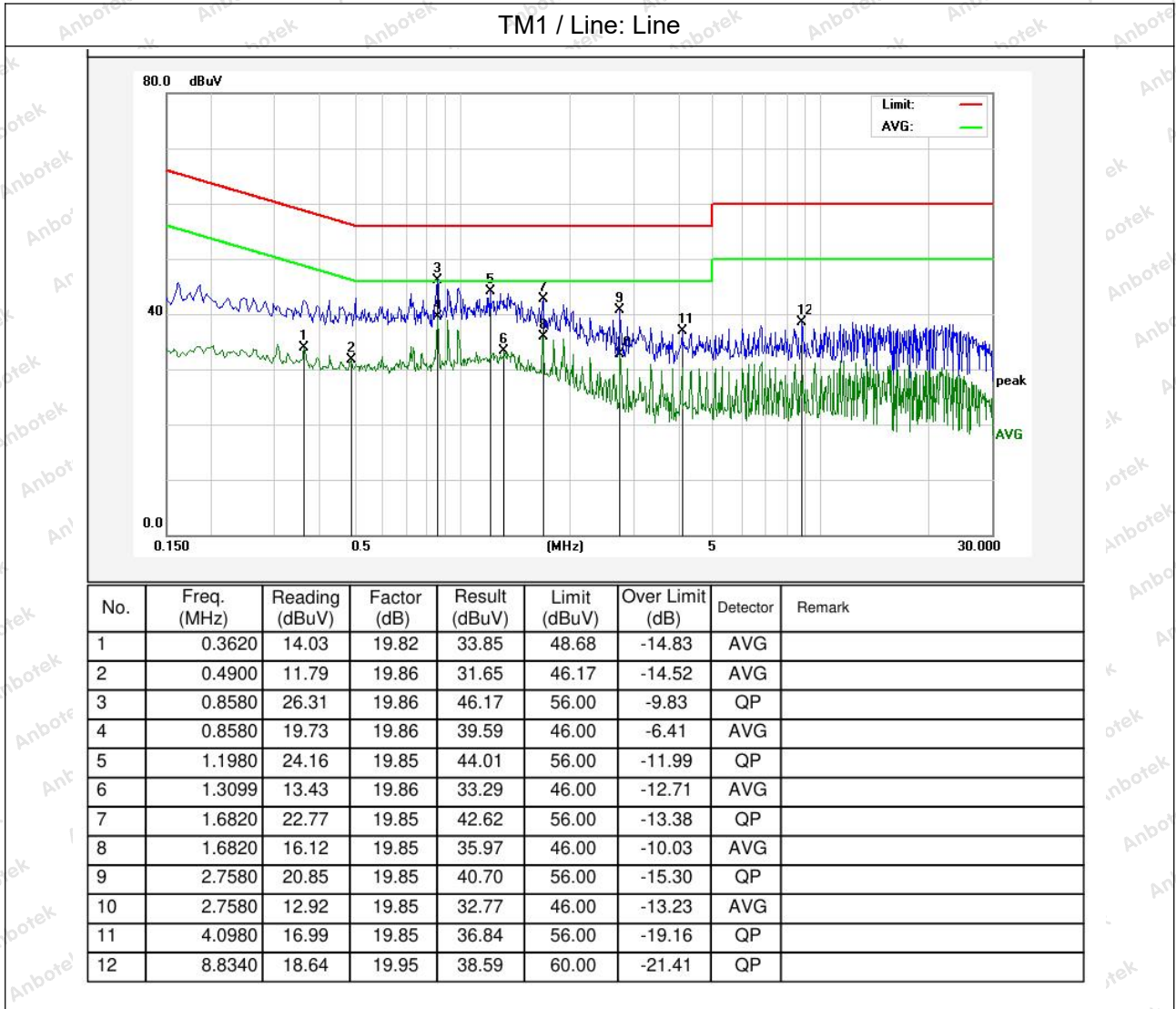
|                        |                  |
|------------------------|------------------|
| Operating Environment: |                  |
| Test mode:             | 1: TM1: WTP Mode |

#### 3.2. Test Setup



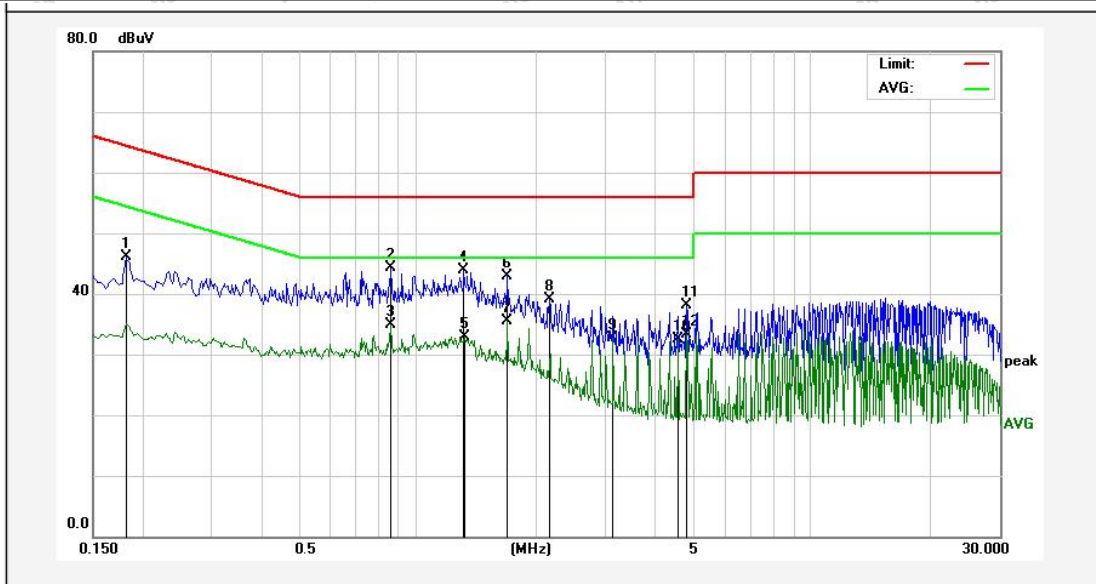
### 3.3. Test Data

|              |         |           |      |                       |        |
|--------------|---------|-----------|------|-----------------------|--------|
| Temperature: | 24.5 °C | Humidity: | 63 % | Atmospheric Pressure: | 97 kPa |
|--------------|---------|-----------|------|-----------------------|--------|



|              |         |           |      |                       |        |
|--------------|---------|-----------|------|-----------------------|--------|
| Temperature: | 24.5 °C | Humidity: | 63 % | Atmospheric Pressure: | 97 kPa |
|--------------|---------|-----------|------|-----------------------|--------|

TM1 / Line: Neutral



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV) | Over Limit (dB) | Detector | Remark |
|-----|-------------|----------------|-------------|---------------|--------------|-----------------|----------|--------|
| 1   | 0.1819      | 26.19          | 19.82       | 46.01         | 64.39        | -18.38          | QP       |        |
| 2   | 0.8580      | 24.41          | 19.86       | 44.27         | 56.00        | -11.73          | QP       |        |
| 3   | 0.8580      | 14.96          | 19.86       | 34.82         | 46.00        | -11.18          | AVG      |        |
| 4   | 1.3140      | 24.05          | 19.86       | 43.91         | 56.00        | -12.09          | QP       |        |
| 5   | 1.3220      | 12.98          | 19.86       | 32.84         | 46.00        | -13.16          | AVG      |        |
| 6   | 1.6900      | 23.13          | 19.85       | 42.98         | 56.00        | -13.02          | QP       |        |
| 7   | 1.6900      | 15.67          | 19.85       | 35.52         | 46.00        | -10.48          | AVG      |        |
| 8   | 2.1660      | 19.18          | 19.85       | 39.03         | 56.00        | -16.97          | QP       |        |
| 9   | 3.1380      | 12.88          | 19.85       | 32.73         | 46.00        | -13.27          | AVG      |        |
| 10  | 4.5860      | 12.60          | 19.86       | 32.46         | 46.00        | -13.54          | AVG      |        |
| 11  | 4.8220      | 18.17          | 19.86       | 38.03         | 56.00        | -17.97          | QP       |        |
| 12  | 4.8220      | 13.46          | 19.86       | 33.32         | 46.00        | -12.68          | AVG      |        |

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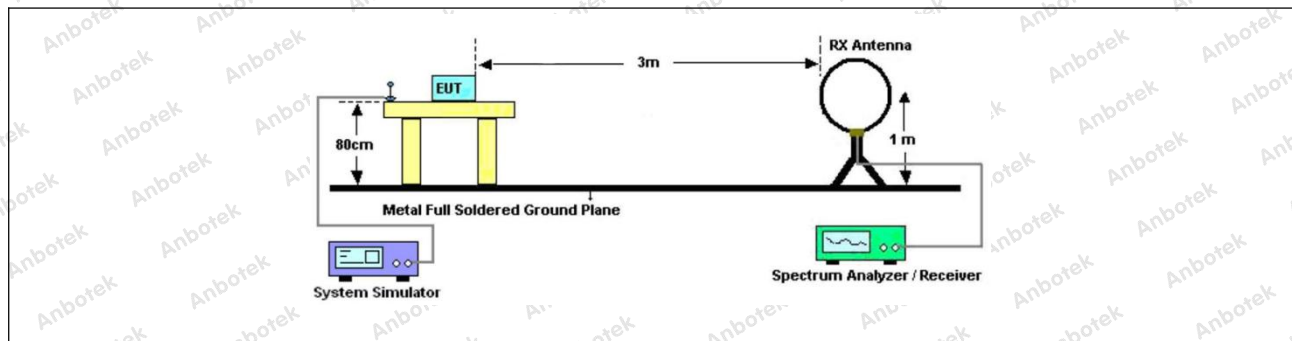
## 4. Emissions in frequency bands (below 30MHz)

|   |                              |                                   |                               |
|---|------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:   | 47 CFR Part 15.209           |                                   |                               |
| Test Limit:   | Frequency (MHz)              | Field strength (microvolts/meter) | Measurement distance (meters) |
|   | 0.009-0.490                  | 2400/F(kHz)                       | 300                           |
|   | 0.490-1.705                  | 24000/F(kHz)                      | 30                            |
|   | 1.705-30.0                   | 30                                | 30                            |
|   | 30-88                        | 100 **                            | 3                             |
|   | 88-216                       | 150 **                            | 3                             |
|   | 216-960                      | 200 **                            | 3                             |
|   | Above 960                    | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                              |                                   |                               |
| Test Method:  | ANSI C63.10-2020 section 6.4 |                                   |                               |
| Procedure:  | ANSI C63.10-2020 section 6.4 |                                   |                               |

### 4.1. EUT Operation

|                        |                  |
|------------------------|------------------|
| Operating Environment: |                  |
| Test mode:             | 1: TM1: WTP Mode |

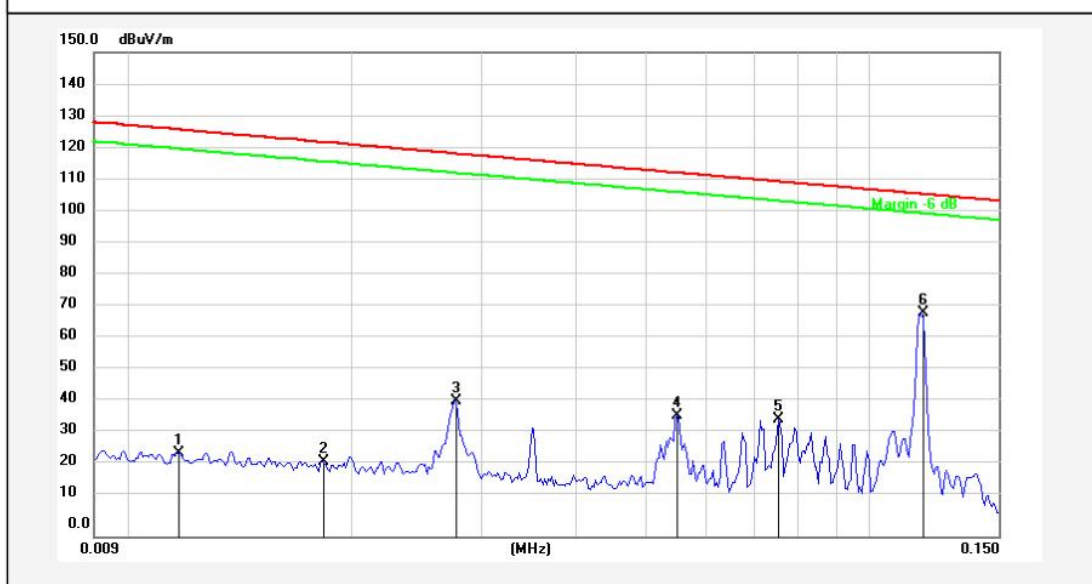
### 4.2. Test Setup



### 4.3. Test Data

|              |       |           |        |                       |         |
|--------------|-------|-----------|--------|-----------------------|---------|
| Temperature: | 23 °C | Humidity: | 57.6 % | Atmospheric Pressure: | 101 kPa |
|--------------|-------|-----------|--------|-----------------------|---------|

TM1 / Polarization: Horizontal

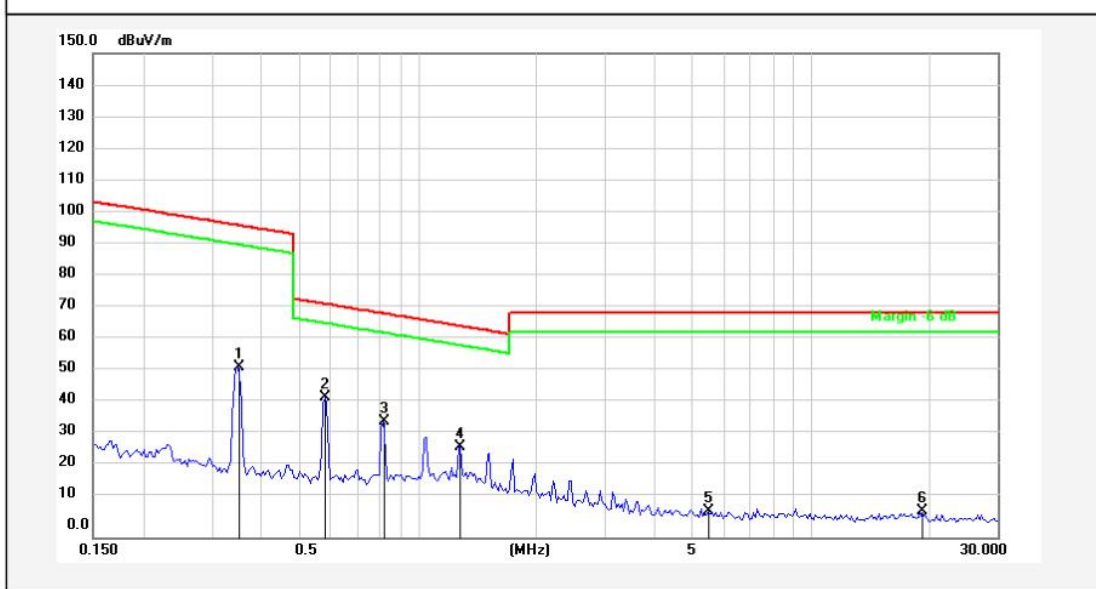


| No. | Freq. (MHz) | Reading (dBuV) | Factor ( ) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 0.0117      | 5.66           | 20.10      | 25.76           | 126.04         | -100.28         | QP       |             |              |        |
| 2   | 0.0183      | 2.99           | 20.22      | 23.21           | 122.18         | -98.97          | QP       |             |              |        |
| 3   | 0.0276      | 21.61          | 20.39      | 42.00           | 118.63         | -76.63          | QP       |             |              |        |
| 4   | 0.0551      | 17.14          | 20.35      | 37.49           | 112.66         | -75.17          | QP       |             |              |        |
| 5   | 0.0755      | 15.65          | 20.37      | 36.02           | 109.95         | -73.93          | QP       |             |              |        |
| 6   | 0.1178      | 48.75          | 20.33      | 69.08           | 106.10         | -37.02          | QP       |             |              |        |



|              |       |           |        |                       |         |
|--------------|-------|-----------|--------|-----------------------|---------|
| Temperature: | 23 °C | Humidity: | 57.6 % | Atmospheric Pressure: | 101 kPa |
|--------------|-------|-----------|--------|-----------------------|---------|

TM1 / Polarization: Vertical



| No. | Freq. (MHz) | Reading (dBUV) | Factor ( ) | Result (dBUV/m) | Limit (dBUV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 0.3502      | 32.52          | 20.28      | 52.80           | 96.70          | -43.90          | QP       |             |              |        |
| 2   | 0.5823      | 23.01          | 20.27      | 43.28           | 72.31          | -29.03          | QP       |             |              |        |
| 3   | 0.8174      | 15.69          | 20.26      | 35.95           | 69.37          | -33.42          | QP       |             |              |        |
| 4   | 1.2756      | 7.55           | 20.26      | 27.81           | 65.51          | -37.70          | QP       |             |              |        |
| 5   | 5.5054      | -12.15         | 20.38      | 8.23            | 69.50          | -61.27          | QP       |             |              |        |
| 6   | 19.0210     | -12.60         | 20.58      | 7.98            | 69.50          | -61.52          | QP       |             |              |        |

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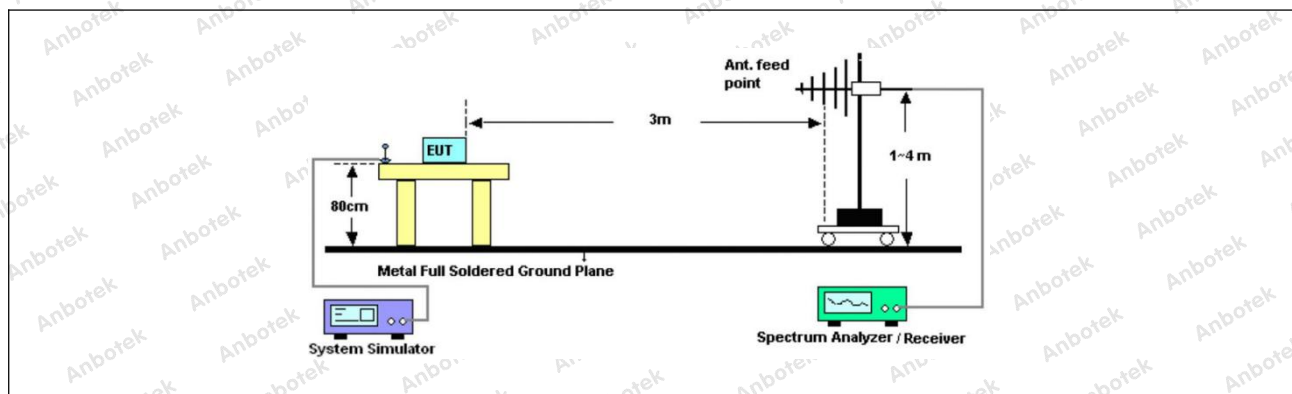
## 5. Emissions in frequency bands (30MHz - 1GHz)

|   |                              |                                   |                               |
|---|------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:   | 47 CFR Part 15.209           |                                   |                               |
| Test Limit:   | Frequency (MHz)              | Field strength (microvolts/meter) | Measurement distance (meters) |
|   | 0.009-0.490                  | 2400/F(kHz)                       | 300                           |
|   | 0.490-1.705                  | 24000/F(kHz)                      | 30                            |
|   | 1.705-30.0                   | 30                                | 30                            |
|   | 30-88                        | 100 **                            | 3                             |
|   | 88-216                       | 150 **                            | 3                             |
|   | 216-960                      | 200 **                            | 3                             |
|   | Above 960                    | 500                               | 3                             |
| <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> |                              |                                   |                               |
| Test Method:  | ANSI C63.10-2020 section 6.5 |                                   |                               |
| Procedure:  | ANSI C63.10-2020 section 6.5 |                                   |                               |

### 5.1. EUT Operation

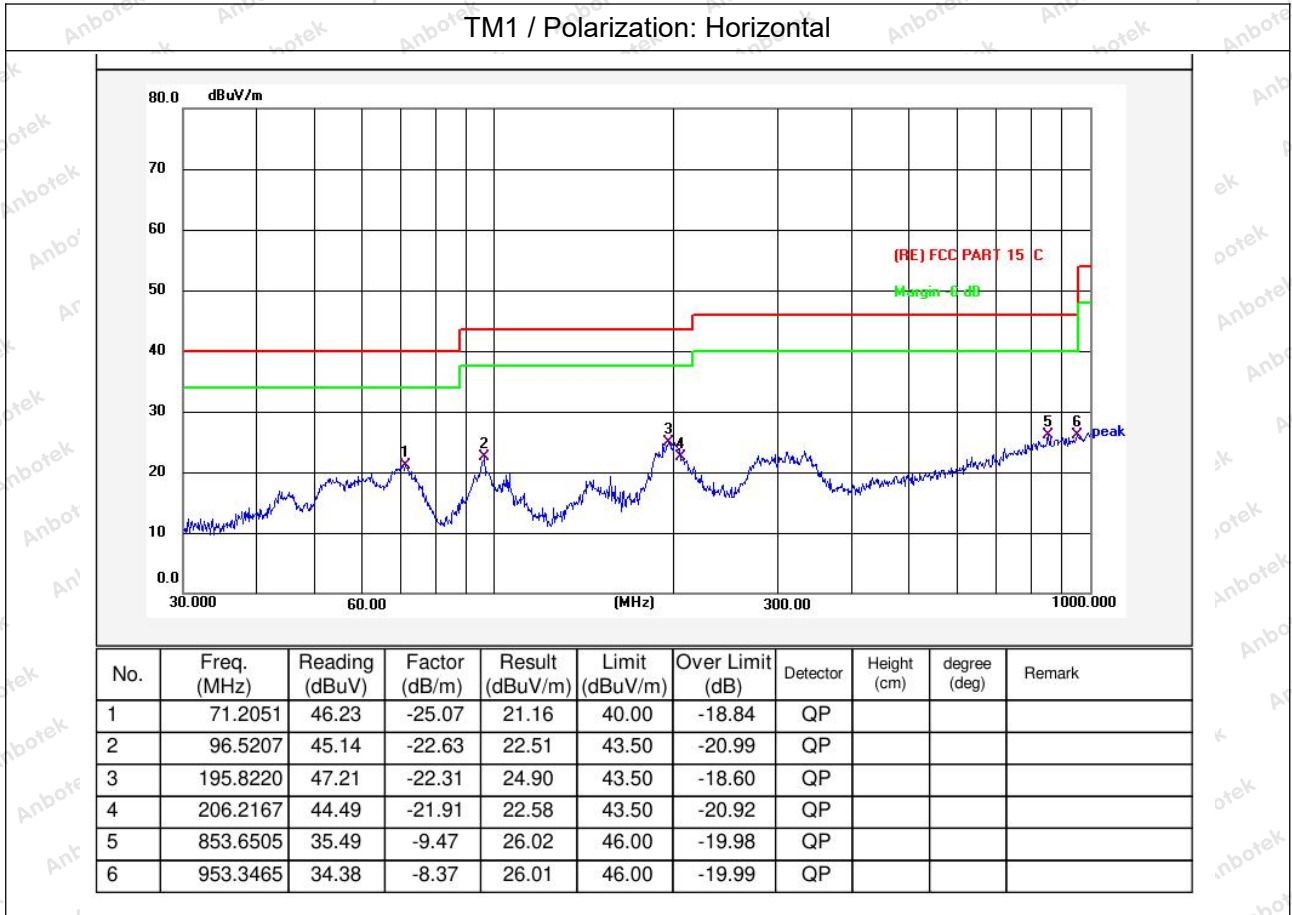
|                        |                  |
|------------------------|------------------|
| Operating Environment: |                  |
| Test mode:             | 1: TM1: WTP Mode |

### 5.2. Test Setup



### 5.3. Test Data

|              |       |           |        |                       |           |
|--------------|-------|-----------|--------|-----------------------|-----------|
| Temperature: | 24 °C | Humidity: | 48.4 % | Atmospheric Pressure: | 101.7 kPa |
|--------------|-------|-----------|--------|-----------------------|-----------|



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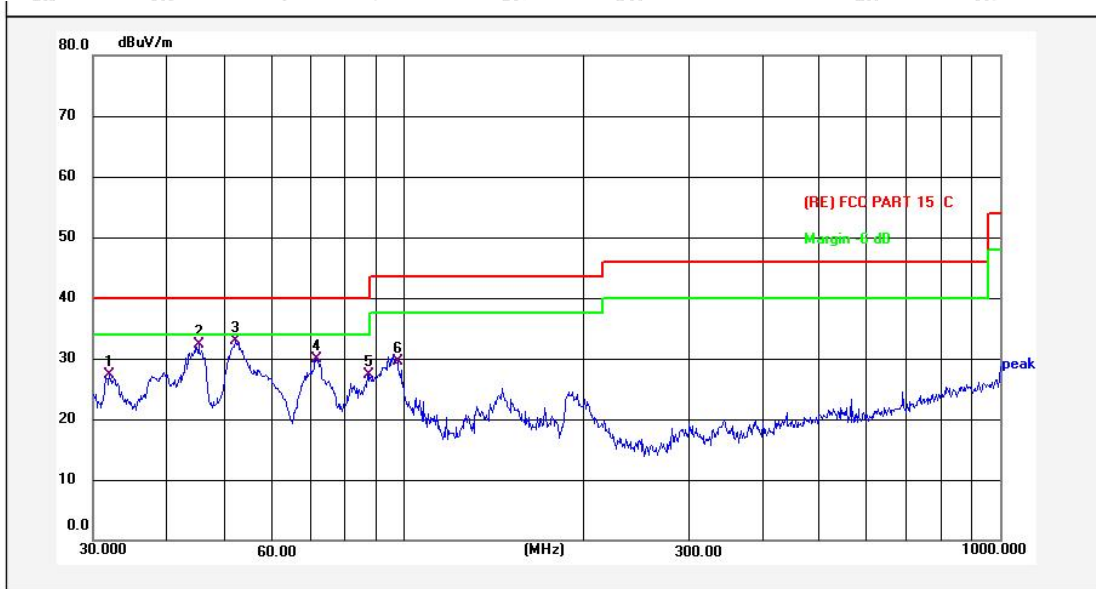
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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 400-003-0500  
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|              |       |           |        |                       |           |
|--------------|-------|-----------|--------|-----------------------|-----------|
| Temperature: | 24 °C | Humidity: | 48.4 % | Atmospheric Pressure: | 101.7 kPa |
|--------------|-------|-----------|--------|-----------------------|-----------|

TM1 / Polarization: Vertical



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|----------------|---------------|-----------------|----------------|-----------------|----------|-------------|--------------|--------|
| 1   | 32.0107     | 51.55          | -24.31        | 27.24           | 40.00          | -12.76          | QP       |             |              |        |
| 2   | 45.1374     | 53.86          | -21.51        | 32.35           | 40.00          | -7.65           | QP       |             |              |        |
| 3   | 52.1393     | 54.53          | -21.66        | 32.87           | 40.00          | -7.13           | QP       |             |              |        |
| 4   | 71.5179     | 55.02          | -25.11        | 29.91           | 40.00          | -10.09          | QP       |             |              |        |
| 5   | 87.1499     | 51.89          | -24.56        | 27.33           | 40.00          | -12.67          | QP       |             |              |        |
| 6   | 97.7983     | 51.94          | -22.39        | 29.55           | 43.50          | -13.95          | QP       |             |              |        |

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**APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

**APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

**APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

