



# FCC TEST REPORT

## Client Information:

Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.  
Applicant add.: 201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.  
Manufacturer: Shenzhen Yifeng Intelligent Technology Co., Ltd.  
Manufacturer add.: 201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.

## Product Information:

Product Name: Watch Wireless Charger Power Bank  
Model No.: P1  
Brand Name: YFZN  
FCC ID: 2AXY5-P1

Applicable standards: FCC Rules and Regulations part 2.1091  
KDB680106 D01v03

## Prepared By:

### Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan,  
Guangdong, China

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Date of Receipt: Aug. 30, 2023

Date of Test: Aug. 30, 2023~ Sep. 07, 2023

Date of Issue: Sep. 08, 2023

Test Result: Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Reviewed by: Simba Huang  
Simba Huang

Approved by:

Seal.chen  
Seal.chen

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## 1 Test Facility

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

#### .CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

#### FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) technology Limited 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.

#### IC —Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

#### A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### 1.1 Deviation from standard

None

### 1.2 Abnormalities from standard conditions

None

### 1.3 Test Location

#### Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

Tel.: +86-769-8202 0499

Fax.: +86-769-8202 0495

### 1.4 Environmental conditions

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

|                       |              |
|-----------------------|--------------|
| Temperature:          | 15-35 ° C    |
| Humidity:             | 30-60 %      |
| Atmospheric pressure: | 950-1050mbar |

## 2 General Information

### 2.1 Product Description

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| EUT Name:              | Watch Wireless Charger Power Bank                                                                                 |
| Model No:              | P1                                                                                                                |
| Serial Model:          | N/A                                                                                                               |
| Test sample(s) ID:     | 23083005                                                                                                          |
| Sample(s) Status:      | Engineer sample                                                                                                   |
| Serial No.:            | N/A                                                                                                               |
| Operation frequency:   | 250kHz-350kHz                                                                                                     |
| Modulation Technology: | ASK                                                                                                               |
| Antenna Type:          | loop coil Antenna                                                                                                 |
| Antenna gain:          | 0dBi                                                                                                              |
| Hardware version.:     | N/A                                                                                                               |
| Software version.:     | N/A                                                                                                               |
| Power supply:          | Capacity: 1200mAh<br>Input: DC 5V-2A<br>Output: DC 5V-1A 3W (MAX)                                                 |
| Note:                  | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |

## 2.2 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

| Test Mode                                                                                 | Description                |            |
|-------------------------------------------------------------------------------------------|----------------------------|------------|
| Mode 1                                                                                    | AC Adapter: EUT + Watch    | Record     |
| Mode 2                                                                                    | Battery: EUT + Watch       | Record     |
| Mode 3                                                                                    | Test the EUT in idle mode. | Pre-tested |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |                            |            |

## 2.3 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

| Description | Manufacturer | Model | Technical Parameters | Certificate | Provided by |
|-------------|--------------|-------|----------------------|-------------|-------------|
| Watch       | Apple        | S6    | /                    | FCC         | laboratory  |

## 2.4 Summary of measurement results

| Test Item                         | Result    |
|-----------------------------------|-----------|
| Magnetic Field Strength (H) (A/m) | Compliant |

## 2.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

| Test Item                        | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission                | 0.009MHz-30MHz  | 3.10dB                  | (1)   |
| Radiated Emission                | 30MHz-1GHz      | 3.75dB                  | (1)   |
| Radiated Emission                | 1GHz-18GHz      | 3.88dB                  | (1)   |
| Radiated Emission                | 18GHz-40GHz     | 3.88dB                  | (1)   |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 1.20dB                  | (1)   |

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

## 2.6 Equipments Used during the Test

| Test Equipment                       | Manufacturer | Model No. | SN.        | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
|--------------------------------------|--------------|-----------|------------|------------------------|----------------------------|
| Electric and Magnetic Field Analyzer | Narda        | EHP-200A  | 180ZX10505 | 2022.06.21             | 2024.06.20                 |

### 3 TEST CONDITIONS AND RESULTS

#### 3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

**According KDB 680106 D01 RF Exposure Wireless Charging App v03**

#### 3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 6                       |
| 3.0 – 30                                    | 1842/f                       | 4.89/f                       | (900/f)*                            | 6                       |
| 30 – 300                                    | 61.4                         | 0.163                        | 1.0                                 | 6                       |
| 300 – 1500                                  | /                            | /                            | f/300                               | 6                       |
| 1500 – 100,000                              | /                            | /                            | 5                                   | 6                       |

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

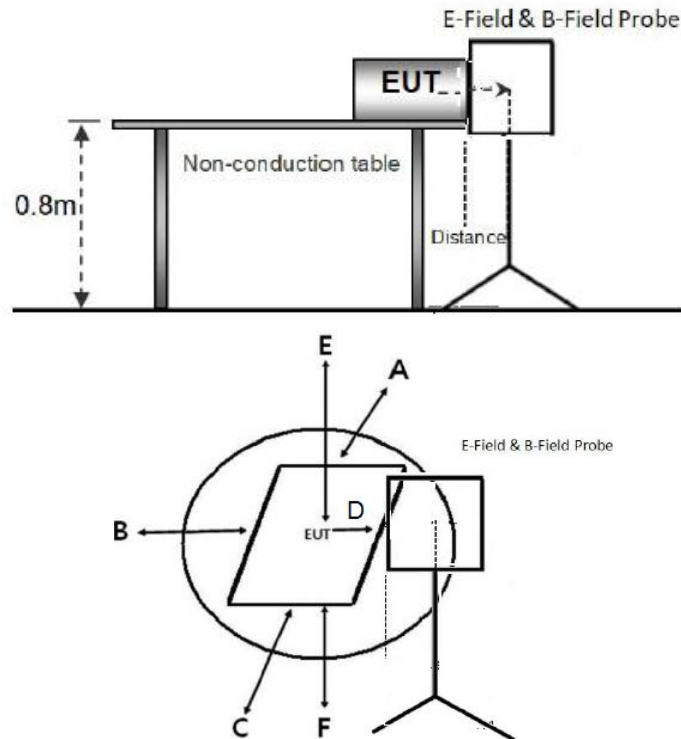
| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 30                                    | 824/f                        | 2.19/f                       | (180/f)*                            | 30                      |
| 30 – 300                                    | 27.5                         | 0.073                        | 0.2                                 | 30                      |
| 300 – 1500                                  | /                            | /                            | f/1500                              | 30                      |
| 1500 – 100,000                              | /                            | /                            | 1.0                                 | 30                      |

F=frequency in MHz

\*=Plane-wave equivalent power density

### 3.3 Test Setup

#### 1. Block diagram of EUT configuration



**Note:** A, B, C, D, E, F for six surfaces of the product.

### 3.4 Measurement Procedure

For mobile RF exposure  
For mobile RF exposure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance which is between the edge of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.

For portable RF exposure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (0cm) which is between the edge of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- Repeated measured (a) – (d) at measure distance 2 cm, 4cm, 6cm, 8cm, 10cm, 12 cm, 14cm, 16cm, 18cm and 20cm.
- The EUT were measured according to the dictates of KDB 680106D01v03.

### 3.5 Test Result of E and H field Strength

|                |             |            |                  |
|----------------|-------------|------------|------------------|
| Temperature:   | 25.7°C      | Humidity:  | 58%              |
| Test Engineer: | Simba Huang | Test site: | Anechoic chamber |



**E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)**

| Unit | Test mode | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | 50% Limits (V/m) | Limits (V/m) |
|------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------|
| V/m  | TM1       | 49.571          | 51.667          | 49.832          | 49.634          | 45.885          | 307              | 614          |

**H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)**

| Unit | Test mode | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | 50% Limits (A/m) | Limits (A/m) |
|------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|--------------|
| A/m  | TM1       | 0.200           | 0.196           | 0.201           | 0.178           | 0.168           | 0.815            | 1.63         |

**H-Filed Strength at 20 cm from the top of the EUT (A/m)**

| Unit | Test mode | Test Position E | 50% Limits (A/m) | Limits (A/m) |
|------|-----------|-----------------|------------------|--------------|
| A/m  | TM1       | 0.194           | 0.815            | 1.63         |

**H-Field Strength at 0-20 cm from the edges surrounding the EUT**

| Test Conditions | Unit | Measured Distance (cm) | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 |                 | FCC H-Field Strength (A/m) |            |
|-----------------|------|------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------------|------------|
|                 |      |                        | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | Limits                     | 50% Limits |
|                 |      |                        |                                        |                 |                 |                 |                 |                 |                            |            |
| TM2             | A/m  | 0                      | 0.4638                                 | 0.3080          | 0.1684          | 0.4676          | 0.3600          | 0.3043          | 1.63                       | 0.815      |
| TM2             | A/m  | 2                      | 0.4022                                 | 0.3229          | 0.2247          | 0.2030          | 0.3389          | 0.3448          | 1.63                       | 0.815      |
| TM2             | A/m  | 4                      | 0.4525                                 | 0.3057          | 0.3156          | 0.2048          | 0.3495          | 0.3305          | 1.63                       | 0.815      |
| TM2             | A/m  | 6                      | 0.1719                                 | 0.3682          | 0.3115          | 0.2915          | 0.4743          | 0.3222          | 1.63                       | 0.815      |
| TM2             | A/m  | 8                      | 0.1630                                 | 0.2623          | 0.2854          | 0.1532          | 0.4691          | 0.2022          | 1.63                       | 0.815      |
| TM2             | A/m  | 10                     | 0.3516                                 | 0.2903          | 0.1959          | 0.3088          | 0.4919          | 0.2437          | 1.63                       | 0.815      |
| TM2             | A/m  | 12                     | 0.4358                                 | 0.3771          | 0.2046          | 0.2519          | 0.3052          | 0.1811          | 1.63                       | 0.815      |
| TM2             | A/m  | 14                     | 0.1206                                 | 0.1913          | 0.1019          | 0.2213          | 0.3462          | 0.2085          | 1.63                       | 0.815      |
| TM2             | A/m  | 16                     | 0.1612                                 | 0.2975          | 0.2423          | 0.1934          | 0.3976          | 0.0792          | 1.63                       | 0.815      |
| TM2             | A/m  | 18                     | 0.1929                                 | 0.1474          | 0.1593          | 0.1930          | 0.2301          | 0.3196          | 1.63                       | 0.815      |
| TM2             | A/m  | 20                     | 0.2124                                 | 0.2013          | 0.1782          | 0.1076          | 0.2912          | 0.1603          | 1.63                       | 0.815      |

**E-Field Strength at 0-20 cm from the edges surrounding the EUT**

| Test Conditions | Unit | Measured Distance (cm) | Measured E-Field Strength Values (V/m) |                 |                 |                 |                 |                 | FCC E-Field Strength (V/m) |            |
|-----------------|------|------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------------|------------|
|                 |      |                        | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | Limits                     | 50% Limits |
|                 |      |                        |                                        |                 |                 |                 |                 |                 |                            |            |
| TM2             | V/m  | 0                      | 81.72                                  | 81.22           | 81.34           | 80.14           | 82.55           | 81.23           | 614                        | 307        |
| TM2             | V/m  | 2                      | 76.45                                  | 74.44           | 74.22           | 73.29           | 75.10           | 77.44           | 614                        | 307        |
| TM2             | V/m  | 4                      | 73.96                                  | 69.98           | 70.37           | 72.69           | 70.53           | 73.36           | 614                        | 307        |
| TM2             | V/m  | 6                      | 68.76                                  | 67.03           | 67.00           | 68.92           | 67.19           | 69.99           | 614                        | 307        |
| TM2             | V/m  | 8                      | 65.37                                  | 64.43           | 64.89           | 64.96           | 63.17           | 63.17           | 614                        | 307        |
| TM2             | V/m  | 10                     | 62.81                                  | 61.16           | 61.16           | 62.22           | 59.52           | 60.87           | 614                        | 307        |
| TM2             | V/m  | 12                     | 58.36                                  | 58.01           | 57.81           | 58.23           | 56.25           | 55.25           | 614                        | 307        |
| TM2             | V/m  | 14                     | 55.74                                  | 55.00           | 54.57           | 51.20           | 50.87           | 49.27           | 614                        | 307        |
| TM2             | V/m  | 16                     | 47.23                                  | 48.73           | 48.86           | 47.44           | 44.62           | 44.33           | 614                        | 307        |
| TM2             | V/m  | 18                     | 40.92                                  | 42.45           | 42.65           | 40.67           | 39.19           | 42.61           | 614                        | 307        |
| TM2             | V/m  | 20                     | 39.25                                  | 40.87           | 41.29           | 39.69           | 38.14           | 39.12           | 614                        | 307        |

#### Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

| Requirements of KDB 680106 D01                                                                                                                                                                  | Yes / No | Description                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power transfer frequency is less than 1 MHz                                                                                                                                                     | Yes      | The device operate in the frequency range 250kHz-350kHz                                                                                                                                   |
| Output power from each primary coil is less than or equal to 15 watts                                                                                                                           | Yes      | The maximum output power for each primary coil is 3W.                                                                                                                                     |
| The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.        | Yes      | The transfer system includes only one primary coils.                                                                                                                                      |
| Client device is placed directly in contact with the transmitter.                                                                                                                               | Yes      | Client device is placed directly in contact with the transmitter.                                                                                                                         |
| Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).                                                                                               | No       | Mixed mobile and portable exposure conditions                                                                                                                                             |
| The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. | Yes      | The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |

### 3.6 Conclusion

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for portable exposure and 20 cm to the antenna for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106 and confirmed by the FCC according to KDB Inquire.

## 4 Test Setup Photos of the EUT



Test Position A-0cm from the edge of EUT to the geometric center of the probe



Test Position B-0cm from the edge of EUT to the geometric center of the probe



Test Position C-0cm from the edge of EUT to the geometric center of the probe

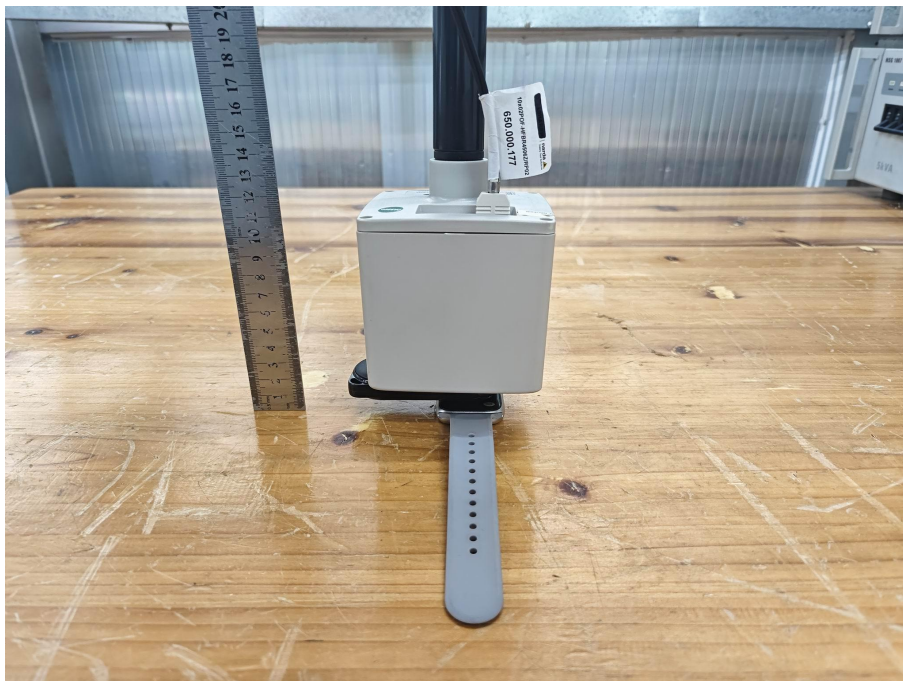


Test Position D-0cm from the edge of EUT to the geometric center of the probe





Test Position E-0cm from the edge of EUT to the geometric center of the probe



Test Position F-0cm from the edge of EUT to the geometric center of the probe



Test Position A-20cm from the edge of EUT to the geometric center of the probe



Test Position B-20cm from the edge of EUT to the geometric center of the probe

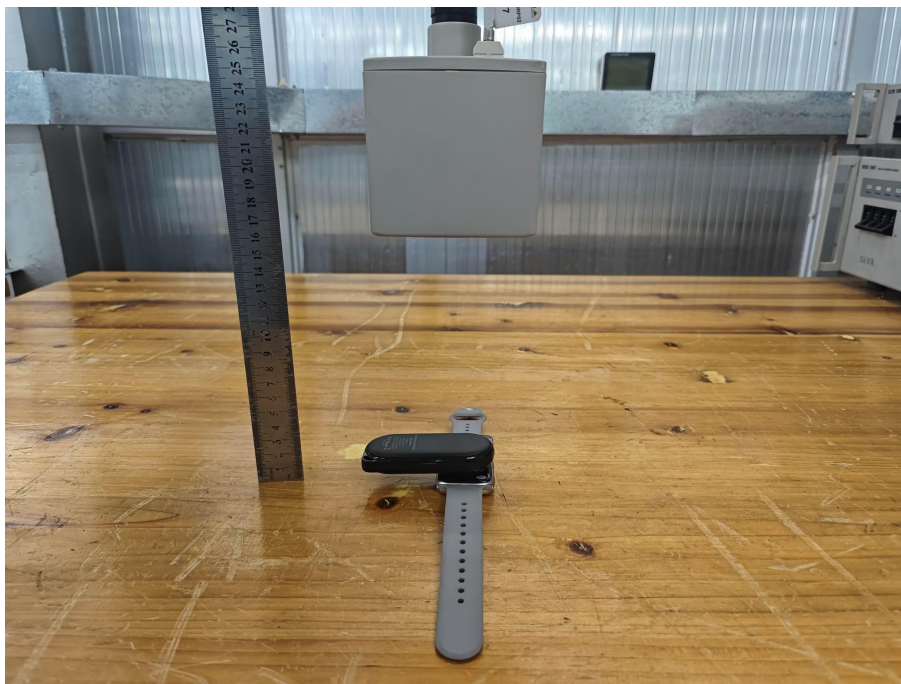




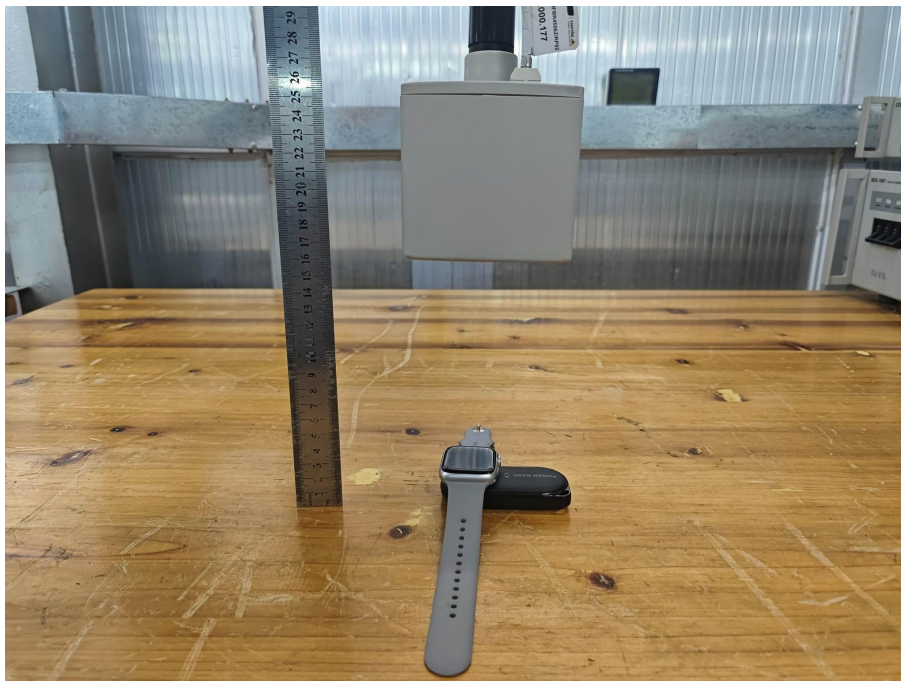
Test Position C-20cm from the edge of EUT to the geometric center of the probe



Test Position D-20cm from the edge of EUT to the geometric center of the probe



Test Position E-20cm from the edge of EUT to the geometric center of the probe



Test Position F-20cm from the edge of EUT to the geometric center of the probe





Test Position F-15cm from the edge of EUT to the geometric center of the probe

\*\* End of report \*\*