

## RF Exposure Evaluation

### FCC ID:2AY5D-F600

Applicant Name..... : Shenzhen USV Technology Co.,Ltd  
Address..... : 4F, Building B20, Hengfeng Industrial City, Hangchen, Bao'an District, Shenzhen City, Guangdong Province, China  
Manufacturer Name..... : Shenzhen USV Technology Co.,Ltd  
Address..... : 4F, Building B20, Hengfeng Industrial City, Hangchen, Bao'an District, Shenzhen City, Guangdong Province, China  
Product..... : 3-IN-1 CHARGER STATION  
Model(s)..... : F600  
Additional Model(s)..... : /  
Trademark..... : /  
Model Difference..... : /  
Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.  
Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Date of Receipt..... : May 6, 2026  
Date of Test(s)..... : May 6, 2026 to May 11, 2026  
Date of Issue..... : May 11, 2026  
Test Requested..... : Select test(s) as requested by the client.  
Test Standard(s)..... : KDB 680106 D01 Wireless Power Transfer v04

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

*Kimi Lu*

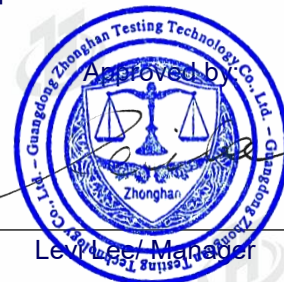
Kimi Lu/ Engineer

Reviewed by:

*Baret Wu*

Baret Wu/ Director

Approved by:



Lei Wu/ Manager

**Note:** The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.

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## 1. GENERAL INFORMATION

### 1.1. GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                                                 |                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                                                                                                                                   | 3-IN-1 CHARGER STATION                                                                                                                        |
| Test Model No.:                                                                                                                                                                                 | F600                                                                                                                                          |
| Hardware version:                                                                                                                                                                               | V1.0                                                                                                                                          |
| Software version:                                                                                                                                                                               | V1.0                                                                                                                                          |
| Operation Frequency:                                                                                                                                                                            | Coil Antenna 1: 115-205KHz, 360KHz<br>Coil Antenna 2: 115-205KHz<br>Coil Antenna 3: 323-328KHz, 1.78MHz                                       |
| Modulation type:                                                                                                                                                                                | ASK                                                                                                                                           |
| Antenna Type:                                                                                                                                                                                   | Inductive loop coil Antenna                                                                                                                   |
| Antenna gain:                                                                                                                                                                                   | Coil Antenna 1&2&3: 0dBi                                                                                                                      |
| Ratings:                                                                                                                                                                                        | Input: 9V $\overline{=}$ 3A, 15V $\overline{=}$ 3A<br>Output: Coil Antenna 1: 5W/7.5W/10W/15W/25W<br>Coil Antenna 2: 5W<br>Coil Antenna 3: 5W |
| Sample Number:                                                                                                                                                                                  | 260506114YP001                                                                                                                                |
| Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility. |                                                                                                                                               |

## 1.2. TEST MODES

| Test Modes: |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| Mode 1      | AC Mains + WPT + Phone (25W Battery Status:≤1%)                                                                     |
| Mode 2      | AC Mains + WPT + Phone (25W Battery Status:≤50%)                                                                    |
| Mode 3      | AC Mains + WPT + Phone (25W Battery Status:≤99%)                                                                    |
| Mode 4      | AC Mains + WPT + Phone (15W Battery Status:≤1%)                                                                     |
| Mode 5      | AC Mains + WPT + Phone (15W Battery Status:≤50%)                                                                    |
| Mode 6      | AC Mains + WPT + Phone (15W Battery Status:≤99%)                                                                    |
| Mode 7      | AC Mains + WPT + Phone (10W Battery Status:≤1%)                                                                     |
| Mode 8      | AC Mains + WPT + Phone (10W Battery Status:≤50%)                                                                    |
| Mode 9      | AC Mains + WPT + Phone (10W Battery Status:≤99%)                                                                    |
| Mode 10     | AC Mains + WPT + Phone (7.5W Battery Status:≤1%)                                                                    |
| Mode 11     | AC Mains + WPT + Phone (7.5W Battery Status:≤50%)                                                                   |
| Mode 12     | AC Mains + WPT + Phone (7.5W Battery Status:≤99%)                                                                   |
| Mode 13     | AC Mains + WPT + Phone (5W Battery Status:≤1%)                                                                      |
| Mode 14     | AC Mains + WPT + Phone (5W Battery Status:≤50%)                                                                     |
| Mode 15     | AC Mains + WPT + Phone (5W Battery Status:≤99%)                                                                     |
| Mode 16     | AC Mains + WPT + Earphone (5W Battery Status:≤1%)                                                                   |
| Mode 17     | AC Mains + WPT + Earphone (5W Battery Status:≤50%)                                                                  |
| Mode 18     | AC Mains + WPT + Earphone (5W Battery Status:≤99%)                                                                  |
| Mode 19     | AC Mains + WPT + iWatch (5W Battery Status:≤1%)                                                                     |
| Mode 20     | AC Mains + WPT + iWatch (5W Battery Status:≤50%)                                                                    |
| Mode 21     | AC Mains + WPT + iWatch (5W Battery Status:≤99%)                                                                    |
| Mode 22     | AC Mains + WPT + Phone (25W Battery Status:≤1%)+ Earphone (5W Battery Status:≤1%)+iWatch (5W Battery Status:≤1%)    |
| Mode 23     | AC Mains + WPT + Phone (25W Battery Status:≤50%)+ Earphone (5W Battery Status:≤50%)+iWatch (5W Battery Status:≤50%) |
| Mode 24     | AC Mains + WPT + Phone (25W Battery Status:≤99%)+ Earphone (5W Battery Status:≤99%)+iWatch (5W Battery Status:≤99%) |
| Mode 25     | AC Mains + WPT + Phone (15W Battery Status:≤1%)+ Earphone (5W Battery Status:≤1%)+iWatch (5W Battery Status:≤1%)    |



|                                                                                                         |                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Mode 26                                                                                                 | AC Mains + WPT + Phone (15W Battery Status: $\leq 50\%$ )+ Earphone (5W Battery Status: $\leq 50\%$ )+iWatch (5W Battery Status: $\leq 50\%$ )  |
| Mode 27                                                                                                 | AC Mains + WPT + Phone (15W Battery Status: $\leq 99\%$ )+ Earphone (5W Battery Status: $\leq 99\%$ )+iWatch (5W Battery Status: $\leq 99\%$ )  |
| Mode 28                                                                                                 | AC Mains + WPT + Phone (10W Battery Status: $\leq 1\%$ )+ Earphone (5W Battery Status: $\leq 1\%$ )+iWatch (5W Battery Status: $\leq 1\%$ )     |
| Mode 29                                                                                                 | AC Mains + WPT + Phone (10W Battery Status: $\leq 50\%$ )+ Earphone (5W Battery Status: $\leq 50\%$ )+iWatch (5W Battery Status: $\leq 50\%$ )  |
| Mode 30                                                                                                 | AC Mains + WPT + Phone (10W Battery Status: $\leq 99\%$ )+ Earphone (5W Battery Status: $\leq 99\%$ )+iWatch (5W Battery Status: $\leq 99\%$ )  |
| Mode 31                                                                                                 | AC Mains + WPT + Phone (7.5W Battery Status: $\leq 1\%$ )+ Earphone (5W Battery Status: $\leq 1\%$ )+iWatch (5W Battery Status: $\leq 1\%$ )    |
| Mode 32                                                                                                 | AC Mains + WPT + Phone (7.5W Battery Status: $\leq 50\%$ )+ Earphone (5W Battery Status: $\leq 50\%$ )+iWatch (5W Battery Status: $\leq 50\%$ ) |
| Mode 33                                                                                                 | AC Mains + WPT + Phone (7.5W Battery Status: $\leq 99\%$ )+ Earphone (5W Battery Status: $\leq 99\%$ )+iWatch (5W Battery Status: $\leq 99\%$ ) |
| Mode 34                                                                                                 | AC Mains + WPT + Phone (5W Battery Status: $\leq 1\%$ )+ Earphone (5W Battery Status: $\leq 1\%$ )+iWatch (5W Battery Status: $\leq 1\%$ )      |
| Mode 35                                                                                                 | AC Mains + WPT + Phone (5W Battery Status: $\leq 50\%$ )+ Earphone (5W Battery Status: $\leq 50\%$ )+iWatch (5W Battery Status: $\leq 50\%$ )   |
| Mode 36                                                                                                 | AC Mains + WPT + Phone (5W Battery Status: $\leq 99\%$ )+ Earphone (5W Battery Status: $\leq 99\%$ )+iWatch (5W Battery Status: $\leq 99\%$ )   |
| Mode 37                                                                                                 | Standby                                                                                                                                         |
| Note: All modes were tested, only the worst-case was recorded in the report. Mode 10 is the worst mode. |                                                                                                                                                 |

### 1.3. AUXILIARY EQUIPMENT

| Item | Equipment    | Mfr/Brand                                               | Model/Type No. | Series No. | Note |
|------|--------------|---------------------------------------------------------|----------------|------------|------|
| E-1  | AC Adapter   | Whale ancient (Dongguan)<br>Technoby Industrial Co.,LTD | JG45W00C-U     | /          | AE   |
| E-2  | Mobile phone | Apple Inc.                                              | iPhone 15      | /          | AE   |
| E-3  | Apple watch  | Apple Inc.                                              | ultra 2        | /          | AE   |
| E-4  | Earphone     | Apple                                                   | A2031          | /          | AE   |

## 2. RF EXPOSURE TEST

### 2.1. MEASURING STANDARD

KDB 680106 D01 Wireless Power Transfer v04

### 2.2. REQUIREMENTS

According to the item 3 of KDB 680106 D01 v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

| Requirements of item 3 of KDB 680106 D01                                                                                                                                                                     | Yes/ No | Description                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Mobile Device and Portable Device Configurations                                                                                                                                                             | Yes     | Mobile Device                                                                                                                                 |
| Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz                                                                                                                          | Yes     | The device operate in the frequency range Coil Antenna 1: 115-205kHz, 360 kHz, Coil Antenna 2:115-205kHz, Coil Antenna 3: 323-328KHz, 1.78MHz |
| RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use                          | Yes     | The EUT H-field and E-field strengths at 20 cm surrounding the device.                                                                        |
| A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact). | Yes     | the surfaces of the transmitter and client device enclosures are in physical contact.                                                         |

## 2.3. LIMITS

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

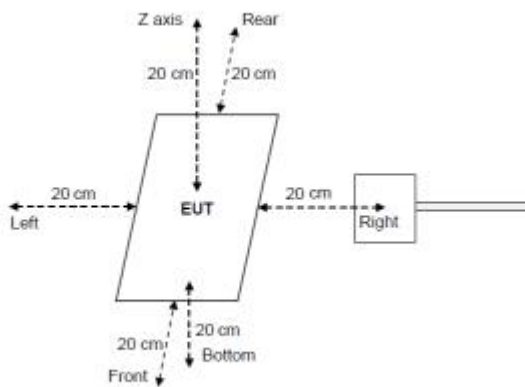
Limits for Maximum Permissible Exposure (MPE)

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       | /                             | /                             | f/300                               | 6                        |
| 1500-100,000                                                   | /                             | /                             | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 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  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

## 2.4. TEST SETUP

For mobile exposure conditions:



## 2.5. TEST PROCEDURE

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

## 2.6. MEASUREMENT UNCERTAINTY

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

| No. | Item    | Uncertainty |
|-----|---------|-------------|
| 1   | H-field | 0.7dB       |
| 2   | E-field | 1.06dB      |

Decision Rule

☒ Uncertainty is not included

☐ Uncertainty is included

## 2.7. TEST INSTRUMENTS LIST

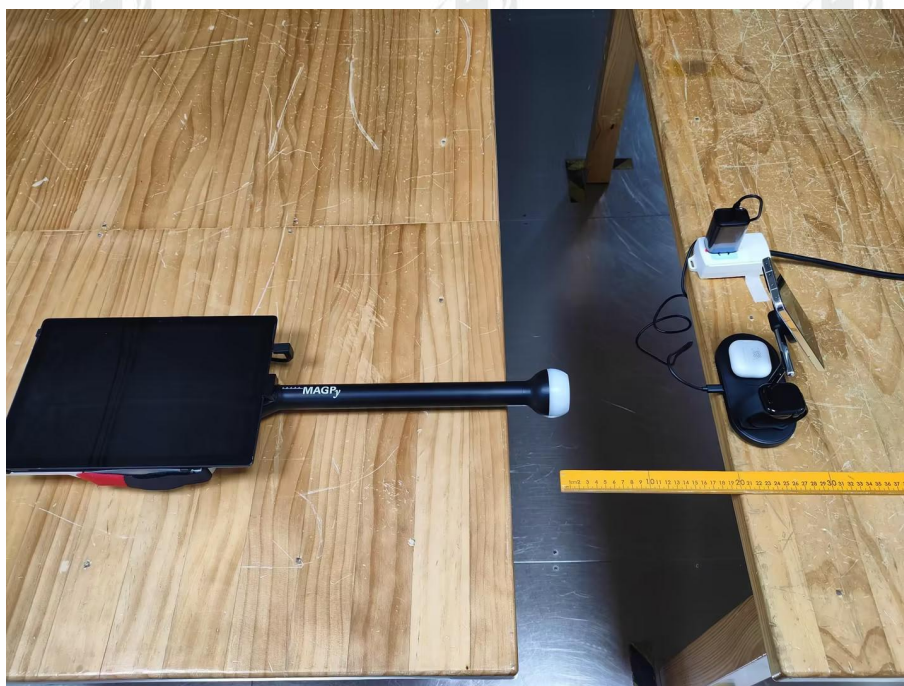
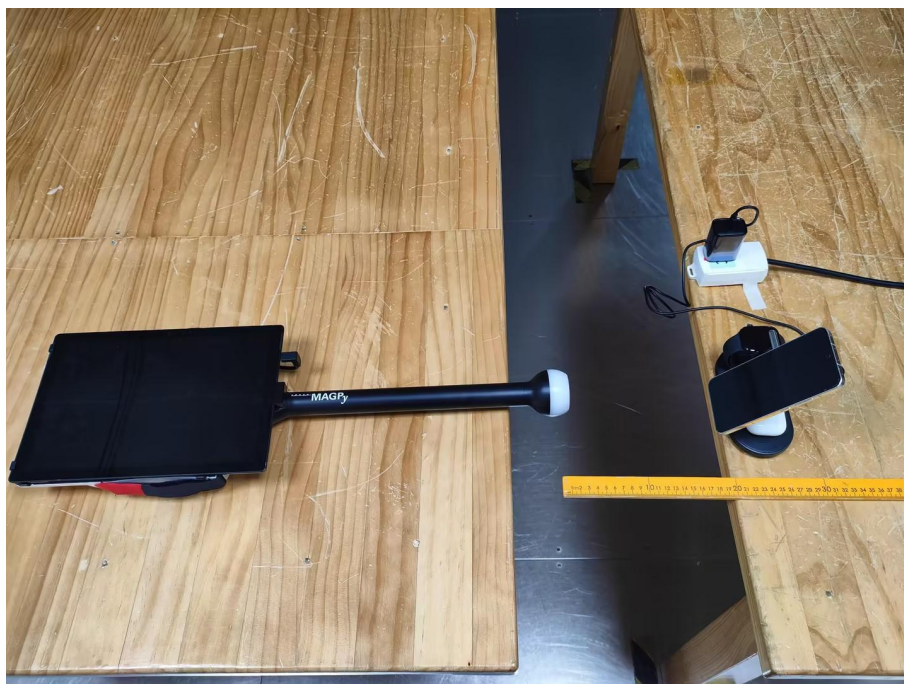
| Test Equipment                                       | Manufacturer                    | Model             | Serial No. | Last Cal.          | Next Cal.          |
|------------------------------------------------------|---------------------------------|-------------------|------------|--------------------|--------------------|
| Near-field Electric and Electric Field Sensor System | Schmid & Partner Engineering AG | MAGPy-8H3D+E3D V2 | 3127       | September 09, 2025 | September 08, 2026 |
| Near-field Electric and Electric Field Sensor System | Schmid & Partner Engineering AG | MAGPy-DASV2       | 3121       | September 09, 2025 | September 08, 2026 |

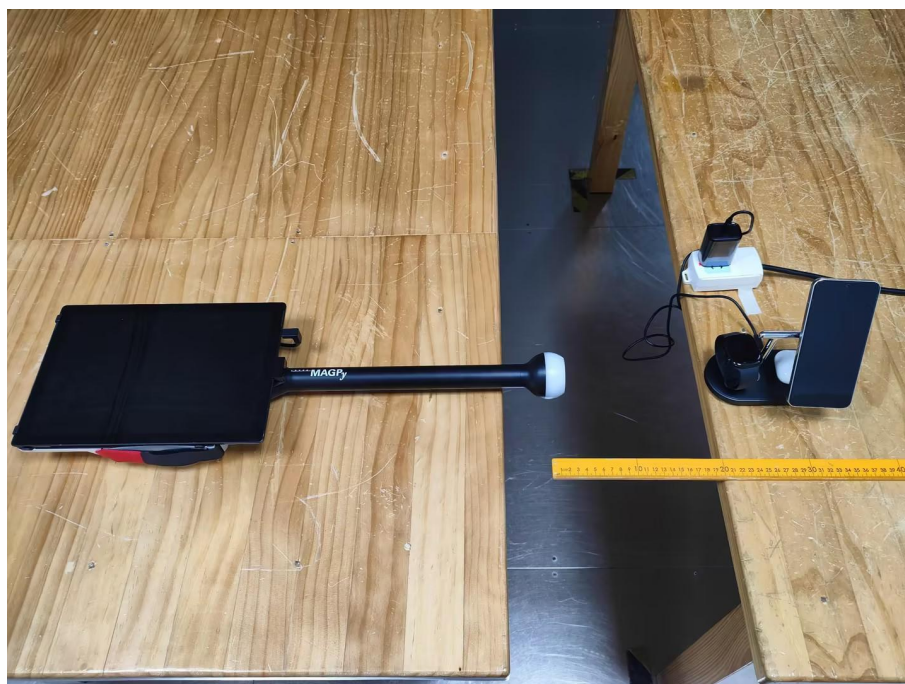
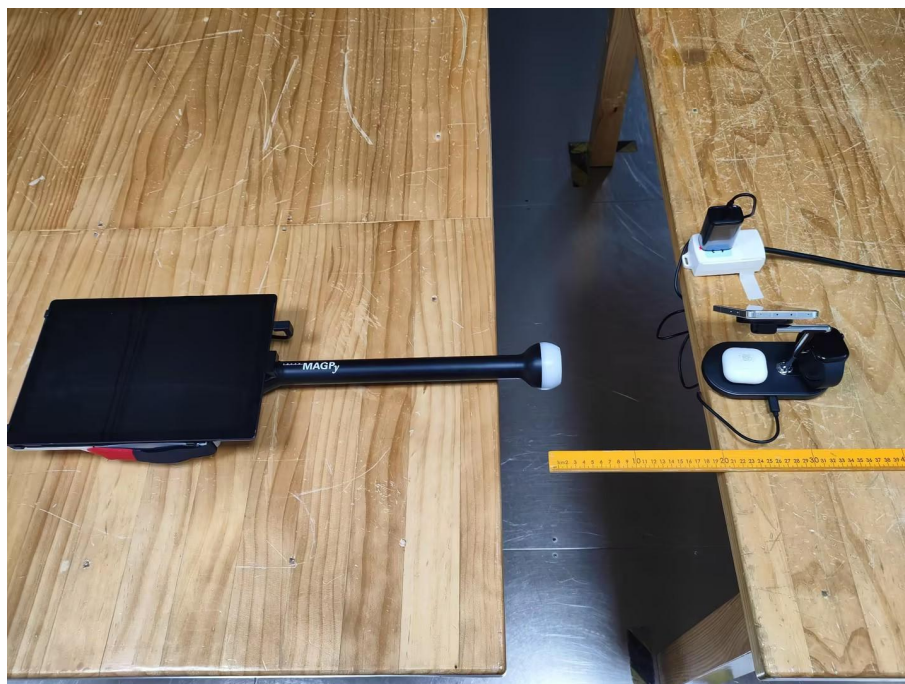
## 2.8. TEST RESULT

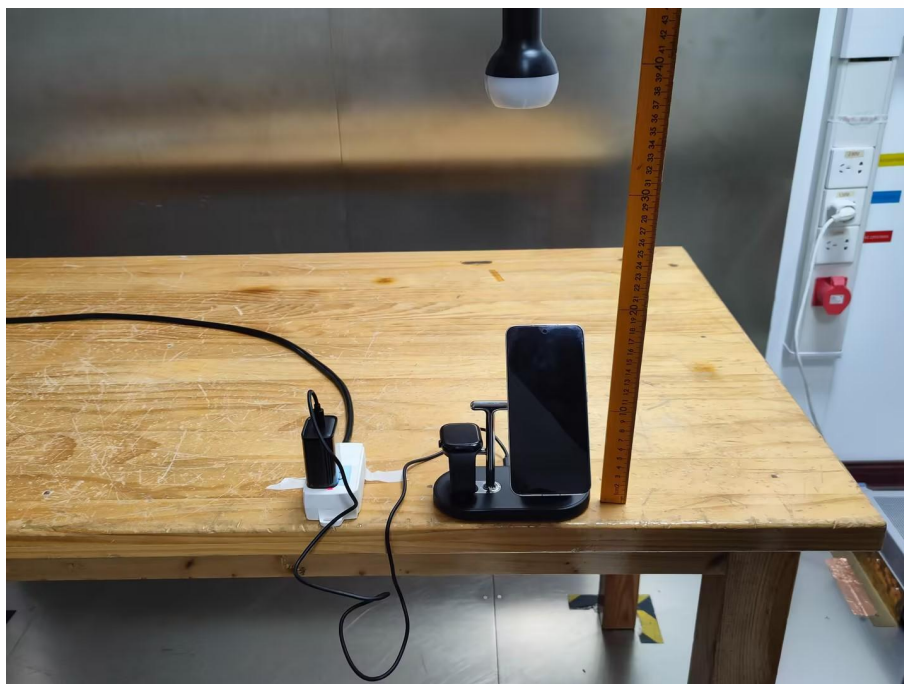
We have evaluated mode 1 to mode 37 and the worst mode 22 is showed in this report.

| Test Mode | Test Position A (A/m) | Test Position B (A/m) | Test Position C (A/m) | Test Position D (A/m) | Test Position E (A/m) | 50% Limits (A/m) | Limits (A/m) | test result |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|--------------|-------------|
| Mode 22   | 0.07                  | 0.05                  | 0.07                  | 0.03                  | 0.07                  | 0.815            | 1.63         | PASS        |
| Test Mode | Test Position A (V/m) | Test Position B (V/m) | Test Position C (V/m) | Test Position D (V/m) | Test Position E (V/m) | 50% Limits (V/m) | Limits (V/m) | test result |
| Mode 22   | 0.79                  | 0.46                  | 1.16                  | 0.32                  | 0.45                  | 307              | 614          | PASS        |

## 2.9. TEST PHOTOS







\*\*\*\*\* END OF REPORT \*\*\*\*\*