

## FCC TEST REPORT

**FCC ID: 2BGYL-SJ-0030**

On Behalf of

Shenzhen Longsheng Union Technology Co.,Ltd

Magnetic wireless charging mobile power bank

Model No.: SJ-0030

SJ-0031, SJ-0032, SJ-0033, SJ-0034, SJ-0035, SJ-0036, SJ-0037, SJ-0038, SJ-0039, SJ-0040,  
SJ-0041, SJ-0042, SJ-0043, SJ-0044, SJ-0045

Prepared for : Shenzhen Longsheng Union Technology Co.,Ltd  
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Prepared By : Shenzhen PSI Testing Co., Ltd.  
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Report Number : psi2504030-C01-R07  
Date of Receipt : March 4, 2025  
Date of Test : March 4, 2025-April 21, 2025  
Date of Report : April 27, 2025  
Version Number : V0

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## TEST REPORT DECLARATION

Applicant : Shenzhen Longsheng Union Technology Co.,Ltd

Address : Room 326, Fuyong Chamber of Commerce Information Building, 6348 Baoan Avenue, Baoan District, Shenzhen, Guangdong, China

Manufacturer : Shenzhen Guangxun Lishen Technology Co., Ltd. Dongguan Tangxia Branch

Address : Building B, Building 103, Lingnan Avenue, Shigu Community, Tangxia Town, Dongguan City

EUT Description : Magnetic wireless charging mobile power bank

SJ-0030

(A) Model No. : SJ-0031, SJ-0032, SJ-0033, SJ-0034, SJ-0035,  
SJ-0036, SJ-0037, SJ-0038, SJ-0039, SJ-0040,  
SJ-0041, SJ-0042, SJ-0043, SJ-0044, SJ-0045

(B) Trademark : /

Measurement Standard Used:

**FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310**

**KDB 680106 D01 Wireless Power Transfer v04**

**Test Result: PASS**

The device described above is tested by Shenzhen PSI Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen PSI Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen PSI Testing Co., Ltd.

Tested by (name + signature).....:

Felix Pang  
Test Engineer



Approved by (name + signature).....:

Simple Guan  
Project Manager



Date of issue.....:

April 27, 2025

**Revision History**

| Revision | Issue Date     | Revisions              | Revised By |
|----------|----------------|------------------------|------------|
| V0       | April 27, 2025 | Initial released Issue | Felix Pang |

## 1. Test Result Summary

| Requirement | CFR 47 Section                    | Result |
|-------------|-----------------------------------|--------|
| RF EXPOSURE | §1.1307(b)(1), §1.1310& KDB680106 | PASS   |

**Note:**

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*
5. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.

## 2. EUT Description

### 2.1. Description of Device (EUT)

|              |   |                                                                                                                                                                                                                                                                                                                                                               |
|--------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name     | : | Magnetic wireless charging mobile power bank                                                                                                                                                                                                                                                                                                                  |
| Model No.    | : | SJ-0030                                                                                                                                                                                                                                                                                                                                                       |
| DIFF.        | : | SJ-0030 is the test model, while other models are derivative models. These models are the same on the circuit, with only different is model names. There are two types of batteries and label for the product, which are optional. Therefore, the test data of SJ-0030 can represent other models, and the two batteries have undergone differential testing. |
| Power supply | : | Type-C Input: 5 V==3 A, 9 V==2 A<br>Type-C output: 5 V==3 A, 9 V==2.2 A, 12 V==1.67 A<br>Wireless Charge: 5 W/ 7.5 W/ 10 W/15 W<br>Battery 1: DC 3.85V, 10000mAh(38.5Wh)<br>Battery 2: DC 3.7V, 10000mAh(37Wh)                                                                                                                                                |

|                  |   |                                     |
|------------------|---|-------------------------------------|
| Radio Technology | : | Wireless power transmission systems |
|------------------|---|-------------------------------------|

|                     |   |               |
|---------------------|---|---------------|
| Operation frequency | : | 110.1-360 KHz |
|---------------------|---|---------------|

|            |   |     |
|------------|---|-----|
| Modulation | : | MSK |
|------------|---|-----|

|              |   |              |
|--------------|---|--------------|
| Antenna Type | : | Coil Antenna |
|--------------|---|--------------|

|                      |   |      |
|----------------------|---|------|
| Connector cable loss | : | 0dBi |
|----------------------|---|------|

|                  |   |      |
|------------------|---|------|
| Software version | : | V1.0 |
|------------------|---|------|

|                  |   |      |
|------------------|---|------|
| Hardware version | : | V1.0 |
|------------------|---|------|

|      |   |                                                                                                                      |
|------|---|----------------------------------------------------------------------------------------------------------------------|
| Note | : | Antenna information is provided by applicant.<br>Testing lab is not responsible for the accuracy of the information. |
|------|---|----------------------------------------------------------------------------------------------------------------------|

## 2.2. Accessories of Device (EUT)

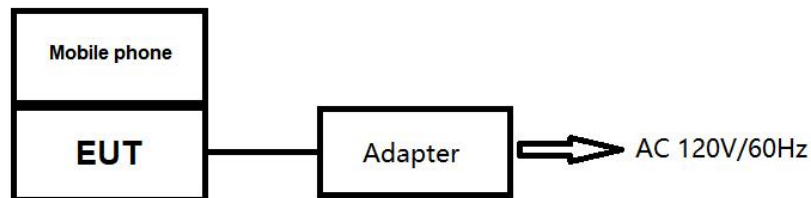
|                |   |     |
|----------------|---|-----|
| Accessories    | : | N/A |
| Manufacturer   | : | N/A |
| Model          | : | N/A |
| specifications | : | N/A |

## 2.3. Tested Supporting System Details

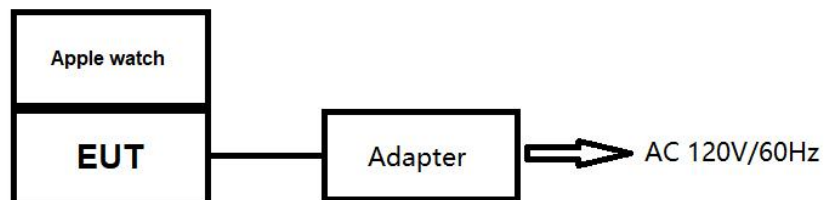
| No. | Description  | Manufacturer | Model          | Serial Number | Certification |
|-----|--------------|--------------|----------------|---------------|---------------|
| 1   | AC ADAPTER   | /            | G301CU         | /             | /             |
| 2   | Mobile phone | Xiaomi       | Xiaomi 12S Pro | /             | /             |
| 3   | Apple watch  | Apple Inc.   | ultra 2        | /             | /             |

## 2.4. Block Diagram of connection between EUT and simulators

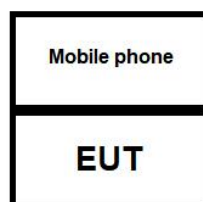
### Mode1&2&3



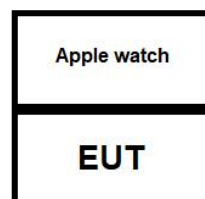
### Mode4&5&6



### Mode7&8&9



### Mode10&11&12



## 2.5. Description of Test Modes

| Number | Modes                                                                 |
|--------|-----------------------------------------------------------------------|
| 1      | AC Mains + Mobile phone charging port (Battery Status:≤1%)-Battery 1  |
| 2      | AC Mains + Mobile phone charging port (Battery Status:50%)-Battery 1  |
| 3      | AC Mains + Mobile phone charging port (Battery Status:≥98%)-Battery 1 |
| 4      | AC Mains + Apple watch charging port (Battery Status:≤1%)-Battery 1   |
| 5      | AC Mains + Apple watch charging port(Battery Status:50%)-Battery 1    |
| 6      | AC Mains + Apple watch charging port(Battery Status:≥98%)-Battery 1   |
| 7      | Mobile phone charging port (Battery Status:≤1%)-Battery 1             |
| 8      | Mobile phone charging port(Battery Status:50%)-Battery 1              |
| 9      | Mobile phone charging port(Battery Status:≥98%)-Battery 1             |
| 10     | Apple watch charging port (Battery Status:≤1%)-Battery 1              |
| 11     | Apple watch charging port(Battery Status:50%)-Battery 1               |
| 12     | Apple watch charging port(Battery Status:≥98%)-Battery 1              |
| 13     | Standby-Battery 1                                                     |
| 14     | AC Mains + Mobile phone charging port (Battery Status:≤1%)-Battery 2  |
| 15     | AC Mains + Mobile phone charging port (Battery Status:50%)-Battery 2  |
| 16     | AC Mains + Mobile phone charging port (Battery Status:≥98%)-Battery 2 |
| 17     | AC Mains + Apple watch charging port (Battery Status:≤1%)-Battery 2   |
| 18     | AC Mains + Apple watch charging port(Battery Status:50%)-Battery 2    |
| 19     | AC Mains + Apple watch charging port(Battery Status:≥98%)-Battery 2   |
| 20     | Mobile phone charging port (Battery Status:≤1%)-Battery 2             |
| 21     | Mobile phone charging port(Battery Status:50%)-Battery 2              |
| 22     | Mobile phone charging port(Battery Status:≥98%)-Battery 2             |
| 23     | Apple watch charging port (Battery Status:≤1%)-Battery 2              |
| 24     | Apple watch charging port(Battery Status:50%)-Battery 2               |
| 25     | Apple watch charging port(Battery Status:≥98%)-Battery 2              |
| 26     | Standby-Battery 2                                                     |

Note: 1. All modes were tested, only the AC and DC worst-case was recorded in the report. Mode 1 and Mode 7 is the worst mode.

2.Charging and discharging at the same time.

3.The EUT supports portable use.

## 2.6. Test Conditions

| Items              | Required  |
|--------------------|-----------|
| Temperature range: | 15-35°C   |
| Humidity range:    | 25-75%    |
| Pressure range:    | 86-106kPa |

## 2.7. Test Facility

Shenzhen PSI Testing Co., Ltd.

1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

September 13, 2023 File on Federal Communication Commission

Registration Number: 916281

## 2.8. Measurement Uncertainty

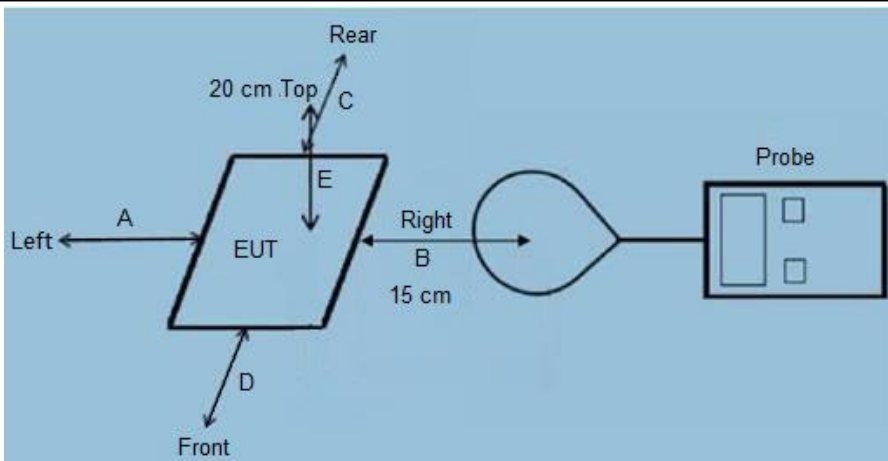
(95% confidence levels, k=2)

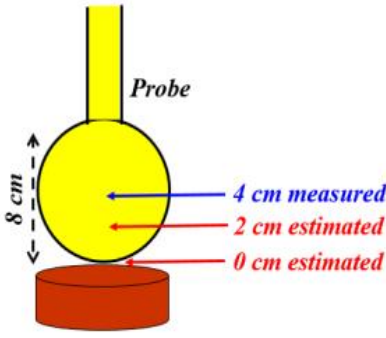
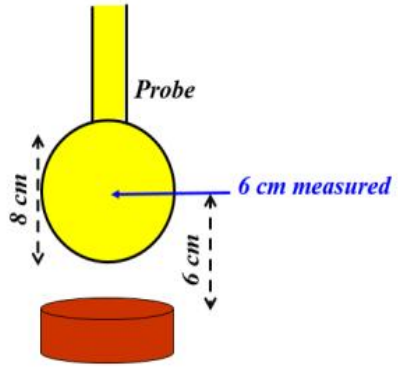
| Item                                          | Uncertainty |
|-----------------------------------------------|-------------|
| Uncertainty for H-Field                       | 2.39dB      |
| Uncertainty for E-Field                       | 2.45dB      |
| Uncertainty for conducted RF Power            | 0.65dB      |
| Uncertainty for temperature                   | 0.2°C       |
| Uncertainty for humidity                      | 1%          |
| Uncertainty for DC and low frequency voltages | 0.06%       |

### 3. Test Results and Measurement Data

#### 3.1. RF EXPOSURE TEST

##### 3.1.1. Test Specification

| Test Requirement:                                       | FCC Rules and Regulations KDB680106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                               |                               |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------|--------------------------|--------------------------------------------------|--|--|--|--|---------|-----|------|--------|---|--------|--------|--------|-----------|---|--------|------|-------|-----|---|----------|---|---|-------|---|--------------|---|---|---|---|---------------------------------------------------------|--|--|--|--|----------|-----|------|--------|----|---------|-------|--------|-----------|----|--------|------|-------|-----|----|----------|---|---|--------|----|--------------|---|---|-----|----|
| Test Method:                                            | 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 §2.1093 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                               |                               |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| Limits:                                                 | <p>According to the item 3 of KDB 680106 D01v04:<br/>Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.</p> <p>(1) Mobile Device and Portable Device Configurations<br/>(2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz<br/>(3) The aggregate H-field strengths anywhere at (0/2/4/6/8/10/12/14/16/18/20cm) surrounding the device six surfaces.</p> <p>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)</p> <table><tr><th>Frequency range (MHz)</th><th>Electric field strength (V/m)</th><th>Magnetic field strength (A/m)</th><th>Power density (mW/cm²)</th><th>Averaging time (minutes)</th></tr><tr><td colspan="5">(A) Limits for Occupational/Controlled Exposures</td></tr><tr><td>0.3-3.0</td><td>614</td><td>1.63</td><td>*(100)</td><td>6</td></tr><tr><td>3.0-30</td><td>1842/f</td><td>4.89/f</td><td>*(900/f²)</td><td>6</td></tr><tr><td>30-300</td><td>61.4</td><td>0.163</td><td>1.0</td><td>6</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/300</td><td>6</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>5</td><td>6</td></tr><tr><td colspan="5">(B) Limits for General Population/Uncontrolled Exposure</td></tr><tr><td>0.3-1.34</td><td>614</td><td>1.63</td><td>*(100)</td><td>30</td></tr><tr><td>1.34-30</td><td>824/f</td><td>2.19/f</td><td>*(180/f²)</td><td>30</td></tr><tr><td>30-300</td><td>27.5</td><td>0.073</td><td>0.2</td><td>30</td></tr><tr><td>300-1500</td><td>/</td><td>/</td><td>f/1500</td><td>30</td></tr><tr><td>1500-100,000</td><td>/</td><td>/</td><td>1.0</td><td>30</td></tr></table> <p>F=frequency in MHz<br/>*=Plane-wave equivalent power density<br/>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).</p> | Frequency range (MHz)         | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) | (A) Limits for Occupational/Controlled Exposures |  |  |  |  | 0.3-3.0 | 614 | 1.63 | *(100) | 6 | 3.0-30 | 1842/f | 4.89/f | *(900/f²) | 6 | 30-300 | 61.4 | 0.163 | 1.0 | 6 | 300-1500 | / | / | f/300 | 6 | 1500-100,000 | / | / | 5 | 6 | (B) Limits for General Population/Uncontrolled Exposure |  |  |  |  | 0.3-1.34 | 614 | 1.63 | *(100) | 30 | 1.34-30 | 824/f | 2.19/f | *(180/f²) | 30 | 30-300 | 27.5 | 0.073 | 0.2 | 30 | 300-1500 | / | / | f/1500 | 30 | 1500-100,000 | / | / | 1.0 | 30 |
| Frequency range (MHz)                                   | Electric field strength (V/m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Magnetic field strength (A/m) | Power density (mW/cm²)        | Averaging time (minutes)      |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| (A) Limits for Occupational/Controlled Exposures        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                               |                               |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 0.3-3.0                                                 | 614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.63                          | *(100)                        | 6                             |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 3.0-30                                                  | 1842/f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.89/f                        | *(900/f²)                     | 6                             |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 30-300                                                  | 61.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.163                         | 1.0                           | 6                             |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 300-1500                                                | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /                             | f/300                         | 6                             |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 1500-100,000                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /                             | 5                             | 6                             |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| (B) Limits for General Population/Uncontrolled Exposure |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                               |                               |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 0.3-1.34                                                | 614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.63                          | *(100)                        | 30                            |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 1.34-30                                                 | 824/f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.19/f                        | *(180/f²)                     | 30                            |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 30-300                                                  | 27.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.073                         | 0.2                           | 30                            |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 300-1500                                                | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /                             | f/1500                        | 30                            |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| 1500-100,000                                            | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | /                             | 1.0                           | 30                            |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |
| Test Setup:                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               |                               |                               |                        |                          |                                                  |  |  |  |  |         |     |      |        |   |        |        |        |           |   |        |      |       |     |   |          |   |   |       |   |              |   |   |   |   |                                                         |  |  |  |  |          |     |      |        |    |         |       |        |           |    |        |      |       |     |    |          |   |   |        |    |              |   |   |     |    |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p style="text-align: center;">Figure 1</p>  <p style="text-align: center;">Figure 2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Mode:</b>      | <p>Communication Mode<br/>(Mobile phone will be charged at zero charge, intermediate charge, and full charge.)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Test Procedure:</b> | <ol style="list-style-type: none"> <li>1) The RF exposure test was performed in anechoic chamber.</li> <li>2) The measurement probe was placed at test distance (0/2/4/6/8/10/12/14/16/18/20cm) which is between the edge of the charger and the geometric center of probe.</li> <li>3) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E, F) were completed.</li> <li>4) The EUT was measured according to the dictates of KDB 680106 D01v04.</li> <li>5) Large size probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 2. These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 2, at least the estimates at 0 cm and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two closest points to the device surface, and with 2-cm increments, as indicated in Figure 2. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.</li> </ol> |
| <b>Test Result:</b>    | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### 3.1.2. Test Instruments

| Item | Equipment                   | Manufacturer | Model No.        | Serial No. | Last Cal.  | Cal. Interval |
|------|-----------------------------|--------------|------------------|------------|------------|---------------|
| 1    | Exposure Level Tester       | narda        | ELT-400          | O-0729     | 2024.05.06 | 1 Year        |
| 2    | Magnetic field probe 100cm2 | narda        | ELT probe 100cm2 | M-2116     | 2024.05.06 | 1 Year        |

Note: The probe radius is 8 cm

### 3.1.3. Test data

The probe radius is 8 cm.

E-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

| Charging Battery Level | Measured Distance (cm) | Measured E-Field Strength Values (V/m) |                 |                 |                 |                 |                 | FCC E-Field Strength Limits (V/m) |
|------------------------|------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
|                        |                        | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F |                                   |
| 99%                    | 8                      | 20.367                                 | 15.475          | 15.704          | 21.049          | 20.111          | 20.249          | 614                               |
| 50%                    | 8                      | 19.236                                 | 15.086          | 17.481          | 20.352          | 21.429          | 20.632          | 614                               |
| 1%                     | 8                      | 21.685                                 | 17.822          | 19.040          | 19.040          | 19.604          | 19.541          | 614                               |
| 99%                    | 10                     | 20.835                                 | 17.264          | 16.784          | 19.559          | 21.076          | 20.816          | 614                               |
| 50%                    | 10                     | 20.316                                 | 14.513          | 17.885          | 21.121          | 22.005          | 20.313          | 614                               |
| 1%                     | 10                     | 20.361                                 | 13.626          | 17.616          | 19.863          | 20.020          | 19.875          | 614                               |
| 99%                    | 12                     | 18.998                                 | 13.376          | 18.373          | 20.702          | 21.079          | 19.324          | 614                               |
| 50%                    | 12                     | 22.113                                 | 17.080          | 17.004          | 18.995          | 19.562          | 21.836          | 614                               |
| 1%                     | 12                     | 20.970                                 | 17.993          | 16.950          | 21.178          | 19.336          | 20.593          | 614                               |
| 99%                    | 14                     | 21.389                                 | 18.687          | 18.497          | 19.191          | 21.052          | 19.960          | 614                               |
| 50%                    | 14                     | 18.913                                 | 14.323          | 17.249          | 21.377          | 21.465          | 21.866          | 614                               |
| 1%                     | 14                     | 19.260                                 | 12.563          | 16.576          | 20.337          | 21.573          | 21.661          | 614                               |
| 99%                    | 16                     | 19.915                                 | 18.895          | 17.728          | 21.127          | 20.729          | 18.829          | 614                               |
| 50%                    | 16                     | 22.219                                 | 18.072          | 15.909          | 20.711          | 20.693          | 20.047          | 614                               |
| 1%                     | 16                     | 21.956                                 | 18.889          | 16.341          | 19.453          | 21.724          | 20.204          | 614                               |
| 99%                    | 18                     | 20.011                                 | 18.729          | 18.778          | 21.969          | 19.164          | 20.955          | 614                               |
| 50%                    | 18                     | 22.189                                 | 15.614          | 15.973          | 20.289          | 19.387          | 21.697          | 614                               |
| 1%                     | 18                     | 19.495                                 | 18.678          | 18.666          | 21.926          | 19.396          | 18.757          | 614                               |
| 99%                    | 20                     | 19.685                                 | 13.120          | 15.737          | 19.429          | 20.768          | 20.533          | 614                               |
| 50%                    | 20                     | 21.076                                 | 17.161          | 18.060          | 20.648          | 19.001          | 18.865          | 614                               |
| 1%                     | 20                     | 20.988                                 | 14.350          | 16.899          | 20.810          | 21.920          | 21.923          | 614                               |

Note: V/m= A/m \*377

## H-Field Strength at 8/10/12/14/16/18/20cm from the edges surrounding the EUT

| Charging Battery Level | Measured Distance (cm) | Unit | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 |                 | FCC H-Field Strength Limits (A/m) |
|------------------------|------------------------|------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
|                        |                        |      | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F |                                   |
| 99%                    | 8                      | uT   | 0.068                                  | 0.051           | 0.052           | 0.070           | 0.067           | 0.067           | --                                |
| 99%                    | 8                      | A/m  | 0.054                                  | 0.041           | 0.042           | 0.056           | 0.053           | 0.054           | 1.63                              |
| 50%                    | 8                      | uT   | 0.064                                  | 0.050           | 0.058           | 0.067           | 0.071           | 0.068           | --                                |
| 50%                    | 8                      | A/m  | 0.051                                  | 0.040           | 0.046           | 0.054           | 0.057           | 0.055           | 1.63                              |
| 1%                     | 8                      | uT   | 0.072                                  | 0.059           | 0.062           | 0.063           | 0.065           | 0.065           | --                                |
| 1%                     | 8                      | A/m  | 0.058                                  | 0.047           | 0.049           | 0.051           | 0.052           | 0.052           | 1.63                              |
| 99%                    | 10                     | uT   | 0.069                                  | 0.057           | 0.056           | 0.065           | 0.070           | 0.069           | --                                |
| 99%                    | 10                     | A/m  | 0.055                                  | 0.046           | 0.045           | 0.052           | 0.056           | 0.055           | 1.63                              |
| 50%                    | 10                     | uT   | 0.067                                  | 0.048           | 0.059           | 0.070           | 0.073           | 0.067           | --                                |
| 50%                    | 10                     | A/m  | 0.054                                  | 0.038           | 0.047           | 0.056           | 0.058           | 0.054           | 1.63                              |
| 1%                     | 10                     | uT   | 0.068                                  | 0.045           | 0.058           | 0.066           | 0.066           | 0.066           | --                                |
| 1%                     | 10                     | A/m  | 0.054                                  | 0.036           | 0.047           | 0.053           | 0.053           | 0.053           | 1.63                              |
| 99%                    | 12                     | uT   | 0.063                                  | 0.044           | 0.061           | 0.069           | 0.070           | 0.064           | --                                |
| 99%                    | 12                     | A/m  | 0.050                                  | 0.035           | 0.049           | 0.055           | 0.056           | 0.051           | 1.63                              |
| 50%                    | 12                     | uT   | 0.073                                  | 0.057           | 0.056           | 0.063           | 0.065           | 0.072           | --                                |
| 50%                    | 12                     | A/m  | 0.059                                  | 0.045           | 0.045           | 0.050           | 0.052           | 0.058           | 1.63                              |
| 1%                     | 12                     | uT   | 0.070                                  | 0.060           | 0.056           | 0.070           | 0.064           | 0.068           | --                                |
| 1%                     | 12                     | A/m  | 0.056                                  | 0.048           | 0.045           | 0.056           | 0.051           | 0.055           | 1.63                              |
| 99%                    | 14                     | uT   | 0.071                                  | 0.062           | 0.061           | 0.064           | 0.070           | 0.066           | --                                |
| 99%                    | 14                     | A/m  | 0.057                                  | 0.050           | 0.049           | 0.051           | 0.056           | 0.053           | 1.63                              |
| 50%                    | 14                     | uT   | 0.063                                  | 0.047           | 0.057           | 0.071           | 0.071           | 0.073           | --                                |
| 50%                    | 14                     | A/m  | 0.050                                  | 0.038           | 0.046           | 0.057           | 0.057           | 0.058           | 1.63                              |
| 1%                     | 14                     | uT   | 0.064                                  | 0.057           | 0.055           | 0.067           | 0.072           | 0.072           | --                                |
| 1%                     | 14                     | A/m  | 0.051                                  | 0.045           | 0.044           | 0.054           | 0.057           | 0.057           | 1.63                              |
| 99%                    | 16                     | uT   | 0.066                                  | 0.063           | 0.059           | 0.070           | 0.069           | 0.062           | --                                |
| 99%                    | 16                     | A/m  | 0.053                                  | 0.050           | 0.047           | 0.056           | 0.055           | 0.050           | 1.63                              |
| 50%                    | 16                     | uT   | 0.074                                  | 0.060           | 0.053           | 0.069           | 0.069           | 0.066           | --                                |
| 50%                    | 16                     | A/m  | 0.059                                  | 0.048           | 0.042           | 0.055           | 0.055           | 0.053           | 1.63                              |
| 1%                     | 16                     | uT   | 0.073                                  | 0.063           | 0.054           | 0.065           | 0.072           | 0.067           | --                                |
| 1%                     | 16                     | A/m  | 0.058                                  | 0.050           | 0.043           | 0.052           | 0.058           | 0.054           | 1.63                              |
| 99%                    | 18                     | uT   | 0.066                                  | 0.062           | 0.062           | 0.073           | 0.064           | 0.069           | --                                |
| 99%                    | 18                     | A/m  | 0.053                                  | 0.050           | 0.050           | 0.058           | 0.051           | 0.056           | 1.63                              |
| 50%                    | 18                     | uT   | 0.074                                  | 0.052           | 0.053           | 0.067           | 0.064           | 0.072           | --                                |
| 50%                    | 18                     | A/m  | 0.059                                  | 0.041           | 0.042           | 0.054           | 0.051           | 0.058           | 1.63                              |
| 1%                     | 18                     | uT   | 0.065                                  | 0.062           | 0.062           | 0.073           | 0.064           | 0.062           | --                                |
| 1%                     | 18                     | A/m  | 0.052                                  | 0.050           | 0.050           | 0.058           | 0.051           | 0.050           | 1.63                              |
| 99%                    | 20                     | uT   | 0.065                                  | 0.044           | 0.052           | 0.064           | 0.069           | 0.068           | --                                |
| 99%                    | 20                     | A/m  | 0.052                                  | 0.035           | 0.042           | 0.052           | 0.055           | 0.054           | 1.63                              |
| 50%                    | 20                     | uT   | 0.070                                  | 0.057           | 0.060           | 0.068           | 0.063           | 0.063           | --                                |

|     |    |     |       |       |       |       |       |       |      |
|-----|----|-----|-------|-------|-------|-------|-------|-------|------|
| 50% | 20 | A/m | 0.056 | 0.046 | 0.048 | 0.055 | 0.050 | 0.050 | 1.63 |
| 1%  | 20 | uT  | 0.070 | 0.048 | 0.056 | 0.069 | 0.073 | 0.073 | --   |
| 1%  | 20 | A/m | 0.056 | 0.038 | 0.045 | 0.055 | 0.058 | 0.058 | 1.63 |

Note: A/m=uT/1.25

#### According to the formula:

The formula for the magnetic field strength at a distance r from the coil is

$$H = I/(2\pi r) \cdot \mu$$

H is A/m

I is the current intensity

$\mu$  is the permeability, and its value depends on the medium.

The other parameters are fixed, so H is inversely proportional to r.

ABCDEF direction The actual distance(r) to the antenna coil.

| measured distance(cm) | Actual distance r to the antenna (cm) |                 |                 |                 |                 |                 |
|-----------------------|---------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                       | Test Position A                       | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F |
| 20                    | 23.235                                | 20.825          | 21.512          | 21.425          | 20.723          | 21.665          |
| 18                    | 22.235                                | 18.825          | 19.512          | 19.425          | 17.723          | 19.665          |
| 16                    | 20.235                                | 15.825          | 17.512          | 16.425          | 16.723          | 16.665          |
| 14                    | 18.235                                | 14.825          | 15.512          | 15.425          | 14.723          | 15.665          |
| 12                    | 17.235                                | 12.825          | 13.512          | 13.425          | 12.723          | 13.665          |
| 10                    | 14.235                                | 11.825          | 11.512          | 11.425          | 10.723          | 11.665          |
| 8                     | 12.235                                | 8.825           | 8.512           | 9.425           | 8.723           | 9.665           |
| 6                     | 11.235                                | 6.825           | 6.512           | 7.425           | 6.723           | 7.665           |
| 4                     | 9.235                                 | 4.825           | 5.512           | 5.425           | 4.723           | 5.665           |
| 2                     | 7.235                                 | 2.825           | 3.512           | 3.425           | 2.723           | 3.665           |
| 0                     | 5.235                                 | 1.825           | 1.512           | 1.425           | 0.723           | 1.665           |

Note: The phone is 8.35mm thick.

The result is calculated by the above formula:

H-Field Strength at 0/2/4/6cm from the edges surrounding the EUT

1. Magnetic field on the axis of a current-carrying circle coil:

$$B = \frac{\mu_0 I R^2}{2(R^2 + X^2)^{\frac{3}{2}}}$$

R is the coil outside diameter radius. X is the distance from the test point to the center of the coil circle. B is the magnetic magnetic field.

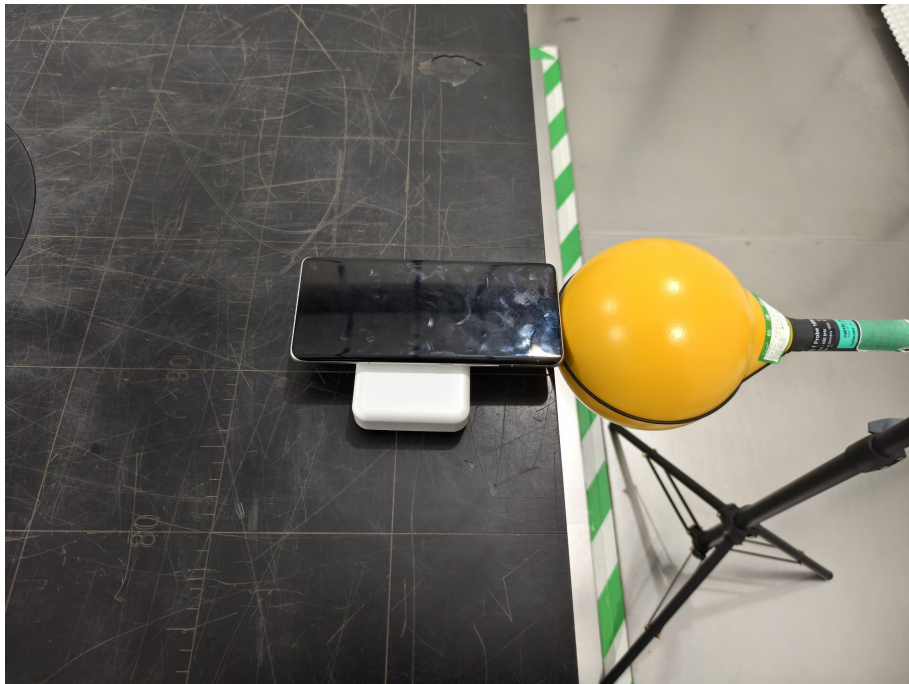
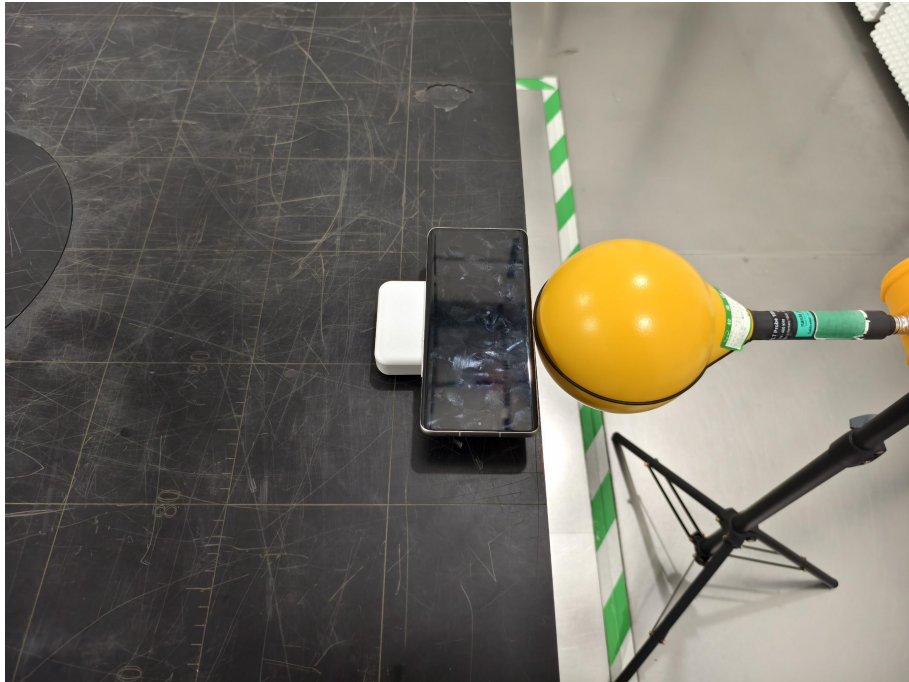
2. According to the KDB 680106, the model needs to be validated by probe measurements at the two points closest to the surface of the device, in 2cm increments, and if there is a 30% agreement between the model and the (E-field and/or h-field) probe measurements, the validation is considered sufficient.

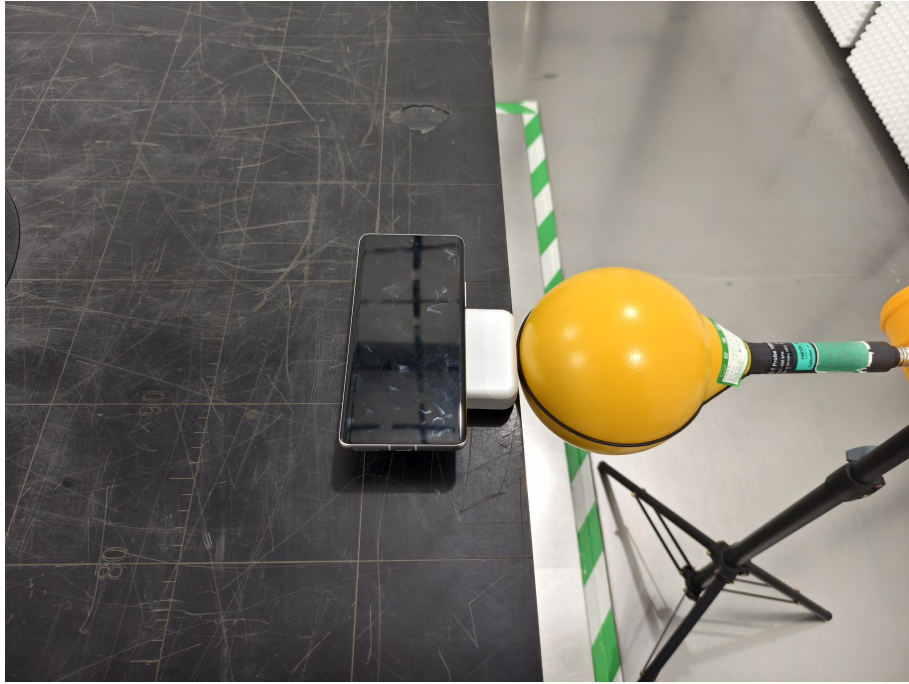
3. We derived the field strengths at 10cm to 8cm and 8cm to 6cm, respectively, which are close to the actual test values, based on the field strength at 6 cm, the field strength at 4cm and 2cm and 0 cm can be deduced.

| Charging Battery Level | Measured Distance (cm) | Unit | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 |                 | FCC H-Field Strength Limits (A/m) |
|------------------------|------------------------|------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------------|
|                        |                        |      | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F |                                   |
| 1%                     | 0                      | A/m  | 0.7070                                 | 0.6709          | 0.6595          | 0.6809          | 0.6523          | 0.6311          | 1.63                              |
| 50%                    | 0                      | A/m  | 0.6718                                 | 0.6729          | 0.6934          | 0.6404          | 0.6495          | 0.7113          | 1.63                              |
| 99%                    | 0                      | A/m  | 0.7124                                 | 0.7055          | 0.7025          | 0.7374          | 0.7013          | 0.6333          | 1.63                              |
| 1%                     | 2                      | A/m  | 0.7384                                 | 0.6227          | 0.6482          | 0.6569          | 0.6441          | 0.6629          | 1.63                              |
| 50%                    | 2                      | A/m  | 0.6657                                 | 0.7144          | 0.6533          | 0.7385          | 0.6621          | 0.6974          | 1.63                              |
| 99%                    | 2                      | A/m  | 0.6671                                 | 0.7127          | 0.6539          | 0.6889          | 0.7171          | 0.6555          | 1.63                              |
| 1%                     | 4                      | A/m  | 0.6943                                 | 0.6753          | 0.6309          | 0.7065          | 0.6921          | 0.6711          | 1.63                              |
| 50%                    | 4                      | A/m  | 0.6857                                 | 0.7093          | 0.6293          | 0.6370          | 0.6282          | 0.6489          | 1.63                              |
| 99%                    | 4                      | A/m  | 0.6437                                 | 0.6948          | 0.6689          | 0.6295          | 0.7364          | 0.6736          | 1.63                              |
| 1%                     | 6                      | A/m  | 0.6910                                 | 0.6969          | 0.7230          | 0.7203          | 0.7293          | 0.7201          | 1.63                              |
| 50%                    | 6                      | A/m  | 0.6591                                 | 0.6726          | 0.6857          | 0.6938          | 0.7192          | 0.6962          | 1.63                              |
| 99%                    | 6                      | A/m  | 0.6306                                 | 0.6761          | 0.6435          | 0.6454          | 0.7102          | 0.6754          | 1.63                              |

#### 4. Photos of test setup

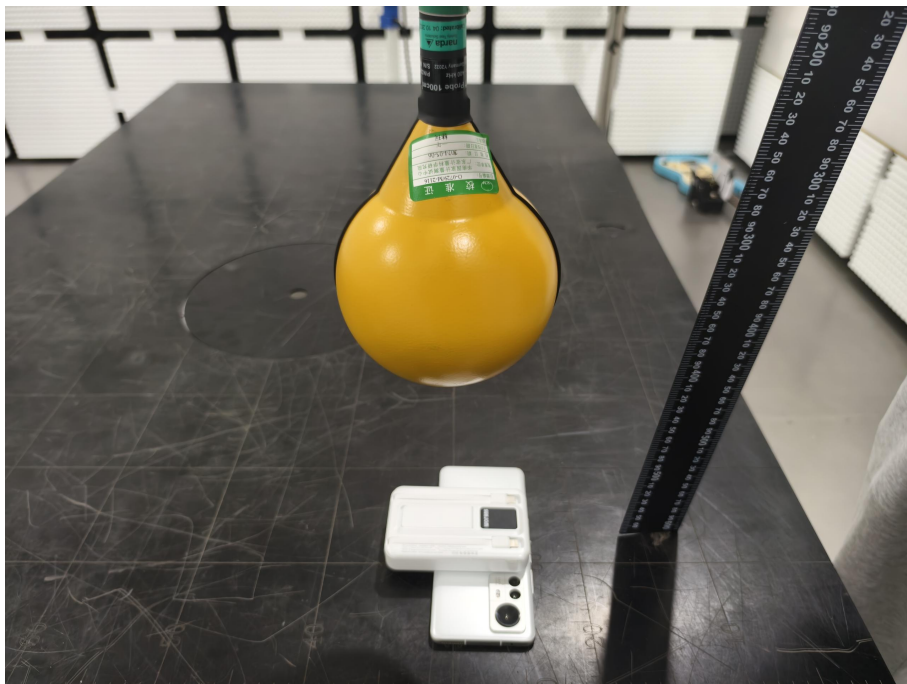
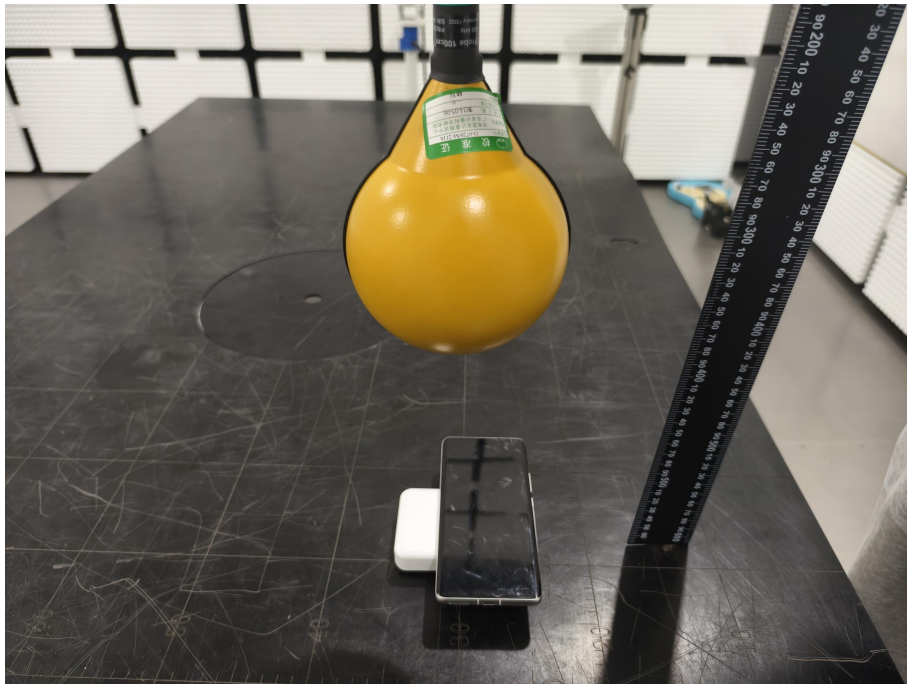
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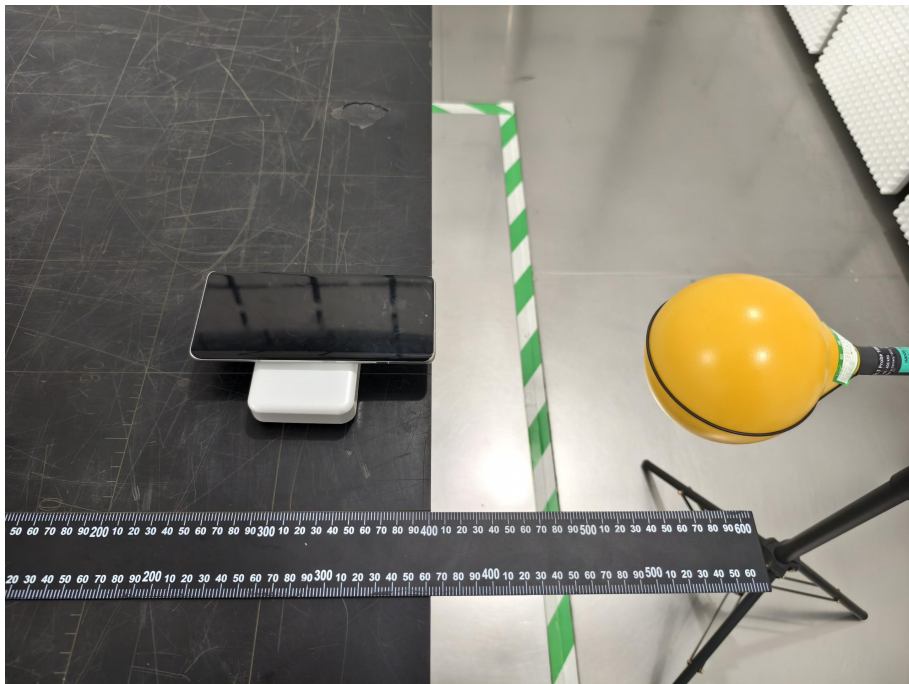
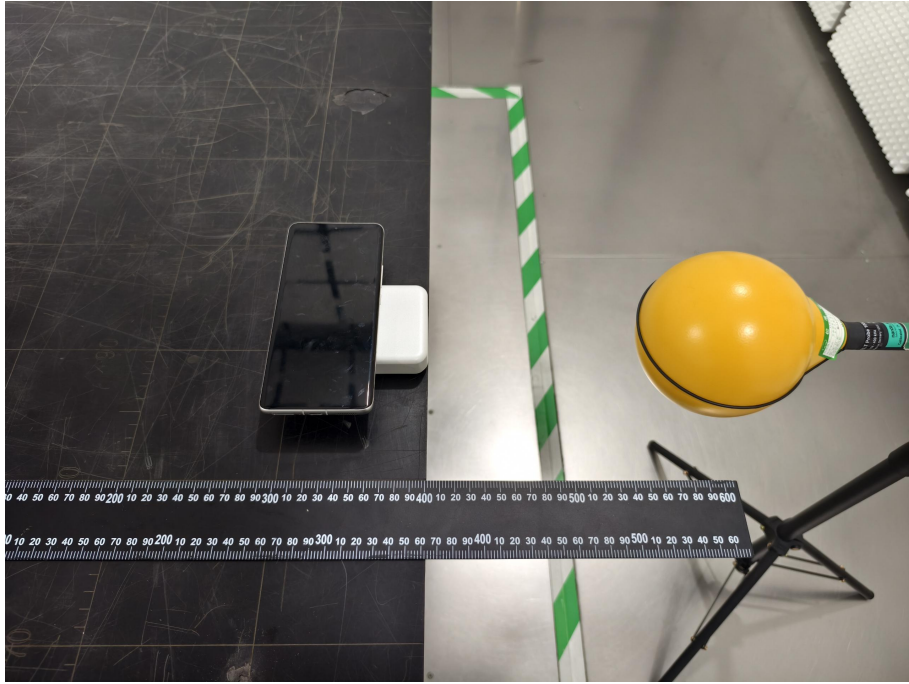


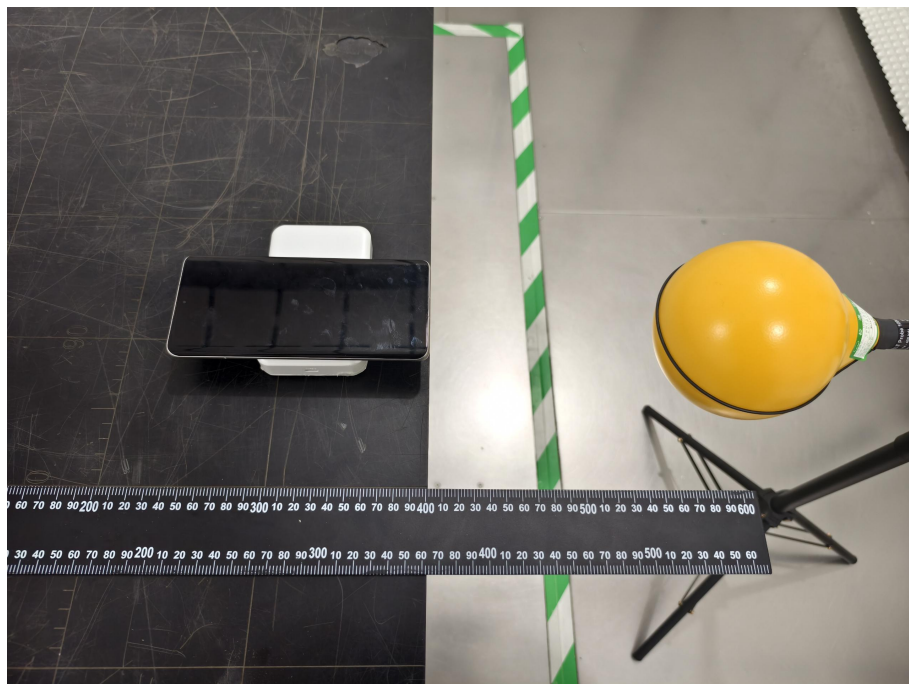




20cm







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