

FCC TEST REPORT

FCC ID: 2AXY5-P30-5K

On Behalf of

Shenzhen Yifeng Intelligent Technology Co., Ltd.

Magnetic Wireless Power Bank

Model No.:P30-5K

Prepared for : Shenzhen Yifeng Intelligent Technology Co., Ltd.
Address : 201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang
Cheng Street, Bao An District, Shenzhen.

Prepared By : Shenzhen PSI Testing Co., Ltd.
Address : 1-2/F., Building 5, Yudafu Industrial Park, No.10, Xingye West Road,
Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Report Number : psi2509129-C01-R02
Date of Receipt : Sept. 5, 2025
Date of Test : Sept. 5, 2025-Sept. 22, 2025
Date of Report : Sept. 22, 2025
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TEST REPORT DECLARATION

Applicant : Shenzhen Yifeng Intelligent Technology Co., Ltd.
Address : 201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.
Manufacturer : Shenzhen Yifeng Intelligent Technology Co., Ltd.
Address : 201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Cheng Street, Bao An District, Shenzhen.
EUT Description : Magnetic Wireless Power Bank
(A) Model No. : P30-5K
(B) Trademark : YFZN

Measurement Standard Used:

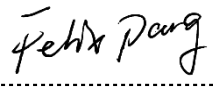
FCC CFR 47 PART 1, FCC CFR 47 part1, 1.1307(b), 1.1310, 2.1093

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.....: Sept. 22, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	Sept. 22, 2025	Initial released Issue	Felix Pang

1. Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1), §1.1310, §2.1093 & KDB680106 D01	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 Power Bank
Model No.	: P30-5K
DIFF.	: The product has different colored shells, and this test used EUT with white shells. the test data of EUT with white shell can represent the remaining colors.
Power supply	: Input: 5 V $\pm$ 3 A, 9 V $\pm$ 2.22 A, 12 V $\pm$ 1.67 A(20W) Wireless output: 15 W(Max) Type-c output: 5 V $\pm$ 3 A, 9 V $\pm$ 2.22 A, 12 V $\pm$ 1.67 A(20W) Battery Capacity: 5000mAh(DC 3.85 V/19.25Wh)
Radio Technology	: Wireless power transmission systems
Operation frequency	: Phone charging: 115-360 KHz
Modulation	: ASK
Antenna Type	: Coil Antenna
Connector cable loss	: 0dBi
Software version	: V1.0
Hardware version	: V1.0
Note	: Antenna information is provided by applicant. Testing lab is not responsible for the accuracy of the information.

2.2. Accessories of Device (EUT)

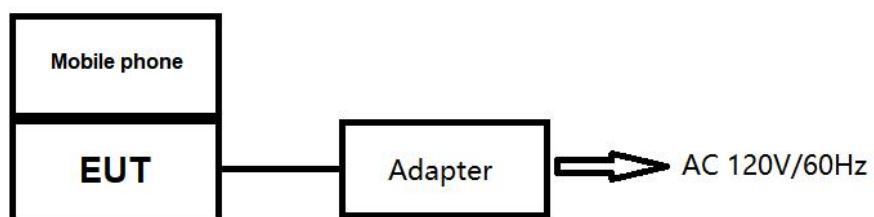
Accessories	:	N/A
Manufacturer	:	N/A
Model	:	N/A
specifications	:	N/A

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	AC ADAPTER	Xiaomi	MDY-08-EH	/	/
2	Mobile phone	iQOO	iQOO 12 Pro	/	/

2.4. Block Diagram of connection between EUT and simulators

Mode1&2&3:



Mode4&5&6:



2.5. Equipment Approval Considerations

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

Requirements of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Portable Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 115-360 KHz

2.6. Description of Test Modes

Number	Modes
1	AC Mains + Phone charging port (Battery Status:≤1%)
2	AC Mains + Phone charging port (Battery Status:50%)
3	AC Mains + Phone charging port (Battery Status:≥98%)
4	Phone charging port (Battery Status:≤1%)
5	Phone charging port (Battery Status:50%)
6	Phone charging port (Battery Status:≥98%)
7	Standby
Note: 1. All modes were tested, only the Mode 1 and Mode 4 worst-case was recorded in the report. 2.Charging and discharging at the same time. 3.The EUT supports portable use.	

2.7. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	26℃
Humidity range:	25-75%	54%
Pressure range:	86-106kPa	101kPa

2.8. 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

2.9. Measurement Uncertainty

(95% confidence levels, k=2)

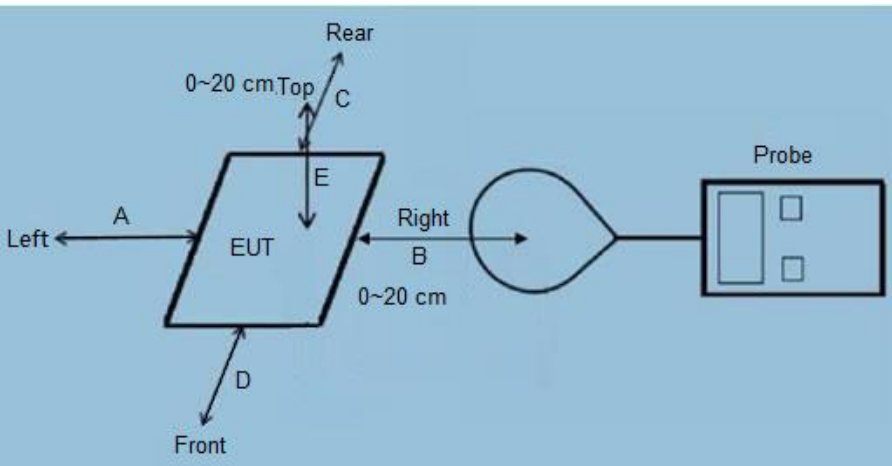
Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

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:	According to the item 3 of KDB 680106 D01v04: Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation. (1) Mobile Device and Portable Device Configurations (2) Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz (3) The aggregate H-field strengths anywhere at (0/2/4/6/8/10/12/14/16/18/20cm) surrounding the device six surfaces. 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) <table border="1"> <thead> <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> </thead> <tbody> <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> </tbody> </table> F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	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/f ²)	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/f ²)	30	30-300	27.5	0.073	0.2	30	300-1500	/	/	f/1500	30	1500-100,000	/	/	1.0	30
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Test Setup:	 Figure 1 Figure 2
Test Mode:	Communication Mode (Mobile phone will be charged at zero charge, intermediate charge, and full charge.)
Test Procedure:	1) The RF exposure test was performed in anechoic chamber. 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. 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. 4) The EUT was measured according to the dictates of KDB 680106 D01v04. 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.
Test Result:	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	2025.05.22	1 Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	M-2116	2025.05.22	1 Year

Note: The probe radius is 6.25 cm

3.1.3. Test data

The probe radius is 6.25 cm.

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	0.0067	0.0043	0.0057	0.0068	0.0069	0.0062	--
99%	8	A/m	0.0053	0.0034	0.0045	0.0054	0.0055	0.0050	1.63
50%	8	uT	0.0065	0.0050	0.0053	0.0067	0.0067	0.0062	--
50%	8	A/m	0.0052	0.0040	0.0042	0.0053	0.0054	0.0050	1.63
1%	8	uT	0.0069	0.0056	0.0060	0.0064	0.0072	0.0063	--
1%	8	A/m	0.0055	0.0045	0.0048	0.0151	0.0058	0.005	1.63
99%	10	uT	0.0072	0.0057	0.0057	0.0072	0.0067	0.0072	--
99%	10	A/m	0.0058	0.0046	0.0046	0.0058	0.0054	0.0058	1.63
50%	10	uT	0.0070	0.0054	0.0062	0.0070	0.0068	0.0063	--
50%	10	A/m	0.0056	0.0043	0.0049	0.0056	0.0054	0.0050	1.63
1%	10	uT	0.0071	0.0043	0.0058	0.0069	0.0063	0.0063	--
1%	10	A/m	0.0457	0.0034	0.0046	0.0115	0.005	0.005	1.63
99%	12	uT	0.0068	0.0056	0.0056	0.0072	0.0067	0.0068	--
99%	12	A/m	0.0055	0.0045	0.0045	0.0058	0.0054	0.0054	1.63
50%	12	uT	0.0069	0.0049	0.0058	0.0066	0.0063	0.0070	--
50%	12	A/m	0.0056	0.0039	0.0047	0.0053	0.0050	0.0056	1.63
1%	12	uT	0.0071	0.0042	0.0059	0.0064	0.0063	0.0065	--
1%	12	A/m	0.0257	0.0034	0.0047	0.0051	0.0050	0.0052	1.63
99%	14	uT	0.0073	0.0057	0.0055	0.0066	0.0072	0.0063	--
99%	14	A/m	0.0059	0.0045	0.0044	0.0053	0.0057	0.0050	1.63
50%	14	uT	0.0070	0.0042	0.0056	0.0064	0.0063	0.0064	--
50%	14	A/m	0.0056	0.0034	0.0045	0.0052	0.0050	0.0051	1.63
1%	14	uT	0.0065	0.0058	0.0062	0.0064	0.0064	0.0068	--
1%	14	A/m	0.0052	0.0046	0.0050	0.0051	0.0052	0.0054	1.63
99%	16	uT	0.0063	0.0054	0.0062	0.0694	0.0676	0.0651	--
99%	16	A/m	0.0051	0.0044	0.0049	0.0555	0.0541	0.0520	1.63
50%	16	uT	0.0070	0.0062	0.0052	0.0069	0.0071	0.0072	--
50%	16	A/m	0.0056	0.0050	0.0042	0.0055	0.0057	0.0057	1.63
1%	16	uT	0.0071	0.0060	0.0063	0.0064	0.0070	0.0068	--
1%	16	A/m	0.0057	0.0048	0.0050	0.0051	0.0056	0.0054	1.63
99%	18	uT	0.0063	0.0043	0.0059	0.0067	0.0064	0.0065	--
99%	18	A/m	0.0050	0.0034	0.0047	0.0053	0.0051	0.0052	1.63
50%	18	uT	0.0066	0.0055	0.0053	0.0070	0.0072	0.0065	--
50%	18	A/m	0.0053	0.0044	0.0042	0.0056	0.0058	0.0052	1.63
1%	18	uT	0.0072	0.0058	0.0057	0.0063	0.0067	0.0070	--
1%	18	A/m	0.0058	0.0046	0.0046	0.0050	0.0054	0.0056	1.63
99%	20	uT	0.0071	0.0051	0.0053	0.0071	0.0071	0.0072	--

99%	20	A/m	0.0056	0.0041	0.0042	0.0057	0.0057	0.0058	1.63
50%	20	uT	0.0073	0.0042	0.0063	0.0070	0.0066	0.0063	--
50%	20	A/m	0.0059	0.0034	0.0050	0.0056	0.0053	0.0050	1.63
1%	20	uT	0.0064	0.0051	0.0059	0.0705	0.0070	0.0062	--
1%	20	A/m	0.0052	0.0041	0.0047	0.0564	0.0056	0.0050	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

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

H is A/m

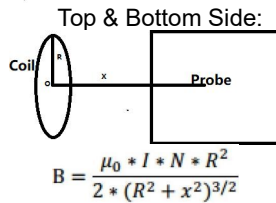
I is the current intensity

μ is the permeability, and its value depends on the medium.

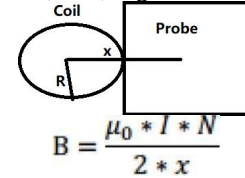
The other parameters are fixed, so H is inversely proportional to r.

X is the distance from the test point to the center of the coil circle.

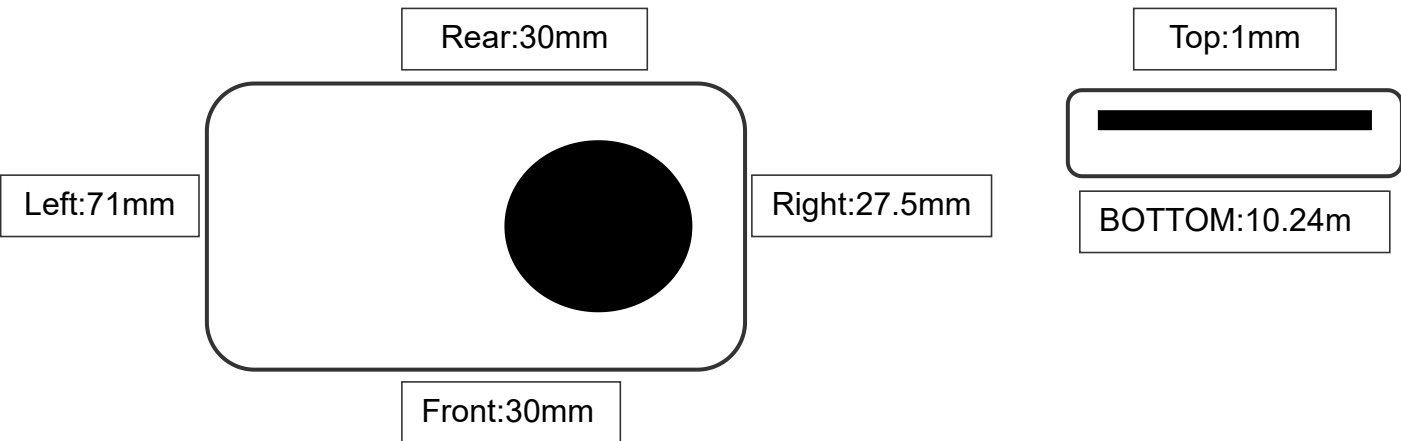
$$B = \frac{\mu_0 I R^2}{2(R^2 + X^2)^{3/2}}$$



Front, Left, Right & Rear Side:



Symbol	Definition
B	means H-field value. (Unit: A/m)
μ_0	is space permeability, $\mu_0 = 4\pi * 10^{-7}$.
I	a current element passing through a coil. (Unit: A)
R	the distance from the center point of the wireless charging device to other edges. $R = 42.3/2 = 21.2\text{mm} = 0.0212\text{m}$
X	means the evaluated point to the coil center. (For top & bottom side: $x = \text{test distance}$; For other side: $x = \text{test distance} + R$)
N	Number of turns, according to provided "Antenna specification" files: $N = 11$



The result is calculated by the above formula:
H-Field Strength at 0/2/4/6cm 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	
1%	0	A/m	0.0725	0.0719	0.0684	0.0676	0.0692	0.0719	1.63
50%	0	A/m	0.0676	0.0661	0.0652	0.0728	0.0653	0.0668	1.63
99%	0	A/m	0.0733	0.0737	0.0706	0.0689	0.0710	0.0704	1.63
1%	2	A/m	0.0717	0.0738	0.0713	0.0681	0.0690	0.0652	1.63
50%	2	A/m	0.0712	0.0691	0.0651	0.0720	0.0682	0.0682	1.63
99%	2	A/m	0.0644	0.0701	0.0735	0.0622	0.0679	0.0703	1.63
1%	4	A/m	0.0670	0.0710	0.0651	0.0689	0.0714	0.0682	1.63
50%	4	A/m	0.0731	0.0631	0.0636	0.0639	0.0706	0.0649	1.63
99%	4	A/m	0.0737	0.0627	0.0726	0.0689	0.0651	0.0628	1.63
1%	6	A/m	0.0696	0.0648	0.0712	0.0623	0.0734	0.0716	1.63
50%	6	A/m	0.0679	0.0676	0.0637	0.0644	0.0658	0.0689	1.63
99%	6	A/m	0.0709	0.0636	0.0693	0.0647	0.0647	0.0663	1.63

A table of error data between the assessed and measured values:

Distance (cm)	Measurements(A/m)	Distance (cm)	Assessed(A/m)	Error(%)	Limit(%)
10	0.0457	12 to 10	0.0482	6.10	<30
8	0.0151	10 to 8	0.0190	20.45	<30

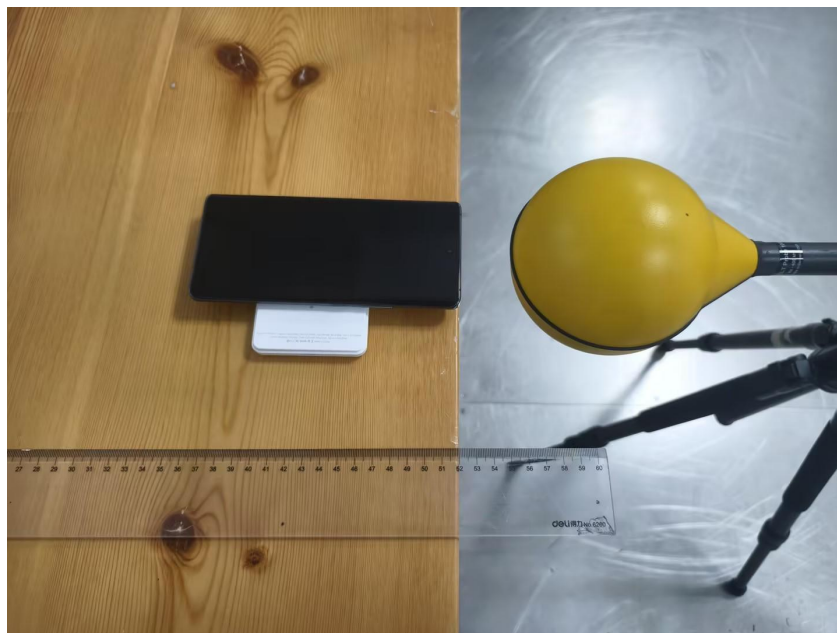
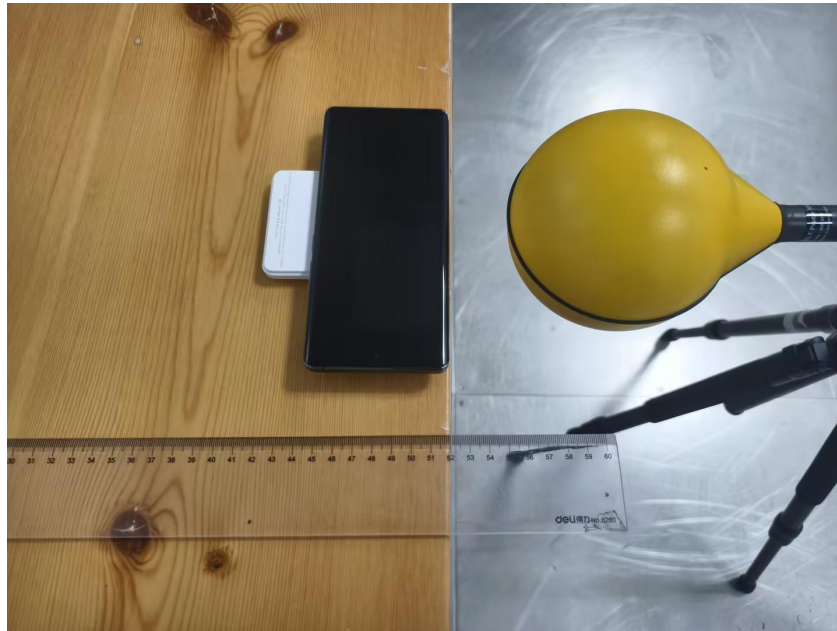
3.1.4. Conclusion

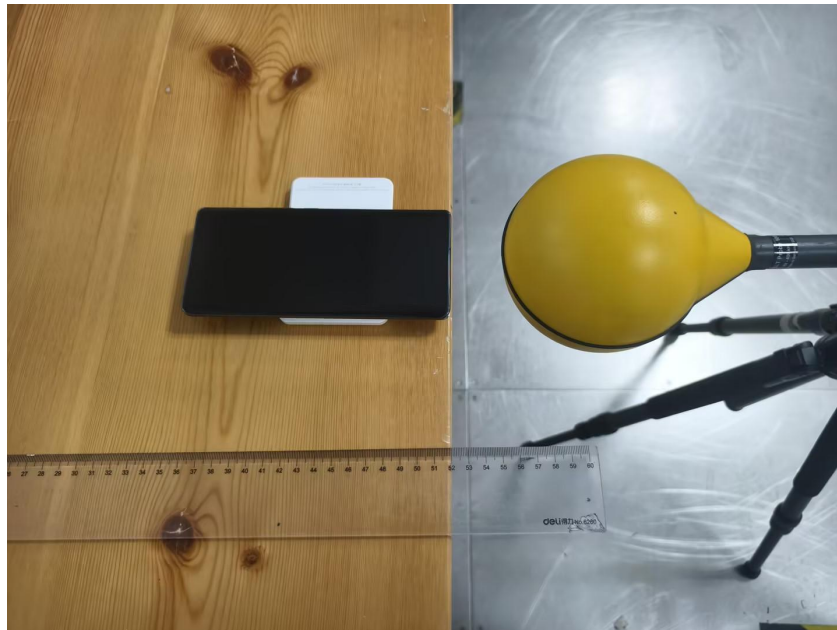
A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

The model was established with a 30% agreement, so it was considered to be approved.

4. Photos of test setup

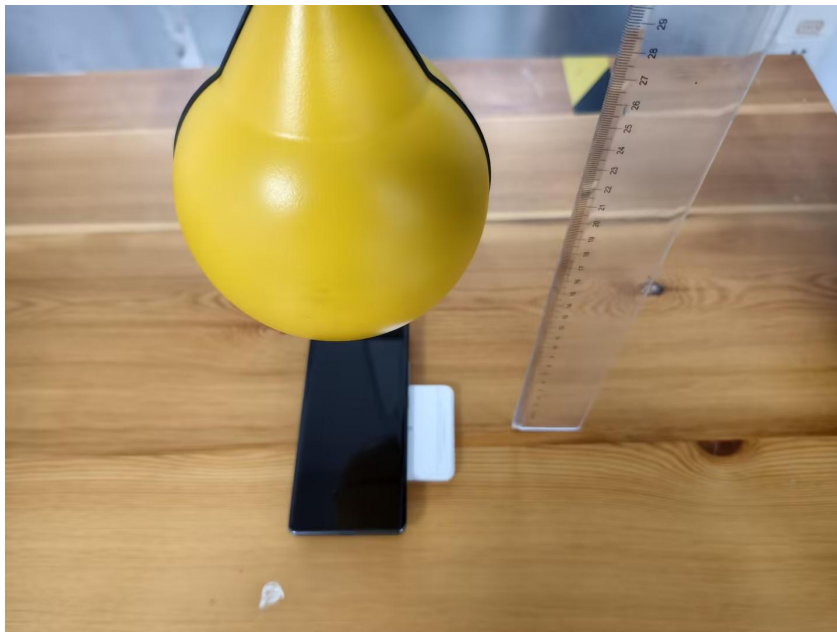
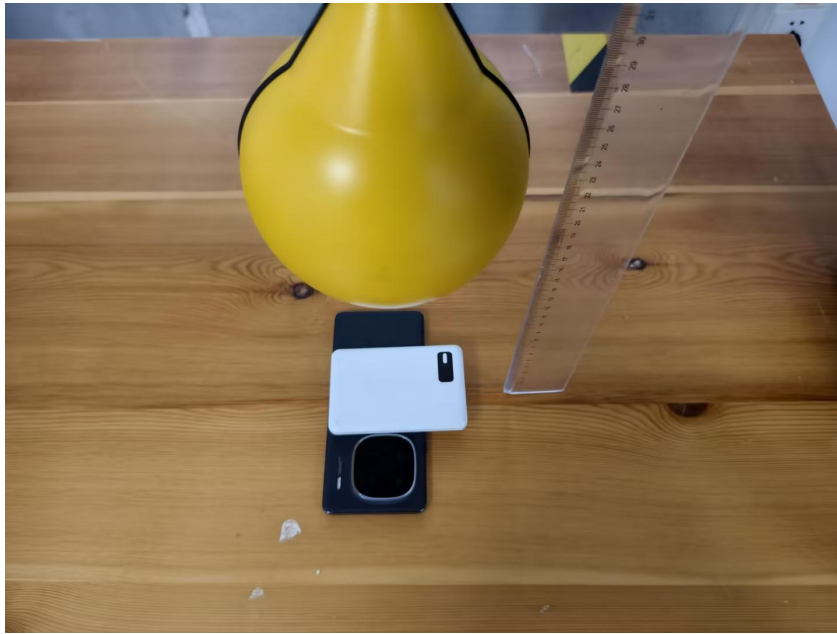
8cm

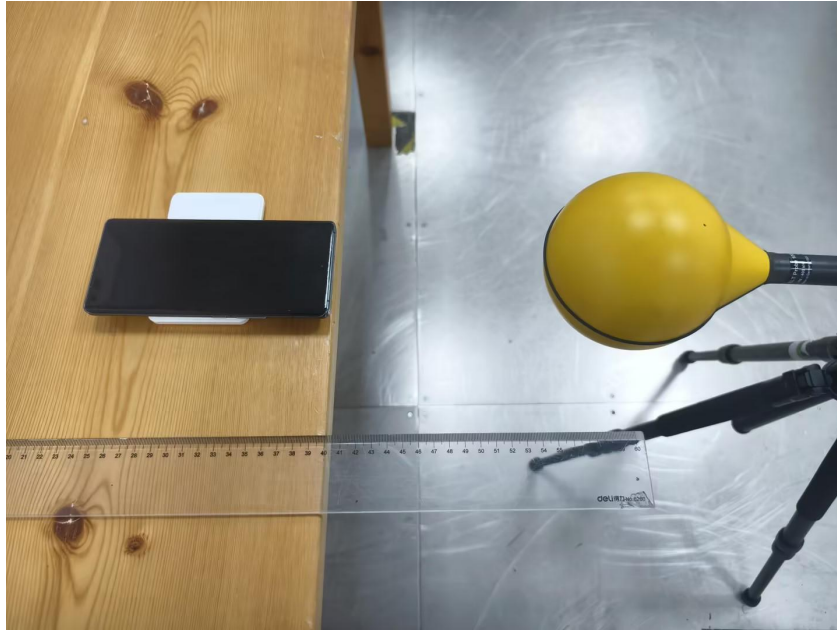


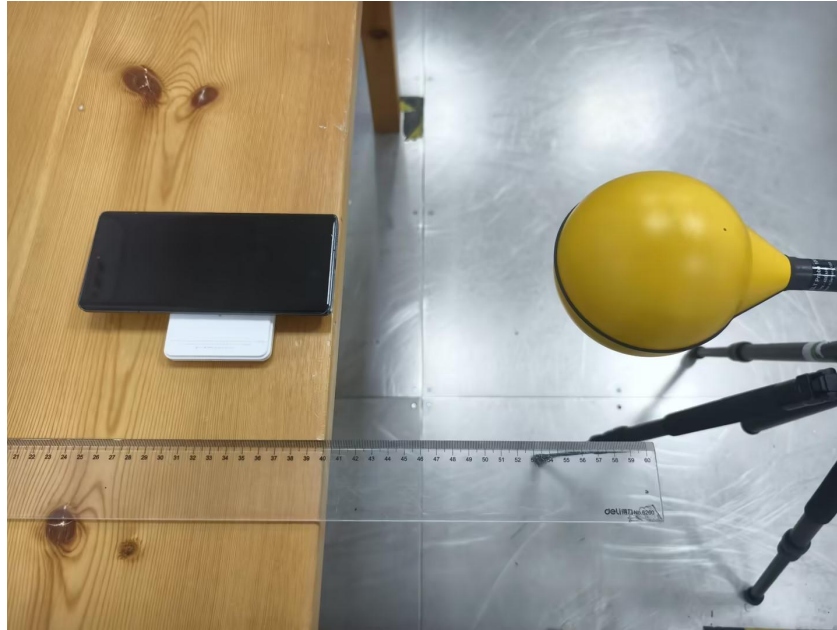




20cm







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