



Test Report

FCC ID: 2BN9F-W5

Applicant: Anshishengying (Shenzhen) Technology Co., Ltd

Address: 1408, Chuanghui Building, WuheCommunity, Bantian Street, Longgang District, Shenzhen

Manufacturer: Anshishengying (Shenzhen) Technology Co., Ltd

Address: 1408, Chuanghui Building, WuheCommunity, Bantian Street, Longgang District, Shenzhen

EUT: W5 Portable Charger

Trade Mark: N/A

Model Number: W5

Date of Receipt: Jun, 03, 2025

Test Date: Jun, 03, 2025 – Jun, 16, 2025

Date of Report: Jun, 16, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1
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This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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Test Result Certification	
Applicant:	Anshishengying (Shenzhen) Technology Co., Ltd
Address:	1408, Chuanghui Building, WuheCommunity, Bantian Street, Longgang District, Shenzhen
Manufacturer:	Anshishengying (Shenzhen) Technology Co., Ltd
Address:	1408, Chuanghui Building, WuheCommunity, Bantian Street, Longgang District, Shenzhen
Product description	
Product name:	W5 Portable Charger
Trademark:	N/A
Model name:	W5
Series Model:	N/A
Standards:	FCC CFR 47 PART 1, § 1.1310 FCC CFR 47 PART 2, § 2.1093
Test method:	KDB 680106 D01 Wireless Power Transfer v04
Date of Test	
Date of test:	Jun, 03, 2025 – Jun, 16, 2025
Test result:	Pass



1 General Description

1.1 Description of the EUT

Product Name:	W5 Portable Charger
Trade Mark:	N/A
Model No.:	W5
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Capacity: 5000mAh,19.25Wh/3.85V Type-C Input: 5V $\overline{\text{---}}$ 3A Type-C Output: 5V $\overline{\text{---}}$ 3A Lightning Input: 5V $\overline{\text{---}}$ 3A Wireless Output: 10W(Max) Total Output: 5V $\overline{\text{---}}$ 3A
Accessories:	/
RF specification:	
Operation frequency:	115-205kHz
Modulation type:	MSK
Antenna type:	Coil

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	Wireless Output(10W)
Mode2	Charging+Wireless Output(10W)
Mode3	Standby
Note: All of the listed test mode were tested, only the data of the worst mode (Mode1) is recorded in the report	



1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
XIAOMI Laptop Portable adapter(65W)	AD65G	/	XIAOMI
Mobile phone (Provide by test lab)	Galaxy S21 5G	/	SAMSUNG

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurement (9kHz~30MHz)	$\pm 7.8\%$
Electric field measurements (9kHz~30MHz)	$\pm 7.8\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen DL Testing Technology Co., Ltd.
Test site location:	101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
FCC Test Firm Registration Number:	854456
Designation Number:	CN1307
IC Registered No.:	27485
CAB ID.:	CN0118



4 List of test equipment

Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	June. 24, 2025	June. 25, 2026



5 Test result

5.1 Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
1500-100000			5	<6
(ii) 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
1500-100000			1.0	<30

f = frequency in MHz

* = Plane-wave equivalent power density

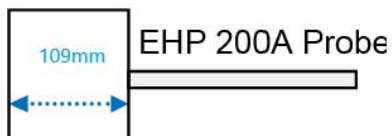
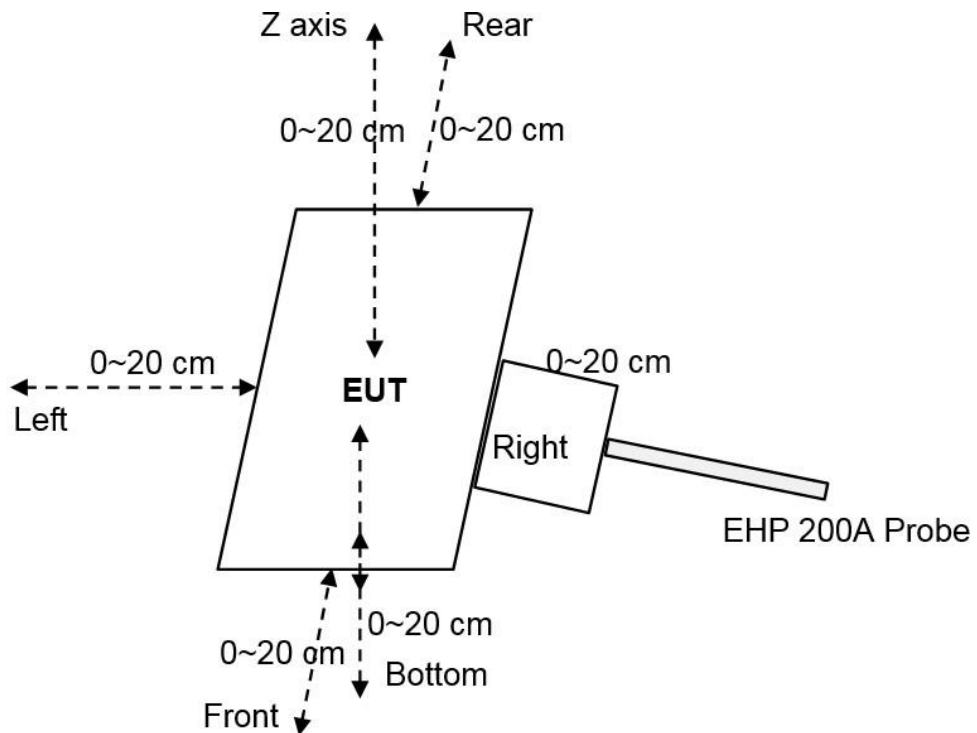
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



5.2 Test setup

For portable exposure conditions:



Notes: The EHP 200A Probe has a diameter of 10.9cm and a radius of 5.45cm.



5.3 Test Procedures

For portable exposure conditions:

- a. The RF exposure test was performed in anechoic chamber.
- b. Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm
- c. The highest emission level was recorded and compared with limit.

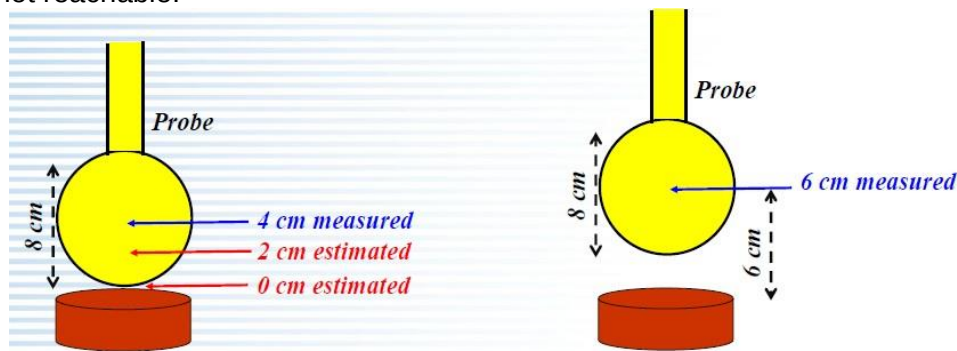
Notes: The EUT was setted to transmit continuously with the duty cycle of 100%.



5.4 Test results

For portable exposure condition: Note:

- (1). The portable test modes have covered the considerations of the mobile test, only record the test data of the portable conditions in this report.
- (2) Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.
- (3) 20-2cm is the actual test value, and 0 cm is the estimated value.
- (4) Perform H-field/E-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.



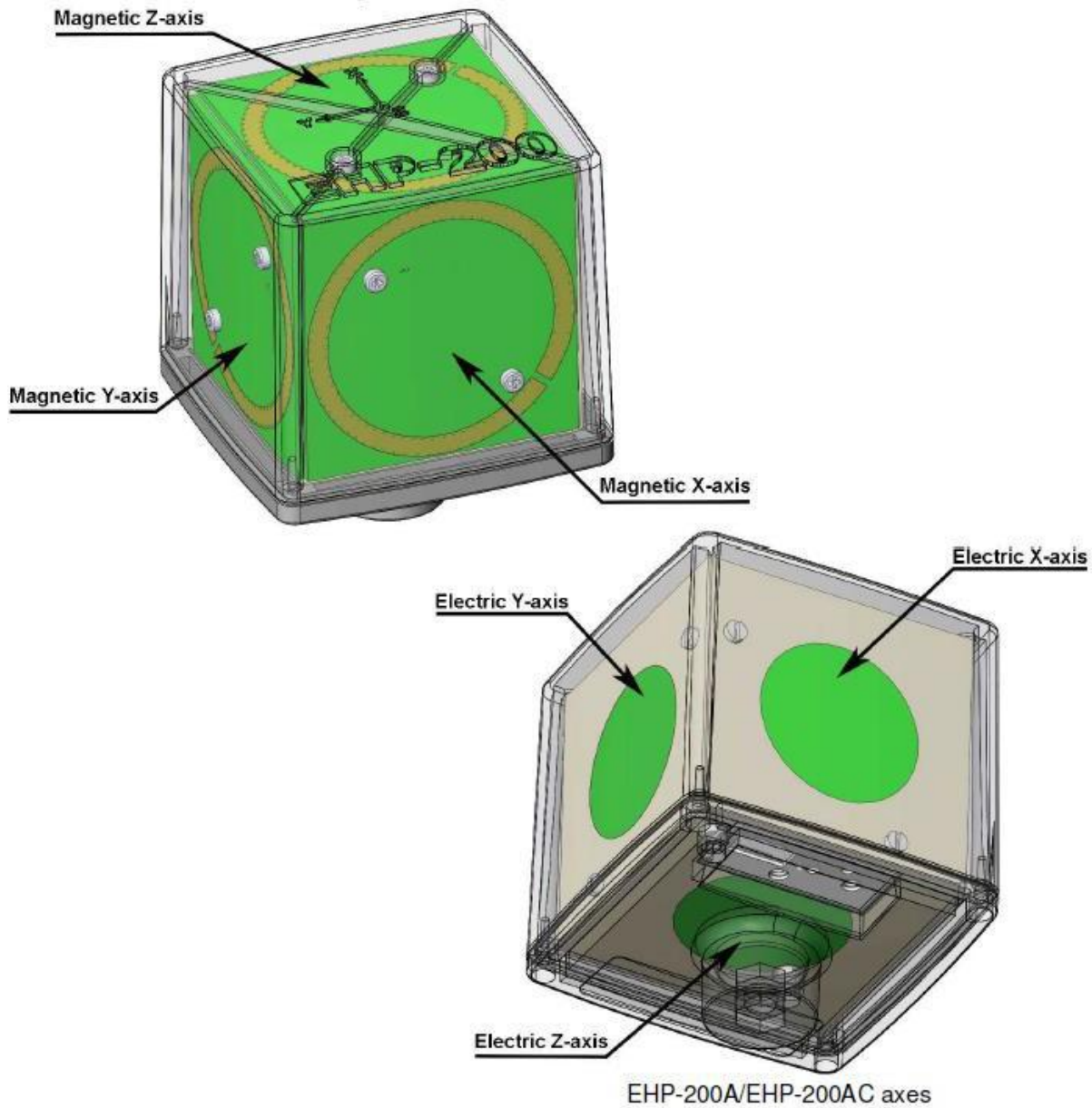
*Example of probe measurements in points close to the device surface:
estimates compared with measurements at 4 and 6 cm provide validation*

According to Calibration information and specification about EHP-200A, The Probe EHP-200A's sensitive elements center are 8mm below the external surface, and the dimensions is 92x92x109mm. so the actual 0cm field strengths need to be estimated for the positions that are not reachable. The Extrapolated Value Calculation Method please below). And the result of test distance 2cm~20cm was measured value.

Probe	Length	Width	Height
	109mm	92mm	92mm



Note: EUT is a loop/coil emitting structure, so E-field not required. Just recorded the H-field value.

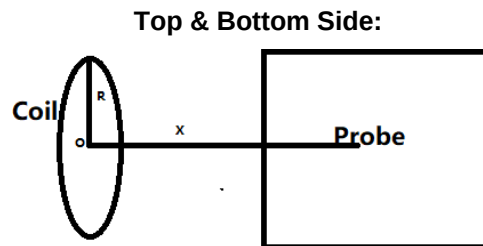


The sensitive elements are located approximately 8 mm below the external surface

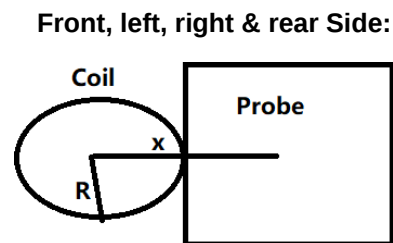


(5) Estimated method for portable RF Exposure condition:

We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:



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



$$B = \frac{\mu_0 * I * N}{2 * x}$$

B: means H-field value;

μ_0 is space permeability; $\mu_0=4\pi*10^{-7}$;

I: A current element passing through a coil;

R: means the Radius of coil(According to provided Antenna specification: We can get the minimum $R=38/2=19\text{mm}=0.019\text{m}$);

Test Distance: The distance from the sensing element of the probe to the edge of the device surface.

x: means the center of the coil to the sensing elements of the probe. (For top & bottom side: $x=\text{test distance}$; For other side: $x=\text{test distance}+R$)

N: Number of turns, according to providing "Antenna specification" files: $N=10$.

(6) For validation purposes: If the value to show a **30% agreement** between the mode and the (E- and/or H-field) probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

Note: The percent ratio of agreement is the difference between the estimated and measured values divided by the average of the estimated and measured values.

**Validation:**

Magnetic Field Emissions							
Test Distance(cm)	Top	Left	Right	Rear	Front	Bottom	Conclusion
	Unit: Agreement (%); H-field (A/m)						
Agreement -2cm	13.51	21.56	26.23	22.46	13.66	12.53	Compliance (Within 30%)
2cm(estimated)	0.3252	0.1552	0.1152	0.1221	0.1452	0.3245	
2cm(measured)	0.3241	0.1121	0.1324	0.1252	0.1221	0.2452	

Magnetic Field Emissions							
Test Distance(cm)	Top	Left	Right	Rear	Front	Bottom	Conclusion
	Unit: Agreement (%); H-field (A/m)						
Agreement -2cm	12.31	15.45	22.45	12.84	23.65	22.53	Compliance (Within 30%)
4cm(estimated)	0.1225	0.0221	0.0221	0.0242	0.0241	0.1215	
4cm(measured)	0.1336	0.0356	0.0363	0.0353	0.0265	0.0274	



Test condition 1: Mode1 operating mode with client device (1 % battery status of client device)
-estimated value: 0cm

Estimated value for H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	1.0242	1.63	73.11%
	Left	1.0336		
	Right	1.155		
	Front	1.0215		
	Rear	0.9266		
	Bottom	0.5244		

Test condition 2: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance: 2cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.3415	1.63	21.48%
	Left	0.1266		
	Right	0.1345		
	Front	0.1255		
	Rear	0.1364		
	Bottom	0.2411		



Test condition 3: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 4cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.1366	1.63	6.81%
	Left	0.0155		
	Right	0.0316		
	Front	0.0364		
	Rear	0.0252		
	Bottom	0.0233		

Test condition 4: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 6cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0245	1.63	6.27%
	Left	0.0362		
	Right	0.0245		
	Front	0.0364		
	Rear	0.0263		
	Bottom	0.0362		

Test condition 5: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 8cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0243	1.63	5.76%
	Left	0.0365		
	Right	0.0246		
	Front	0.0251		
	Rear	0.0273		
	Bottom	0.0364		



Test condition 6: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 10cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0241	1.63	5.17%
	Left	0.0263		
	Right	0.0345		
	Front	0.0362		
	Rear	0.0412		
	Bottom	0.0366		

Test condition 7: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 12cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0245	1.63	4.74%
	Left	0.0291		
	Right	0.0143		
	Front	0.0215		
	Rear	0.0266		
	Bottom	0.0144		

Test condition 8: Mode1 operating mode with client device (1 % battery status of client device)
- Test distance 14cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0142	1.63	4.50%
	Left	0.0266		
	Right	0.0125		
	Front	0.0414		
	Rear	0.0231		
	Bottom	0.0413		

**Test condition 9: Mode1 operating mode with client device (1 % battery status of client device)****- Test distance 16cm**

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0232	1.63	4.11%
	Left	0.0416		
	Right	0.0241		
	Front	0.0366		
	Rear	0.0145		
	Bottom	0.0522		

Test condition 10: Mode1 operating mode with client device (1 % battery status of client device)**- Test distance 18cm**

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0216	1.63	4.07%
	Left	0.0365		
	Right	0.0522		
	Front	0.0254		
	Rear	0.0416		
	Bottom	0.0415		

Test condition 11: Mode1 operating mode with client device (1 % battery status of client device)**- Test distance 20cm**

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0366	1.63	3.83%
	Left	0.0255		
	Right	0.0232		
	Front	0.0413		
	Rear	0.0254		
	Bottom	0.0216		



Photographs of the Test Setup

Portable exposure conditions(0cm)

Front



Left



Right



Rear



Top



Below





Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----