



# FCC Test Report

Report No: FCS202506184W02

## Issued for

Applicant:	Shenzhen Zhonggu Technology Co., LTD
Address:	3rd Floor, Building B, Shunchengji Dongfang Incubation Park, Qingcui Road, Qinghu Community, Longhua District, Shenzhen City
Product Name:	5 in 1 Wireless Charger
Brand Name:	N/A
Model Name:	Z1
Series Model:	N/A
FCC ID:	2BQFT-Z1
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 <a href="http://www.fcs-lab.com">http://www.fcs-lab.com</a>	

## TEST RESULT CERTIFICATION

Applicant's Name .....: Shenzhen Zhonggu Technology Co., LTD  
Address.....: 3rd Floor, Building B, Shunchengji Dongfang Incubation Park, Qingcui Road, Qinghu Community, Longhua District, Shenzhen City  
Manufacture's Name .....: Shenzhen Zhonggu Technology Co., LTD  
Address.....: 3rd Floor, Building B, Shunchengji Dongfang Incubation Park, Qingcui Road, Qinghu Community, Longhua District, Shenzhen City

### Product Description

Product Name .....: 5 in 1 Wireless Charger  
Brand Name .....: N/A  
Model Name .....: Z1  
Series Model.....: N/A  
Test Standards.....: FCC CFR 47 PART 1, § 1.1310  
KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....:

Date (s) of performance of tests : June. 12, 2025 ~ June. 19, 2025

Date of Issue .....: June. 19, 2025

Test Result .....: Pass

Tested by :   
(Scott Shen)

Reviewed by :   
(Duke Qian)

Approved by :   
(Jack Wang)



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### Revision History

Rev.	Issue Date	Effect Page	Contents
00	June. 19, 2025	ALL	Initial Issue

## 1. TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
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Telephone:	+86-769-27280901
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<p>FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 CNAS: L15566</p>	

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	5 in 1 Wireless Charger
Trade Name	N/A
Model Name	Z1
Series Model	N/A
Model Difference	N/A
Operation frequency	Phone: 113kHz-205kHz Earphone: 113kHz-205kHz Watch: 113kHz-205kHz
Modulation Technology	ASK
Antenna Type	Loop coil antenna
Antenna gain	0dBi
Power Supply	Input: DC9V-3A Output (Phone): 15W/10W/7.5W Output (Watch): 5W Output (Earbuds): 2.5W Type-C output: 10W Output for phone: 15W Max
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

### 3 TEST METHODOLOGY

#### 3.1 Measuring Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: KDB 680106 D01 Wireless Power Transfer v04.

#### 3.2 Requirements

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 20 cm away from the all surface.

#### 3.1

#### Limits

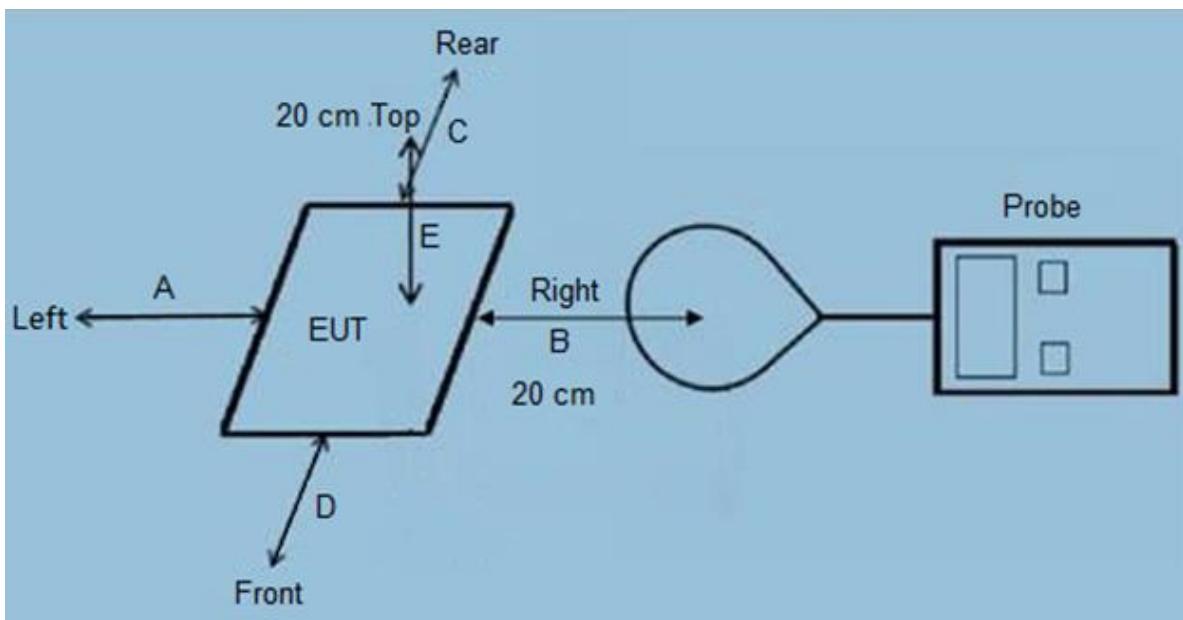
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

##### Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz  
\*=Plane-wave equivalent power density  
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

### 3.2 Test Setup



### 3.3 Test Procedure

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

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

## 4 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 v04 follow table.

Requirements of section 5 of KDB 680106 D01	Yes / No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 113kHz-205kHz
RF Exposure compliance may be ensured only for a minimum separation distance that is greater than 20 cm, while use conditions at smaller distances can still be considered unlikely.	Yes	The EUT H-field strengths at 20 cm to all side

#### 4.1 Description of the test mode

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

Test Mode	Description	
Mode 1	AC Adapter + EUT + phone (15W) + watch (2.5W) + earbuds (5W)	Record
Mode 2	AC Adapter + EUT + phone (15W) + watch (2.5W)	Pre-tested
Mode 3	AC Adapter + EUT + phone (15W) + earbuds (5W)	Pre-tested
Mode 4	AC Adapter + EUT + watch (2.5W) + earbuds (5W)	Pre-tested
Mode 5	AC Adapter + EUT + phone (15W)	Pre-tested
Mode 6	AC Adapter + EUT + phone (10W)	Pre-tested
Mode 7	AC Adapter + EUT + phone (7.5W)	Pre-tested
Mode 8	AC Adapter + EUT + watch (2.5W)	Pre-tested
Mode 9	AC Adapter + EUT + earbuds (5W)	Pre-tested
Mode 10	Test the EUT in idle mode.	Pre-tested

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

#### 4.2 Peripheral List

No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Phone	OSCAL	PILOT2	N/A	N/A	N/A
2	Watch	OSCAL	W7	N/A	N/A	N/A
3	earbuds	OSCAL	E03	N/A	N/A	N/A
4	Adapter	HNT	HNT-QC530	N/A	N/A	N/A

#### 4.3 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX10 505	20.06.2024	21.06.2025

#### 4.4 Test Result

##### Coil 1\_Phone\_15W

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 1%	Top	10.16	0.52
20cm	< 1%	Left	10.10	0.61
20cm	< 1%	Right	10.01	0.52
20cm	< 1%	Front	10.31	0.48
20cm	< 1%	Rear	10.10	0.45
Limit			614	1.63
Margin Limit (%)			1.68%	37.52%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 50%	Top	9.52	0.49
20cm	< 50%	Left	8.67	0.48
20cm	< 50%	Right	8.96	0.48
20cm	< 50%	Front	8.53	0.51
20cm	< 50%	Rear	8.73	0.49
Limit			614	1.63
Margin Limit (%)			1.55%	30.99%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 99%	Top	8.88	0.40
20cm	< 99%	Left	8.43	0.39
20cm	< 99%	Right	8.31	0.42
20cm	< 99%	Front	8.15	0.42
20cm	< 99%	Rear	8.59	0.32
Limit			614	1.63
Margin Limit (%)			1.45%	25.73%

## Coil 2\_Watch

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 1%	Top	13.28	0.31
20cm	< 1%	Left	13.62	0.37
20cm	< 1%	Right	13.38	0.34
20cm	< 1%	Front	12.98	0.19
20cm	< 1%	Rear	13.19	0.39
Limit			614	1.63
Margin Limit (%)			2.22%	23.94%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 50%	Top	12.67	0.24
20cm	< 50%	Left	11.75	0.20
20cm	< 50%	Right	12.33	0.23
20cm	< 50%	Front	12.20	0.24
20cm	< 50%	Rear	12.15	0.42
Limit			614	1.63
Margin Limit (%)			2.06%	26.07%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 99%	Top	12.18	0.11
20cm	< 99%	Left	11.72	0.15
20cm	< 99%	Right	11.68	0.16
20cm	< 99%	Front	11.67	0.11
20cm	< 99%	Rear	11.48	0.19
Limit			614	1.63
Margin Limit (%)			1.98%	11.72%

### Coil 3\_Earbuds

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 1%	Top	13.28	0.26
20cm	< 1%	Left	13.11	0.25
20cm	< 1%	Right	13.57	0.23
20cm	< 1%	Front	13.32	0.22
20cm	< 1%	Rear	13.05	0.26
Limit			614	1.63
Margin Limit (%)			2.21%	16.19%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 50%	Top	12.55	0.10
20cm	< 50%	Left	11.92	0.20
20cm	< 50%	Right	11.91	0.12
20cm	< 50%	Front	12.09	0.12
20cm	< 50%	Rear	12.02	0.03
Limit			614	1.63
Margin Limit (%)			2.04%	12.08%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 99%	Top	11.87	0.03
20cm	< 99%	Left	11.65	0.10
20cm	< 99%	Right	11.05	0.10
20cm	< 99%	Front	11.40	0.06
20cm	< 99%	Rear	11.31	0.07
Limit			614	1.63
Margin Limit (%)			1.93%	5.87%

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

## Total exposure

**Mode 1\_AC Adapter + EUT + phone (15W) + watch (2.5W) + earbuds (5W)**

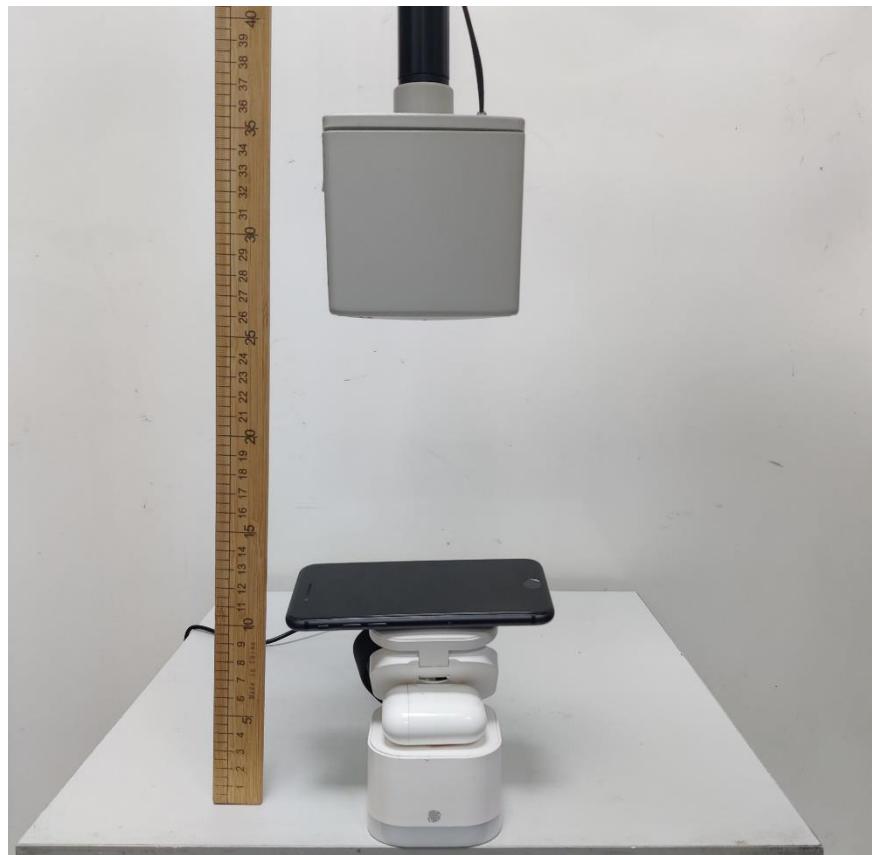
MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 1%	Top	14.16	0.72
20cm	< 1%	Left	14.00	0.60
20cm	< 1%	Right	14.15	0.71
20cm	< 1%	Front	14.40	0.56
20cm	< 1%	Rear	13.82	0.70
Limit			614	1.63
Margin Limit (%)			2.34%	44.17%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 50%	Top	13.42	0.76
20cm	< 50%	Left	13.03	0.76
20cm	< 50%	Right	12.79	0.77
20cm	< 50%	Front	12.56	0.66
20cm	< 50%	Rear	12.80	0.70
Limit			614	1.63
Margin Limit (%)			2.19%	47.42%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	< 99%	Top	12.99	0.68
20cm	< 99%	Left	12.30	0.69
20cm	< 99%	Right	12.92	0.73
20cm	< 99%	Front	12.80	0.62
20cm	< 99%	Rear	12.60	0.68
Limit			614	1.63
Margin Limit (%)			2.12%	44.79%

#### 4.5 Test Setup photo

Top – 20cm



\*\*\*End of report\*\*\*