FCC Test Report

Report No: FCS202409213W02

Issued for

Applicant:	Shenzhen Sanyou Technology Co., LTD
Address:	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China
Product Name:	Wireless Charger
Brand Name:	N/A
Model Name:	WI01
Series Model:	WIXX(X stands for 0-9)
FCC ID:	2BKZ2-WI01

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 http://www.fcs-lab.com

TEST RESULT CERTIFICATION

Applicant's Name ..... :	Shenzhen Sanyou Technology Co., LTD
Address..... :	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China
Manufacture's Name ..... :	Shenzhen Sanyou Technology Co., LTD
Address..... :	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China

Product Description

Product Name ..... :	Wireless Charger
Brand Name ..... :	N/A
Model Name ..... :	WI01
Series Model..... :	WIXX(X stands for 0-9)
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 :	07 Sep., 2024 ~ 13 Sep., 2024
Date of Issue ..... :	13 Sep., 2024
Test Result ..... :	Pass

Tested by : Scott shen
(Scott Shen)

Reviewed by : Duke Qian
(Duke Qian)

Approved by : Jack Wang
(Jack Wang)

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Revision History

Rev.	Issue Date	Effect Page	Contents
00	13 Sep., 2024	ALL	Initial Issue

1. TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number：5545.01 CNAS: L15566	

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Charger
Trade Name	N/A
Model Name	WI01
Series Model	WIXX(X stands for 0-9)
Model Difference	Only different of model name.
Operation frequency	113kHz-205kHz
Modulation Technology	ASK
Antenna Type	Loop coil antenna
Antenna gain	0dBi
Power Supply	Input: DC12V-2A, 9V-2A, 5V-2A Output: 15W/10W/7.5W/5W
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 or beyond 15 cm surrounding the device, and 20 cm away from the top surface.

3.1 Limits

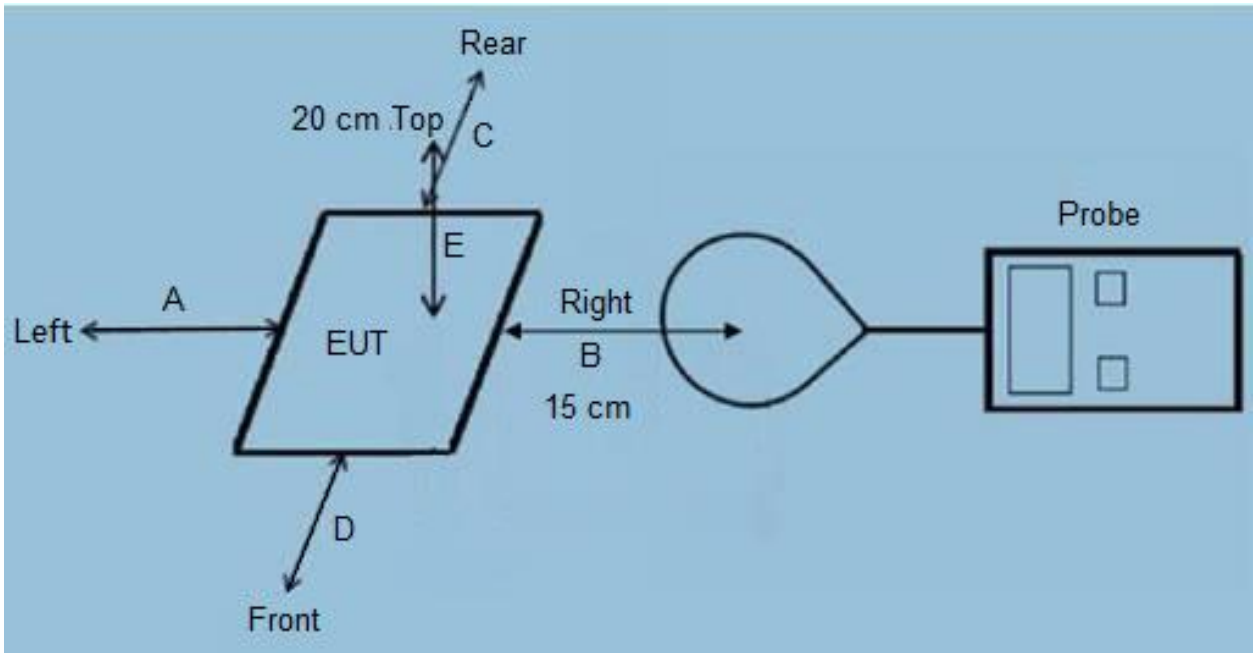
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^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

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 (15 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E,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 as 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 15 cm surrounding the device and 20 cm above the top surface.

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)	Record
Mode 2	AC Adapter + EUT + phone (10W)	Pre-tested
Mode 3	AC Adapter + EUT + phone (7.5W)	Pre-tested
Mode 4	AC Adapter + EUT + phone (5W)	Pre-tested
Mode 5	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

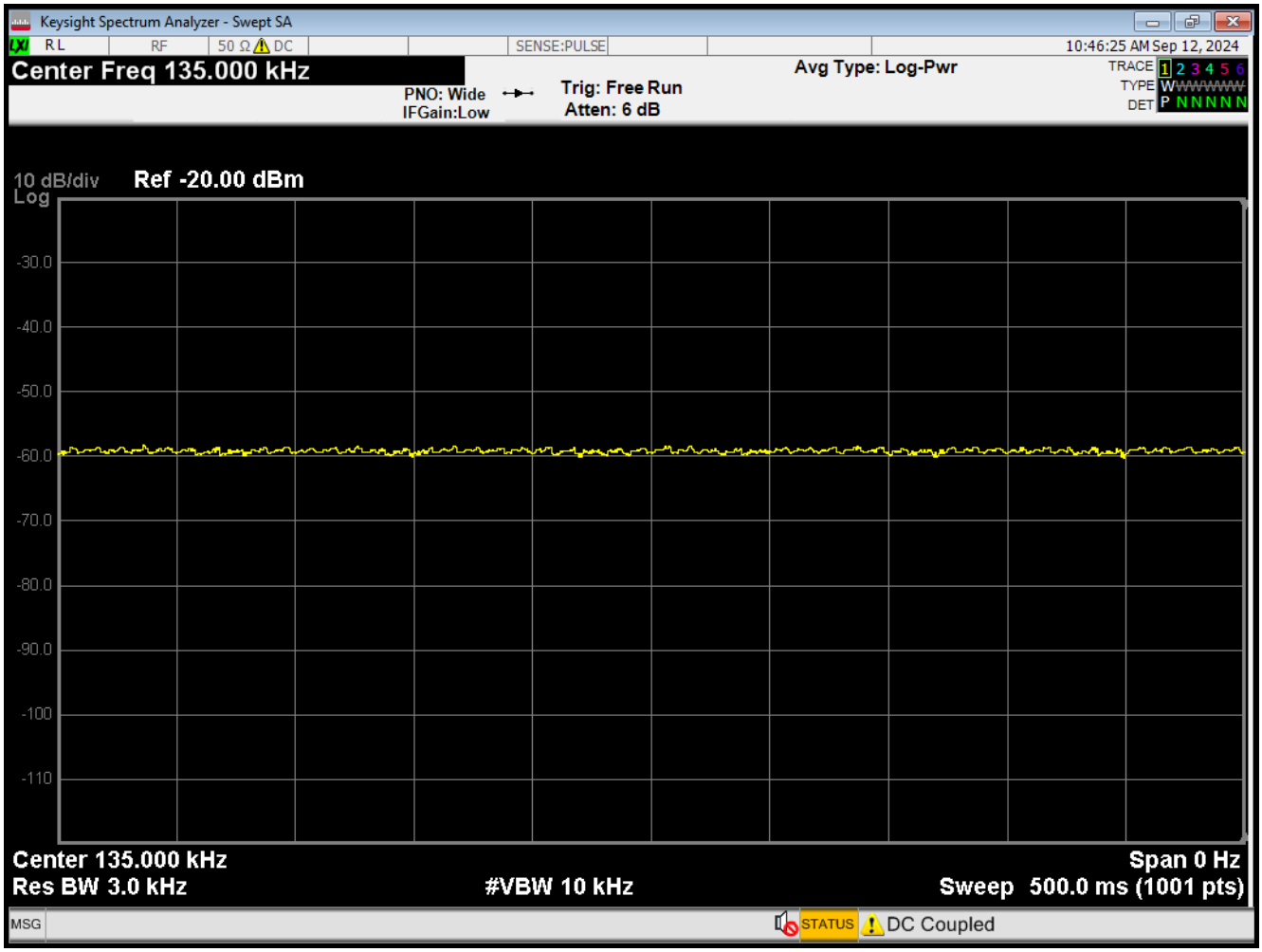
No.	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable
1	Phone	OSCAL	PILOT2	N/A	N/A	N/A
2	Adapter	HNT	HNT-QC530	N/A	N/A	N/A

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	180ZX10505	20.06.2024	21.06.2025

4.4 Duty Cycle

Mode	ON Time(ms)	Period(ms)	Duty Cycle(%)
Operating(135kHz)	/	/	100



4.5 Test Result

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 1%	Top	5.41	0.37
15cm	＜ 1%	Left	5.30	0.36
15cm	＜ 1%	Right	5.80	0.29
15cm	＜ 1%	Front	5.69	0.37
15cm	＜ 1%	Rear	5.78	0.39
Limit			614	1.63
Margin Limit (%)			0.94%	23.93%

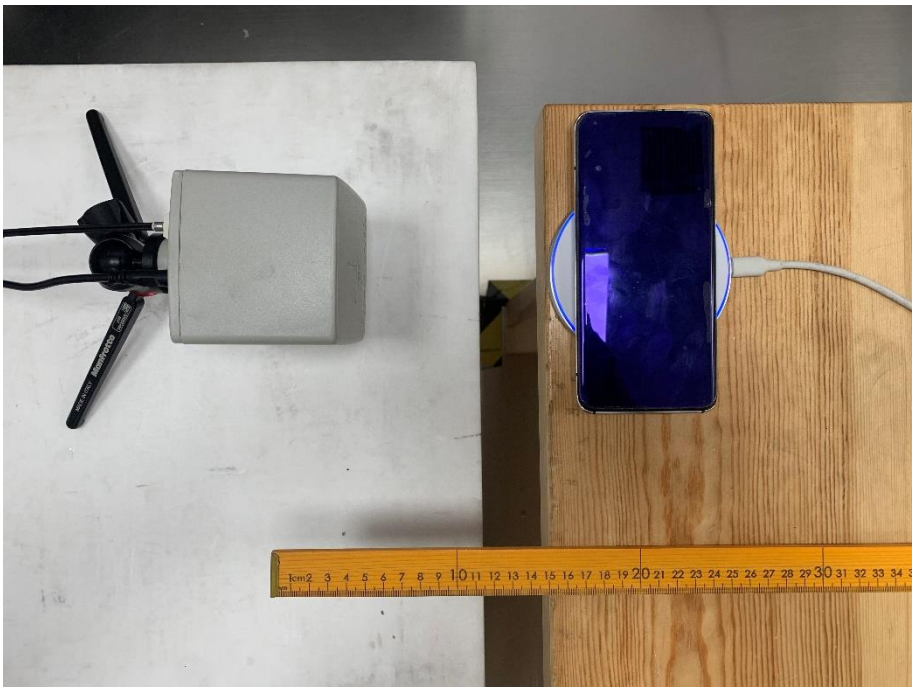
MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 50%	Top	4.63	0.28
15cm	＜ 50%	Left	3.83	0.30
15cm	＜ 50%	Right	4.02	0.31
15cm	＜ 50%	Front	3.98	0.34
15cm	＜ 50%	Rear	4.04	0.19
Limit			614	1.63
Margin Limit (%)			0.75%	20.86%

MPE				
Test distance	Battery levels	Probe from EUT Side	E-field (V/m)	H-field (A/m)
20cm	＜ 99%	Top	4.55	0.35
15cm	＜ 99%	Left	3.91	0.33
15cm	＜ 99%	Right	4.13	0.31
15cm	＜ 99%	Front	3.82	0.27
15cm	＜ 99%	Rear	3.83	0.32
Limit			614	1.63
Margin Limit (%)			0.74%	21.47%

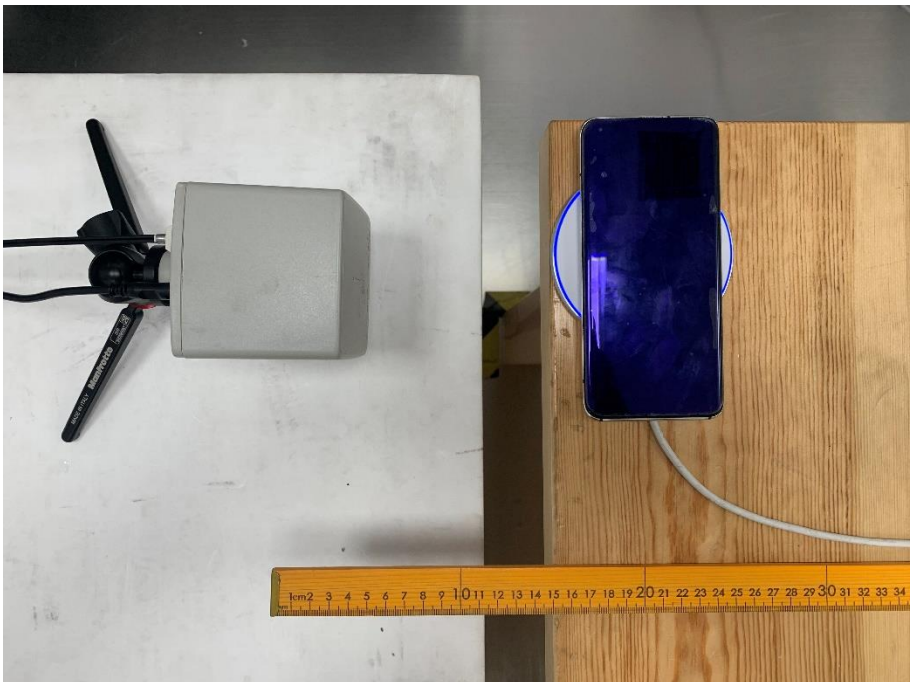
Note: All test modes were pre-tested, but we only recorded the worst case in this report.

4.6 Test Setup photo

Front

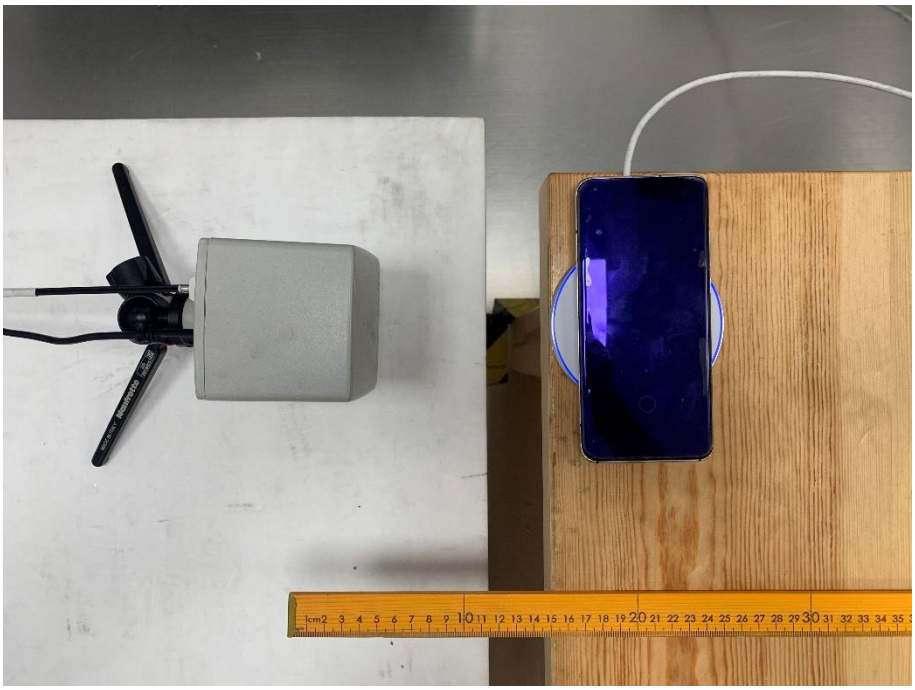


Left

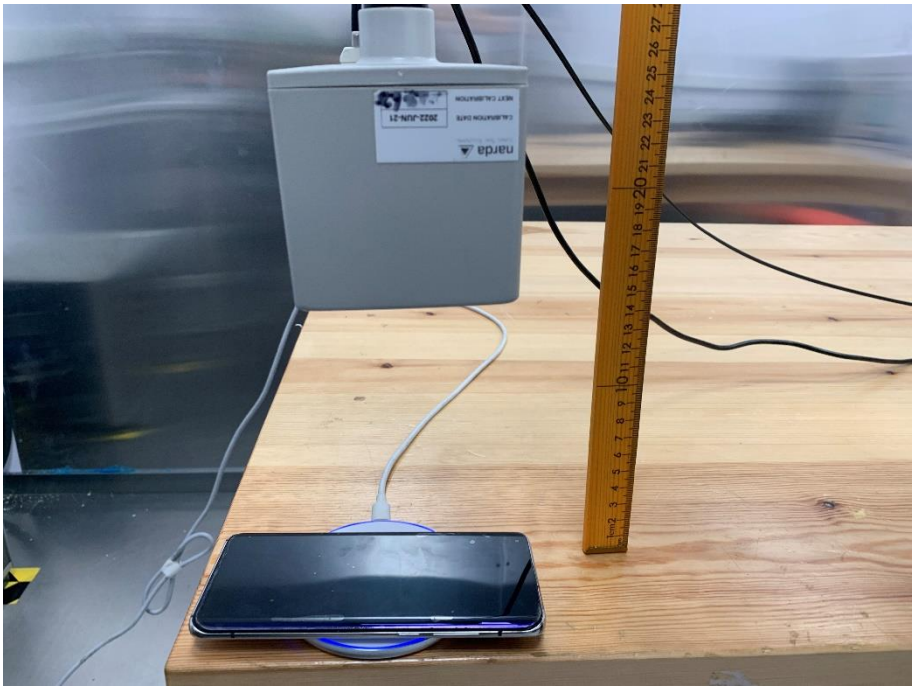


Rear

Right



Top



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