

FCC TEST REPORT

FCC ID: 2BTRD-IW31

On Behalf of

Shenguang Jiyuan Intelligent Manufacturing (Shenzhen) Technology Co., Ltd.

3-in-1 25W Magsafe Wireless Charger

Model No.: iw31

Prepared for : Shenguang Jiyuan Intelligent Manufacturing (Shenzhen) Technology Co., Ltd.
Address : 302, A Bldg, RunFeng industry Park, 4197 Baoan Road, Gushu, Xixiang, Baoan, Shenzhen, Guangdong, China

Prepared By : Shenzhen PSI Testing Co., Ltd.
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TEST REPORT DECLARATION

Applicant : Shenguang Jiyuan Intelligent Manufacturing (Shenzhen) Technology Co., Ltd.
Address : 302, A Bldg, RunFeng industry Park, 4197 Baoan Road, Gushu, Xixiang, Baoan, Shenzhen, Guangdong, China
Manufacturer : Shenguang Jiyuan Intelligent Manufacturing (Shenzhen) Technology Co., Ltd.
Address : 302, A Bldg, RunFeng industry Park, 4197 Baoan Road, Gushu, Xixiang, Baoan, Shenzhen, Guangdong, China
EUT Description : 3-in-1 25W Magsafe Wireless Charger
(A) Model No. : iw31
(B) Trademark : N/A

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.....: Jan. 12, 2026

Revision History

Revision	Issue Date	Revisions	Revised By
V0	Jan. 12, 2026	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 : 3-in-1 25W Magsafe Wireless Charger
Model No. : iw31
Diff : /
Power supply : Input: 12 V==3 A, 15 V==3 A
Output for Mobile Phones:25W/15W/10W/7.5W/5W
Output for iWatch: 2.5W
Output for Earphones: 5W(Max)

Radio Technology : Wireless power transmission systems

Operation frequency : Phone: 115-205KHz, 360KHz
Earbuds: 115-205KHz
Watch:320-350KHz

Modulation : ASK

Antenna Type : Coil Antenna

Connector cable loss : 0dB

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.

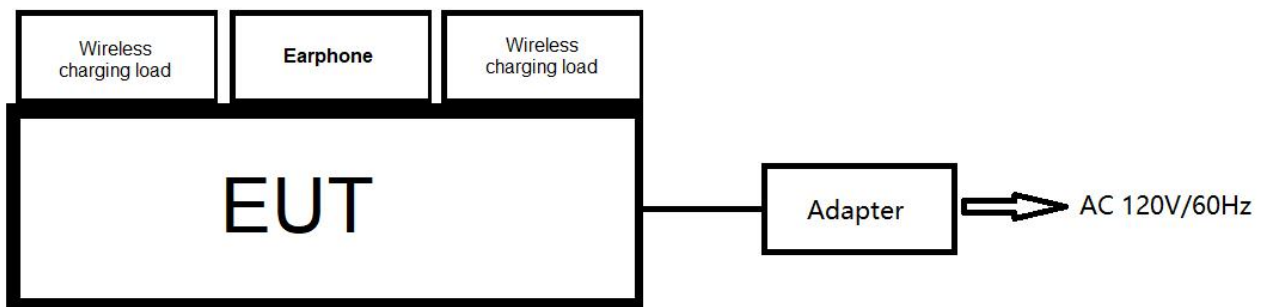
2.2. Accessories of Device (EUT)

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	Dongguan DaHong Electronics Co., Ltd.	V12060L1H0-CN	/	AE
2	Wireless charging load	/	EESON	/	AE
3	Wireless charging load	/	YBZ	/	AE
4	Earphone	Apple	A2031	/	AE

2.4. Block Diagram of connection between EUT and simulators



2.5. Description of Test Modes

Number	Modes
1	AC Mains + Phone wireless charging (25W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≤1%)
2	AC Mains + Phone wireless charging (15W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≤1%)
3	AC Mains + Phone wireless charging (10W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≤1%)
4	AC Mains + Phone wireless charging (7.5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≤1%)
5	AC Mains + Phone wireless charging (5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≤1%)
6	AC Mains + Phone wireless charging (25W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:50%)
7	AC Mains + Phone wireless charging (15W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:50%)
8	AC Mains + Phone wireless charging (10W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:50%)
9	AC Mains + Phone wireless charging (7.5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:50%)
10	AC Mains + Phone wireless charging (5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:50%)
11	AC Mains + Phone wireless charging (25W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≥98%)
12	AC Mains + Phone wireless charging (15W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≥98%)
13	AC Mains + Phone wireless charging (10W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≥98%)
14	AC Mains + Phone wireless charging (7.5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≥98%)
15	AC Mains + Phone wireless charging (5W) + Watch wireless charging (2.5W) + Earphone wireless charging (Battery Status:≥98%)
16	Standby

Note: All test modes has been tested, this report only reflected the worst mode.Mode 1 is worst case.

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

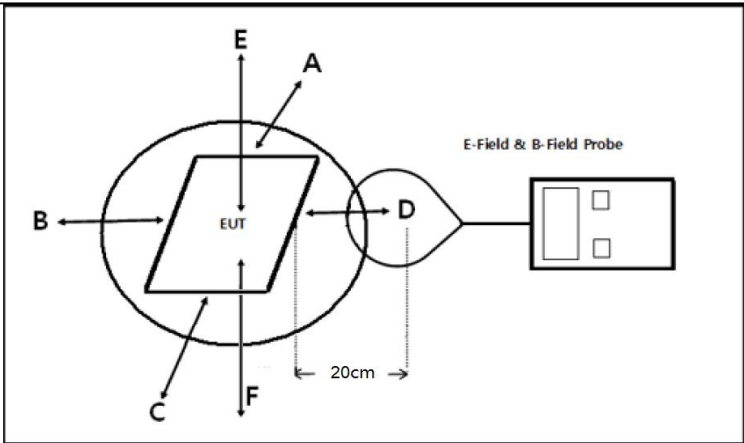
(95% confidence levels, k=2)

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:	§1.1307(b)(1) & KDB680106
Limits:	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 KDB 680106 D01 Wireless Power Transfer v04: RF Exposure Wireless Charging.
Test Setup:	 E to position is 20cm, F is the bottom of the product
Test Mode:	Transmitting Mode (Mobile phone will be charge at zero charge, intermediate charge, and full charge.)
Test Procedure:	1. The RF exposure test was carried out on a non-metallic table top 80cm high in the shielding darkroom. 2. The measurement probe was placed at test distance (20 cm for Top side) which is between the edge of the charger and the geometric centre of probe. 3. The test time is maintained for more than one minute. 4. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. 5. The EUT were measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.
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

3.1.3. Test data

For Wireless output: mode 1:

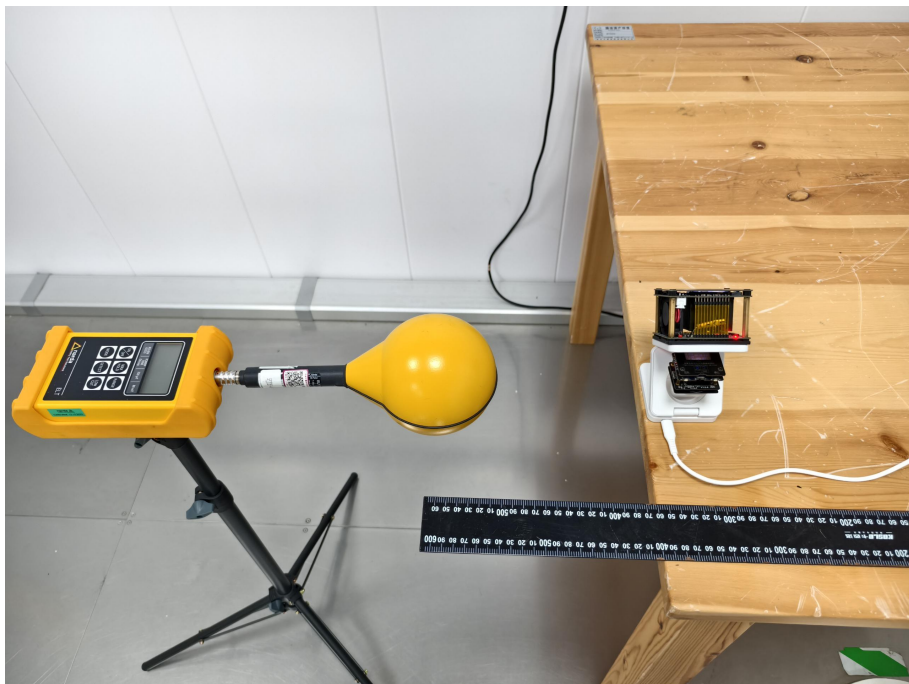
Test mode	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	50%Limits (A/m)	Limits (A/m)	test result
Mode 1	A (uT)	0.052	0.045	0.068	0.052	0.032	0.049	0.815	1.63	PASS
	(A/m)	0.042	0.036	0.054	0.042	0.026	0.039			

Note: Calculation: $A/m = uT/1.25$

Frequency Range (MHz)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	50%Limits (V/m)	Limits Test (V/m)	test result
Mode 1	(V/m)	15.834	13.572	20.358	15.834	9.802	14.703	307	614	PASS

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

4. Photos of test setup







-----END OF REPORT-----