



RF Exposure Report

For

Applicant name: Ji'an Zhongrui Electronics Co., Ltd.
Address: 4/f, building D, entrepreneurship incubator base, Ji'an National high-tech zone, Ji'an County
EUT name: Magnetic Wireless Charger(3-in-1)
Brand name: AVACON, BENFEI
Model number: 000372grey
Series model number: N/A
FCC ID: 2BKUE-000372

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Report number: BTF250707R01902
Test standards: 47 CFR Part 1 Subpart I Section 1.1310
Test conclusion: Pass
Date of sample receipt: 2025-07-07
Test date: 2025-07-08 to 2025-07-23
Date of issue: 2025-07-24
Test by: Sean He
Sean He / Tester
Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by:  Ryan.CJ / EMC manager

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-07-24	Original
Note:		Once the revision has been made, then previous versions reports are invalid.

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1. Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2. Product Information

2.1 Application Information

Company name:	Ji'an Zhongrui Electronics Co., Ltd.
Address:	4/f, building D, entrepreneurship incubator base, Ji'an National high-tech zone, Ji'an County

2.2 Manufacturer Information

Company name:	Ji'an Zhongrui Electronics Co., Ltd.
Address:	4/f, building D, entrepreneurship incubator base, Ji'an National high-tech zone, Ji'an County

2.3 Factory Information

Company name:	Ji'an Zhongrui Electronics Co., Ltd.
Address:	4/f, building D, entrepreneurship incubator base, Ji'an National high-tech zone, Ji'an County

2.4 General Description of Equipment under Test (EUT)

EUT name:	Magnetic Wireless Charger(3-in-1)
Under test model name:	000372grey
Series model name:	N/A
Description of model name differentiation:	N/A
Hardware version:	N/A
Software version:	N/A
Rating:	Input: 5V--- 3A/9V--- 3A/12V--- 2.5A/15V--- 2A Wireless Output: 23W Max Adapter: Model: C-001-US Input: 100-240~ 50/60Hz. 0.8A USB-C Output: 5V--- 3A or 9V--- 3A or 12V--- 2.5A or 15V--- 2A or 20V--- 1.5A(PPS) 3.3-11V--- 3A(33W Max) USB-A Output:5V--- 3A or 9V--- 2A or 12V--- 1.5A (18W Max) USB-A+USB-C Output:5V--- 3A(15W Max)

2.5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Iphone	Apple Inc.	Iphone13 Pro	/	/	/
Smart Watch	TOMSTAR	TG08	/	/	/
Headset	Apple Inc	airpods4	/	/	/

2.6 Test mode

Test item	Test mode	Description
)Radiated&Conducted Test cases	ANT1+ANT2+ ANT3	Mode 1: AC/DC Adapter+EUT + Iphone(Battery Status: <1%)) +Smart Watch (Battery Status: <1%)) + Headset (Battery Status: <1%))
		Mode 2: AC/DC Adapter+EUT + Iphone(Battery Status: <50%) +Smart Watch (Battery Status: <50%) + Headset (Battery Status: <50%)
		Mode 3: AC/DC Adapter+EUT + Iphone(Battery Status: <100%) +Smart Watch (Battery Status: <100%) + Headset (Battery Status: <100%)
	ANT1 Alone	Mode 1: AC/DC Adapter +EUT + Iphone(Battery Status: <1%) Mode 2: AC/DC Adapter+EUT + Iphone(Battery Status: <50%) Mode 3: AC/DC Adapter+EUT + Iphone(Battery Status: <100%)
	ANT2 Alone	Mode 1: AC/DC Adapter+ EUT + Headset (Battery Status: <1%) Mode 2: AC/DC Adapter+ EUT + Headset (Battery Status: <50%) Mode 3: AC/DC Adapter+ EUT + Headset (Battery Status: <100%)
	ANT3 Alone	Mode 1: AC/DC Adapter+ EUT + Smart Watch load-3(Battery Status: <1%) Mode 2: AC/DC Adapter+ EUT + Smart Watch (Battery Status: <50%) Mode 3: AC/DC Adapter+ EUT + Smart Watch (Battery Status: <100%)
	No Loads	Mode 2: AC/DC Adapter + EUT

Note: All modes have been tested, and only the worst case ANT1+ANT2+ANT3_Mode 1 are in the report.

3. Test Requirement

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

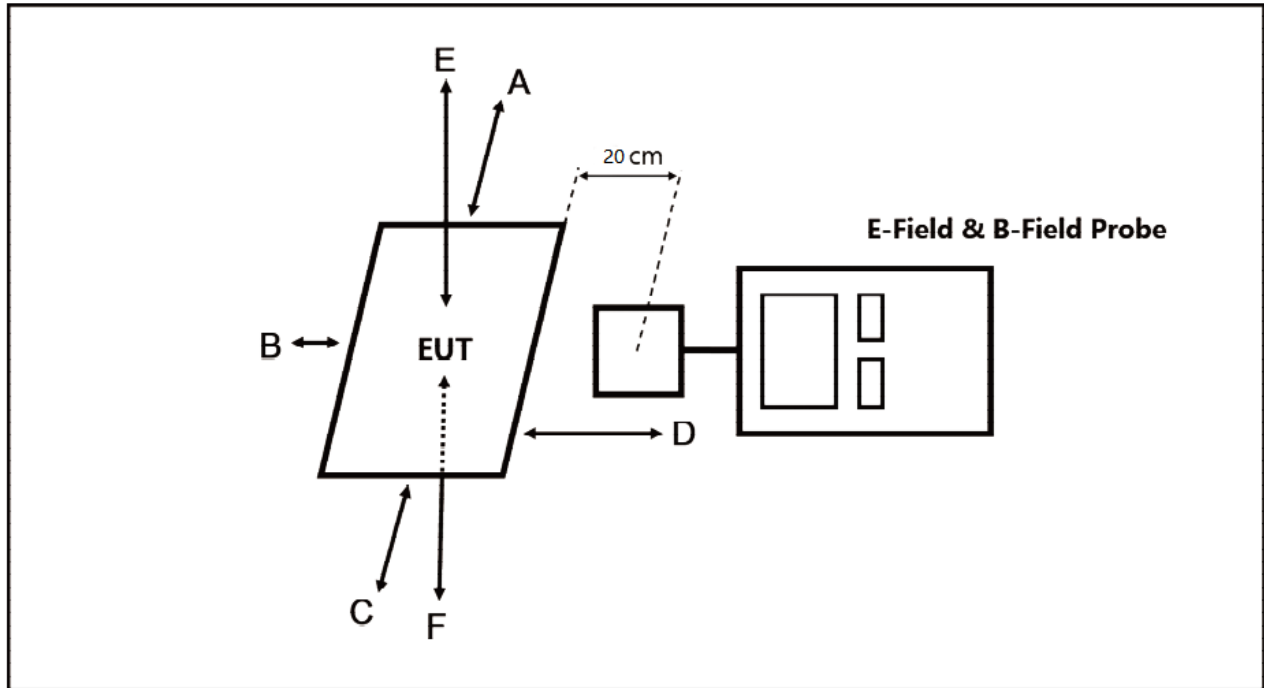
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

4. Test Equipment List

Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2024/11/16	2025/11/15

5. Test Setup



Note1: The sensitive elements are located approximately 8mm below the external surface

Note2: Measurements should be made from all sides and the top of the primary/client pair, with the 20cm measured from the center of the probe(s) to the edge of the device.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (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 points (A, B, C, D, E, F) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

6. Assessment Result

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

6.1 E-Field Strength Test Data

E-Field Strength at 20cm from the edges surrounding the EUT

Load	Measured Distance (cm)	Measured E-Field Strength Values (V/m)						FCC E-Field Strength Limits (V/m)
		Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
99%	20	0.7426	0.1570	0.3727	0.3515	0.3872	1.0571	614
50%	20	0.6386	0.1350	0.3205	0.3023	0.3330	0.9091	614
1%	20	0.5792	0.1225	0.2907	0.2742	0.3020	0.8245	614

H-Field Strength Test Data:

H-Field Strength at 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%	20	A/m	0.0801	0.0248	0.0494	0.0505	0.0332	0.0505	1.63
50%	20	A/m	0.0691	0.0214	0.0426	0.0436	0.0286	0.0436	1.63
1%	20	A/m	0.0801	0.0248	0.0494	0.0505	0.0332	0.0505	1.63

Note: $A/m = uT/1.25$

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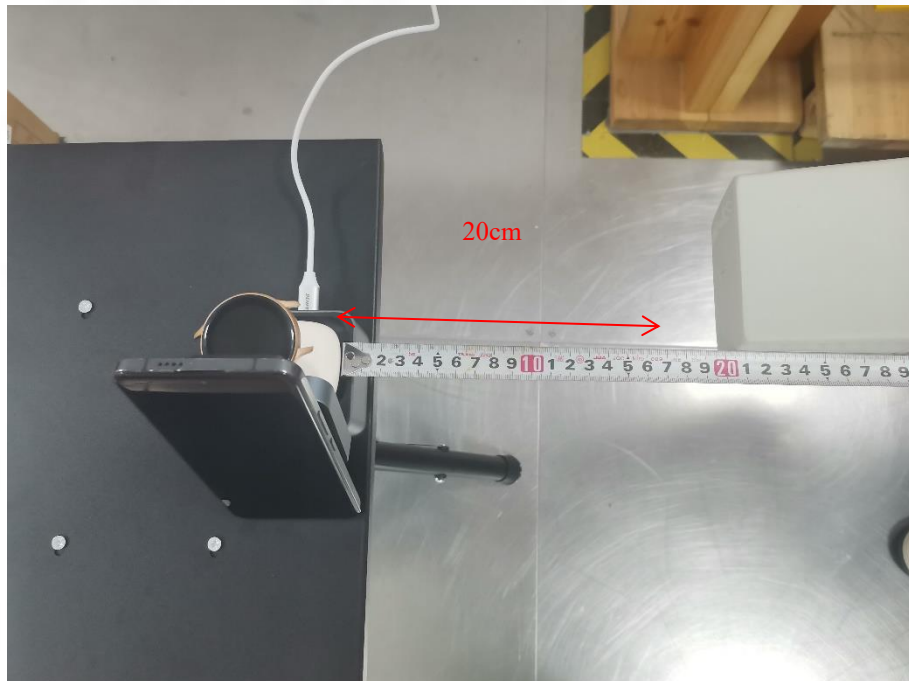
7. Conclusion

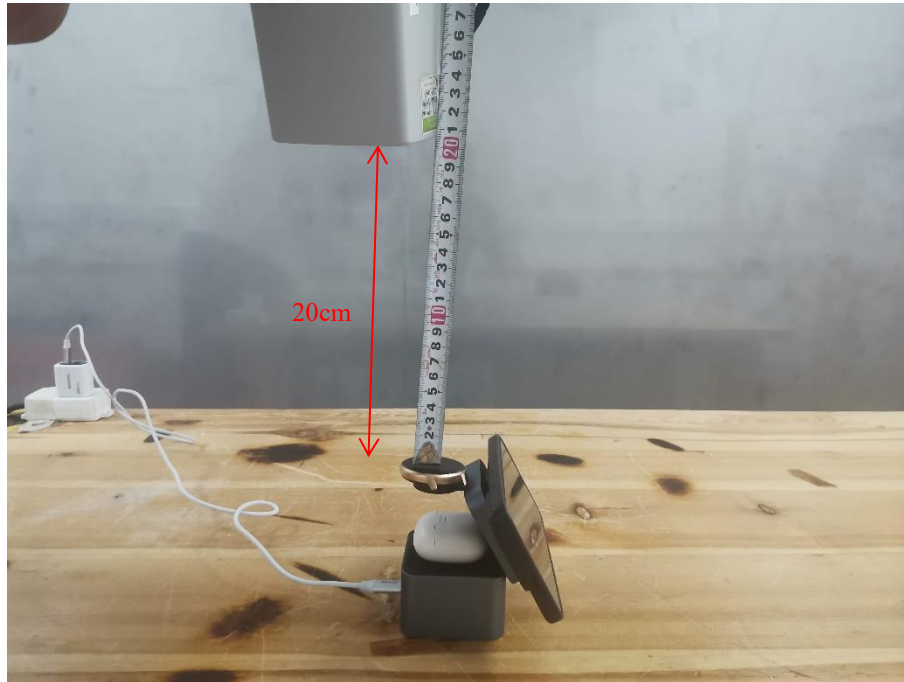
A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106.

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

The estimated test distances of 0cm are reliable

8. Test Set-up Photo







Test Report Number: BTF250707R01902



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