

RF Test Report

For

Applicant name: Shenzhen Torras Technology Co., Ltd.
Address: RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China
EUT name: Wireless charging
Brand name: TORRAS
Model number: WX9
Series model number: N/A
FCC ID: 2AN4Y-WX9

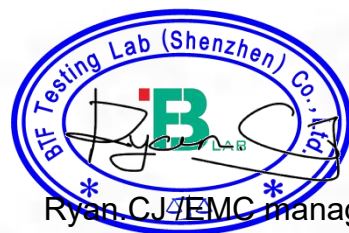
Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number: BTF251126R00202
Test standards: 47 CFR Part 1 Subpart I Section 1.1310
Test conclusion: Pass

Date of sample receipt: 2025-12-16
Test date: 2025-12-16 to 2025-12-31
Date of issue: 2026-01-06
Test by: Sean He
Sean He / Tester

Prepared by: Chris Liu
Chris Liu / Project engineer

Approved by:



Ryan.CJ EMC manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue date	Revisions content
R_V0	2026-01-06	Original

Table of Contents

1 Introduction	4
1.1 Laboratory Location	4
1.2 Laboratory Facility	4
1.3 Announcement	4
2 Product Information	5
2.1 Application Information	5
2.2 Manufacturer Information	5
2.3 Factory Information	5
2.4 General Description of Equipment under Test (EUT)	5
2.5 Technical Information	5
3 Test Equipment List	6
4 Applied Reference Documents	6
5 Test Auxiliary Equipment	6
5.1 Test mode	6
6 Test Requirement	7
7 Test Settings	8
8 Exposure Assessment	9
8.1 E-Field Strength Test Date	9
8.2 H-Field Strength Test Date:	10
9 Test Setup Photos	11

1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, 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:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.2 Manufacturer Information

Company name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.3 Factory Information

Company name:	Shenzhen Torras Technology Co., Ltd.
Address:	RM1215, BLK C, Zhantao Technology BLDG, Minzhi Avenue, Minzhi ST, Longhua DIST, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Wireless charging
Under test model name:	WX9
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Wireless Charging Output: 5W

2.5 Technical Information

Operation frequency:	300kHz ~ 400kHz, 1.69M-1.701MHzMHz (When the battery level of the watch is less than 50%, the wireless charging frequency is 1.7001 MHz. When the battery level of the watch is greater than 50%, the wireless charging frequency is 328.833 KHz.)
Modulation technology:	ASK
Antenna type:	Coil Antenna

3 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2025/11/16	2026/11/15

4 Applied Reference Documents

Identity	Document Title
47 CFR Part 1 Subpart I Section 1.1310	Radio frequency radiation exposure limits.

5 Test Auxiliary Equipment

Description	Manufacturer	Model	Serial No.	Length	Description
Description	Manufacturer	Model	Serial No.	Length	Description
USB-C Power Adapter	Apple Inc.	A2166	/	/	/
Apple Watch	Apple Inc.	A2980	/	/	/

5.1 Test mode

No.	Test Modes	
TM1	Direct contact during charging/operating between the EUT& Wireless load is powered by AC input.	When the battery level of the watch is greater than 50%, the wireless charging frequency is 328.833 KHz.
TM2	Direct contact during charging/operating between the EUT& Wireless load is powered by AC input.	When the battery level of the watch is less than 50%, the wireless charging frequency is 1.7001 MHz.
Remark:@300kHz ~ 400kHz,1.69M-1.701MHz (328.833kHz&1.7001MHz)		

6 Test Requirement

KDB 680106 D01 RF Exposure Wireless Charging App v03

According to the item 5.2 of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from

submitting an RF exposure evaluation.

a) The power transmission frequency is greater than 1MHz.

Yes, the device operate in the frequency range from 300kHz ~ 400kHz, 1.69MHz~1.71MHz.

b) Client device is placed directly in contact with the transmitter.

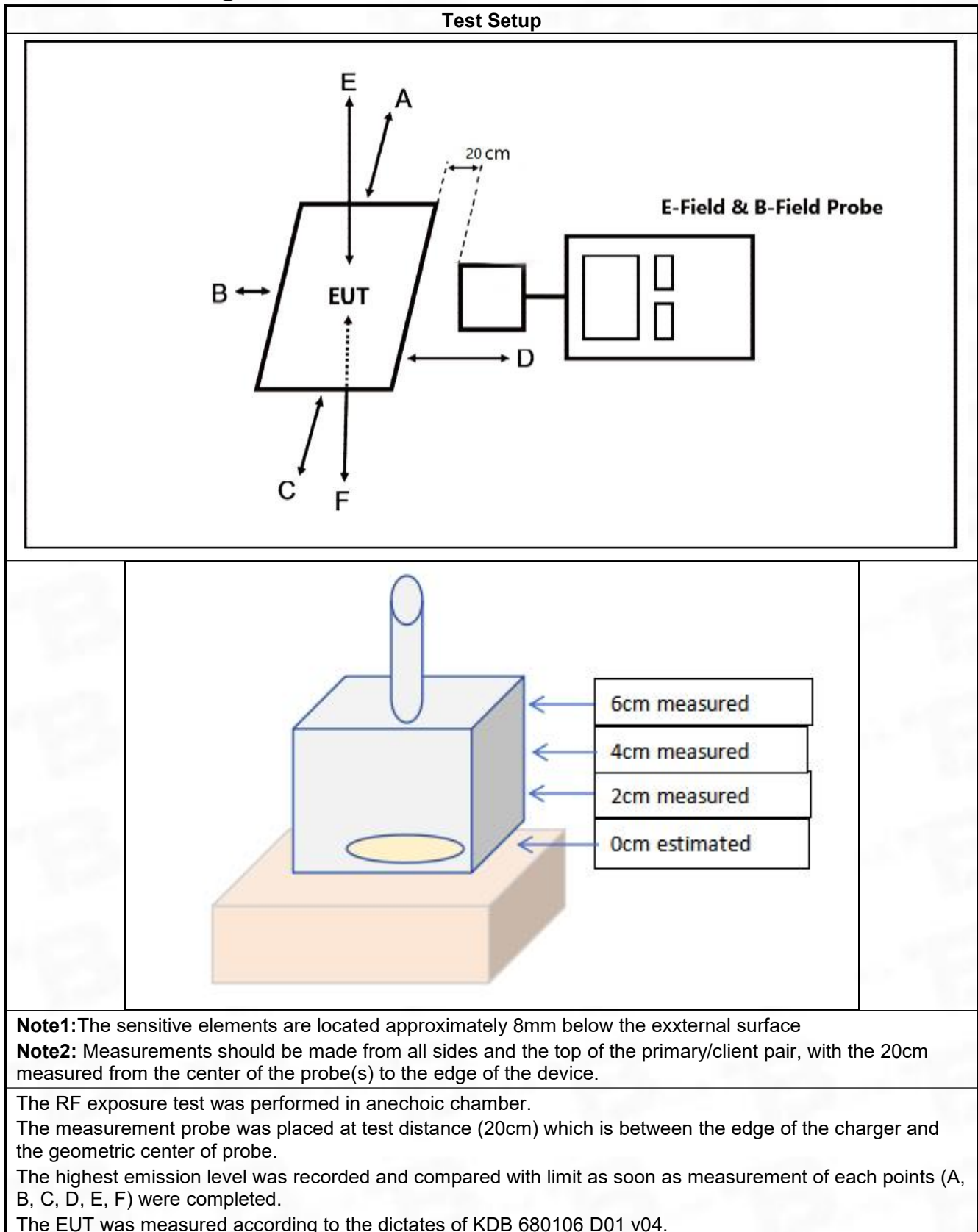
Yes, client device is placed directly in contact with the transmitter.

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

7 Test Settings



8 Exposure Assessment

8.1 E-Field Strength Test Date

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

Test Frequency (kHz)	Charging Battery Level	Measured E-Field Strength Values (V/m)							FCC E-Field Strength Limits (V/m)
		Measured Distance (cm)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
328.833	99%	20	0.1620	1.7563	1.5285	1.5288	2.9522	2.6707	614
	50%	20	0.2374	1.7928	1.6042	1.5677	3.0279	2.7826	614
	1%	20	0.3116	1.8691	1.6431	1.5937	3.1042	2.8584	614

Test Frequency (kHz)	Charging Battery Level	Measured E-Field Strength Values (V/m)							FCC E-Field Strength Limits (V/m)
		Measured Distance (cm)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
1.70011	99%	20	0.1622	1.7551	1.5295	1.5285	2.9523	2.6704	614
	50%	20	0.2371	1.7927	1.6043	1.5672	3.0282	2.7821	614
	1%	20	0.3128	1.8687	1.6427	1.5933	3.1046	2.8596	614

8.2 H-Field Strength Test Date:

➤ H-Field Strength a 20cm from the edges surrounding the EUT

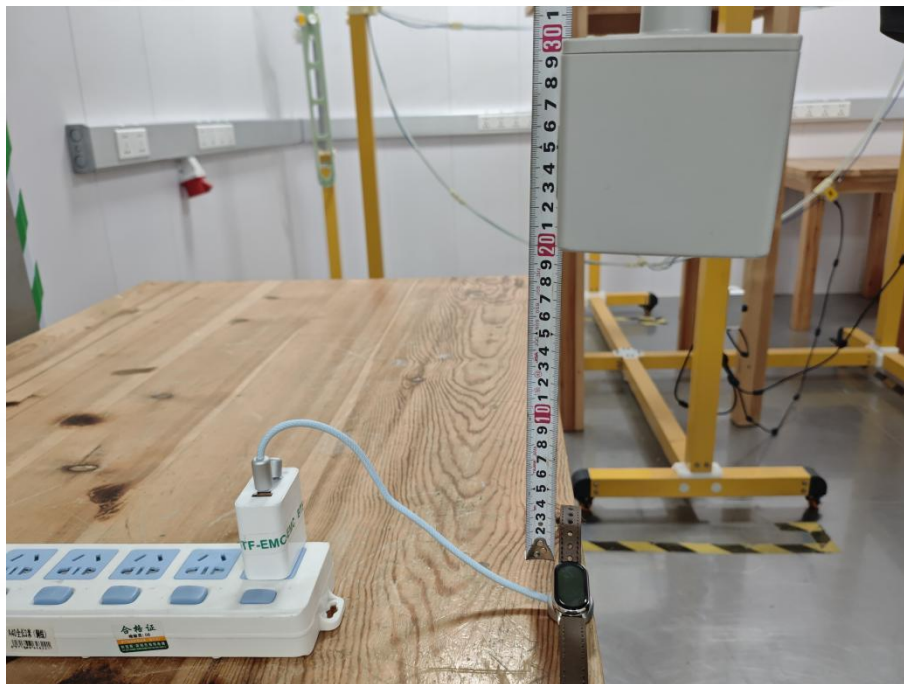
Test Frequency (kHz)	Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
		Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
328.833	99%	20	uT	0.0109	0.0081	0.0057	0.0085	0.0107	0.0114	--
	99%	20	A/m	0.0087	0.0065	0.0046	0.0068	0.0086	0.0092	1.63
	50%	20	uT	0.0095	0.0092	0.0079	0.0078	0.0128	0.0117	--
	50%	20	A/m	0.0076	0.0074	0.0063	0.0062	0.0103	0.0094	1.63
	1%	20	uT	0.0094	0.0088	0.0064	0.0075	0.0119	0.0105	--
	1%	20	A/m	0.0075	0.0071	0.0051	0.0060	0.0096	0.0084	1.63

Test Frequency (kHz)	Charging Battery Level	Measured E-Field Strength Values (V/m)								FCC H-Field Strength Limits (A/m)
		Measured Distance (cm)	Unit	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	
1.70011	99%	20	uT	0.0107	0.0075	0.0067	0.0084	0.0113	0.0119	--
	99%	20	A/m	0.0086	0.0060	0.0054	0.0067	0.0090	0.0095	1.63
	50%	20	uT	0.0098	0.0095	0.0063	0.0075	0.0125	0.0120	--
	50%	20	A/m	0.0079	0.0076	0.0051	0.0060	0.0100	0.0096	1.63
	1%	20	uT	0.0092	0.0094	0.0070	0.0071	0.0131	0.0114	--
	1%	20	A/m	0.0074	0.0075	0.0056	0.0057	0.0105	0.0091	1.63

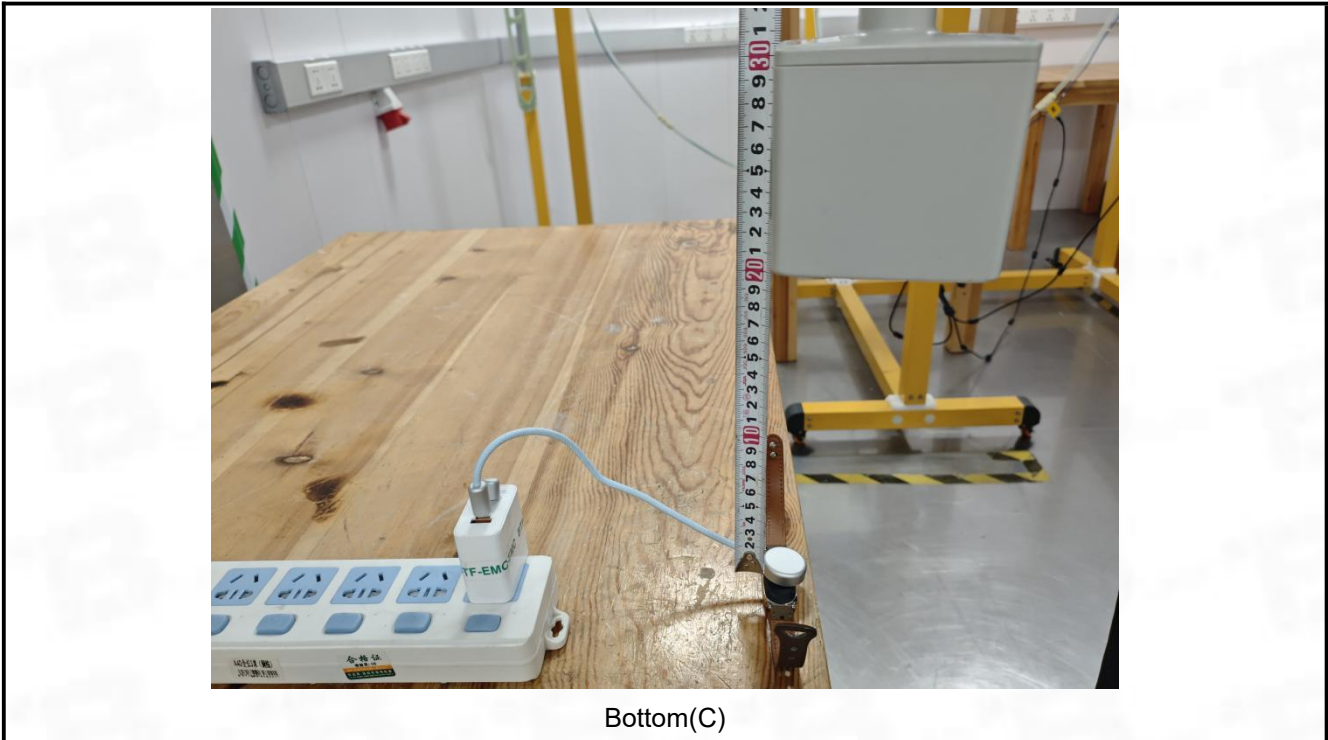
9 Test Setup Photos



Side(A)



Top(B)





BTF Testing Lab (Shenzhen) Co., Ltd.

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,
Bao'an District, Shenzhen, Guangdong, China

www.btf-lab.com

--END OF REPORT--