

TEST REPORT

Report No.: BCTC2208832515-2E

Applicant: KOROS TECHNOLOGY (SHENZHEN) CO.LTD

Product Name: Wireless Charging Base

Model/Type Ref.: WH-B001

Tested Date: 2022-08-28 to 2022-09-02

Issued Date: 2022-10-10

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2A8K8WHB001A

Product Name: Wireless Charging Base
Trademark: WaterH
Model/Type Ref.: WH-B001, WH-B001-SeashellBlue, WH-B001-White, WH-B001-MagnetiteBlue, WH-B002- SeashellBlue, WH-B002-White, WH-B002-MagnetiteBlue, WH-B001-Black, WH-B002-Black, WH-B001-Pink, WH-B002-Pink
Prepared For: KOROS TECHNOLOGY (SHENZHEN) CO.LTD
Address: Room 302, Building 4, No. 4, Jingnan Road, Longzhu Community, Buji Street, Shenzhen City, GuangDong, China
Manufacturer: Shenzhen Fangxin Technology Co., LTD
Address: Room 503, Hengbo Innovation Science and Technology Park, No. 33, Qingning Road, Longhua Street, Longhua District, Shenzhen
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2022-08-26
Sample tested Date: 2022-08-28 to 2022-09-02
Report No.: BCTC2208832515-2E
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Results: PASS

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

Table of Content

Test Report Declaration	Page
1. Version	4
2. Product Information	5
2.1 Product Information.....	5
2.2 Support Equipment	5
2.3 Test Mode	5
3. Test Facility and Test Instrument Used	6
3.1 Test Facility.....	6
3.2 Test Instrument Used.....	6
4. Method Of Measurement.....	7
4.1 Applicable Standard	7
4.2 Block Diagram Of Test Setup.....	7
4.3 Limit	8
4.4 Test Procedure	8
4.5 E And H Field Strength	9
5. Photographs of Test Set-Up	10

1. Version

Report No.	Issue Date	Description	Approved
BCTC2208832515-2E	2022-10-10	Original	Valid

2. Product Information

2.1 Product Information

Model/Type reference:	WH-B001, WH-B001-SeashellBlue,WH-B001-White,WH-B001-MagnetiteBlue, WH-B002- SeashellBlue,WH-B002-White,WH-B002-MagnetiteBlue, WH-B001-Black, WH-B002-Black, WH-B001-Pink, WH-B002-Pink
Model differences:	All models covered in this report are the same with each other, except for different model and appearance (for color, silk-screen) only for trading purpose. We choose WH-B001 as the final test prototype
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	112-205KHz
Antenna installation:	Loop coil antenna
Ratings:	AC120V/60Hz

2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1	Adapter	XIAOMI	A232-050200U-CN2	N/A	Auxiliary
2	Dummy load	N/A	DL02	N/A	Auxiliary

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

Test Modes 1	Wireless charger: 5W
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3. Test Facility and Test Instrument Used

3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

3.2 Test Instrument Used

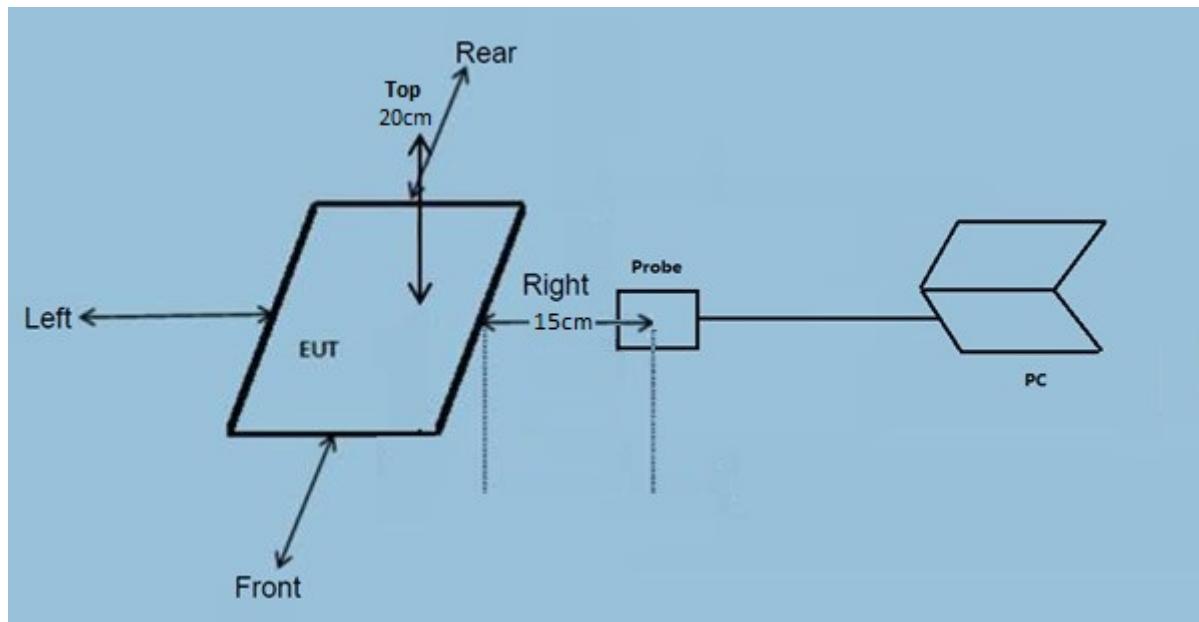
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electromagnetic radiation tester	Wavecontrol	SMP160	19SN0980	Aug. 28, 2022	Aug. 27, 2023
Electromagnetic field probe	Wavecontrol	WP400-3	20WP120082	Aug. 28, 2022	Aug. 27, 2023
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023

4. Method Of Measurement

4.1 Applicable 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 §2.1093 RF exposure is calculated. According KDB 680106 D01 RF Exposure Wireless Charging.

4.2 Block Diagram Of Test Setup



4.3 Limit

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

4.4 Test Procedure

- 1) RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed 15cm around the device for testing; The measurement probe was placed at 20 cm for surface testing.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of eachd The highest emission level was recorded and compared with limit as soon as measurement of each points (left, right, front, rear and top) were completed.
- 4) The EUT was measured according to the dictates of KDB680106 D01
- 5) Remark:
The EUT's test position left, right, front, rear and top is valid for the E and H field measurements.

4.5 E And H Field Strength

Worst Case Operating Mode: Mode 1

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (KHz)	Operation condition	Test Position Front (A/m)	Test Position Rear (A/m)	Test Position Left (A/m)	Test Position Right (A/m)	Test Position Top (A/m)	Limits (A/m)
112-205KHz	Full load	0.457	0.432	0.415	0.429	0.433	1.63
112-205KHz	Half load	0.396	0.385	0.336	0.328	0.401	1.63
112-205KHz	No load	0.219	0.295	0.278	0.235	0.227	1.63

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

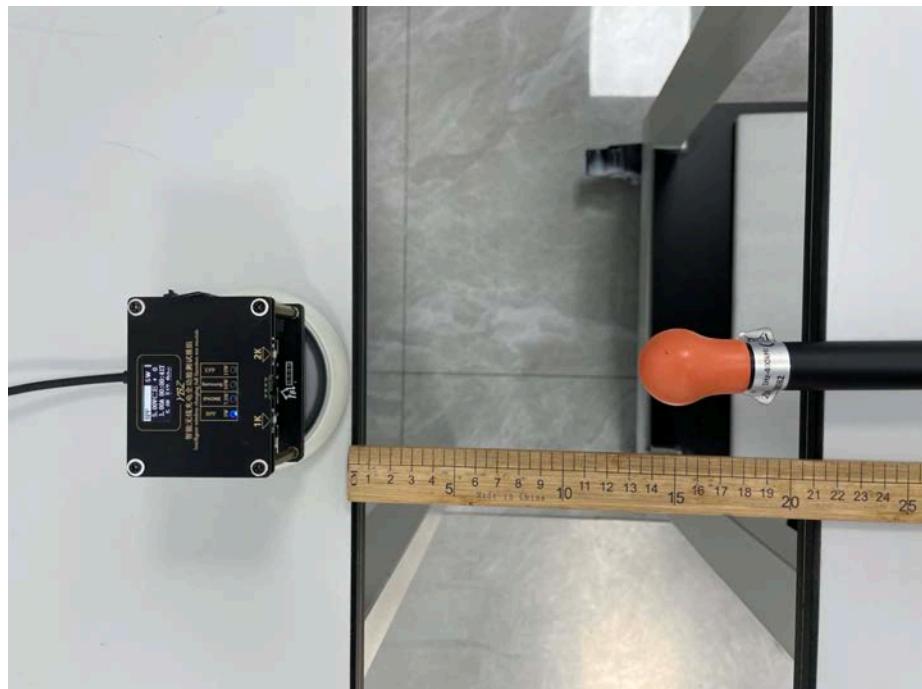
Frequency Range (KHz)	Operation condition	Test Position Front (V/m)	Test Position Rear (V/m)	Test Position Left (V/m)	Test Position Right (V/m)	Test Position Top (V/m)	Limits (V/m)
112-205KHz	Full load	0.853	0.836	0.809	0.838	0.815	614
112-205KHz	Half load	0.632	0.655	0.697	0.621	0.638	614
112-205KHz	No load	0.535	0.597	0.608	0.615	0.635	614

Note: In the frequency range of 1k-10M, except the fundamental frequency, other transmissions of the power transmission system are less than 20dB lower than the maximum fundamental transmission, so it is not necessary to evaluate.

- 1) Power transfer frequency is less than 1 MHz
Reply: transfer frequency is 112-205kHz.
- 2) Output power from each primary coil is less than or equal to 15 watts.
Reply: maximum power output of 5 watts
- 3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
Reply: transfer system includes only single primary coils;
- 4) Client device is placed directly in contact with the transmitter.
Reply: Client device is placed directly in contact with the transmitter;
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Reply: The charger belongs to the mobile device and subjects to mobile exposure conditions only.
- 6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.
Reply: The product meets the requirement of less than 50% of the applicable MPE limit

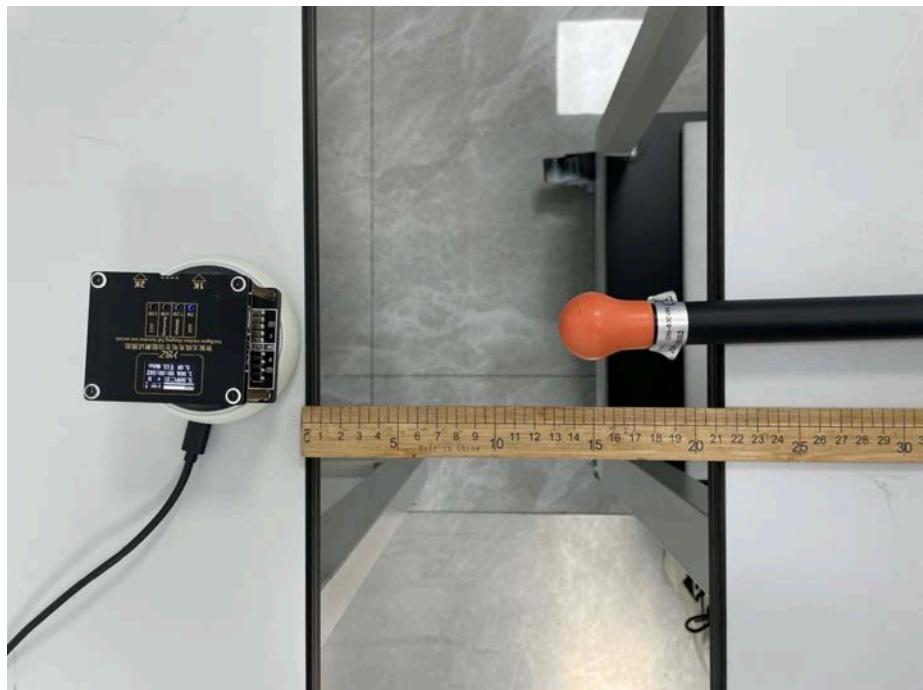
5. Photographs of Test Set-Up

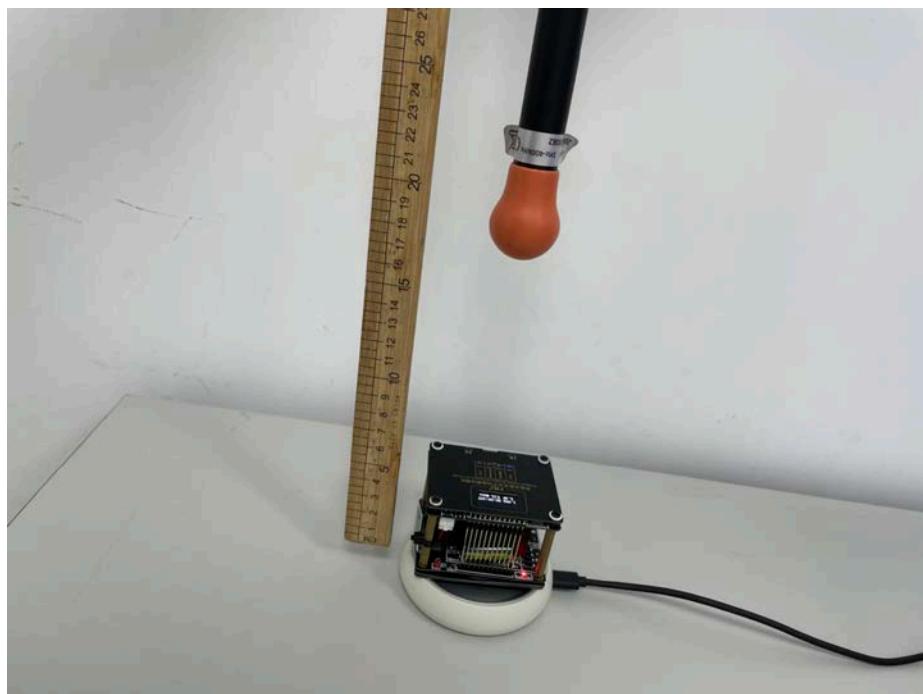
Front



Rear



Left**Right**

Top

STATEMENT

- 1.The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab.
- 3.The test report is invalid without stamp of laboratory.
- 4.The test report is invalid without signature of person(s) testing and authorizing.
- 5.The test process and test result is only related to the Unit Under Test.
- 6.The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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***** END *****