

# **TEST REPORT**

Report No.: BCTC2202518246-2E

Applicant: shenzhenshiqianyidianzishangwukejiyouxiangongsi

Product Name: Multifunctional 4 in 1 charging stand

Model/Type cE48B reference:

Tested Date: 2022-02-16 to 2022-02-21

Issued Date: 2022-02-21





No.: BCTC/RF-EMC-005 Page 1 of 14 / / / Edition: A.4



# FCC ID:2A4T2-CE48B

Product Name: Multifunctional 4 in 1 charging stand

Trademark: CEREECOO

Model/Type reference: CE48B

TS-291A4, CR48S, CR48SG, CR48W

Prepared For: shenzhenshiqianyidianzishangwukejiyouxiangongsi

Address: guangdong shenzhenshilonggangqunanwanjiedaoxialilangshequ

xiangyelu7haoganghonggongyequ1haochangfang3lou3A12

Manufacturer: shenzhenshiqianyidianzishangwukejiyouxiangongsi

Address: guangdong shenzhenshilonggangqunanwanjiedaoxialilangshequ

xiangyelu7haoganghonggongyequ1haochangfang3lou3A12

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: 2022-02-16

Sample tested Date: 2022-02-16 to 2022-02-21

Issue Date: 2022-02-21

Report No.: BCTC2202518246-2E

Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310

Test Results: PASS

Tested by:

kelsey Ton

Kelsey Tan/ 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.

No.: BCTC/RF-EMC-005 Page 2 of 14 / / Edition: A.4

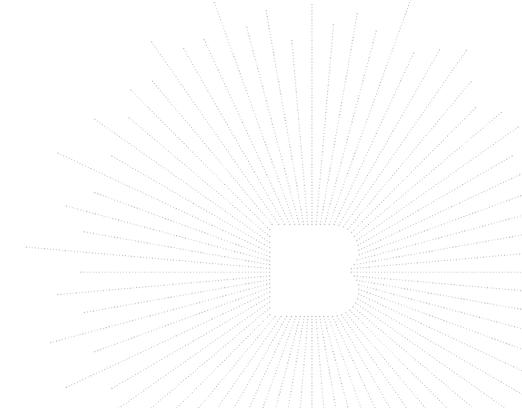


## **Table Of Content**

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

(Note: N/A Means Not Applicable)

No.: BCTC/RF-EMC-005

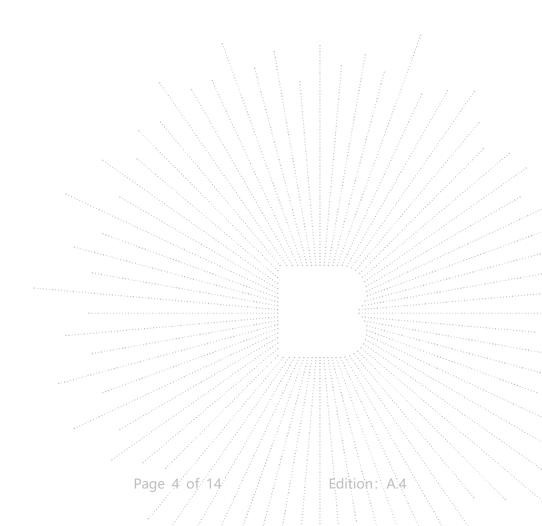


Edition: A.4



## 1. Version

Report No. Issue Date		Description	Approved
BCTC2202518246-2E	2022-02-21	Original	Valid



No.: BCTC/RF-EMC-005



#### 2. Product Information

#### 2.1 Product Information

Model/Type reference: CE48B

TS-291A4, CR48S, CR48SG, CR48W

Model differences: All the model are the same circuit and RF module, except model names.

Hardware Version: N/A
Software Version: N/A

Product Description: Multifunctional 4 in 1 charging stand

Operation Frequency: 115kHz-205kHz
Antenna installation: loop coil antenna

Input: DC9V/2A-9V3A

Ratings: Output: Earphone: DC5V/1A(Max)

Phone wireless charging pad:DC9V/1.1A(Max)

Input: AC 110V~240V 50-60Hz 0.55A

Adapter information: Output:USB-A port1: DC12V1.5A/9V2A/5V3A

USB-A port2 and USB-A port3: DC5V2.4A

# 2.2 Support Equipment

Device Type	Brand	Model	Series No.	Note
Multifunctional 4 in 1 charging stand	CEREECOO	CE48B	Ref. the Section 4.1	/ EUT /
Phone	iPhone	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A	Auxiliary
Adapter	CEREECOO	CE48B	Ref. the Section 4.1	EUT

#### 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 Mode 1	5W///
Test Mode 2	7.5W//
Test Mode 3	10W/////\\\\\\



## 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

EMF Test								
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.			
Electro magnetic radiation tester	Wavecontrol	SMP160	19SN0980	Aug. 30, 2021	Aug. 29, 2022			
Electro magnetic field probe	Wavecontrol	WP400-3	20WP120082	Aug. 30, 2021	Aug. 29, 2022			
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023			
Software	Frad	EZ-EMC	EMC-CON 3A1	, \	\ /			

No.: BCTC/RF-EMC-005 Page 6 of 14 / Edition: A.4

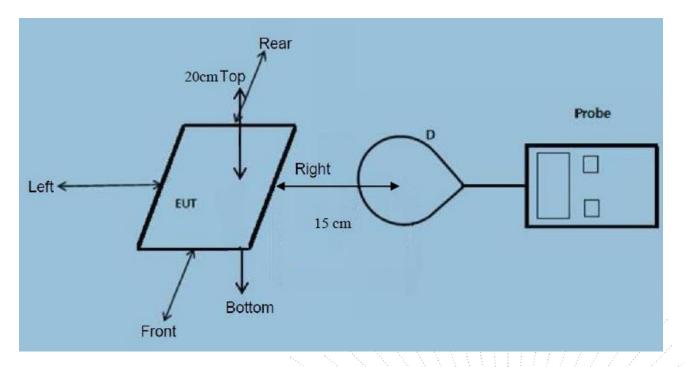


#### 4. Method Of Measurement

#### 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 KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

# 4.2 Block Diagram Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

No.: BCTC/RF-EMC-005 Page 7 of 14 / / Edition: A.4



#### 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/ cm²)	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/ cm²)	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

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

No.: BCTC/RF-EMC-005 Page 8 of 14 / / Edition: A4



#### 4.5 Equipment Approval Considerations

The EUT does comply with item 5(b) of KDB 680106 D01v03

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 115-205KHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 10W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

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

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, the EUT is a mophie 4 device charging mat.

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT field strength levels are 10% x MPE limit.

No.: BCTC/RF-EMC-005 Page 9 of 14 / Edition: A.4



# 4.6 E and H field Strength

(The worst data)

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

Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.115-0.205	0.85	0.38	0.70	0.77	0.55	61.4	614
50%	0.115-0.205	0.74	0.44	0.91	0.91	0.86	61.4	614
99%	0.115-0.205	0.63	0.63	0.55	0.57	0.86	61.4	614

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

Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.115-0.205	0.080	0.067	0.072	0.074	0.071	0.163	1.63
50%	0.115-0.205	0.066	0.063	0.073	0.073	0.079	0.163	1.63
99%	0.115-0.205	0.074	0.076	0.070	0.073	0.070	0.163	1.63

No.: BCTC/RF-EMC-005 Page 10 of 14 / / Edition; A.4



# 5. Photographs Of Test Set-Up





No.: BCTC/RF-EMC-005 Page 11 of 14 / / Edition, A.4



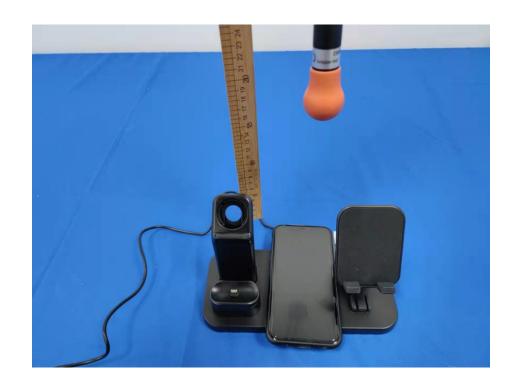


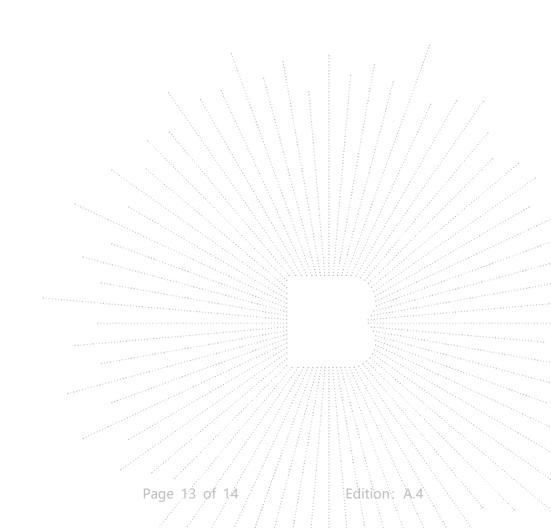




No.: BCTC/RF-EMC-005 Page 12 of 14 / / Edition: A.4







No.: BCTC/RF-EMC-005



# **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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P.C.: 518103

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Website: http://www.chnbctc.com

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\*\*\*\* END \*\*\*\*

No.: BCTC/RF-EMC-005 Page 14 of 14 / / Edition; A.4