

# TEST REPORT

Report No.: BCTC2208273378-2E

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Applicant: Shenzhen Pilot Technology Co.,Ltd

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Product Name: Wireless Desktop Charger

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Model/Type Ref.: M230

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Tested Date: 2022-08-03 to 2022-08-10

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Issued Date: 2022-08-23

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**Shenzhen BCTC Testing Co., Ltd.**

**FCC ID: 2AONAM230**

Product Name: Wireless Desktop Charger

Trademark: N/A

Model/Type Ref.: M230

Prepared For: Shenzhen Pilot Technology Co.,Ltd

Address: 101 A1 Industrial Park, building a1, No.7, Shankeng Road, Shanxia Community, Pinghu Street, Longgang District, Shenzhen City China.

Manufacturer: Shenzhen Pilot Technology Co.,Ltd

Address: 101 A1 Industrial Park, building a1, No.7, Shankeng Road, Shanxia Community, Pinghu Street, Longgang District, Shenzhen City China.

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: 2022-08-02

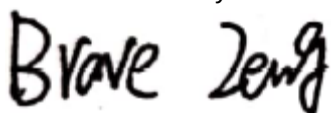
Sample tested Date: 2022-08-03 to 2022-08-10

Report No.: BCTC2208273378-2E

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:

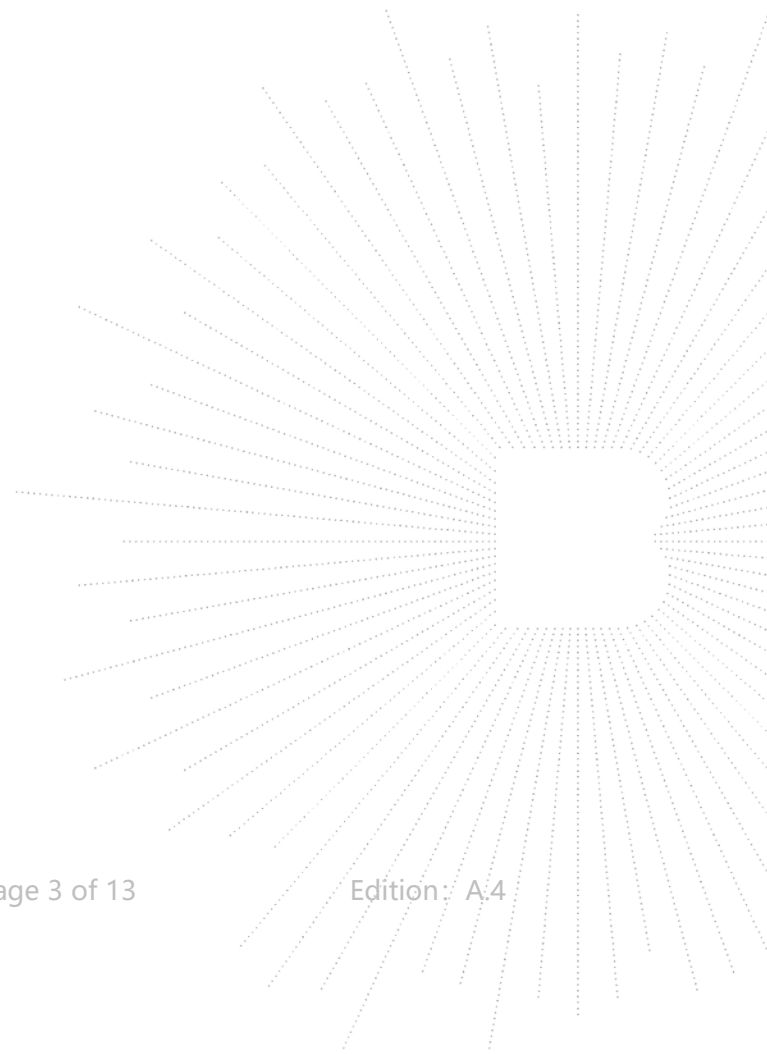


Zero Zhou/Reviewer

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.

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**1. Version**

| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2208273378-2E | 2022-08-23 | Original    | Valid    |
|                   |            |             |          |

## 2. Product Information

### 2.1 Product Information

|                       |                   |
|-----------------------|-------------------|
| Model/Type reference: | M230              |
| Model differences:    | N/A               |
| 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   | Mobile Phone | XIAOMI | M10   | N/A        | Auxiliary |
| 2   | Mobile Phone | XIAOMI | M10   | 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: 10W                                         |
| Test Modes 2 | Wireless charger: 5W                                          |
| Test Modes 3 | Wireless charger: 10W+ Wireless charger: 5W                   |
| Test Modes 4 | Wireless charger: 10W + USB-C+ USB-A 15W                      |
| Test Modes 5 | Wireless charger: 5W + USB-C+ USB-A 15W                       |
| Test Modes 6 | Wireless charger: 10W+ Wireless charger: 5W+ USB-C+ USB-A 15W |

### 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

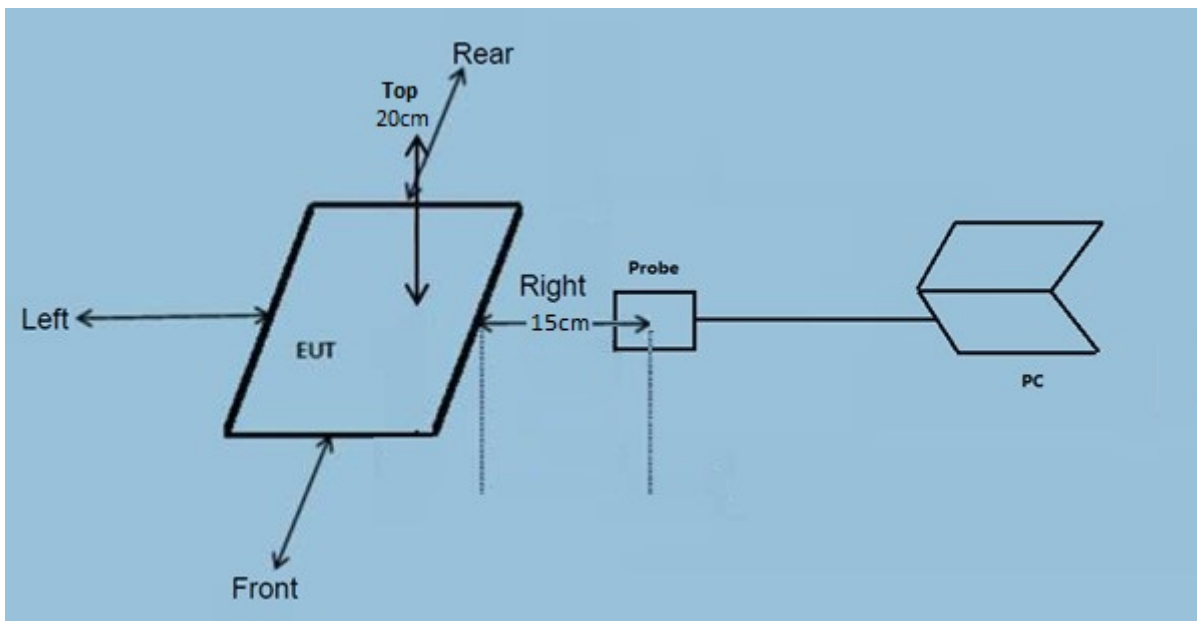
| Equipment                        | Manufacturer | Model No. | Serial No. | Last Cal.     | Next Cal.     |
|----------------------------------|--------------|-----------|------------|---------------|---------------|
| Electromagnetic radiation tester | Wavecontrol  | SMP160    | 19SN0980   | Aug. 30, 2021 | Aug. 29, 2022 |
| Electromagnetic field probe      | Wavecontrol  | WP400-3   | 20WP120082 | Aug. 30, 2021 | Aug. 29, 2022 |
| 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 <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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 <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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 6

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           | 0.357                     | 0.321                    | 0.295                    | 0.231                     | 0.495                   | 1.63         |
| 112-205KHz            | Half load           | 0.369                     | 0.339                    | 0.301                    | 0.258                     | 0.503                   | 1.63         |
| 112-205KHz            | No load             | 0.163                     | 0.189                    | 0.111                    | 0.115                     | 0.136                   | 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           | 0.632                     | 0.871                    | 0.735                    | 0.736                     | 0.855                   | 614          |
| 112-205KHz            | Half load           | 0.675                     | 0.835                    | 0.722                    | 0.635                     | 0.639                   | 614          |
| 112-205KHz            | No load             | 0.353                     | 0.254                    | 0.237                    | 0.296                     | 0.236                   | 614          |

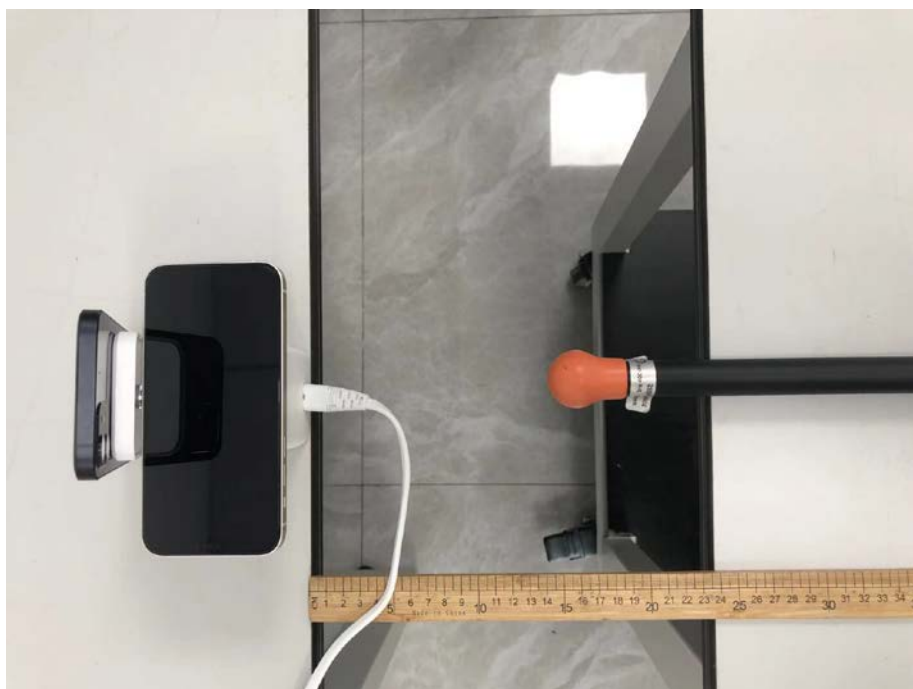
Note: In the frequency range of 1k-10M, except the fundamental frequency, other transmissions of the power transmission system are less than 20dB lower than the maximum fundamental transmission, so it is not necessary to evaluate.

## 5. Photographs of Test Set-Up

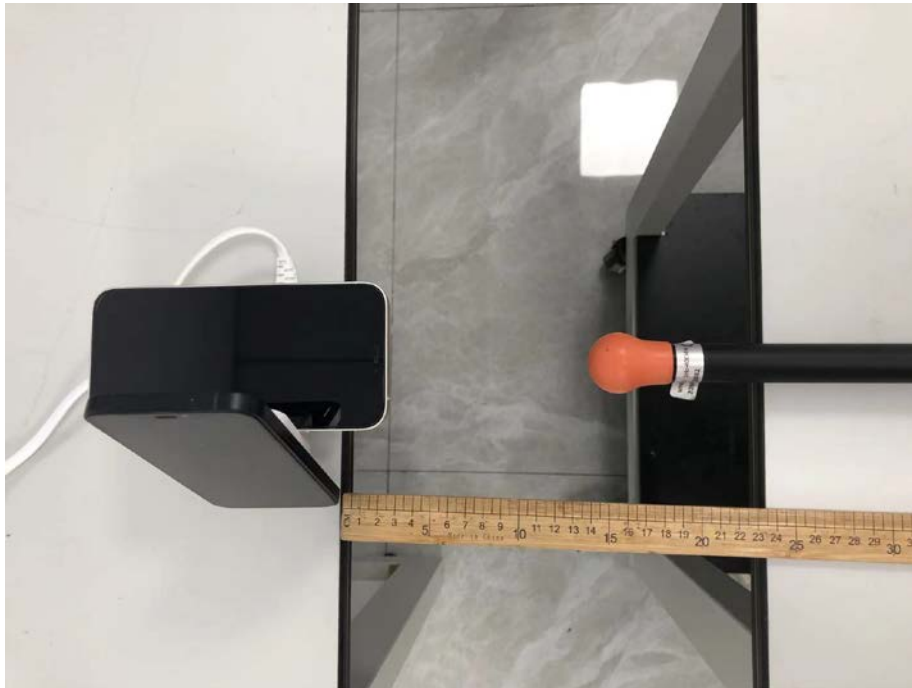
**Front**



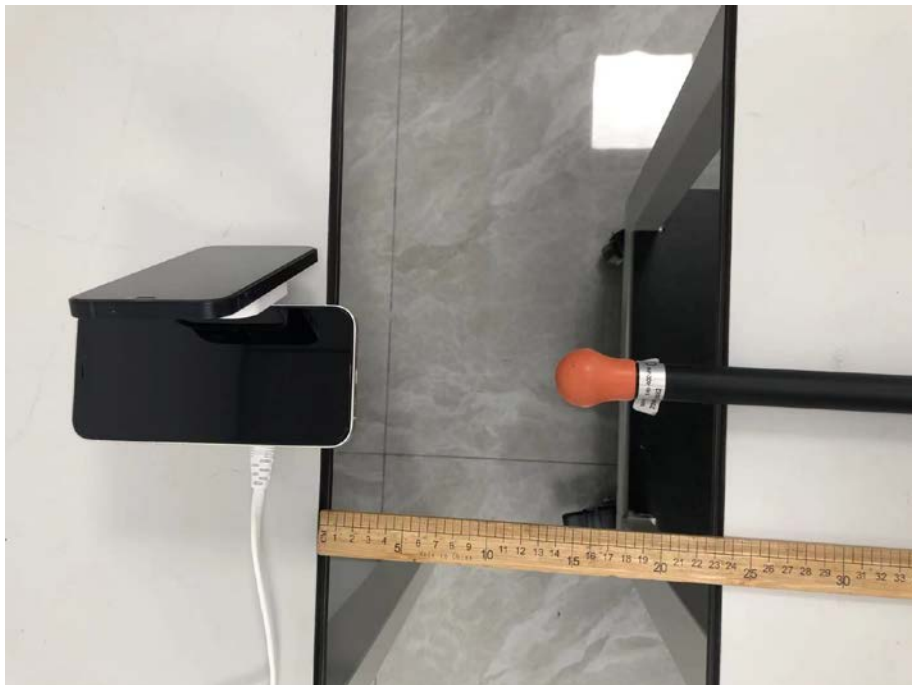
**Rear**



**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:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

E-Mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

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