



# RF EXPOSURE REPORT

## For

### FCC ID:2AN8FMSL-W26Q

|                  |                                                                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:    | Wireless Charging with Phone Stand                                                                                                                    |
| Trademark:       | N/A                                                                                                                                                   |
| Model Number:    | MSL-W26Q                                                                                                                                              |
| Prepared For :   | Shenzhen Mossloo Industrial Co.,Ltd                                                                                                                   |
| Address :        | Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street,<br>Longgang District, Shenzhen, China                                       |
| Prepared By :    | Shenzhen BCTC Testing Co., Ltd.                                                                                                                       |
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| Test Date:       | Apr. 15, 2019 – Apr. 22, 2019                                                                                                                         |
| Date of Report : | Apr. 22, 2019                                                                                                                                         |
| Report No.:      | BCTC-FY190401884-1E                                                                                                                                   |



## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Shenzhen Mossloo Industrial Co.,Ltd  
**Address**..... : Road One No.4, Science Industrial Park, Shangxue Village,  
Bantian Street, Longgang District, Shenzhen, China  
**Manufacture's Name** ..... : Shenzhen Mossloo Industrial Co.,Ltd  
**Address**..... : Road One No.4, Science Industrial Park, Shangxue Village,  
Bantian Street, Longgang District, Shenzhen, China

### Product description

**Product name** ..... : Wireless Charging with Phone Stand  
**Trademark** ..... : N/A  
**Model and/or type reference** : MSL-W26Q  
**Serial Model** : N/A  
**Power Supply** : Input: DC 5V/1.5A  
Wireless output: DC 5V/1A(5W)  
**Model Difference** : N/A

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

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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*Zero Zhou*





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## 1. GENERAL INFORMATION

### 1.1. Independent Operation Mode

The basic operation mode is:

#### 1.1.1. Charging

### 1.2. Test Supporting System

Adapter

Description : Adapter

Model No. : BCTC-002

Power Input : AC 100-240V~50/60Hz

Output: 5V $\overline{\text{---}}$  2A

DC Line : Unshielded, Detachable 1m

Mobile phone

Model No. : iphone8

Model No. : iphone



## 2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

### 2.1. For conducted emission at the mains terminals test

| Equipment                      | Manufacturer | Model No.               | Serial No. | Last Cal.     | Next Cal.     |
|--------------------------------|--------------|-------------------------|------------|---------------|---------------|
| Exposure<br>Level Tester       | Narda        | ELT-400                 | N-0231     | Aug. 08, 2017 | Aug. 07, 2019 |
| Magnetic field<br>probe 100cm2 | Narda        | B-Field Probe<br>100cm2 | M0675      | Aug. 08, 2017 | Aug. 07, 2019 |
| 843 Chamber                    | ETS          | 843                     | 84301      | Aug. 27, 2017 | Aug. 26, 2019 |



### 3. METHOD OF MEASUREMENT

#### 3. 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.

#### 3. 2. Test Modes

|            |                          |
|------------|--------------------------|
| Test Modes | keeping TX+Charging mode |
|------------|--------------------------|

#### 3. 3. MAXIMUM PERMISSIBLE EXPOSURE

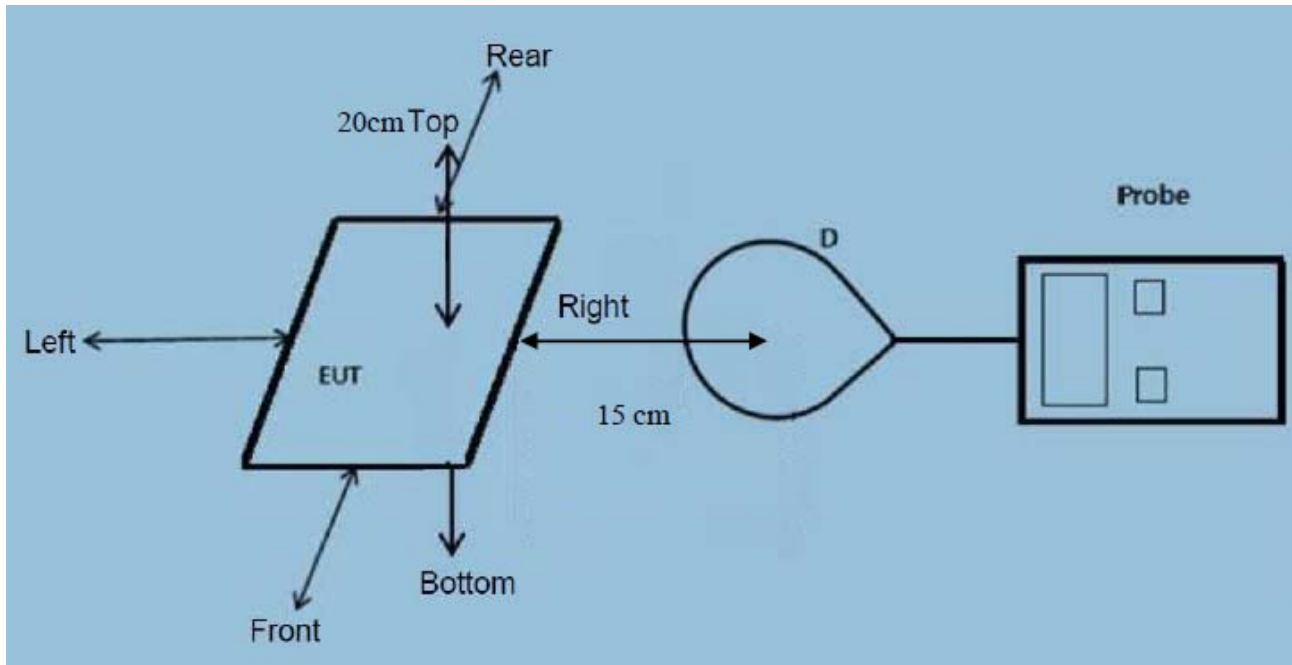
##### Limit of Maximum Permissible Exposure

| 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. TEST RESULT

### 4.1. Conducted Emission at the Mains Terminals Test



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

#### Test Procedure:

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



#### 4.2. 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 120 KHz to 220 KHz

2) Output power from each primary coil is less than or equal to 10 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 Mobile Wireless Charger

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 50% x MPE limit.





#### 4.3. 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 | Test Position F | 50% Limits Test (V/m) | Limits Test (V/m) |
|---------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 1%            | 0.110-0.205           | 0.78            | 0.66            | 0.65            | 0.65            | 0.77            | 0.61            | 307                   | 614               |
| 50%           | 0.110-0.205           | 0.68            | 0.56            | 0.51            | 0.52            | 0.42            | 0.64            | 307                   | 614               |
| 99%           | 0.110-0.205           | 0.53            | 0.44            | 0.44            | 0.52            | 0.51            | 0.54            | 307                   | 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 | Test Position F | 50% Limits Test (A/m) | Limits Test (A/m) |
|---------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 1%            | 0.110-0.205           | 0.23            | 0.26            | 0.27            | 0.14            | 0.17            | 0.19            | 0.815                 | 1.63              |
| 50%           | 0.110-0.205           | 0.23            | 0.23            | 0.21            | 0.17            | 0.11            | 0.12            | 0.815                 | 1.63              |
| 99%           | 0.110-0.205           | 0.15            | 0.16            | 0.14            | 0.14            | 0.10            | 0.13            | 0.815                 | 1.63              |



## 5. Photographs of test set-up







\*\*\*\*\* END OF REPORT \*\*\*\*\*