



RF Exposure Report

**Test report
On Behalf of
THUMBS UP (UK) LTD
For
Wireless Charger
Model No.: SW-03ULLA, SW-03LORI,
SW-03SPLAT, SW-03DISC**

FCC ID: 2AHHESW03XXXX

Prepared for : THUMBS UP (UK) LTD
Unit L, Braintree Industrial Estate, Braintree Road, HA4 0EJ, Ruislip

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
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Date of Test: Aug. 30, 2018 to Sep. 13, 2018

Date of Report: Sep. 13, 2018

Report Number: HK1809111036E



TEST RESULT CERTIFICATION

Applicant's name : THUMBS UP (UK) LTD
Address : Unit L, Braintree Industrial Estate, Braintree Road, HA4 0EJ, Ruislip
Manufacture's Name : THUMBS UP (UK) LTD
Address : Unit L, Braintree Industrial Estate, Braintree Road, HA4 0EJ, Ruislip

Product description

Trade Mark: N/A
 Product name..... : Wireless Charger
 Model and/or type reference : SW-03ULLA
 Serial Model SW-03LORI, SW-03SPLAT, SW-03DISC
 Different description All the same except for the appearance.

Standards : KDB 680106 D01 RF Exposure Wireless Charging Base App v03

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Date of Test..... :

Date (s) of performance of tests..... : Aug. 30, 2018 to Sep. 13, 2018
 Date of Issue..... : Sep. 13, 2018
 Test Result..... : **Pass**

Testing Engineer : Gary Qian
 (Gary Qian)

Technical Manager : Eden Hu
 (Eden Hu)

Authorized Signatory : Jason Zhou
 (Jason Zhou)



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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

| DESCRIPTION OF TEST | RESULT |
|-------------------------------------|-----------|
| E and H field strength measurements | Compliant |

1.2 TEST FACILITY

Test Firm : Shenzhen HUAKE Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,
Fuhai Street, Bao'an District, Shenzhen City, China

Designation Number: : CN1229

Test Firm Registration Number : 616276

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2

Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2

Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

| | |
|-------------------------------|---|
| Operation Frequency | 176.3KHz |
| Maximum field strength | 57.35dBuV/m(Peak)@3m |
| Number of channels | 1 |
| Antenna Designation | Integrated Antenna (Met 15.203 Antenna requirement) |
| Hardware Version | V1.1 |
| Software Version | 0X18B3 |
| Power Supply | DC5V/2A |



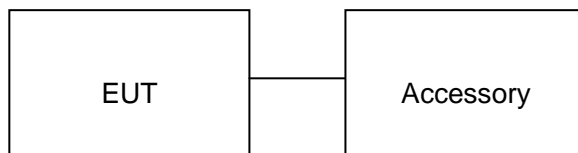
2.2 OPERATION OF EUT DURING TESTING

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------------------|
| 1 | Wireless charging Mode(Full load) |
| 2 | Wireless charging Mode(half load) |
| 3 | Wireless charging Mode(Null load) |

Note:
1. The mode 1 was the worst case and only the data of the worst case record in this report.

2.3 DESCRIPTION OF TEST SETUP

Configure :



| Item | Equipment | Model No. | ID or Specification | Remark |
|------|--------------------------|-----------|---------------------|---------|
| 1 | Wireless electronic Load | -- | Maximum power 5W | Support |
| 2 | Adapter | CG5010 | DC5V/2A | AE |



3. TEST EQUIPMENT LIST

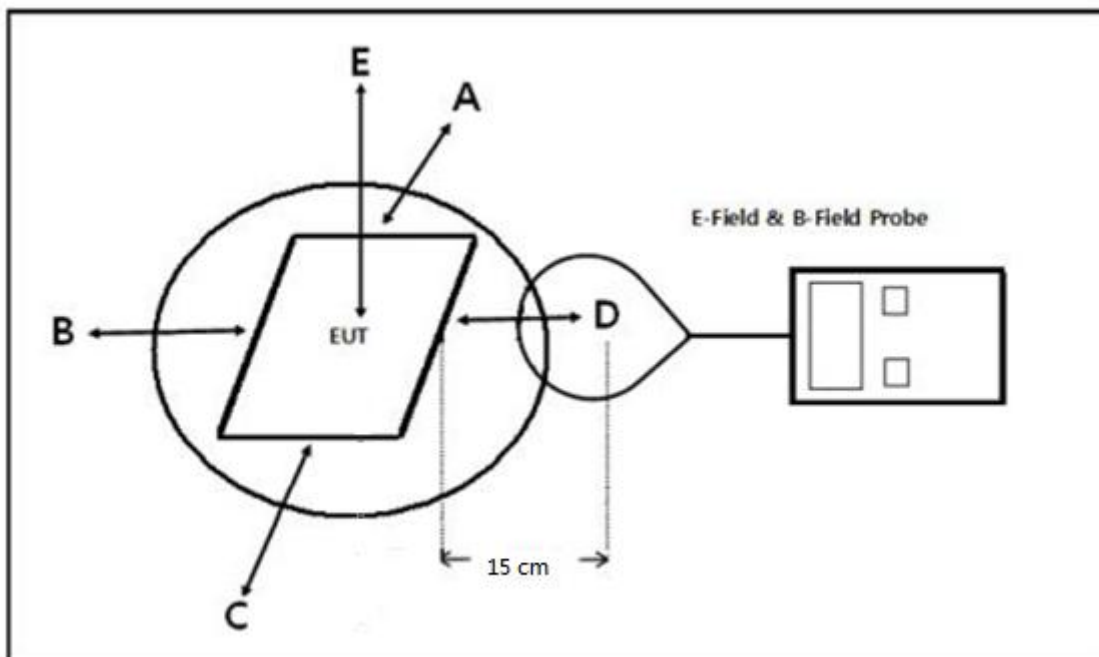
| Description | Manufacturer | Model | S/N | Cal. Date | Cal. Due |
|-----------------------|----------------------------------|---------|--------|---------------|---------------|
| Broadband Field Meter | Narda Safety Test Solutions GmbH | NBM-550 | J-0004 | June 12, 2018 | June 11, 2019 |
| Probe FHP | Narda Safety Test Solutions GmbH | EHP-50F | J-0015 | June 12, 2018 | June 11, 2019 |

4. RADIO FREQUENCY (RF) EXPOSURE TEST

4.1. LIMITS

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. 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. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

4.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(15 cm measure distance);



4.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 15cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

4.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

| Frequency Range | Probe Position A (V/m) | Probe Position B (V/m) | Probe Position C (V/m) | Probe Position D (V/m) | Probe Position E (V/m) | Limit (V/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 176.3kHz | 0.09 | 0.09 | 0.09 | 0.09 | 1.26 | 614 |

H-field strength test result:

| Frequency Range | Probe Position A (A/m) | Probe Position B (A/m) | Probe Position C (A/m) | Probe Position D (A/m) | Probe Position E (A/m) | Limit (A/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 176.3kHz | 0.11 | 0.11 | 0.11 | 0.11 | 0.47 | 1.63 |

Test condition: Mode 2

E-field strength test result:

| Frequency Range | Probe Position A (V/m) | Probe Position B (V/m) | Probe Position C (V/m) | Probe Position D (V/m) | Probe Position E (V/m) | Limit (V/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 154.6kHz | 0.15 | 0.15 | 0.15 | 0.15 | 0.85 | 614 |

H-field strength test result:

| Frequency Range | Probe Position A (A/m) | Probe Position B (A/m) | Probe Position C (A/m) | Probe Position D (A/m) | Probe Position E (A/m) | Limit (A/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 154.6kHz | 0.10 | 0.10 | 0.10 | 0.10 | 0.33 | 1.63 |



Test condition: Mode 3

E-field strength test result:

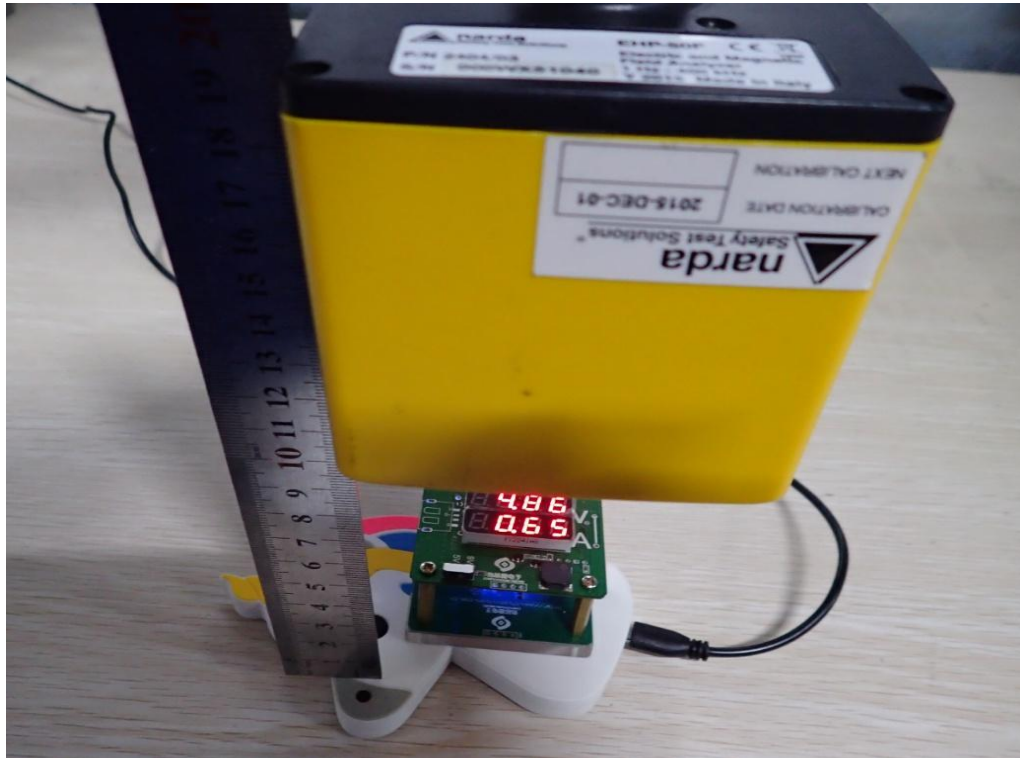
| Frequency Range | Probe Position A (V/m) | Probe Position B (V/m) | Probe Position C (V/m) | Probe Position D (V/m) | Probe Position E (V/m) | Limit (V/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 154.1kHz | 0.15 | 0.15 | 0.15 | 0.15 | 0.84 | 614 |

H-field strength test result:

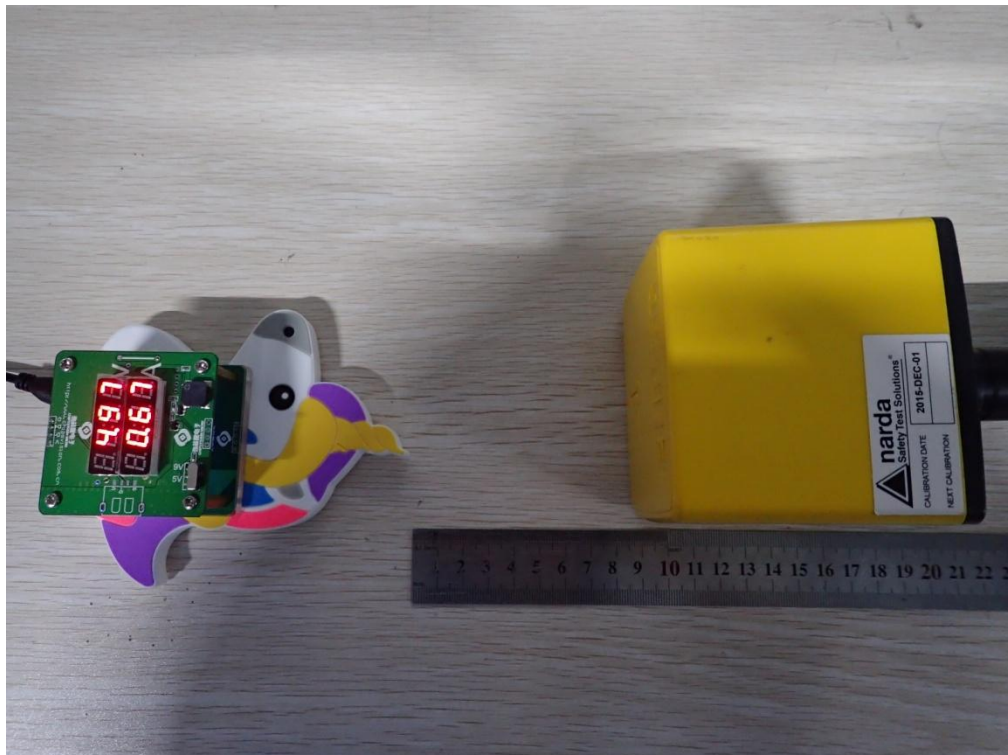
| Frequency Range | Probe Position A (A/m) | Probe Position B (A/m) | Probe Position C (A/m) | Probe Position D (A/m) | Probe Position E (A/m) | Limit (A/m) |
|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|
| 154.1kHz | 0.12 | 0.12 | 0.12 | 0.12 | 0.28 | 1.63 |

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E

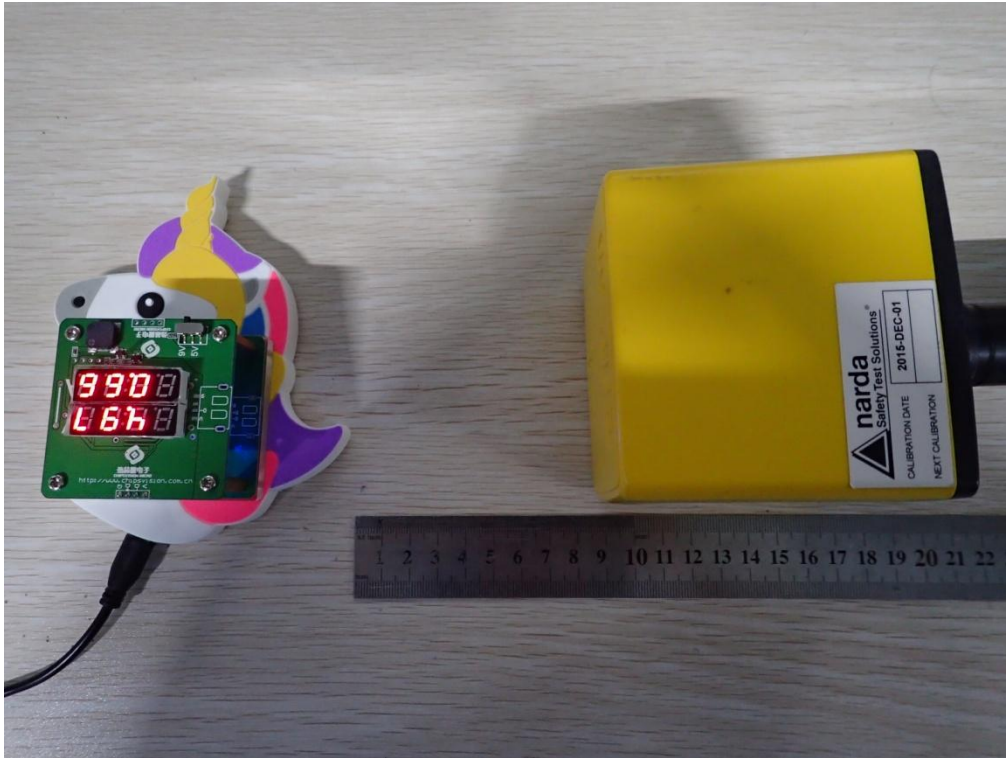


Position A

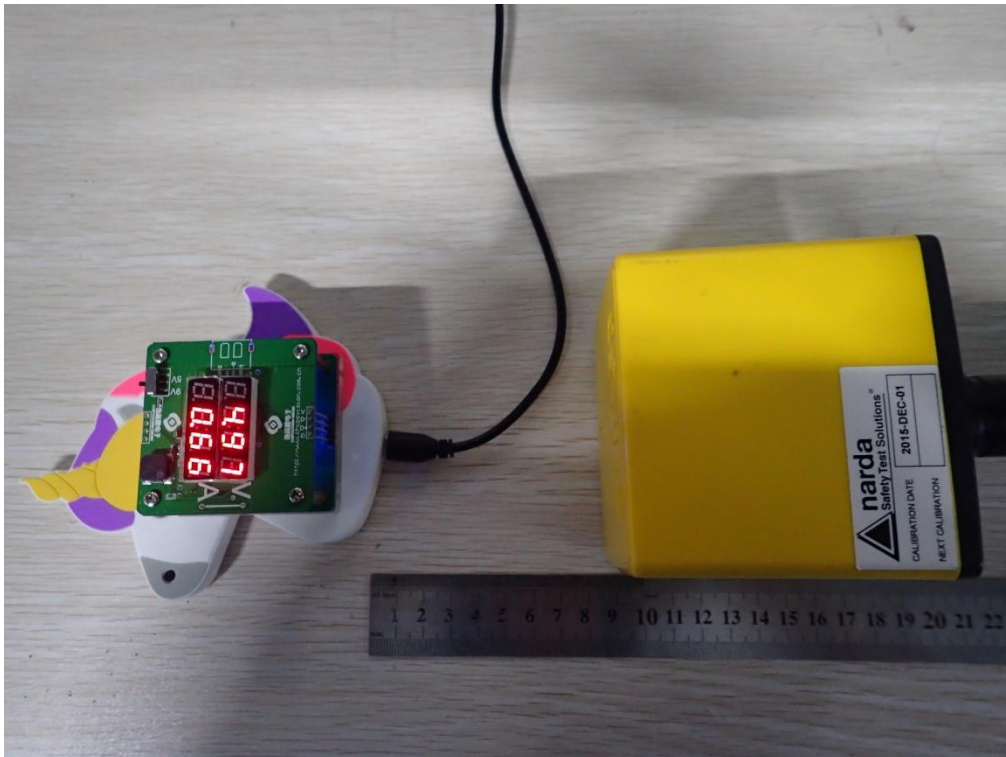




Position B

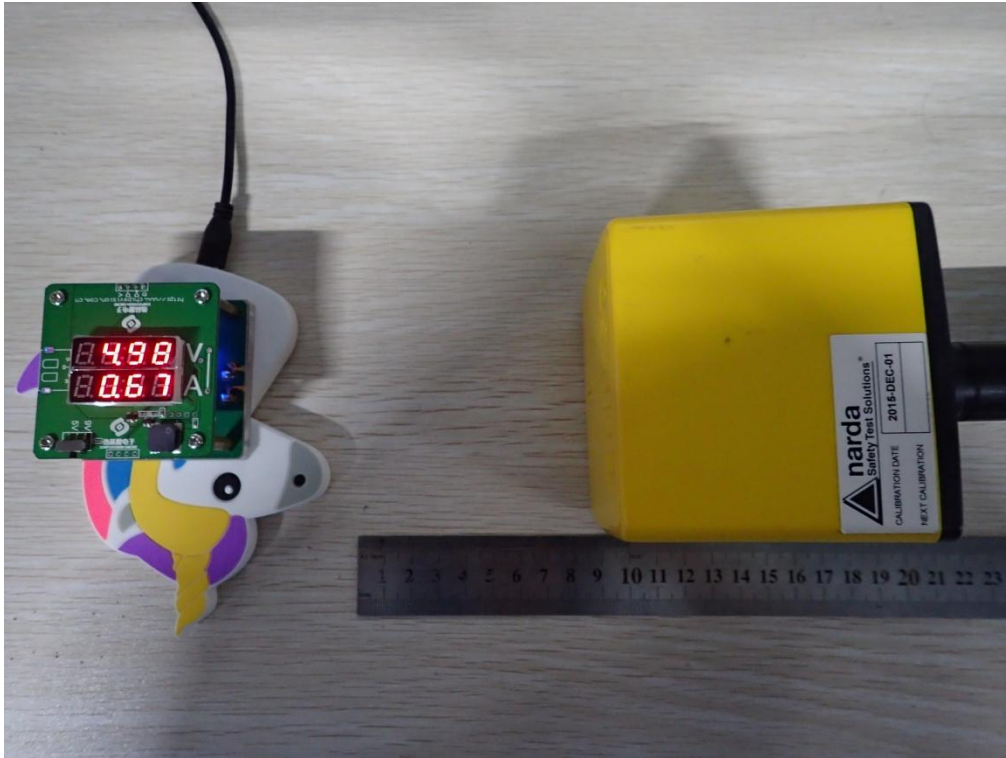


Position C





Position D



----END OF REPORT----