

FCC TEST REPORT

For

Anker Technology Co., Limited.

Powerport Wireless 5 Pad

Model No.: A2518

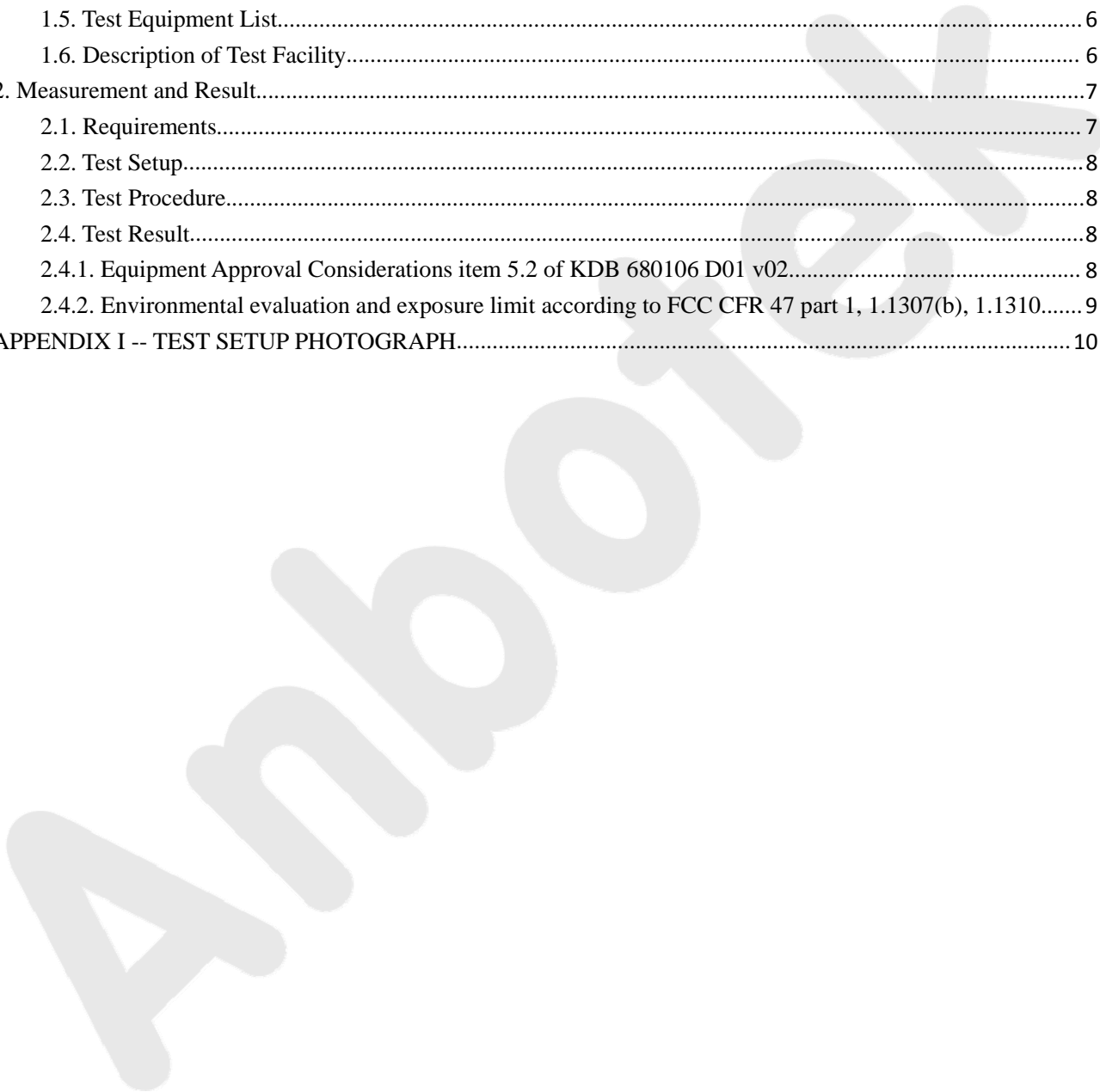
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Report Number : R0217090003W2
Date of Test : Sept. 06~12, 2017
Date of Report : Sept. 13, 2017

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TEST REPORT

Applicant : Anker Technology Co., Limited.
Manufacturer : SHENZHEN RUIJING INDUSTRIAL CO., LTD
Product Name : Powerport Wireless 5 Pad
Model No. : A2518
Trade Mark : **ANKER**
Rating(s) : Input: DC 5.0V 2A
Output: DC 5.0V 1A

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Seb.06-12, 2017



Winkey Wang

Prepared by :

(Tested Engineer / Winkey Wang)

Reviewer :

Tangcy T.

(Project Manager / Tangcy T)

Approved & Authorized Signer :

Tom Chen

(Manager / Tom Chen)

1. General Information

1.1. Client Information

| | | |
|--------------|---|--|
| Applicant | : | Anker Technology Co., Limited. |
| Address | : | Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong |
| Manufacturer | : | SHENZHEN RUIJING INDUSTRIAL CO., LTD |
| Address | : | C1 Building, Hengli Industrial Area, Xiakeng 1st Road No.168, Longgang Street, Longgang District, Shenzhen, Guangdong, China |

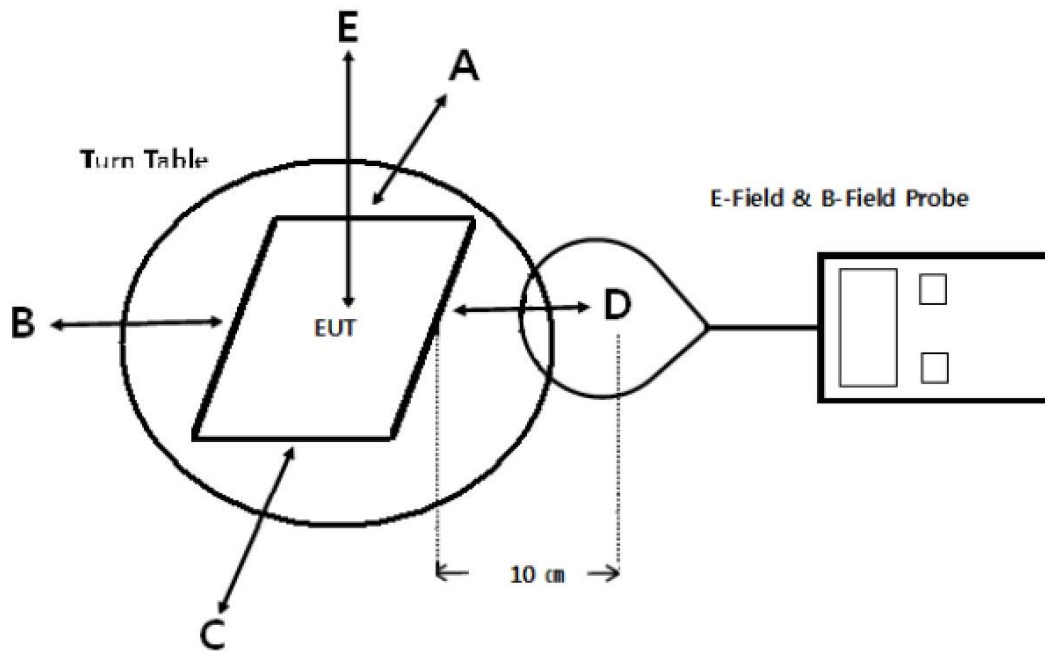
1.2. Description of Device (EUT)

| | | | |
|---|---|---|-----------------------------|
| Product Name | : | Powerport Wireless 5 Pad | |
| Model No. | : | A2518 | |
| Trade Mark | : | ANKER | |
| Test Power Supply | : | AC 120V, 60Hz for adapter/AC 240V, 60Hz for adapter | |
| Product Description | : | Operation Frequency: | 110-205KHz |
| | | Number of Channel: | 20 Channels |
| | | Modulation Type: | MSK |
| | | Antenna Type: | Inductive loop coil Antenna |
| | | Antenna Gain(Peak): | 0 dBi |
| Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. | | | |

1.3. Auxiliary Equipment Used During Test

| | | |
|--------------|---|--|
| Mobile Phone | : | Manufacturer: NOKIA |
| | | M/N: N920 S/N: 356355051634804 CE , FCC, DOC |
| Adapter | : | Manufacturer: SAMSUNG M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: 100-240V~50/60Hz 0.35A Output: DC 5V, 2000mA |

1.4. Description Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 10cm measured from the center of the probe(s) to the edge of the device.

1.5. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|----------------------|--------------|-----------|------------|--------------|---------------|
| 1 | Magnetic field meter | NARDA | ELT-400 | 423623 | May 27, 2017 | 1 Year |

1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Designation No.: CN5023

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation CN5023, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

2. Measurement and Result

2.1. Requirements

According to the item 5.2 of KDB 680106 D01v02:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- a) Power transfer frequency is less than 1 MHz
- b) Output power from each primary coil is less than 5 watts
- c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- d) Client device is inserted in or placed directly in contact with the transmitter
- e) The maximum coupling surface area of the transmit (charging) device is between 60 cm² and 400 cm².
- f) Aggregate leakage fields at 10 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

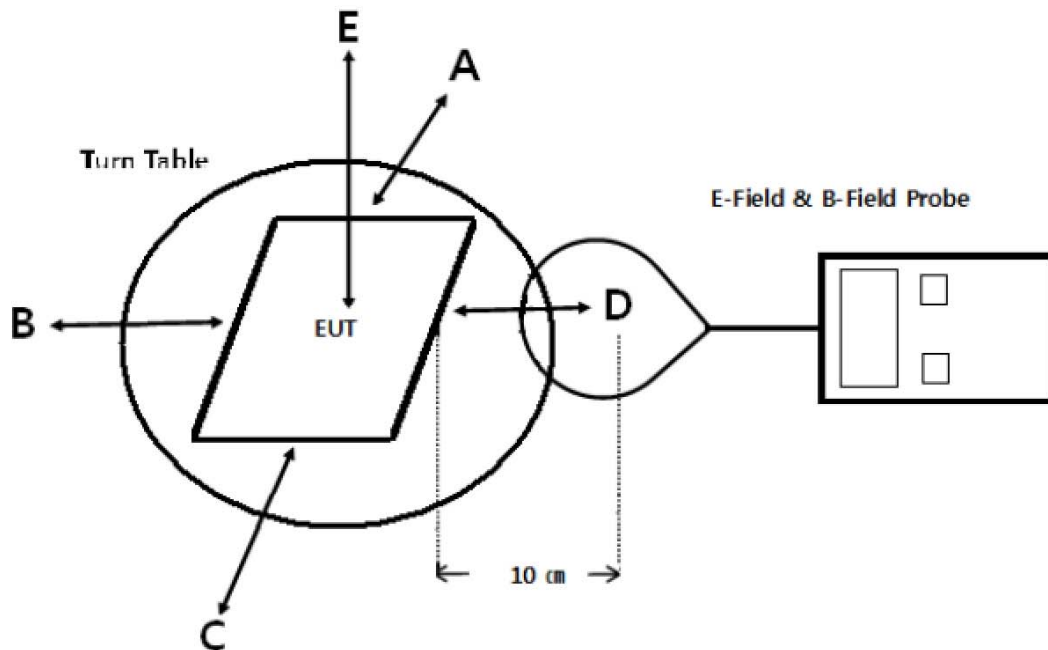
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | / | / | f/300 | 6 |
| 1500-100,000 | / | / | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.2. Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 10cm measured from the center of the probe(s) to the edge of the device.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (10 cm) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v02.

Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

2.4. Test Result

2.4.1. Equipment Approval Considerations item 5.2 of KDB 680106 D01 v02.

a) Power transfer frequency is less than 1 MHz

- The device operate in the frequency range from 110 KHz to 205 KHz

b) Output power from each primary coil is less than 5 watts

- The maximum output power of the primary coil is 5W.

c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils

- The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.

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

- Client device is placed directly in contact with the transmitter.

e) The maximum coupling surface area of the transmit (charging) device is between 60 cm² and 400 cm².

- The EUT coupling surface area : (Type : Circle)

$$\pi * \text{Radius of width}^2 \text{ (cm}^2\text{)} = 3.14 * 5.0 \text{ (cm)}^2 = 78.50\text{cm}^2 > 60 \text{ cm}^2$$

f) Aggregate leakage fields at 10cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 30% the MPE limit.

- The EUT E-Field Strength levels at 10 cm & The EUT H-Field Strength levels at 10 cm are less than 30% the MPE limit.

The test results please refer to the section 2.4.2

2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

| Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | Reference Limit (V/m) | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 110~ 205 | 1.23 | 1.19 | 1.26 | 1.27 | 1.33 | 1.22 | 184.2 | 614 |

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

| Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Test Position F | Reference Limit (A/m) | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 110~ 205 | 0.23 | 0.21 | 0.19 | 0.17 | 0.17 | 0.18 | 0.489 | 1.63 |

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

