

FCC TEST REPORT
for
Anker Technology Co., Limited

PowerTouch 5
Model No.: A2516

Prepared for : Anker Technology Co., Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok,
Kowloon, Hong Kong

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,
Nanshan District, Shenzhen, Guangdong, China
Tel: (86) 755-26066544
Fax: (86) 755-26014772

Report Number : R011610151Z
Date of Test : Oct. 11~ Nov. 07, 2016
Date of Report : Nov. 08, 2016

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TEST REPORT

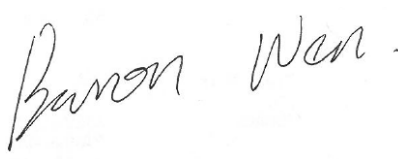
Applicant : Anker Technology Co., Limited
Manufacturer : Anker Technology Co., Limited
EUT : PowerTouch 5
Model No. : A2516
Serial No. : N.A.
Trade Mark : **ANKER**
Rating : Input DC 5V, 2A, Output DC 5V, 0.95A

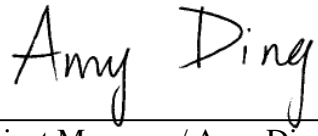
Measurement Procedure Used:
FCC Part1.1307:2016

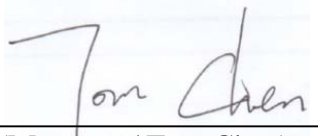
The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen 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 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 : Oct. 11~ Nov. 07, 2016

Prepared by : 
(Tested Engineer / Baron Wen)

Reviewer : 
(Project Manager / Amy Ding)

Approved & Authorized Signer : 
(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : PowerTouch 5

Model Number : A2516

Test Power Supply : DC 5V

Frequency : 110~ 205kHz

Antenna Type : Loop Antenna

Antenna Gain : 2dBi

Applicant : Anker Technology Co., Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

Manufacturer : Anker Technology Co., Limited
Address : Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

Factory : SHENZHEN RUIJING INDUSTRIAL CO., LTD.
Address : 5-6 Floor, Building 3, Minqi Industrial Area, Lishan Road, Nanshan Shenzhen, Guangdong, 518055 China

Date of receiver : Oct. 11, 2016

Date of Test : Oct. 11~ Nov. 07, 2016

1.2. Description of Test Facility

Adapter : Model No.: ETA-U90CBC
Manufacturer: SAMSUNG
Input: AC 100-240V, 50-60Hz, 0.35A
Output: DC 5V, 2A

Mobile Phone : Model No.: GALAXY S7 Edge G9350
Manufacturer: SAMSUNG

1.3. Description of Test Facility

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

FCC-Registration No.: 752021

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. Registration 752021, July 06, 2016.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC 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

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)
Ur = 4.3 dB (Vertical)
Conduction Uncertainty : Uc = 3.4dB

2. MEASURING DEVICE AND TEST EQUIPMENT

The following test equipments were used during test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic field meter	NARDA	ELT-400	423623	Apr. 17, 2016	1 Year

Anbotek

3. METHOD OF MEASUREMENT

3.1. Requirements :

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 D01v02: RF Exposure Wireless Charging Apps v02.

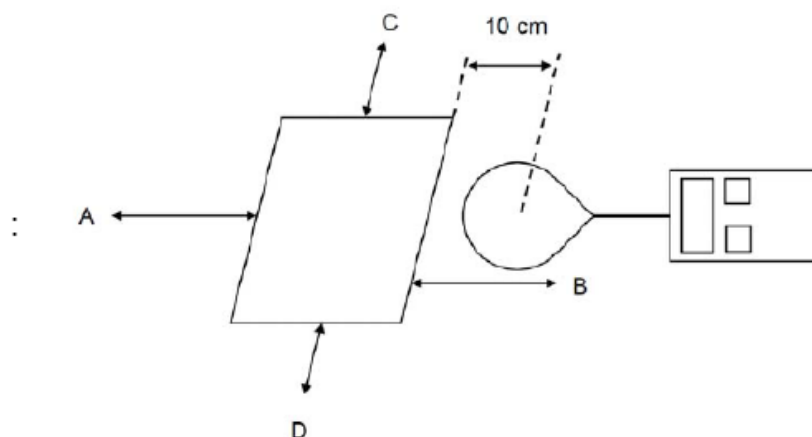
3.2. Test Procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (10cm) 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 680106D01v02.

3.3. Test Setup

Test Setup

Test setup:



3.4. Test Results

The EUT does comply with item 5.2 of KDB 680106 D01v02

a) Power transfer frequency is less than 1MHz

Yes; 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

Yes; the maximum output power of the primary coil is 4.75W < 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 able to detect and allow coupling only between individual pair of coils.

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

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

Yes; Client device is placed directly in contact with the transmitter.

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

Yes; The EUT field strength levels are 30% x MPE limit.

E and H field Strength

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	1.78	1.43	1.64	1.12	0.89	1.04	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	0.24	0.18	0.15	0.14	0.11	0.10	0.489	1.63

4. TEST PHOTO

4.1. Photo of EMF Test

