

Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 1 of 17

# FCC TEST REPORT

Client Name : Eggtronic Engineering Srl

Address : Via Giorgio Campagna 8 41126 Modena Italy

Product Name : Power Bar

Date : Dec. 17, 2019

# Shenzhen Anbotek Compliance Laboratory Limited

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

#### Code:AB-RF-05-a



FCC ID: 2ANP7CBWH30A Page 2 of 17

# Contents

| 1. G | eneral Information  | .4         |
|------|---|------------|
|      | 1.1. Client Information   | 4          |
|      | 1.2. Description of Device (EUT)  | .4         |
|      | 1.3. Auxiliary Equipment Used During Test   | 5          |
|      | 1.4. Test Equipment List  | .5         |
|      | 1.5. Measurement Uncertainty  | .5         |
|      | 1.6. Description of Test Facility   | 5          |
| 2. M | leasurement and Result  | 6          |
|      | 2.1. Requirements   | .6         |
|      | 2.2. Test Setup   | .7         |
|      | 2.3. Test Procedure   | .7         |
|      | 2.4. Test Result  | 7          |
|      | 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03                     | 7          |
|      | 2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(I | <b>)</b> , |
|      | 1.1310  | 9          |
| APP  | ENDIX I TEST SETUP PHOTOGRAPH   | .3         |
|      |   |            |

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# Code:AB-RF-05-a



FCC ID: 2ANP7CBWH30A Page 3

# TEST REPORT

Applicant Manufacturer

Shenzhen Pilot Technology Co., Ltd

**Product Name** Model No.

# Power Bar

CBWH30A

Trade Mark

# EGGTRONI

Eggtronic Engineering Srl

Rating(s)

Sh

Har Tel

Capacity: 10000mAh / 37Wh Total Output: 30W Max USB-C Input (PD3.0): 5V-20V 30W USB-C Output (PD3.0): 5V-20V 30W Wireless Output 1: 5W / 7.5W - Wireless Output 2: 5W / 7.5W Wireless for Apple Watch: 5W

#### Test Standard(s) FCC Part 1.1310, 1.1307(b) Test Method(s) KDB680106 D01 RF Exposure Wireless Charging Apps v03

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 writter approval of Shenzhen Anbotek Compliance Laboratory Limited.

| Date of Receipt  |                              | Nov. 08, 2019          |                         |
|--|------------------------------|------------------------|-------------------------|
| Date of Test   | to tek Anbor An              | Nov. 08~Dec. 05, 20    | 19 John Market          |
| tek unbotek complian   | Labore Ambore                | Doin MO                |                         |
| Prepared By  | Anborer                      | Anno atex J anborter   | Anbo, At bo             |
| poor Anbotel B   |                              | (Engineer / Dolly Mo   | )) Anbor An             |
| Andor not into the labo  | the motel Anbore             | Bibs thang             |                         |
| Reviewer * Appro   | wed* Ant otek ont            | This many              | botek Anbote            |
| Anbort All botek   | Anboten And stek             | (Supervisor / Bibc Zha | ing) Marken Marken      |
|  |                              | horest - I knowled     |                         |
| notek Anboten Anbo   |                              | for Chien              |                         |
| Approved & Authorized Sig  | ner                          | Ans stok subotek       | Anbo                    |
|  |                              | (Manager / Tom Che     | n) Anbote An            |
| Shenzhen Anbotek Compliance  | Laboratory Limited           | otek Anbote And        | Code:AB-RF-05-a         |
| Address: 1/F., Building D, Sogood Scie<br>Hangcheng Street, Bao'an District, She | enzhen, Guangdong, China.    | nboite All stek        | Hotline<br>400-003-0500 |
| Tel:(86) 755-26066440 Fax: (86) 75   | 55-26014772 Email: service@a | INDOTEK.COM            | www.anbotek.com         |



FCC ID: 2ANP7CBWH30A Page 4 of 17

# **1. General Information**

# 1.1. Client Information

| Applicant    | Eggtronic Engineering Srl   | 1001 |
|--------------|---|------|
| Address      | · Via Giorgio Campagna 8 41126 Modena Italy   | An   |
| Manufacturer | Shenzhen Pilot Technology Co., Ltd  |      |
| Address      | A1 Building, No.7 Shankeng Road, Shankeng Industrial Park, Shanxia<br>Community, Pinghu Street, Longgang District, Shenzhen, China. | e¥-  |
| Factory      | Shenzhen Pilot Technology Co., Ltd  | pote |
| Address      | A1 Building, No.7 Shankeng Road, Shankeng Industrial Park, Shanxia<br>Community, Pinghu Street, Longgang District, Shenzhen, China. | Ant  |

# 1.2. Description of Device (EUT)

| Product Name      | : | Power Bar                     | ak Anbotek Anbotek Anbotek Anbotek Anbote   |  |  |  |  |  |
|-------------------|---|-------------------------------|---|--|--|--|--|--|
| Model No.         | : | CBWH30A                       | otek Anbotek Anbotek Anbotek Anbotek Ant  |  |  |  |  |  |
| Trade Mark        | : |                               | Anbotek Anbotek Anbotek Anbotek Anbotek   |  |  |  |  |  |
| Test Power Supply | : | AC 120V, 60Hz for adapte      | Anbotek Anbotek Anbotek Anbotek Anbotek   |  |  |  |  |  |
| Test Sample No.   | : | 1-2-1(Normal Sample), 1-2     | 1-2-1(Normal Sample), 1-2-1(Engineering Sample)                                       |  |  |  |  |  |
|                   |   | Operation Frequency:          | Conventional wireless charging: 110.1-205KHz<br>Apple Watch wireless charging: 534KHz |  |  |  |  |  |
| Product           |   | Modulation Type:              | QLotek Anborek Anborek Anborek  |  |  |  |  |  |
| Description       |   | Antenna Type:                 | Inductive loop coil Antenna   |  |  |  |  |  |
|                   |   | Antenna Gain(Peak):           | 0 dBi   |  |  |  |  |  |
| pr pr v           |   | detailed features description | on, please refer to the manufacturer's specifications                                 |  |  |  |  |  |

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# Code:AB-RF-05-a

# 1.3. Auxiliary Equipment Used During Test

| Adapter | : Manufacturer: Anker Innovations Limited        |
|---------|--|
|         | M/N: A2013<br>Input: 100-240V 50-60Hz 0.7A       |
|         | Output: 3.6-6.5V== 3A/ 6.5-9V== 2A/ 9-12V== 1.5A |

# 1.4. Test Equipment List

| Þ.1 | Item | Equipment            | Manufacturer | Model No. | Serial No. | Last Cal.     | Cal. Interval |
|-----|------|----------------------|--------------|-----------|------------|---------------|---------------|
|     | 1    | Magnetic field meter | NARDA        | ELT-400   | 423623     | Dec. 24, 2018 | 1 Year        |
| 14  | 2    | E-Field Probe        | Narda        | EF0391    | Q15221     | Nov.17, 2017  | 3 Year        |
| 3   | 3    | H-Field Probe        | Narda        | HF3061    | Q15835     | Nov.17, 2017  | 3 Year        |

# 1.5. Measurement Uncertainty

| Radiation Uncertainty  | : | Ur = 3.9 dB (Horizontal) | nbotek Anbote An- |
|------------------------|---|--------------------------|-------------------|
|                        |   | Ur = 3.8 dB (Vertical)   | Anbotek Anbote An |
| N                      |   | nbotek Anboten Anu       | Anbotek Anbo, A.  |
| Conduction Uncertainty | : | Uc = 3.4 dB              | Anbotek Anbo h    |

# 1.6. Description of Test Facility

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

# FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 No. 184111, September 27, 2019.

# ISED-Registration No.: 8058A

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, March 07, 2019.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

#### Shenzhen Anbotek Compliance Laboratory Limited

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FCC ID: 2ANP7CBWH30A Page 6 of 17

# 2. Measurement and Result

# 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

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

1) Power transfer frequency is less that 1 MHz

2) Output power from each primary coil is less than or equal to 15 watts.

3) 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

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

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)

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.

| Frequency range Electric field strength<br>(MHz) (V/m) |                       | Magnetic field strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|--|-----------------------|----------------------------------|--|-----------------------------|
|  | (A) Limits for Occ    | upational/Controlled Ex          | posures                                |                             |
| 0.3-3.0  | 614                   | 1.63                             | *(100)                                 | 6                           |
| 3.0-30   | 1842/f                | 4.89/f                           | *(900/f <sup>2</sup> )                 | 6                           |
| 30-300   | 61.4                  | 0.163                            | 1.0                                    | 6                           |
| 300-1500   | 1                     | /                                | f/300                                  | 6                           |
| 1500-100,000   | 1                     | 1                                | 5                                      | 6                           |
|  | (B) Limits for Genera | l Population/Uncontrolle         | d Exposure                             |                             |
| 0.3-1.34   | 614                   | 1.63                             | *(100)                                 | 30                          |
| 1.34-30  | 824/f                 | 2.19/f                           | *(180/f <sup>2</sup> )                 | 30                          |
| 30-300   | 27.5                  | 0.073                            | 0.2                                    | 30                          |
| 300-1500   | 1                     | 1                                | f/1500                                 | 30                          |
| 1500-100,000   | 1                     | /                                | 1.0                                    | 30                          |

Limits For Maximum Permissible Exposure (MPE)

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).

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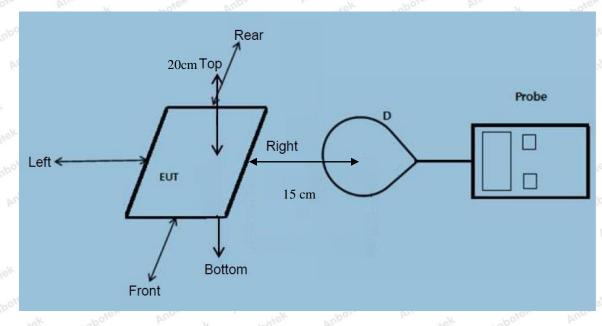
Code:AB-RF-05-a

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Anbotek Product Safety

# Report No.: SZAWW191108004-02FCC ID: 2ANP7CBWH30APage 7 of 17

# 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

# 2.3. Test Procedure

1) The RF exposure test was performed in anechoic chamber.

2) The measurement probe was placed at required test distance 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.(A is the right, B is the back, C is the left, D is the front, and E is the top.) 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

#### 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.b of KDB 680106 D01 v03.

- 1) Power transfer frequency is less that 1 MHz
  - Conventional wireless charger operated in the frequency range 110.1~205KHz;
  - Apple Watch wireless charger operated in the frequency range 534kHz;
- 2) Output power from each primary coil is less than 15 watts

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# Code:AB-RF-05-a



### FCC ID: 2ANP7CBWH30A Page 8 of 17

- The maximum output power of the primary coil of Conventional wireless charger is 7.5W.

- The maximum output power of the primary coil of Apple Watch wireless charger is 5W.

3) 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-- Conventional wireless charger.

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

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

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

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
 The EUT is a Mobile Power Pack with Power Bar

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.
Conducted the measurement with the required distance and the test results please refer to the section 2.4.2

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# Code:AB-RF-05-a



# Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 9 of 17

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

| Temperature: | 23.8°C   | Relative Humidity: | 54%                      |
|--------------|----------|--------------------|--------------------------|
| Pressure:    | 1012 hPa | Test Voltage:      | AC 120V 60Hz for adapter |

All modes of Conventional wireless charger, Apple Watch wireless charger, Type C have been tested, only worst case reported in the report.

Conventional wireless charging:

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| Dat      |           |           | 0        | 1.1        | 1.0       | Dec.             | 10 M   |         |
|----------|-----------|-----------|----------|------------|-----------|------------------|--|---------|
| Potton   | Frequency | Test      | Test 📈   | Test       | Test      | Test             | Reference  | Limits  |
| Battery  | Range     | Position  | Position | Position   | Position  | Position         | Limit  | Test    |
| power    | (KHz)     | A         | В        | Crek       | D         | e <sup>k</sup> E | ov <sup>or</sup> (V/m) <sub>se</sub> vo <sup>o</sup> | (V/m)   |
| hoon P   | nbotek    | Anboton   | Anumotek | Anbore     | Anbo      | -sek             | nbotek pr  | boton   |
| 1%       | 110.1~205 | 0.35      | 0.32     | 0.27       | 0.49      | 0.91             | 307  | 614     |
| Anbor    |           | Anbote    | Ano      | otek       | nbotek    | Anbor            | Ausobotek  | Anboter |
| Aupor    | tek abot  | sk Anbr   | Non Pu   | hotek      | Anbotek   | Anbo             | - potek  | Anbo    |
| 50%      | 110.1~205 | 1.50      | 1.33     | 1.26       | 1.38      | 1.55             | 307  | 614     |
| botek A  |           | obotek    | Anboten  | And        | Anbot     | ek Anb           | sek pi   | potek   |
| Anbotek  | Anbou     | abotek    | Anboro   | K Arnu     | rek An    | potek p          | upo, ek  | nbotek  |
| 99%      | 110.1~205 | 2.29      | 2.12     | 2.14       | 2.20      | 2.07             | 307  | 614     |
| Anbotek  |           | K abo     | lek Ant  | oten Al    | 10° Lotek | Anbotek          | Anboic   | An      |
| ak Anbo  | ek Anbo   | stek pr   | potek    | unbolou ok | Annotek   | Anbotet          | Anbo   | N not   |
| Stand-by | 110.1~205 | 0.45      | 0.39     | 0.70       | 0.48      | 0.53             | 307  | 614     |
| hotek    | Anbotek F | nbo. stek | Anbotek  | Anboter    | Ant       | otek A           | botek Ant  | otek.   |

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#### Code:AB-RF-05-a



# Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 10 of 17

| Battery<br>power | Frequency<br>Range<br>(KHz) | Test<br>Position<br>A | Test<br>Position<br>B | Test<br>Position<br>C | Test<br>Position<br>D | Test<br>Position<br>E | Reference<br>Limit<br>(A/m) | Limits<br>Test<br>(A/m) |
|------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|-------------------------|
| tek Ant          | lotek Aupo                  | *ek                   | obotek                | Anboto                | Annotek               | Anbote                | Aupo.                       | ek Pr                   |
| 1%               | 110.1~205                   | 0.047                 | 0.045                 | 0.056                 | 0.042                 | 0.060                 | 0.815                       | 1.63                    |
| 100 hotek        | Anbotek                     | Anboic                | Allenobotek           | Anbote                | K AND                 | wotek p               | nbotek Ar                   | bol- *ek                |
| Anu hotek        | Anbotek                     | Anbor                 | K sobo                | iek Anb               | oto A                 | hotek                 | Anbotek                     | Anbo                    |
| 50%              | 110.1~205                   | 0.23                  | 0.51                  | 0.38                  | 0.39                  | 0.44                  | 0.815                       | 1.63                    |
| Anb              | otek Anbot                  | ek Anb                | A No.                 | obotek                | Anboten               | Anbework              | Anbotek                     | Anb                     |
| en Ann           | Lotek An                    | potek P               | inbo, sek             | Anobotek              | Anbote                | Ann No                | rek Anbot                   | ek l                    |
| 99%              | 110.1~205                   | 0.40                  | 0.56                  | 0.53                  | 0.35                  | 0.58                  | 0.815                       | 1.63                    |
|                  | Anov                        | Anbotek               | Anbois                | ek pir                | stek Ar               | poten Ar              | 10 - otek                   | Anbotek                 |
| Anboren          | Androtek                    | Anbotel               | Aupo                  | rek .                 | obotek                | Anboren               | Anotok                      | Anbote                  |
| Stand-by         | 110.1~205                   | 0.22                  | 0.18                  | 0.29                  | 0.36                  | 0.34                  | 0.815                       | 1.63                    |
| K Anbo           | ten Anbo                    | Het N                 | nbotek                | Anbois                | All notek             | Anboten               | Anb                         | ×                       |

### H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Remark: All the conditions have been tested. It is found that 7.5W is the worst mode, and the data in the report only reflects the worst mode.

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# Code:AB-RF-05-a



FCC ID: 2ANP7CBWH30A Page 11 of 17

Apple Watch wireless charging:

F-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

| Doll 1   | 1010       |           |          | 1.1      | 0.00     |          |            |          |
|----------|------------|-----------|----------|----------|----------|----------|------------|----------|
| Battery  | Frequency  | Test      | Test     | Test     | Test     | Test     | Reference  | Limits   |
| 1000     | Range      | Position  | Position | Position | Position | Position | Limit      | Test     |
| power    | (KHz)      | A A       | B        | AnbeCk   | AnD      | E        | (V/m)      | (V/m)    |
| wotek I  | inbotek Ar | loote .ek | an-      | Anbotek  | Anbo     | rek ant  | potek Anbo | No PI    |
| 1%       | 534        | 0.34      | 0.32     | 0.28     | 0.46     | 0.95     | 307        | 614      |
| Anbort   | Althopotek | Anboten   | And ho   | iek Anb  | otek pr  | ibon-    | Annbotek   | Anboten  |
| Anbo     | k anbotek  | Anbore    | PUL      | potek I  |          | Anbo     | Anbotek    | Anboro   |
| 50%      | 534        | 1.56      | 1.27     | 1.33     | 1.28     | 1.49     | 307        | 614      |
| hek Anb  | stek An    | potek p   | nboten   | And      |          | Anbor    | stek pibo  | ek por   |
| nbotek P | nbunotek   | anbotek   | Anboro   | Ant      | Anbot    | en Aup   | wotek pr   | botek    |
| 99%      | 534        | 2.21      | 2.00     | 2.17     | 2.35     | 2.06     | 307        | 614      |
| Anbotek  | Anbort     | Annbotel  | Anbot    | and And  | hotek    | Anbotek  | Anbortek   | Annbotek |
| Anbotet  | Anbo       | sk Anbo   | hek An   | port A   |          | Anboten  | Anbu       | Anbote   |
| Stand-by | 534        | 0.44      | 0.39     | 0.75     | 0.43     | 0.58     | 307        | 614      |
| botek A  | ibotek Ant | o. A      | anbotek  | Anbote   | Ann      | sk anbr  | stek Anbo. | ptek pi  |

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# Code:AB-RF-05-a



# Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 12 of 17

| Botton   | Frequency  | Test      | Test      | Test       | Test      | Test      | Reference | Limits   |
|----------|------------|-----------|-----------|------------|-----------|-----------|-----------|----------|
| Battery  | Range      | Position  | Position  | Position   | Position  | Position  | Limit     | Test     |
| power    | (KHz)      | А         | otek B    | C          | D         | Entek     | (A/m)     | (A/m)    |
| ek Ant   | otek Anbo  | stek      | nbotek    | Anboto     | Anstotek  | Anbote    | Anbo      | iek h.   |
| 1%       | 534        | 0.047     | 0.048     | 0.052      | 0.039     | 0.051     | 0.815     | 1.63     |
| hotek    | Anbotek    | Anboretek | Annobotek | Anbote     | And And   | hotek p   | nbotek Ar | portek   |
| Anthotek | Anbotek    | Anbo      | r nabo    | iek Ant    | oto Al    | botek     | Anbotek   | Anburgte |
| 50%      | 534        | 0.25      | 0.54      | 0.36       | 0.43      | 0.40      | 0.815     | 1.63     |
| And h    | otek Anbot | ek Anb    | o. p      | abotek     | Anboten   | And hotek | Anbotek   | Anb      |
| NUT AUT  | botek An   | potek P   | nbo otek  | h. hnbotek | Anbore    | ek An-    | rek Anbot | en p     |
| 99%      | 534        | 0.39      | 0.50      | 0.48       | 0.36      | 0.54      | 0.815     | 1.63     |
| Anboten  | Andrek     | Anbotek   |           | ek sib     | stek An   | poter Ar  | hotek     | Anbotek  |
| Anboten  | Antobotek  | Anbotet   | Aupo      | dek pi     | nbotek    | Anbore    | Ann hotek | Anbotek  |
| Stand-by | 534        | 0.16      | 0.19      | 0.24       | 0.35      | 0.38      | 0.815     | 1.63     |
| K anbo   | ter Anbo   | Lett      | botek     | Anboit     | All Lotek | anboten   | Anbe      | 14       |

# H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

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FCC ID: 2ANP7CBWH30A Page 13 of 17

# **APPENDIX I -- TEST SETUP PHOTOGRAPH**



Photo of MPE Measurement



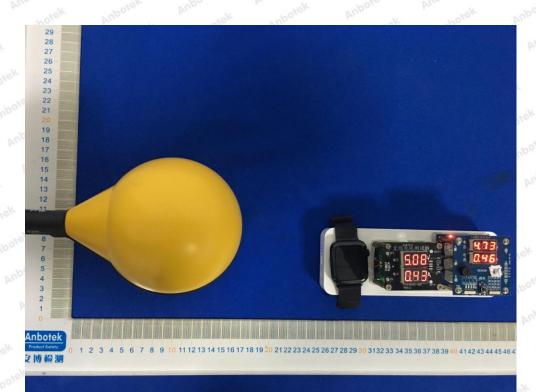
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#### Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 14 of 17



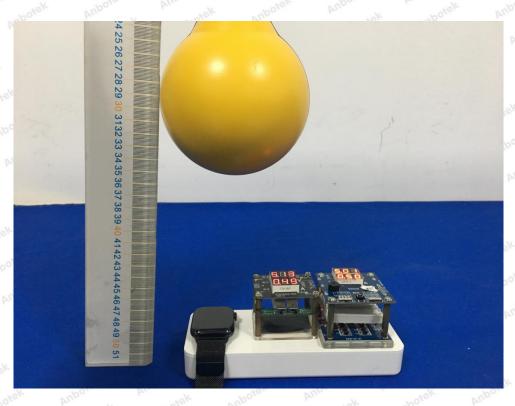
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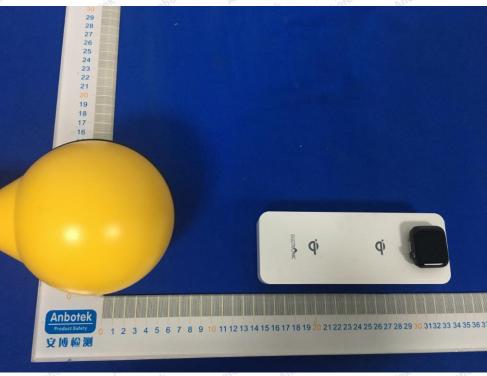
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Apple Watch wireless charging



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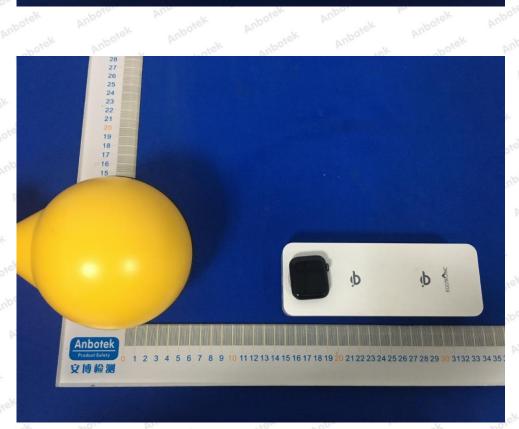
#### Code:AB-RF-05-a

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Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 16 of 17

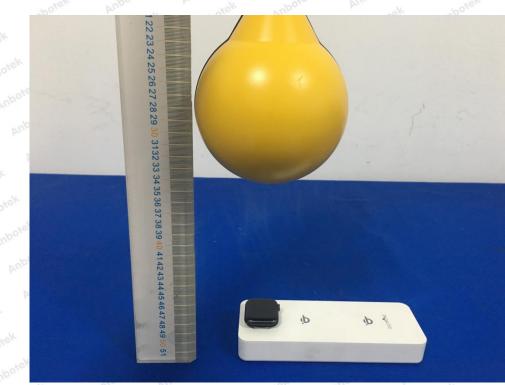


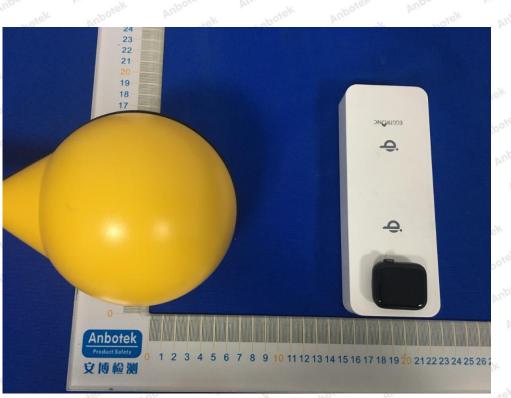
----- End of Report -----Shenzhen Anbotek Compliance Laboratory Limited

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Report No.: SZAWW191108004-02 FCC ID: 2ANP7CBWH30A Page 17 of 17

