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# FCC TEST REPORT

Client Name

Sariana LLC

Address

7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A.

Product Name : USB-C 2-in-1 Wireless Charging Dock

Date : Mar. 03, 2020

## 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

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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

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# TEST REPORT

| Applicant     | Anbore  | Sariar | na LLC            |        |        |        |         |          |
|---------------|---------|--------|-------------------|--------|--------|--------|---------|----------|
| Manufacturer  | Anbore  | Sariar | na LLC            |        |        |        |         |          |
| Product Name  | Aab     | USB-0  | C 2-in-1          | Wirel  | ess C  | hargir | ng Doc  | k otek   |
| Model No.     | iek : P | ST-U   | C2WCD             | И, ST  | -UC2   | WCD    | S       |          |
| Trade Mark    | botek   |        | ΛT                |        | С      | Н      | NP Jek  |          |
| Rating(s)     | Anbotek |        | DC 5V,<br>Watch N |        | etic C | harge  | r Outpi | ut: 2.5\ |
|               |         | AirPo  | ds Charg          | ger Ou | utput: | 5W     |         |          |
| Toot Ctondard | NA N    | nbotek | Anbo              | -May   | pa.    | bote   |         |          |

| Test Standard(s) | -P | 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 written approval of Shenzhen Anbotek Compliance Laboratory Limited.

| oten Anbo kuntek Anbort An  | aboten Anbo                    |
|---|--------------------------------|
| Date of Receipt   | Jan. 07, 2020                  |
| Date of Test  | Jan. 07~Feb. 21, 2020          |
| Compliance Lago   |                                |
| Att set show a set show and   | Ann Anboten Anbo               |
| Approved  | Dolly MO                       |
| Product Safety  | stek snoten And                |
| Prepared By   | nbo A. Anbote                  |
| ster Andrew K Z and Ante Ante stek                                    | (Engineer / Dolly Mo)          |
| * Approved *  | hi wotek bybote Ant rek        |
| nbo ok hotek Ann An otek Anboten                                      | Bib thang                      |
| Anbote Ant tek abotek Anbo  | and the second second          |
| Reviewer  | at hotek anton An              |
|   | (Supervisor / Bibo Zhang)      |
|   | notek 1 200 All stek           |
|   | for Chien                      |
| Approved & Authorized Signer  | Anboit new otek Anboten        |
|   |                                |
|   | (Manager / Tom Chen)           |
|   |                                |
| Shenzhen Anbotek Compliance Laboratory Limited                        | Code:AB-R                      |
| Address: 1/F., Building D. Sogood Science and Technology Park, Sanwei | Community, Market More Hotline |

Add Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com F-05-a

400-003-0500 www.anbotek.com



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## 1. General Information

## 1.1. Client Information

| Applicant    | Sariana LLC   | Anbo  |
|--------------|---|-------|
| Address      | 7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A. | P.C   |
| Manufacturer | Sariana LLC   | a t   |
| Address      | 7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A. | hotek |
| Factory      | : Sariana LLC   | Anbot |
| Address      | 7365 Mission Gorge Road Suite G, San Diego, CA 92120 U.S.A. | Ant   |

## 1.2. Description of Device (EUT)

| Product Name      | : | USB-C 2-in-1 Wireless C   | harging Dock  |
|-------------------|---|---|---|
| Model No.         | : | ST-UC2WCDM, ST-UC2<br>(Note: All samples are the<br>we prepare "ST-UC2WCI | e same except the model number & appearance, so                             |
| Trade Mark        | : | S 🖊 T E C   | H Anbotek Anbotek Anbotek Anbotek   |
| Test Power Supply | • | AC 120V, 60Hz for adapt   | er Anbotek Anbotek Anbotek Anbotek Anbotek                                  |
| Test Sample No.   | : | 1-2-1(Normal Sample), 1-  | -2-1(Engineering Sample)  |
|                   |   | Operation Frequency:  | Apple Watch Magnetic Charger: 110.1-205KHz<br>AirPods Charger: 110.1-205KHz |
| Product           |   | Modulation Type:  | FSK And Andrew Andrew Andrew  |
| Description       | - | Antenna Type:   | Inductive loop coil Antenna   |
|                   |   | Antenna Gain(Peak):   | 0 dBi unbotek Anbore ek Anotek Anb  |

or the User's Manual.

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## 1.3. Auxiliary Equipment Used During Test

|             |   | Product: AppleMacBook                                   |
|-------------|---|---|
|             |   | M/N: A1708  |
|             |   | CMIIT ID:2016AJ5746                                     |
| Notebook    | : | Input Rating: 20.3V/3A                                  |
|             |   | Adapter:  |
|             |   | Input: 100-240V, 50-60HZ, 1.5A                          |
|             |   | Output: 20.3V/3A (USB PD) or 9V/3A(USB PD) or 5.2V/2.4A |
| Apple Watch |   | Manufacturer: Apple                                     |
| Airpods     | : | Manufacturer: Apple                                     |

### 1.4. Test Equipment List

| Item   | Equipment            | Manufacturer | Model No. | Serial No. | Last Cal.     | Cal. Interval |
|--------|----------------------|--------------|-----------|------------|---------------|---------------|
| Antore | Magnetic field meter | NARDA        | ELT-400   | 423623     | Dec. 23, 2019 | 1 Year        |
| 2010   | E-Field Probe        | Narda        | EF0391    | Q15221     | Nov.17, 2017  | 3 Year        |
| 3      | H-Field Probe        | Narda        | HF3061    | Q15835     | Nov.17, 2017  | 3 Year        |

## 1.5. Measurement Uncertainty

| Radiation Uncertainty  | : | Ur = 3.9 dB (Horizontal)                  | V    |
|------------------------|---|---|------|
|                        |   | Ur = 3.8 dB (Vertical)                    | 0.   |
|                        |   | are Alle botek Anbotek Anbotek Anbotek An | porc |
| Conduction Uncertainty | : | Uc = 3.4 dB                               | Aup  |

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## 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

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## 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<br>(MHz) | zy range Electric field strength Magnetic field strength I<br>Iz) (V/m) (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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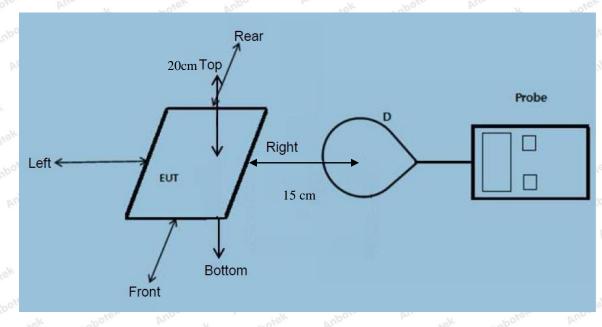
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## 2.2. Test Setup



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
  - The device operate in the frequency range 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
- The maximum output power of the primary coil of Apple Watch Magnetic Charger is 2.5W.

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- The maximum output power of the primary coil of AirPods 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.

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

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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 |

Apple Watch Magnetic Charger:

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

|           |           | 100      | 0                      |          |           |           | 107        |          |
|-----------|-----------|----------|------------------------|----------|-----------|-----------|------------|----------|
| Anbote    | Frequency | Test     | Test                   | Test     | Test      | Test      | Reference  | Limits   |
| Battery   | Range     | Position | Position               | Position | Position  | Position  | Limit      | Test     |
| power     | (KHz)     | A A Anto | ote <sup>lk</sup> B pr | С        | D         | ArBoten   | (V/m)      | (V/m)    |
| tek Anb   | Sten Aup  | otek p   | nbotek                 | Anbois   | Autobotek | Anborr    | Ano ho     | ek Ar    |
| 1%        | 110.1~205 | 0.34     | 0.37                   | 0.25     | 0.43      | 0.94      | 307        | 614      |
| nbotek    | Anboten   | Anotek   | Anbotek                | Aupor    | rek pi    | potek     | inboten Ar | p- notek |
| h. abotek | Anbote    | Anubotel | Anbot                  | ek Anb   | dek h.    | nbotek    | Anbore     | Anshotek |
| 50%       | 110.1~205 | 1.59     | 1.38                   | 1.26     | 1.32      | 1.56      | 307        | 614      |
| ek nbc    | tek Anbot | And And  | hotek                  | Anbotek  | Anbor     | Anobote   | Anboten    | K AND    |
| stek p    | botek Ant | pote A   | nu hotek               | Anbotek  | Anbo      | ek nab    | otek Anbot | An       |
| 99%       | 110.1~205 | 2.25     | 2.12                   | 2.11     | 2.27      | 2.03      | 307        | 614      |
|           | Amobotek  | Anboten  | Anb                    | k Anbo   | rek Ant   | por p     | abotek     | Anboten  |
| Anboursek | An abotek | Anboter  | Anu                    | otek Al  | tootek    | Anbo, tek | p. abotek  | Anboro   |
| Stand-by  | 110.1~205 | 0.48     | 0.30                   | 0.74     | 0.45      | 0.55      | 307        | 614      |
| ak Aupo   | stek pi   | otek Ar  | boter                  | Lotek    | Anbotek   | Anboi     | ek nbot    | K Ant    |

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| n-riela Si       | trength at 15               | s cm surro            | bunding th            | e EUT and             | a 20cm ac             | pove the to           | p surface of                | the EU                  |
|------------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|-------------------------|
| 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) |
| iek ont          | otek Anbe                   | rek bros              | botek                 | Anbotok               | Anbo                  | Anbote                | Anbore                      | .ek                     |
| 1%               | 110.1~205                   | 0.049                 | 0.053                 | 0.048                 | 0.042                 | 0.068                 | 0.815                       | 1.63                    |
| hotek            | Anbotek                     | Anbor                 | Arnobotek             | Anbote                | Anu Anu               | hotek p               | nbotek Ar                   | bo, stek                |
| Anthotek         | Anbotek                     | Anbo                  | r nibo                | lok Anb               | ore A                 | botek                 | Anbotek                     | Anbu                    |
| 50%              | 110.1~205                   | 0.24                  | 0.57                  | 0.30                  | 0.45                  | 0.46                  | 0.815                       | 1.63                    |
| An.              | stek Anbo                   | en Aup                | - deter               | anbotek               | Anbore                | All                   | Anboten                     | Anb                     |
| rek bu           | botek Ar                    | poten p               | ind" wotek            | Anbotek               | Anboi                 | ek sto                | rek Anbot                   | er P                    |
| 99%              | 110.1~205                   | 0.41                  | 0.55                  | 0.57                  | 0.36                  | 0.52                  | 0.815                       | 1.63                    |
| Anboro           | All hotek                   | Anboten               | Anbo                  | ek nob                | stek pr               | port A                | hotek                       | Anboter                 |
| Anbore           | Ann botek                   | Anbotel               | Anbo                  | stek h                | nbotek                | Anboro                | Antobotek                   | Anbotel                 |
| Stand-by         | 110.1~205                   | 0.28                  | 0.16                  | 0.33                  | 0.37                  | 0.31                  | 0.815                       | 1.63                    |
| K pinbo          | no Ano                      | otek b                | nbotek                | Anburgek              | nbotek                | Anbore                | And wot                     | K Di                    |

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

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## AirPods Charger:

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

| 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>(V/m) | Limits<br>Test<br>(V/m) |
|------------------|-----------------------------|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------------|-------------------------|
| 1%               | 110.1~205                   | 0.35                              | 0.34                  | 0.21                  | 0.47                  | 0.98                  | 307                         | 614                     |
| 50% pro-         | 110.1~205                   | <sup>ok</sup> 1.50 m <sup>b</sup> | 1.32                  | 1.22                  | 1.36                  | 1.59                  | 307                         | 614                     |
| 99%              | 110.1~205                   | 2.23                              | 2.18                  | 2.15                  | 2.20                  | 2.04                  | 307                         | 614                     |
| Stand-by         | 110.1~205                   | 0.42                              | 0.31                  | 0.76                  | 0.47                  | 0.58                  | 307                         | 614                     |

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| Battery   | Frequency  | Test     | Test     | Test       | Test     | Test     | Reference | Limits  |
|-----------|------------|----------|----------|------------|----------|----------|-----------|---------|
| .00-      | Range      | Position | Position | Position   | Position | Position | Limit     | Test    |
| power     | (KHz)      | A        | otek B   | C          | And D.   | Entek    | (A/m)     | (A/m)   |
| ek Ant    | otek Anbo  | stek     | nbotek   | Anboro     | Ansbotek | Anbote   | Anbo      | ek M    |
| 1%        | 110.1~205  | 0.041    | 0.057    | 0.062      | 0.045    | 0.064    | 0.815     | 1.63    |
| hotek     |            | Anbor    |          | Anbote     | And And  | hotek p  | nbotek Ar | bor     |
| Anthotek  | Anbotek    | Anbo     | r nibo   | rek Anb    | ore pr   | botek    | Anbotek   | Anbo    |
| 50%       | 110.1~205  | 0.25     | 0.54     | 0.33       | 0.49     | 0.48     | 0.815     | 1.63    |
| Ant       | otek Anbot | ek Anb   | erek p   | abotek     | Anbote.  | And      | Anbotek   | Anb     |
| Plan Plan |            | potek P  | nbo      | A. Anbotek | Anbore   | An-      | rek Anbot | ew I    |
| 99%       | 110.1~205  | 0.38     | 0.53     | 0.59       | 0.34     | 0.50     | 0.815     | 1.63    |
| Anboten   |            | Anbotek  |          | ek sb      | stek An  | poter Ar | 10 hotek  | Anbotek |
| Anboten   | Ann hotek  | Anbotet  | Aupo     | del pri    | nbotek   | Anbore   | Ann hotek | Anbote  |
| Stand-by  | 110.1~205  | 0.26     | 0.12     | 0.37       | 0.30     | 0.35     | 0.815     | 1.63    |
| 6 anbo    |            | -ot      | botek    | Anboit     | p.i.     | Anboten  | Ano       | No      |

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

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

Photo of MPE Measurement Apple Watch Magnetic Charger

#### 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

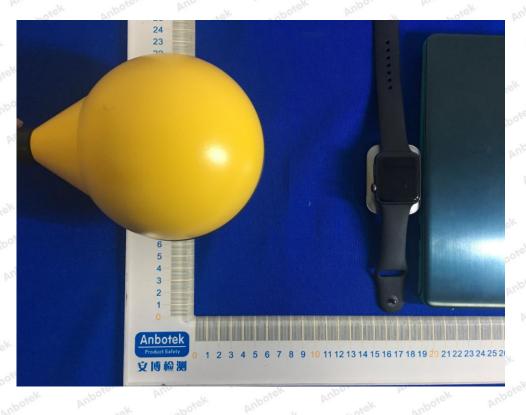
Hotline 400-003-0500 www.anbotek.com

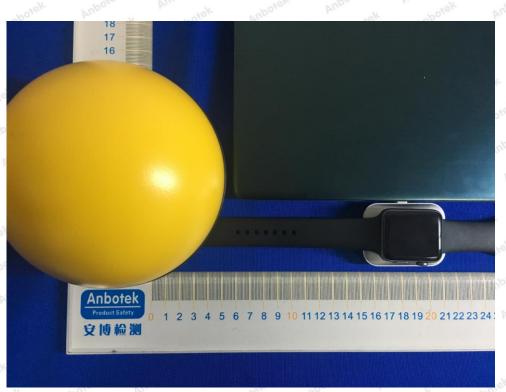
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

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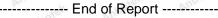




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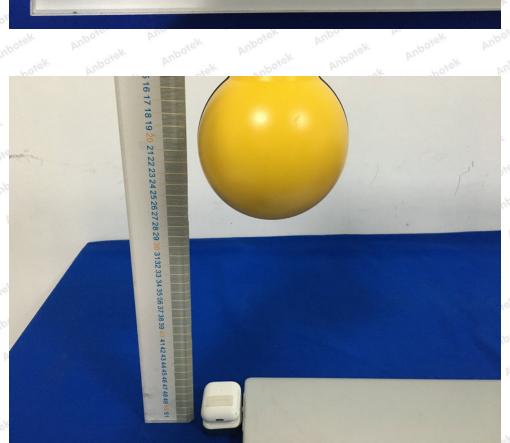


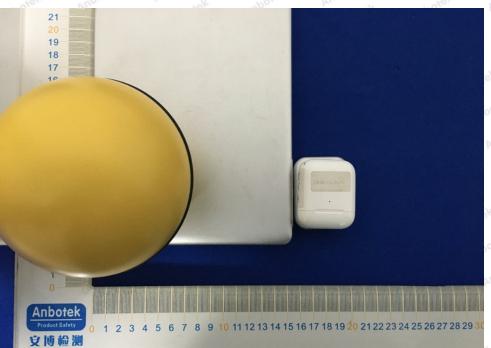
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