



# RF Exposure Evaluation Report

## 1. Product Information

|                          |  |
|--------------------------|--|
| FCC ID:                  | 2A6YW-QUAD   |
| Number of tested samples | 2  |
| Sample number            | A051222191-1(Engineer sample), A051222191-2(Normal sample)   |
| Product Name             | Wireless charger   |
| Model Number             | QUAD   |
| Power Supply             | For AC Adapter Model: TAA0361200300HU<br>Input: AC 100-240V, 50/60Hz, 0.9A<br>Output: DC 12V, 3000mA |
| Modulation Type          | Continuous Wave  |
| Frequency Range          | 111.0~205.0KHz   |
| Antenna Type             | Coil Antenna   |
| Hardware version         | /  |
| Software version         | /  |
| Accessories              | /  |
| Exposure category        | General population/uncontrolled environment  |
| EUT Type                 | Production Unit  |
| Device Type              | Mobile Device  |

## 2. Evaluation Method

Per KDB 680106 D01 Section 3. RF Exposure Requirements;

- 1) Consumer wireless power transfer devices approved under Part 18 in some cases have to demonstrate compliance with RF exposure requirements. The potential for exposure must be assessed according to the operating configurations of the wireless system and the exposure conditions of users and bystanders. RF exposure must be evaluated with the client device(s) being charged by the primary at maximum output power. The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Section 2.1091 and Section 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to 1.1307 (c) and (d) of the FCC rules.
- 2) Based on the design and implementation of the power transfer application, it must be clearly identified if mobile or portable RF exposure conditions apply. Devices that are installed to provide separation of at least 20 cm from users and bystanders may qualify for mobile exposure conditions. For some conditions where users and bystanders may be exposed at closer than 20 cm, section 2.1091(d) (4) of the rules may apply.
- 3) 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



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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. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

- 4) Portable exposure conditions from 100 kHz to 6 GHz are determined with respect to SAR requirements. Existing SAR systems and test procedures are generally intended for measurements above 100 MHz. While numerical modeling can be an alternative, the constraints of substantial computational resources at low frequencies could introduce further limitations. Under these circumstances, including operations below 100 kHz, the Commission may consider a combination of analytical analysis, field strength, radiated and conducted power measurements, in conjunction with some limited numerical modeling to assess compliance.
- 5) Depending on the operating frequency, existing SAR and MPE measurement procedures may be adapted to evaluate wireless power transfer devices for compliance with respect to mobile or portable exposure conditions. If the grantee or its test lab have any questions regarding RF exposure evaluation they should contact the FCC Laboratory with sufficient system operating configuration details to determine if RF exposure evaluation is necessary and, if required, how to apply specific test procedures. Below 100 MHz, when SAR testing is required and the device is operating at close proximity to persons, information on device design, implementation, operating configurations, exposure conditions of users and bystanders are needed to determine the evaluation and testing requirements. In addition, the influence of nearby objects may also need consideration according to the wireless power transfer system implementation; for example, the effects of placing the device, its coils or radiating elements on or near metallic surfaces

### 3. Evaluation Limit

#### 3.1 Refer evaluation method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 680106 D01 RF Exposure Wireless Charging Apps v03](#): RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

[FCC CFR 47 part 18.107](#): Industrial, Scientific, and Medical Equipment



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### 3.2 Limit

#### Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 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                       |
| 300-1,500                                   | /                            | /                            | f/300                               | 6                       |
| 1,500-100,000                               | /                            | /                            | 5                                   | 6                       |

#### Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                                | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|------------------------------|------------------------------|-------------------------------------|-------------------------|
| 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 <sup>2</sup>                 | 30                      |
| 30-300  | 27.5                         | 0.073                        | 0.2                                 | 30                      |
| 300-1,500   | /                            | /                            | f/1500                              | 30                      |
| 1,500-100,000                                       | /                            | /                            | 1.0                                 | 30                      |

F=frequency in MHz

\*=Plane-wave equivalent power density

According to FCC KDB 680106 D01 Section 3. RF Exposure Requirements clause 3 the Emission-Limits in the frequency range from 100 KHz to 300 KHz should be assessed versus the limits at 300 KHz in Table 1 of CFR 47 – Section1.310 as following (measured distance shall be 15cm from the center of the probe to the edge of the device):

|                   | E-Field                         | */*                               | B-Field |
|-------------------|---------------------------------|-----------------------------------|---------|
| Frequency         | V/m                             | A/m                               | uT      |
| 0.3 MHz – 3.0 MHz | 614                             | 1.613                             | 2.0     |
| 3.0 MHz – 30 MHz  | 824/f (=27.5 <sub>30MHz</sub> ) | 2.19/f (=0.073 <sub>30MHz</sub> ) | --      |

A KDB inquire was required to determine/confirm the applicable limits below 100 KHz.



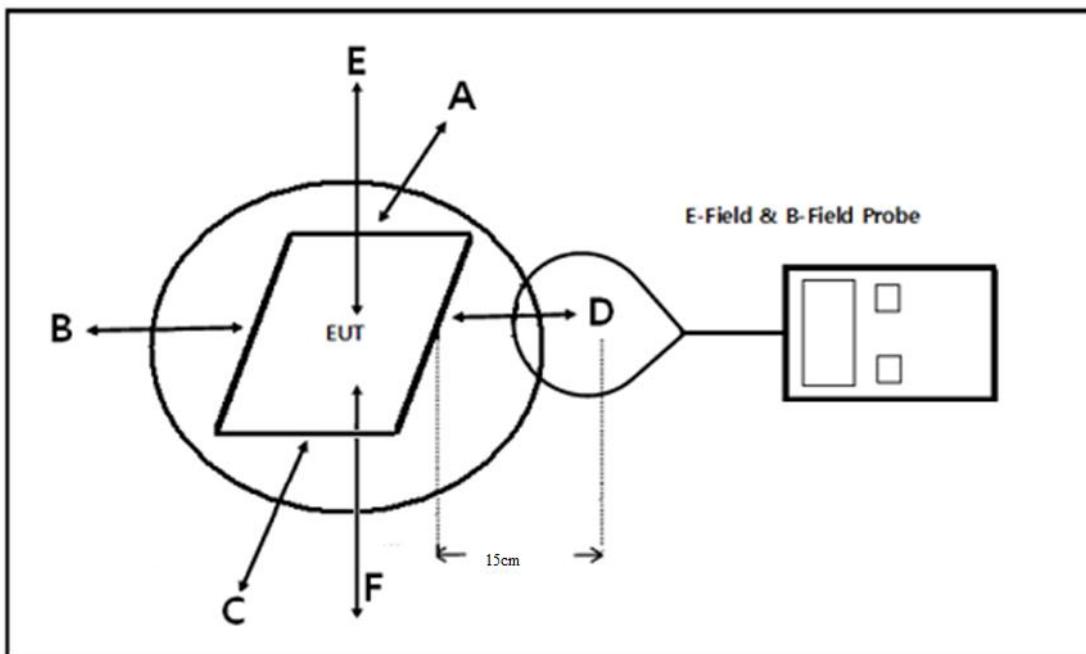
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#### 4. Test Setup Diagram



#### 5. Test Equipment

| Equipment             | Manufacturer | Model   | Serial no. | Calibrated date | Calibrated Due |
|-----------------------|--------------|---------|------------|-----------------|----------------|
| Exposure Level Tester | Narda        | ELT-400 | N-0713     | 2021-06-21      | 2022-06-20     |
| B-Field Probe         | Narda        | ELT-400 | M-1154     | 2021-06-21      | 2022-06-20     |

#### 6. Measurement Procedure

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (15cm and 20cm) which is between the edges of the charger and the geometric center of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT were measured according to the dictates of KDB 680106D01v03.





## 7. Equipment Approval Considerations

The EUT does comply with item 5.2 of KDB 680106 D01v03 as follows table;

| Requirements of KDB 680106 D01  | Yes / No | Description   |
|---|----------|---|
| Power transfer frequency is less than 1 MHz   | Yes      | The device operate in the frequency range 111 KHz - 205 KHz   |
| Output power from each primary coil is less than or equal to 15 watts   | Yes      | The maximum output power of the primary coil is 10W.  |
| The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.        | Yes      | The transfer system includes only single primary and secondary coils .Charging systems have Two primary coils and clients that are able to detect and allow coupling only between individual pairs of coils and the coil pairs powered on at the same time. |
| Client device is placed directly in contact with the transmitter.   | Yes      | Client device is placed directly in contact with the transmitter.   |
| Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).   | Yes      | Mobile exposure conditions only   |
| 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. | Yes      | The EUT 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.   |

In all other cases, unless excluded above, an RF exposure evaluation report must be reviewed and accepted through a KDB or PBA inquiry to enable authorization of the equipment. When evaluation is required to show compliance; for example, using field strength, power density, SAR measurements or computational modeling etc., the specific authorization requirements will be determined based on the results of the RF exposure evaluation.



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## 8. E and H field Strength

| Test Modes  |  |            |
|---|--|------------|
| Mode 1  | AC/DC Adapter (12V/3A) + EUT + iPhone+ Watch + TWS Earphone (Battery Status: <1%)  | Record     |
| Mode 2  | AC/DC Adapter (12V/3A) + EUT + iPhone+ Watch + TWS Earphone (Battery Status: <50%) | Record     |
| Mode 3  | AC/DC Adapter (12V/3A) + EUT + iPhone+ Watch + TWS Earphone (Battery Status: 100%) | Record     |
| Mode 4  | AC/DC Adapter (12V/3A) + EUT + iPhone  | Record     |
| Mode 5  | AC/DC Adapter (12V/3A) + EUT + Watch   | Record     |
| Mode 6  | AC/DC Adapter (12V/3A) + EUT + TWS Earphone (Battery Status: <1%)                  | Record     |
| Mode 7  | AC/DC Adapter (12V/3A) + EUT + TWS Earphone (Battery Status: <50%)                 | Pre-tested |
| Mode 8  | AC/DC Adapter (12V/3A) + EUT + TWS Earphone (Battery Status: <100%)                | Pre-tested |
| Mode 9  | AC/DC Adapter (12V/3A) + EUT + iPhone+ Watch                                       | Record     |
| Mode 10   | AC/DC Adapter (12V/3A) + EUT + iPhone+ TWS Earphone (Battery Status: <1%)          | Record     |
| Mode 11   | AC/DC Adapter (12V/3A) + EUT + iPhone+ TWS Earphone (Battery Status: <50%)         | Pre-tested |
| Mode 12   | AC/DC Adapter (12V/3A) + EUT + iPhone+ TWS Earphone (Battery Status: <100%)        | Pre-tested |
| Mode 13   | AC/DC Adapter (12V/3A) + EUT + Watch+ TWS Earphone (Battery Status: <1%)           | Record     |
| Mode 14   | AC/DC Adapter (12V/3A) + EUT + Watch+ TWS Earphone (Battery Status: <50%)          | Pre-tested |
| Mode 15   | AC/DC Adapter (12V/3A) + EUT + Watch+ TWS Earphone (Battery Status: <100%)         | Pre-tested |
| Note: All test modes were pre-tested, but we only recorded the worst case in this report. |  |            |

Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

| Load mode | Frequency Range (KHz) | Field Strength | Measured E - Field Strength Values (V/m)<br>Measured H - Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limits | Limits |
|-----------|-----------------------|----------------|--|-----------------|-----------------|-----------------|-----------------|------------|--------|
|           |                       |                | Test Position A  | Test Position B | Test Position C | Test Position D | Test Position E |            |        |
| Mode 1    | 111.0~205.0           | uT             | 0.120  | 0.138           | 0.136           | 0.129           | 0.142           | --         | --     |
| Mode 1    | 111.0~205.0           | A/m            | 0.096  | 0.110           | 0.109           | 0.103           | 0.113           | 0.815      | 1.63   |
| Mode 1    | 111.0~205.0           | V/m            | 36.042   | 41.522          | 40.801          | 38.805          | 42.591          | 307.0      | 614.0  |
| Mode 2    | 111.0~205.0           | uT             | 0.125  | 0.139           | 0.134           | 0.125           | 0.140           | --         | --     |
| Mode 2    | 111.0~205.0           | A/m            | 0.100  | 0.111           | 0.107           | 0.100           | 0.112           | 0.815      | 1.63   |
| Mode 2    | 111.0~205.0           | V/m            | 37.561   | 41.658          | 40.292          | 37.611          | 42.198          | 307.0      | 614.0  |
| Mode 3    | 111.0~205.0           | uT             | 0.120  | 0.131           | 0.141           | 0.125           | 0.139           | --         | --     |
| Mode 3    | 111.0~205.0           | A/m            | 0.096  | 0.105           | 0.113           | 0.100           | 0.111           | 0.815      | 1.63   |
| Mode 3    | 111.0~205.0           | V/m            | 36.148   | 39.402          | 42.420          | 37.708          | 41.730          | 307.0      | 614.0  |



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| Load mode | Frequency Range (KHz) | Field Strength | Measured E - Field Strength Values (V/m)<br>Measured H - Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limits | Limits |
|-----------|-----------------------|----------------|--|-----------------|-----------------|-----------------|-----------------|------------|--------|
|           |                       |                | Test Position A  | Test Position B | Test Position C | Test Position D | Test Position E |            |        |
| Mode 4    | 111.0~205.0           | uT             | 0.115  | 0.134           | 0.131           | 0.125           | 0.140           | --         | --     |
| Mode 4    | 111.0~205.0           | A/m            | 0.093  | 0.105           | 0.106           | 0.101           | 0.108           | 0.815      | 1.63   |
| Mode 4    | 111.0~205.0           | V/m            | 33.186   | 39.873          | 39.426          | 36.412          | 41.119          | 307.0      | 614.0  |
| Mode 5    | 111.0~205.0           | uT             | 0.115  | 0.132           | 0.126           | 0.120           | 0.136           | --         | --     |
| Mode 5    | 111.0~205.0           | A/m            | 0.097  | 0.103           | 0.100           | 0.094           | 0.108           | 0.815      | 1.63   |
| Mode 5    | 111.0~205.0           | V/m            | 34.284   | 39.415          | 39.240          | 34.266          | 40.842          | 307.0      | 614.0  |
| Mode 6    | 111.0~205.0           | uT             | 0.110  | 0.122           | 0.130           | 0.121           | 0.135           | --         | --     |
| Mode 6    | 111.0~205.0           | A/m            | 0.095  | 0.101           | 0.103           | 0.096           | 0.105           | 0.815      | 1.63   |
| Mode 6    | 111.0~205.0           | V/m            | 33.184   | 37.266          | 39.424          | 36.107          | 40.241          | 307.0      | 614.0  |

| Load mode | Frequency Range (KHz) | Field Strength | Measured E - Field Strength Values (V/m)<br>Measured H - Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limits | Limits |
|-----------|-----------------------|----------------|--|-----------------|-----------------|-----------------|-----------------|------------|--------|
|           |                       |                | Test Position A  | Test Position B | Test Position C | Test Position D | Test Position E |            |        |
| Mode 9    | 111.0~205.0           | uT             | 0.118  | 0.136           | 0.134           | 0.127           | 0.141           | --         | --     |
| Mode 9    | 111.0~205.0           | A/m            | 0.095  | 0.108           | 0.107           | 0.103           | 0.110           | 0.815      | 1.63   |
| Mode 9    | 111.0~205.0           | V/m            | 34.267   | 40.248          | 39.745          | 37.168          | 41.842          | 307.0      | 614.0  |
| Mode 10   | 111.0~205.0           | uT             | 0.119  | 0.135           | 0.130           | 0.123           | 0.138           | --         | --     |
| Mode 10   | 111.0~205.0           | A/m            | 0.099  | 0.105           | 0.103           | 0.098           | 0.110           | 0.815      | 1.63   |
| Mode 10   | 111.0~205.0           | V/m            | 35.924   | 40.182          | 39.842          | 35.248          | 41.448          | 307.0      | 614.0  |
| Mode 13   | 111.0~205.0           | uT             | 0.115  | 0.124           | 0.136           | 0.122           | 0.138           | --         | --     |
| Mode 13   | 111.0~205.0           | A/m            | 0.097  | 0.103           | 0.109           | 0.097           | 0.108           | 0.815      | 1.63   |
| Mode 13   | 111.0~205.0           | V/m            | 34.268   | 38.846          | 40.207          | 36.244          | 40.409          | 307.0      | 614.0  |





## Field Strength at 20cm from the top surface of the EUT

| Charging<br>Battery<br>Level | Frequency<br>Range<br>(MHz) | Field<br>Strength | Measured E - Field Strength Values<br>(V/m) | 50%<br>Limits | Limits |
|------------------------------|-----------------------------|-------------------|---|---------------|--------|
|                              |                             |                   | Measured H - Field Strength Values<br>(A/m) |               |        |
|                              |                             |                   | Test<br>Position E                          |               |        |
| Mode 1                       | 111.0~205.0                 | uT                | 0.128                                       | --            | --     |
| Mode 1                       | 111.0~205.0                 | A/m               | 0.102                                       | 0.815         | 1.63   |
| Mode 1                       | 111.0~205.0                 | V/m               | 38.361                                      | 307.0         | 614.0  |
| Mode 2                       | 111.0~205.0                 | uT                | 0.129                                       | --            | --     |
| Mode 2                       | 111.0~205.0                 | A/m               | 0.103                                       | 0.815         | 1.63   |
| Mode 2                       | 111.0~205.0                 | V/m               | 38.796                                      | 307.0         | 614.0  |
| Mode 3                       | 111.0~205.0                 | uT                | 0.125                                       | --            | --     |
| Mode 3                       | 111.0~205.0                 | A/m               | 0.100                                       | 0.815         | 1.63   |
| Mode 3                       | 111.0~205.0                 | V/m               | 37.622                                      | 307.0         | 614.0  |

| Charging<br>Battery<br>Level | Frequency<br>Range<br>(MHz) | Field<br>Strength | Measured E - Field Strength Values<br>(V/m) | 50%<br>Limits | Limits |
|------------------------------|-----------------------------|-------------------|---|---------------|--------|
|                              |                             |                   | Measured H - Field Strength Values<br>(A/m) |               |        |
|                              |                             |                   | Test<br>Position E                          |               |        |
| Mode 4                       | 111.0~205.0                 | uT                | 0.122                                       | --            | --     |
| Mode 4                       | 111.0~205.0                 | A/m               | 0.098                                       | 0.815         | 1.63   |
| Mode 4                       | 111.0~205.0                 | V/m               | 36.948                                      | 307.0         | 614.0  |
| Mode 5                       | 111.0~205.0                 | uT                | 0.124                                       | --            | --     |
| Mode 5                       | 111.0~205.0                 | A/m               | 0.100                                       | 0.815         | 1.63   |
| Mode 5                       | 111.0~205.0                 | V/m               | 38.118                                      | 307.0         | 614.0  |
| Mode 6                       | 111.0~205.0                 | uT                | 0.120                                       | --            | --     |
| Mode 6                       | 111.0~205.0                 | A/m               | 0.095                                       | 0.815         | 1.63   |
| Mode 6                       | 111.0~205.0                 | V/m               | 37.104                                      | 307.0         | 614.0  |





| Charging<br>Battery<br>Level | Frequency<br>Range<br>(MHz) | Field<br>Strength | Measured E - Field Strength Values<br>(V/m) | 50%<br>Limits | Limits |
|------------------------------|-----------------------------|-------------------|---|---------------|--------|
|                              |                             |                   | Measured H - Field Strength Values<br>(A/m) |               |        |
| Mode 9                       | 111.0~205.0                 | uT                | 0.125                                       | --            | --     |
| Mode 9                       | 111.0~205.0                 | A/m               | 0.100                                       | 0.815         | 1.63   |
| Mode 9                       | 111.0~205.0                 | V/m               | 38.248                                      | 307.0         | 614.0  |
| Mode 10                      | 111.0~205.0                 | uT                | 0.127                                       | --            | --     |
| Mode 10                      | 111.0~205.0                 | A/m               | 0.101                                       | 0.815         | 1.63   |
| Mode 10                      | 111.0~205.0                 | V/m               | 38.426                                      | 307.0         | 614.0  |
| Mode 13                      | 111.0~205.0                 | uT                | 0.123                                       | --            | --     |
| Mode 13                      | 111.0~205.0                 | A/m               | 0.097                                       | 0.815         | 1.63   |
| Mode 13                      | 111.0~205.0                 | V/m               | 37.329                                      | 307.0         | 614.0  |

Note: V/m =  $10^{((20\lg(A/m \cdot 10^6) + 51.5) - 120)/20}$

Note: A/m = uT / 1.25





## 9. Test Setup Photos

### 9.1. Test Position A - Exposure photo from side edge surface-Rear



(TM1)



(TM4)

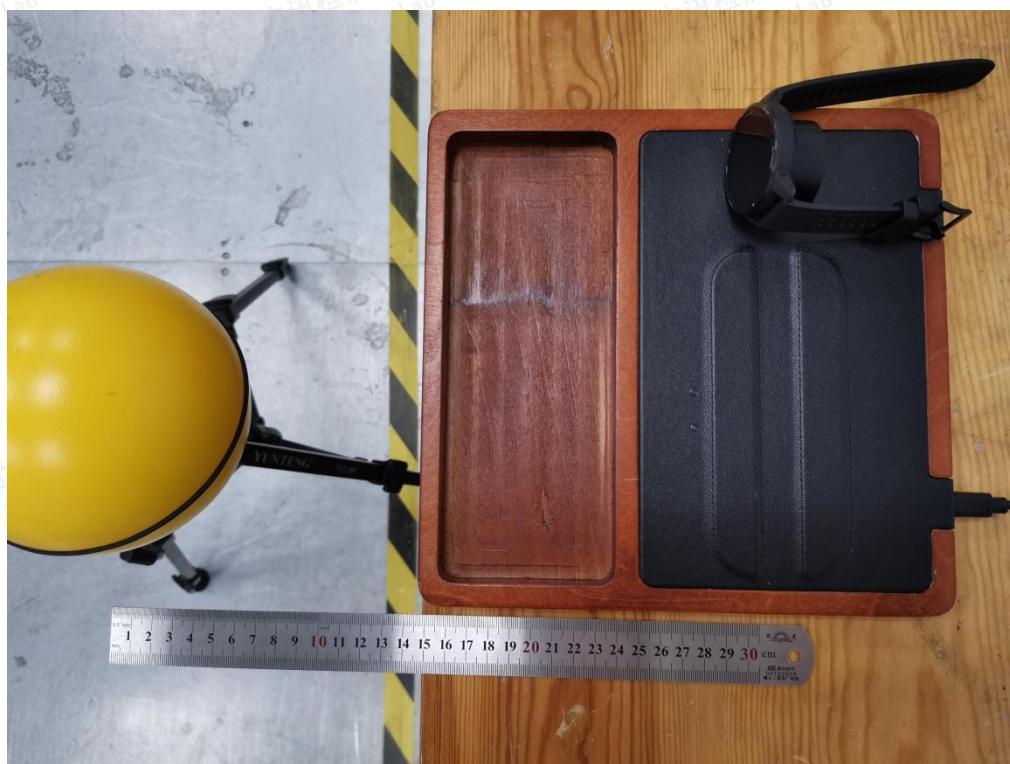


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(TM5)



(TM6)



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(TM9)



(TM10)



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(TM13)

#### 9.1. Test Position B - Exposure photo from side edge surface-Left



(TM1)



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(TM4)

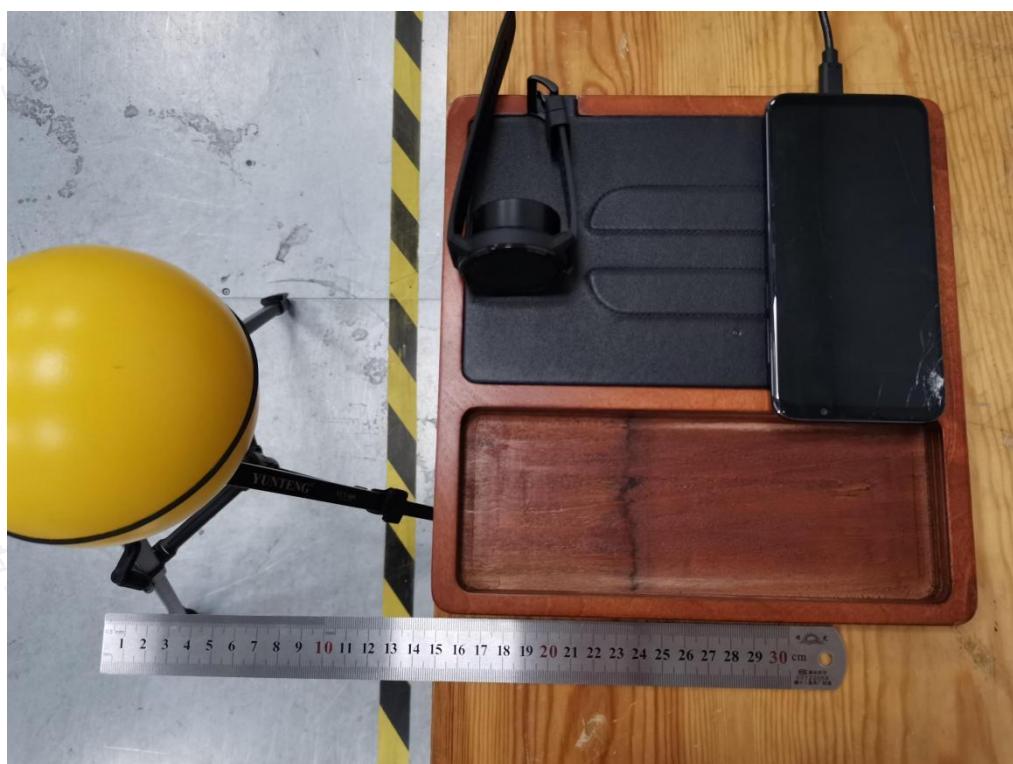


(TM5)





(TM6)



(TM9)

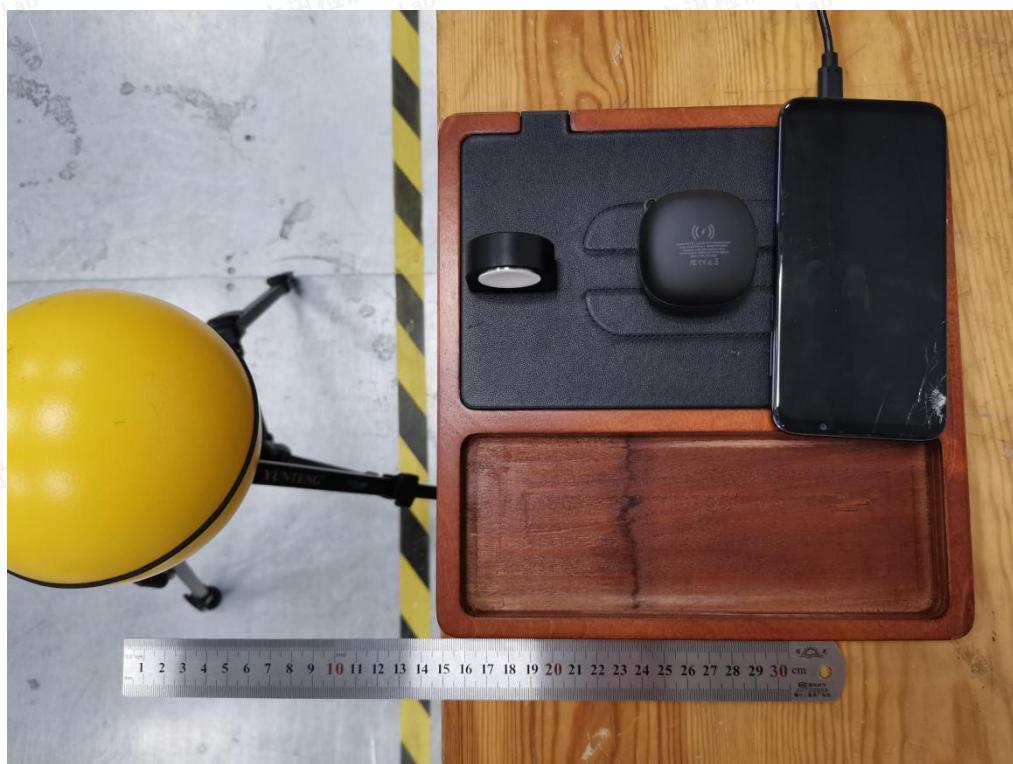


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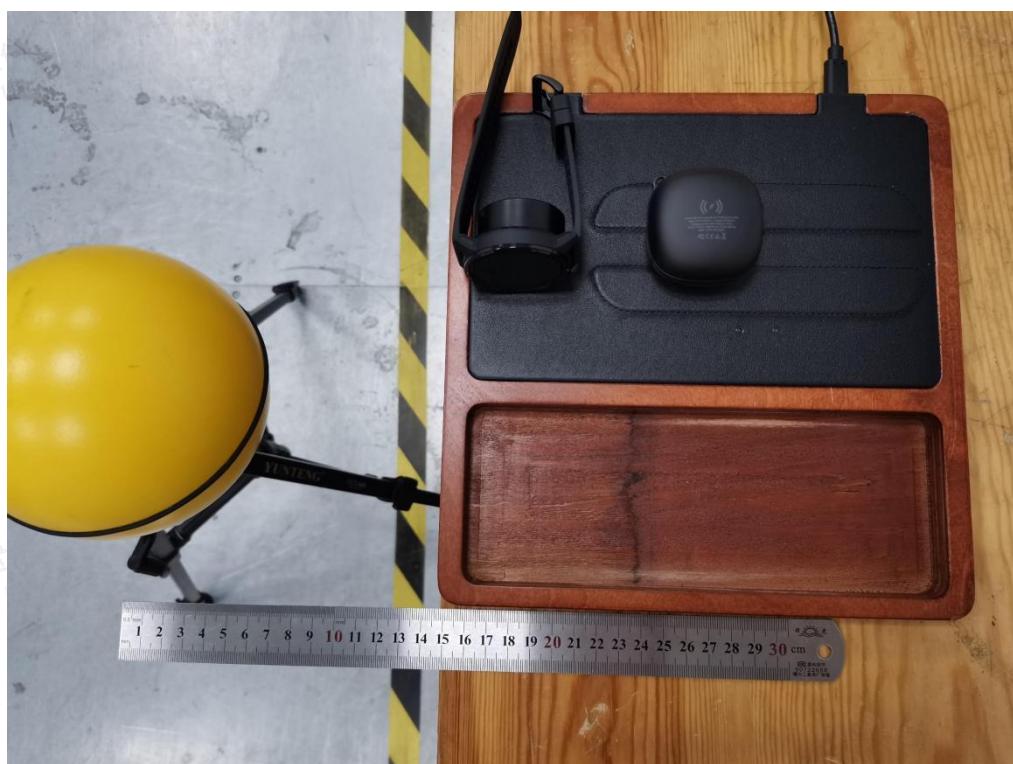
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(TM10)



(TM13)

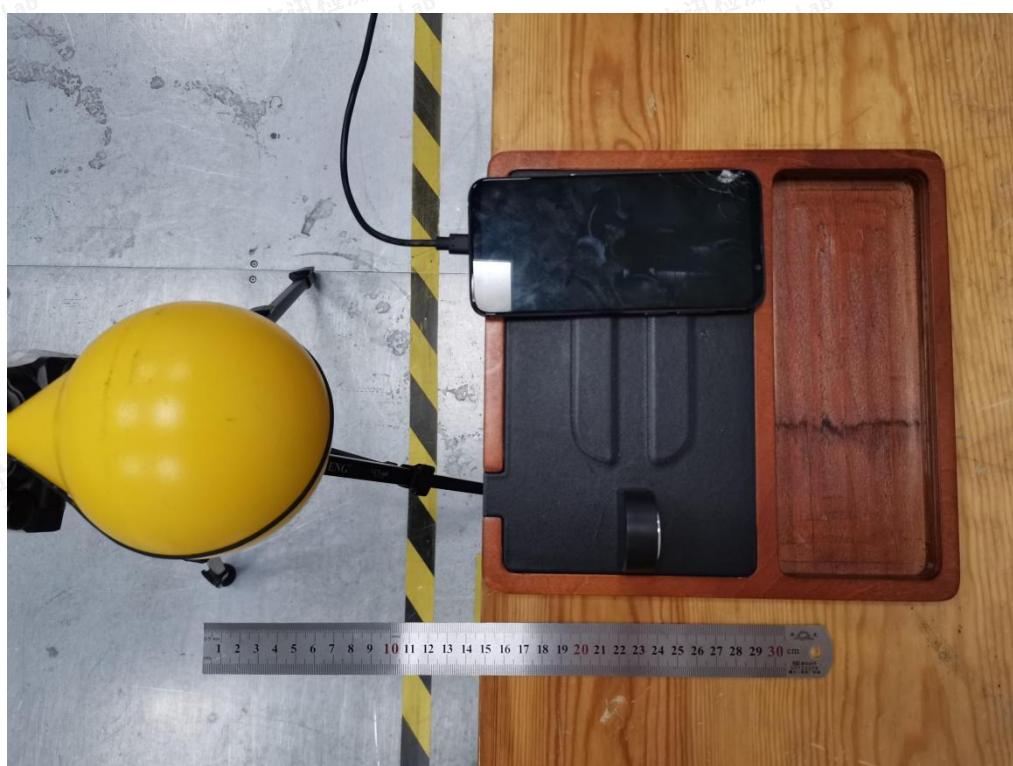


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**9.2. Test Position C - Exposure photo from side edge surface-Front****(TM1)****(TM4)**

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(TM5)



(TM6)





(TM9)



(TM10)



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(TM13)

### 9.3. Test Position D - Exposure photo from side edge surface-Right



(TM1)



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(TM4)



(TM5)



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(TM6)



(TM9)



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(TM10)



(TM13)



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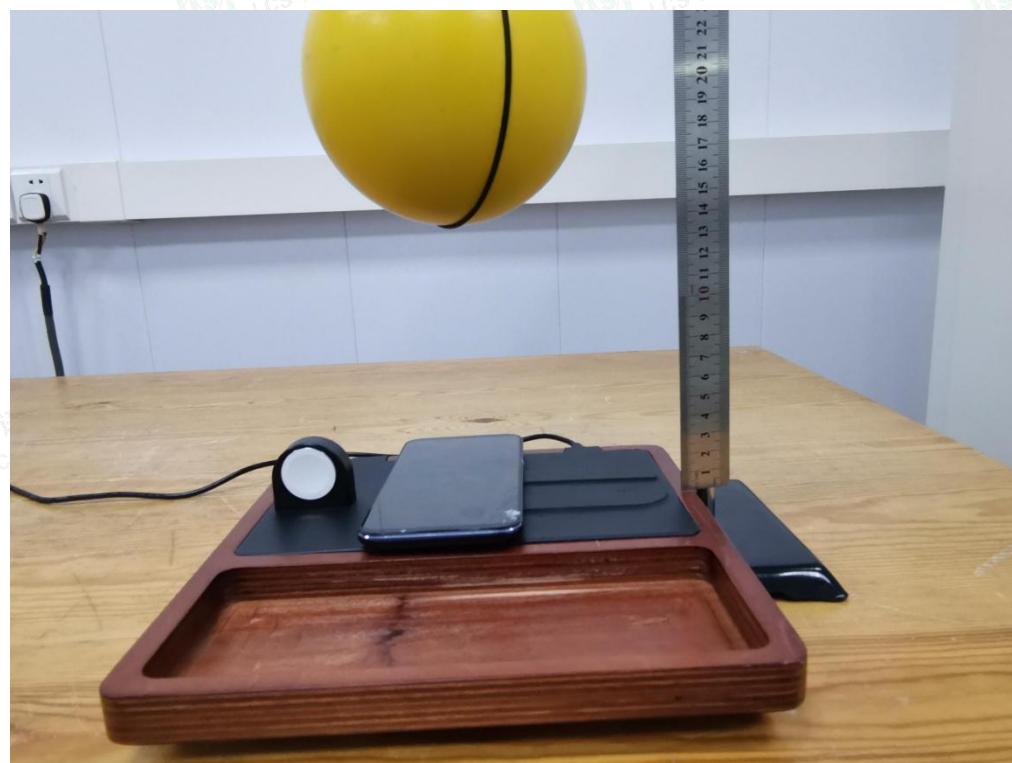
Add:101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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**9.4. Test Position E - Exposure photo from top surface (20cm)**

(TM1)



(TM4)

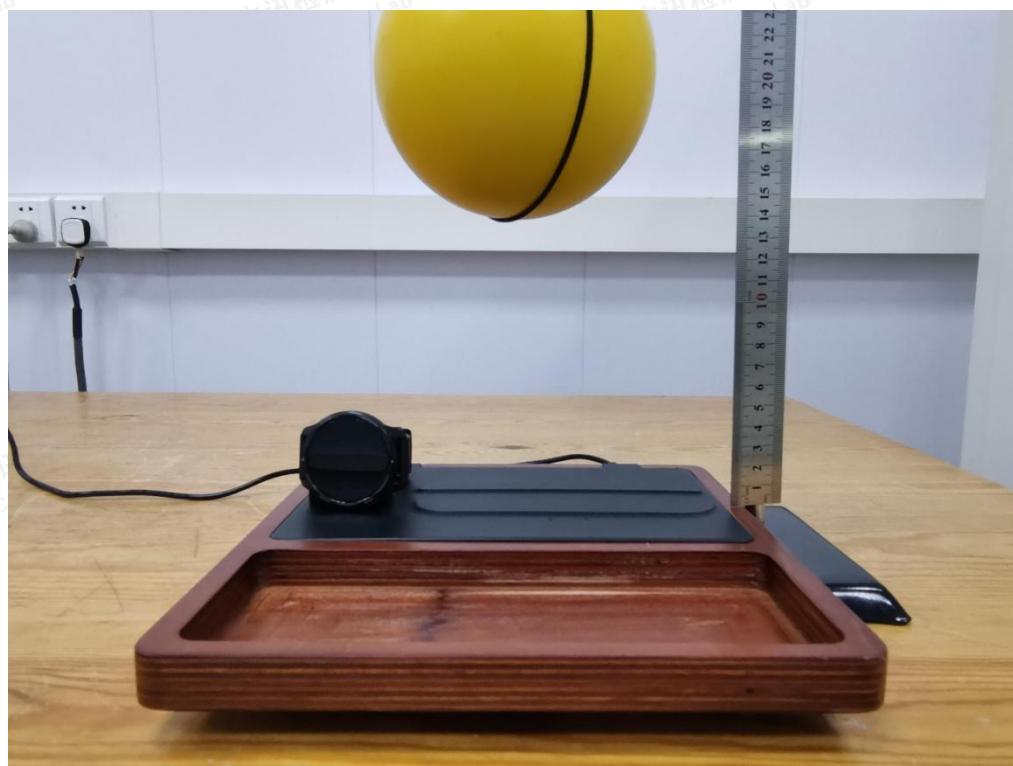


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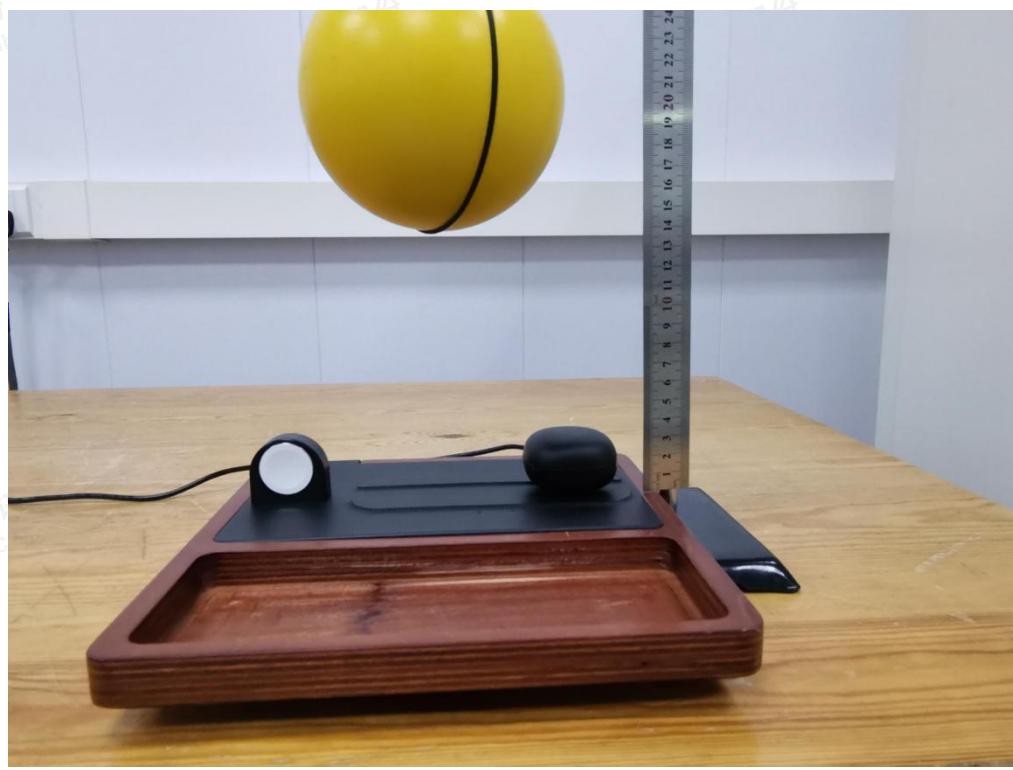
Add:101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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(TM5)

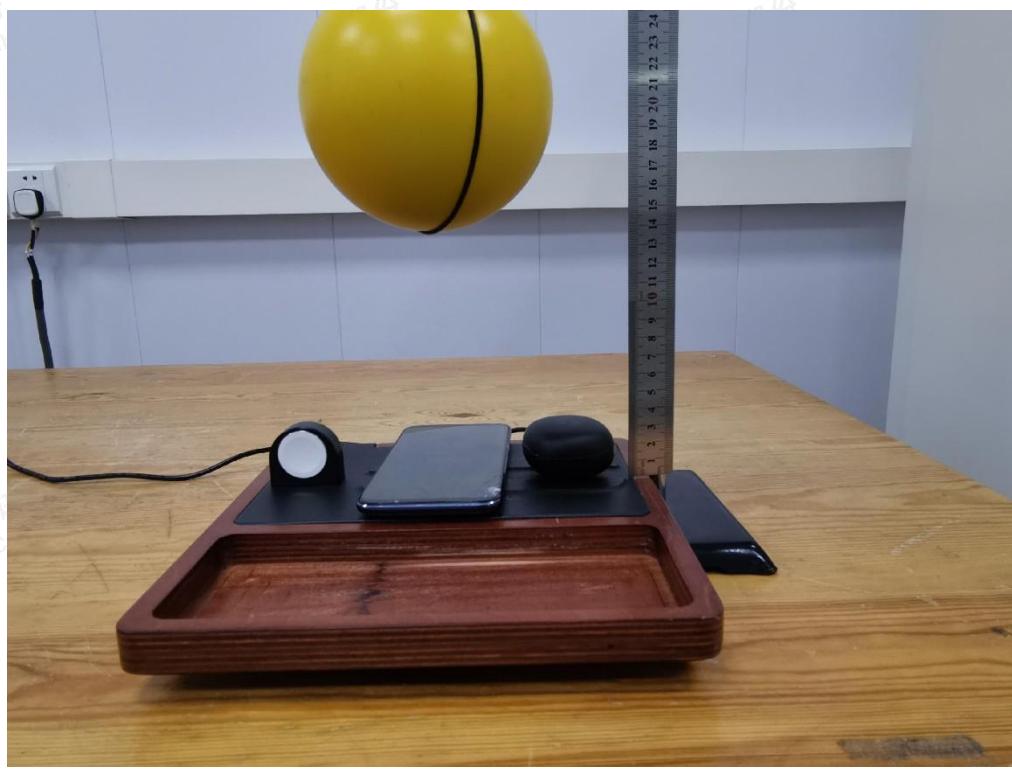


(TM6)



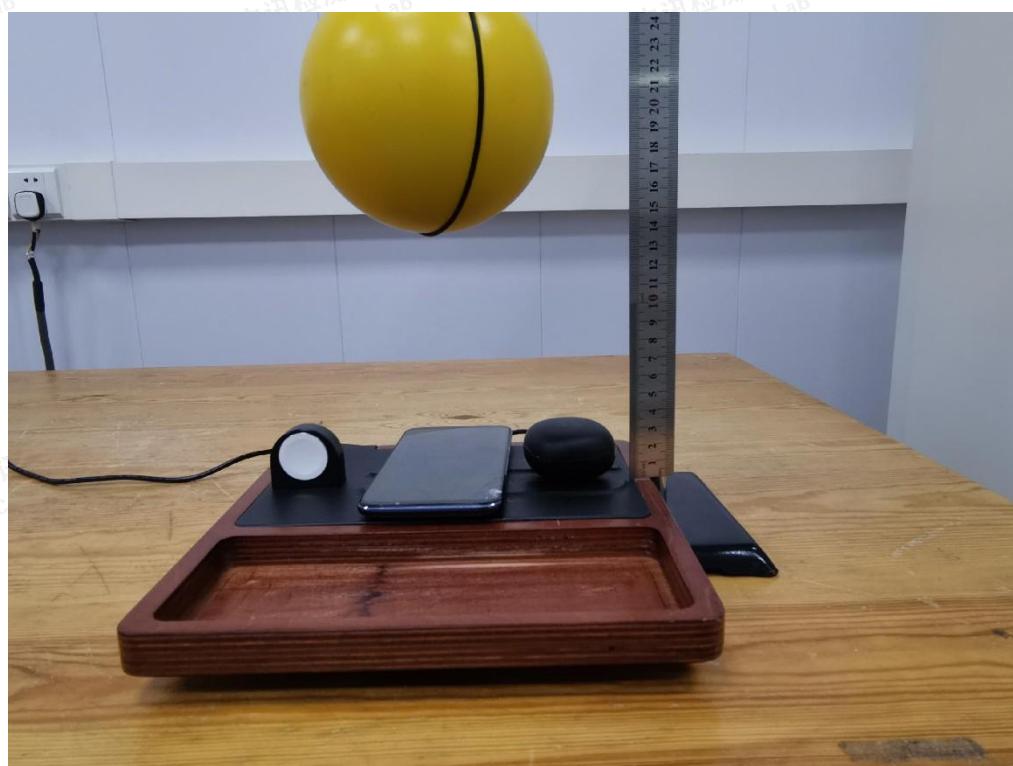


(TM9)



(TM10)





(TM13)

**9.5. Test Position E- Exposure photo from top surface (15cm)**

(TM1)



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(TM4)



(TM5)



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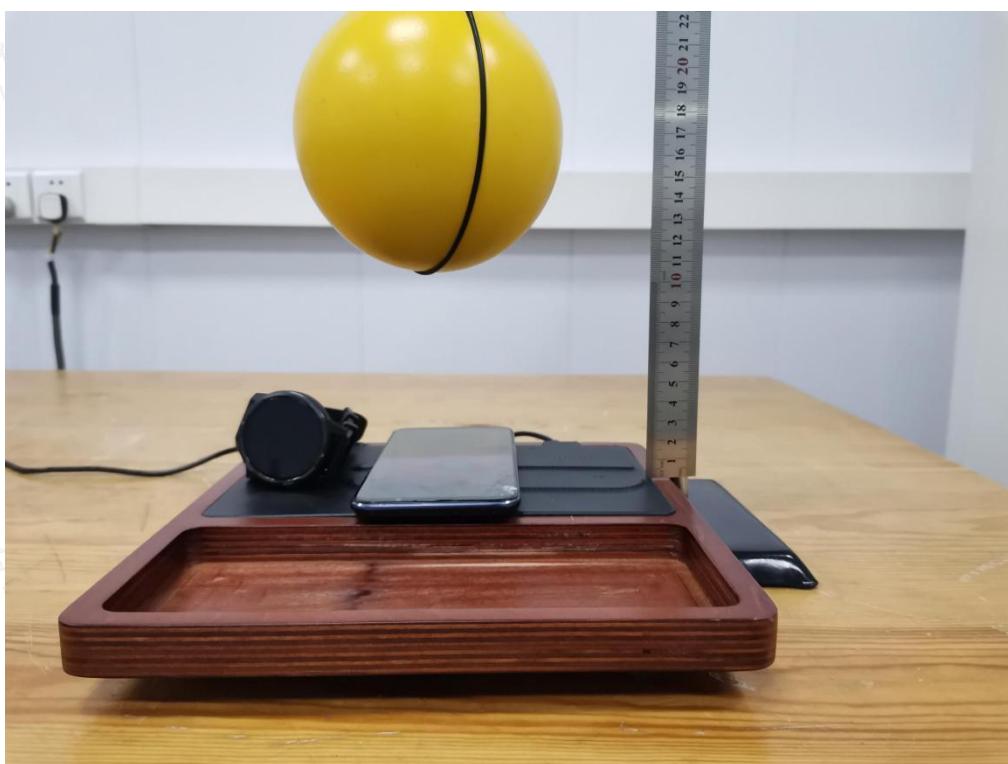
Add:101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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(TM6)



(TM9)



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(TM10)



(TM13)



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## 10. Conclusion

A minimum safety distance of at 15 cm surrounding the device and 20 cm above the top surface of the device is required when the device is charging a smart phone. The detected emissions with a distance of 15 cm surrounding the device and 20 cm above the top surface of the device are below the limitations according to FCC KDB 680106 D01 Section 3. RF Exposure Requirement Clause 3.

## Revision History

| Report Version | Issue Date    | Revision Content | Revised By |
|----------------|---------------|------------------|------------|
| 000            | June 08, 2022 | Initial Issue    | --         |
|                |               |                  |            |
|                |               |                  |            |

.....END OF REPORT.....

