



RF EXPOSURE EXEMPT REPORT

APPLICANT : Winners'Sun Plastic & Electronic (Shenzhen)
: Co., Ltd

PRODUCT NAME : The compass tripod

MODEL NAME : WS-18026, WS-18026-1, WS-18026-2,
: WS-18026-3

BRAND NAME : Dispho

FCC ID : UR9WS-18026

STANDARD(S) : 47CFR 2.1093
: KDB 447498

RECEIPT DATE : 2019-07-09

TEST DATE : 2019-07-26

ISSUE DATE : 2019-08-05

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Peng Huarui (Supervisor)

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| Change History | | |
|-----------------------|-------------|--------------------------|
| Version | Date | Reason for change |
| 1.0 | 2019-07-30 | First edition |
| 2.0 | 2019-08-05 | Added EUT models |
| | | |
| | | |
| | | |



1. Technical Information

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

| | |
|------------------------------|--|
| Applicant: | Winners'Sun Plastic & Electronic (Shenzhen) Co., Ltd |
| Applicant Address: | Zone E, Ying Tai Industrial Park, Dalang Longhua Town, Bao An District Shenzhen, Guang Dong Province China |
| Manufacturer: | Winners'Sun Plastic & Electronic (Shenzhen) Co., Ltd |
| Manufacturer Address: | Floor 1-4, Bild E&Floor 1, Floor 3, Bild D, Yingtai Industrial E Area, Dalang South Street, Langkou Community, Dalang Street, Bao'an District, Shenzhen, Guangdong |

1.2 Equipment Under Test (EUT) Description

| | |
|--------------------------|----------------------------|
| EUT Name: | The compass tripod |
| Hardware Version: | V1.0 |
| Software Version: | V01 |
| Frequency Bands: | Bluetooth: 2402MHz-2480MHz |
| Modulation Mode: | Bluetooth: GFSK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 0.5dBi |

Note:

According to the certificate holder, they declared that the models WS-18026, WS-18026-1, WS-18026-2, WS-18026-3, only differ in model number and the tripod and telescopic rod without circuit are extended, the circuit is exactly the same and the two models are accordant in both hardware and software. The main measuring model is WS-18026, only the results for WS-18026 were recorded in this report.



1.3 Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

| EUT Identity | Hardware Version | Software Version |
|--------------|------------------|------------------|
| 1# | V1.0 | V01 |

1.4 Applied Reference Documents

Leading reference documents for testing:

| No. | Identity | Document Title |
|-----|-------------------|---|
| 1 | 47 CFR§2.1093 | Radio Frequency Radiation Exposure Evaluation: portable devices |
| 2 | KDB 447498 D01v06 | General RF Exposure Guidance |



2. Device Category and RF Exposure Limit

Per user manual, this device is a compass tripod. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.



3. Measurement of RF Output Power

1. Bluetooth output power

| Mode | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| | | | GFSK |
| LE | CH 00 | 2402 | -14.94 |
| | CH 19 | 2440 | -14.85 |
| | CH 39 | 2480 | -14.8 |
| Tune-up Limit | | | -14.0 |

Note: According to KDB 447498 Section 4.3, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

4. RF Exposure Evaluation

➤ Standalone transmission SAR evaluation:

1. According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0.$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

2. When the compass tripod is used on hand/head, 5mm as the most conservative minimum test separation distance was used for evaluating,

| Channel | Frequency (GHz) | Max. tune-up Power (dBm) | Max. Power (mW) | Test distance (mm) | Result | exclusion thresholds for 1-g SAR |
|---------|-----------------|--------------------------|-----------------|--------------------|--------|----------------------------------|
| CH 78 | 2.48 | -14.0 | 0.04 | 5 | 0.013 | 3.0 |

3. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR f.

$$\text{Estimated SAR} = \frac{\sqrt{f(\text{GHz})}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

| Mode | Max. tune-up Power (dBm) | Exposure Position | Hand/Body |
|-----------|--------------------------|----------------------|-----------|
| | | Test Distance (mm) | 5 |
| Bluetooth | -14.0 | Estimated SAR (W/kg) | 0.002 |



➤ **Simultaneous SAR evaluation:**

This device only incorporates a Bluetooth module, Therefore simultaneous SAR evaluation is not required.



Annex A General Information

1. Identification of the Responsible Testing Laboratory

| | |
|---------------------|--|
| Laboratory Name: | Shenzhen Morlab Communications Technology Co., Ltd.Morlab Laboratory |
| Laboratory Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China |
| Telephone: | +86 755 36698555 |
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2. Identification of the Responsible Testing Location

| | |
|----------|--|
| Name: | Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China |

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