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MPE TEST REPORT

Report No: STS1803230W01

Issued for

SUNVALLEYTEK INTERNATIONAL, INC.

46724 Lakeview Blvd, Fremont, CA 94538

| | |
|-----------------------|---------------------------|
| Product Name: | LED DESK LAMP |
| Brand Name: | TAOTRONICS |
| Model Name: | TT-DL043 |
| Series Model: | N/A |
| FCC ID: | 2AFDGT-T-DL043 |
| Test Standard: | FCC CFR 47 part 1, 1.1310 |

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**TEST RESULT CERTIFICATION**

Applicant's name: SUNVALLEYTEK INTERNATIONAL, INC.
Address: 46724 Lakeview Blvd, Fremont, CA 94538
Manufacture's Name: Shenzhen NearbyExpress Technology Development Company
Address: 333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian,
Longgang District, Shenzhen, China

Product description

Product Name: LED DESK LAMP
Brand Name: TAOTRONICS
Model Name: TT-DL043
Series Model: N/A

Standards : FCC CFR 47 part 1, 1.1310

Test Procedure : 680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of performance of tests: 10 Apr. 2018 ~ 19 Apr. 2018

Date of Issue : 20 Apr. 2018

Test Result : **Pass**

Testing Engineer :

(Chris chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
|------|--------------|---------------|-------------|---------------|
| 00 | 20 Apr. 2018 | STS1803230W01 | ALL | Initial Issue |
| | | | | |



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

| FCC CFR 47 | | | |
|---|-----------------------------------|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| FCC CFR 47 part1, 1.1310 KDB680106 D01v03 | Electric Field Strength (E) (V/m) | PASS | |
| | Magnetic Field Strength (H) (A/m) | PASS | |

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649; FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|--|-------------------------|
| 1 | All emissions,radiated(<30M)(9KHz-30MHz) | $\pm 2.45\text{dB}$ |
| 2 | Temperature | $\pm 0.5^\circ\text{C}$ |
| 3 | Humidity | $\pm 2\%$ |



1.3 GENERAL DESCRIPTION OF EUT

| | |
|-------------------------|---|
| Product Name | LED DESK LAMP |
| Trade Name | TAOTRONICS |
| Model Name | TT-DL043 |
| Series Model | N/A |
| Model Difference | N/A |
| Equipemnt Category | Non-ISM frequency |
| Operating frequency | 110KHz-128KHz |
| Adapter | Model : VSL1200300HK(UK), VSL1200300HE(UE) Brand: VERE Input: AC 100-240V, 50/60Hz, 1.2A Output: DC 12V, 3A |
| Rated Power | 5W/samsung10W/I Phone 7.5W |
| Hardware version number | 2.0.6 |
| Software version number | CPS100BFE_13_ZBAO_V1.0.0.hex |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | NOTE |
|-----|------------|------------|--------------|-----------|---------|
| 1 | TAOTRONICS | TT-DL043 | Coil | N/A | Antenna |

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---------------------------------|--------------|---------------------------------|------------|------------------|------------------|
| EMF Meter | NARDA | ELT-400 | N-0342 | 2017.10.23 | 2018.10.22 |
| EMF probe | NARDA | B-Field Probe | M-0779 | 2017.10.23 | 2018.10.22 |
| Broadband field meter NARDA NBM | 550 | Broadband field meter NARDA NBM | E-1275 | 2017.10.23 | 2018.10.22 |
| Broadband field probe NARDA EF | 0391 | Broadband field probe NARDA EF | D-0894 | 2017.10.23 | 2018.10.22 |



2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

| Limits for Occupational / Controlled Exposure | | | | |
|---|-----------------------------------|-----------------------------------|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842 / f | 4.89 / f | (900 / f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | | | F/300 | 6 |
| 1500-100,000 | | | 5 | 6 |

| Limits for General Population / Uncontrolled Exposure | | | | |
|---|-----------------------------------|-----------------------------------|--|--|
| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm ²) | Averaging Time E ² , H ² or S (minutes) |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180 / f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | | | F/1500 | 30 |
| 1500-100,000 | | | 1 | 30 |

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

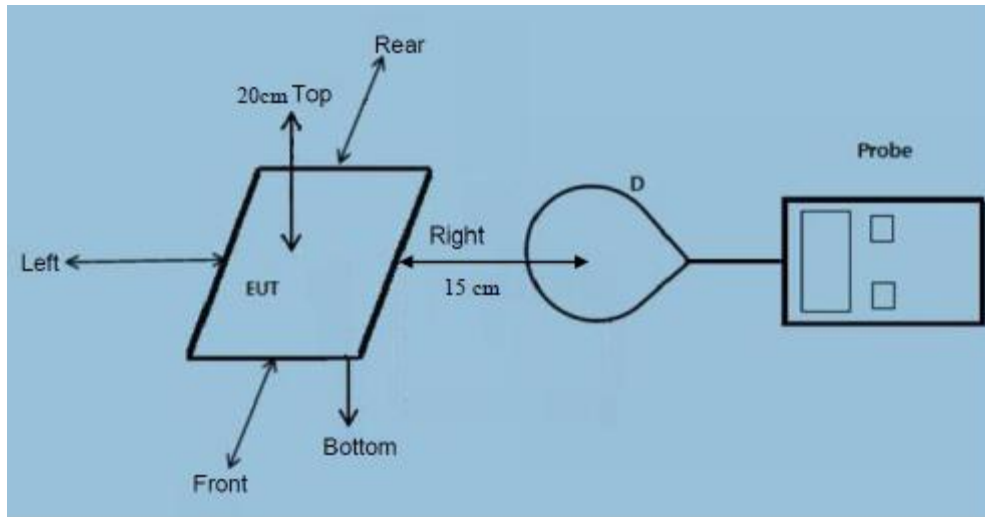
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: 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 .

2.2 TEST PROCEDURE

- a. For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). 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 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| < 1% Battery | 15cm | Front | 0.463 | 0.113 |
| < 1% Battery | 15cm | Rear | 0.451 | 0.105 |
| < 1% Battery | 15cm | Left | 0.455 | 0.117 |
| < 1% Battery | 15cm | Right | 0.462 | 0.109 |
| < 1% Battery | 20cm | Top | 0.471 | 0.124 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.077% | 7.6% |



| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| 50% Battery | 15cm | Front | 0.465 | 0.114 |
| 50% Battery | 15cm | Rear | 0.457 | 0.106 |
| 50% Battery | 15cm | Left | 0.452 | 0.112 |
| 50% Battery | 15cm | Right | 0.468 | 0.107 |
| 50% Battery | 20cm | Top | 0.478 | 0.126 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.078% | 7.7% |

| Maximum Permissible Exposure | | | | |
|------------------------------|------------|---------------------|---------------|---------------|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) |
| >99% Battery | 15cm | Front | 0.467 | 0.118 |
| >99% Battery | 15cm | Rear | 0.452 | 0.105 |
| >99% Battery | 15cm | Left | 0.456 | 0.117 |
| >99% Battery | 15cm | Right | 0.461 | 0.106 |
| >99% Battery | 20cm | Top | 0.473 | 0.129 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.077% | 7.9% |

MPE SETUP PHOTO



*****END OF THE REPORT*****