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Shenzhen Anbotek Compliance Laboratory Limited FCC ID: 2AFDGTT-DL057 Page 1 of 13 Report No.: SZAWW181112002-02

# FCC TEST REPORT

For

SUNVALLEYTEK INTERNATIONAL, INC. LED DESK LAMP Model No.: TT-DL057

Prepared For	Anb	SUNVALLEYTEK INTERNATIONAL, INC.
Address	:	46724 Lakeview Blvd, Fremont, California, United States 94538-6529

Prepared By 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 Tel: (86) 755-26066440 Fax: (86) 755-26014772

Report Number	P.	SZAWW181112002-02
Date of Test	:	Nov. 12, 2018
Date of Test	Ne.	Nov. 12~Dec. 03, 2018
Date of Report	potek	Dec. 03, 2018



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# **TEST REPORT**

Applicant :	SUNVALLEYTEK INTERNATIONAL, INC.
Manufacturer :	Shenzhen NearbyExpress Technology Development Company Limited
Product Name :	LED DESK LAMP
Model No. :	TT-DL057
Trade Mark :	TAOTRONICS
Rating(s) :	Input: DC 12V, 1.2A Output: 5W Max

# 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 written approval of Shenzhen Anbotek Compliance Laboratory Limited.



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# **1. General Information**

# **1.1. Client Information**

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Product Safety

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Applicant	SUNVALLEYTEK INTERNATIONAL, INC.	vupo.
Address	: 46724 Lakeview Blvd, Fremont, California, United States 94538-6529	And
Manufacturer	: Shenzhen NearbyExpress Technology Development Company Limited	P
Address	<ul> <li>333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang</li> <li>District, Shenzhen, China</li> </ul>	otek
Factory	: Shenzhen NearbyExpress Technology Development Company Limited	nbotel
Address	<ul> <li>333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang</li> <li>District, Shenzhen, China</li> </ul>	Anbr

## **1.2. Description of Device (EUT)**

Product Name	:	LED DESK LAMP	Anborotek
Model No.	:	TT-DL057 otek Anbouek Anbolek Anbolek Anbolek Anbouek	Anbol
Trade Mark	:	TAOTRONICS	lek pro
Test Power Supply	:	AC 120V, 60Hz for adapter	boten
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)	Anbotek
		Operation Frequency: 111~205KHz	Anbote
Product		Modulation Type: MSK	ek Ant
Description	ŀ	Antenna Type: Inductive loop coil Antenna	poter I
		Antenna Gain(Peak): 0 dBi	Anbotek
Remark: 1) For a m	ore	detailed features description, please refer to the manufacturer's specification	ons or the

User's Manual.

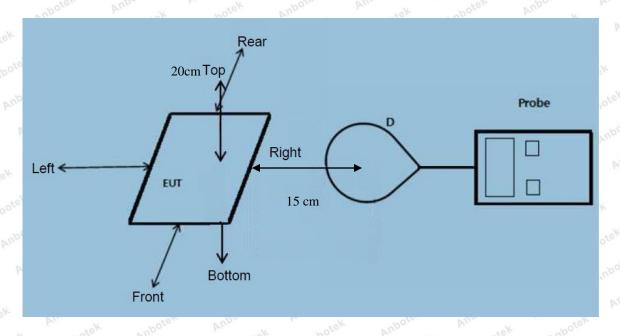
## 1.3. Auxiliary Equipment Used During Test

Adapter	:	MODEL: NLB120120W1A1S47 INPUT: 100-240V~ 50/60Hz, 0.5A MAX OUTPUT: DC 12V, 1.2A	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote
Mobile Phone	:	iPhone 6S	otek Anboli ok botek Anb

# Anbotek Product Safety

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## 1.4. Description Of Test Setup



Note: 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 device

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#### 1.5. Test Equipment List

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

#### **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, July 31, 2017.

#### ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

#### 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

# 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 al simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (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	ed Exposure	
		1 00	*(+00)	

Limits For Maximum Permissible Exposure (MPE)

	(B) 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					
300-1500	/	1	f/1500	30					

F=frequency in MHz

1500-100,000

=Plane-wave equivalent power density

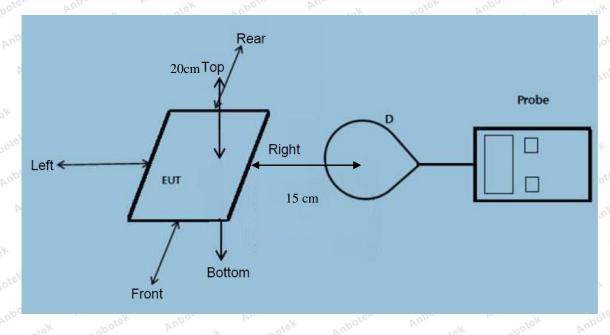
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m)

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## 2.2. Test Setup



Note: 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 device

#### 2.3. Test Procedure

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

2) The measurement probe was placed at test distance (15 cm) 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 111~205KHz
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil 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

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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.

- The EUT E-Field Strength levels at 15 cm & The EUT H-Field Strength levels at 15 cm are less than 50% the MPE limit.

The test results please refer to the section 2.4.2

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

Temperature:	23.6° C	Relative Humidity:	53 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

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

Pottomy	Frequency	Test	Test	Test M	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	lek A Anb	B	C	AntDek	P.E.	(V/m)	(V/m)
en Aup	otek Nr	potek I	Inpoter	Ann botek	Anbotek	Aupor	ek nbc	Lek A
1%	111~205	0.24	0.22	0.25	0.67	0.44	307	614
Anbotek	Anbo	Anbotek	Anbote	0.25	OF DI	10 ·	por A	potek
Anbotek	Anboutek	Anbote	Anbo	ootek An	nbotek	Anbotek	Anbor	Anbotek
50%	111~205	1.53	1.27 N	1.44	1.56	1.61	307	614
sk Anbo	tek Anbot	stek pr	nbotek	PUL	And	Anbotek	Anbou	ek An
otek Ar	poten An	po po p	Anbotek	Anbore	Anthor	ek Anbot	ek Aupo	-tek P.
99%	111~205	2.13	2.34	2.130010	2.64	2.18	307 N	614
Anunotek	Anbotek	Anbor	Annbot	ek Anb	A.C.	pot r		Anbore
Annabotek	Anbotek	Aupor		potek p	nboten	Annobotek	Anbotek	Anboten
Stand-by	111~205	0.24	0.61	0.53	0.13	0.55		614
Anu	ootek Ant	potek A	hbor stek	Anobotek	Anbotek	Anber	anbot Anbot	ek An

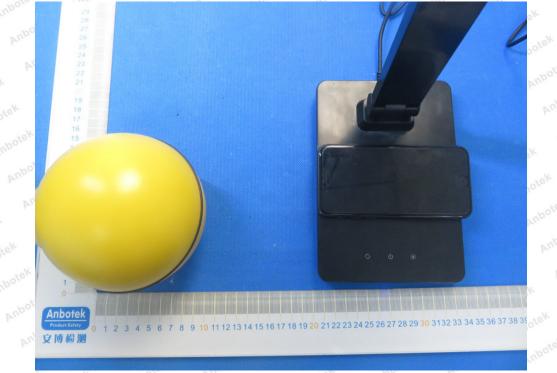
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Print	wolen.	And	57. 57	dek M	100-	An and	hoten	And
Battery	Frequency	Test	Test N	Test	Test	Test	Reference	Limits
1 ale	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A A	В	Cek	D	E	(A/m)	(A/m)
otek p.	nbotek P	nbote	Anv hotek	Anbotek	Anbor	An.	otek Anb	oten
1%	111~205	0.054	0.056	0.047	0.048	0.059	0.815	1.63
Anbor	Annabotek	Anboten	Anbo	otek ph	potek I	inboto A	hotek	Anbotek
Anbou	k abote	Anbot	er And	nbotek	Anbotek	Anbore		Anbote
50%	111~205	0.33	0.32	0.44	0.36	0.48	0.815	1.63
ptek Anb	ore Pri	botek	Anboten	Anbotek	h. hpote	Anbor	Any Any	ptek h
nbotek P	nbot P	nbotek	Anbotek	Anbo	27	otek Anbr	rek Ans	botek
99%	111~205	0.42	0.51	0.53	0.24	0.46	0.815	1.63
Anbotek	Anbote	Ano	Anb	pten An	port P	anbotek		Anbo
Anbotel	Anbor	tek pi	otek p	nbotek	Anbo	Anbotek	Anbore	Anu
Stand-by	111~205	0.41	0.46	0.38	0.17	0.30	0.815	1.63
watek p	nbotek A	1 bore rok	Annobotek	Anbotek	Anbote	Kek pabo	tek Anbc	re, br

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

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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

# Photo of MPE Measurement

**APPENDIX I -- TEST SETUP PHOTOGRAPH** 

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----- End of Report ------

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