

FCC TEST REPORT

For

Guangdong Guangyang Electric Co.,Ltd.

LED table lamp

Model No.:LA-N118

Prepared For : Guangdong Guangyang Electric Co.,Ltd.

Address : No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong

Province, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Guangdong Guangyang Electric Co.,Ltd.

Manufacturer : Guangdong Guangyang Electric Co.,Ltd.

Product Name : LED table lamp

Model No. : LA-N118

Trade Mark : Havit

Rating(s) : Input: DC 5.4V, 2.8A

LED Output: DC 3V,1A (4W Max.) Wireless Output: DC 5V,1A

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.

Prepared by

(Engineer / Oliay Yang)

Ambotek

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)



1. General Information

1.1. Client Information

Applicant	:	Guangdong Guangyang Electric Co.,Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong Province, China
Manufacturer	:	Guangdong Guangyang Electric Co.,Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	LED table lamp	Anbotek Anbotek Anbotek Anbotek
Model No.	:	LA-N118	Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	GUANYA	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	240V, 60Hz for adapter
Test Sample No.	:	S1, S2	upotek Anbotek Anbotek Anbotek
		Operation Frequency:	111-205KHz
		Number of Channel:	20 Channels
Product Description	:	Modulation Type:	FSK Anbotek Anbotek Anbotek
1		Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	Q dBi Anbotek Anbotek Anbotek

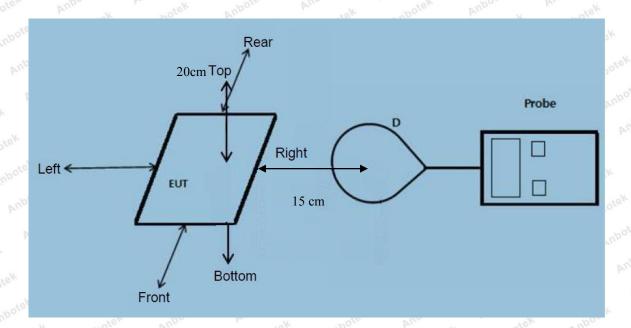
Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: GUANYA Model: GY-052000 Input: AC 100~240V 50/60Hz 0.3A
Phone	:	Output: DC 5.4V,2.8A Manufacturer: SAMSUNG Product Name: Mobile Phone Model: S7



1.6. 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

FCC ID: 2AQ3G-LA-N118

1.7. Test Equipment List

Item	Equipment	Equipment Manufacturer Model No. Serial No.		Last Cal.	Cal. Interval	
1 1 e	Magnetic field meter	NARDA	ELT-400	423623	Nov.17, 2017	1 Year
ote ² 2	Field Probe	ETS	HI-6105	N.A	Nov.17, 2017	1 Year
Anb 3.ek	Laser Data Interface	botek ETS Moote	HI-6113	N.A	Nov.17, 2017	1 Year

1.8. 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

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 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 all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

Frequency range Electric field strength (V/m)		Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging tim (minutes)	
	(A) Limits for Occ	cupational/Controlled Ex	posures		
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f ²)	6	
30-300	61.4	0.163	1.0	6	
300-1500	1	1	f/300	6	
1500-100,000	1	1	5	6	
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	ç-	
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f ²)	30	
30-300	27.5	0.073	0.2	30	
300-1500	1	1	f/1500	30	
1500-100,000	1	1	1.0	30	

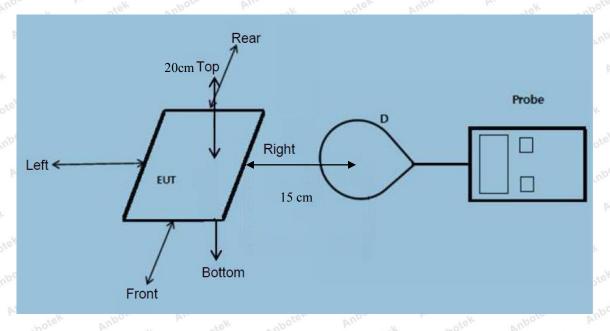
F=frequency in MHz

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).

^{*=}Plane-wave equivalent power density



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 from 111 KHz to 205 KHz
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
- 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 LED table lamp
- 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

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

P.	Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
N _S V	1%	111~205	0.48	0.51	0.69	0.77	0.83	307	614
20	potek A		Anbotek 1 42 ek	1.39	Ambatek	K Anbore	rek Aupo	botek Anbe	hotek A
K	50%	111~205	1.43	1.39	1.81	1.93	1.62	Anbotek	614
0)	99%	111~205	2.75	2.53	2.81	2.72	2.77	307	614
T.	Stand-by	111~205	0.23	0.41	0.25	0.23	0.39	307	614



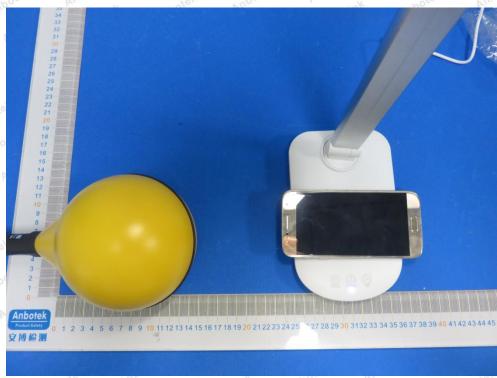
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

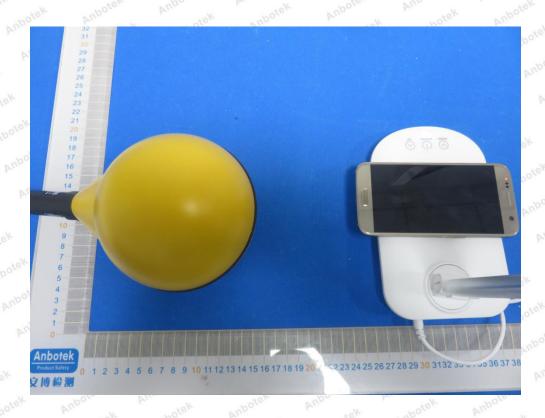
Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
And	Anbotek	Anbor	ek ab	otek Ar	boter	Aupo otek	Anbotek	Anbote
1%	111~205	0.069	0.083	0.081	0.076	0.066	0.815	1.63
Anbo	otek Anb	stek An	DOLG I	kni hotek	Anbotek	Anbou	K abote	r P
Ke. And	notek p	nbotek	Aupor	An	Anbote	Anbo	stek knb	otek
50%	111~205	0.18	0.19	0.13	0.17	0.22	0.815	1.63
Anbotek	Anboatek	Anbotek	Anbote	Ans Ans	notek p	inpotek b	upor b	, abotek
Anboten	Anbountel	anbot	sk Aup	or Au	-hotek	Anbotek	Anbor	N. Dipo
99%	111~205	0.39	0.48	0.63	0.43	0.29	0.815	1.63
iek Anb	stek Anbe	otek by	nbotek	Anboter	Anbanotel	Anbotek	Anboro	rek A
botek A	hboten A	upo otek	Anbotek	Anbolo	Y And	tek Anbo	yek Aup	-tek
Stand-by	111~205	0.48	0.49	0.65	0.52	0.48	0.815	1.63
Ame	anbotek	Anbor	or breeze	rek Ant	ofer b	up rek	abotek	Anbore



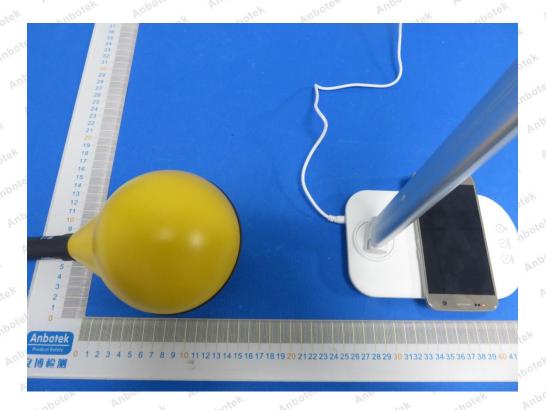
APPENDIX I -- TEST SETUP PHOTOGRAPH





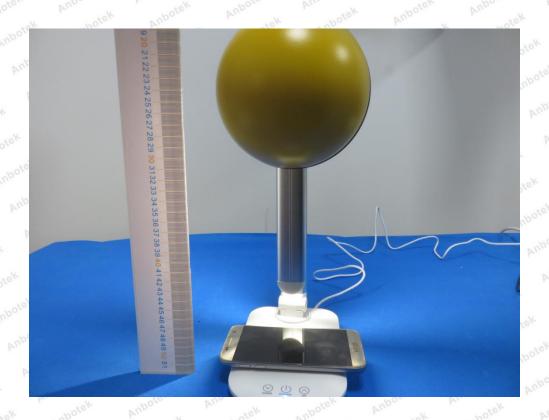












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