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FCC TEST REPORT

Client Name : Guangdong Guangyang Electric Co., Ltd.

Address No.7 Chuangyi Road, Xiaolan Town, Zhongshan,

Guangdong, P.R.China

Product Name : LED table lamp

Date : Feb. 21, 2020

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a



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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. : 6984, 7061

Trade Mark : tzumi

Rating(s) : Input: DC 9V, 2A (via adapter input: AC 100~240V, 50/60Hz, 0.5A;

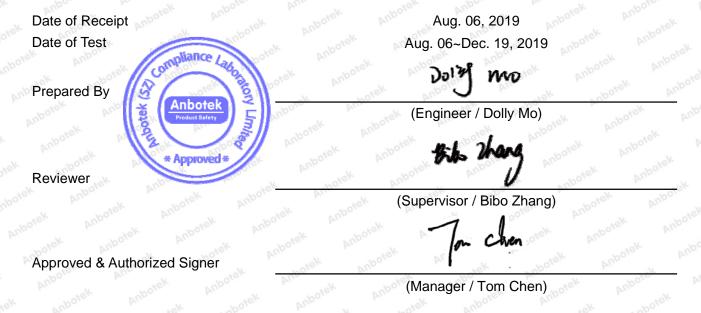
output: DC 9V, 2A)

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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Applicant	:	Guangdong Guangyang Electric Co., Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan, Guangdong, P.R.China
Manufacturer	:	Guangdong Guangyang Electric Co., Ltd.
Address	:	No.7 Chuangyi Road, Xiaolan Town, Zhongshan, Guangdong, P.R.China
Factory	:	Guangdong Guangyang Electric Co., Ltd.
Address		No.7 Chuangyi Road, Xiaolan Town, Zhongshan, Guangdong, P.R.China

1.2. Description of Device (EUT)

:	LED table lamp	Anbotek Anbotek Anbotek Anbotek
:	6984, 7061 (Note: All samples are the "6984" for test only.)	same except the model name, so we prepare
:	tzumi	Vupotek Vupotek Vupor Vupotek
:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotek
:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)
	Operation Frequency:	110.1-205KHz
	Modulation Type:	MSK
i	Antenna Type:	Inductive loop coil Antenna
	Antenna Gain(Peak):	0 dBi
	: :	6984, 7061 : (Note: All samples are the "6984" for test only.) : tzumi : AC 120V, 60Hz for adapter : 1-2-1(Normal Sample), 1-2 Operation Frequency: Modulation Type: Antenna Type:

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





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1.3. Auxiliary Equipment Used During Test

Adapter	: Model: HP18A-	0902000-AU	bolek	Anbore	Arre
	Input:100-240V	~50/60Hz 0.5A			Anbo
	Output: DC 9V,	2A			Anbore

1.4. Test Equipment List

9	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
7.2	1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	1 Year	
	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year	
	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year	

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
		otek Anbotek Anbotek Anbotek Anbotet Anb
Conduction Uncertainty	:	Uc = 3.4 dB

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, September 27, 2019.

ISED-Registration No.: 8058A

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, March 07, 2019.

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



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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)

24.	760	-16 040	500	
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (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	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	•
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	1.0	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).

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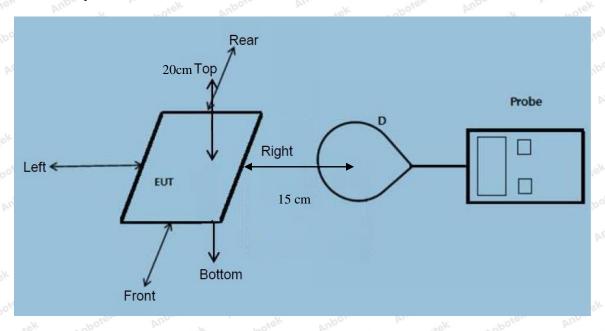
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⁼Plane-wave equivalent power density



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2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance 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 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.

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- 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.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.2



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

Temperature:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-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 (V/m)	Limits Test (V/m)
notek p	upotek Ar	bo stek	Anbotek	Anbore	bu.	ek Ant	oten Anbo	otek
1%	110.1~205	0.35	0.37	0.26	0.44	0.98	307	614
	Anbotek	Aupo, etch	. Anbor	ek Anb	ote, bu	hotek	Anbotek	
Annahotel	Anbotek	Anbo	tek vu	potek p	upote	Pur Potek	Anborek	Anbo
50%	110.1~205	1.53	1.36	1.27	1.33	1.51	307	614
	hotek Ani	otek V	ipo.	A. Anborek	Anbore.	Y Ann	rek Anbot	
O'C A	botek	Aupotek	Aupo	Morek	Anbo,	DI.	botek An	otek
99%	110.1~205	2.27	2.12	2.10	² 2.25 M	2.04	307	614
	Ann	Anbotek	Aupo.	rek A.	botek	Anbore.	Aur Posek	
Aupole	ok wote	K Anbo	lek Vul	o tek	<i>upotek</i>	Aupole	Vu. Polek	Anbo
Stand-by	110.1~205	0.49	0.35	0.76	0.44	0.58	307	614
	Pose, Yur	worek.	Anbotek	Anbo.	N. Spote	k Anbo	Le. VUL	

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

	9	000	3	6 60	pa.			O.A.
Pottory	Frequency	Test	Test	Test	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A	otek B	, ook C	Aups D	Ansorek	(A/m)	(A/m)
tek Anb	otek Anbe	sek by	nbotek	Aupoton	Vun Posek	Anbore	Aupo.	lek "
1%	110.1~205	0.046	0.052	0.047	0.045	0.064	0.815	1.63
botek		Anbore	Annabotek	Anbore	k Anbe	notek p	abotek Ar	bore
And	Anbotek	Aupo	r nho	ick Aut	of A	botek	Anbotek	Anbo. otel
50%	110.1~205	0.27	0.56	0.35	0.42	0.46	0.815	1.63
-K Anto		ek Anb	o. A.	anbotek	Anbore	Andhorek	Anbotek	Anb
V. Vun	hotek Ar	potek P	upo.	Anborek	Anbore	V. V.	rek Anbot	6k b
99%	110.1~205	0.45	0.54	0.53	0.39	0.52	0.815	1.63
Aupoten		Anbotek	Anboro	ek ab	otek An	poter A	hotek	Anbotek
Anboros	Arisa	Anbotel	Vupo.	rek pr	opotek	Auporon	Am	Anbotek
Stand-by	110.1~205	0.27	0.18	0.32	0.36	0.38	0.815	1.63
k Anbo		rick	obotek	Anboro	Air. Potek	Anboren	Anbo	14

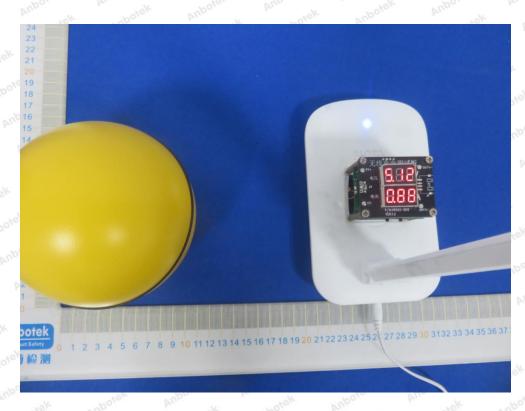


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

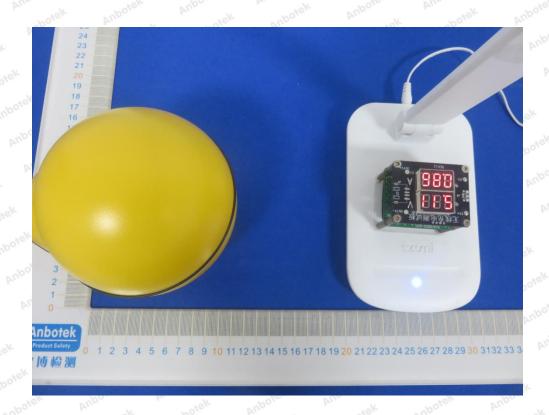




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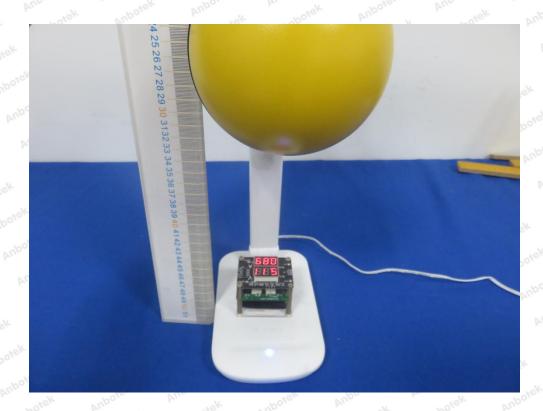




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