

## FCC TEST REPORT

For

Shenzhen Feihe Electronics Co., Ltd

LED table lamp

Model No.: H10Q, IH-QI6002B, IH-QI6002W

Prepared For : Shenzhen Feihe Electronics Co., Ltd

Address : 3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan

District, Shenzhen, China 518101

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 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 : SZAWW180710002-02

Date of Test : Jul. 10~26, 2018

Date of Report : Jul. 26, 2018



# **Contents**

1. General Information	por		Moter	Anbu		, o.g
1.1. Client Information	hotek	Anbo		K papo	ie. Yu	4
1.2. Description of Device (EUT)	h. Hotek	Aupote	Anv		botek	Yupo, K. ,
1.3. Auxiliary Equipment Used Du	ring Test	od <sub>27,1</sub>	tek Ant	10. b.	Hotek	puboter.
1.6. Description Of Test Setup	Anbo		notek	upote.	Vur.	, abotek
1.7. Test Equipment List	ek Anb	ore V	kek	botek	Aupo.	y
1.8. Description of Test Facility	194,	obotek	Anbo	w. wotek	Anbote	Anv
2. Measurement and Result		otek	Anbore	An	dyy	otek Ant
2.1. Requirements	Anbole	VII.	bote	Anbo		.notek
2.2. Test Setup	anboten	Anbe		otek Ar	por P	in fek
2.3. Test Procedure	ote	K Anbo	ro. VIII.	Nek-	Kupotek	Anbo
2.4. Test Result		,tek	poter P	iup.	, otek	Anbore
2.4.1. Equipment Approval Consid	lerations iter	n 5.b of KD	B 680106 D	01 v03	All.	K. Kobote
2.4.2. Environmental evaluation ar	nd exposure	limit accord	ing to FCC	CFR 47 part	1, 1.1307(b)	, 1.1310
APPENDIX I TEST SETUP PHOTO	GR A PH					Dr. Am



# TEST REPORT

Applicant : Shenzhen Feihe Electronics Co., Ltd

Manufacturer : Shenzhen Feihe Electronics Co., Ltd

Product Name : LED table lamp

Model No. : H10Q, IH-QI6002B, IH-QI6002W

Trade Mark : N.A.

Rating(s) : Input: DC 12V, 1.5A

(via adapter input: AC 100~240V, 50/60Hz, 0.6A; output: DC 12V, 1.5A)

Wireless output: 5W

**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)

Reviewer

(Supervisor / Calvin Liu)

Approved & Authorized Signer

(Manager / Tom Chen)

## 1. General Information

## 1.1. Client Information

Applicant	:	Shenzhen Feihe Electronics Co., Ltd
Address	:	3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan District, Shenzhen, China 518101
Manufacturer	:	Shenzhen Feihe Electronics Co., Ltd
Address	:	3/F,Bldg 3, HongFa Innovative Park HuangMaBu Community, Baoan District, Shenzhen, China 518101

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

NO. DIE		ter who he	You will have been also well as the same of the same o
Product Name	:	LED table lamp	Anboten Ann
Model No.	:	H10Q, IH-QI6002B, IH-QI6002V	10 VIII
ç a		(Note: All samples are the same e "H10Q" for test only.)	except the colour and model name, so we prepare
Trade Mark	:	N.A.	ootek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter / AC	240V, 60Hz for adapter
Test Sample No.	:	S1, S2	Anbotek Anbotek Anbotek Anbo
c		Operation Frequency:	111-205KHz
s.		Number of Channel:	20 Channels
Product Description	:	Modulation Type:	MSK Andrew Andrew
•		Antenna Type:	Loop Antenna
		Antenna Gain(Peak):	0 dBi

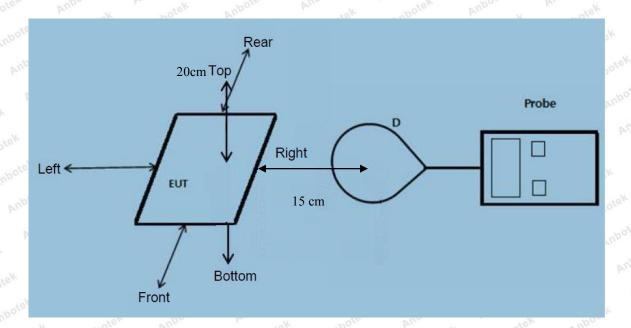
**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

#### 1.3. Auxiliary Equipment Used During Test

1	Adapter	:	Model: K25V120150U	Aupo	botek	Aupole	Vun
5.			Input: 100-240V~ 50/60Hz 0.6A				AUD
11			Output: 12.0V== 1.5A				P



#### 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

#### 1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	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 (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 <sup>2</sup> )	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	
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	1	f/1500	30
1500-100,000	1	1	1.0	30

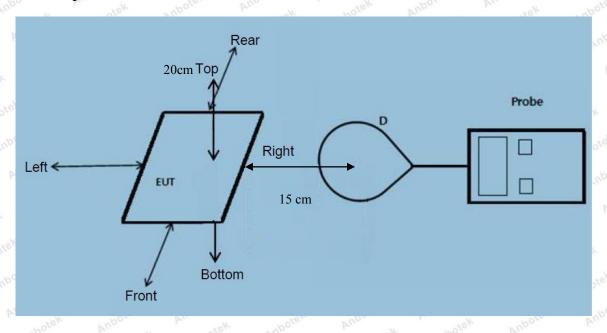
F=frequency in MHz

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).

<sup>\*=</sup>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 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

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

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)
Anbote	Anbotek	Anbore	otek Aupo	ipotek Kir	Anbotek	Anbotek	Anbotek	Anbot
1%	111~205	0.25	0.38	0.82	0.56	0.78	307	614
And	otek vi	botek	Yuporg ok	An. hotek	Anbotek	Anbo	ek nbe	
bote. A	up. hotek	Anbotek	Anbote	Ano	k Wupc	rek Aupo	botek A	botek
50%	111~205	1.34	1.25	1.52	1.35	1.31	307	614
Anboten	Anbanotek	Anbote	K Anbo	rok Will	-notek	Anbotek	Anbo	A. abott
Anbote.	K Anti-	ek anb	otek Ar	por	kir.	Anbotek	Anbo	h an'
99%	111~205	2.32	2.25	2.67	2.57	2.89	307	614
otek Ar	hotek An	po sek	Anbotek	Anbote	K Anb	ek Anbol	ek Anbo	
nbotek	Anbotek	Anbo	Anbotek	Anbore	rek Vur	ootek An	potek Ar	bo
Stand-by	111~205	0.23	0.34	0.25	0.32		307	614
Annotek	Anbotek	Anbo	rek A.	potek p	upote,	Ann	Anbotek	



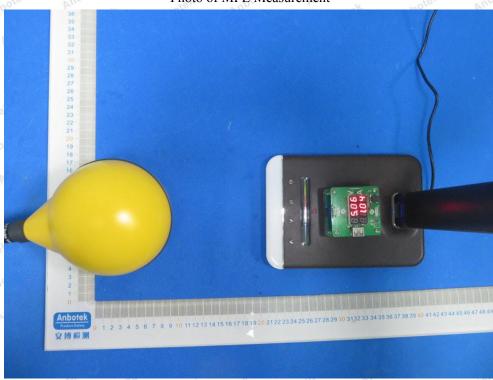
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

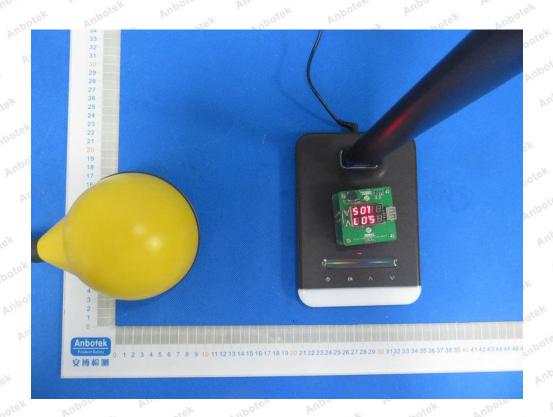
Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
Annatek	Anbotek	Aupor	ek at	otek Ar	boter	Yupo otek	abotek	Anbote
1%	111~205	0.034	0.055	0.057	0.083	0.032	0.815	1.63
Anbo	otek Anb	otek An	pore I	hotek.	Anbotek	Aupor	K abote	k P.
K Anb	-otek p	nbotek	Aupore	Am	Anbote	Aupo	tek anb	otek
50%	111~205	0.12	0.15	0.14	0.17	0.18	0.815	1.63
Anbotek	Anbo	Anbotek	Anbore	Ans	notek p	nbotek P	upo. rek	n nbotek
Anboten	Anbo	anbot	sk Aup	or Au	-hotek	Anbotek	Anbor	N. Npo
99%	111~205	0.24	0.46	0.67	0.87	0.34	0.815	1.63
tek Anb	stek Anbe	Jek by	nbotek	Anboter	Anbenotel	Anbotel	Anbore	rek by
botek P	upotek A	upo-	nbotek	Anbole	Ans	rek Anbr	tek Aup.	181
Stand-by	111~205	0.34	0.67	0.89	0.35	0.78	0.815	1.63
Ann	Anbotek	Anbor	K Pr	rek Ant	ofer P	up otek	anbotek	Aupore



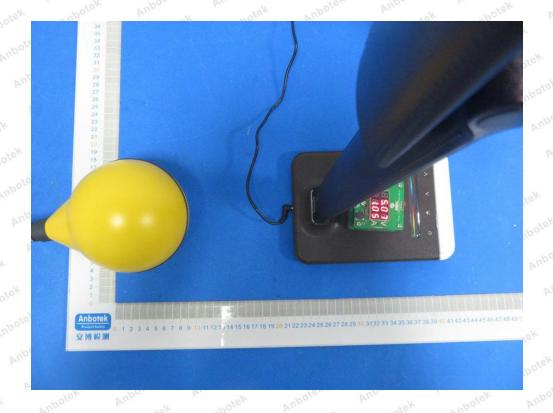
## APPENDIX I -- TEST SETUP PHOTOGRAPH

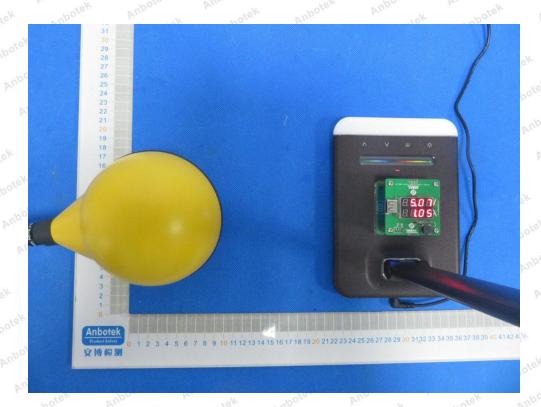




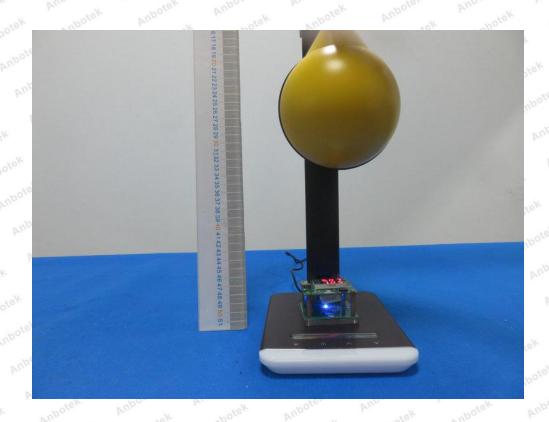












----- End of Report -----