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FCC TEST REPORT

Client Name : QUEST USA CORP

Address : 495 Flatbush Ave, Brooklyn, NY 11225, USA

Product Name : Wireless charger

Date : Apr. 29, 2021





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TEST REPORT

Applicant QUEST USA CORP

Manufacturer TELEPHONE EST(HK)CO.,LTD

Product Name Wireless charger

DSNWC01-BL, DSNWC02-BL, DSIJWCRH01, DSIJWCRH02 Model No.

N.A. Trade Mark

Input: DC 5V/2A, DC 9V/1.65A Rating(s) Wireless output: 5W, 7.5W, 10W

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.

Date of Receipt	Apr. 14, 2021
Date of Test	Apr. 14~24, 2021
	Ella Liang
Prepared By	Elen Dion.
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	Bib Zhang
Reviewer	Anborek Anbo
	(Supervisor / Bibo Zhang)
	Tomber
Approved & Authorized Signer	inbote Anbotek Anbotek Anbo
And otek Anbotek Anbotek	(Manager / Tom Chen)

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Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05



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1. General Information

1.1. Client Information

Applicant	: QUEST USA CORP
Address	: 495 Flatbush Ave, Brooklyn, NY 11225, USA
Manufacturer	: TELEPHONE EST(HK)CO.,LTD
Address	Room 706, 7F, FuLi Tianhe commercial building, Linhe East Road and Tianhe District, Guangzhou, China
Factory	: Telephone Est Electronics Factory(Zhong Shan)
Address	NO.2, Heyuan, Lianfeng Road, Xiaolan Town, Zhongshan City, Guangdong, China.

1.2. Description of Device (EUT)

Product Name	:	Wireless charger	tek Anbotek Anbotek Anbotek Anbote
Model No.	:	No.	02-BL, DSIJWCRH01, DSIJWCRH02 e same except the model name and the appearance, 01-BL" for test only.)
Trade Mark	:	N.A.	Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V, 60Hz for adapte	er Anbotek Anbotek Anbotek Anbote
Test Sample No.	:	1-2-1(Normal Sample), 1-	-2-1(Engineering Sample)
C		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK
Description	tion : Antenna Type:	Antenna Type:	Inductive loop coil Antenna
		Antenna Gain(Peak):	0 dBi Anbotek Anbotek Anbotek Anbotek
VI. 1711.		100	Charles Ville

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





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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: Anker Model: A2013
>4		Input: 100-240V~50/60Hz 0.7A Output: DC 3.6-6.5V, 3A/6.5-9V, 2A/9-12V, 1.5A
Wireless	:	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
charging load		M/N: CD2531
×		Power: 5W/7.5W/10W/15W
		Last Cal.: Oct. 26, 2020
		Cal. Interval: 1 Year

1.4. Test Equipment List

	Item	Equipment	Manufacturer	nufacturer Model No. Serial N		Last Cal.	Cal. Interval	
10	1 tel	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year	
	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year	
	3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year	

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	Anborek	Pupo, vek	abotek I
		Ur = 3.8 dB (Vertical)			
		Anbore And aborek	Anbotek	Anbu	anbotek
Conduction Uncertainty	:	Uc = 3.4 dB	k Aupo	ier Anbu otek	Anbote

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 30, 2020.

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, September 30, 2020.

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

Shenzhen Anbotek Compliance Laboratory Limited





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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)

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	f/300	6
1500-100,000	1	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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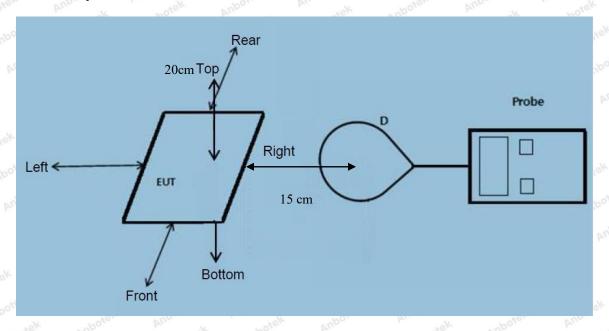
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⁼Plane-wave equivalent power density



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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
- (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.

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 transmission system comprising a charging system with only two primary coils will only detect and allow between a single coil pair.
- 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 exposure conditions.
- 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 part 1.1307(b), 1.1310

Temperature:	abotek	23.5° C	Arr. Potek	Relative Humidity:	53%
Pressure:	notek	1012 hPa	Ann	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)
sk Mup	PLUS VILLE	Lotek D	nbotek	Vupo,	photek	Anbore	Vr Pur	ek
1%	110.1~205	0.42	0.47	0.50	0.43	0.54	307	614
nbotek		Anna	Anbotek	Aupo,	rek Air	potek	inpoter of Vi	hotek
rupotek	Anbore	Anshotel	Anbot	PL VUD	rek p	anbotek	Aupore	Aur
50%	110.1~205	1.43	1.27	1.33	1.42	1.33	307	614
k wupo		V. VIII	hotek	Anbotek	Anbo. otek	A. Anbore	Anbore	PU.
otek N	ipotek Au	DOLO V	hotek	Anbotek	Aupo	ek nab	hek Anbor	1
99%	110.1~205	2.17	2.27	2.13	2.03	2.55	307	614
inpo.		Aupote.	Ans	k Anbo	lek Yu	io. P	abotek	Anbore.
Anbo	anbotek	Anbore	Vr Vier	otek A	botek	Yupo.	Anborek	Aupore
Stand-by	110.1~205	0.42	0.43	0.27	0.38	0.29	307	614
Anbo		otek Ar	bote	run	anbotek	Anbo.	ok hote	jk p

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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)
tek vuk	Otek Anbe	ton to	notek ,	Anbotok	Amboro	All	Anboten	ok bo
1%	110.1~205	0.021	0.039	0.043	0.058	0.044	0.815	1.63
botek	Anbotek	Anbore	Air	Anbore	k Anbe	work p	obotek Ar	porc
Ann hotek	Anbotek	Aupo,	r anbo	ick but	ole V	hotek	Anborek	Aupo.
50%	110.1~205	0.37	0.42	0.34	0.30	0.51	0.815	1.63
ok bu	orek Anbor	er Anb	atek r	anbotek	Anbore	Ans	Anbotek	Ant
	-botek An	poten	up, otek	nnbotek	Anbore	ek Pur	rek Anbot	Sk
99%	110.1~205	0.47	0.52	0.53	0.34	0.35	0.815	1.63
	Ann	Anbotek	Anbo	ek vup	otek Pi	pore A	hotek	Anbotek
Anbore	Pur Potek	Anbote	Aupo	rek .	obotek	Anbois	Aur	Anbore
Stand-by	110.1~205	0.027	0.031	0.042	0.057	0.043	0.815	1.63
K Anbo	No. And	otek A	hbotek	Aupo.	abotek	Anbore.	V And	N- 0

Note: (1)All the situation(full load, half load and empty load) has been tested, only the worst situation (full load, Wireless Output: 10W) was recorded in the report.

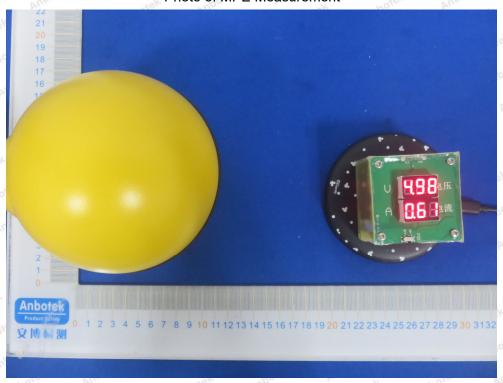
Code: AB-RF-05-a

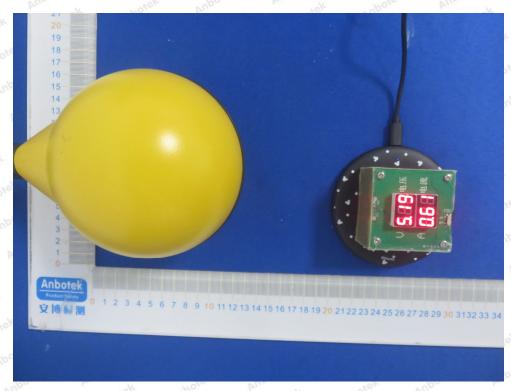
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APPENDIX I -- TEST SETUP PHOTOGRAPH

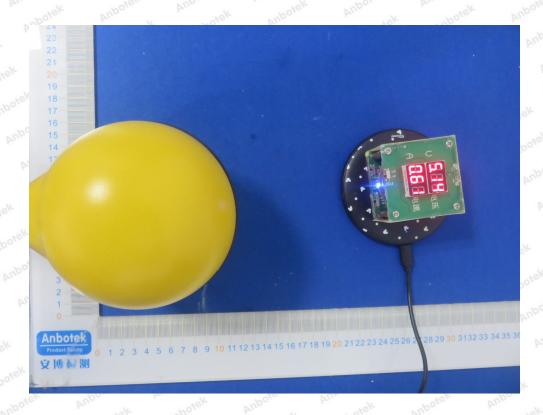
Photo of MPE Measurement

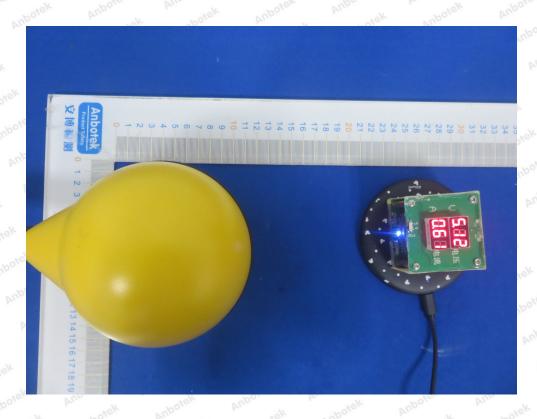




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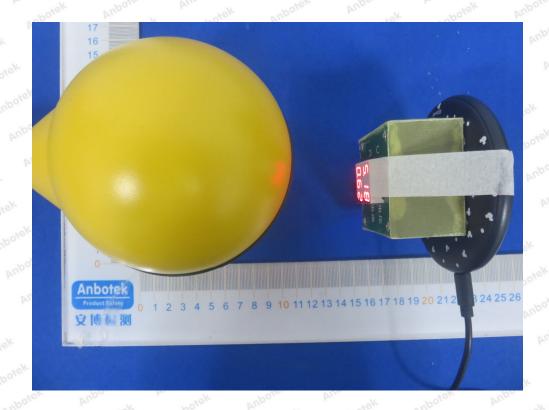






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