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FCC Test Report

QUEST USA CORP Applicant

Address 495 Flatbush Ave, Brooklyn, NY 11225, USA

Product Name Wireless charger

May 27, 2023 **Report Date**



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. Tel:(86) 0755-26066440 Fax:(86) 0755-26014772 Email:service@anbotek.com

Code:AB-RF-05-b





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TEST REPORT

Applicant	: QUEST USA CORP
Manufacturer	: TELEPHONE EST(HK)CO.,LTD
Product Name	: Wireless charger
Model No.	: IJ10125-DG, IJ10126-DG
Trade Mark	IJOY hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Rating(s)	Input: 5V- 2A/9V- 1.67A Output: 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 Date of Test May 04, 2023 May 04~ May 12, 2023 Ju Ju Hong

Prepared By

(TuTu Hong)

(Kingkong Jin)

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date		
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1. General Information

1.1. Client Information

Po.	261	
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.
	Address Manufacturer Address Factory	Address:Manufacturer:Address:Factory:

1.2. Description of Device (EUT)

Product Name	:	Wireless charger
Model No.	:	IJ10125-DG, IJ10126-DG (Note: All samples are the same except the model number& appearance color, so we prepare "IJ10125-DG" for test only.)
Trade Mark	:	IJOY nborek Anborek Anborek Anborek Anborek Anborek Anb
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	110.1-205KHz
Modulation Type	:	FSK Anborek Andrek Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi (Provided by customer)
Remark: 1) For a more or the User's Manual.	e det	tailed features description, please refer to the manufacturer's specifications

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1.3. Auxiliary Equipment Used During Test

	Description	Rating(s)
P.	Adapter	Model: MDY-11-EX
	Anbo. At botek An	Input: 100-240VAC,50-60Hz, 0.7A
	Anbore Anc otek	Output: 5V=3A,9V=3A,12V=2.25A,20V=1.35A,11V=3A
y.	Wireless charging load	Manufacturer: Shenzhen Ouju Technology Co., Ltd.
	ek abotek Anbor	M/N: CD2577
0	K sotek anbotek	Power: 5W/7.5W/10W/15W

1.4. Test Equipment List

- Vo.0 1	194	101		V- 10.	Page 1	16
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field	NARDA	EHP-200A	180ZX10202	Oct. 17, 2022	1 Year
rek.	Analyzer	sk unbotek	Anbor	botek	Anboten And	otek N

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	Anbotek	Anbote.	Anbotek	Anbotek
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anboi	Anbotek	Anboter.	Anbote

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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 registered 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.

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.

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.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)				
	(A) Limits for Occupational/Controlled Exposures							
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 General Population/Uncontrolled Exposure							
03.134	614	1.63	*(100)	30				

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 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

*=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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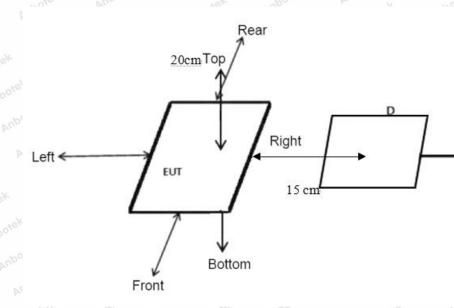
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2.2. Test Setup



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 wattsThe 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

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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 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.

2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310
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Temperature:	22.5°C	Relative Humidity:	49 %
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)
1%	110.1-205	0.356	0.446	0.396	0.406	0.526	307	614
50%	110.1-205	1.438	1.878	1.368	1.498	1.668	307	614
99%	110.1-205	2.400	2.800	2.410	2.360	2.820	307	614
Stand-by	110.1-205	0.434	0.584	0.424	0.414	0.554	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)
1%	110.1-205	0.035	⁰ 0.057	0.063	0.047	0.057	0.815	1.63
50%	110.1-205	0.388	0.478	0.378	0.378	0.548	0.815	1.63
99%	110.1-205	0.424	0.604	0.494	0.314	0.304	0.815	1.63
Stand-by	110.1-205	0.524	0.344	0.444	0.564	0.424	0.815	1.63

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

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

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