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FCC Test Report

Applicant : TELEPHONE EST (HK) CO., LTD

Room709, 7F, FuLi tianhe commercial building,

Address : Linhe, East Road and tianhe district,

Guangzhou, China

Product Name : 15W Magnetic Car Wireless Charger

Report Date : Sept. 22, 2023

Shenzhen Anbotek Con pha



Laboratory Limited







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TEST REPORT

TELEPHONE EST (HK) CO., LTD Applicant

Manufacturer Telephone Est Electronics Factory (Zhong Shan)

Product Name 15W Magnetic Car Wireless Charger

Test Model No. : 2IHCM0840

2IHCM0840B0G7, 2IHCM0840W0G7 Reference Model No.

Trade Mark N/A

Input: 5V-2A, 9V-2A Rating(s) Output: 15W Max

Test Standard(s) FCC Part 1.1310, 1.1307(b)

KDB680106 D01 RF Exposure Wireless Charging Apps v03r01 Test Method(s)

TCB Workshop November 2019

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 Sept. 05, 2023

Date of Test Sept. 06, 2023 to Sept. 08, 2023

Prepared By

Idward pan

Approved & Authorized Signer (Edward Pan)

Stella Zhu





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Revision History

Report Version				Description			Issued Date		
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1. General Information

1.1. Client Information

Applicant	:	TELEPHONE EST (HK) CO., LTD
Address	:	Room709, 7F, FuLi tianhe commercial building, Linhe, East Road and tianhe district, Guangzhou, China
Manufacturer	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China
Factory	:	Telephone Est Electronics Factory (Zhong Shan)
Address	:	No.2 Heyuan Shengfeng Road,Xiaolan Town, Zhongshan, China

1.2. Description of Device (EUT)

Product Name	:	15W Magnetic Car Wireless Charger
Test Model No.	:	2IHCM0840
Reference Model No.	:	2IHCM0840B0G7, 2IHCM0840W0G7 (Note: All samples are the same except the model number and color, so we prepare "2IHCM0840" for test only.)
Trade Mark	:	N/A Anborek Anborek Anborek Anborek An
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	110.1-205kHz
Modulation Type	:	FSK Anborek Anborek Anborek Anborek
Antenna Type	:	Inductive loop coil Antenna
Antenna Gain(Peak)	:	0 dBi otek Anborek Anborek
Remark: 1) All of the F	RF	specification are provided by customer. 2) 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

Title	Manufacturer	Model No.	Serial No.		
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	Anborek Anborek		
Xiaomi 67W adapter(CE)	Xiaomi	MDY-13-ES	WA622091100375G		

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	Oct. 17, 2022	1 Year

1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)	:	+/-0.04282(A/m)	upotek	Anbotek	Anbotek	Anbotek
Electric Field Reading(V/m)	:	+/-0.03679(V/m)	Anborek	ak Anbotek	Anbotek	Aupotek

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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

Code:AB-RF-05-b
Hotline
400-003-0500
www.anbotek.com.cn





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1.7. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





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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)

710.	VUL - VK	No. N.	710	V U
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	1	5	6
	(B) Limits for Genera	Population/Uncontrolle	ed Exposure	9-
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).

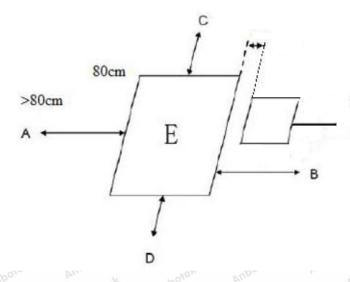




^{*=}Plane-wave equivalent power density

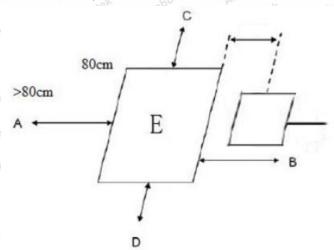


2.2. Test Setup



Note:

H-field data are taken along all three axes the device, from 0 cm to 10 cm, in 2 cm minimum increment measured from the edge of the device, with one axis coincident with the axis of the main coil.



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT. (probe radius is 4.75cm)







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2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance (from 0 cm to 10 cm, in 2 cm minimum increment) which is between the edge/top surface of the charger and the edge of probe. and the measurement probe was placed at required test distance 15cm and 20cm which is between the edge of the charger and the geometric center of probe.
- 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 TCB Workshop November 2019 and KDB 680106 D01 v03r01.

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 15W.
- 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 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

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

Between the edge/top surface of the charger and the edge of probe

H-Field Strength:

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Test distance	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)
Aupo	1%	110.1-205	0.056	0.059	0.100	0.046	0.089	0.815	1.63
stek An	50%	110.1-205	0.644	0.432	0.448	0.411	0.460	0.815	1.63
0cm	99%	110.1-205	0.635	0.440	0.477	0.422	0.465	0.815	1.63
ybc rek	Stand-by	110.1-205	0.210	0.228	0.193	0.173	0.190	0.815	1.63
Anbore	1%	110.1-205	0.057	0.061	0.102	0.047	0.090	0.815	1.63
Anbore	50%	110.1-205	0.630	0.418	0.434	0.397	0.445	0.815	1.63
2cm	99%	110.1-205	0.639	0.444	0.483	0.426	0.471	0.815	1.63
ak at	Stand-by	110.1-205	0.204	0.221	0.187	0.167	0.184	0.815	1.63
br.	1%	110.1-205	0.050	0.056	0.098	0.041	0.084	0.815	1.63
poter	50%	110.1-205	0.634	0.421	0.438	0.400	0.447	0.815	1.63
4cm	99%	110.1-205	0.636	0.440	0.479	0.423	0.467	0.815	1.63
hotek	Stand-by	110.1-205	0.198	0.216	0.184	0.162	0.180	0.815	1.63
Pur Ole	1%	110.1-205	0.039	0.045	0.088	0.030	0.069	0.815	1.63
Anbe	50%	110.1-205	0.625	0.412	0.429	0.390	0.437	0.815	1.63
6cm	99%	110.1-205	0.628	0.433	0.470	0.414	0.458	0.815	1.63
otek p	Stand-by	110.1-205	0.204	0.223	0.189	0.169	0.188	0.815	1.63
Anbotek	1%	110.1-205	0.043	0.049	0.093	0.035	0.074	0.815	1.63
Aupo	50%	110.1-205	0.622	0.409	0.428	0.387	0.436	0.815	1.63
8cm	99%	110.1-205	0.627	0.431	0.468	0.410	0.456	0.815	1.63
Anbotel	Stand-by	110.1-205	0.203	0.221	0.187	0.167	0.185	0.815	1.63
lk "apo	1%	110.1-205	0.032	0.036	0.082	0.022	0.064	0.815	1.63
1000	50%	110.1-205	0.631	0.418	0.436	0.396	0.443	0.815	1.63
10cm	99%	110.1-205	0.629	0.432	0.469	0.410	0.457	0.815	1.63
upoten	Stand-by	110.1-205	0.219	0.216	0.185	0.168	0.182	0.815	1.63





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Between the edge of the charger and the geometric center of probe

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	0.036	0.039	0.082	0.026	0.068	0.815	1.63
50%	110.1-205	0.623	0.411	0.427	0.387	0.435	0.815	1.63
99%	110.1-205	0.623	0.426	0.463	0.409	0.450	0.815	1.63
Stand-by	110.1-205	0.209	0.206	0.177	0.159	0.174	0.815	1.63

Note: All modulation and situation(full load, half load and empty load) has been tested, only the worst situation (full load 15W) 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

