

RED-Health Test Report

Client Name :

Address :

Product Name : Wireless Charger

Date : Jun. 16, 2021

Shenzhen Anbotech Compliance Laboratory Limited



THIS DOCUMENT WAS REDACTED WITH THE PRODUCT TIP REDACTION TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE DOCUMENT THE ORIGINAL DOCUMENT WAS AVAILABLE ONLY BE MADE AVAILABLE BY THE DOCUMENT OWNER.

Contents

1. GENERAL INFORMATION.....	4
1.1. Client Information.....	4
1.2. Description of Device (EUT).....	4
1.3. Auxiliary Equipment Used During Test.....	5
1.4. Test Equipment List.....	5
1.5. Description of Test Facility.....	5
2. GENERAL PRODUCT INFORMATION.....	6
2.1. Basic Restriction.....	6
2.2. Table for Filed Antenna.....	6
3.TEST RESULT.....	7
3.1. Limit.....	7
3.2. Test results.....	8

TEST REPORT

Applicant :
Manufacturer :
Product Name : Wireless Charger
Model No. :
Trade Mark : N.A
Rating(s) : Input: DC 5V/2A
Wireless output: 5W

Test Standard(s) : EN IEC 62311: 2020

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 EN IEC 62311: 2020 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

May 13, 2021

Date of Test

May 13~May 27, 2021

Prepared By

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Kingkong Jin

(Kingkong Jin)



1. GENERAL INFORMATION

1.1. Client Information

Applicant	:	
Address	:	
Manufacturer	:	
Address	:	
Factory	:	
Address	:	

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger	
Model No.	:		
Trade Mark	:	N.A	
Test Power Supply	:	AC 230V, 50Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1-205KHz
		Modulation Type:	FSK
		Antenna Type:	Inductive loop coil 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

Adapter	:	M/N: A2013 Input: AC 100-240V, 0.7A, 50-60Hz Output: 3.6-5.5V=3A/ 6.5-9V=2A/ 9-12V=1.5A
Wireless charging load	:	Manufacturer: Shenzhen Oju Technology Co., Ltd. M/N: CD2577 Power: 5W/7.5W/10W/15W Last Cal.: Oct. 26, 2020 Cal. Interval: 1 Year

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	NARDA	ELT-400	N-0859	Nov. 02, 2020	1 Year

1.5. 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, 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.518128

THIS DOCUMENT WAS REDACTED WITH THE PRODUCTIP REDACTION TOOL ON 2022-02-17. AT THE TIME OF GENERATING THE ORIGINAL DOCUMENT WAS AVAILABLE BY THE DOCUMENT OWNER.

2. GENERAL PRODUCT INFORMATION

2.1. Basic Restriction

The essential requirements of Directive 99/519/EC in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure. EN 50371:2002 Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields. The average power of EUT is less than 20mW then comply with basic restriction (1999/519/EC) without test.

2.2. Table for Filed Antenna

No.	Antenna Type	Gain (dBi)
1.	Inductive loop coil Antenna	0

3.TEST RESULT

3.1. Limit

Council Recommendation 99/519/EC Annex III

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8Hz	1000	$3,2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25Hz	1000	$4000 / f$	$5000 / f$	-
0.025Hz-0,8kHz	$250 / f$	$4 / f$	$5 / f_{6,25}$	-
0,8-3kHz	$250 / f$	5	6,25	-
3-150kHz	87	5	6,25	-
0,15-1MHz	87	$0.73 / f$	$0.92 / f$	-
1-10MHz	$87 / f_{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400MHz	28	0.073	0,092	2
400-2000MHz	$1,375 f_{1/2}$	$0,0037 f_{1/2}$	$0,0046 f_{1/2}$	$f/200$
2-300GHz	61	0,16	0,20	10

Note:

(1)As indicated in the frequency range column.

(2)For frequencies between 100kHz and 10GHz, Seq, E2, H2 and B2 are to be averaged over any six-minute period.

(3)For frequencies exceeding 10GHz, Seq, E2, H2 and B2 are to be averaged over any 68/1.05-minute period (.in GHz).

(4)No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

3.2. Test results

Temperature:	24° C	Relative Humidity:	55 %
Pressure:	1012 hPa	Test Voltage:	AC 230V, 50Hz for adapter

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Test Position	Probe Measure Result (V/m)			Limits (V/m)	Result
	Full Load	Zero Charge	Intermediate Charge		
A	4.70	6.55	4.61	87	Pass
B	5.56	3.68	4.47	87	Pass
C	2.85	2.35	1.33	87	Pass
D	4.34	1.40	4.09	87	Pass
E	1.62	3.83	3.27	87	Pass
F	3.48	3.64	2.62	87	Pass

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Test Position	H-Filed Strength Measure Result						Limits (A/m)	Result
	Full Load		Zero Charge		Intermediate Charge			
	uT	A/m	uT	A/m	uT	A/m		
A	0.037	0.030	0.058	0.046	0.124	0.099	5	Pass
B	0.141	0.113	0.186	0.149	0.178	0.142	5	Pass
C	0.039	0.031	0.095	0.076	0.240	0.192	5	Pass
D	0.291	0.233	0.192	0.154	0.235	0.188	5	Pass
E	0.145	0.116	0.160	0.128	0.191	0.153	5	Pass
F	0.206	0.165	0.211	0.169	0.170	0.136	5	Pass

Note: A/m = uT / 1.25

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