

TECHNICAL REPORT



Report No.: EMC2003151-03
File Reference No.: 2020-03-31

Applicant:

Product: wireless chargers

Model No.:

Brand Name: N/A

Test Standards: EN 50364:2010

Test Result: The health evaluation has been performed on the submitted samples and found in compliance with council RE Directive 2014/53/EU

Approved By

A handwritten signature in black ink, appearing to read 'Terry Tang', is written over a horizontal line.

Terry Tang

EMC Manager

Dated: March 31, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES.

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (+86 755)8344 8688 Fax (+86 755)8344 2996 Email:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for advertizing. The client to whom the report is issued may, however, show or send it, or a certified copy thereof prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES, to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES, will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

1.2 Testing Laboratory

SHENZHEN TIMEWAY TESTING LABORATORIES.

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel: +86 755 83448688 Fax :+86 755 83442996

Internet: www.timewaytech-lab.com

Site on File With the Federal Communications and Commission – United States

Registration Number: 744189

1.3 Details of Applicant

1. 4 Application Details

Date of Receipt of Test Item: March 18, 2020

Date of Receipt of Test Item: March 18, 2020

Date of Test: March 18, 2020~ March 31, 2020

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1.5 Test Item

Brand Name: N/A

Model No.:

Additional Model: N/A

Description: wireless chargers

Additional Information

Frequency: 111.5-205 kHz

Modulation Type: MSK

Power Supply: DC5V from USB Port

Operation Distance: N/A

Resolution: N/A

Extreme Temp. Tolerance: -20°C to 55°C

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The evaluation has been performed on the EUT, pursuant to the relevant requirements of the following Document and the harmonized EN standard(s) covering essential requirements under article 3.1(a) of The Radio Equipment Directive, 2014/53/EU.

Identity	Document Title	Version
Council Recommendation of 12 July 1999(1999/519/EC)	On the limitation of exposure of the general public to electromagnetic fields (0Hz to 300GHz)	1999
EN 50364	Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz	2010

Limit: According to EN 50364, the criteria listed in the below table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 1999/519/EC.

Table 2
Reference levels for electric, magnetic and electromagnetic fields
(0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	—
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—
0,8-3 kHz	$250/f$	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	$0,73/f$	$0,92/f$	—
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Notes

1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, S_{eq} , E^2 , H^2 , and B^2 are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, S_{eq} , E^2 , H^2 , and B^2 are to be averaged over any $68/f^{1.05}$ -minute period (f in GHz).
4. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.

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Measurement Distance: 3cm

Measurement Data

Electric Field Emissions

Test Position	Test Distance (cm)	Probe Measure Result (A/m)	Limit (A/m)
Front	3	0.0863	4.19
Rear	3	0.0886	4.19
Left	3	0.0861	4.19
Right	3	0.0989	4.19
Top	3	0.0921	4.19
Bottom	3	0.0878	4.19

Test Result:

The measurement results comply with the limit of EN 50364:2010.

Issued by SHENZHEN TIMEWAY TESTING LABORATORIES.

Approved By

Brown Lu, Engineering

Name/title

Reviewed By

Terry Tong
EMC Manager

Name/title

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