

TECHNICAL REPORT



Report No.: EMC1807094-03

File reference No.: 2018-07-16

Applicant:

Product: Wireless charger

Model No.: W2F

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 blue ink, appearing to read 'Terry Tang', is written over a circular blue stamp.

Terry Tang

EMC Manager

Dated: July 16, 2018

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.

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong 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.

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

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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.

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong 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: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.3 Details of Applicant

Name:

Address:

1.4 Application Details

Date of Receipt of Application: July 13, 2018

Date of Receipt of Test Item: July 13, 2018

Date of Test: July 13, 2018~ July 16, 2018

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1.5 Test Item

Manufacturer:

Address:

Brand Name: N/A

Model No.: W2F

Additional Model: N/A

Description: Wireless charger

Additional Information

Frequency: 111.5-205 kHz

Modulation Type: MSK

Power Supply: DC5V from a power supply

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:

- f as indicated in the frequency range column.
- 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.
- 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).
- 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	0.0982	4.19
Rear	3	0.1026	4.19
Left	3	0.0989	4.19
Right	3	0.0976	4.19
Top	3	0.1033	4.19
Bottom	3	0.0951	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

TANG
EMC Manager

Name/title

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