Microtest
微测检测

Test Report

Report No.: MTi190617E052

Date of issue: June. 17, 2019

Sample Description: wireless charger power bank

Model(s):

Applicant:

Address:

Date of Test: June. 06, 2019 to June. 17, 2019

Shenzhen Microtest Co., Ltd.
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TABALE OF CONTENTS

TEST RESULT CERTIFICATION	
Applicant's name:	
Address:	
Manufacture's Name:	
Address:	
Product name:	wireless charger power bank
Trademark:	**N/A**
Model name:	
Standards:	EN 62311: 2008

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the R&TTE requirements. And it is applicable only to the tested sample identified in the report.

Tested by: Demi Mu June. 17, 2019

Reviewed by: Smith Chen June. 17, 2019

Approved by: Tom Xue June. 17, 2019

1. General description

1.1 Feature of equipment under test (EUT)

Product name:	wireless charger power bank
Model name:	
Power source:	DC 5V form AC 230V/50Hz
Battery:	DC 3.7V 8000mAh
Specification:	N/A

1.2 Testing site

Test laboratory:	Shenzhen Microtest Co., Ltd.
Laboratory location:	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
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2. EN 62311requirement

2.1 General information

The essential requirements of Directive 99/5/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 62311:2008 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz).

2.2 Limits

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 S_{eq} (W/m^2)
0-1Hz	-	3.2×10^4	4×10^4	-
1-8Hz	10000	$3.2\times10^4/f^2$	$4\times10^4/f^2$	-
8-25Hz	10000	4000/f	5000/f	-
0.025-0.8kHz	250/f	4/f	5/f	-
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	$1.375\ f^{1/2}$	$0.037f^{1/2}$	$0.0046f^{1/2}$	f/200
2-300GHz	61	0.16	0.2	10

Note:

(1) As indicated in the frequency range column.

(2) For frequencies between 100 kHz and 10GHz, Seq, E2, H2 and B2 are to be averaged overany 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 fieldstrengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

2.3 Result

Mode	Output power e.i.r.p. (dBm)	Output power e.i.r.p. (mW)	Power Density (S) (mW/cm2)	Limit (S) (mW/cm2)	Result
Charging mode	-52.04	0.000006	0.000000002	10	Pass

Note:

1. Limit: $10W/m^2=10000mW/(100*100cm)^2=1mW/cm2$
2. **$S = PG / 4\pi R^2$**

   P = Power input to antenna

   G = Antenna Gain

   R = distance to the center of radiation of antenna (in meter) = 20cm

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