

MerchSource, LLC.

TEST REPORT

SCOPE OF WORK

EMC TESTING-1017024

REPORT NUMBER

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Room 02, & 101/E201/E301/ E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China Telephone: +86 20 8213 9688 Facsimile: +86 20 3205 7538

www.intertek.com.cn

Applicant Name & : MerchSource, LLC.

Address 7755 Irvine Center Drive, Suite 100, Irvine, CA 92618

Manufacturing Site : ThreeSixty Sourcing Ltd.

28/F., Harbourside HQ, 8 Lam Chak St., Kowloon Bay, Hong Kong

Intertek Report No: 230414082GZU-002 FCC ID: 2AEVM1017024

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Sample Description

Product : Hair Vacuum

Model No. : 1017024, 101XXXX (where XXXX can be digits 0000-9999 which

represent different customers).

Electrical Rating : Input: 5Vdc, 1A

Wireless output: 5W

Serial No. : Not Labeled
Date Received : 14 April 2023

Date Test : 27 April 2023-10 May 2023

Conducted

Prepared and Checked By Approved By:

Dean Liu Strong Yao

Project Engineer Manager

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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

When determining the test results, measurement uncertainty of tests has been considered. All models are the same, except the model name, 1017024 was selected for fully testing.



2.0 General Description

2.1 Product Description

Operating Frequency 143KHz
Type of Modulation: ASK

Antenna Type Inductive loop coil antenna

Power Supply: Input: 5Vdc, 1A

Wireless output: 5W

Power cord: wires unscreened cable

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by MerchSource, LLC. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below: Support Equipment:



Equipment	Model No.	Rating	Supplier
Hair Vacuum	1017024		Applicant

Remark: Hair Vacuum was the only client device. It will be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pre-test mode	Description
Standby Mode	kept transmitting continuously
Charging Mode	Hair Vacuum is charging at low battery power, middle and high battery power respectively, keep transmitting continuously.

3.0 EMF TEST

3.1 Standard Requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	0.3-3.0 614		(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	0.3-1.34 614		(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density



3.2 Test Data

Input Voltage: 120V/60Hz Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

H-Filed Strength:

Test	Probe Measu	re Result (A/m)		50% Limit	Limit (A/m)
Position	WPT client	WPT client	WPT client	(A/m)	
	in Low	in middle	in high		
	battery	battery	battery		
	power	power	power		
Side 1	0.041	0.041	0.043	0.815	1.63
Side 2	0.037	0.038	0.041	0.815	1.63
Side 3	0.038	0.043	0.035	0.815	1.63
Side 4	0.048	0.041	0.036	0.815	1.63
Тор	0.043	0.039	0.035	0.815	1.63

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2023/03/07	2024/03/07