

UMAGE Inc.

TEST REPORT

SCOPE OF WORK

EMC TESTING-4182, 4183

REPORT NUMBER

230608076GZU-002

ISSUE DATE

01-July-2023

[REVISED DATE]

[-----]

PAGES

8

DOCUMENT CONTROL NUMBER

© 2017 INTERTEK



TEST REPORT

Applicant Name & : UIMAGE Inc.
Address : 185 Wythe Ave. 2.fl. Brooklyn, NY 11249
Manufacturing Site : Same as applicant
Intertek Report No: 230608076GZU-002
FCC ID: 2A33B-41824183

Test standards

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

Sample Description

Product : wireless charger
Model No. : 4182, 4183
Electrical Rating : Input: 5V-9V DC 1.67-2A Output: 10W MAX
Serial No. : Not Labeled
Date Received : 08 June 2023
Date Test : 28 June 2023-01 July 2023
Conducted

Prepared and Checked By

Richard Liu

Richard Liu

Engineer

Approved By:

Dean Liu

Dean Liu

Project Engineer

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT

CONTENT

TEST REPORT	1
CONTENT	3
1.0 TEST RESULT SUMMARY	4
2.0 GENERAL DESCRIPTION.....	5
2.1 PRODUCT DESCRIPTION	5
2.2 TEST FACILITY.....	5
2.3 EUT EXERCISING SOFTWARE.....	5
2.4 SPECIAL ACCESSORIES.....	5
2.5 EQUIPMENT MODIFICATION	5
2.6 SUPPORT EQUIPMENT LIST AND DESCRIPTION	5
3.0 EMF TEST.....	7
3.1 STANDARD REQUIREMENT.....	7
3.2 TEST DATA.....	8
4.0 TEST EQUIPMENT LIST	8

TEST REPORT

1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

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

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

Model 4182 and Model 4183 are just different colors.

Select model 4182 as full test.

TEST REPORT

2.0 General Description

2.1 Product Description

Operating Frequency	112-149.1KHz
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Power Supply:	Input: 5V-9V DC 1.67-2A Output: 10W MAX
Power cord:	1m USB 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 UIMAGE Inc. 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

TEST REPORT

This product was tested with corresponding support equipment as below:

Support Equipment:

Equipment	Model No.	Rating	Supplier
WPT client	Tx-test2	DC 12V/0.83A,DC 7.5V/1.06A,DC 5V/1A	Intertek
Adaptor	HW-200325CP0	100-240V,50/60Hz,1.8A	Intertek

Cable:

Description	Model No.	Connector type	Cable length/type	Supplier
USB charging cable	Huiwei-01	Type C	1.0 m(unshielded)	Intertek

Remark: WPT client was one of typical Intertek devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not 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

Pretest mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	WPT client is full load power mode, half full load power mode and saturated charging mode respectively, keep transmitting continuously.
	CH: Middle	
	CH: High	

TEST REPORT

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/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(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/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(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

TEST REPORT

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 Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	Full load power mode	Half full load power mode	Saturated charging mode		
Side 1	0.025	0.032	0.034	0.815	1.63
Side 2	0.026	0.034	0.034	0.815	1.63
Side 3	0.027	0.036	0.033	0.815	1.63
Side 4	0.030	0.037	0.038	0.815	1.63
Top	0.040	0.045	0.047	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	2023/3/7	2024/3/7

*****End of the test report*****