

# UMAGE Inc.

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING-4185, 4186

**REPORT NUMBER**

211227067GZU-002

**ISSUE DATE**

06-April-2022

**[REVISED DATE]**

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## TEST REPORT

Applicant Name & : UIMAGE Inc.  
Address : 185 Wythe Ave 2.fl.  
Manufacturing Site : Same as applicant  
Intertek Report No: 211227067GZU-002  
FCC ID: 2A33B-41854186

## 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. : 4185, 4186  
Electrical Rating : Micro-USB, 5V/2A, 9V/1.67A 10W  
**Serial No.** : Not Labeled  
Date Received : 27 December 2021  
Date Test : 03 March 2022  
Conducted

Prepared and Checked By



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**TEST REPORT**

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## 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 4185 and Model 4186 are just different colors.

## TEST REPORT

### 2.0 General Description

#### 2.1 Product Description

Operating Frequency	113-146KHz
Type of Modulation:	ASK
Antenna Type	Inductive loop coil antenna
Antenna gain:	0 dBi as declared by applicant
Power Supply:	Micro-USB, 5V/2A, 9V/1.67A 10W
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 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.

## TEST REPORT

### 2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

Description	Manufacturer	Model No.	SN/Version	Supplied by
Iphone8	apple	Iphone8	100-240~, 50/60Hz, 0.5A	Intertek
Adapter	apple	A1401	100-240~, 50/60Hz, 0.5A	Intertek

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
apple extension cord	apple -01	apple	1.0 m(unshielded)	Intertek

**Remark:** Iphone8 was one of typical client 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	Iphone8 is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously
	CH: Middle	
	CH: High	

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### 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 <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> 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 <sup>2</sup> )	Averaging Times  E  <sup>2</sup> ,  H  <sup>2</sup> 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

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### 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)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	0.031	0.033	0.032	0.815	1.63
Side 2	0.032	0.037	0.033	0.815	1.63
Side 3	0.032	0.035	0.036	0.815	1.63
Side 4	0.026	0.035	0.039	0.815	1.63
Top	0.040	0.043	0.038	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	01/03/2022	28/02/2023

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