



Test Report No.: FM2306WDG0283



## RF EXPOSURE TEST REPORT

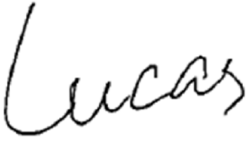

Applicant	MERCHSOURCE, LLC
Address	7755 Irvine Center Drive, Suite 100, Irvine, CA 92618

Manufacturer or Supplier	MERCHSOURCE, LLC
Address	7755 Irvine Center Drive, Suite 100, Irvine, CA 92618
Product	Vanity Mirror Hollywood LED 11.8x17.8inch
Brand Name	Sharper Image
Model	1016930
Additional Model & Model Difference	1017452, 101XXXX (where XXX can be digits 0000-9999 which represent different customers), See items 1.1
Date of tests	Jul. 04, 2023 ~ Jul. 18, 2023

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- ☒ 47 CFR PART 1, Subpart I, Section 1.1310
- ☒ KDB 680106 D01

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	

Date: Jul. 28, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2306WDG0283	Original release	Jul. 28, 2023

## 1. GENERAL INFORMATION

### 1.1. GENERAL DESCRIPTION OF EUT

<b>FCC ID</b>	2AEVM1016930
<b>PRODUCT</b>	Vanity Mirror Hollywood LED 11.8x17.8inch
<b>MODEL NO.</b>	1016930
<b>ADDITIONAL MODEL</b>	101XXXX (where XXX can be digits 0000-9999 which represent different customers)
<b>SAMPLE STATUS</b>	Engineering sample
<b>POWER SUPPLY</b>	DC 15V from Adapter Input AC 100~240V 50/60Hz 1.5A; USB-C Out: DC 5V/1A; Wireless Charging:10W (Max.)
<b>MODULATION TECHNOLOGY</b>	ASK
<b>OPERATING FREQUENCY RANGE</b>	111KHz ~ 205KHz
<b>ANTENNA TYPE</b>	Coil Antenna
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	N/A

#### NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2306WDG0283-1) for detailed product photo.
- Additional models (see above table) are identical with the test model 1016930 except the model number for trading purpose.
- The EUT was powered by the following adapter:

ADAPTER	
BRAND:	<b>SHARPER IMAGE</b>
MODEL:	DZ048BHL150300U
INPUT:	AC 100~240V 50/60HZ 1.5A
OUTPUT:	DC 15V/3A 45W
TYPE-C CABLE:	Unshielded, Non-detachable, 160cm

## 2. RF EXPOSURE MEASUREMENT

### 2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300 .....	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

### Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

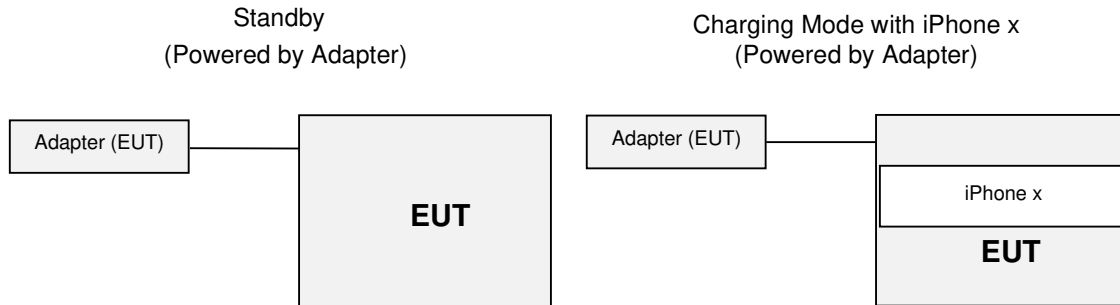
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

### 2.2 DESCRIPTION OF SUPPORT UNITS

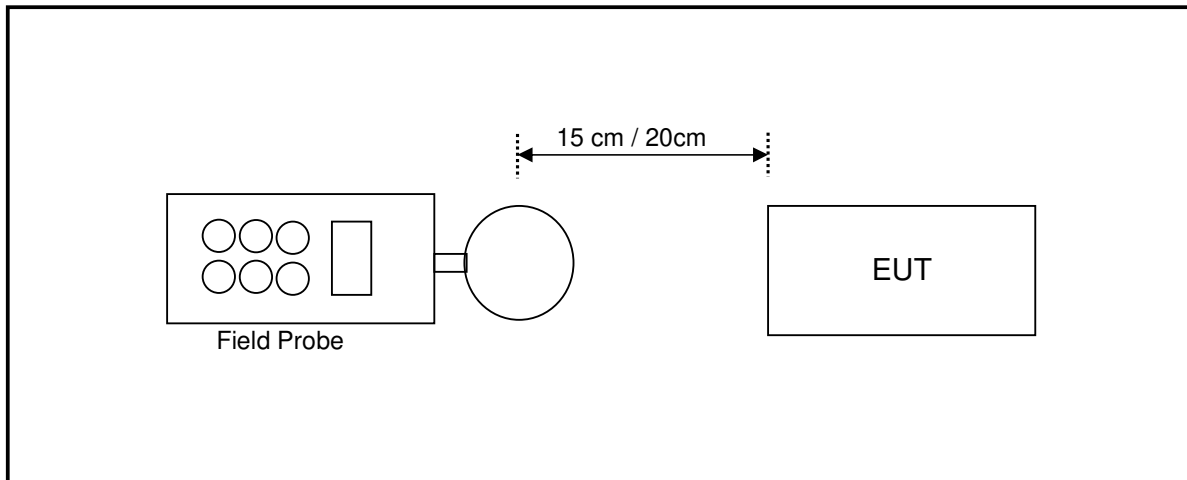
The EUT has been tested with associated equipment below

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone X	Apple	MQA52CH/A	N/A	N/A

## 2.3 CONFIGURATION OF SYSTEM UNDER TEST



## 2.4 TEST SETUP FOR WPT



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

## 2.5 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Tabulated list of the error components and uncertainty values contributing to the total measurement uncertainty

Combined standard uncertainty and expanded uncertainty (for  $k \geq 2$ ) of each measurement

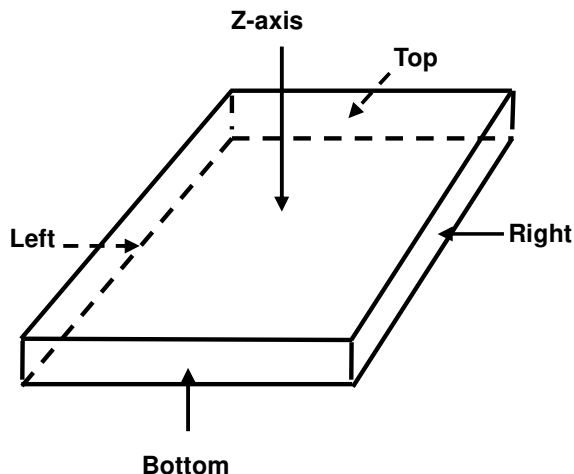
PARAMETER	UNCERTAINTY
E-Field Measurement	$\pm 0.003$ V/m
H-Field Measurement	$\pm 0.001$ $\mu$ T

## 2.6 EQUIPMENTS USED DURING TEST

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Electric and Magnetic Field Probe-Analyzer	Narda	EHP-200A	180ZX10216	Feb. 13, 24
3m Fully Anechoic Chamber	Chance Most	8m*4m*4m	D3040011DG	May 27, 25
Test Software	Narda	EHP200-TS	V1.94	N/A

- NOTES:**
1. The test was performed in RS chamber.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
  3. The diameter of the probe is 8 cm.

## 2.7 TEST POINT DESCRIPTION



## 2.8 TEST RESULTS

### Mode 1 Standby

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.27	5.1	4.91	4.84	4.12
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.73	-608.9	-609.09	-609.16	-609.88
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-301.73	-301.9	-302.09	-302.16	-302.88

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.82	0.61	0.64	0.59	0.53
Max H-field (A/m)	0.653	0.486	0.510	0.470	0.422
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-0.977	-1.144	-1.120	-1.160	-1.208
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.162	-0.329	-0.305	-0.345	-0.393

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

### Mode 2: Operating with iPhone x 10% Charger

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.64	5.27	5.1	4.99	4.52
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.36	-608.73	-608.9	-609.01	-609.48
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-301.36	-301.73	-301.9	-302.01	-302.48

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.85	0.64	0.6	0.55	0.49
Max H-field (A/m)	0.677	0.510	0.478	0.438	0.390
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-0.953	-1.120	-1.152	-1.192	-1.240
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.138	-0.305	-0.337	-0.377	-0.425

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



**Mode 3: Operating with iPhone x 50% Charger**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.32	5.18	5.01	4.89	4.24
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.68	-608.82	-608.99	-609.11	-609.76
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-301.68	-301.82	-301.99	-302.11	-302.76

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.8	0.53	0.57	0.55	0.41
Max H-field (A/m)	0.637	0.422	0.454	0.438	0.326
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-0.993	-1.208	-1.176	-1.192	-1.304
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.178	-0.393	-0.361	-0.377	-0.489

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

**Mode 4: Operating with iPhone x 90% Charger**

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	5.37	5.1	5.15	4.86	4.08
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-608.63	-608.9	-608.85	-609.14	-609.92
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-301.63	-301.9	-301.85	-302.14	-302.92

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.71	0.64	0.67	0.61	0.49
Max H-field (A/m)	0.565	0.510	0.533	0.486	0.390
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.065	-1.120	-1.097	-1.144	-1.240
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.250	-0.305	-0.282	-0.329	-0.425

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



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### 3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (FCC MPE Test Photo).

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