



RF EXPOSURE TEST REPORT

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

Manufacturer or Supplier	MerchSource, LLC.		
Address	Irvine Center Drive, Suite 100, Irvine, CA 92618		
Product	Wireless Charger with Mirror Round LED 8inch		
Brand Name	Sharper Image		
Model	1014289		
Additional Model & Model Difference	1015505, see items 1.1		
Date of tests	Jul. 06, 2021 ~ Jul. 12, 2021 Jan. 25, 2022 ~ May 18, 2022		

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 <u>COMPLY</u> with the test requirement

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
Andy	Data: May 18, 2022
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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China. Tel.: +86 769 8998 2098 Fax: +86 769 8593 1080 Email: <u>customerservice.dg@bureauveritas.com</u>



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2106WDG0113	Original release	Aug. 04, 2021
FM2201WDG0226	Based on the original report FM2106WDG0113, Change the Manufacturer and address, Change PCB cabling and component layout but it need to be retested.	May 18, 2022



1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	2AEVM1014289
PRODUCT	Wireless Charger with Mirror Round LED 8inch
MODEL NO.	1014289
ADDITIONAL MODEL	1015505
SAMPLE STATUS	Engineering sample
POWER SUPPLY DC 12V from Adapter	
MODULATION TECHNOLOGY	ASK
OPERATING FREQUENCY RANGE	111-205KHz
ANTENNA TYPE	Coil Antenna
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2201WDG0226) for detailed product photo.
- 4. Additional models 1015505 are identical with the test model 1014289 except the model number for marketing purpose.
- 5. The EUT were powered by the following adapter.

ADAPTER	
BRAND:	N/A
MODEL:	AD0301-1202000UB
INPUT:	AC 100-240V, 50-60Hz 0.8A Max.
OUTPUT:	DC 12V, 2A 24W
DC LINE:	Unshielded, Non-detachable, 155cm



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.

Frequency range (MHz)	Electric field strength (V/m) (A/m)		Power density (mW/cm²)	Averaging time (minutes)		
(A) Limits for Occupational/Controlled Exposures						

.... 1 00 */100

0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f2)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6

(B) Limits for General Population/Uncontrolled Exposure

	-	-		
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	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

t = trequency 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.

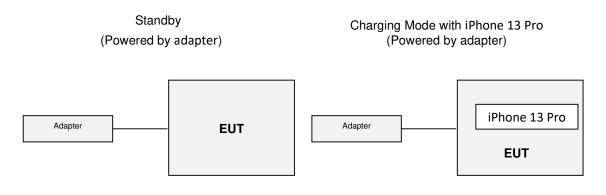
2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

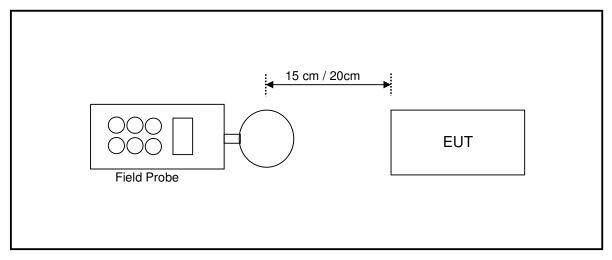
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Iphone 13 Pro	APPLE	A2639	N/A	N/A



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**.



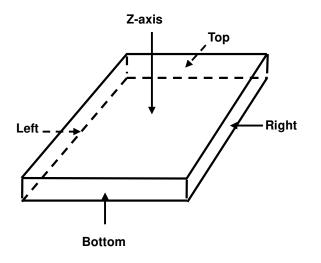
2.5 EQUIPMENTS USED DURING TEST

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
E-Field probe	Narda	NBM-520	2403/01B	Mar. 24,23
Electric and Magnetic Field Probe-Analyzer	Narda	EHP-200A	180ZX10216	Mar. 17, 23
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.

2.6 TEST POINT DESCRIPTION





2.7 TEST RESULTS

Mode 1 Standby

E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.11	1.11 1.09 1.53 0.99					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-612.87	-612.87 -612.90 -612.54 -612.88					
50% Limit (V/m)	307	307 307 307 307 307					
50% Margin (V/m)	-305.60	-305.81	-305.55	-305.89	-304.69		

H-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.236	0.235	0.235	0.235	0.237	
Max H-field (A/m)	0.191	0.191 0.177 0.188 0.181				
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.446	-1.452	-1.445	-1.442	-1.437	
50% Limit (A/m)	0.815 0.815 0.815 0.815 0.815					
50% Margin (A/m)	-0.634	-0.626	-0.626	-0.633	-0.629	

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 13 Pro 10% Charger

E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.28	1.28 1.51 1.95 1.34					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-612.38	-612.38 -612.55 -612.18 -612.56 -					
50% Limit (V/m)	307	307 307 307 307 307					
50% Margin (V/m)	-305.72	-305.53	-304.90	-305.66	-305.64		

H-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.224	0.242	0.229	0.227	0.233	
Max H-field (A/m)	0.179	0.179 0.184 0.186 0.181				
Limit (A/m)	1.63	1.63 1.63 1.63 1.63				
Margin (A/m)	-1.451	-1.451 -1.444 -1.449 -1.448				
50% Limit (A/m)	0.815 0.815 0.815 0.815 0.815					
50% Margin (A/m)	-0.626	-0.631	-0.634	-0.627	-0.628	

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.



E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.45	1.45 1.41 1.69 1.42					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-612.37	-612.37 -612.44 -612.06 -612.45					
50% Limit (V/m)	307	307 307 307 307 30					
50% Margin (V/m)	-305.44	-305.54	-305.24	-305.36	-305.62		

Mode 3: Operating with iPhone 13 Pro 50% Charger

H-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max H-field (uT)	0.230	0.232	0.233	0.235	0.233		
Max H-field (A/m)	0.185	0.185 0.189 0.183 0.188					
Limit (A/m)	1.63	1.63 1.63 1.63 1.63					
Margin (A/m)	-1.450	-1.450 -1.441 -1.447 -1.440 -1.4					
50% Limit (A/m)	0.815	0.815 0.815 0.815 0.815 0.815					
50% Margin (A/m)	-0.632	-0.629	-0.630	-0.626	-0.625		

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 13 Pro 90% Charger

E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.40	1.40 1.20 1.38 1.46					
Limit (V/m)	614	614 614 614 614					
Margin (V/m)	-612.53	-612.53 -612.86 -612.59 -612.48 -6					
50% Limit (V/m)	307	307 307 307 307 307					
50% Margin (V/m)	-305.55	-305.69	-305.39	-305.36	-305.42		

H-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.226	0.232	0.238	0.236	0.235	
Max H-field (A/m)	0.184	0.184 0.181 0.184 0.189				
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.443	-1.448	-1.441	-1.441	-1.443	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.632	-0.627	-0.627	-0.634	-0.630	

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.



3. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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