RF EXPOSURE REPORT FOR CERTIFICATION On Behalf of

Superior communications.

15W Magnetic Wireless Charger, Round, White

Model Number: 10229PG

FCC ID: YJW-10229PG

Applicant: Superior communications.				
Address:	Address: 5027 Irwindale Ave.Suite, California 91706, United States			
Prepared By:	EST Technology Co., Ltd.			
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China			
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Report Number:	ESTE-R2302106
Date of Test:	Jan. 12~Feb. 08, 2023
Date of Report:	Feb. 13, 2023

EST Technology Co., Ltd Report No. ESTE-R2302106

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Applicant: Superior communications. Address: 5027 Irwindale Ave. Suite, California 91706, United States Manufacturer: Dong Guan Xipu Leo Electronics Co., Ltd NO.100 LiXiang East Road DaLang Town DongGuan City GuangDong Province Address: of China Factory: Dong Guan Xipu Leo Electronics Co., Ltd Address: NO.100 LiXiang East Road DaLang Town DongGuan City GuangDong Province of China E.U.T: 15W Magnetic Wireless Charger, Round, White 10229PG Model Number: **Power Supply:** Input: 5V/3A, 9V/2.22A, 12V/1.67A **Trade Name:** PURE.GEAR Serial No.: Date of Receipt: Jan. 12, 2023 Date of Test: Jan. 12~Feb. 08, 2023 FCC CFR 47 Part 1.1307(b)&1.1310 **Test Specification:** KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 The device described above is tested by EST Technology Co., Ltd. The **Test Result:** measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC CFR 47 Part 1.1307(b)&1.1310 requirements. This report applies to above tested sample only and shall not be reproduced in part without written

Prepared by:

Emily Cai / Assistant

Reviewed by:

approval of EST Technology Co., Ltd.

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Other Aspects:

None.

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. SUMMARY OF TEST

1.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Permissible Exposure	Part 1.1307(b)&1.1310	PASS

1.2. Test Mode

Test Item	Test Mode	
Maximum Permissible Exposure	Wireless Charging with Empty Load Wireless Charging with Half Load	
	Wireless Charging with Full Load	
Note: The worst Full Load status is recorded in the report		

1.3. Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Electric and Magnetic Field Probe-Analyzer	Narda S.T.S./PMM	EHP-200A	EST-E106	June 13,22	1 Year
Simulated load	/	/	EST-306	N/A	N/A
Simulated load	/	/	EST-307	N/A	N/A
Test Software	Narda	EHP200-TS	Rel 1.92	N/A	N/A

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1. Limit

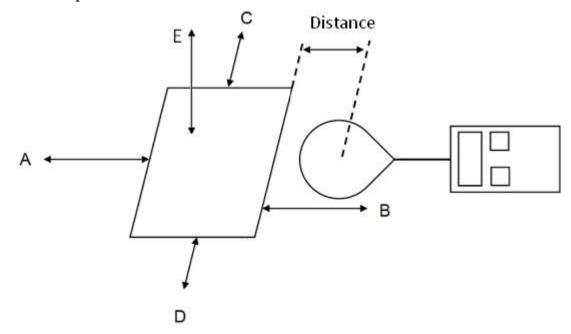
Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)
	(A) Limits for (Occupational/Contr	olled Exposure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	eral Population/Unc	controlled Exposure	ę
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

Note:

- 1. f = frequency in MHz * = Plane-wave equivalent power density.
- 2. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

2.2. Test Setup A



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2.3. Test Procedure

- a. The test was performed on 360 degree turn table in anechoic chamber.
- b. The probe was placed at 15 cm surrounding the device and 20 cm above the top of the charger and the geometric centre of the probe, for test setup A.
- d. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E were completed.

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2.4. Equipment Approval Considerations

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance.

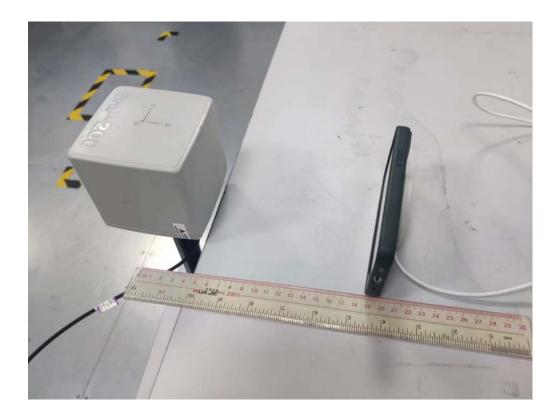
1	Power transfer frequency is less that 1 MHz			
1	YES; the device operated in the frequency range from 110.5-205KHz.			
2	Output power from each primary coil is less than or equal to 15 watts.			
4	YES; the maximum output power of the primary coil is 15W.			
	The transfer system includes only single primary and secondary coils. This includes			
3	charging systems that may have multiple primary coils and clients that are able to			
3	detect and allow coupling only between individual pairs of coils.			
YES.				
4	Client device is placed directly in contact with the transmitter.			
4	YES; Client device is placed directly in contact with the transmitter.			
	Mobile exposure conditions only (portable exposure conditions are not covered by			
5	this exclusion).			
	YES.			
	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			
6	50% of the MPE limit.			
	YES; The EUT field strength levels are 50% x MPE limts.			

2.5. Test Result for Test setup A:

E-field strength				
Frequency range (KHz)	110.5 to 205 kHz			
Test Mode	Full Load	Half Load	Empty Load	
Position A(V/m)	6.459	5.754	4.241	
Position B(V/m)	6.831	6.571	5.672	
Position C(V/m)	6.064	6.837	5.956	
Position D(V/m)	7.863	7.486	7.543	
Position E(V/m)	9.365	8.236	7.545	
Limits (V/m)				
50% Limits(V/m)	307			
<u> </u>	H-field strengt	h		
Frequency range (KHz)		110.5 to 205 kHz		
Test Mode	Full Load	Half Load	Empty Load	
Position A(A/m)	0.611	0.503	0.321	
Position B(A/m)	0.634	0.519	0.415	
Position C(A/m)	0.687	0.655	0.312	
Position D(A/m)	0.611	0.623	0.411	
Position E(A/m)	0.995	0.863	0.749	
Limits (A/m)	1.630			
50% Limits (A/m)	0.815			

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3. TEST SETUP PHOTO



End of Test Report