

RF Exposure Evaluation Report

Product	Wireless Charger Module
Machine Type / Model No.	LPS-15WP B
FCC ID.	2APYS-LPS-15WPB

Applicant	Lanto Electronic Ltd
Address	No 399, Baisheng Road, Jinxi Town, Kunshan City, Jiangsu , China 215234

Date of Receipt	Oct. 29, 2019
Date of Declaration	Nov. 26, 2019
Report No.	19A0394R-RFUSP02V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Nov. 26, 2019

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Applicant	Lanto Electronic Ltd
Address	No 399, Baisheng Road, Jinxi Town, Kunshan City, Jiangsu , China 215234
Manufacturer	Lanto Electronic Ltd
Machine Type / Model No.	LPS-15WP B
FCC ID.	2APYS-LPS-15WPB
EUT Rated Voltage	DC 12V
EUT Test Voltage	AC 120 V / 60 Hz
Trade Name	LUXSHAREICT
Applicable Standard	FCC 47 CFR 1.1310 KDB 680106 D01
Test Result	Complied

Documented By :



(Senior Adm. Specialist / Leven Huang)

Tested By :



(Engineer / Boris Hsu)

Approved By :



(Director / Vincent Lin)

1. RF Exposure Evaluation

1.1. Test Equipment

Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	EM Field Meter	ENAC	SMP2 / 18SN0747
			Apr., 2019

1.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
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	6
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/F	2.19/F	*(180/F ²)	30
300-1500	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100,000	--	--	1	30

Note:

1. RF Exposure evaluation should be conducted assuming a separation distance of 10 cm
2. The EUT is including four models for different marketing requirement.

1.3. Test Procedure

The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils per the FCC 's request. (reference KDB 680106 D01 RF Exposure Wireless Charging Apps v03)

The temperature and related humidity: 18°C and 62% RH.

1.4. Test Result of RF Exposure Evaluation for WPT

Test Mode	DC 12V	
Items to be covered	Answer from applicant	
Power transfer frequency is less than 1 MHz.	Operation frequency range is 110~145kHz	
Output power from each primary coil is less than or equal to 15 watts.	15W (Max)	
The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes, allow coupling only between individual pairs of coils.	
Client device is placed directly in contact with the transmitter.	Yes, meet the requirements.	
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes, meet the requirements.	
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.	*Electric Field Strength (V/m) @20cm = 4.22V/m (< 307 V/m) MPE Limit (614 V/m) *50% =307 V/m *Magnetic Field Strength (A/m) @20cm =0.38A/m (< 0.815 A/m) MPE Limit (1.63 A/m) *50%= 0.815 A/m	

Product : Wireless Charger Module
 Test Item : RF Exposure Evaluation
 Test Site : No.7 Chamber
 Test Date : 2019/11/25

DC 12V**E-Field Emissions**

Test Position	Frequency (MHz)	Measurement Level @15cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Side 1	0.12600	3.560	614.0	307.0	PASS
Side 2	0.12600	4.220	614.0	307.0	PASS
Side 3	0.12600	3.570	614.0	307.0	PASS
Side 4	0.12600	2.360	614.0	307.0	PASS

Test Position	Frequency (MHz)	Measurement Level @20cm (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Top	0.12600	2.800	614.0	307.0	PASS
Bottom	0.12600	2.340	614.0	307.0	PASS

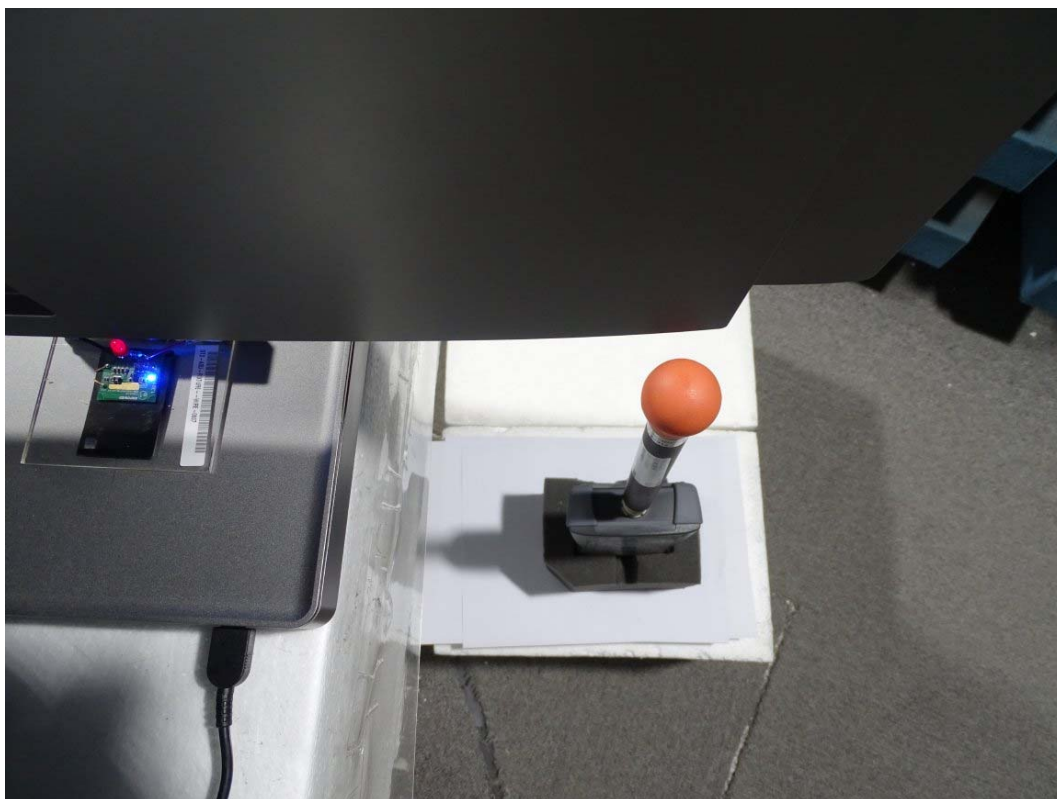
H-Field Emissions

Test Position	Frequency (MHz)	Measurement Level @15cm (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Side 1	0.12600	0.290	1.63	0.815	PASS
Side 2	0.12600	0.230	1.63	0.815	PASS
Side 3	0.12600	0.270	1.63	0.815	PASS
Side 4	0.12600	0.300	1.63	0.815	PASS

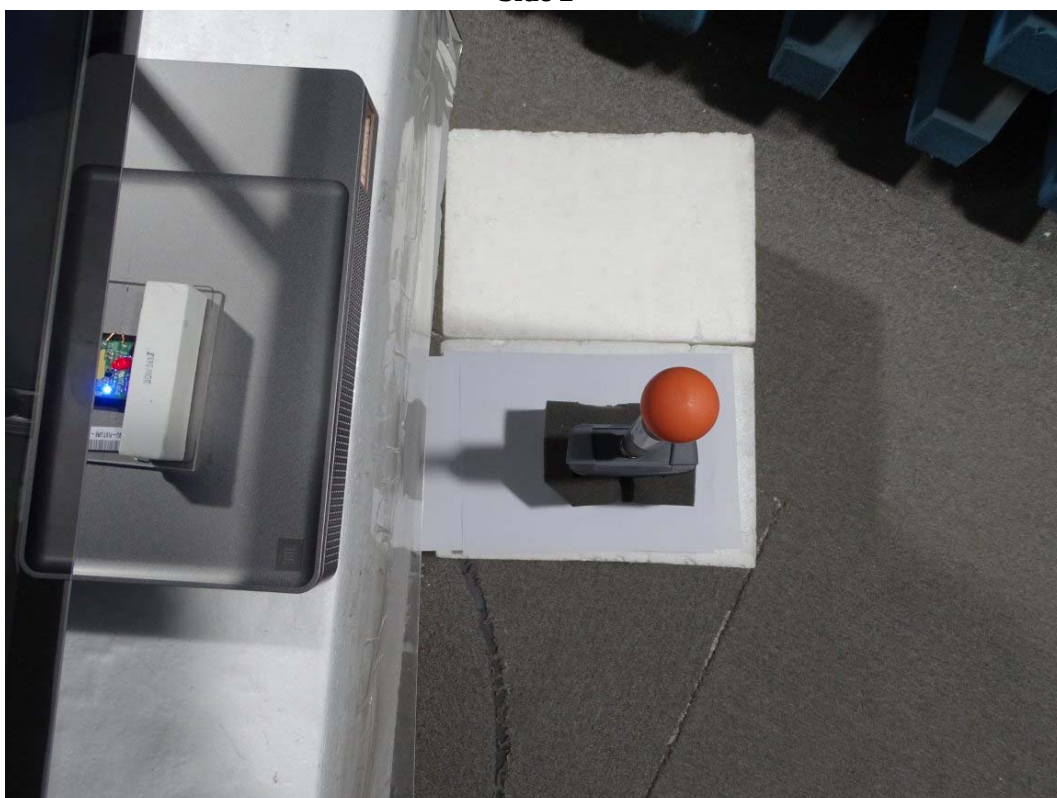
Test Position	Frequency (MHz)	Measurement Level @20cm (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Top	0.12600	0.380	1.63	0.815	PASS
Bottom	0.12600	0.290	1.63	0.815	PASS

1.5. EUT Test Setup Photographs

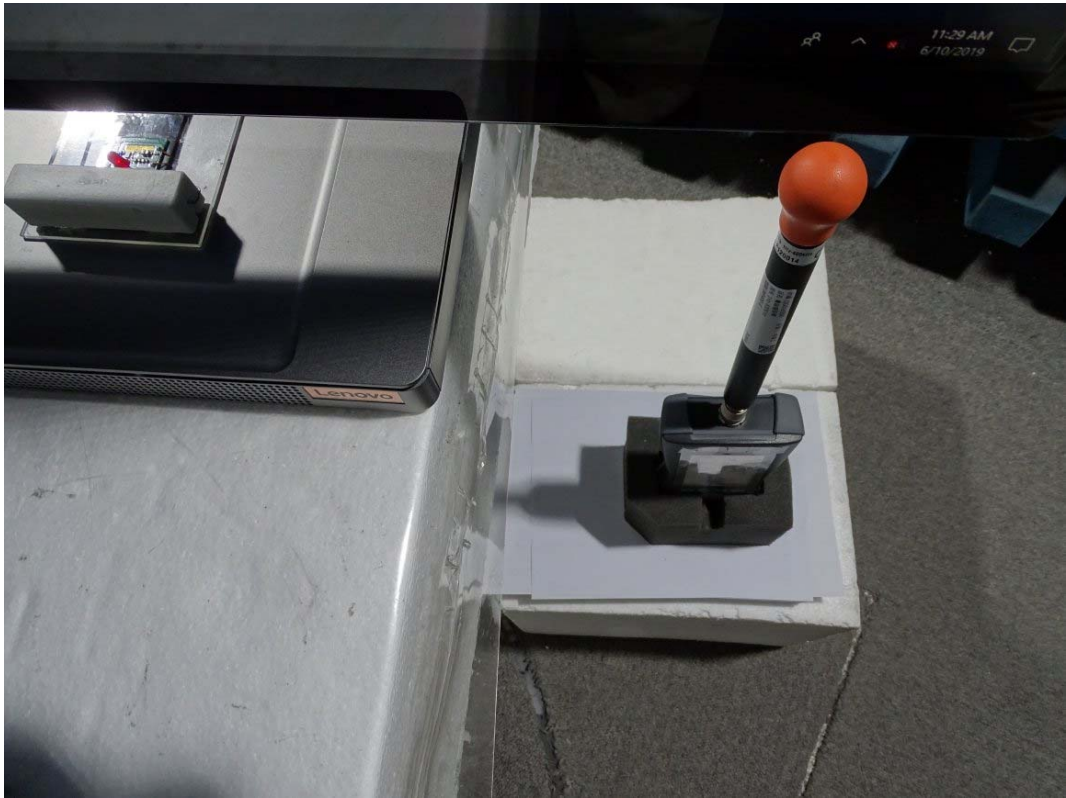
Side 1



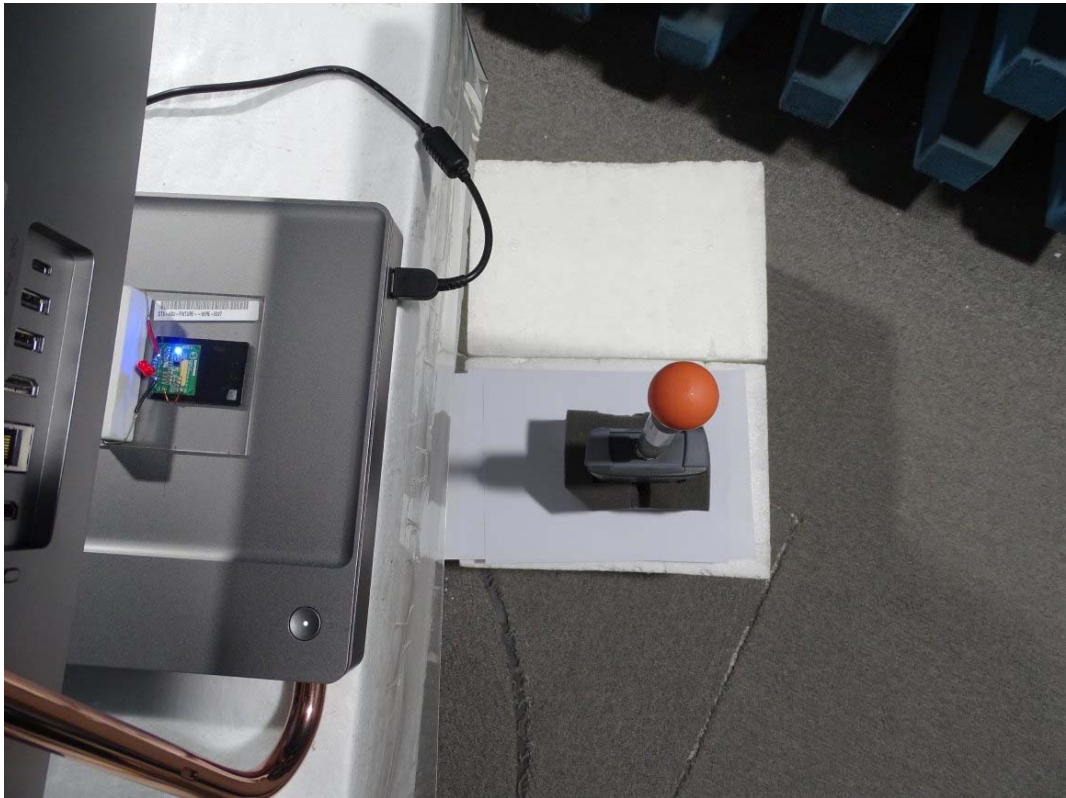
Side 2



Side 3



Side 4



Top



Bottom

