

**RF EXPOSURE REPORT FOR CERTIFICATION**  
**On Behalf of**

**Lucent Trans Electronics Co., Ltd**

**10 Watt Single Coil Wireless Charging Stand**

**Model Number: WC10WSTNDGGL-AL**

**FCC ID: UQ310WSTAND**

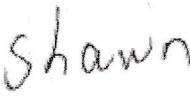
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Report Number:	ESTE-R1912116
Date of Test:	Dec. 14~25, 2019
Date of Report:	Dec. 28, 2019

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## EST Technology Co., Ltd.

<b>Applicant:</b>	Lucent Trans Electronics Co., Ltd	
<b>Address:</b>	9F-1, No. 16, Chien Pah Rd., Chung Ho Dist., New Taipei City, Taiwan	
<b>Manufacturer:</b>	Lucent Trans Electronics Co., Ltd	
<b>Address:</b>	9F-1, No. 16, Chien Pah Rd., Chung Ho Dist., New Taipei City, Taiwan	
<b>E.U.T:</b>	10 Watt Single Coil Wireless Charging Stand	
<b>Model Number:</b>	WC10WSTNDGGL-AL	
<b>Power Supply:</b>	DC 9V From Adapter Input AC 100-240V, 50/60Hz	
<b>Trade Name:</b>	Verizon	Serial No.: -----
<b>Date of Receipt:</b>	Dec. 14, 2019	Date of Test: Dec. 14~25, 2019
<b>Test Specification:</b>	FCC CFR 47 Part 1.1307(b)&1.1310 KDB 680106 D01 RF Exposure Wireless Charging Apps v03	
<b>Test Result:</b>	The device described above is tested by EST Technology Co., Ltd. The 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 approval of EST Technology Co., Ltd.	
Date: Dec. 30, 2019		
Prepared by:	Reviewed by:	Approved by:
		
Ring / Assistant	Shawn / Engineer	Iceman Hu / Manager
<b>Other Aspects:</b> 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

Report Section	Description of Test Item	FCC Standard Section	Results
3	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

### 1.3. Test Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Exposure Level Tester	Narda	ELT-400	EST-E105	Aug. 21,19	1 Year
B-Field Probe	Narda	ELT Probe	EST-E106	Aug. 30,19	1 Year

## 2. MAXIMUM PERMISSIBLE EXPOSURE

### 2.1. Limit

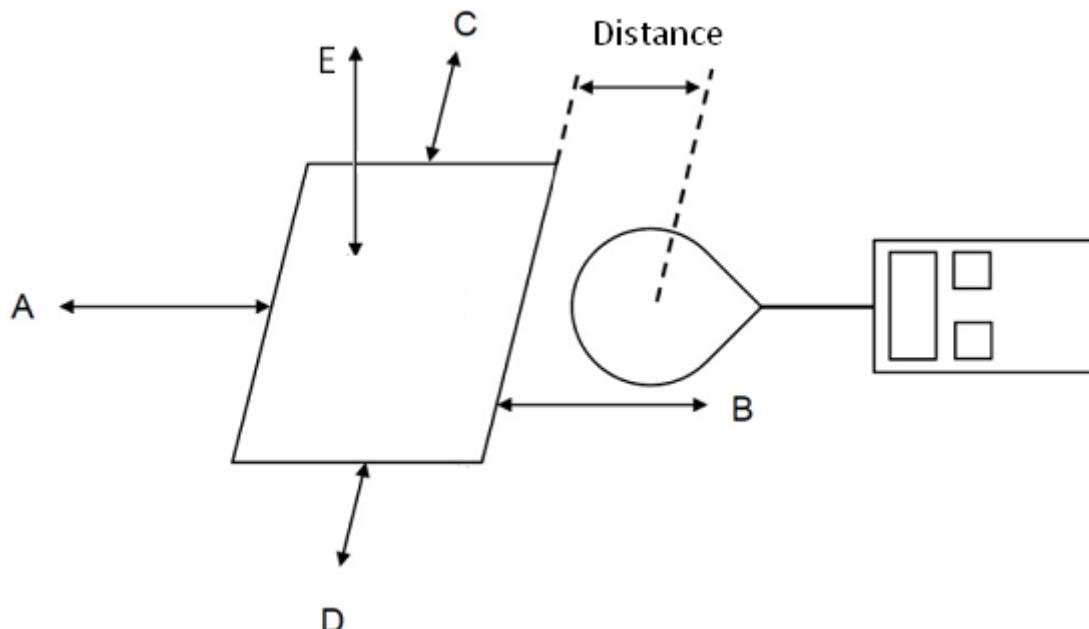
#### Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposure</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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			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 as 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



### 2.3. Test Procedure

- a. The test was performed on turn table in anechoic chamber with a dummy load.
- b. The dummy load must be placed horizontal of the EUT at the top (Parallel to the coil).
- c. 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.
- 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.

## 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 than 1 MHz
	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.
	YES. The maximum output power of the primary coil is 10W.
3	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; the transfer system includes only single primary and secondary coils.
4	Client device is placed directly in contact with the transmitter.
	YES; Client device is placed directly in contact with the transmitter.
5	Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
	YES.
6	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.
	Yes. The EUT field strength levels less than 50% x MPE limits

## 2.5. Test Result

<b>E-field strength</b>			
Frequency range (KHz)	110.5 to 205		
Test Mode	Full Load	Half Load	Empty Load
Position A(V/m)	1.313	1.245	1.157
Position B(V/m)	1.302	1.249	1.166
Position C(V/m)	1.332	1.251	1.152
Position D(V/m)	1.274	1.202	1.103
Position E(V/m)	1.501	1.312	1.241
Limits (V/m)	614		
50% Limits(V/m)	307		

<b>H-field strength</b>			
Frequency range (KHz)	110.5 to 205		
Test Mode	Full Load	Half Load	Empty Load
Position A(A/m)	0.376	0.341	0.302
Position B(A/m)	0.363	0.342	0.311
Position C(A/m)	0.372	0.338	0.307
Position D(A/m)	0.383	0.341	0.321
Position E(A/m)	0.524	0.415	0.363
Limits (A/m)	1.63		
50% Limits (A/m)	0.815		

### 3. TEST SETUP PHOTO

**Position A**



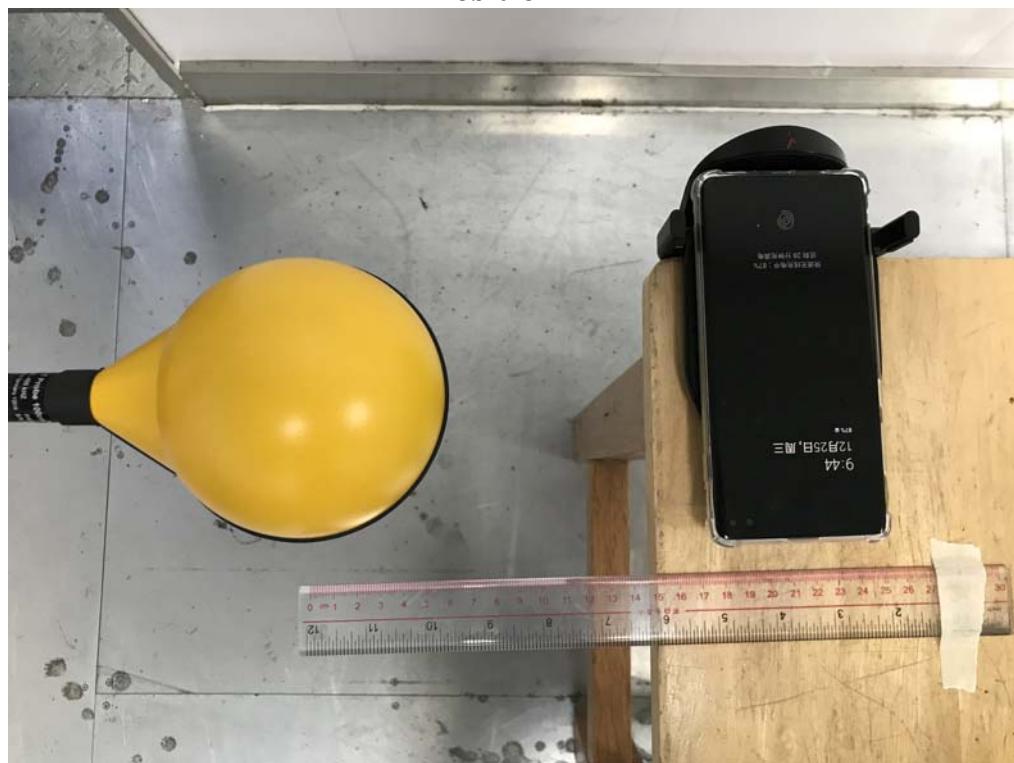
**Position B**



**Position C**



**Position D**



**Position E**



**End of Test Report**