



Test Report No.: FS190730N036



# RF EXPOSURE REPORT

Applicant	ShadowTrack Technologies, Inc.
Address	Cypress Bend Office Building, 1001 Ochsner Blvd Suite 425A, Covington, LA. 70433, USA

Manufacturer or Supplier	Shenzhen Xexun Technology Co.,Ltd
Address	F/7, Guangrong Building, MeiHua Rd., ShangMei lin, FuTian District, ShenZhen, China
Product	WIRELESS CHARGER
Brand Name	SHADOWTRACK
Model	ShadoWatch WLC00119
Additional Model & Model Difference	N/A
Date of tests	Jul. 30, 2019 ~ Sep. 06, 2019

- 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 Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	
	Date: Sep. 09, 2019

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**BUREAU**  
**VERITAS**

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS190730N036	Original release	Sep. 09, 2019

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**BUREAU**  
**VERITAS**

Test Report No.: FS190730N036

## 1. CERTIFICATION

<b>FCC ID:</b>	2ARH7-SG-001-19
<b>PRODUCT:</b>	WIRELESS CHARGER
<b>BRAND NAME:</b>	SHADOWTRACK
<b>MODEL:</b>	ShadoWatch WLC00119
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	ShadowTrack Technologies, Inc.
<b>STANDARDS:</b>	47 CFR PART 1, Subpart I, Section 1.1310 KDB 680106 D01

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## 2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

Description	Manufacturer	Model No.	Serial No.
ShadoWatch	Shadowtrack	SG-001-18	/

## 3. EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Car.Due date.
1	3m Semi-Anechoic Chamber	ETS-LINDGRE N	7m*4m*3m	NSEMC003	Mar. 19, 20
2	Exposure Level Tester	Narda	ELT-400	L-0012	Jun. 08,20
3	B-field Probe	Narda	Y2006	L-0017	Jun. 08,20

- NOTE:**
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.

## 4. TEST RESULTS

### 4.1 RF EXPOSURE TEST

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
 Measurement Distance: 0 mm  
 Test voltage: DC 3.7V from Battery

Limit:

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 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

#### 4.1.1 EUT OPERATION

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

#### EUT Operation:

This device has been tested the worst status of full load and the device has been tested with shadowwatch at zero charge, intermediate charge, and full charge.



#### 4.1.2 MEASUREMENT DATA

Output Voltage=DC 5V

Wireless radiation frequency: 110KHz ~ 206KHz

##### Electric Field Emissions

Test Position	Test Distance (mm)	Probe Measure Result (V/m)	Limit (V/m)
Side 1	0	3.47	614
Side 2	0	4.48	614
Side 3	0	4.34	614
Side 4	0	3.58	614
Top	0	4.81	614
Bottom	0	4.22	614

##### Magnetic Field Emissions

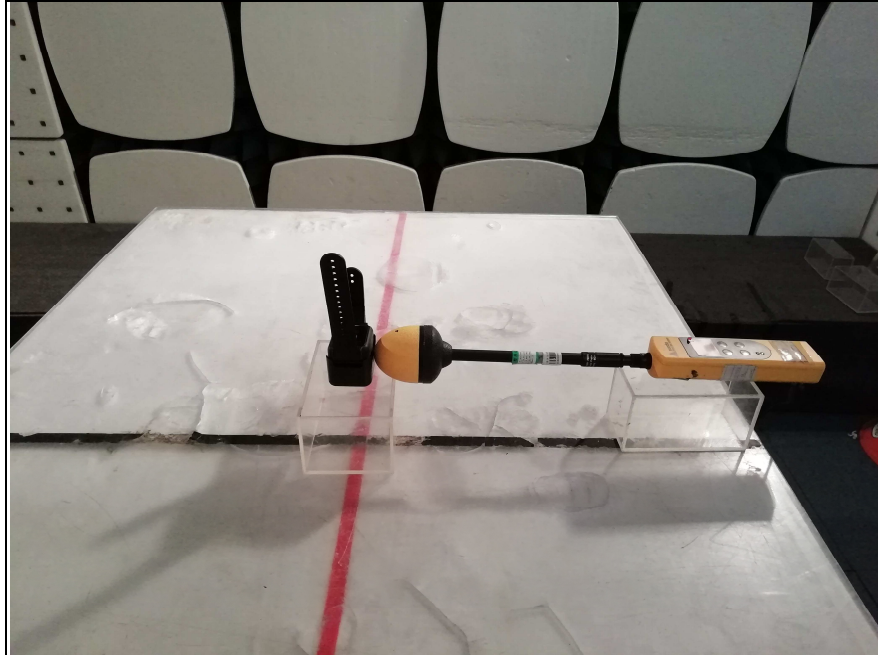
Test Position	Test Distance (mm)	Probe Measure Result (A/m)	Limit (A/m)
Side 1	0	0.0093	1.63
Side 2	0	0.0082	1.63
Side 3	0	0.0091	1.63
Side 4	0	0.0099	1.63
Top	0	0.0147	1.63
Bottom	0	0.0098	1.63

Note: All modes (while support units at 10%, 50 %, and 90% of charge ) have been tested and we only record the worst mode (10% of charge ) in the test result.



## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Electric Field



Magnetic Field



--- END ---