

Human Exposure Report

FCC ID: 2AWA7-REDEYE-S

Project No. : BTL-FCCP-1-2004T115
Equipment : Wireless Charger
Model Name : redevye-S
Brand Name : RedEye
Applicant : Taiwan RedEye Biomedical Inc.
Address : Hsinchu Science Park Room A2-A6 1F., No. 1, Lixing 1st Rd., East Dist., Hsinchu City 300, Taiwan
Manufacturer : Taiwan RedEye Biomedical Inc.
Address : Hsinchu Science Park Room A2-A6 1F., No. 1, Lixing 1st Rd., East Dist., Hsinchu City 300, Taiwan
FCC Rule Part(s) : 47 CFR PART 1, Subpart I, Section 1.1310
KDB680106 D01 RF Exposure Wireless Charging Apps v03
Date of Receipt : 2020/4/27
Date of Test : 2020/4/28
Issued Date : 2021/3/19

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

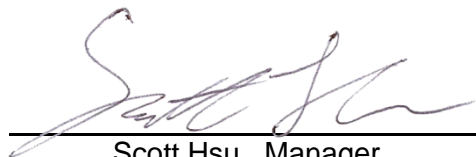
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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	2020/5/19
R01	Revised report to address TCB's comments.	2020/5/26
R02	Revised Typo.	2021/3/19

1. GENERAL INFORMATION

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan.

BTL's test firm number for FCC: 674415

BTL's designation number for FCC: TW0659

2. TEST RESULTS

2.1 LIMITS

For 47 CFR PART 1, Subpart I, Section 1.1310:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational / Controlled 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	1.0	6
300-1500	/	/	f/300	6
1500-100000	/	/	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
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	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).				

For KDB680106 D01:

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 MEASUREMENT DATA

Electric Field Emissions

Test Position(15 cm)	Probe Measure Results (V/m)	Limit (V/m)
	intermediate charge	
Front	6.34	614
Back	6.95	614
Left	6.78	614
Right	6.85	614
Top	6.99	614
Bottom	7.55	614

Note:

The maximum Probe Measure Results of this EUT is 7.55 V/m, less than 307 V/m($614 \times 50\%$).

Magnetic Field Emissions

Test Position(15 cm)	Probe Measure Results (A/m)	Limit (A/m)
	intermediate charge	
Front	0.04	1.63
Back	0.04	1.63
Left	0.04	1.63
Right	0.04	1.63
Top	0.04	1.63
Bottom	0.04	1.63

Note:

The maximum Probe Measure Results of this EUT is 0.04 A/m, less than 0.815 V/m($1.63 \times 50\%$).

Remark: The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.

3. MEASUREMENT INSTRUMENTS LIST

Human Exposure					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Field strength meter	WAVECONTROL	SMP2	19SN1139	2021/1/2
2	Probe	WAVECONTROL	WP400	19WP100578	2021/1/2

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

4. TEST PHOTOS

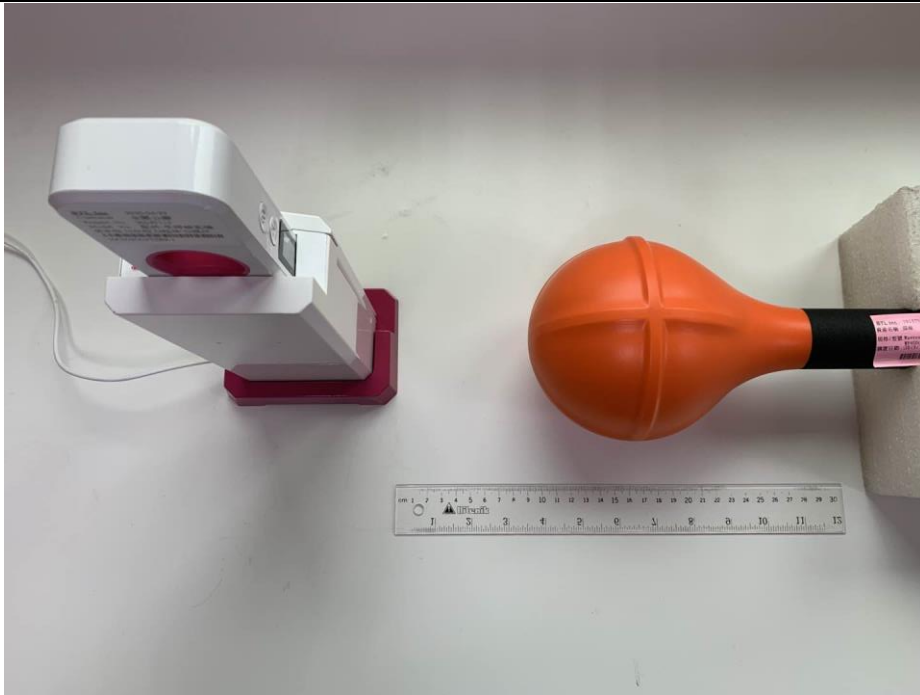
Front Side (15 cm)



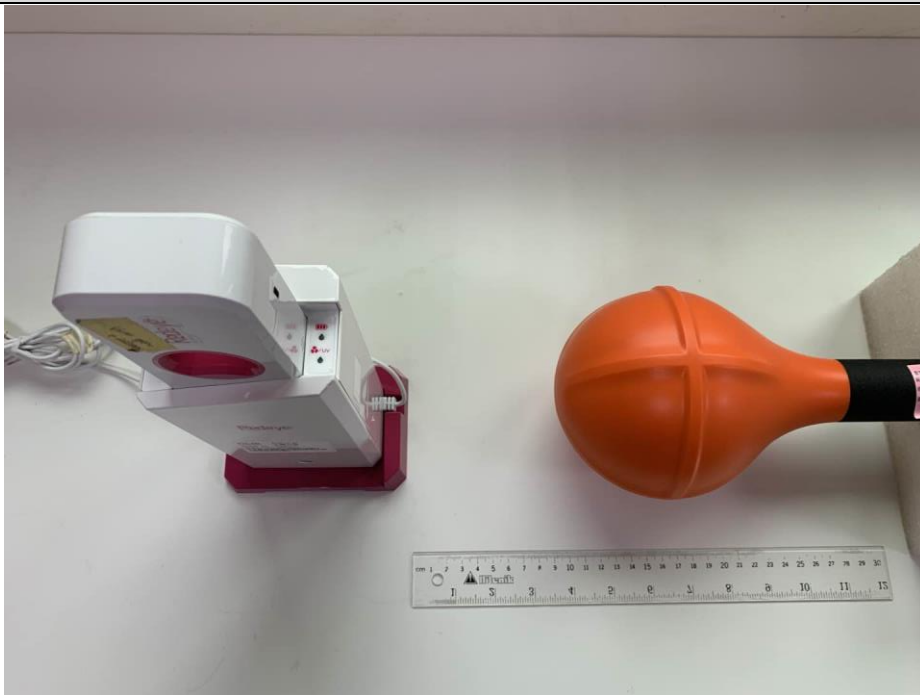
Back Side (15 cm)



Left Side (15 cm)



Right Side (15 cm)



Top Side (15 cm)



Bottom Side (15 cm)



End of Test Report