MPE TEST REPORT

Product Name: White noise sleep machine

Model Name: E05, E06, E07, E08, E09

FCC ID: 2AOHUE05

Issued For : Shenzhen Weile Electronics Co., LTD.

602, Building 2, Zhuguang Innovation and Technology Park, Taoyuan Street, Nanshan District, Shenzhen City

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT23L147HA02
Sample Received Date:	Jan. 10, 2024
Date of Test:	Jan. 10, 2024 – Feb. 29, 2024
Date of Issue:	Feb. 29, 2024

TEST REPORT CERTIFICATION

Applicant:	Shenzhen Weile Electronics Co., LTD.
Address:	602, Building 2, Zhuguang Innovation and Technology Park, Taoyuan Street, Nanshan District, Shenzhen City
Manufacturer:	Shenzhen Weile Electronics Co., LTD.
Address:	602, Building 2, Zhuguang Innovation and Technology Park, Taoyuan Street, Nanshan District, Shenzhen City
Product Name:	White noise sleep machine
Trademark:	N/A
Model Name:	E05, E06, E07, E08, E09
Sample Status:	Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC CFR 47 part 1.1310 680106 D01 RF Exposure Wireless Charging Apps v04	PASS

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Zane Shan
Engineer

Approved by:

Vita Li
Technical Director

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Revision History

Rev.	Issue Date	Contents
00	Feb. 29, 2024	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v04

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v04	Electric Field Strength (E) (V/m)	PASS	--
	Magnetic Field Strength (H) (A/m)	PASS	--

NOTE:

(1) 'N/A' denotes test is not applicable in this Test Report.

1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainly
1	H-filed	±0.83dB
2	E-filed	±0.91dB

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	White noise sleep machine
Trademark:	N/A
Model Name:	E05
Series Model:	E06, E07, E08, E09
Model Difference:	Only the model name is different.
Channel List:	Please refer to the Note 3.
Operating frequency	135.9KHz
Antenna Type:	Coil
Rating:	Input: DC 5V/2A or 9V/1.5A
Hardware Version:	N/A
Software Version:	N/A
Connecting I/O Port(s):	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.
3.

Channel List					
Channel	Frequency (KHz)	Channel	Frequency (KHz)	Channel	Frequency (KHz)
00	135.9				

2.2 EQUIPMENTS LIST

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Electric and Magnetic field Probe - Analyzer	WAVECONTROL	19SN1101/19P100555	SMP2/WP400	2023.04.10	2024.04.09

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB-A to USB-C Cable	N/A	N/A	N/A	1m

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Wireless charging tester fixture	SiLiYuan	SK-99899	N/A	5W, 7.5W, 10W,15W

Note:

(1) For detachable type I/O cable should be specified the length in cm in『Length』column.
(2) “YES” is means “with core”; “NO” is means “without core”.

2.4 DESCRIPTION OF THE TEST MODES

To investigate the maximum emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode: Wireless output Load 5W
Mode 2	TX Mode: Wireless output Load 7.5W
Mode 3	TX Mode: Wireless output Load 10W

Final Test Mode	Description(worst case)
Mode 3	TX Mode: Wireless output Load 10W

3. MAXIMUM PERMISSIBLE EXPOSURE

3.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v04

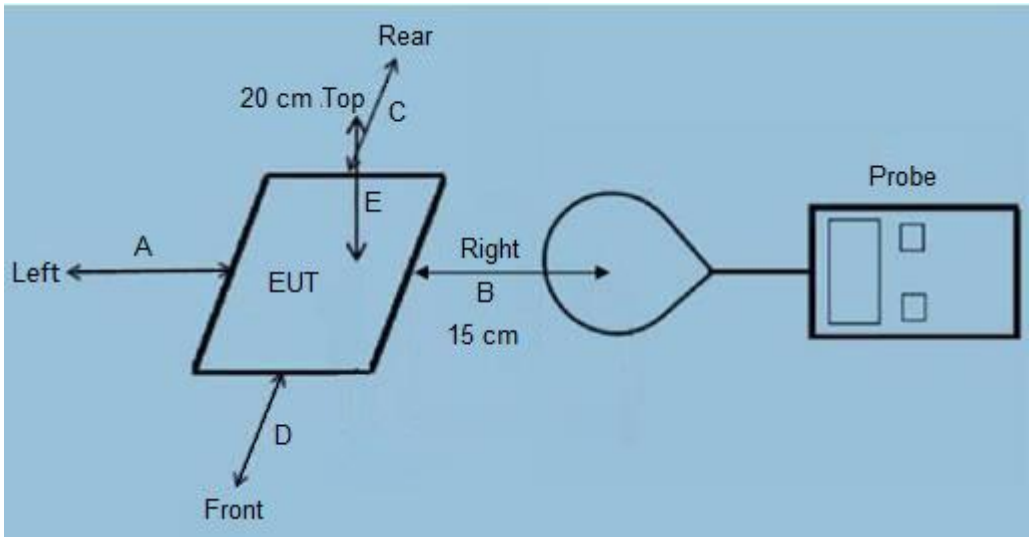
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: 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.

3.2 TEST PROCEDURE

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). 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 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

3.3 TEST SETUP



3.4 TEST RESULTS

The EUT does comply with item 5 KDB680106 D01 v04.

(1) The power transfer frequency is below 1 MHz.
(Conform)

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.
(Conform)

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e. the surfaces of the transmitter and client device enclosures need to be in physical contact).
(Conform)

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).
(Conform)

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.
(Conform)

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.
(Conform)

3.5 MAXIMUM PERMISSIBLE EXPOSURE

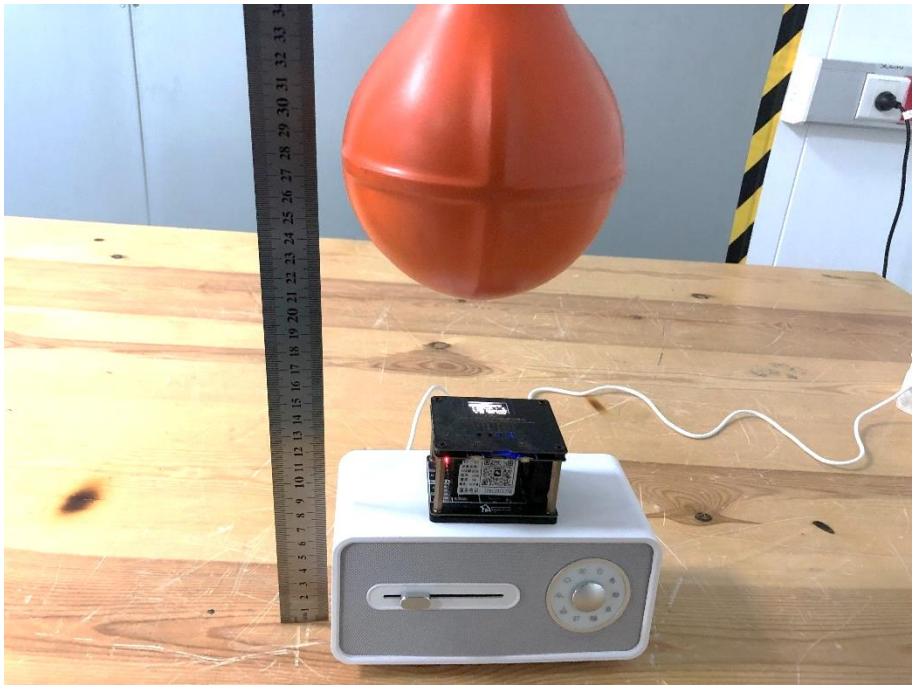
Mode 3:

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	15cm	Front	0.458756734	0.111742992
< 1% Battery	15cm	Rear	0.432221473	0.105381036
< 1% Battery	15cm	Left	0.431065901	0.125637157
< 1% Battery	15cm	Right	0.442347605	0.130952138
< 1% Battery	20cm	Top	0.474410933	0.145451053
Limit			614	1.63
Margin Limit (%)			0.08%	8.92%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.462897631	0.117544815
50% Battery	15cm	Rear	0.42857345	0.11227395
50% Battery	15cm	Left	0.445701421	0.115430061
50% Battery	15cm	Right	0.446353912	0.125683524
50% Battery	20cm	Top	0.477156703	0.145371471
Limit			614	1.63
Margin Limit (%)			0.08%	8.92%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
＞99% Battery	15cm	Front	0.459375152	0.111214801
＞99% Battery	15cm	Rear	0.441298238	0.104496465
＞99% Battery	15cm	Left	0.422504428	0.122220905
＞99% Battery	15cm	Right	0.435249955	0.126737432
＞99% Battery	20cm	Top	0.474271858	0.136251868
Limit			614	1.63
Margin Limit (%)			0.08%	8.36%

MPE SETUP PHOTO



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