FCC RF EXPOSURE REPORT

For

Air sterilizer

MODEL NUMBER: AAHE-50XX04C

Serial Model: AAHE-50XX04C
(XX Can be A-Z)

FCC ID: XZH-AAHE-50XX04C

REPORT NUMBER: 4789958126.2-3

ISSUE DATE: February 28, 2022

Prepared for

ETI Solid State Lighting (Zhuhai) Ltd
No.1, Zhongzhu Road South,Science & Technology Inn, Zhuhai City, Guangdong Province, China

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881
Fax: +86 769 33244054
Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	02/28/2022	Initial Issue	

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	ETI Solid State Lighting (Zhuhai) Ltd
Address:	No.1, Zhongzhu Road South,Science & Technology Inn, Zhuhai City, Guangdong Province, China

Manufacturer Information

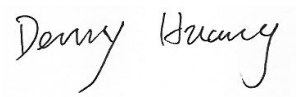
Company Name:	ETI Solid State Lighting (Zhuhai) Ltd
Address:	No.1, Zhongzhu Road South,Science & Technology Inn, Zhuhai City, Guangdong Province, China

EUT Information

EUT Name:	Air sterilizer
Model:	AAHE-50XX04C
Serial Model:	AAHE-50XX04C (XX Can be A-Z)
Model Difference:	Please refer to clause 5.1. Description of EUT
Brand:	D&HLifelabs
Sample Received Date:	January 21, 2021
Sample Status:	Normal
Sample ID:	4114456
Date of Tested:	January 21, 2022 ~ February 28, 2022

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091	PASS

Prepared By:



Denny Huang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo
Laboratory Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Delcaration of Conformity (DoC) and Certification rules **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

4. EQUIPMENT UNDER TEST

EUT Name	Air Sterilizer
Model Name	AAHE-50XX04C
Series Model	AAHE-50XX04C (XX Can be A-Z)
Model Difference	AAHE-50XX04C (XX Can be A-Z) have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with AAHE-50XX04C.The difference lies only the Appearance color of the product.
Ratings	AC 120 V, 50/60 Hz

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	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	($180/f^2$)*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

CALCULATION METHOD

$S=PG/4\pi R^2$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

2.4 GHz WiFi Mode					
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm^2	mW/cm^2	--
2437	19	79.43	0.0199	1.0	Complies

BLE WiFi Mode					
Frequency	Output Power	Output Power	Power Density	Power Density Limit	Test Result
MHz	dBm	mW	mW/cm^2	mW/cm^2	--
2402	5	3.16	0.0008	1.0	Complies

Note: 1. Antenna Gain=1.0 dBi (Numeric 25.12), π=3.141.
2. The Power comes from operation description.
3. The minimum separation distance of the device is greater than 20 cm.
4. Calculate by WORST-CASE mode.

END OF REPORT