FCC TEST REPORT
For

Hefei Aoqian Lighting Technology Co.,Ltd

Exhaust Fan

Test Model: A-8

Additional Model No.: A-1, A-2, A-3, A-4, A-5, A-6, A-7, A-9, A-10, B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9, B-10, C-1, C-2, C-3, C-4, C-5, D-1, D-2, D-3, D-4, D-5, E-1, E-2, E-3, E-4, E-5, F-1, F-2, F-3, F-4, F-5

Prepared for	:	Hefei Aoqian Lighting Technology Co.,Ltd
Address	:	4010, No.20 Building of Area A, Phase II of Hardwear Trade Center, Baohe District, Heifei City, Anhui Province, China

Prepared by	:	Shenzhen AOCE Electronic Technology Service Co., Ltd.
Address	:	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
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Web	:	www.aoc-cert.com
Mail	:	postmaster@aoc-cert.com

Date of receipt of test sample	:	December 1, 2025
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	December 1, 2025 - December 8, 2025
Date of Report	:	December 8, 2025

FCC TEST REPORT
FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014

Report Reference No. .....:	**AOC251208102F**
Date Of Issue.....:	December 8, 2025
Testing Laboratory Name.....:	**Shenzhen AOCE Electronic Technology Service Co., Ltd.**
Address.....:	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
Testing Location/ Procedure.....:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name..... :	Hefei Aoqian Lighting Technology Co.,Ltd
Address.....:	4010, No.20 Building of Area A, Phase II of Hardwear Trade Center, Baohe District, Heifei City, Anhui Province, China
Test Specification:	
Standard.....:	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014
Test Report Form No.....:	AOCEMC-1.0
TRF Originator.....:	Shenzhen AOCE Electronic Technology Service Co., Ltd.
Master TRF.....:	Dated 2011-03

Test Item Description..... :	Exhaust Fan
Trade Mark.....:	AOQIAN, HKVOXIM, Lwoxvzjk
Model/ Type Reference.....:	A-8
Ratings.....:	AC 110-240V, 50/60Hz, 40W
Result .....:	**Pass**

Compiled by:	**Supervised by:**	**Approved by:**
David Liu	Kevin Huang	Jackson Fang
David Liu/ File administrators	Kevin Huang/ Technique principal	Jackson Fang/ Manager

FCC -- TEST REPORT

Test Report No. : AOC251208102F	December 8, 2025 Date of issue

Type / Model.....	:	A-8
EUT.....	:	Exhaust Fan
Applicant.....	**:**	**Hefei Aoqian Lighting Technology Co.,Ltd**
Address.....	:	4010, No.20 Building of Area A, Phase II of Hardwear Trade Center, Baohe District, Heifei City, Anhui Province, China
Telephone.....	:	/
Fax.....	:	/
Manufacturer.....	**:**	**Hefei Aoqian Lighting Technology Co.,Ltd**
Address.....	:	4010, No.20 Building of Area A, Phase II of Hardwear Trade Center, Baohe District, Heifei City, Anhui Province, China
Telephone.....	:	/
Fax.....	:	/
Factory.....	**:**	**Hefei Aoqian Lighting Technology Co.,Ltd**
Address.....	:	4010, No.20 Building of Area A, Phase II of Hardwear Trade Center, Baohe District, Heifei City, Anhui Province, China
Telephone.....	:	/
Fax.....	:	/

Test Result according to the standards on page 5: **Pass**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENT

1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	**Standard**	**Limits**	**Results**
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B(SDoC), ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : Exhaust Fan

Model Number : A-8

Power Supply : AC 110-240V, 50/60Hz, 40W

2.2.Description of Support Device

Name	Manufacturers	M/N	S/N
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2.3.Description of Test Facility

Site Description
EMC Lab. : ---

2.4.Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the AOC quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.5.Measurement Uncertainty

Test Item		Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	:	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	2.63 dB 2.35 dB	3.8 dB 3.4 dB
Power Disturbance	:	Level accuracy (30MHz to 300MHz)	±2.90dB	±4.5 dB
Radiated Emission	:	Level accuracy (9kHz to 200MHz)	±3.68 dB	N/A
Radiated Emission		Level accuracy (200Hz to 1000MHz)	±3.48 dB	±5.3 dB
Radiated Emission		Level accuracy (above 1000MHz)	±3.90 dB	±5.2 dB

（1）Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

（2）The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3.TEST RESULTS

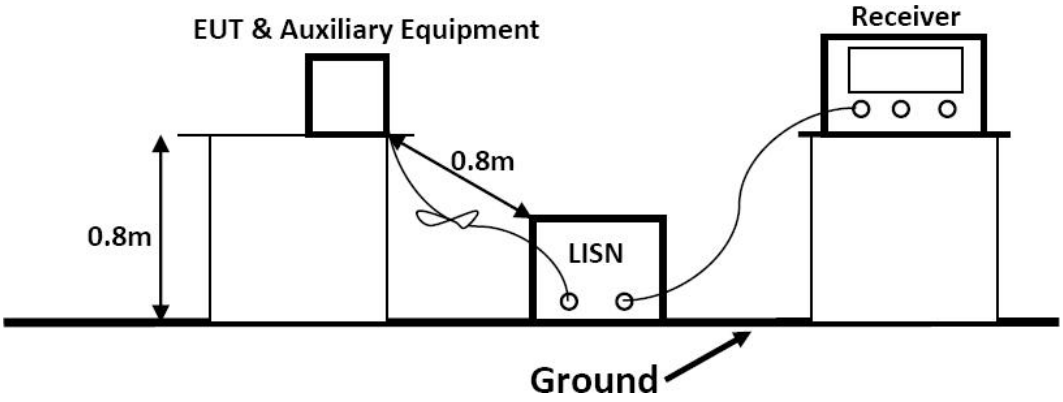
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2025/04/24	2026/04/23
3	Artificial Mains	R&S	ENV216	101288	2025/04/24	2026/04/23
4	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2025/04/24	2026/04/23
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2025/04/24	2026/04/23

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0
NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.				

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section

3.1.5.2.Turn on the power of all equipments.

3.1.5.3.Let the EUT work in measuring Working and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

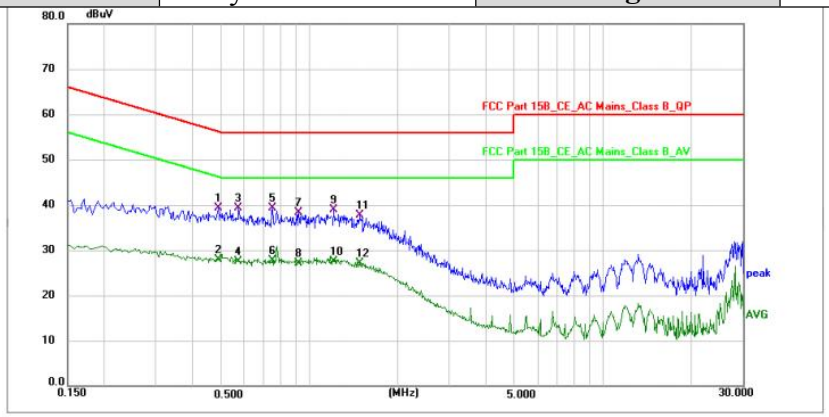
The frequency range from 150kHz to 30MHz is investigated

3.1.7.Test Results

PASS.

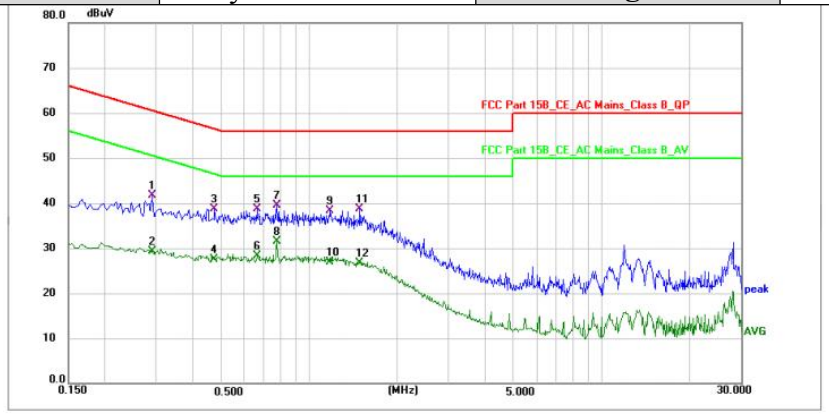
The test result please refer to the next page.

Model No.	A-8	**Test Date**	December 8, 2025
Environmental Conditions	24℃/ 56% RH	**Test Mode**	Working
Pol	Line	**Detector Function**	Quasi-peak
Test Engineer	Andy	**Test Voltage**	AC 125V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.4900	29.38	9.88	39.26	56.17	-16.91	QP	P	
2	0.4900	17.97	9.88	27.85	46.17	-18.32	AVG	P	
3 *	0.5740	29.56	9.73	39.29	56.00	-16.71	QP	P	
4	0.5740	17.83	9.73	27.56	46.00	-18.44	AVG	P	
5	0.7500	29.84	9.43	39.27	56.00	-16.73	QP	P	
6	0.7500	18.33	9.43	27.76	46.00	-18.24	AVG	P	
7	0.9220	28.87	9.42	38.29	56.00	-17.71	QP	P	
8	0.9220	17.68	9.42	27.10	46.00	-18.90	AVG	P	
9	1.2100	29.42	9.41	38.83	56.00	-17.17	QP	P	
10	1.2100	18.01	9.41	27.42	46.00	-18.58	AVG	P	
11	1.4860	28.39	9.40	37.79	56.00	-18.21	QP	P	
12	1.4860	17.75	9.40	27.15	46.00	-18.85	AVG	P	

Model No.	A-8	**Test Date**	December 8, 2025
Environmental Conditions	24℃/ 56% RH	**Test Mode**	Working
Pol	Line	**Detector Function**	Quasi-peak
Test Engineer	Andy	**Test Voltage**	AC 125V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2900	31.93	9.81	41.74	60.52	-18.78	QP	P	
2	0.2900	19.44	9.81	29.25	50.52	-21.27	AVG	P	
3	0.4740	28.91	9.72	38.63	56.44	-17.81	QP	P	
4	0.4740	17.87	9.72	27.59	46.44	-18.85	AVG	P	
5	0.6620	28.87	9.78	38.65	56.00	-17.35	QP	P	
6	0.6620	18.49	9.78	28.27	46.00	-17.73	AVG	P	
7	0.7780	29.73	9.71	39.44	56.00	-16.56	QP	P	
8 *	0.7780	21.79	9.71	31.50	46.00	-14.50	AVG	P	
9	1.1820	28.78	9.46	38.24	56.00	-17.76	QP	P	
10	1.1820	17.51	9.46	26.97	46.00	-19.03	AVG	P	
11	1.4900	29.27	9.39	38.66	56.00	-17.34	QP	P	
12	1.4900	17.27	9.39	26.66	46.00	-19.34	AVG	P	

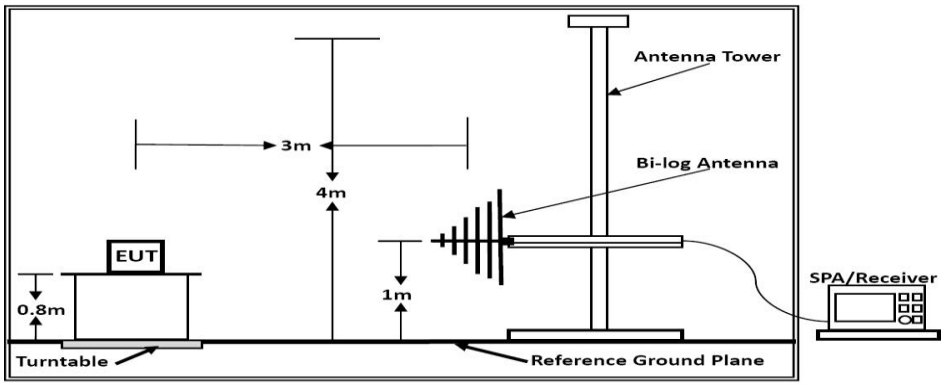
3.2. Radiated emission Measurement

3.2.1Test Equipment

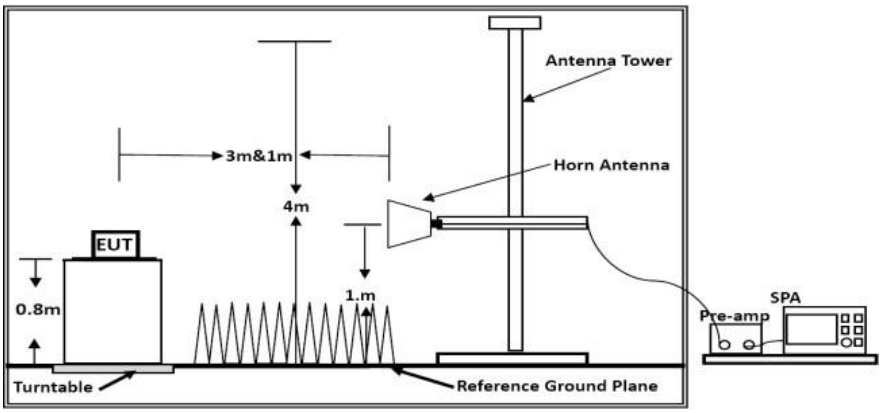
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2025/04/24	2026/04/23
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2025/04/24	2026/04/23
4	EMI Test Receiver	R&S	ESR 7	101181	2025/04/24	2026/04/23
5	Broadband Preamplifier	/	BP-01M18G	P190501	2025/04/24	2026/04/23

3.2.2.Block Diagram of Test Setup



Below 1GHz



Above 1GHz

3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		V/ m	dB(V)/ m
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54

Remark：(1) Emission level (dB) V = 20 log Emission level V/m
(2) The smaller limit shall apply at the cross point between two frequency bands.
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

Limits for Radiated Emission Above 1GHz

Frequency (MHz)	Distance (Meters)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
Above 1000	3	74	54

***Note: The lower limit applies at the transition frequency.

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

1.1.1.1. Setup the EUT as shown in Section 3.2.2.
3.2.5.2.Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 300kHz.

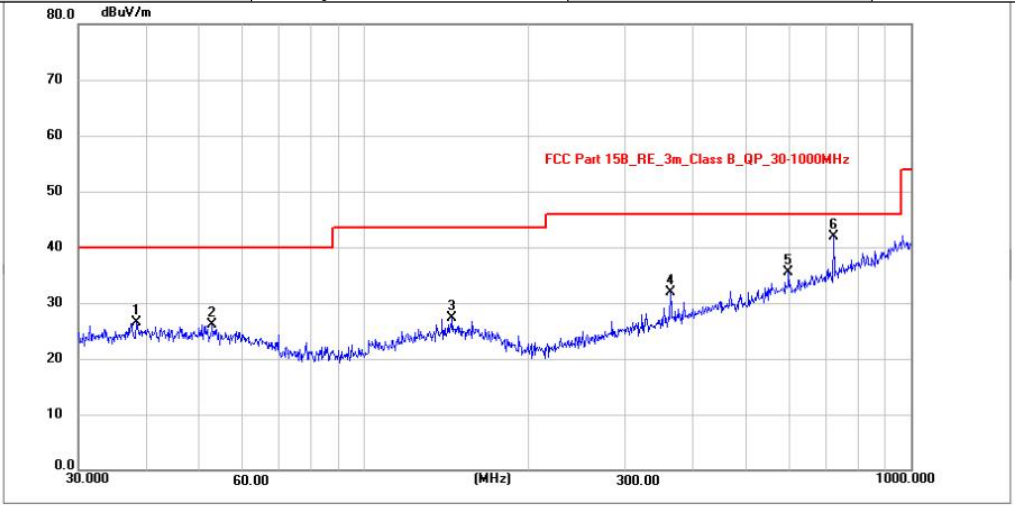
The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

PASS.

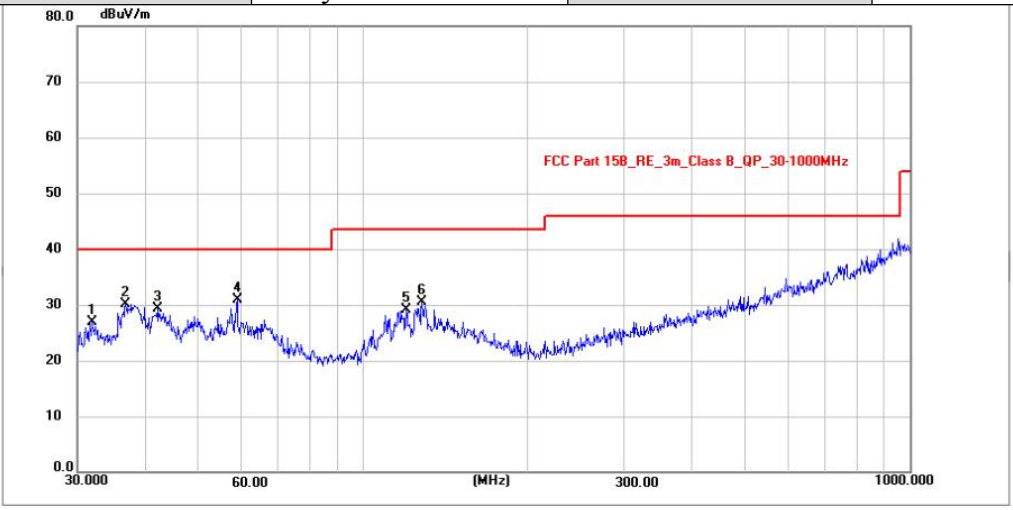
The scanning waveforms please refer to the next page.

Model No.	A-8	**Test Date**	December 8, 2025
Environmental Conditions	24℃/ 56% RH	**Test Mode**	ON
Pol	Vertical	**Detector Function**	Quasi-peak
Test Engineer	Andy	**Distance**	3m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	38.3967	12.09	14.50	26.59	40.00	-13.41	peak	100	247	P	
2	52.8294	12.22	13.98	26.20	40.00	-13.80	peak	100	344	P	
3	145.0959	12.48	14.86	27.34	43.50	-16.16	peak	100	156	P	
4	364.0999	15.53	16.42	31.95	46.00	-14.05	peak	100	74	P	
5	599.0586	13.26	22.16	35.42	46.00	-10.58	peak	100	195	P	
6 *	722.0423	17.45	24.46	41.91	46.00	-4.09	peak	100	241	P	

Model No.	A-8	**Test Date**	December 8, 2025
Environmental Conditions	24℃/ 56% RH	**Test Mode**	ON
Pol	Horizontal	**Detector Function**	Quasi-peak
Test Engineer	Andy	**Distance**	3m



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.9546	12.83	14.07	26.90	40.00	-13.10	peak	200	35	P	
2	36.8630	15.68	14.42	30.10	40.00	-9.90	peak	200	97	P	
3	42.1172	14.66	14.55	29.21	40.00	-10.79	peak	200	195	P	
4 *	58.9734	17.42	13.41	30.83	40.00	-9.17	peak	200	346	P	
5	120.1712	15.66	13.46	29.12	43.50	-14.38	peak	200	279	P	
6	128.3378	16.61	13.97	30.58	43.50	-12.92	peak	200	246	P	

4. PHOTOGRAPH

Fig.1

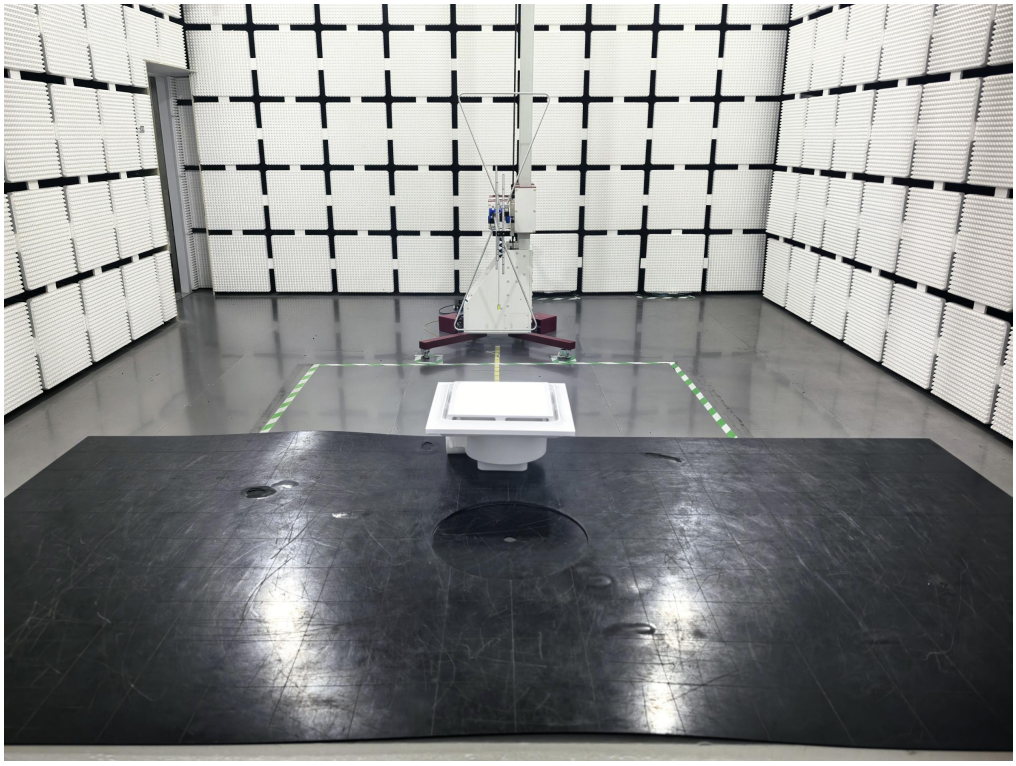


Fig.2

5. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

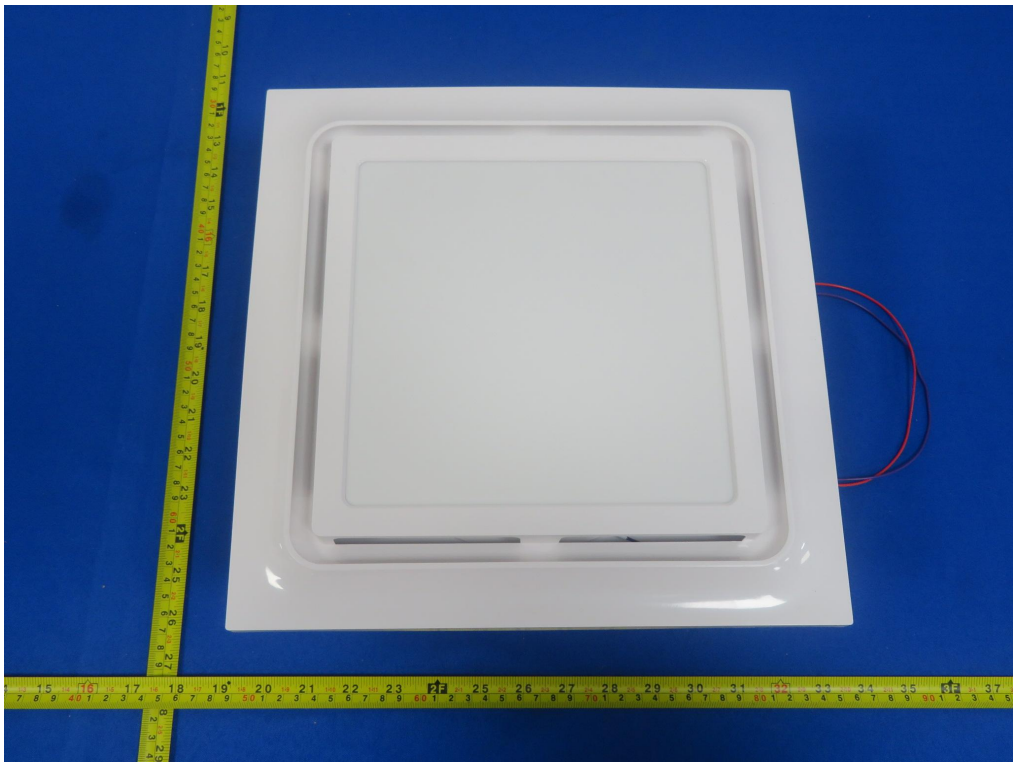


Fig.1

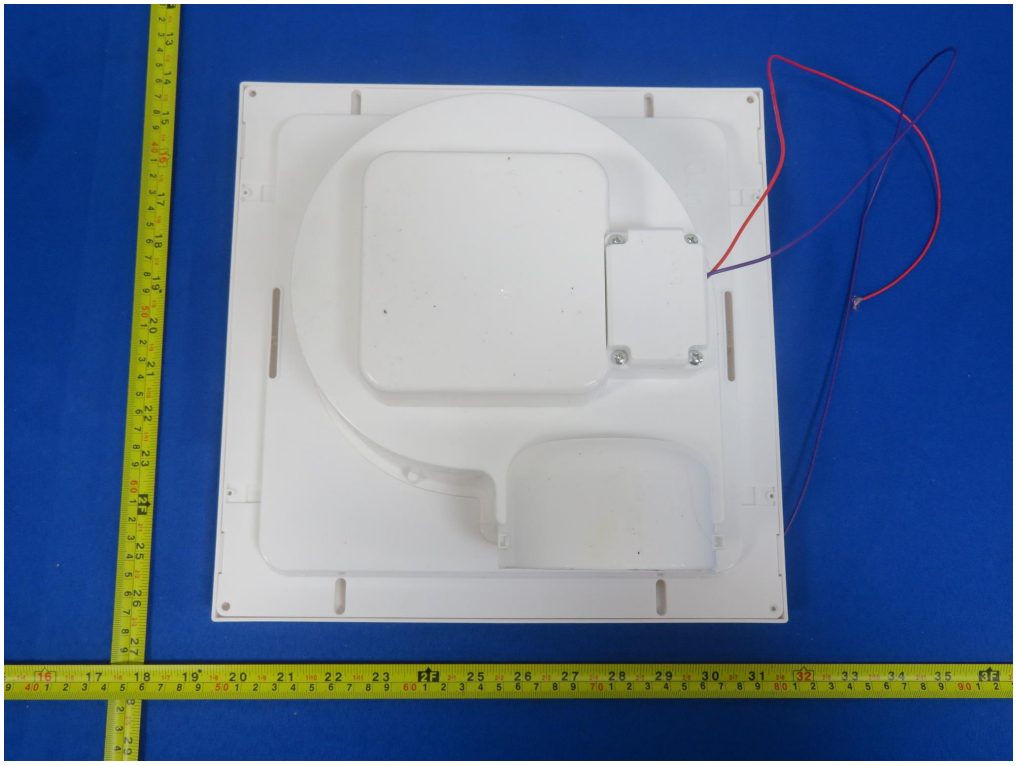


Fig.2

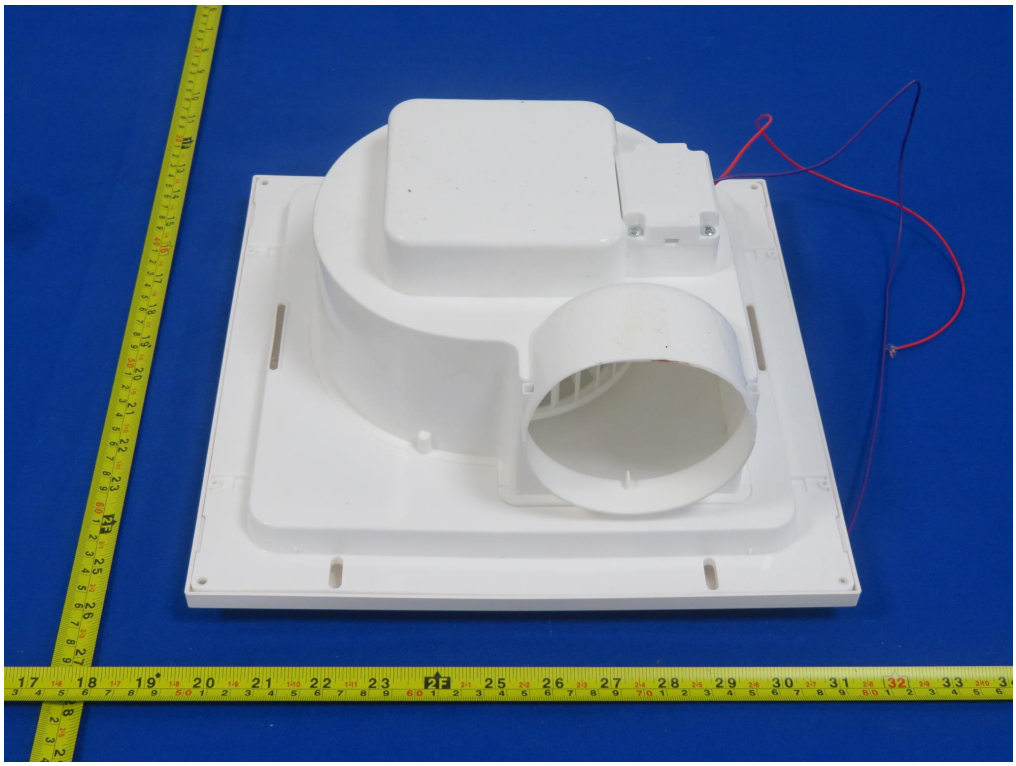


Fig.3

Fig.4

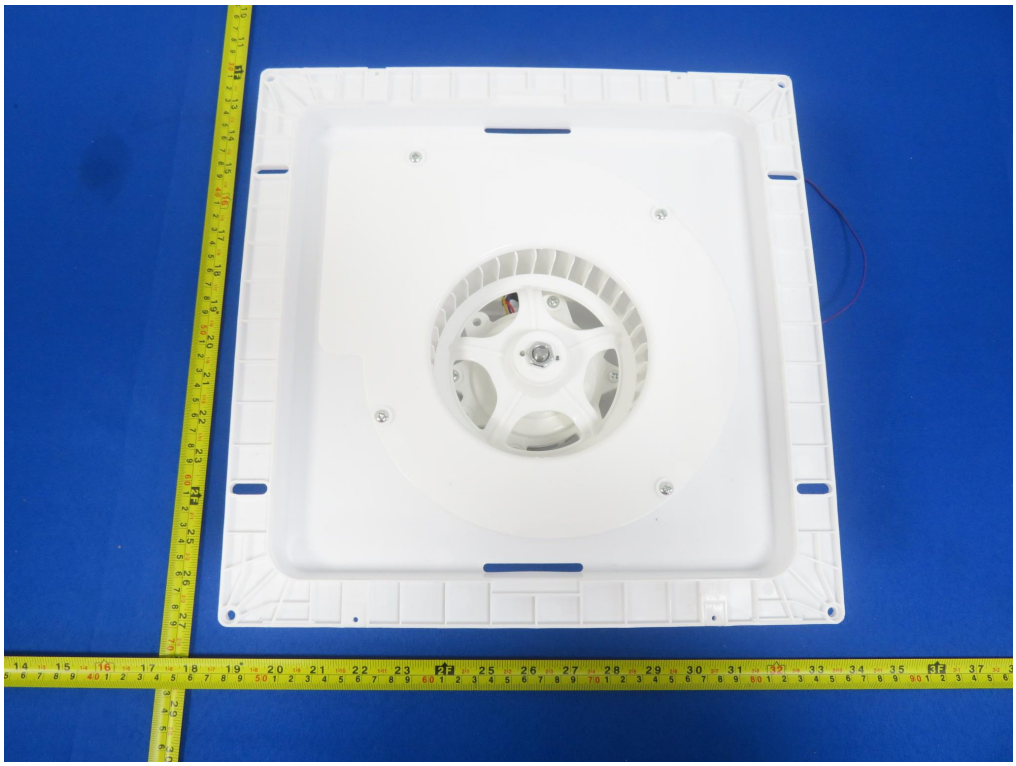


Fig.5

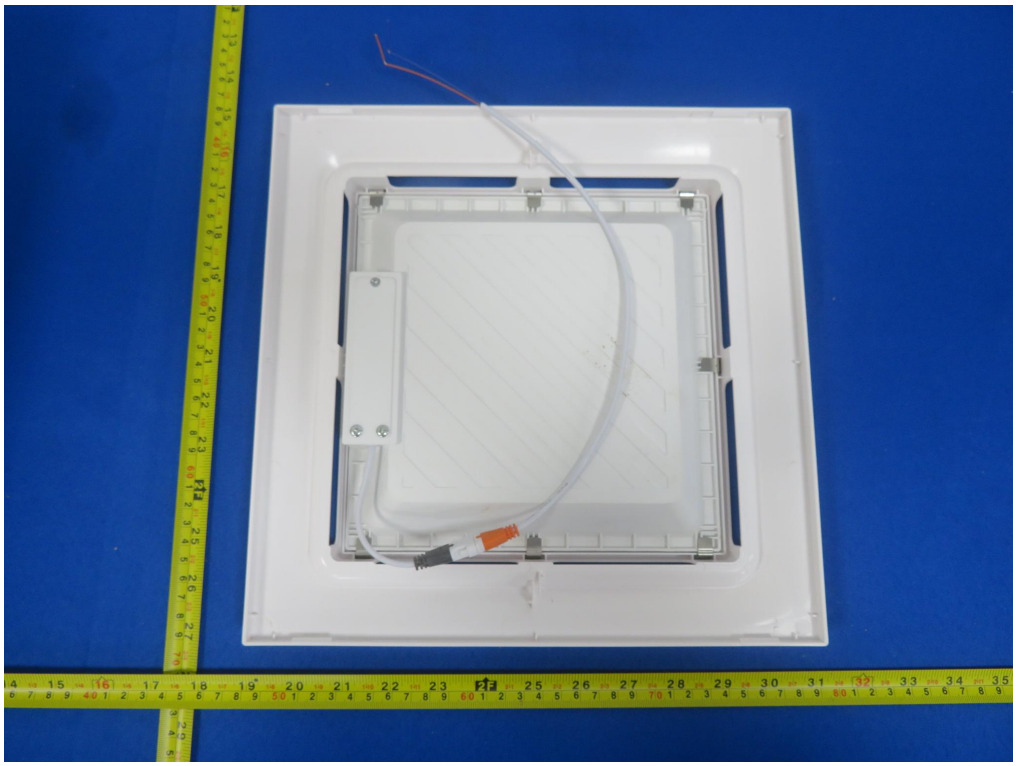


Fig.6

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