

# TECHNICAL REPORT



Report No.: TW2105237E

File Reference No.: 2021-06-19

Applicant: King of Fans, Inc.

Product: P250073

Brand Name: Progress Lighting

Model No.: P250073

Test Standards: FCC Part 15 Subpart B

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tong'.

Terry Tong

Manager

Dated: June 19, 2021

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES.**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688 Fax (755) 83442996 Email: [info@timeway-lab.com](mailto:info@timeway-lab.com)



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01



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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996

### 1.2 Applicant Details

Applicant: King of Fans, Inc.  
Address: 1951 N.W. 22nd Street, Fort Lauderdale, FL33311, USA  
Telephone: 954-484-7500  
Fax: 954-784-7602

### 1.3 Description of EUT

Product: P250073  
Manufacturer: Chienluen Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451  
Brand Name: Progress Lighting  
Model Number: P250073  
Rating: Input: 120V~, 60Hz, FAN W/O Light Kit: 0.6A, 40W  
Rx Frequency: 433.92MHz

### 1.4 Submitted Sample: 1 pc

### 1.5 Test Duration

Date of Receipt of Application: May 17, 2021  
Date of Receipt of Test Item: May 17, 2021  
Date of Test: May 17, 2021 ~ June 19, 2021

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions below 1GHz Uncertainty =4.7dB  
Radiated Emissions above 1GHz Uncertainty =6.0dB

### 1.7 Test Engineer

The sample tested by

Print Name: Leo Lau



## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2020.06.23	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1 Year
LISN	NNB42	00012	SCHAFFNER	2021.01.06	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2020.06.23	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2020.06.23	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2020.06.23	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2020.06.23	1 Year

### 2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
N/A			

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

#### 3.2 Test Standards

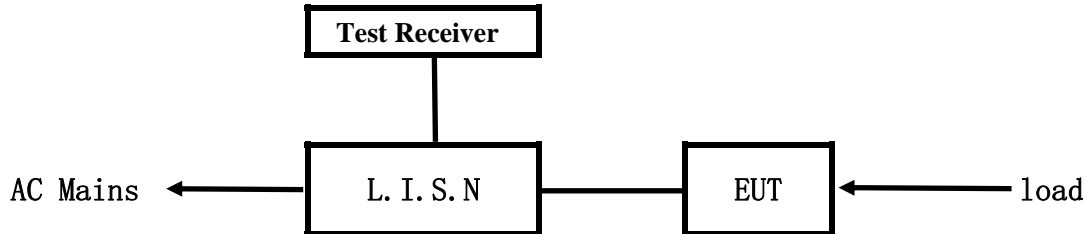
**FCC Part 15 Subpart B**

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



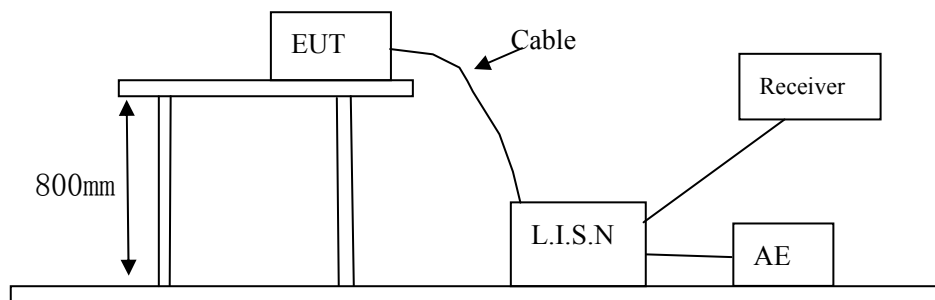
EUT: Equipment Under Test

##### 4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit

Frequency (MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. \*decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

##### 4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: for this report, only receiving mode was tested.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

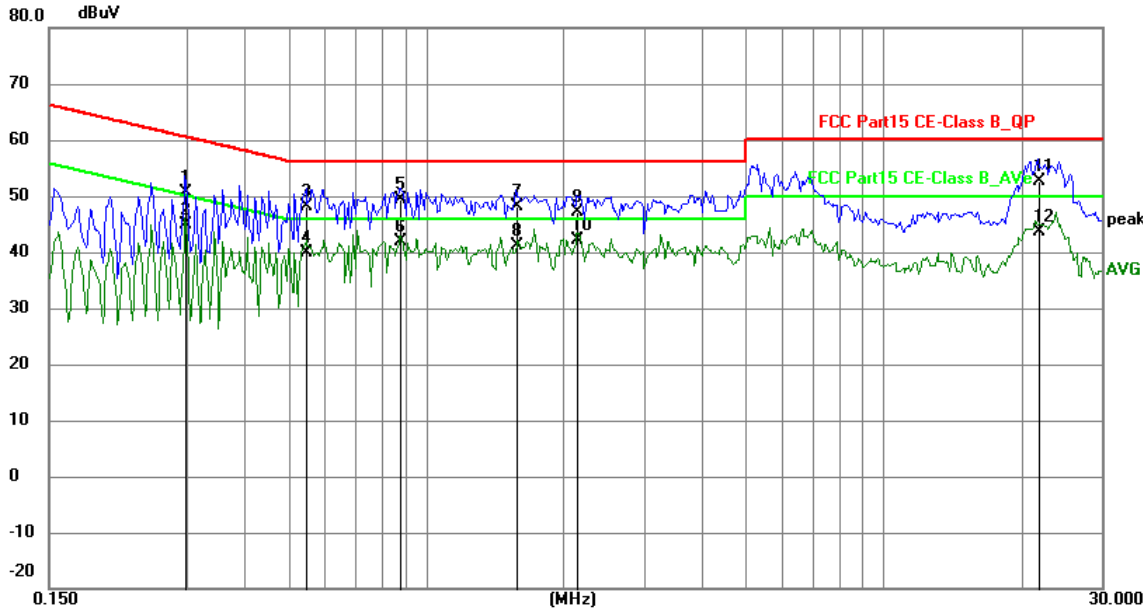
**EUT Operating Environment**

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2982	40.89	9.76	50.65	60.29	-9.64	QP	P
2	0.2982	35.12	9.76	44.88	50.29	-5.41	AVG	P
3	0.5477	38.27	9.77	48.04	56.00	-7.96	QP	P
4	0.5477	30.23	9.77	40.00	46.00	-6.00	AVG	P
5	0.8792	39.56	9.79	49.35	56.00	-6.65	QP	P
6	0.8792	32.12	9.79	41.91	46.00	-4.09	AVG	P
7	1.5696	38.29	9.80	48.09	56.00	-7.91	QP	P
8	1.5696	31.32	9.80	41.12	46.00	-4.88	AVG	P
9	2.1350	37.24	9.81	47.05	56.00	-8.95	QP	P
10	2.1350	32.24	9.81	42.05	46.00	-3.95	AVG	P
11	21.7667	41.85	10.79	52.64	60.00	-7.36	QP	P
12	21.7667	32.85	10.79	43.64	50.00	-6.36	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

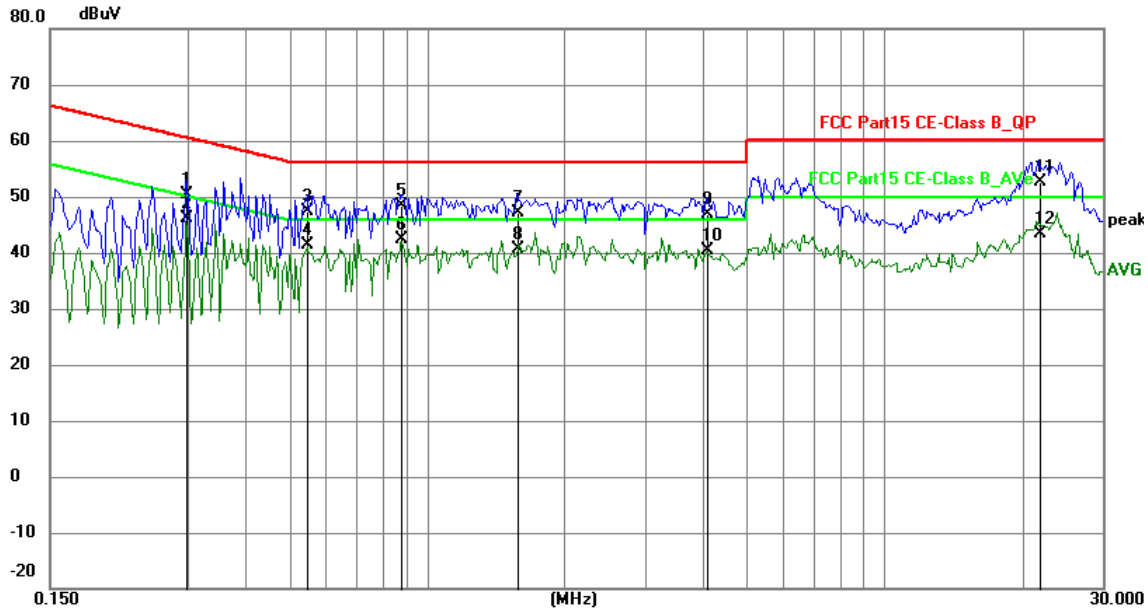
**EUT Operating Environment**

Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**Results: Pass**

Please refer to following diagram for individual



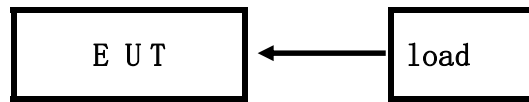
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2982	40.68	9.76	50.44	60.29	-9.85	QP	P
2	0.2982	36.39	9.76	46.15	50.29	-4.14	AVG	P
3	0.5475	37.53	9.77	47.30	56.00	-8.70	QP	P
4	0.5475	31.54	9.77	41.31	46.00	-4.69	AVG	P
5	0.8790	38.71	9.79	48.50	56.00	-7.50	QP	P
6	0.8790	32.56	9.79	42.35	46.00	-3.65	AVG	P
7	1.5696	37.35	9.80	47.15	56.00	-8.85	QP	P
8	1.5696	30.79	9.80	40.59	46.00	-5.41	AVG	P
9	4.0842	36.99	9.89	46.88	56.00	-9.12	QP	P
10	4.0842	30.52	9.89	40.41	46.00	-5.59	AVG	P
11	21.7667	41.85	10.79	52.64	60.00	-7.36	QP	P
12	21.7667	32.48	10.79	43.27	50.00	-6.73	AVG	P

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

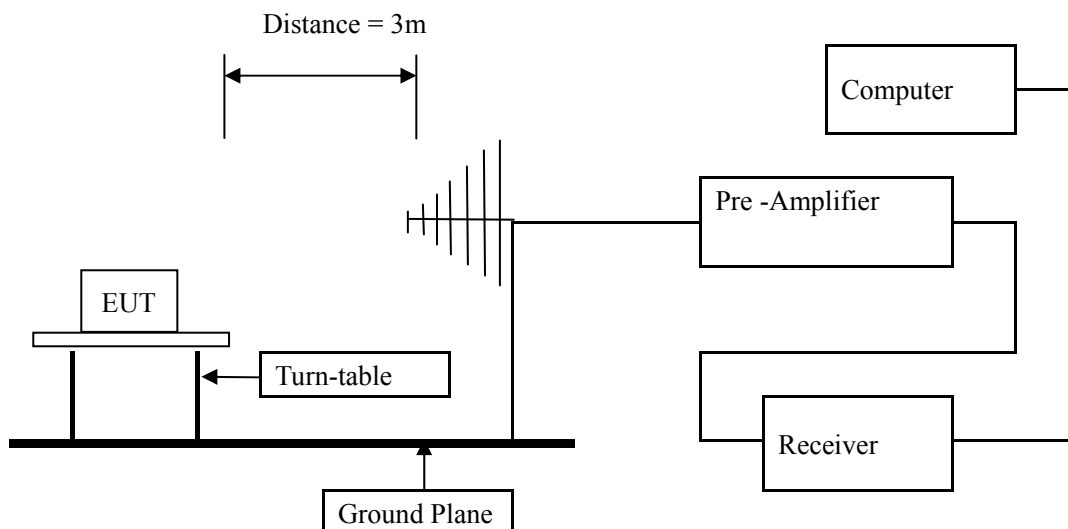


### 5.2 Test Method and test Procedure:

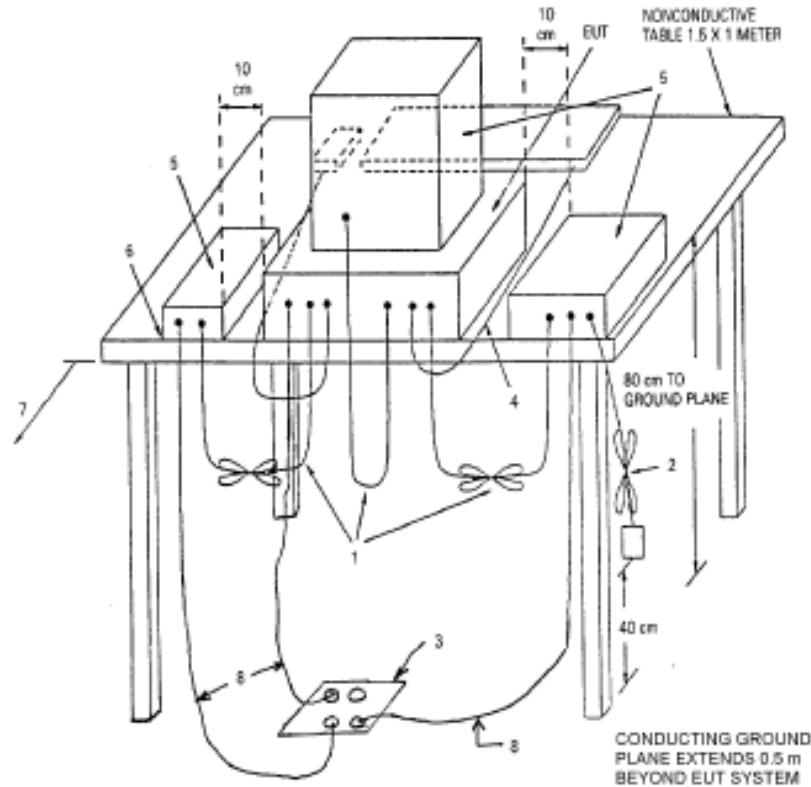
The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

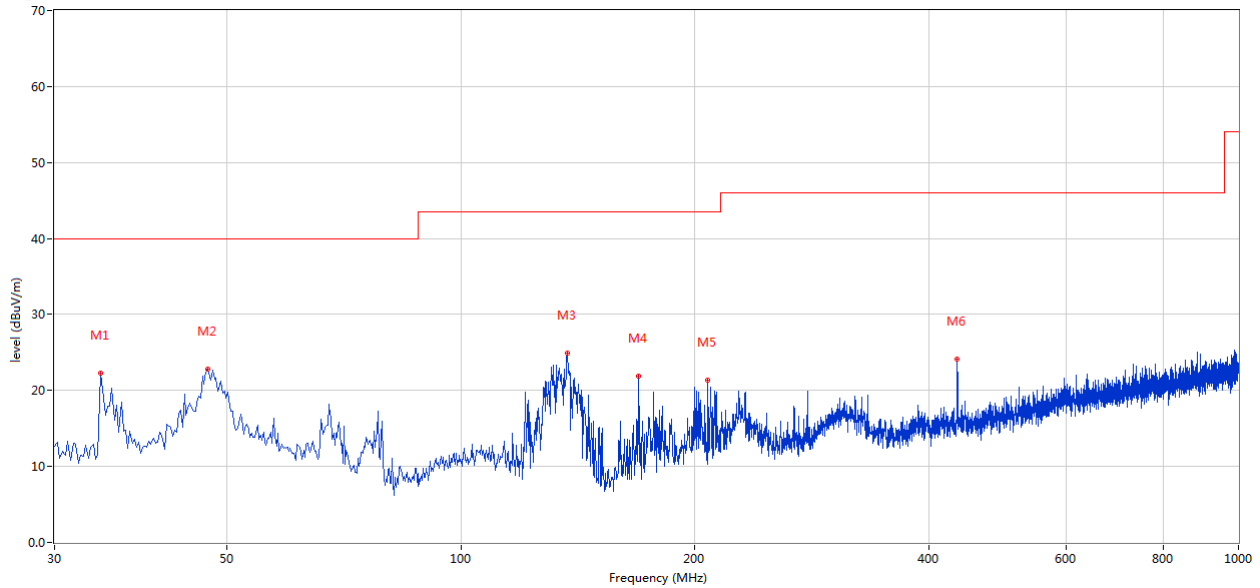
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**A: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE4	Test Time:	2021-06-10_10.05.17
EUT Name:	P250073	Test Engineer:	KENT
Manufacturer:	Chienluen Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	P250073	Work Addition:	Receiving
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

FCC\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	34.364	22.23	-14.17	40.0	-17.77	Peak	355.00	100	Horizontal	Pass
2	47.213	22.76	-11.41	40.0	-17.24	Peak	330.00	100	Horizontal	Pass
3	137.158	24.97	-17.21	43.5	-18.53	Peak	357.00	100	Horizontal	Pass
4	169.160	21.88	-16.10	43.5	-21.62	Peak	360.00	100	Horizontal	Pass
5	207.708	21.34	-13.68	43.5	-22.16	Peak	359.00	100	Horizontal	Pass
6	435.116	24.13	-8.01	46.0	-21.87	Peak	340.00	100	Horizontal	Pass

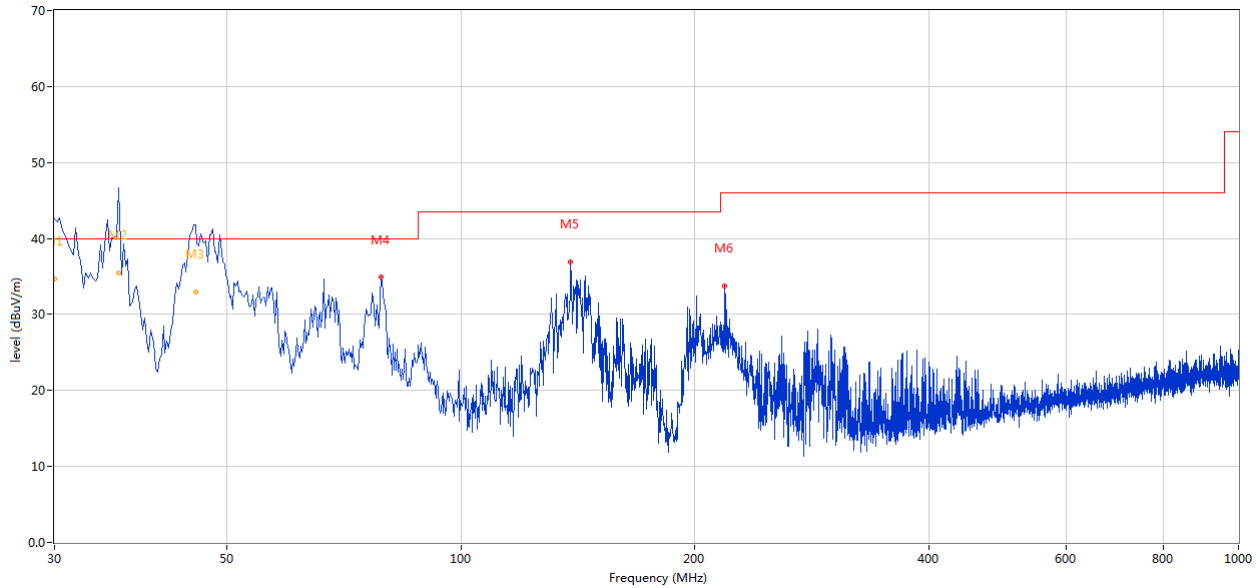
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**B: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE4	Test Time:	2021-06-10_10.01.24
EUT Name:	P250073	Test Engineer:	KENT
Manufacturer:	Chienlun Industries (zhongshan) Ltd..	Test Standard:	FCC PART 15B
Model:	P250073	Work Addition:	Receiving
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

FCC\_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	42.63	-14.19	40.0	2.63	Peak	348.00	100	Vertical	N/A
1*	30.000	34.63	-14.19	40.0	-5.37	QP	348.00	100	Vertical	Pass
2	36.303	46.63	-13.57	40.0	6.63	Peak	325.00	100	Vertical	N/A
2*	36.303	35.47	-13.57	40.0	-4.53	QP	325.00	100	Vertical	Pass
3	45.516	41.84	-11.39	40.0	1.84	Peak	327.00	100	Vertical	N/A
3*	45.516	32.93	-11.39	40.0	-7.07	QP	327.00	100	Vertical	Pass
4	78.973	34.87	-17.46	40.0	-5.13	Peak	313.00	100	Vertical	Pass
5	138.370	36.86	-17.27	43.5	-6.64	Peak	340.00	100	Vertical	Pass
6	218.618	33.78	-13.35	46.0	-12.22	Peak	323.00	100	Vertical	Pass

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**C: Radiated Disturbance (1000MHz----6000MHz)**

**EUT Operating Environment**

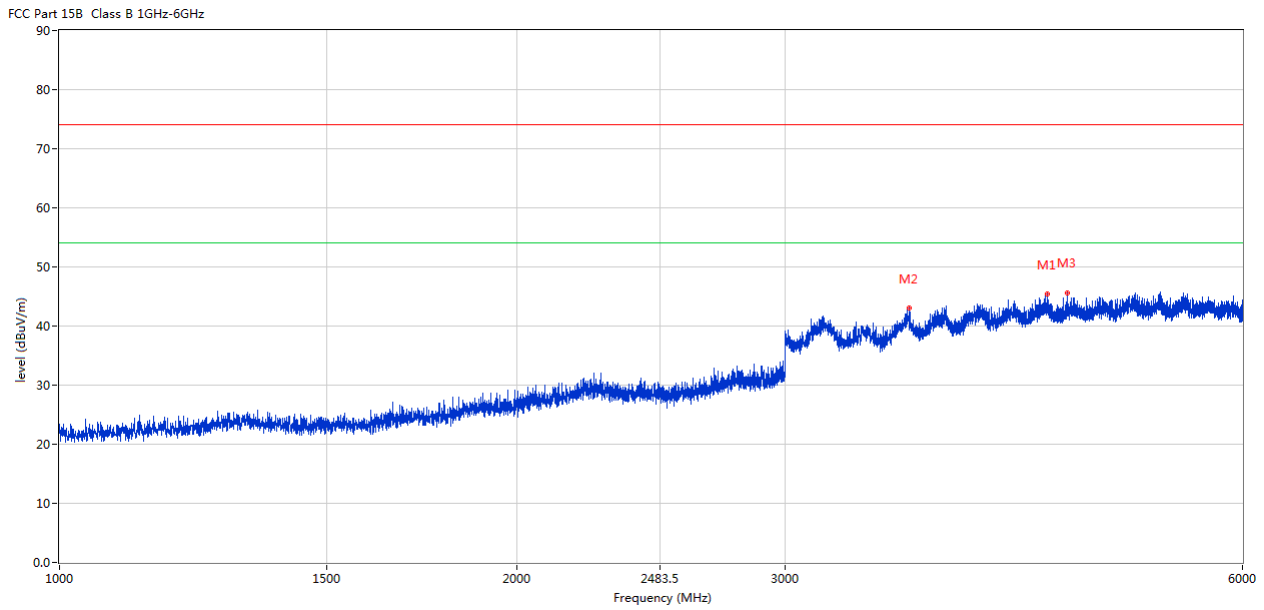
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	4463.250	45.39	2.13	74.0	-28.61	Peak	2.00	100	Horizontal	Pass
2	3621.000	42.97	-0.52	74.0	-31.03	Peak	0.00	100	Horizontal	Pass
3	4599.750	45.68	2.56	74.0	-28.32	Peak	12.00	100	Horizontal	Pass

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**D: Radiated Disturbance (1000MHz----6000MHz)**

**EUT Operating Environment**

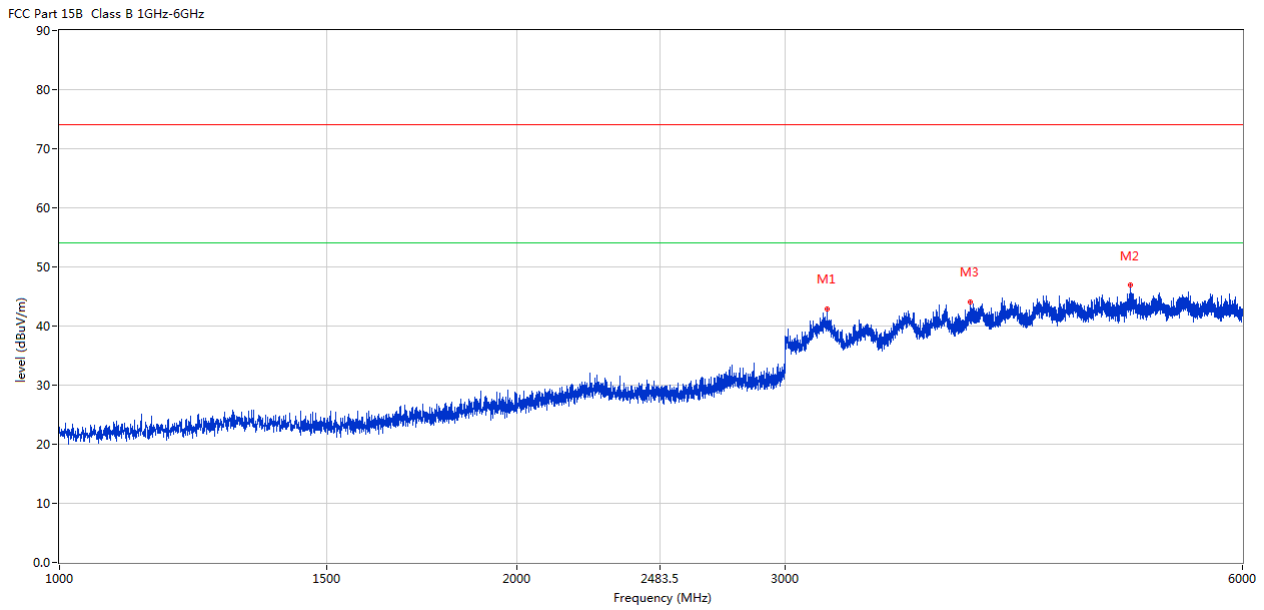
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	3198.750	42.92	-1.97	74.0	-31.08	Peak	6.00	100	Vertical	Pass
2	5059.500	46.88	3.67	74.0	-27.12	Peak	7.00	100	Vertical	Pass
3	3970.500	44.08	1.09	74.0	-29.92	Peak	1.00	100	Vertical	Pass

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## 6.0 FCC Label

### FCC ID: RGB-P250073D

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



Label Location

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## 7.0 Photo of testing

### Conducted Emissions



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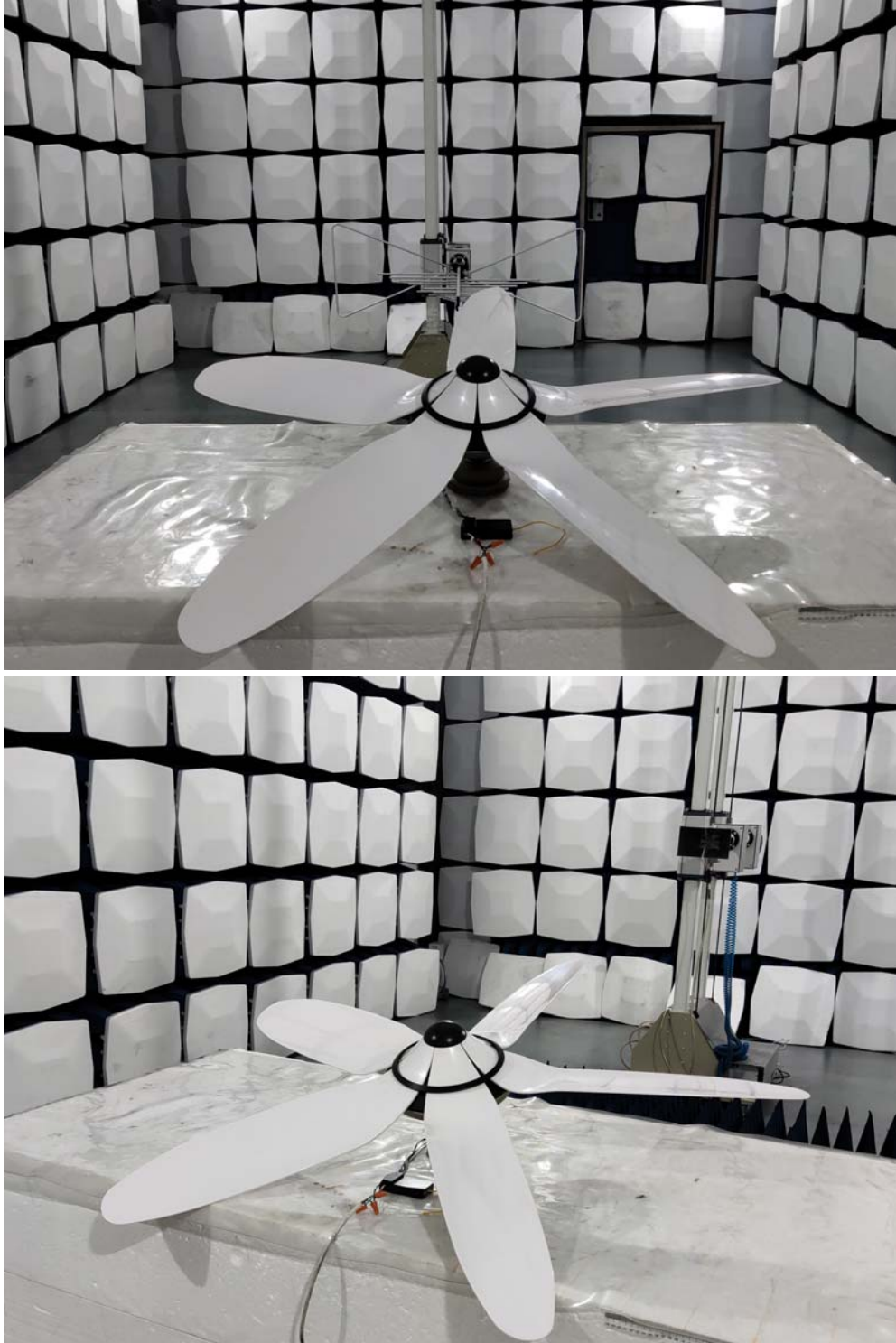
This report is issued in confidential to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for illegal purpose. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES to his customer.

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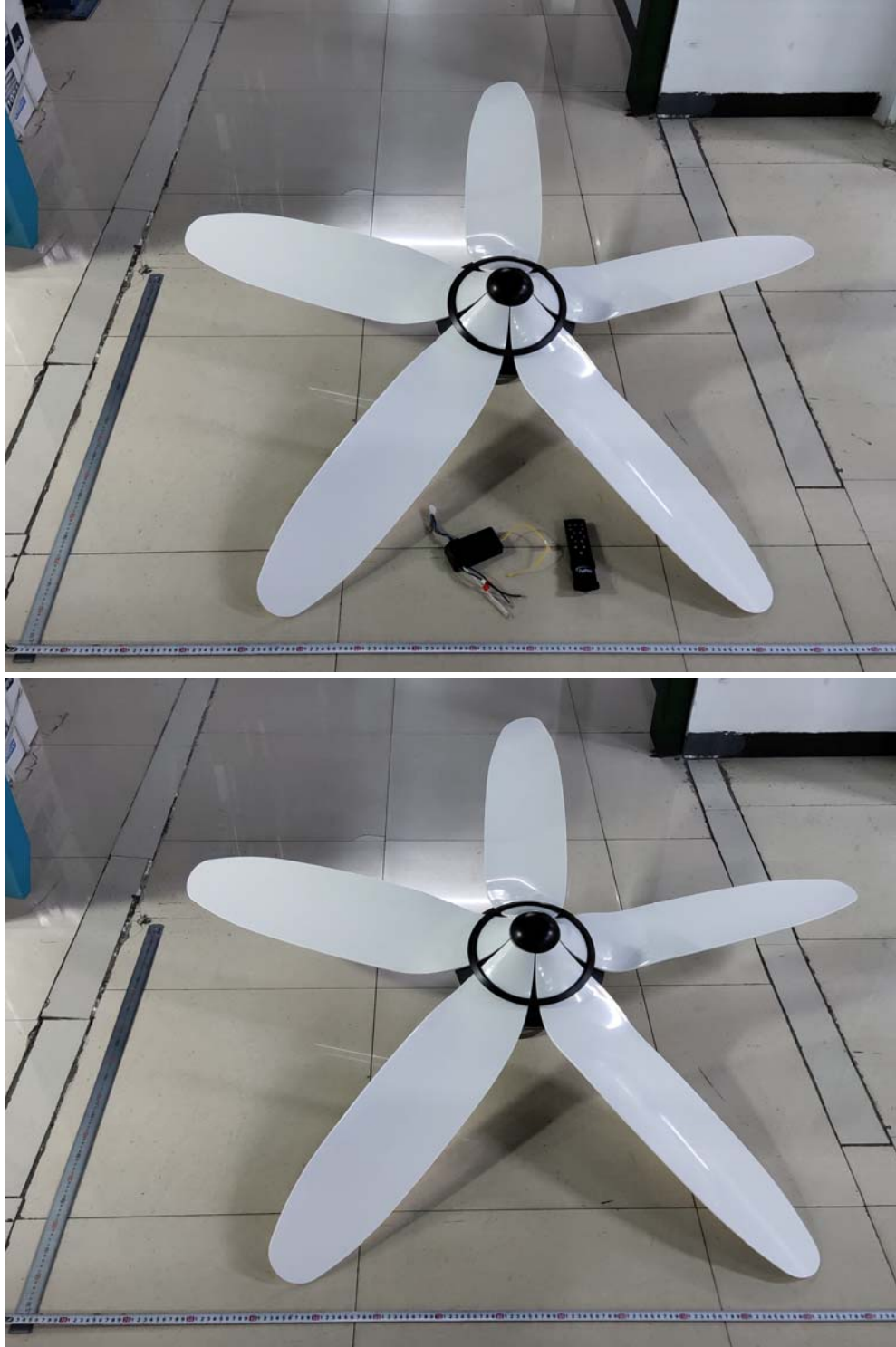


### Radiated Emissions



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Photographs – EUT



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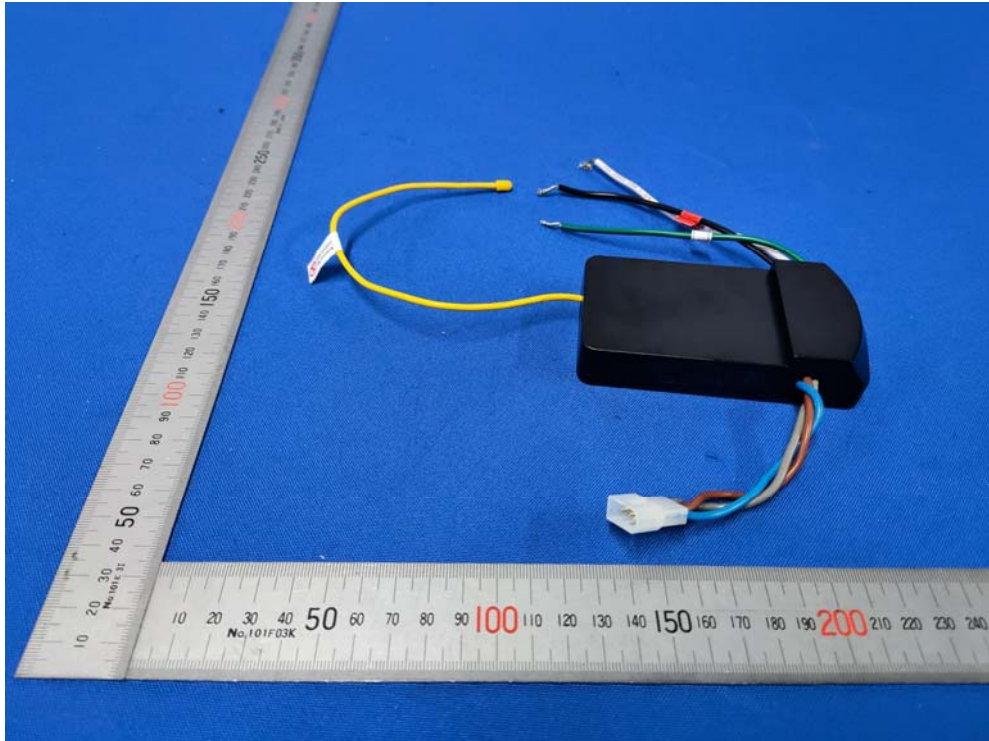
Photographs – EUT



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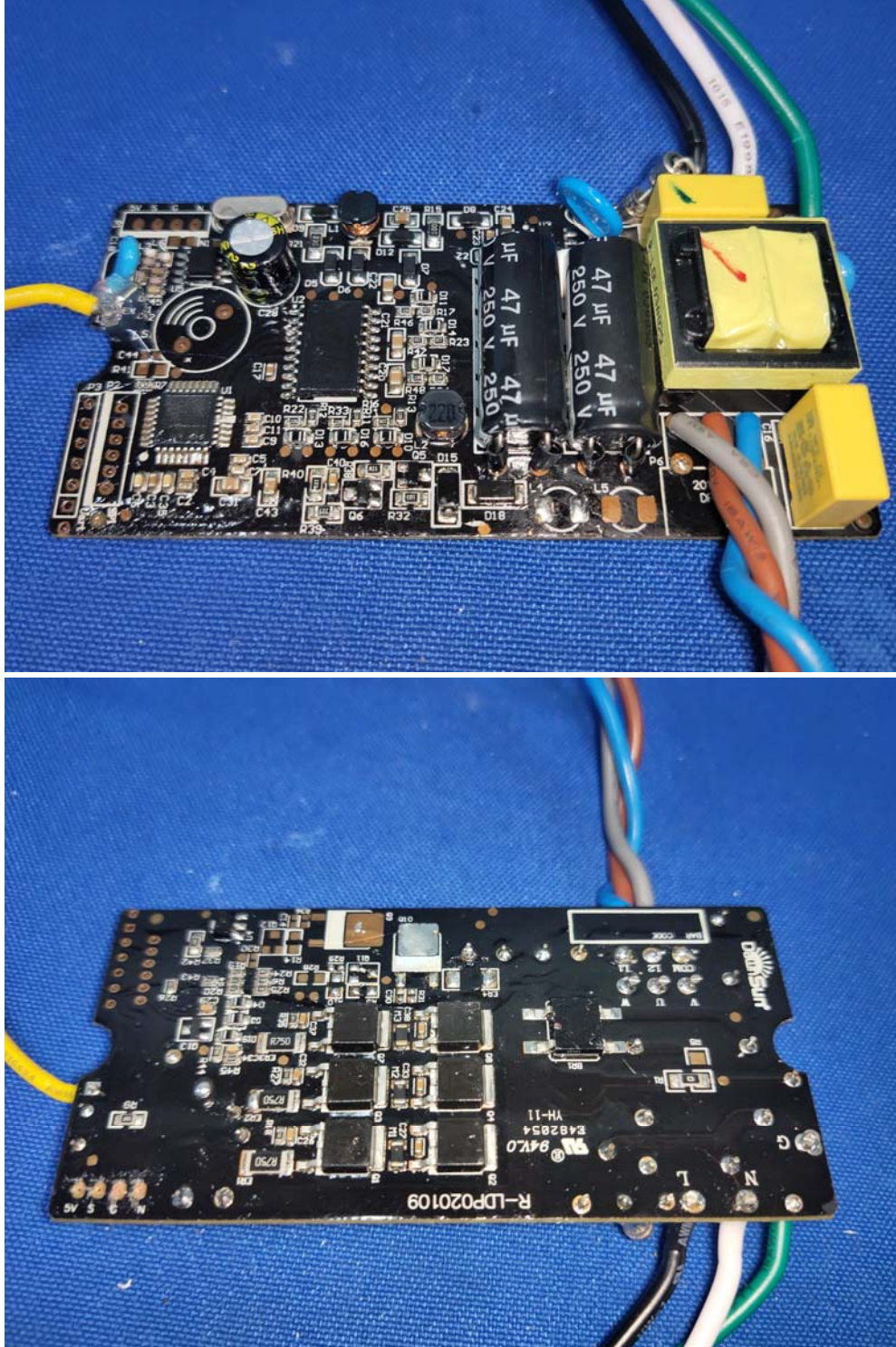
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**End of The Report**

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