

TECHNICAL REPORT



Report No.: FCC2006310

File Reference No.: 2020-08-03

Applicant: King of Fans, Inc.

Product: P250003

Brand Name: Progress Lighting

Model No.: P250003

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: August 03, 2020

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



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: P250003
Manufacturer: Chienluen Industries (zhongshan) Ltd..
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451
Brand Name: Progress Lighting
Model Number: P250003
Rating : Input: 120V, 60Hz
Rx Frequency: 433.92MHz

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

Date of Receipt of Application: June 28, 2020
Date of Receipt of Test Item: June 28, 2020
Date of Test: June 28, 2020 ~ July 30, 2020

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	2020.01.07	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

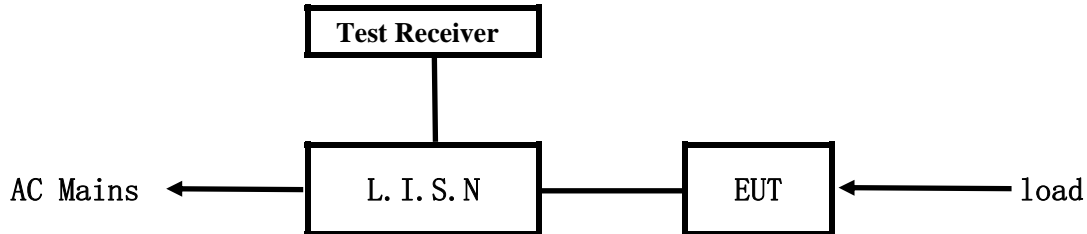
FCC Part 15 Subpart B

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4.0 Conducted Power line Test

4.1 Schematics of the test



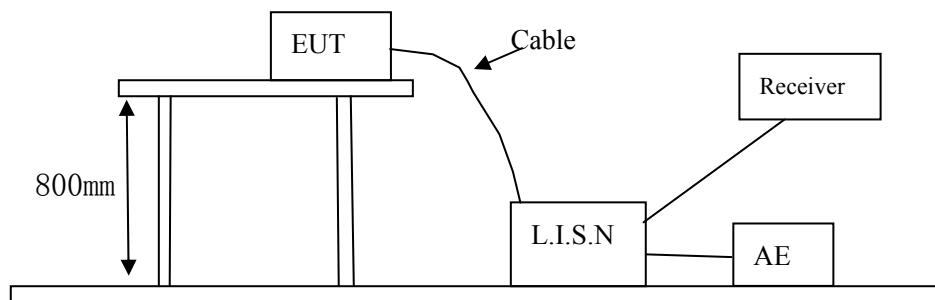
EUT: Equipment Under Test

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(μ V)		Class B Limits dB(μ V)	
	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 ~ 5.0	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
- *decreasing linearly with logarithm of frequency.
 - 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.

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

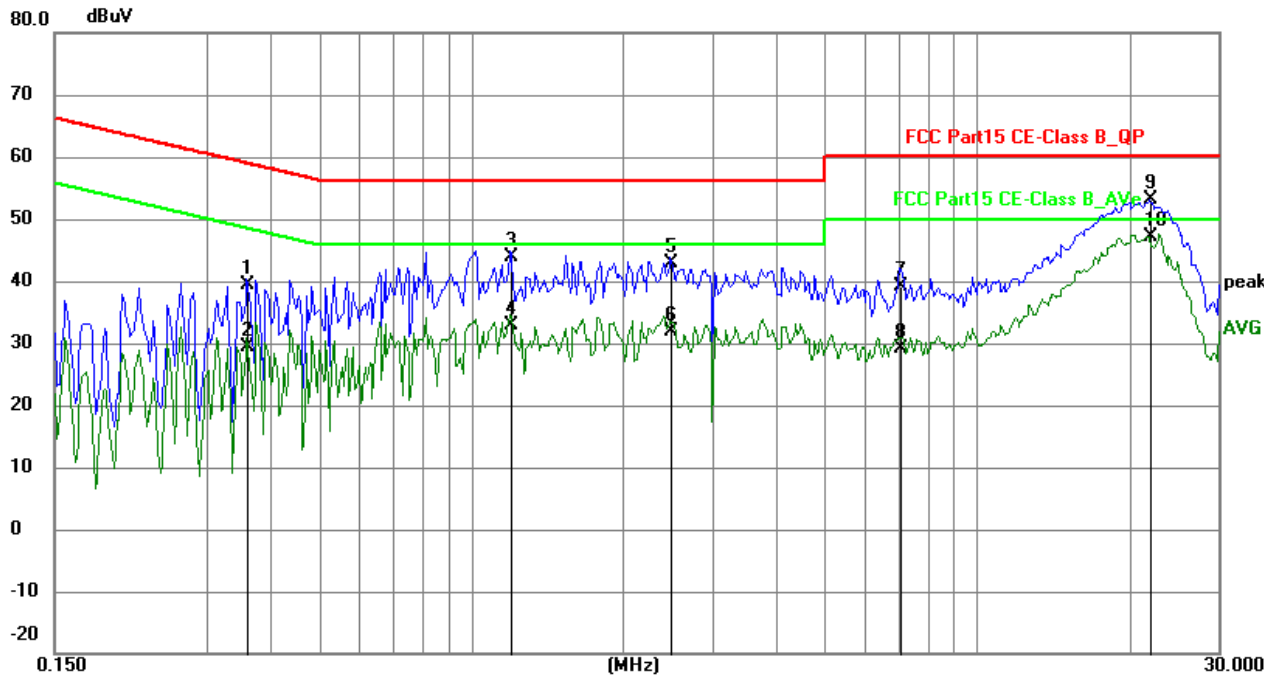
EUT Operating Environment

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	0.3602	29.34	10.10	39.44	58.72	-19.28	QP	P
2	0.3602	19.24	10.10	29.34	48.72	-19.38	AVG	P
3	1.1952	33.08	10.90	43.98	56.00	-12.02	QP	P
4	1.1952	22.27	10.90	33.17	46.00	-12.83	AVG	P
5	2.4822	31.89	10.87	42.76	56.00	-13.24	QP	P
6	2.4822	20.84	10.87	31.71	46.00	-14.29	AVG	P
7	7.0442	27.99	11.06	39.05	60.00	-20.95	QP	P
8	7.0442	17.92	11.06	28.98	50.00	-21.02	AVG	P
9	21.9848	41.85	11.22	53.07	60.00	-6.93	QP	P
10	21.9848	35.81	11.22	47.03	50.00	-2.97	AVG	P

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

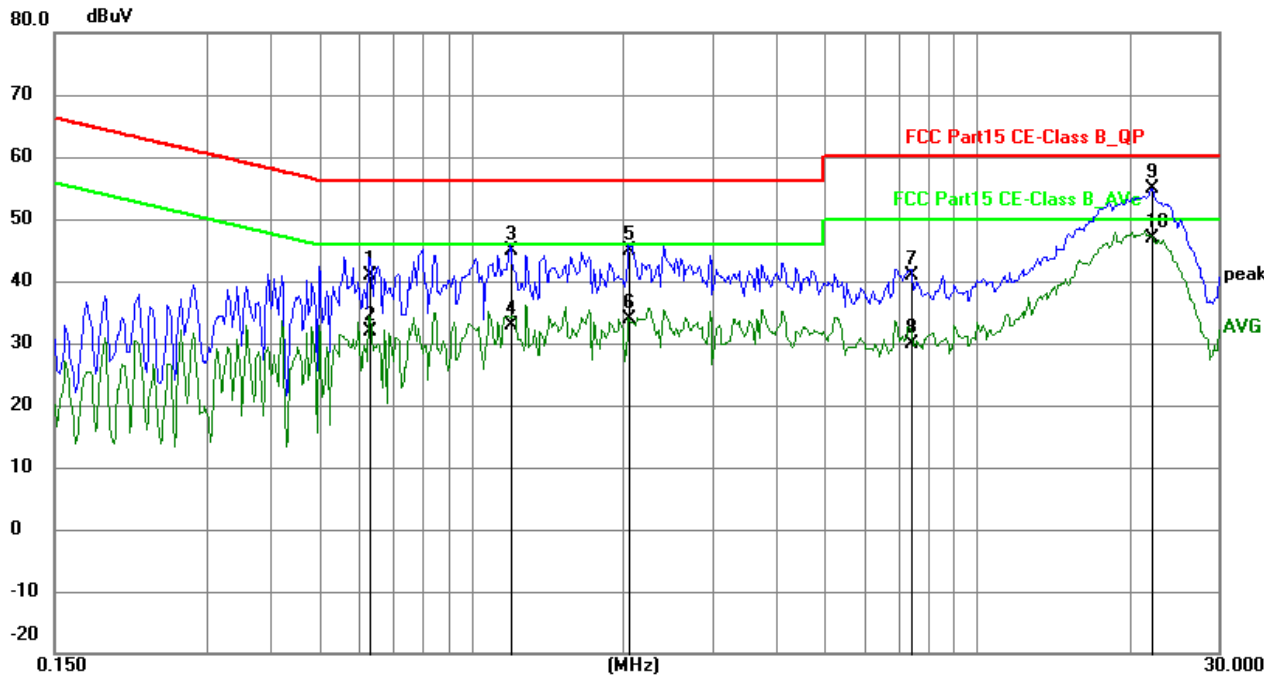
EUT Operating Environment

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

EUT set Condition : Receiving Mode

Results: Pass

Please refer to following diagram for individual



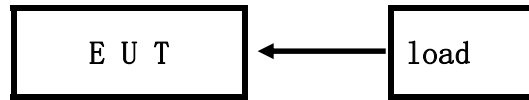
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.6297	30.53	10.44	40.97	56.00	-15.03	QP	P
2	0.6297	21.27	10.44	32.77	46.00	-13.23	AVG	P
3	1.1952	33.96	10.90	44.86	56.00	-11.14	QP	P
4	1.1952	21.87	10.90	32.77	46.00	-13.23	AVG	P
5	2.0453	33.92	10.88	44.80	56.00	-11.20	QP	P
6	2.0453	22.64	10.88	33.52	46.00	-12.48	AVG	P
7	7.4226	29.80	11.10	40.90	60.00	-19.10	QP	P
8	7.4226	18.90	11.10	23.00	50.00	-20.00	AVG	P
9	22.1685	43.57	11.23	54.80	60.00	-5.20	QP	P
10	22.1685	35.60	11.23	46.83	50.00	-3.17	AVG	P

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

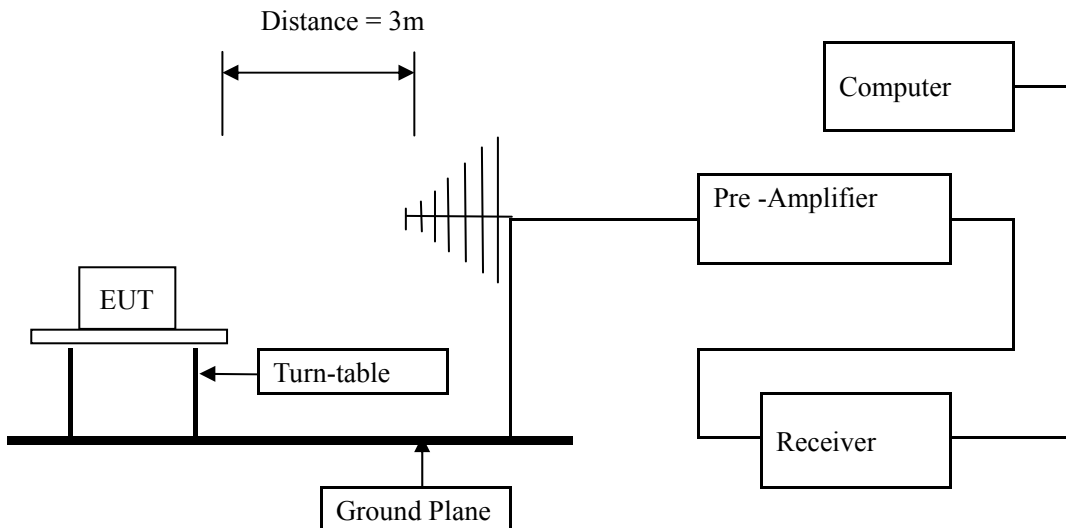


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 5GHz 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

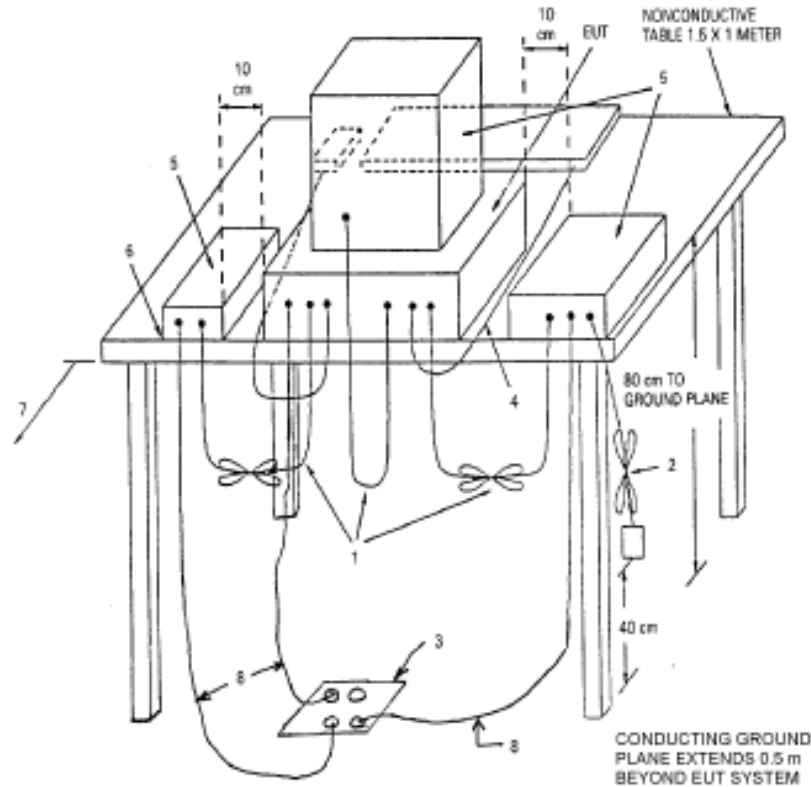


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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ 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 5GHz 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.

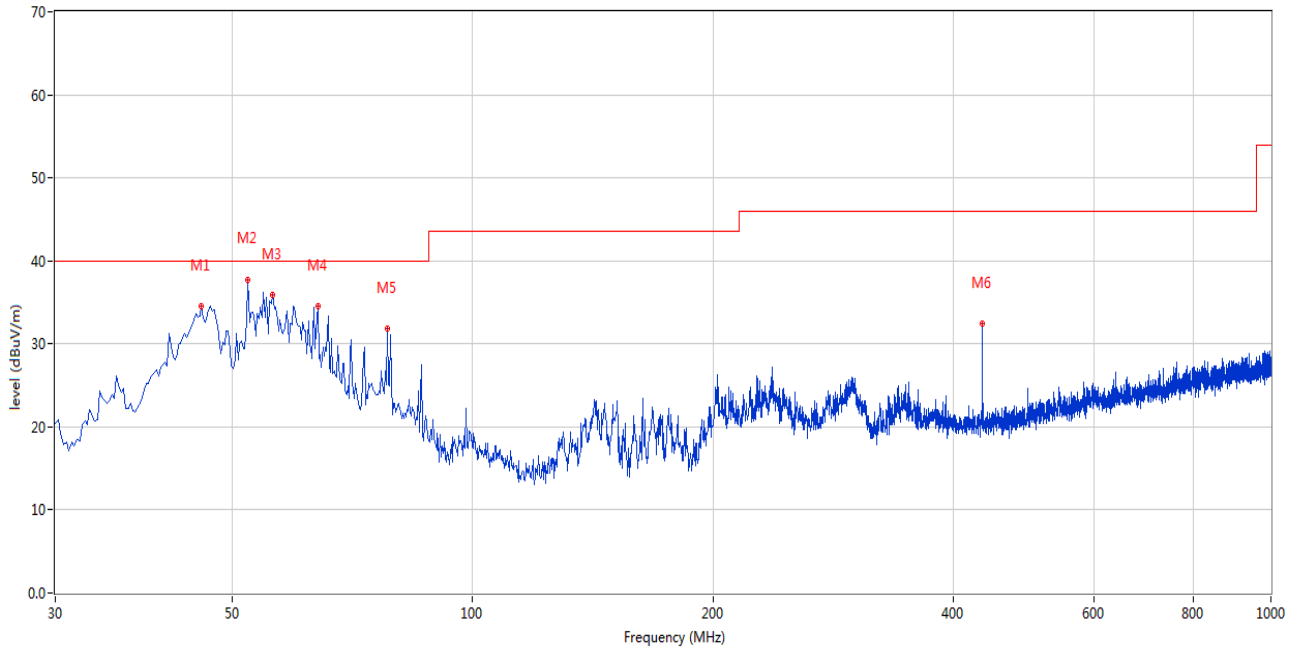
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A: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2020-07-09_10.41.58
EUT Name:	P250003	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC Part 15C
Model:	P250003	Work Addition:	Receiving Mode
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

FCC_FCC Part 15C 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	45.759	34.52	-11.40	40.0	-5.48	Peak	51.00	100	H	Pass
2	52.304	37.70	-11.45	40.0	-2.30	Peak	360.00	100	H	Pass
3	56.183	35.83	-12.07	40.0	-4.17	Peak	332.00	100	H	Pass
4	63.942	34.54	-13.32	40.0	-5.46	Peak	219.00	100	H	Pass
5	78.245	31.84	-17.48	40.0	-8.16	Peak	360.00	100	H	Pass
6	435.116	32.46	-8.01	46.0	-13.54	Peak	214.00	100	H	Pass

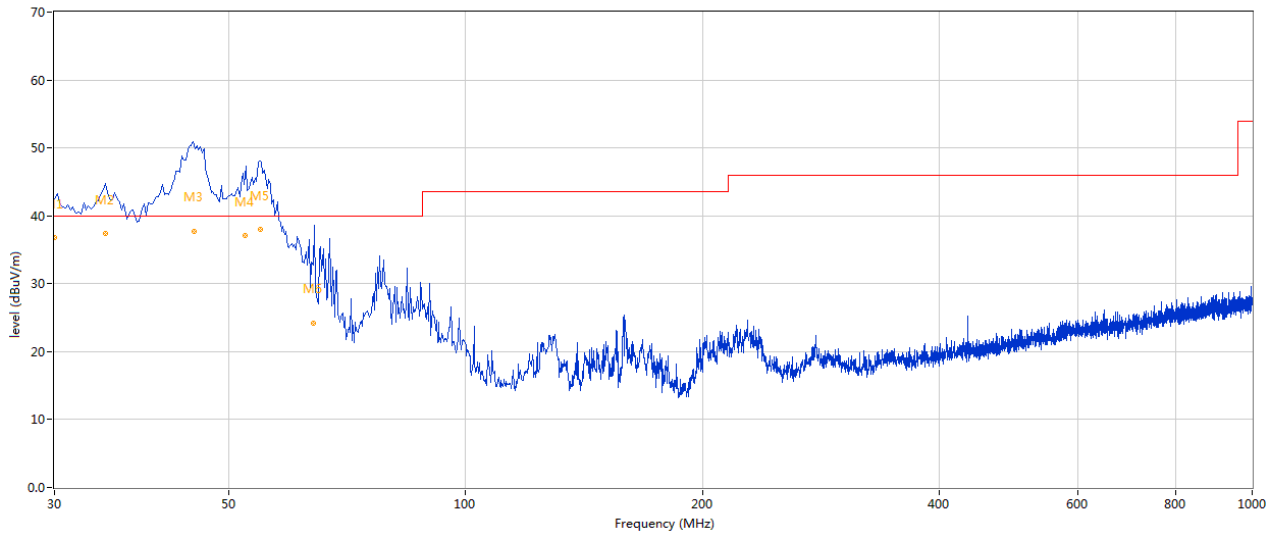
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B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2020-07-09_10.49.31
EUT Name:	P250003	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC Part 15C
Model:	P250003	Work Addition:	Receiving Mode
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

FCC_FCC Part 15C 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	30.011	44.54	-14.31	40.0	4.54	Peak	124.00	103	V	N/A
1*	30.011	36.80	-14.31	40.0	-3.20	QP	124.00	103	V	Pass
2	34.833	44.37	-14.06	40.0	4.37	Peak	168.00	151	V	N/A
2*	34.833	37.44	-14.06	40.0	-2.56	QP	168.00	151	V	Pass
3	45.174	52.11	-11.41	40.0	12.11	Peak	103.00	177	V	N/A
3*	45.174	37.65	-11.41	40.0	-2.35	QP	103.00	177	V	Pass
4	52.439	47.52	-11.46	40.0	7.52	Peak	89.00	102	V	N/A
4*	52.439	37.15	-11.46	40.0	-2.85	QP	89.00	102	V	Pass
5	54.897	46.84	-11.72	40.0	6.84	Peak	38.00	103	V	N/A
5*	54.897	37.97	-11.72	40.0	-2.03	QP	38.00	103	V	Pass
6	64.078	38.68	-13.37	40.0	-1.32	Peak	71.00	105	V	Pass
6*	64.078	24.20	-13.37	40.0	-15.80	QP	71.00	105	V	Pass

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C: Radiated Disturbance (1000MHz----5000MHz)

EUT Operating Environment

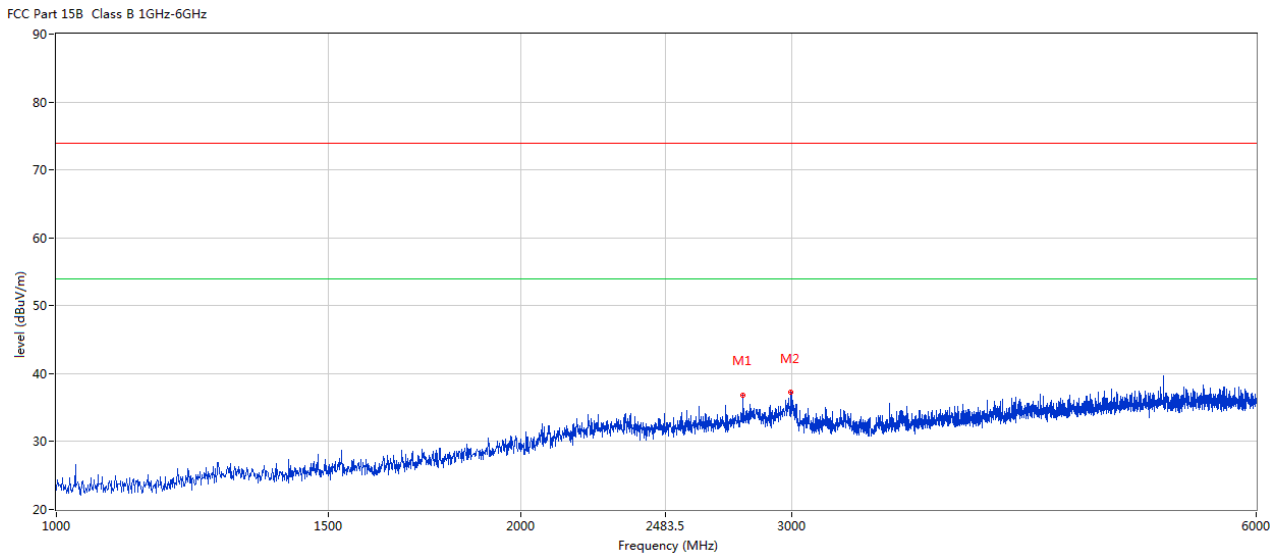
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2788.303	36.89	-2.73	74.0	-37.11	Peak	360.00	100	H	Pass
2	2994.501	37.30	-2.64	74.0	-36.70	Peak	306.00	100	H	Pass

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D: Radiated Disturbance (1000MHz----5000MHz)

EUT Operating Environment

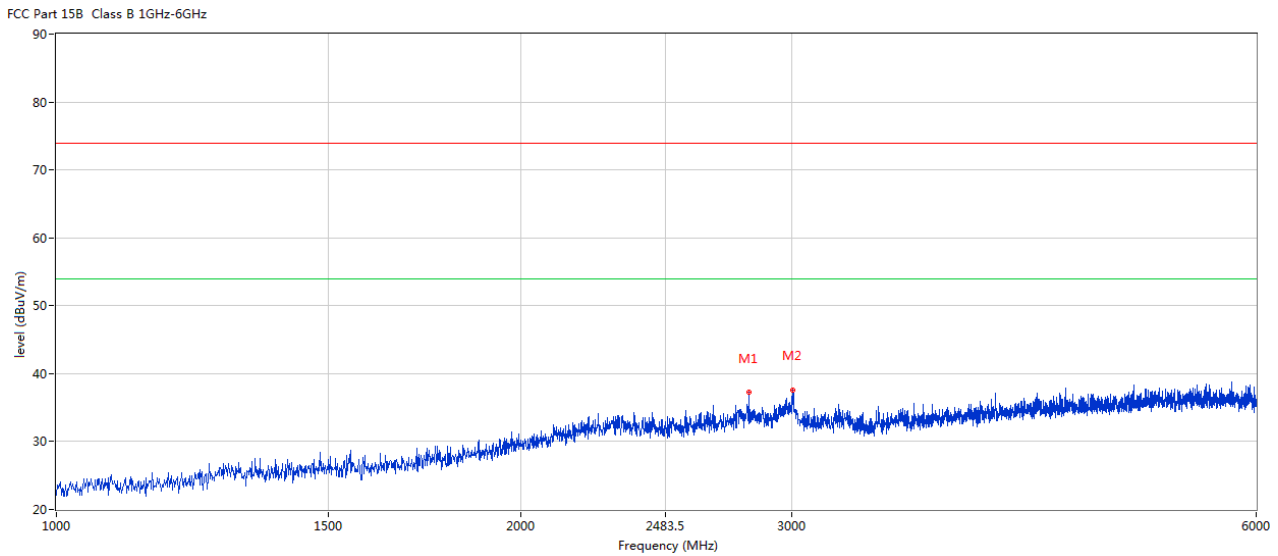
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2812.047	37.21	-2.69	74.0	-36.79	Peak	18.00	100	V	Pass
2	3004.499	37.63	-2.62	74.0	-36.37	Peak	8.00	100	V	Pass

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6.0 FCC Label

FCC ID: RGB-P250003D

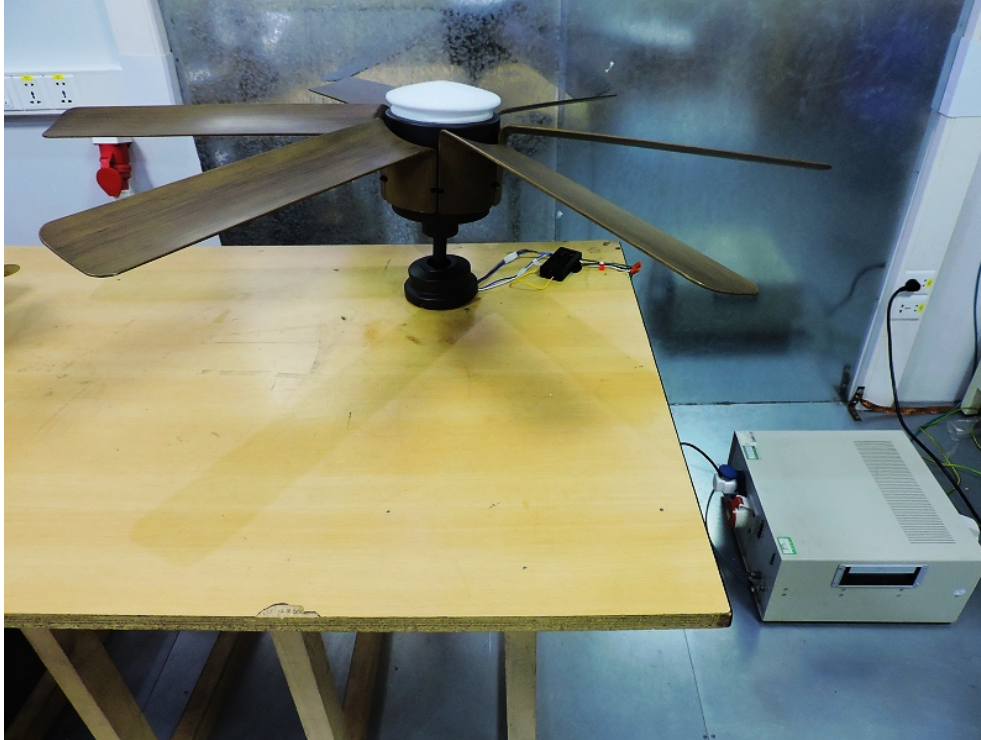
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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7.0 Photo of testing

Conducted Emissions



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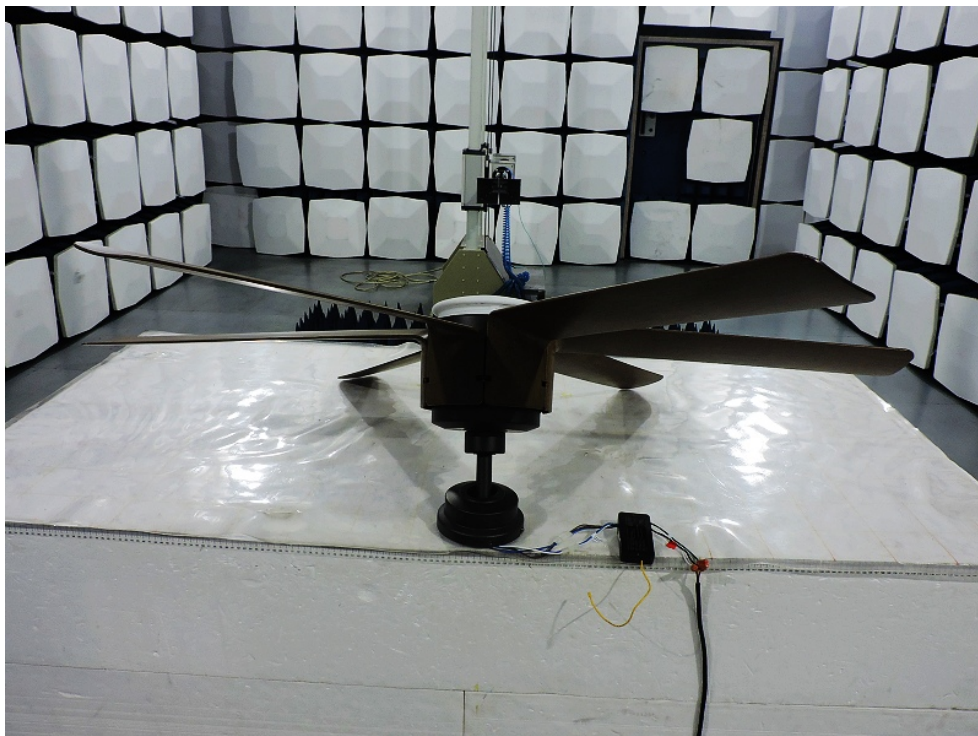
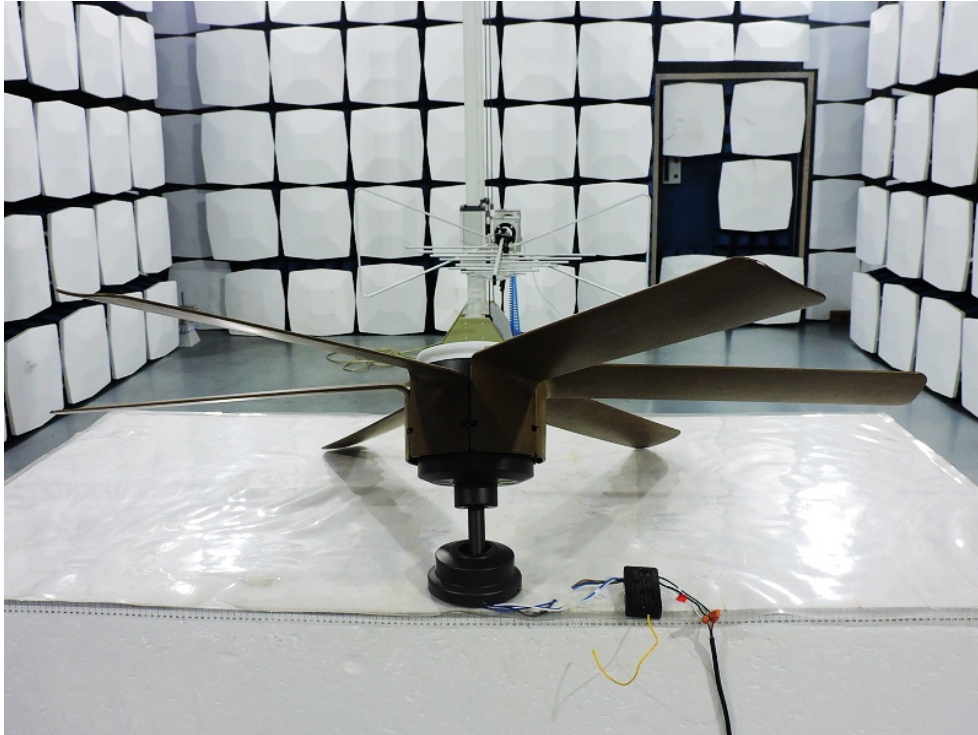
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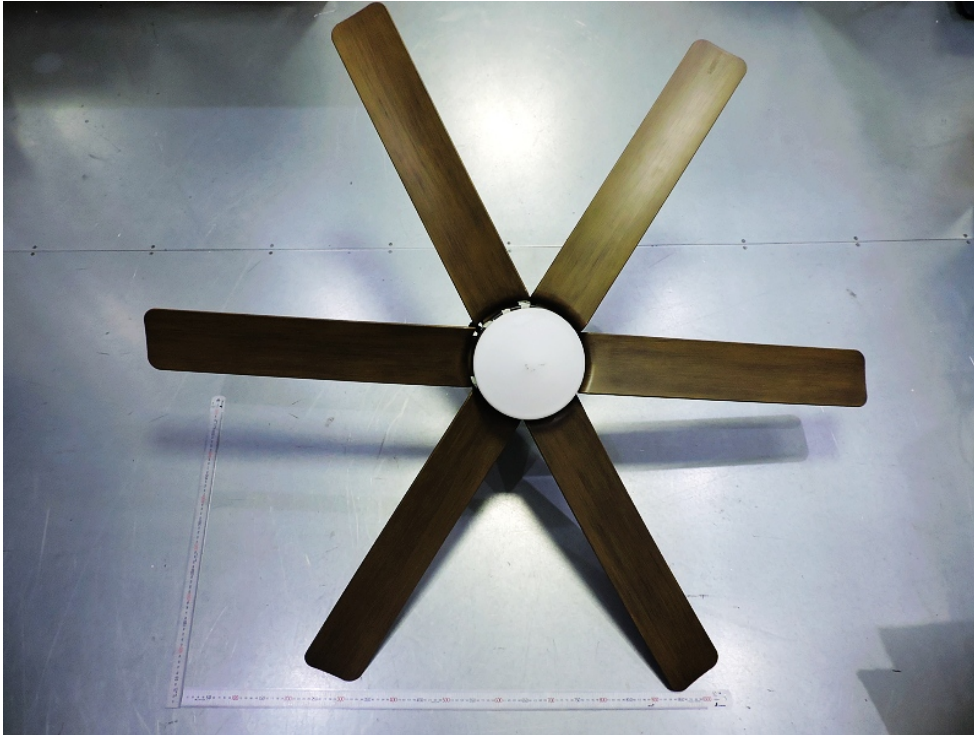


Radiated Emissions



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Photographs – EUT



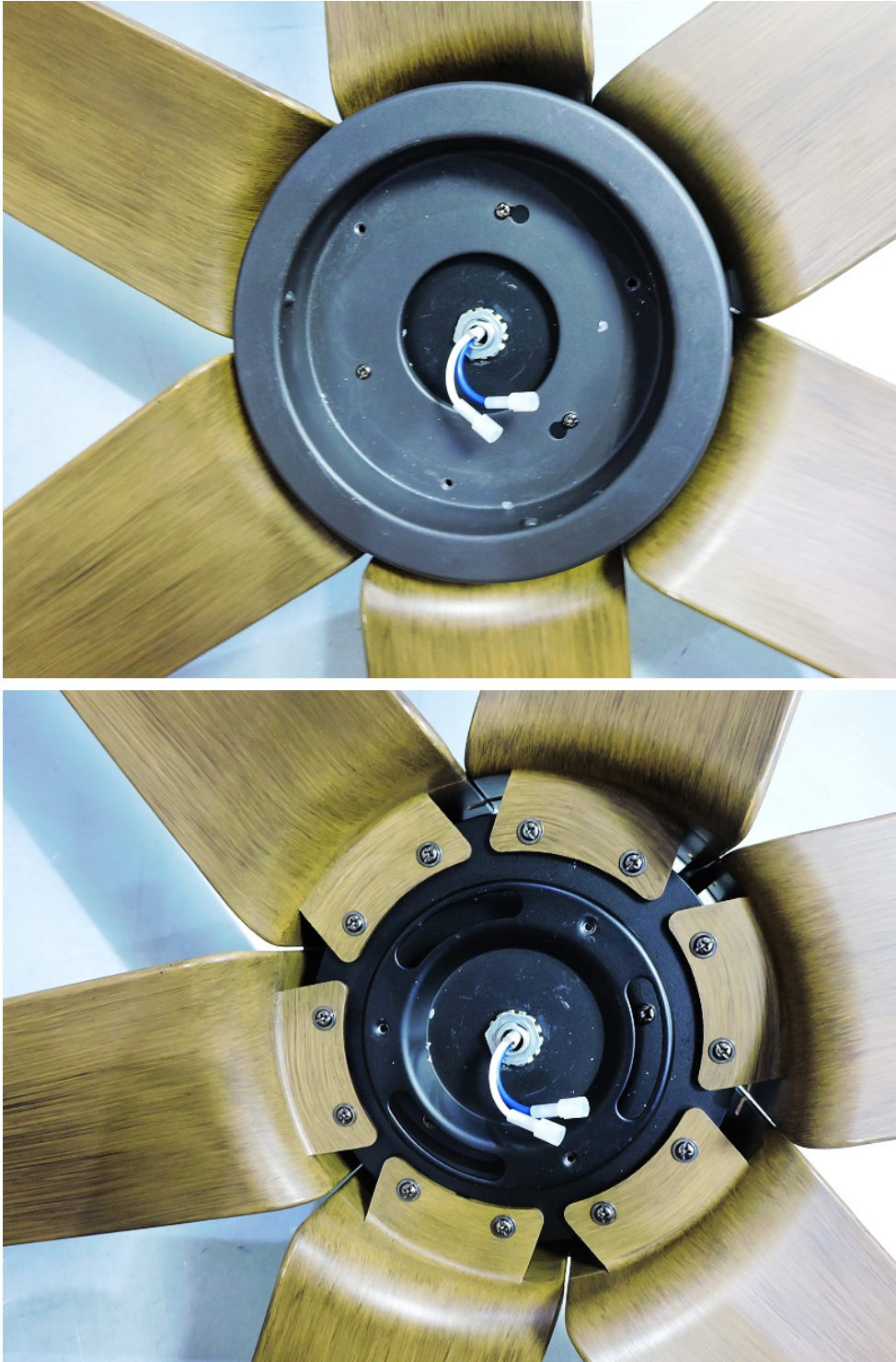
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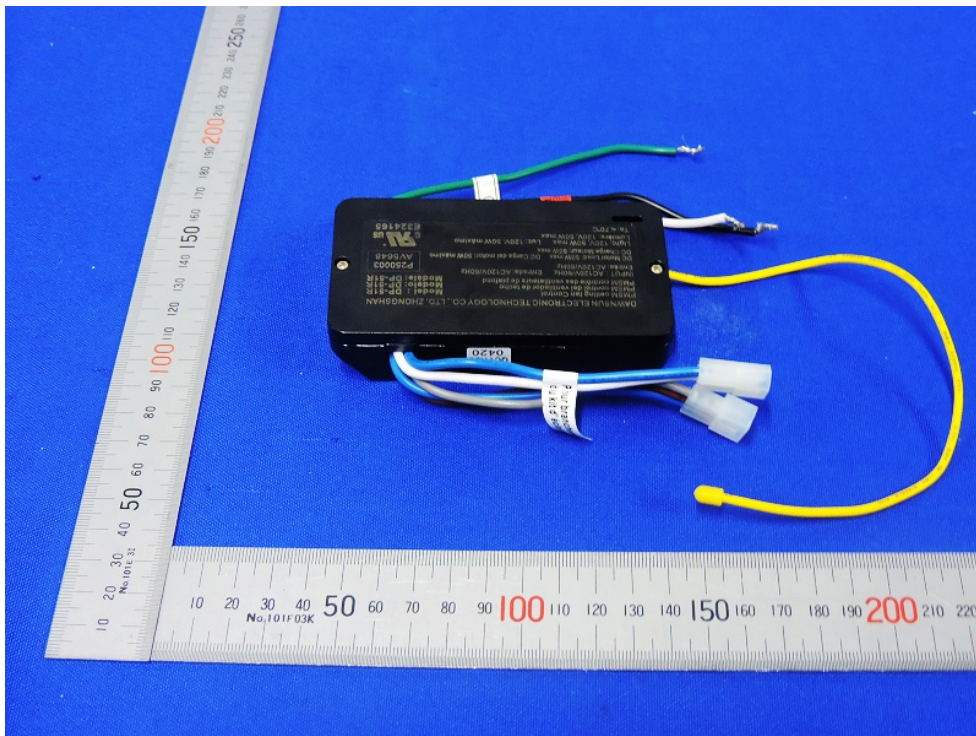
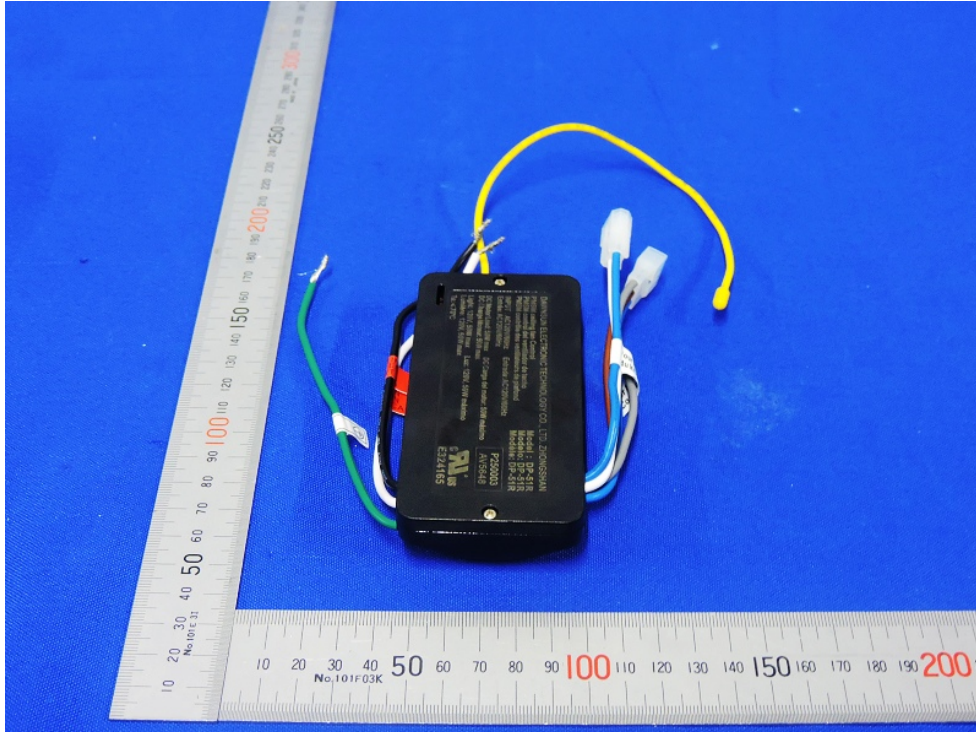
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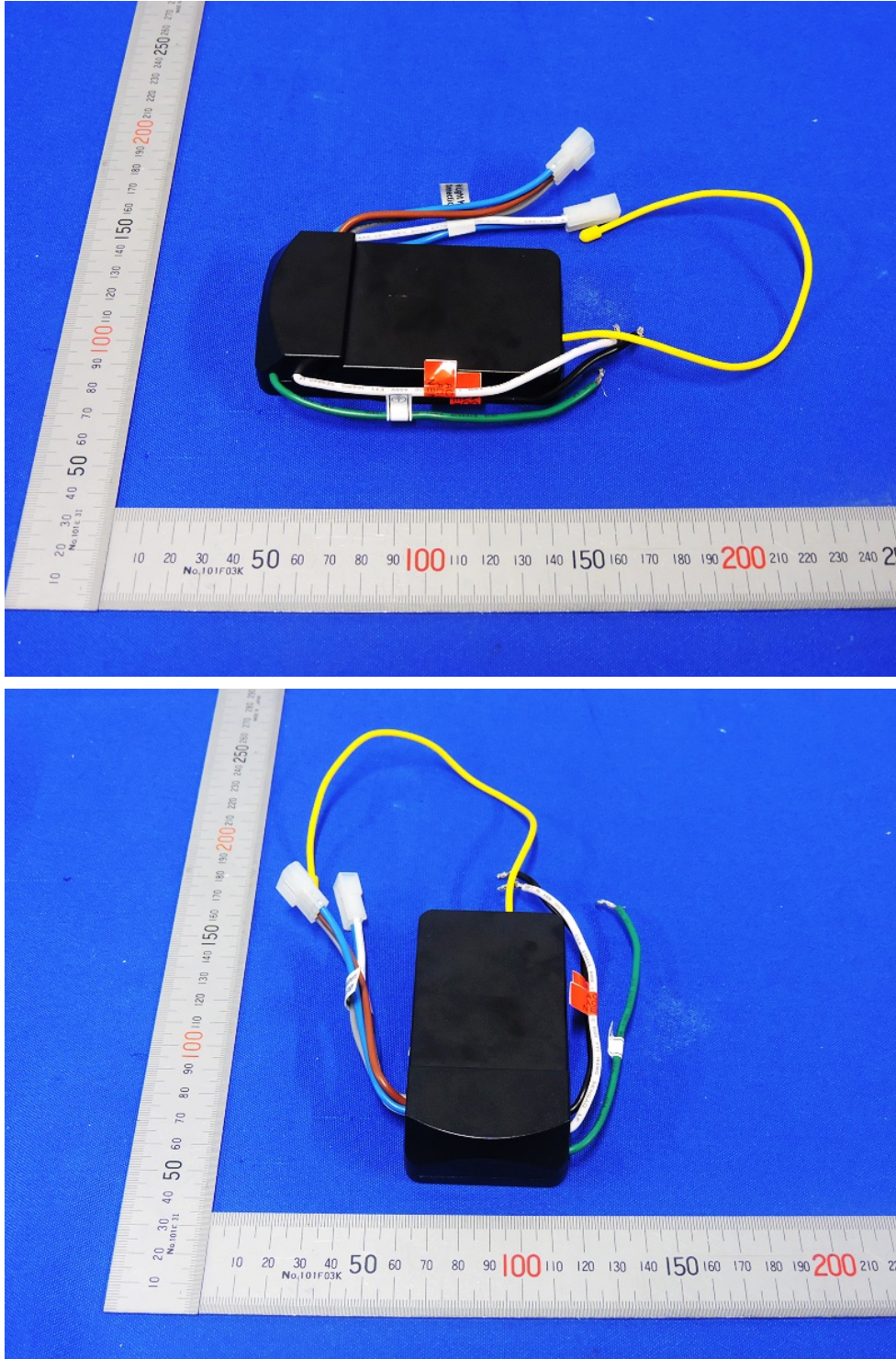


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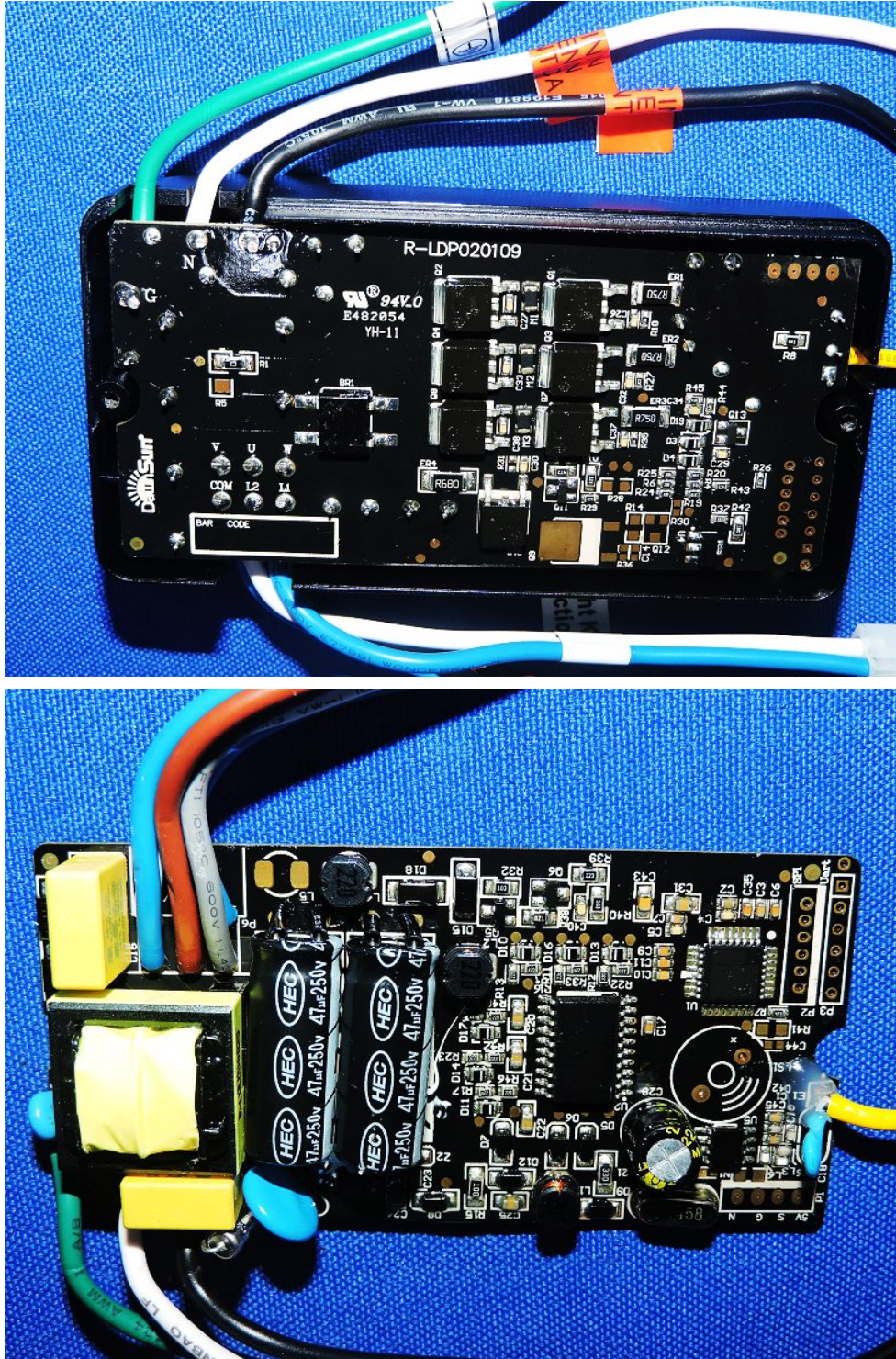
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End of The Report

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