



Report No.:	TW2008107-01E
File Reference No.:	2020-08-19
Applicant:	King of Fans, Inc.
Product:	46in Fawndale Remote control 52021/52020/72021
Brand Name:	Home Decorators Collection
Model No.:	46-FAWNRC
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	
Terry Tang	
Terry Tong	
Manager	
Dated:	August 19, 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

1				
Product:	46in Fawndale Remote control 52021/52020/72021			
Manufacturer:	Chienluen Industries (zhongshan) Ltd			
Address:	Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451			
Brand Name:	Home Decorators Collection			
Model Number:	46-FAWNRC			
Rating: Input: 120V, 60Hz, FAN W/O Light Kit: 0.5A, 60W; FAN W/Light Kit: 0.6A, 79W				
Rx Frequency: 30	4MHz			

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

Date of Receipt of Application: August 11, 2020 Date of Receipt of Test Item: August 11, 2020 Date of Test: August 11, 2020 ~ August 19, 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

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2020.06.23	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	1Year

2.2 Radiated electromagnetic disturbance test

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

2.3 Auxiliary Equipment

Device	Manufacturer	Model	Rating
N/A			

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3.0 Technical Details

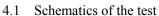
- 3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.
- 3.2 Test Standards FCC Part 15 Subpart B

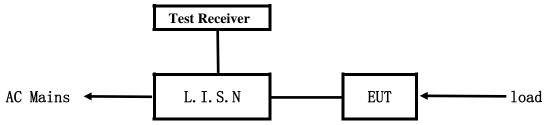
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4.0 Conducted Power line Test



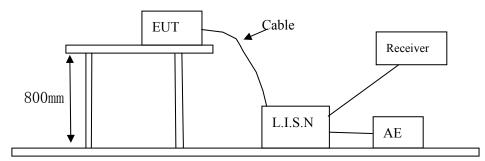


EUT: Equipment Under Test

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

	Class A Li	Class A Limits $dB(\mu V)$		nits dB(µV)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*
$0.50~\sim~5.~0$	73.00	60.00	56.00	46.00
$5.00 \sim 30.00$	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.

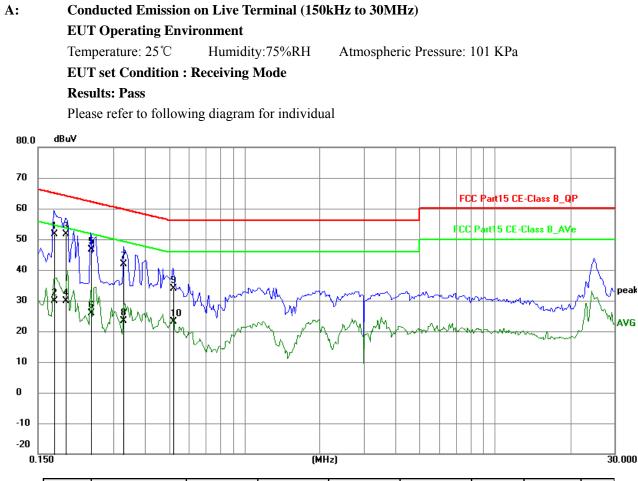
Note: for this report, only receiving mode was tested.

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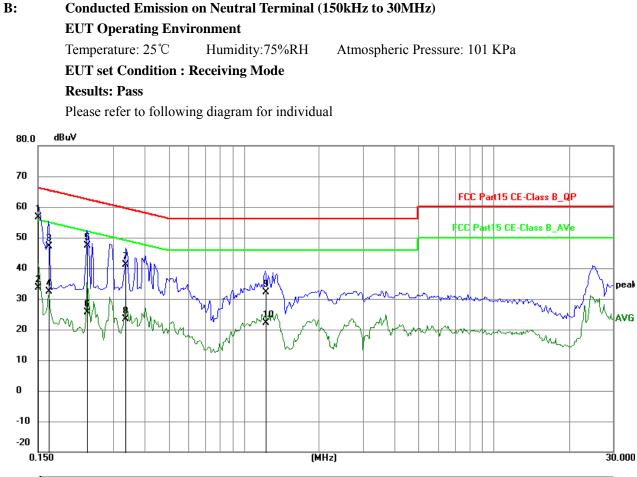
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	41.98	9.77	51.75	64.80	-13.05	QP	Р
2	0.1734	20.07	9.77	29.84	54.80	-24.96	AVG	Ρ
3	0.1929	41.80	9.75	51.55	63.91	-12.36	QP	Ρ
4	0.1929	20.14	9.75	29.89	53.91	-24.02	AVG	Ρ
5	0.2436	36.80	9.75	46.55	61.97	-15.42	QP	Ρ
6	0.2436	16.15	9.75	25.90	51.97	-26.07	AVG	Ρ
7	0.3294	32.05	9.76	41.81	59.47	-17.66	QP	Р
8	0.3294	13.74	9.76	23.50	49.47	-25.97	AVG	Ρ
9	0.5205	24.01	9.77	33.78	56.00	-22.22	QP	Ρ
10	0.5205	13.28	9.77	23.05	46.00	-22.95	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1500	46.83	9.79	<u>56.62</u>	66.00	-9.38	QP	Ρ
2	0.1500	23.80	9.79	33.59	56.00	-22.41	AVG	Ρ
3	0.1655	37.28	9.77	47.05	65.18	-18.13	QP	Р
4	0.1655	22.53	9.77	32.30	55.18	-22.88	AVG	Р
5	0.2358	37.62	9.75	47.37	62.24	-14.87	QP	Р
6	0.2358	15.79	9.75	25.54	52.24	-26.70	AVG	Ρ
7	0.3372	31.42	9.76	41.18	59.27	-18.09	QP	Р
8	0.3372	13.51	9.76	23.27	49.27	-26.00	AVG	Р
9	1.2186	22.24	9.79	32.03	56.00	-23.97	QP	Ρ
10	1.2186	12.44	9.79	22.23	46.00	-23.77	AVG	Ρ

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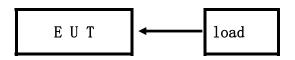
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

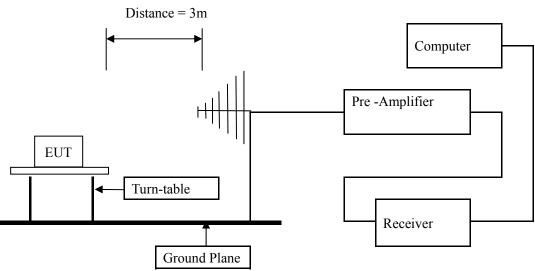


5.2 Test Method and test Procedure:

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



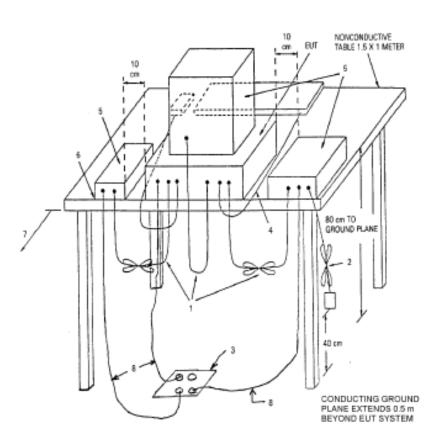
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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB 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 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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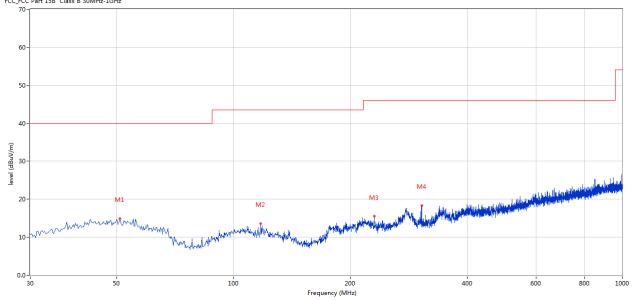
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Radiated Disturbance (30MHz----1000MHz) A:

Project Number:	CASE3	Test Time:	2020-08-15_11.04.31
EUT Name:	46in Fawndale Remote control	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	46-FAWNRC	Work Addition:	Receiving
Temp.(℃):	25	Load:	
Hum.:	65%	Remark:	
ECC ECC Part 15P, Class P 20MHz	1GH 7		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.092	14.84	-11.41	40.0	-25.16	Peak	111.00	100	Horizontal	Pass
2	117.521	13.57	-14.90	43.5	-29.93	Peak	347.00	100	Horizontal	Pass
3	230.012	15.49	-12.67	46.0	-30.51	Peak	315.00	100	Horizontal	Pass
4	304.926	18.34	-10.95	46.0	-27.66	Peak	242.00	100	Horizontal	Pass

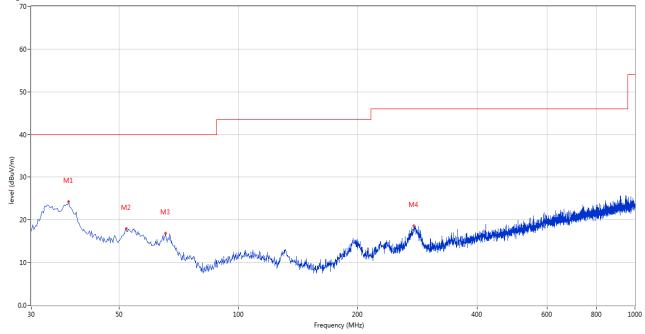
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Radiated Disturbance (30MHz----1000MHz) B:

Project Number:	CASE3	Test Time:	2020-08-15_11.02.28
EUT Name:	46in Fawndale Remote control	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	46-FAWNRC	Work Addition:	Receiving
Temp.(℃):	25	Load:	
Hum.:	65%	Remark:	

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	37.273	24.21	-13.06	40.0	-15.79	Peak	61.00	100	Vertical	Pass
2	52.062	17.94	-11.43	40.0	-22.06	Peak	350.00	100	Vertical	Pass
3	65.396	16.85	-13.71	40.0	-23.15	Peak	330.00	100	Vertical	Pass
4	277.046	18.58	-11.54	46.0	-27.42	Peak	251.00	100	Vertical	Pass

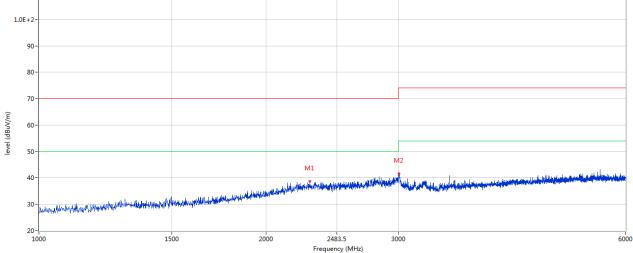
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C: Radiated Disturbance (1000MHz----5000MHz) EUT Operating Environment Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa EUT set Condition: Receiving Mode Equipment Level: Class B Results: Pass Please refer to following diagram for individual EN 55032 Class B 16Hz-6GHz 11E+2-



No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	2288.428	38.76	-3.20	70.0	-31.24	Peak	187.00	100	н	Pass
2	3004.499	41.71	-2.62	74.0	-32.29	Peak	27.00	100	Н	Pass

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6000

D: Radiated Disturbance (1000MHz----5000MHz) **EUT Operating Environment** Humidity: 75%RH Atmospheric Pressure: 101 kPa Temperature:25°C **EUT set Condition: Receiving Mode Equipment Level: Class B Results: Pass** Please refer to following diagram for individual EN 55032 Class B 1GHz-6GHz 1.1E+2 1.0E+2 90· 80 70 level (dBuV/m) <u>60</u>-50-M1 M2 40-Mundare Multimediated 30-20-1000 1500 2000 2483.5 3000 Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2450.887	41.56	-3.57	70.0	-28.44	Peak	102.00	100	V	Pass
2	3004.499	41.09	-2.62	74.0	-32.91	Peak	102.00	100	V	Pass

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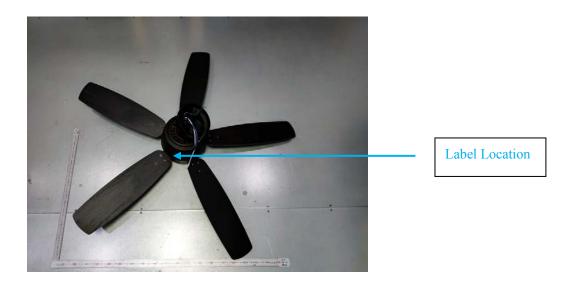


6.0 FCC Label

FCC ID: RGB-46FAWNRCD

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

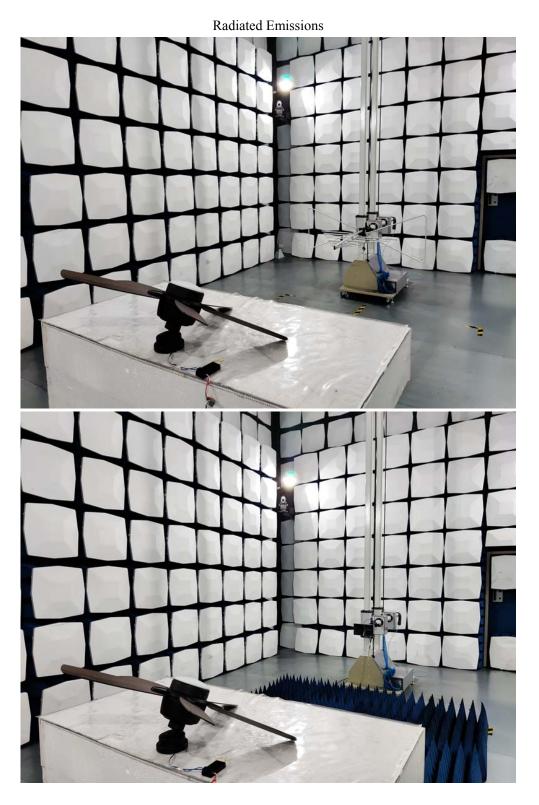


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Photographs - EUT



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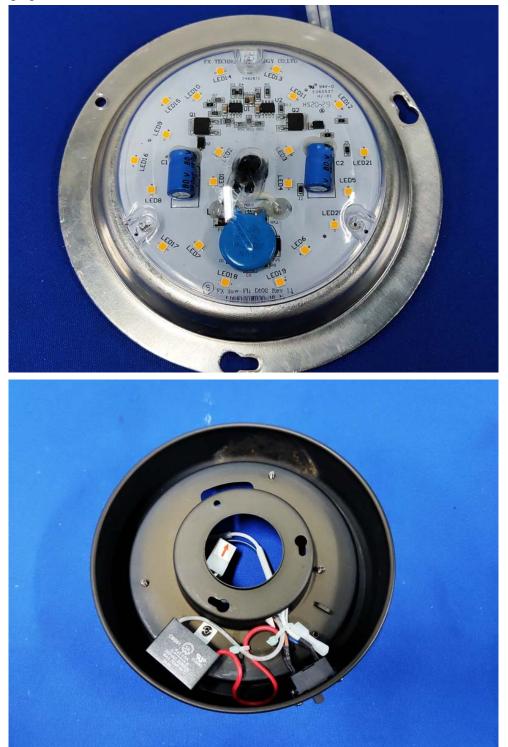
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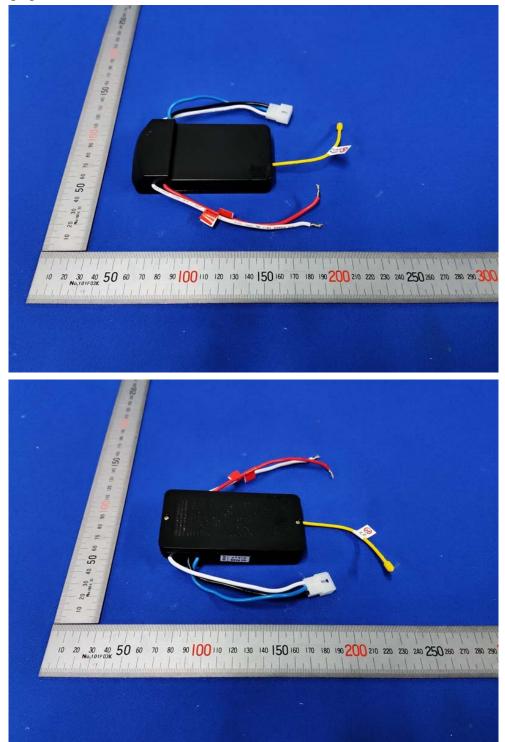


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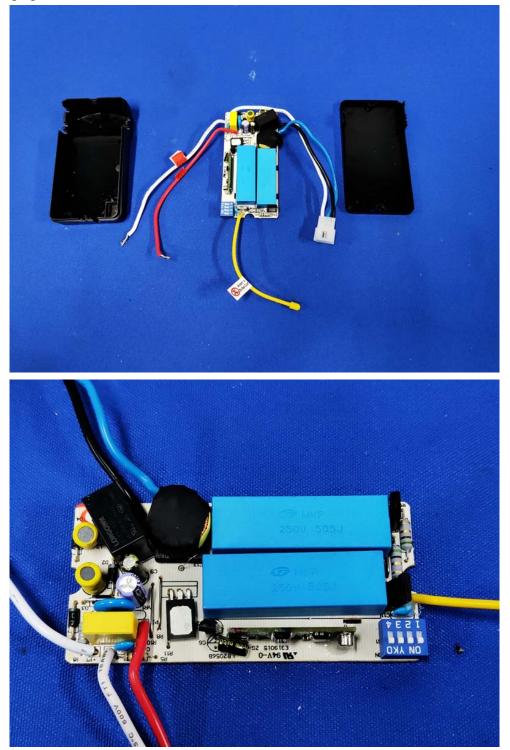
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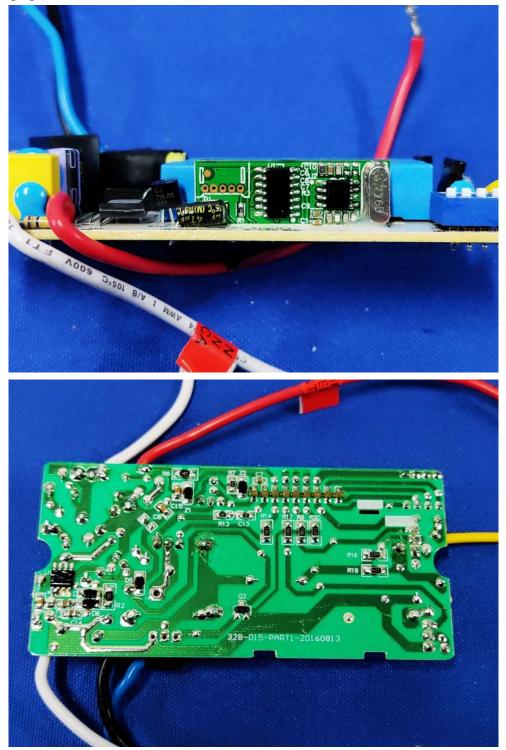
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End of The Report

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