

TECHNICAL REPORT



Report No.: FCC1906192

File reference No.: 2019-06-26

Applicant: King of Fans, Inc.

Product: 60" Garret

Model No: 60-GART

Trademark: Home Decorators Collection

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

*Jack Chung*

---

Jack Chung

Manager

Dated: June 26, 2019

**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, E-Mail: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.

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## Test Report Conclusion

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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  
Site on File with the Federal Communications Commission – United States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 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: 60" Garret  
Manufacturer: Chienluen Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area,Nanlang Town, Zhongshan,Guangdong China  
528451  
Trademark: Home Decorators Collection  
Model Number: 60-GART  
Rating: Input 120V, 60Hz, w/o light 0.65A, w/o light 78W; Output: w/light 0.83A, w/light 98W  
Rx Frequency: 304MHz

### 1.4 Submitted Sample: 1 Samples

### 1.5 Test Duration: 2019-06-19 to 2019-06-21

### 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

A handwritten signature in black ink that reads "Terry Tang".

Print Name: Terry Tang

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## 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	2018.06.21/ 2019.06.21	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2018.06.21/ 2019.06.21	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2018.06.21/ 2019.06.21	1 Year
LISN	ESH3-Z5	100294	RS	2018.06.21/ 2019.06.21	1 Year
LISN	ESH3-Z5	100253	RS	2018.06.21/ 2019.06.21	1 Year
LISN	NNB42	00012	SCHAFFNER	2019.01.08	1 Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2018.06.21/ 2019.06.21	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2018.06.21/ 2019.06.21	1 Year
Amplifier	8447D	2727A05017	HP	2018.06.21/ 2019.06.21	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.06.21/ 2019.06.21	1 Year

### 2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
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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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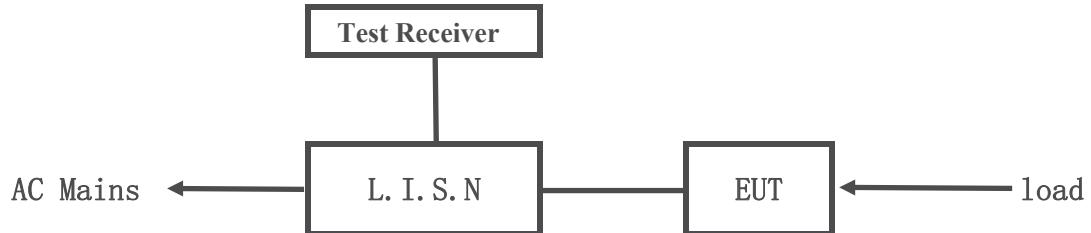
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



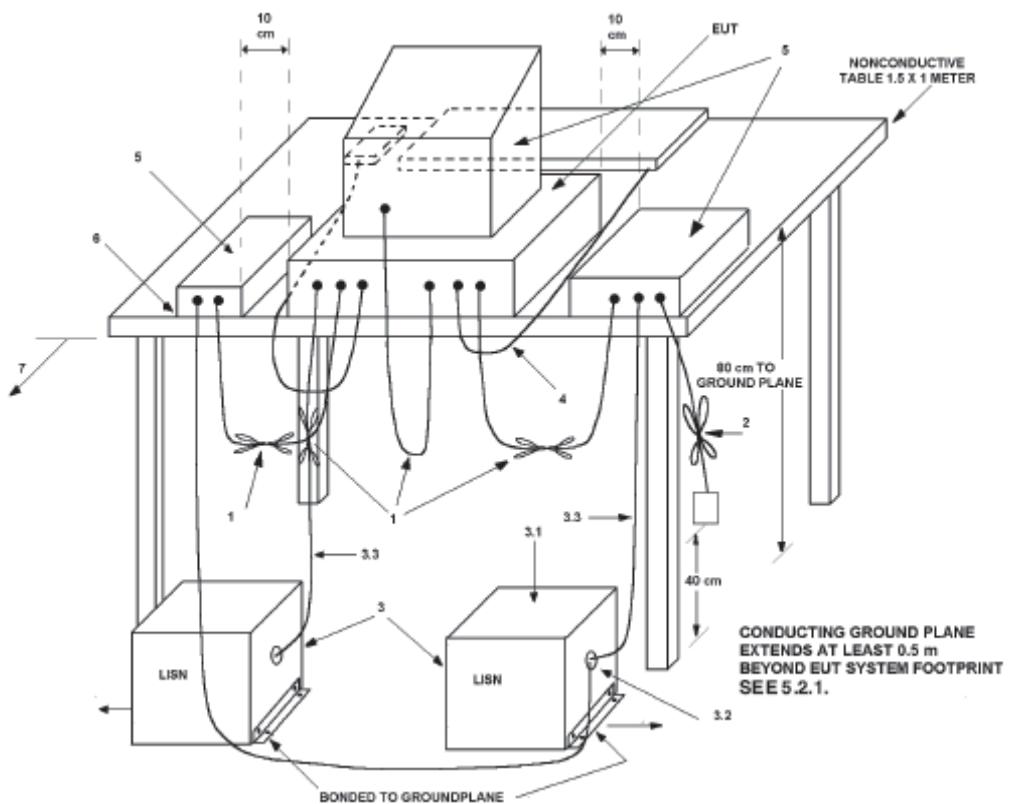
EUT: Equipment Under Test

##### 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.

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

Block diagram of Test setup



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#### 4.3 Power line conducted Emission Limit

Frequency(MHz)	Class B Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	56.00	46.00
5.00 ~ 30.00	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.

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

**EUT Operating Environment**

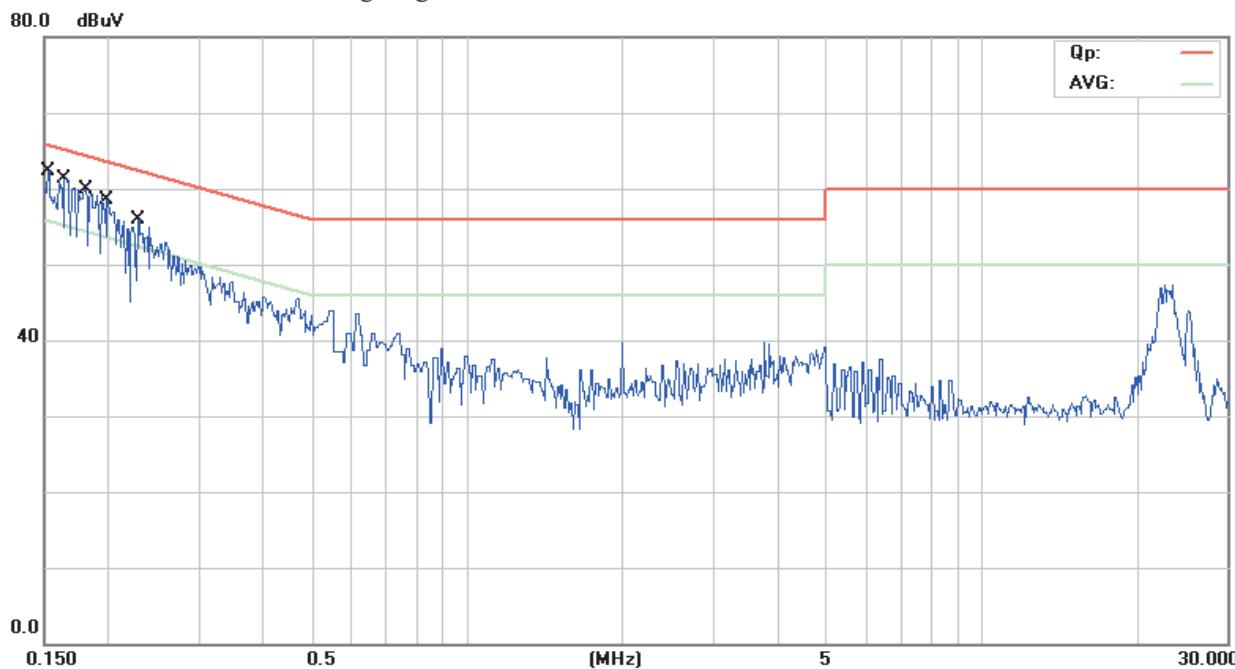
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1522	44.90	9.78	54.68	65.88	-11.20	QP	
2		0.1522	11.90	9.78	21.68	55.88	-34.20	AVG	
3		0.1638	43.90	9.78	53.68	65.27	-11.59	QP	
4		0.1638	14.10	9.78	23.88	55.27	-31.39	AVG	
5	*	0.1800	43.70	9.76	53.46	64.49	-11.03	QP	
6		0.1800	14.80	9.76	24.56	54.49	-29.93	AVG	
7		0.1981	40.30	9.75	50.05	63.69	-13.64	QP	
8		0.1981	12.70	9.75	22.45	53.69	-31.24	AVG	
9		0.2278	37.90	9.75	47.65	62.53	-14.88	QP	
10		0.2278	12.90	9.75	22.65	52.53	-29.88	AVG	

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

**EUT Operating Environment**

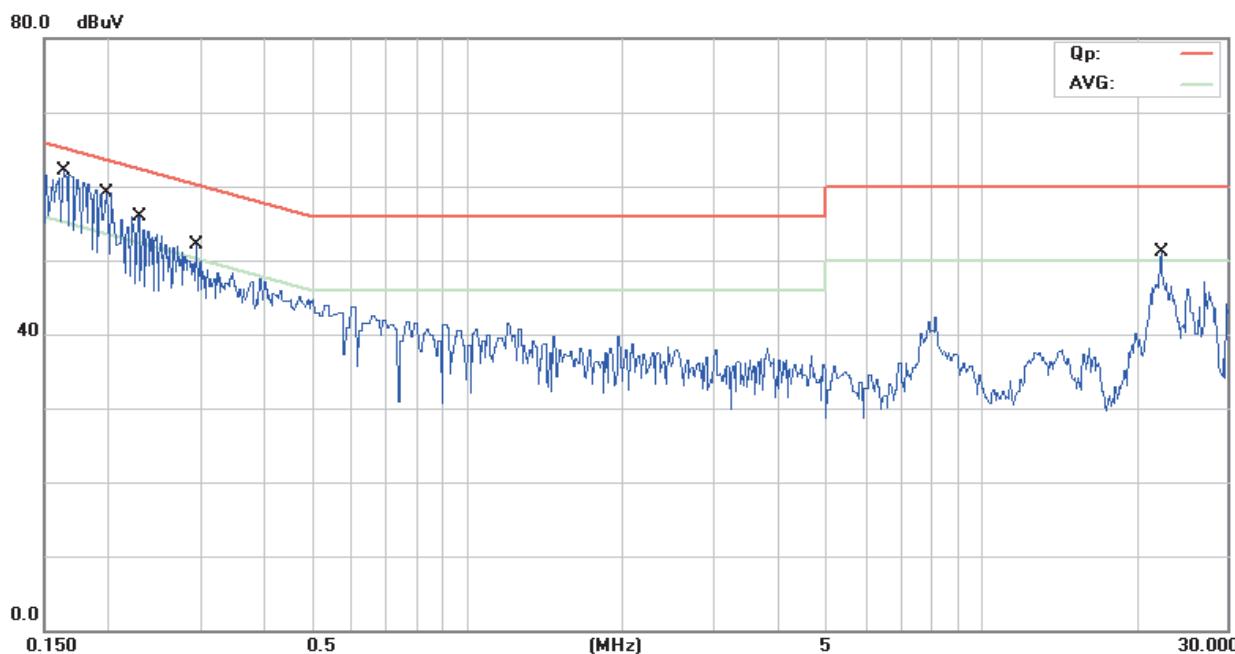
Temperature: 26°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1631	44.00	9.78	53.78	65.30	-11.52	QP	
2		0.1631	12.80	9.78	22.58	55.30	-32.72	AVG	
3		0.1982	40.40	9.75	50.15	63.69	-13.54	QP	
4		0.1982	12.40	9.75	22.15	53.69	-31.54	AVG	
5		0.2303	38.00	9.75	47.75	62.44	-14.69	QP	
6		0.2303	11.10	9.75	20.85	52.44	-31.59	AVG	
7		0.2952	33.90	9.76	43.66	60.38	-16.72	QP	
8		0.2952	26.50	9.76	36.26	50.38	-14.12	AVG	
9		22.2440	29.20	10.82	40.02	60.00	-19.98	QP	
10		22.2440	15.50	10.82	26.32	50.00	-23.68	AVG	

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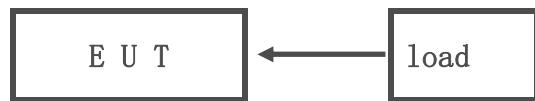
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

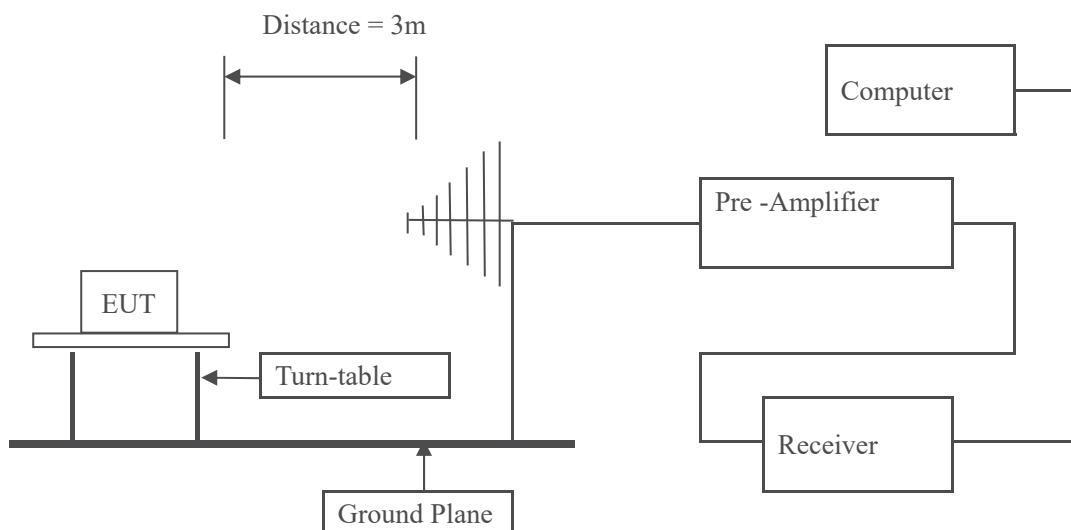


### 5.2 Test Method and test Procedure:

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

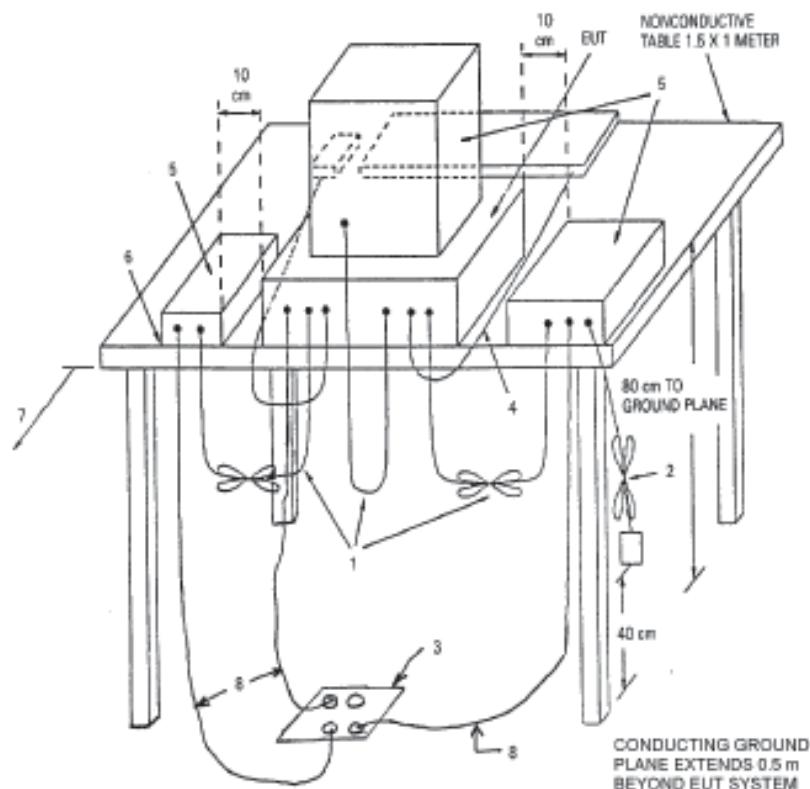
#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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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**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)**

**EUT set Condition:** Receiving Mode

**Equipment Level:** Class B

**Results:** Pass

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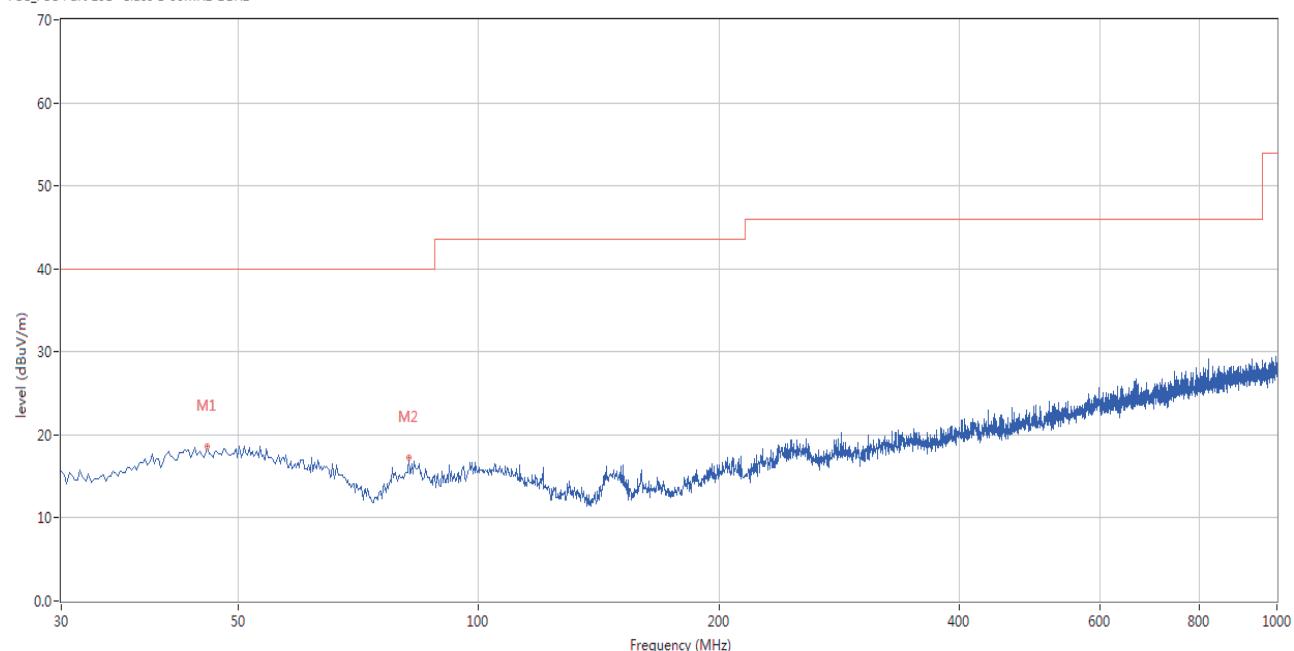
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Test Figure:

H

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	45.759	18.61	-11.40	40.0	-21.39	Peak	73.00	200	H	Pass
2	81.882	17.25	-17.20	40.0	-22.75	Peak	38.00	200	H	Pass

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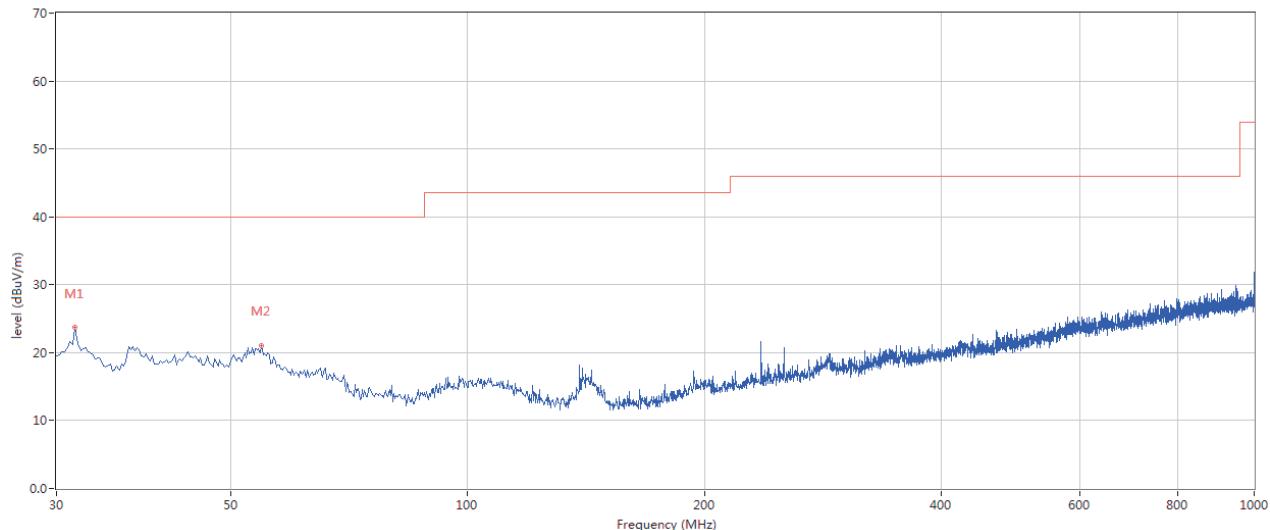
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Test Figure:

V

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	31.455	21.22	-14.57	40.0	-18.78	Peak	36.00	100	V	Pass
2	54.729	21.08	-11.72	40.0	-18.92	Peak	87.00	100	V	Pass

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### Radiated Disturbance (1000MHz----6000MHz)

#### EUT Operating Environment

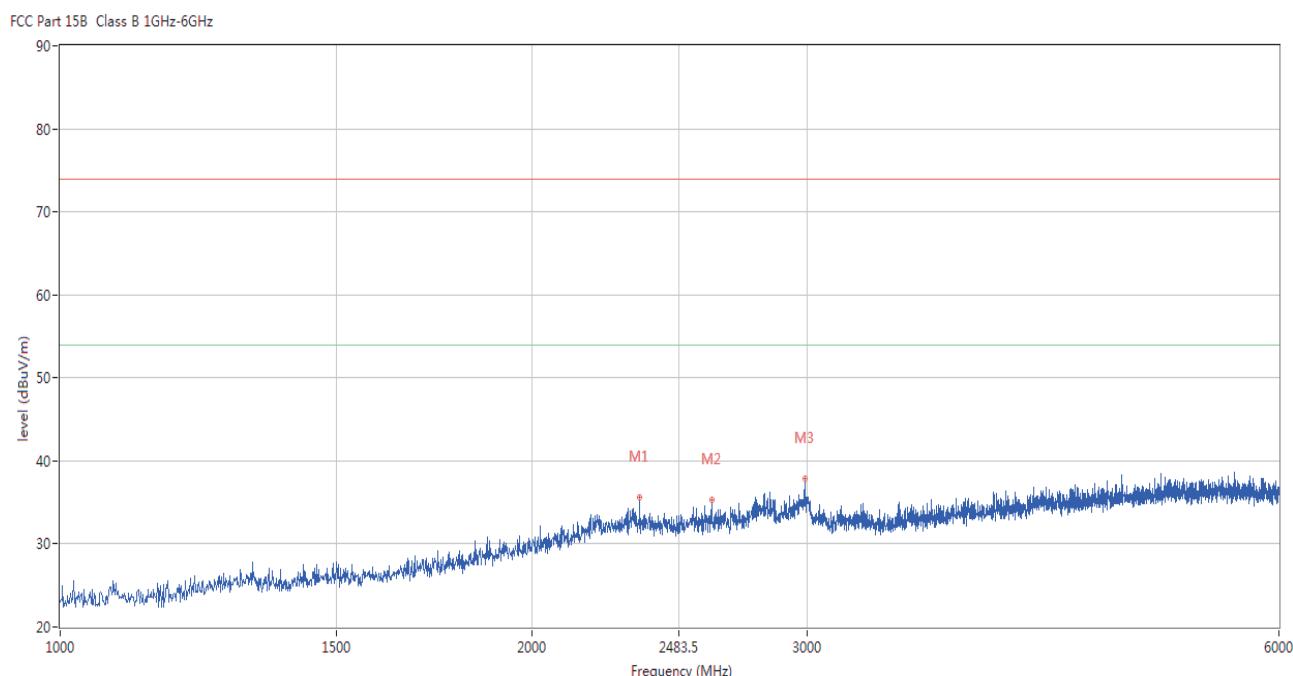
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

#### 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	2343.414	35.57	-3.35	74.0	-38.43	Peak	360.00	100	H	Pass
2	2605.849	35.33	-3.30	74.0	-38.67	Peak	266.00	100	H	Pass
3	2989.503	37.90	-2.64	74.0	-36.10	Peak	284.00	100	H	Pass

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### Radiated Disturbance (1000MHz----6000MHz)

#### EUT Operating Environment

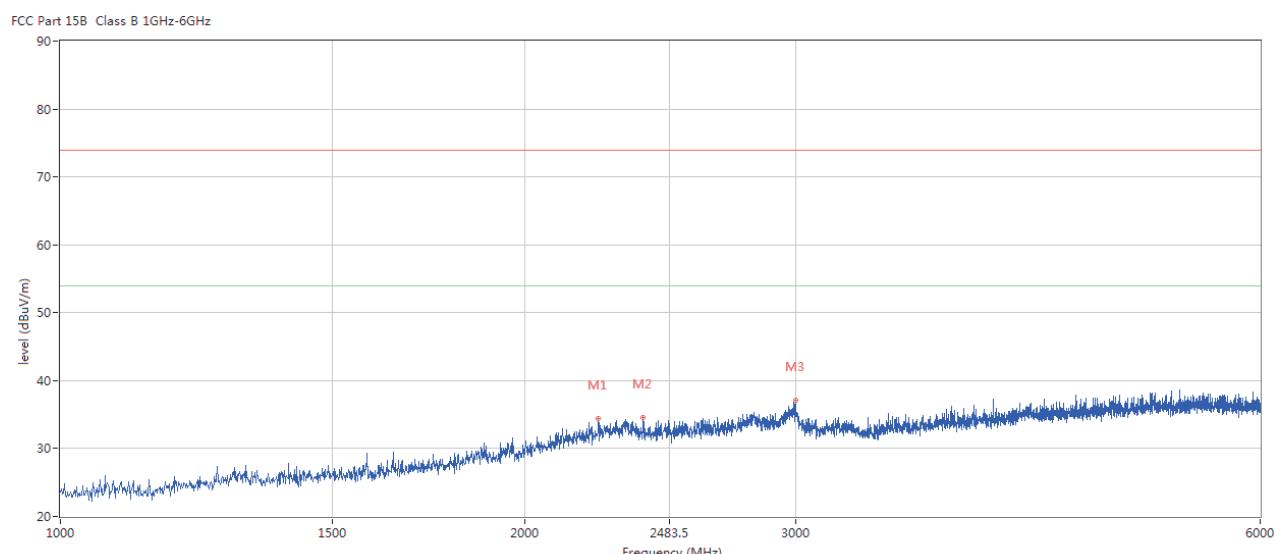
Temperature:25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

#### 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	2233.442	34.40	-3.23	74.0	-39.60	Peak	72.00	100	V	Pass
2	2387.153	34.54	-3.52	74.0	-39.46	Peak	190.00	100	V	Pass
3	2997.001	37.05	-2.64	74.0	-36.95	Peak	109.00	100	V	Pass

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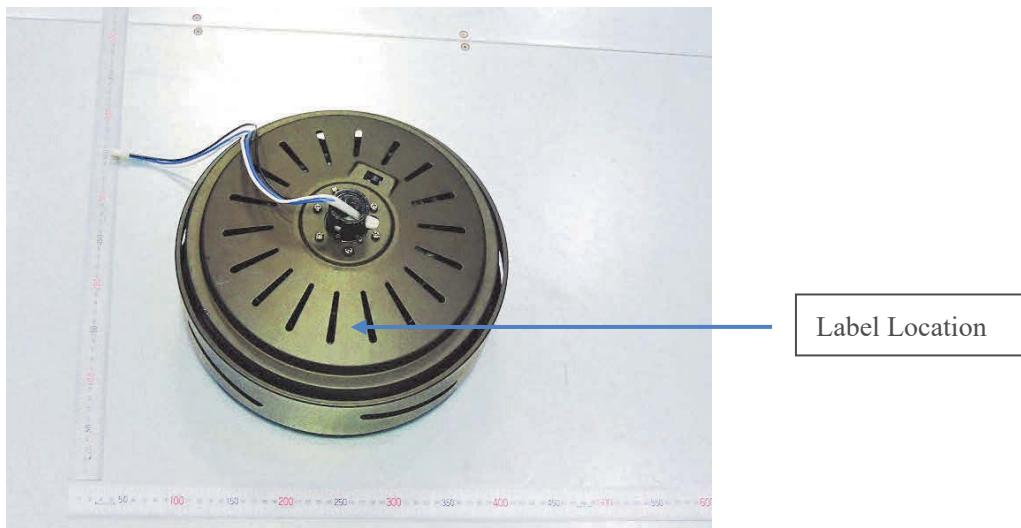


## 6.0 FCC Label

**FCC ID: RGB-60GARTD**

**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

7.1 Conducted test View--



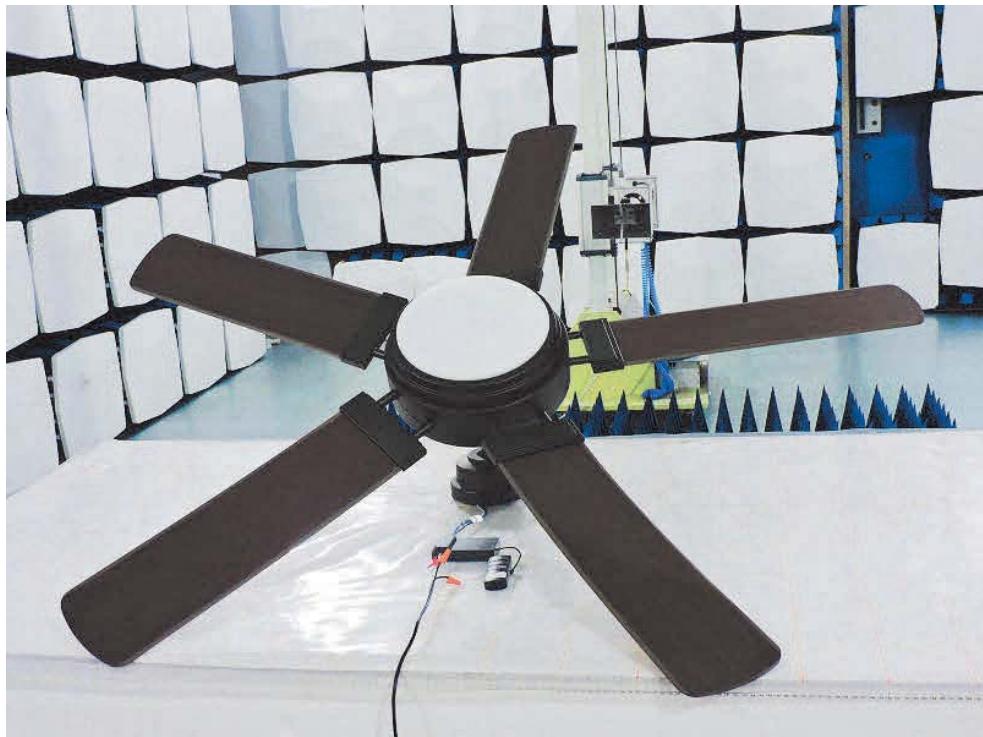
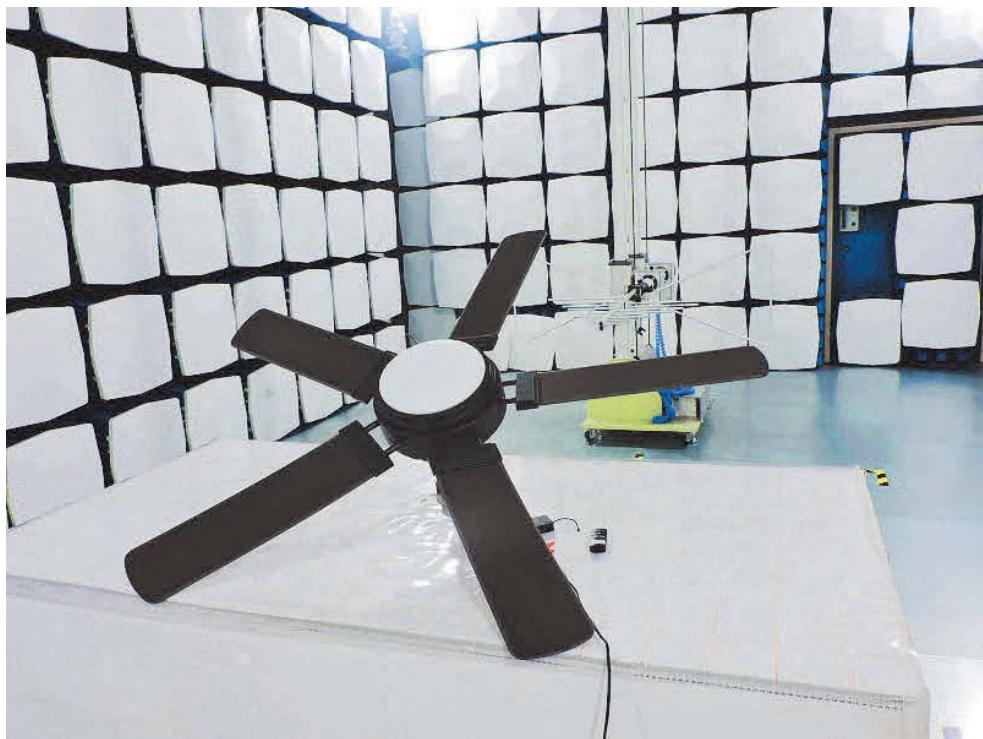
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7.2 Radiated emission test view--



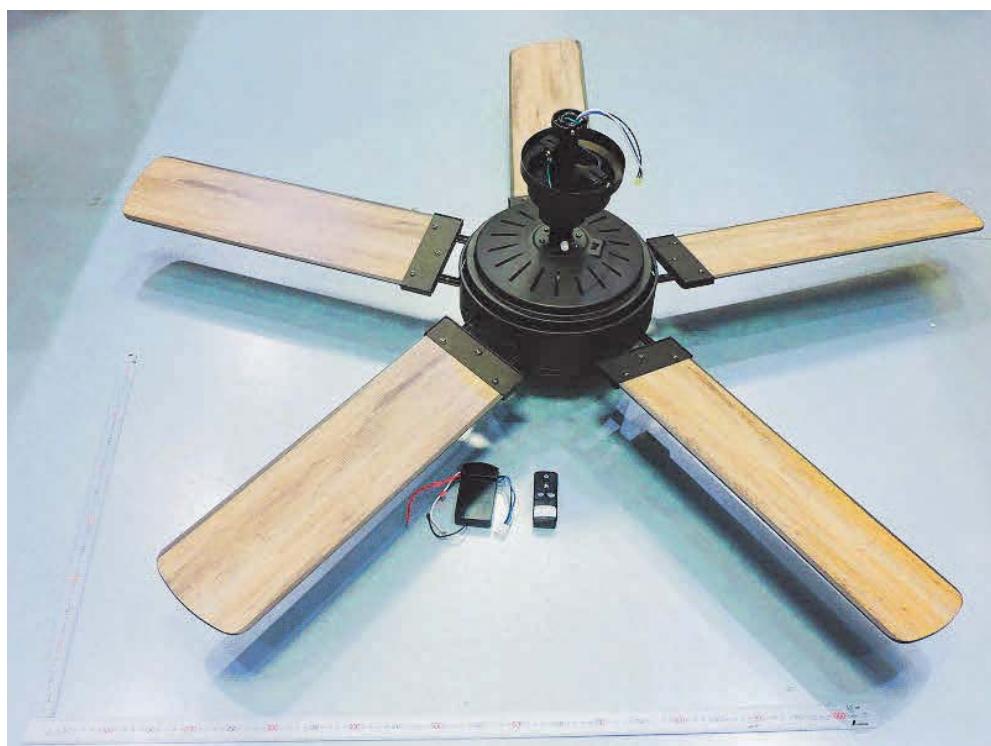
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Photo for the EUT



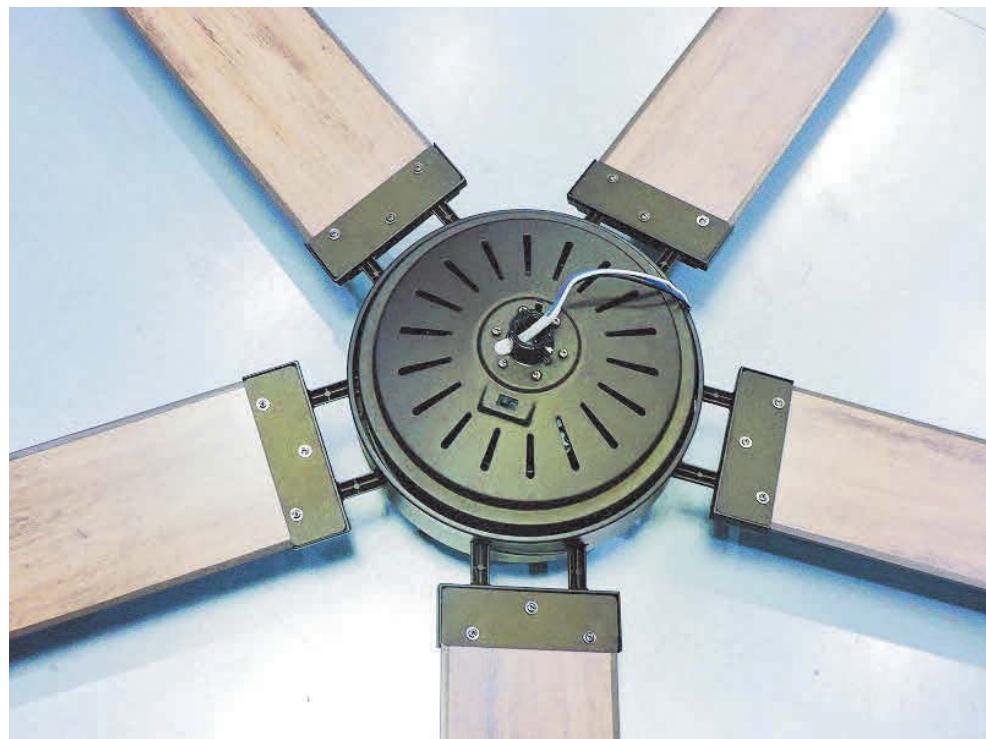
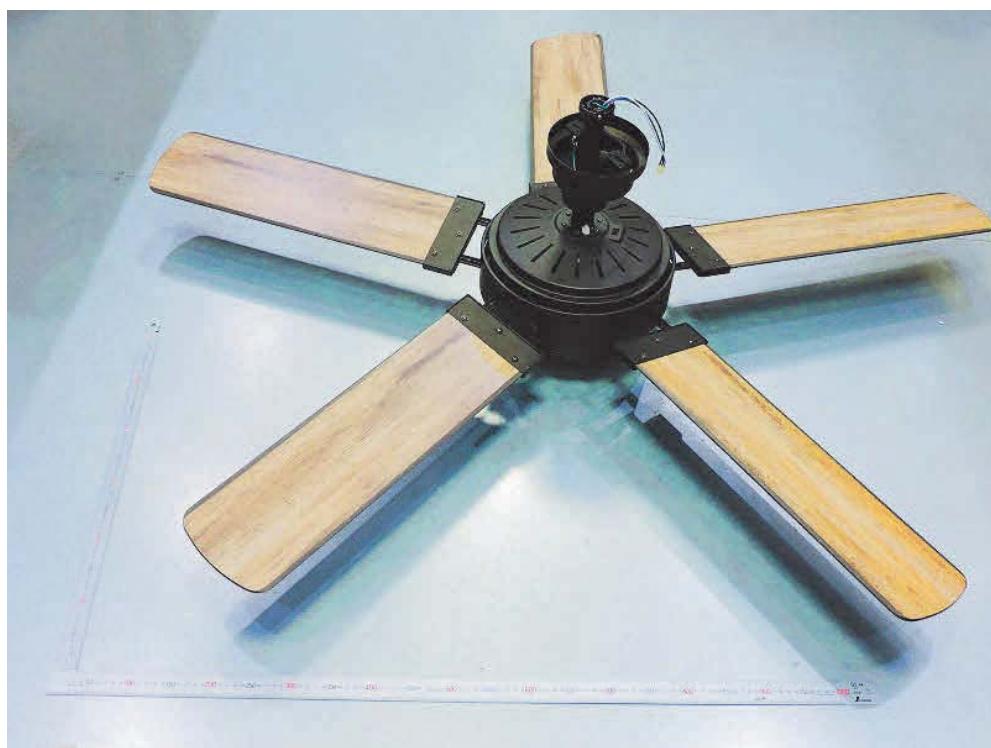
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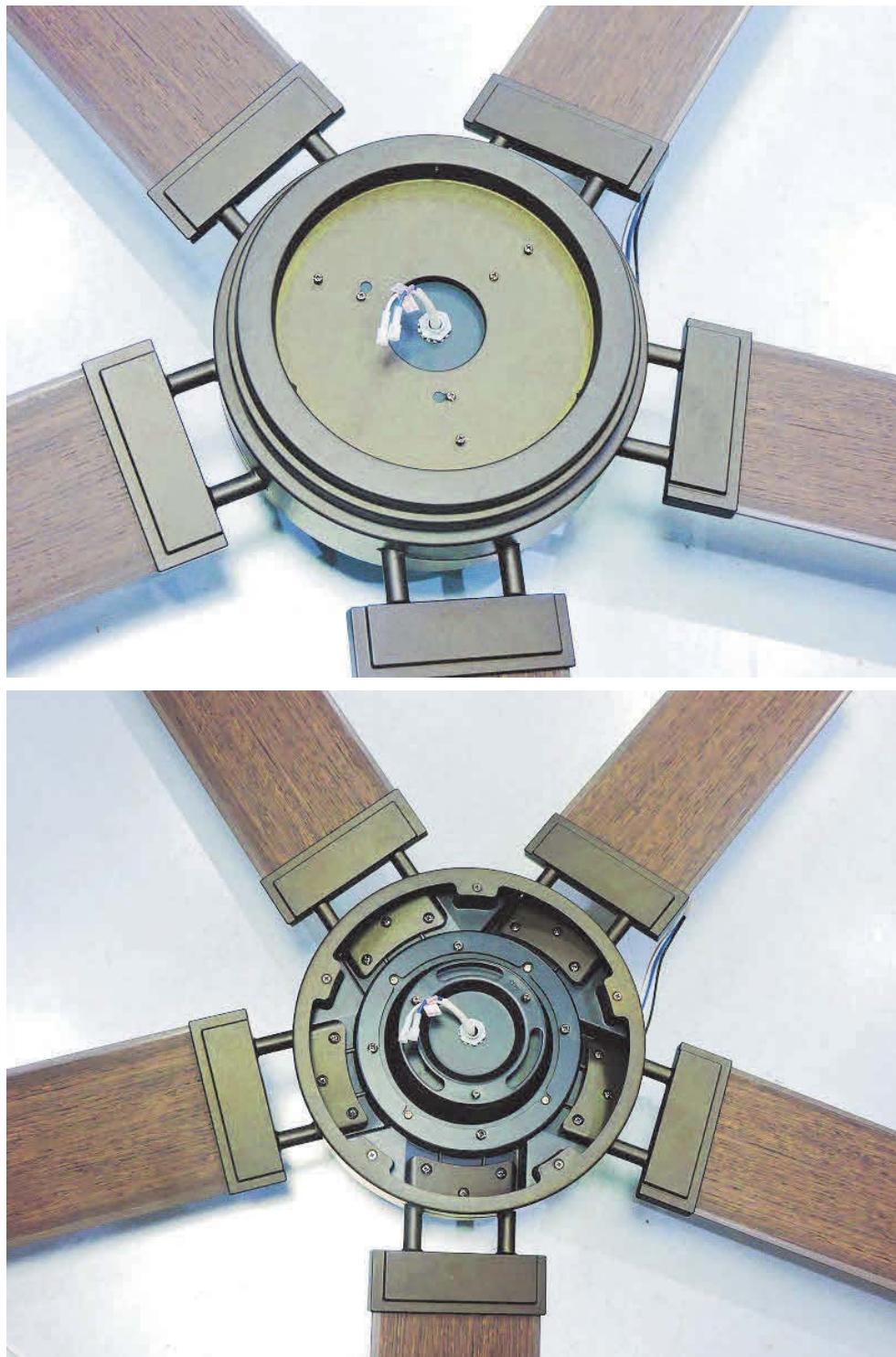
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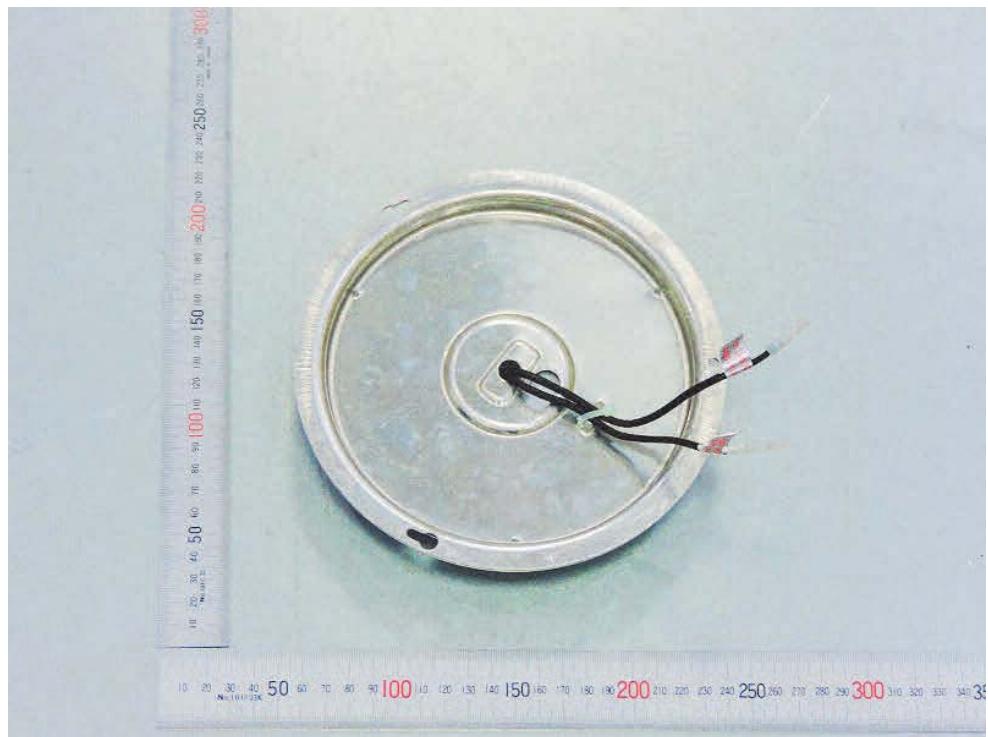
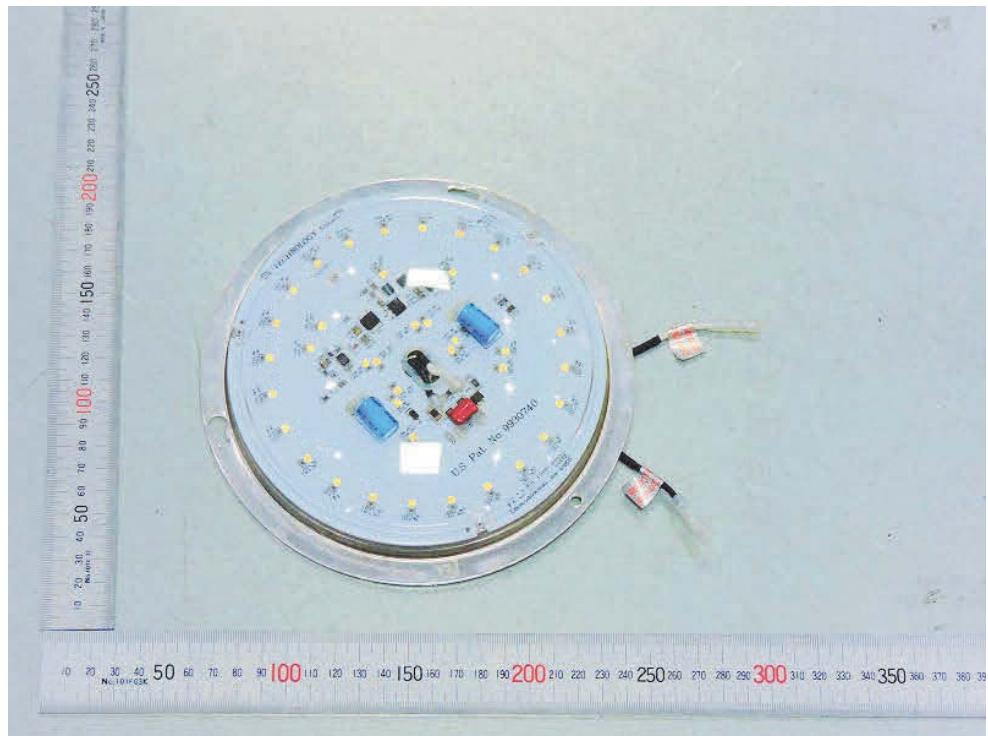
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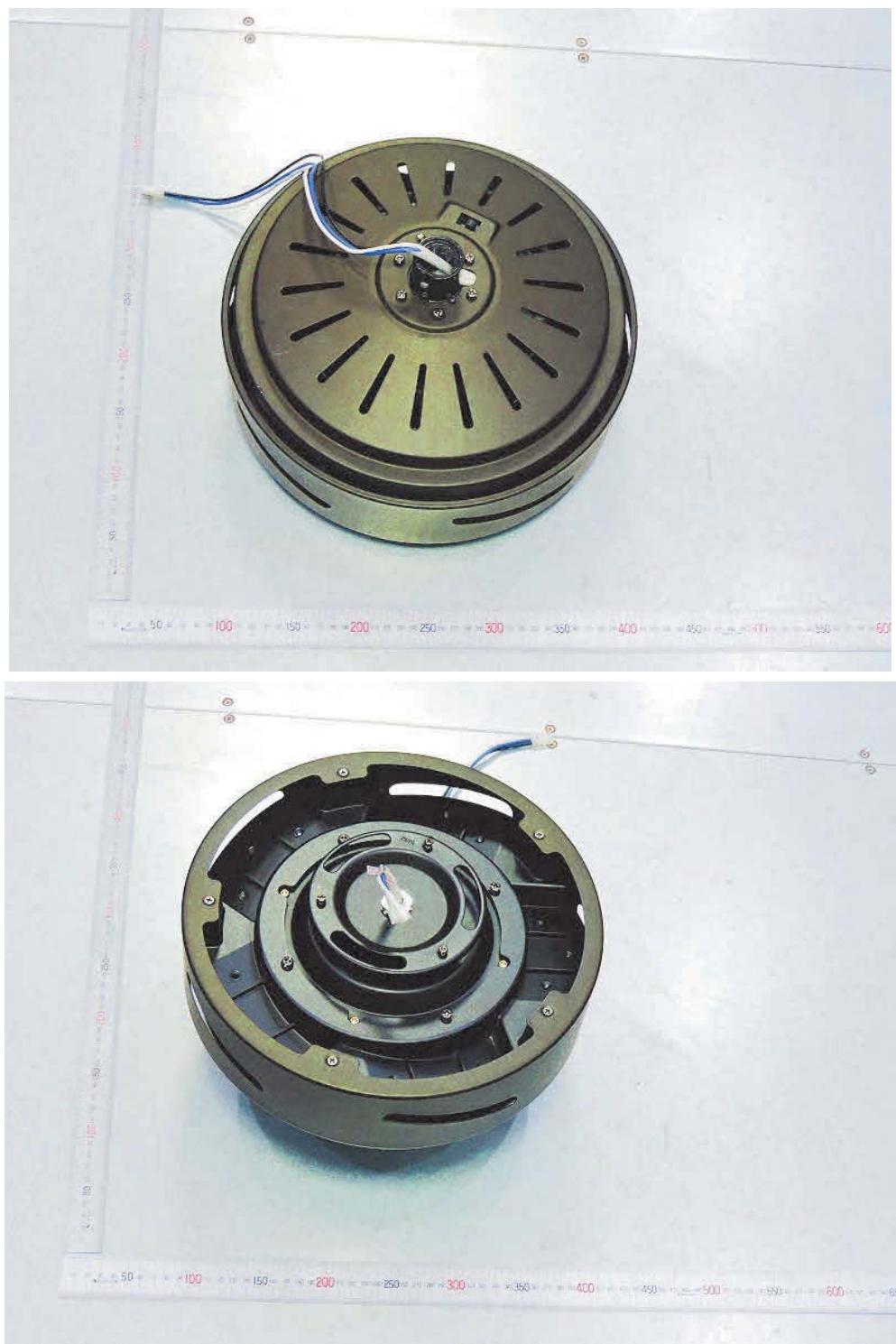
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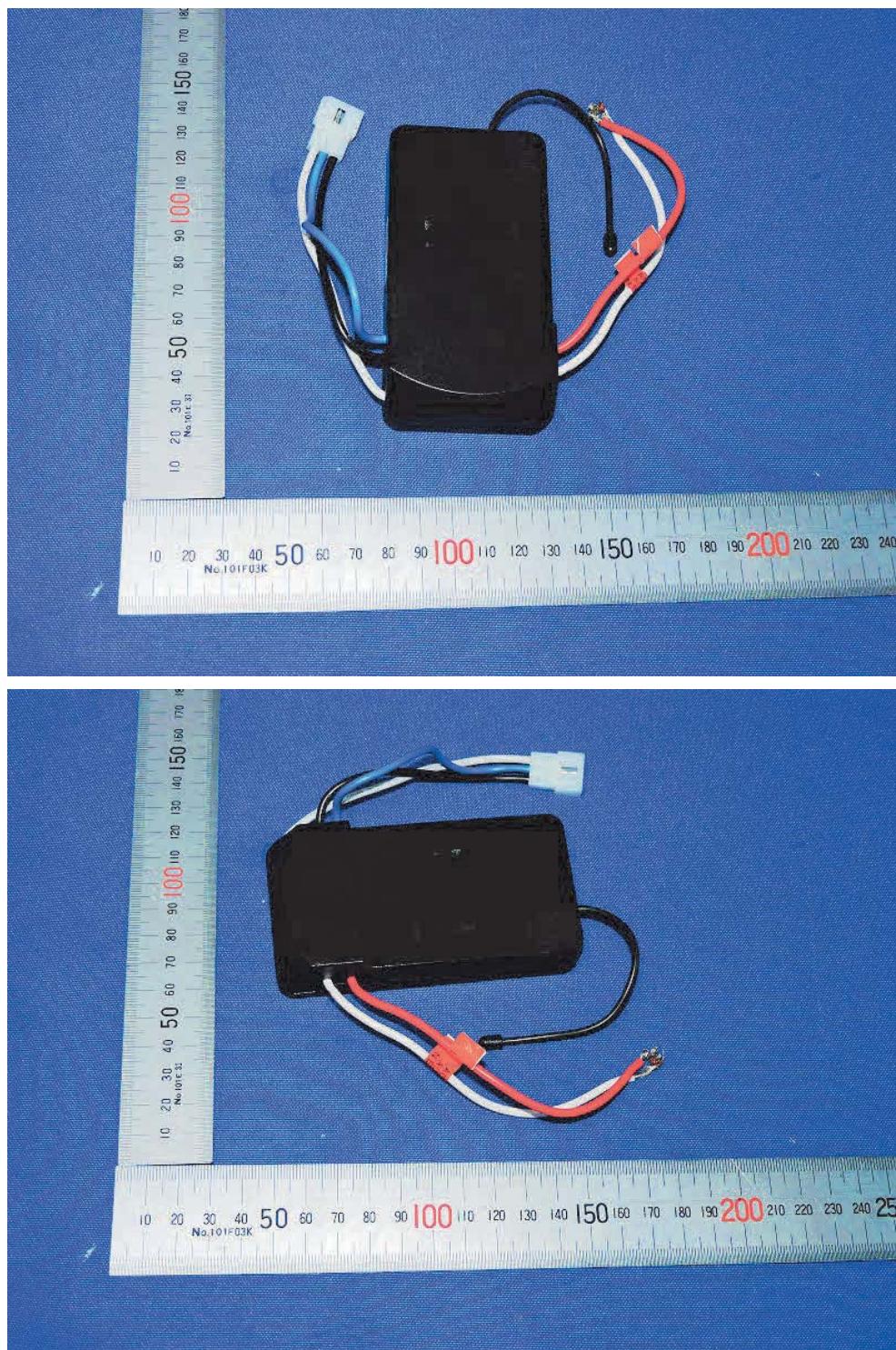
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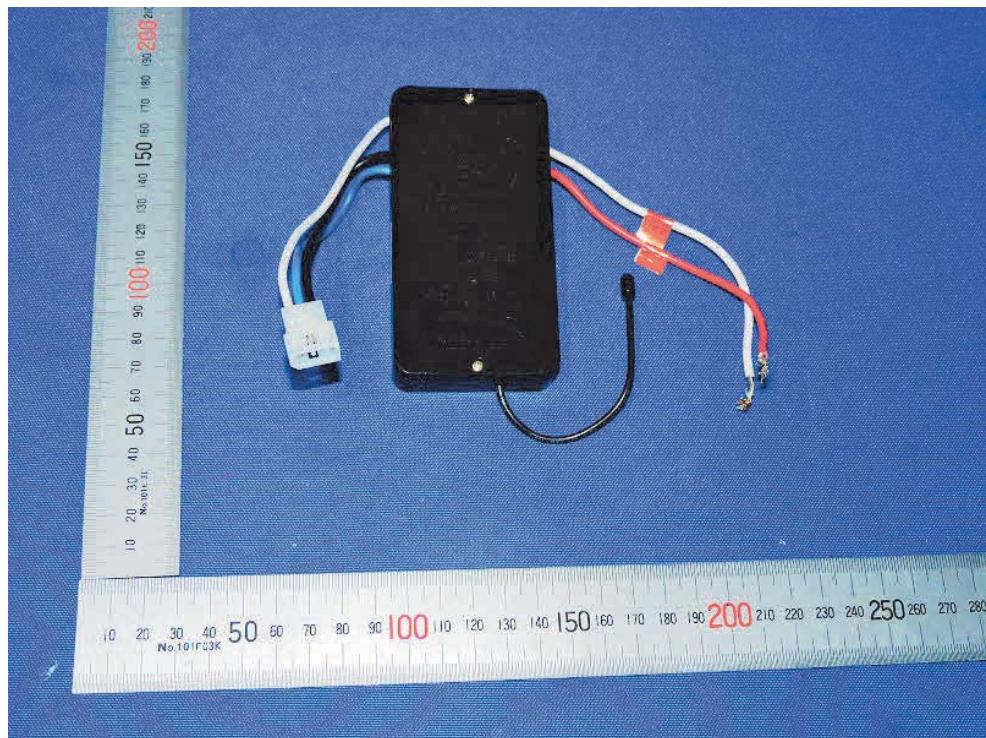
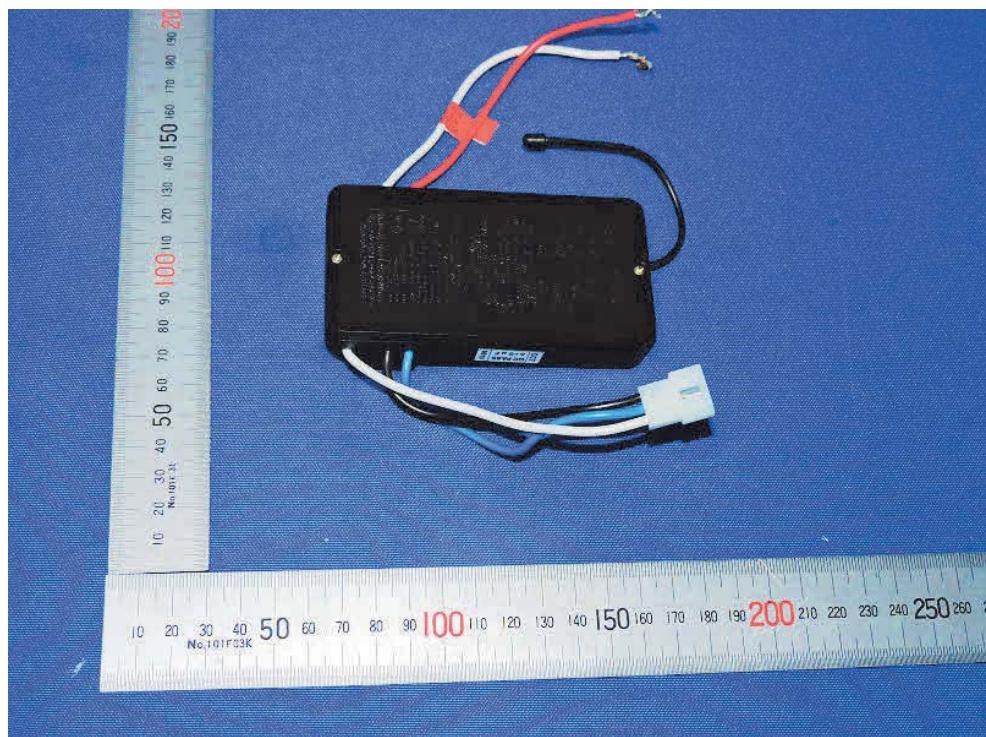
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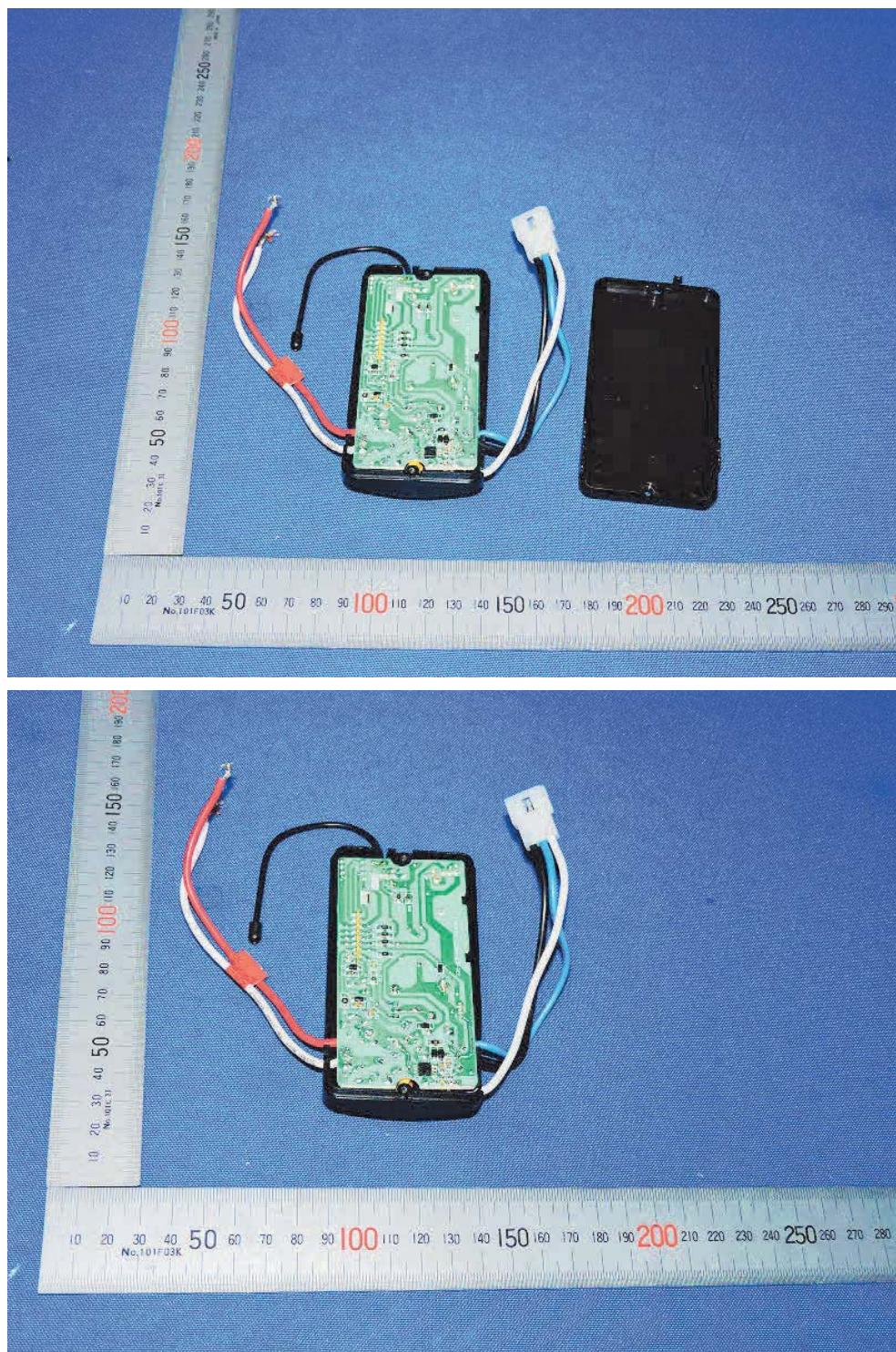
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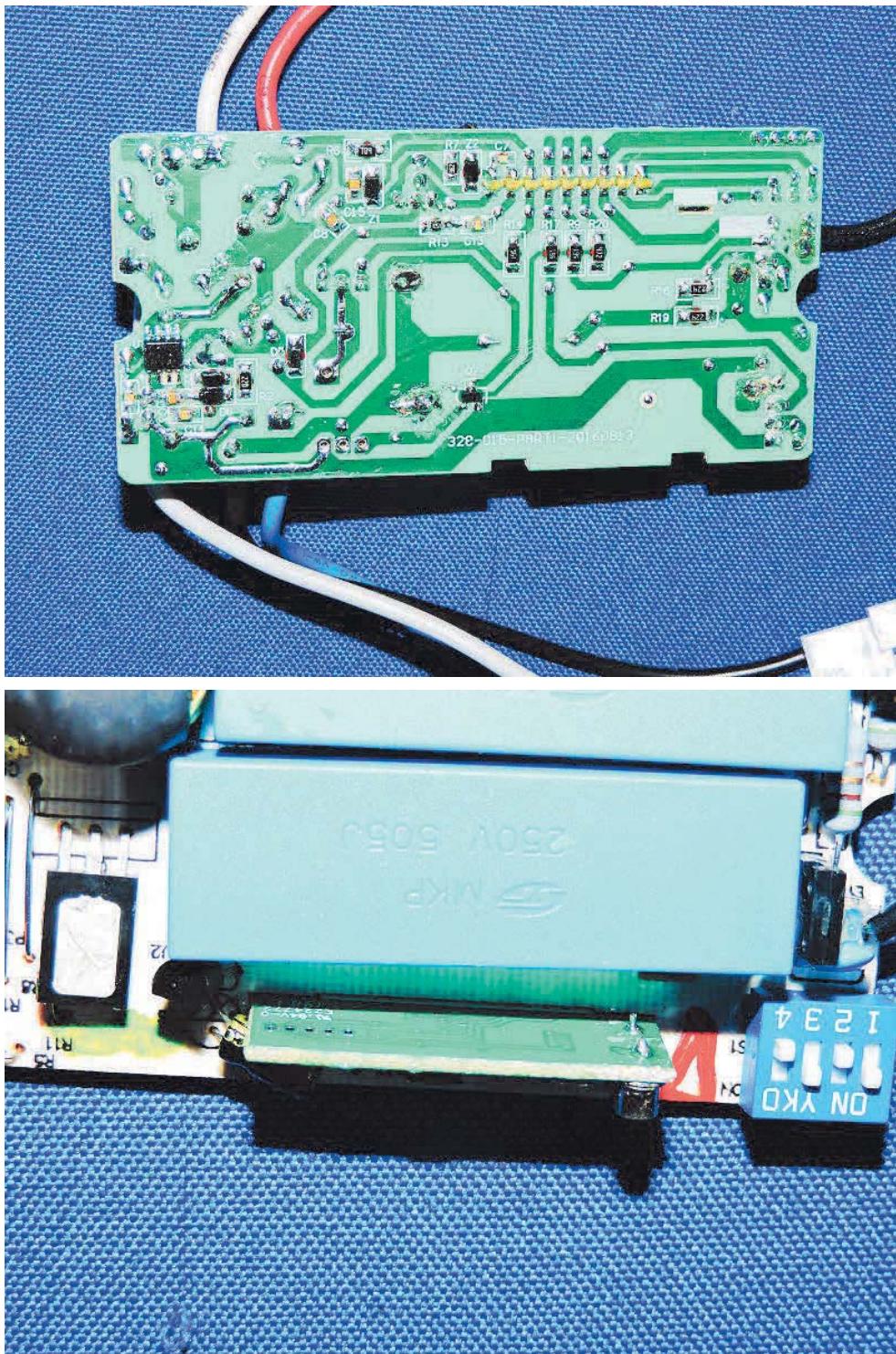
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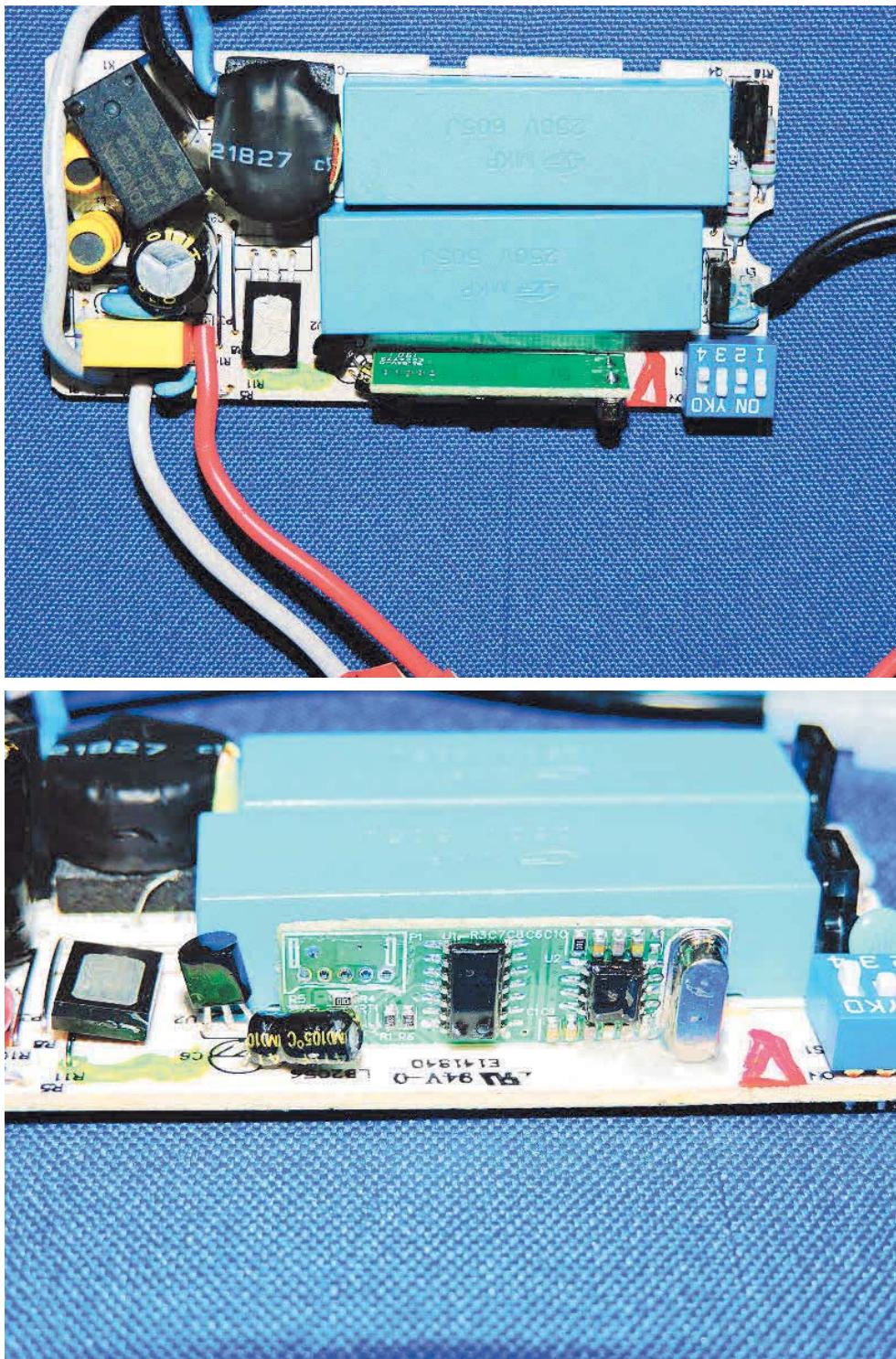
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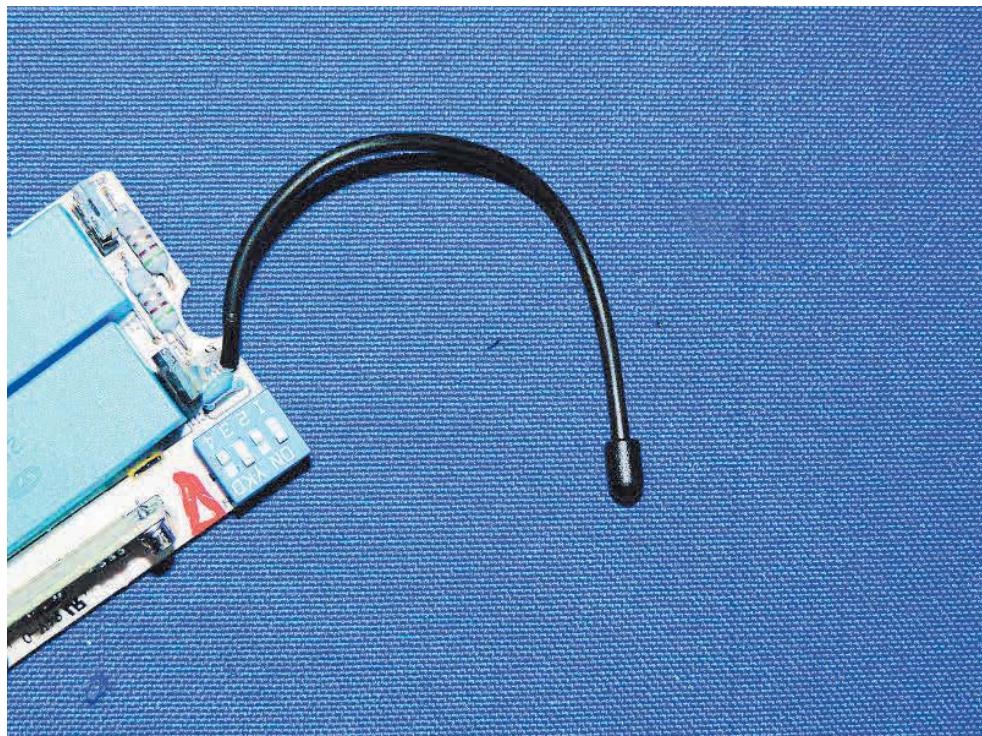
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**-End of the report-**

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