

# TECHNICAL REPORT



Report No: FCC1608077-01

File reference No: 2016-08-18

Applicant: King of Fans, Inc.

Product: 52 inch Windward IV

Model No: 52-WWDIV

Trademark: Home Decorators Collection, Hampton Bay.

Test Standards: FCC Part 15 Subpart B: 2016

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: August 18, 2016

**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**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,  
Shenzhen, Guangdong, 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.: 899988**

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.: 899988.

#### **IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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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: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone,  
Futian District,Shenzhen, Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m & 10 m OATS  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m & 10 m OATS

### 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: 52" Windward IV  
Manufacturer: Chienlun Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area,Nanlang Town, Zhongshan,Guangdong  
China 528451  
Brand Name: Home Decorators Collection , or Hampton Bay.  
Model Number: 52-WWDIV  
Input: 120V, 60Hz; FAN W/O light kit 0.5A, 60W; FAN W/Light kit: 0.65A, 74W  
Rx Frequency: 304.25MHz

### 1.4 Submitted Sample: 1 Samples

### 1.5 Test Duration: 2016-08-12 to 2016-08-18

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

### 1.7 Test Engineer

The sample tested by

Print Name: Terry Tong

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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	2016.06.11	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2016.06.11	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2016.06.11	1Year
LISN	ESH3-Z5	100294	RS	2016.06.11	1Year
LISN	ESH3-Z5	100253	RS	2016.06.11	1Year

### 2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2016.06.11	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2016.06.11	1Year
Amplifier	8447D	2727A05017	HP	2016.06.11	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2016.06.11	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2015.08.24	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2015.08.24	1Year

### 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: 2016**

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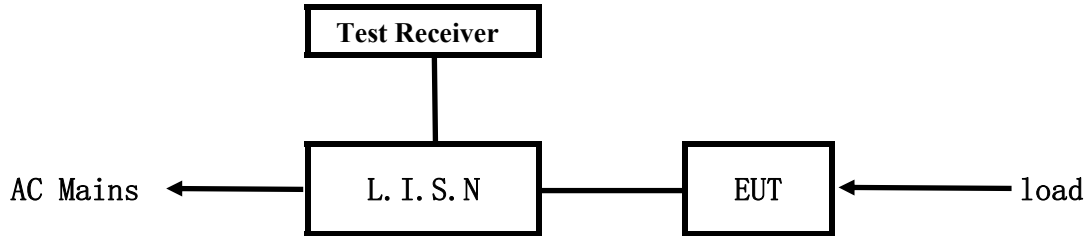
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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



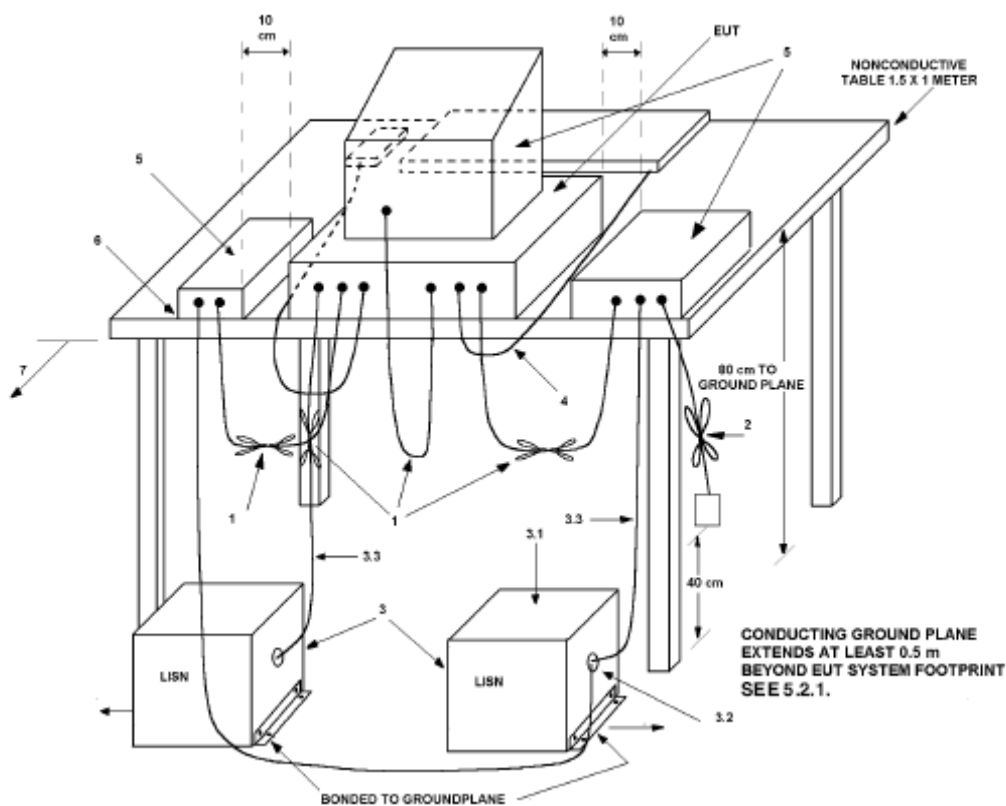
EUT: Equipment Under Test

##### 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 A Limits dB( $\mu$ V)		Class B Limits dB( $\mu$ 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 ~ 5.00	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.





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

**EUT Operating Environment**

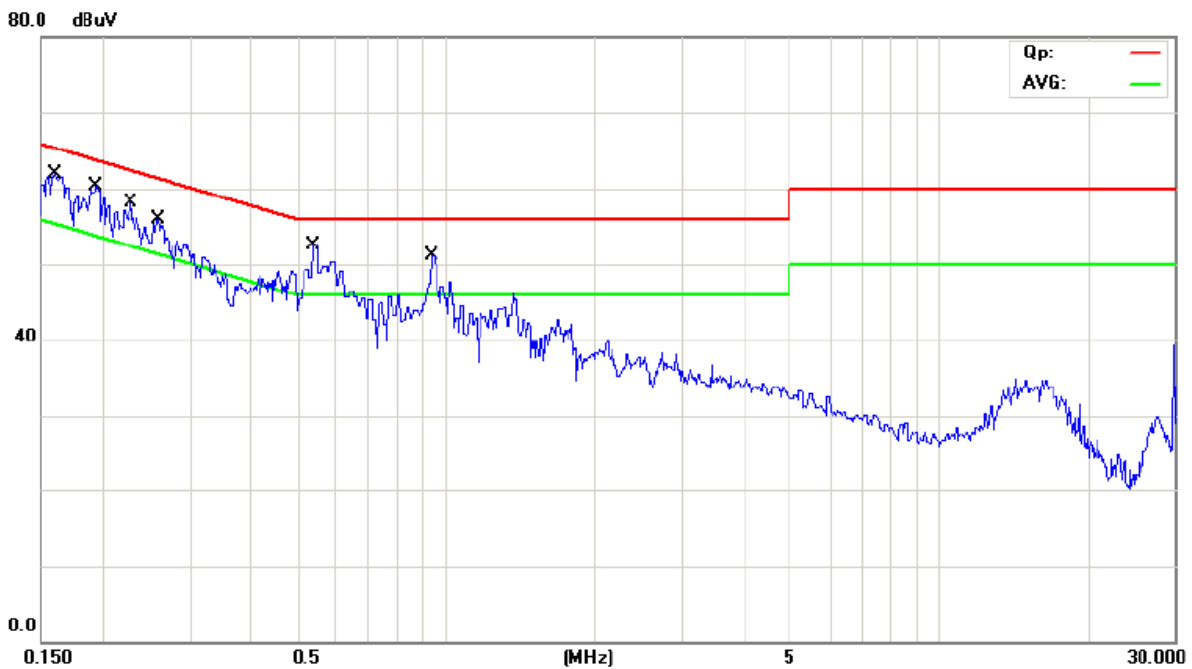
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1590	47.90	11.01	58.91	65.52	-6.61	QP	
2	*	0.1590	41.90	11.01	52.91	55.52	-2.61	AVG	
3		0.1945	45.50	11.05	56.55	63.84	-7.29	QP	
4		0.1945	38.20	11.05	49.25	53.84	-4.59	AVG	
5		0.2277	43.00	11.08	54.08	62.53	-8.45	QP	
6		0.2277	36.70	11.08	47.78	52.53	-4.75	AVG	
7		0.2568	41.50	11.11	52.61	61.53	-8.92	QP	
8		0.2568	34.90	11.11	46.01	51.53	-5.52	AVG	
9		0.5448	35.50	11.42	46.92	56.00	-9.08	QP	
10		0.5448	28.80	11.42	40.22	46.00	-5.78	AVG	
11		0.9357	29.80	11.83	41.63	56.00	-14.37	QP	
12		0.9357	23.90	11.83	35.73	46.00	-10.27	AVG	

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

**EUT Operating Environment**

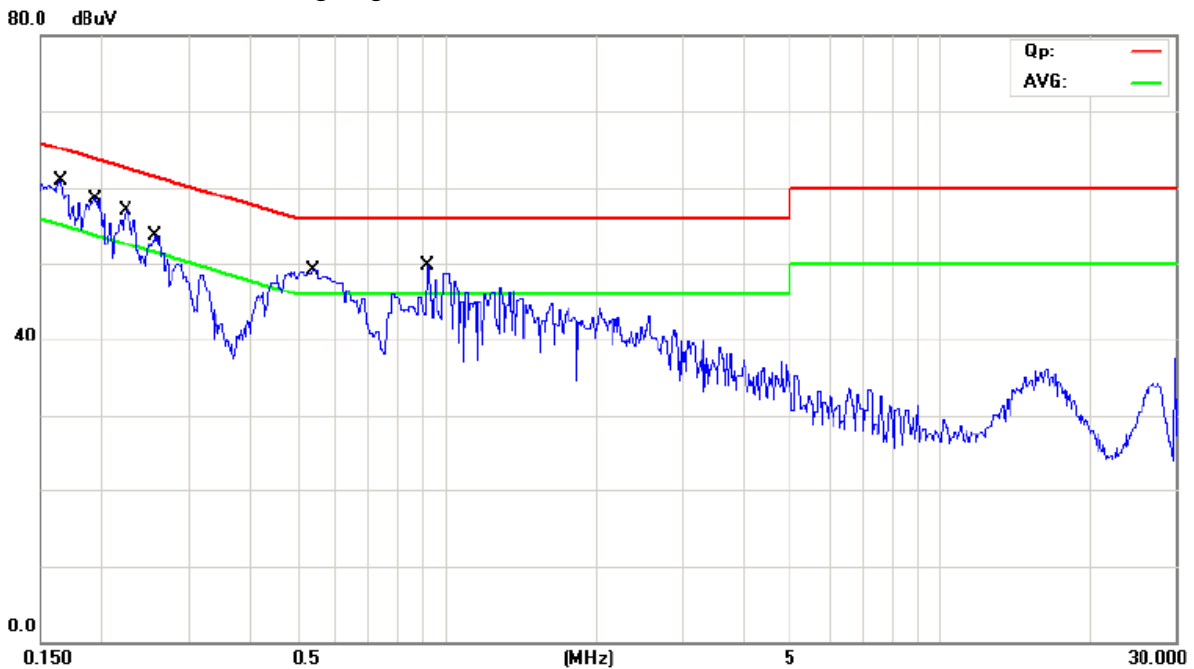
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**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		0.1641	46.70	11.01	57.71	65.25	-7.54	QP	
2		0.1641	40.70	11.01	51.71	55.25	-3.54	AVG	
3		0.1923	45.60	11.04	56.64	63.94	-7.30	QP	
4	*	0.1923	40.00	11.04	51.04	53.94	-2.90	AVG	
5		0.2228	43.50	11.08	54.58	62.71	-8.13	QP	
6		0.2228	37.20	11.08	48.28	52.71	-4.43	AVG	
7		0.2561	41.40	11.11	52.51	61.56	-9.05	QP	
8		0.2561	35.00	11.11	46.11	51.56	-5.45	AVG	
9		0.5404	35.40	11.41	46.81	56.00	-9.19	QP	
10		0.5404	30.30	11.41	41.71	46.00	-4.29	AVG	
11		0.9121	28.00	11.81	39.81	56.00	-16.19	QP	
12		0.9121	20.40	11.81	32.21	46.00	-13.79	AVG	

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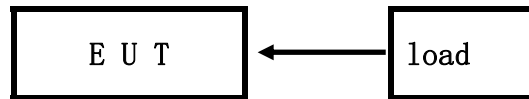
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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

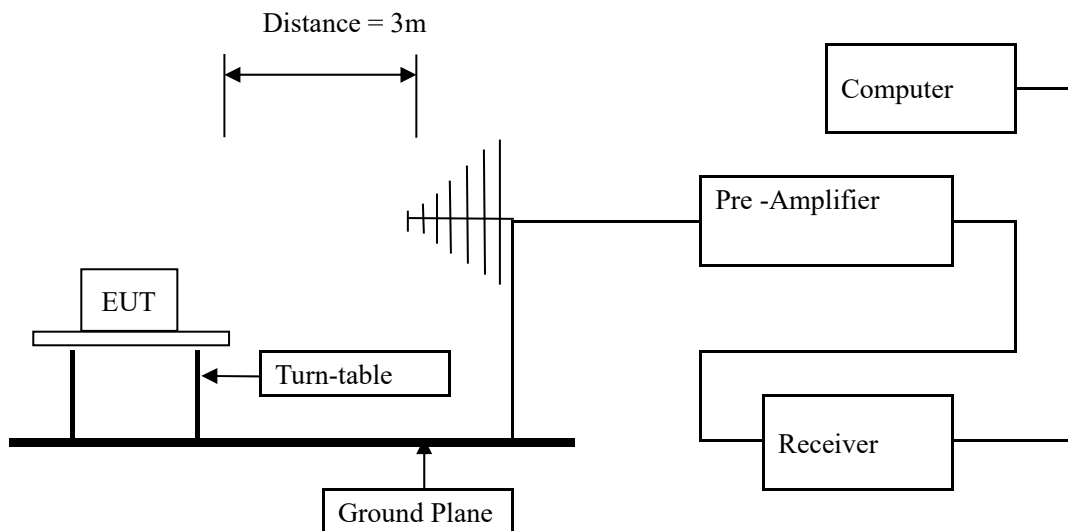


### 5.2 Test Method and test Procedure:

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

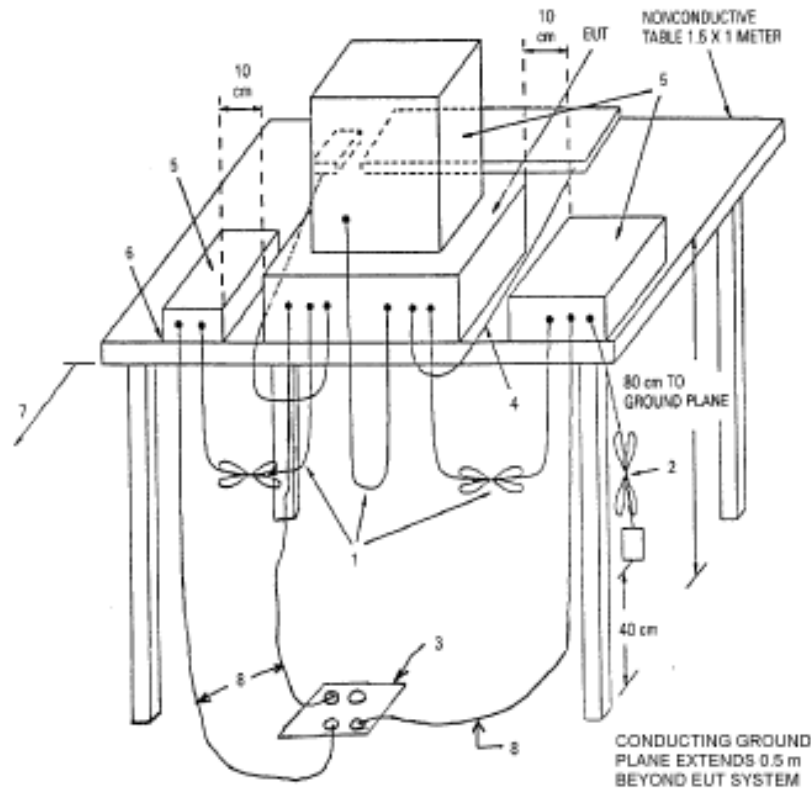
#### Block diagram of Test setup



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### 5.3 Radiated Emission Limit

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

Note: 1. The lower limit shall apply at the transition frequencies

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

### 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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**Test result**

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

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

**EUT set Condition: Receiving Mode**

**Results: Pass**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
331.880	39.09	H	46.00
97.040	26.19	H	43.50
226.040	36.52	H	46.00
331.960	30.47	V	46.00
94.320	26.31	V	43.50
226.400	29.31	V	46.00

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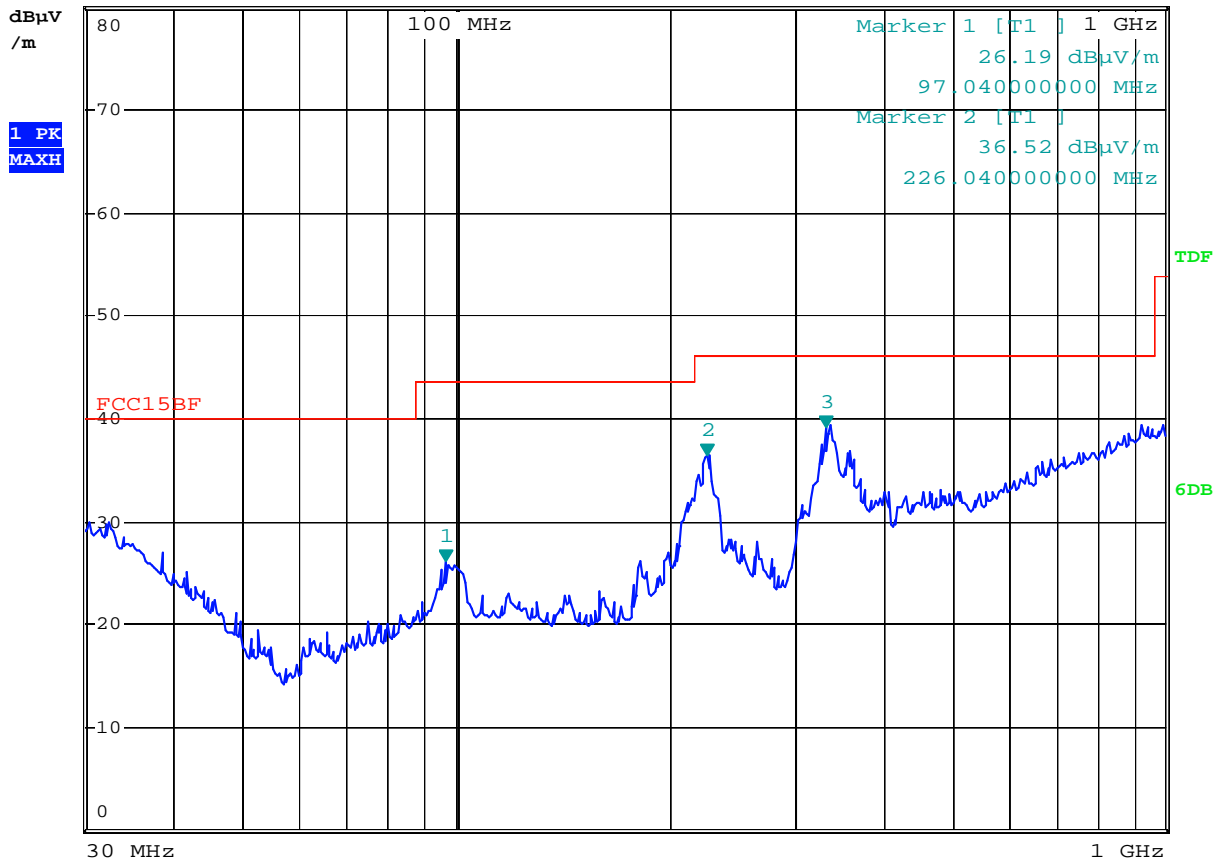
Test Figure:

H



**MARKER 3**  
 331.88 MHz  
 Att 10 dB

RBW 120 kHz Marker 3 [T1 ]  
 MT 50 μs 39.09 dBμV/m  
 PREAMP ON 331.880000000 MHz

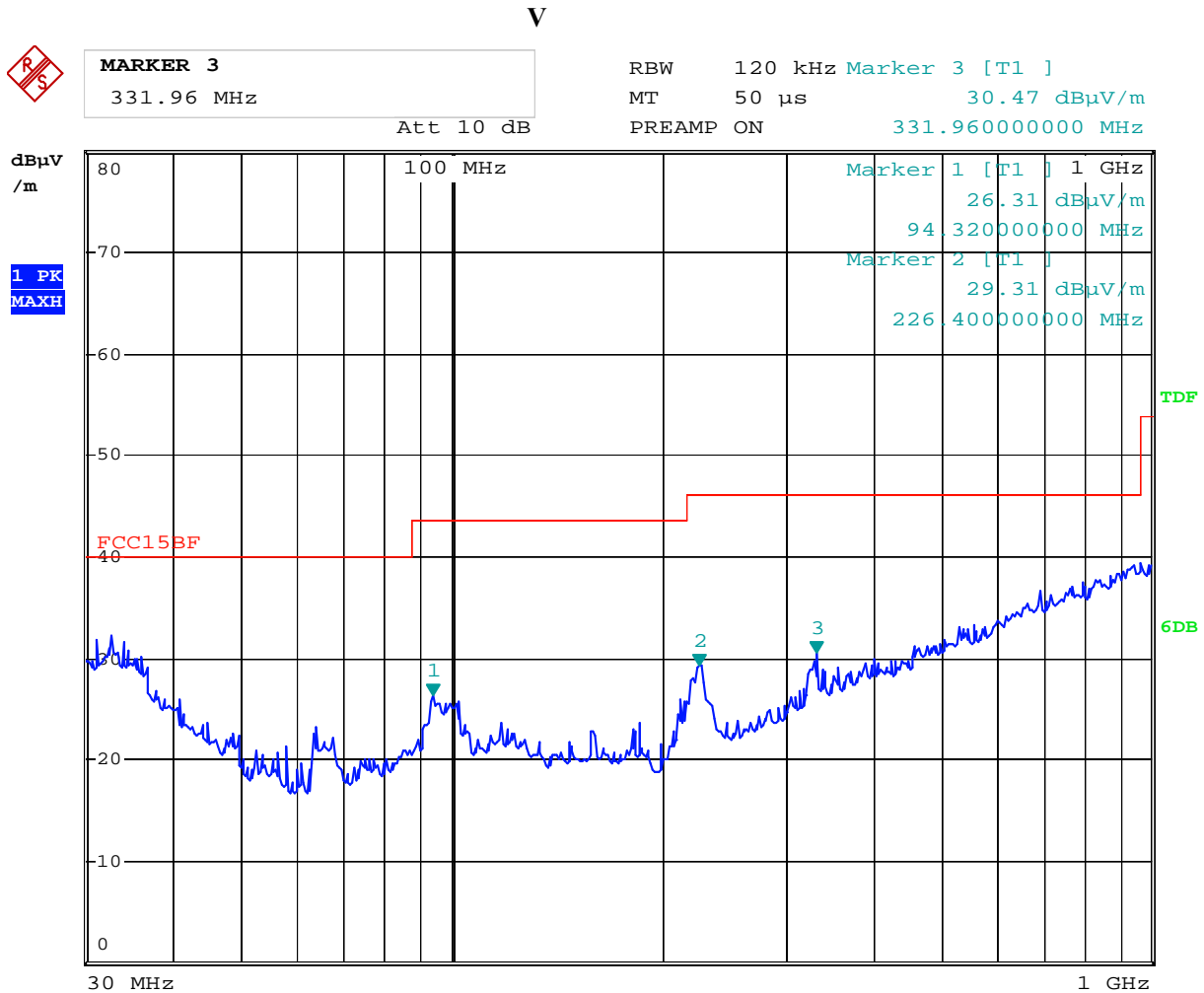


Date: 17.AUG.2016 10:49:14

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Test Figure:



Date: 17.AUG.2016 10:45:10

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**Radiated Disturbance (1000MHz----5000MHz)**

**EUT Operating Environment**

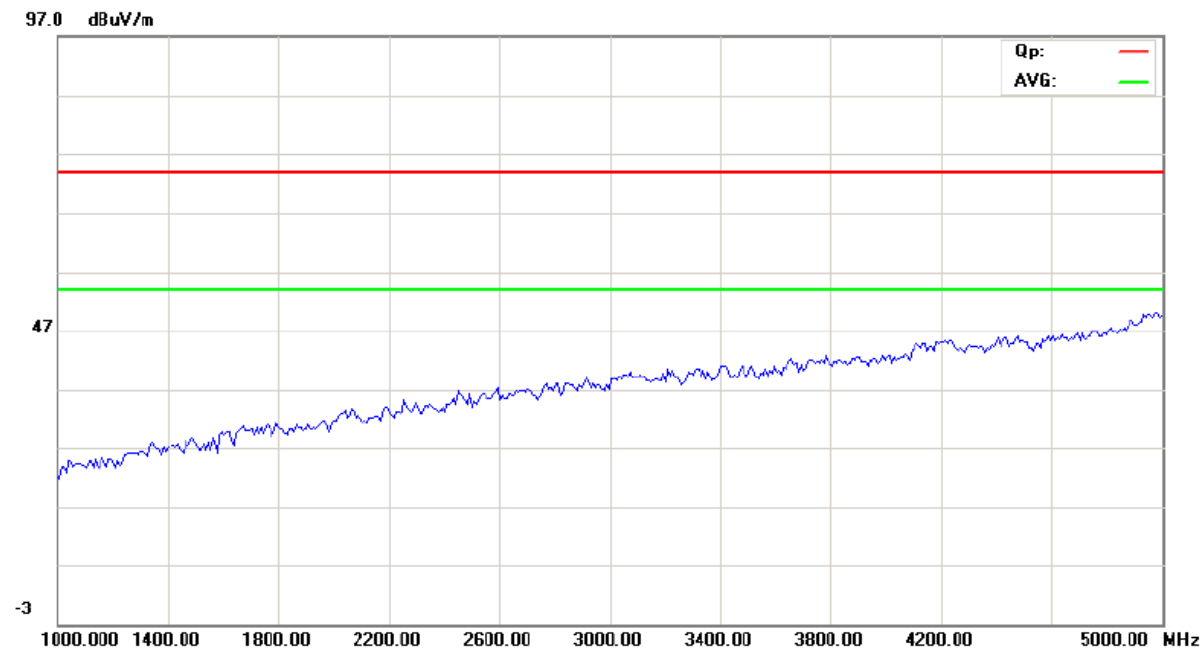
**Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa**

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)

Note: Peak scan result curve is lower than AV limit

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**Radiated Disturbance (1000MHz----5000MHz)**

**EUT Operating Environment**

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

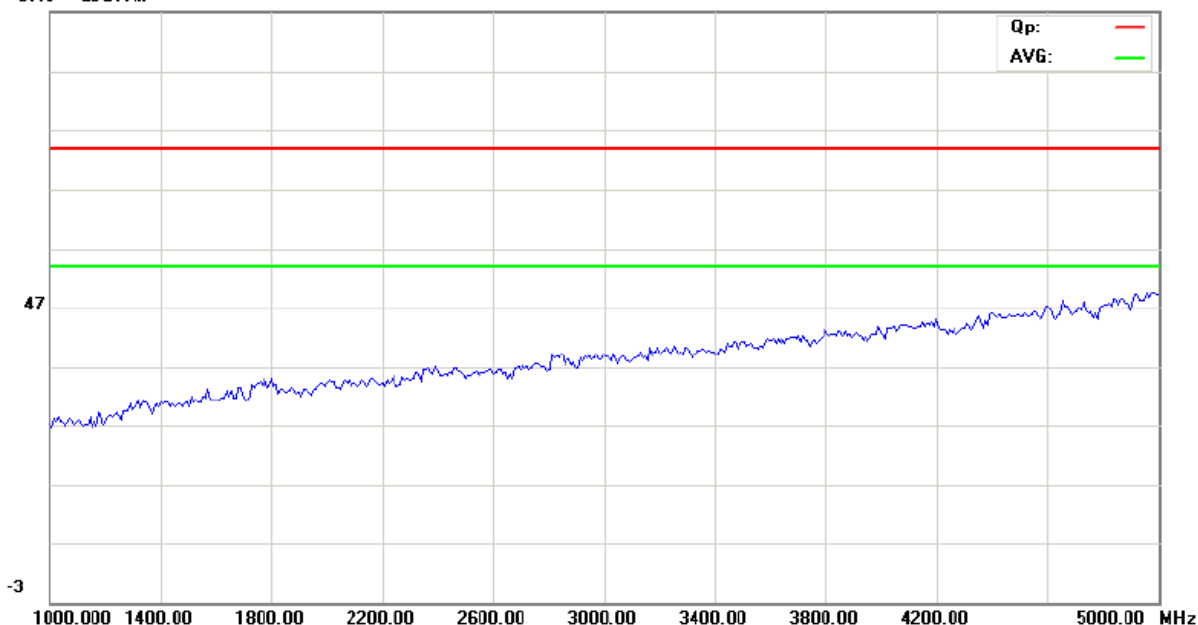
**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual

97.0 dBuV/m



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: Peak scan result curve is lower than AV limit

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## 6.0 FCC ID Label

### FCC ID: RGB-52WWDIVC2

**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.

#### Mark Location:



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7.0 Photo of testing

7.1 Conducted test View--



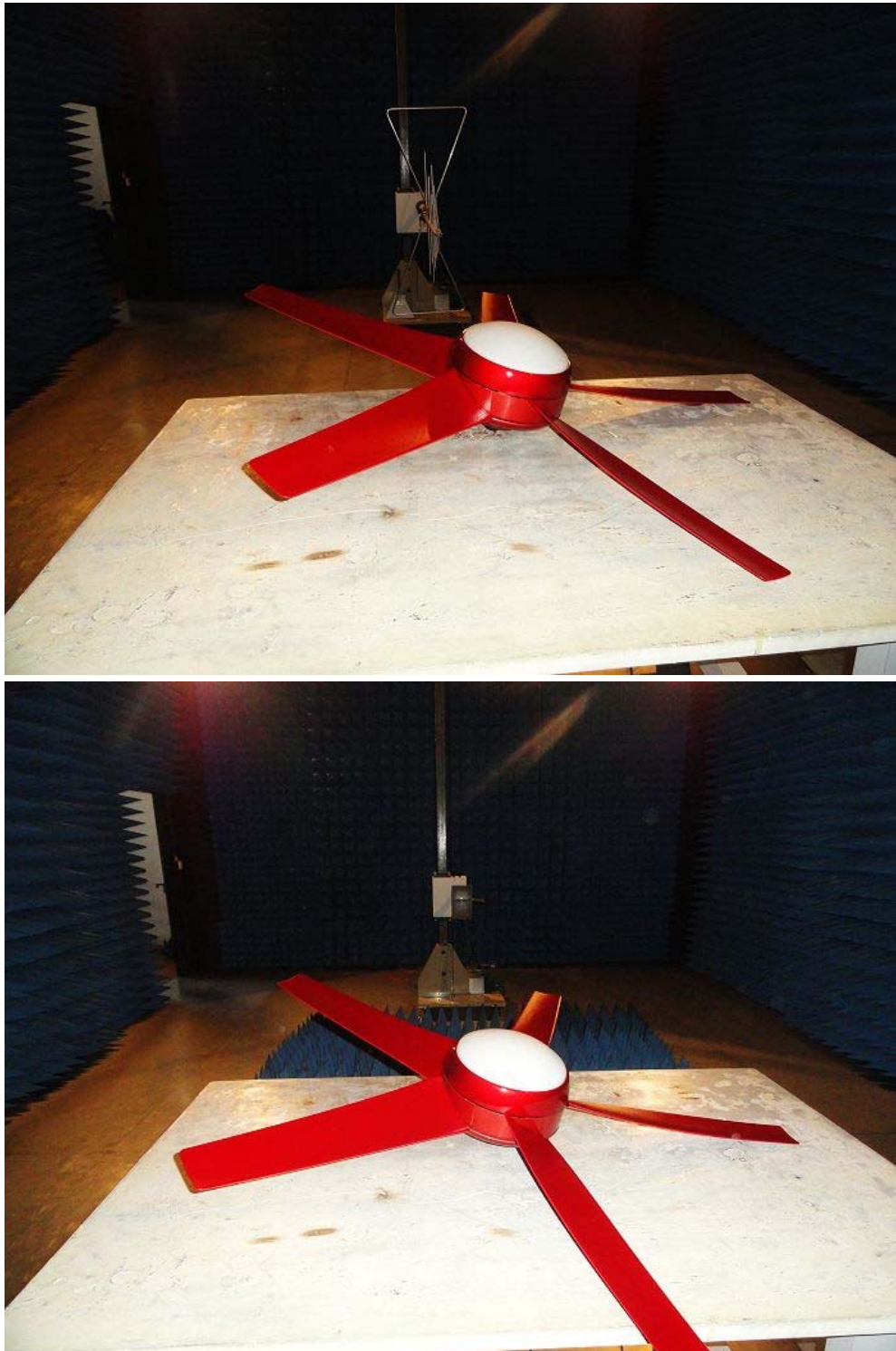
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7.2 Radiated emission test view--



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Photo for the EUT



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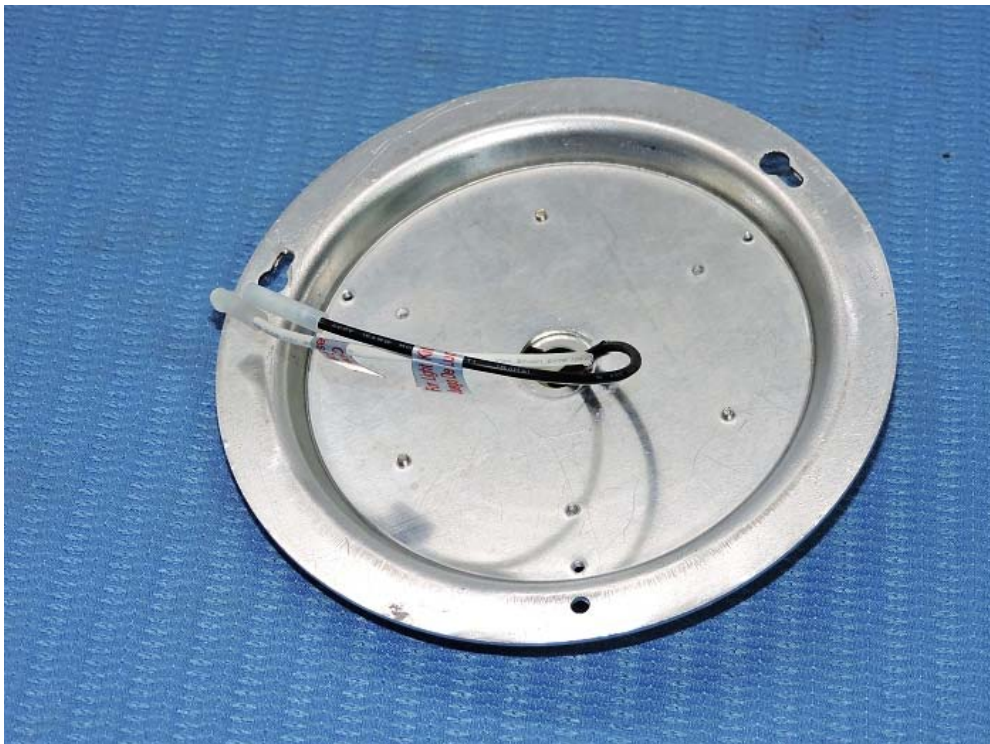


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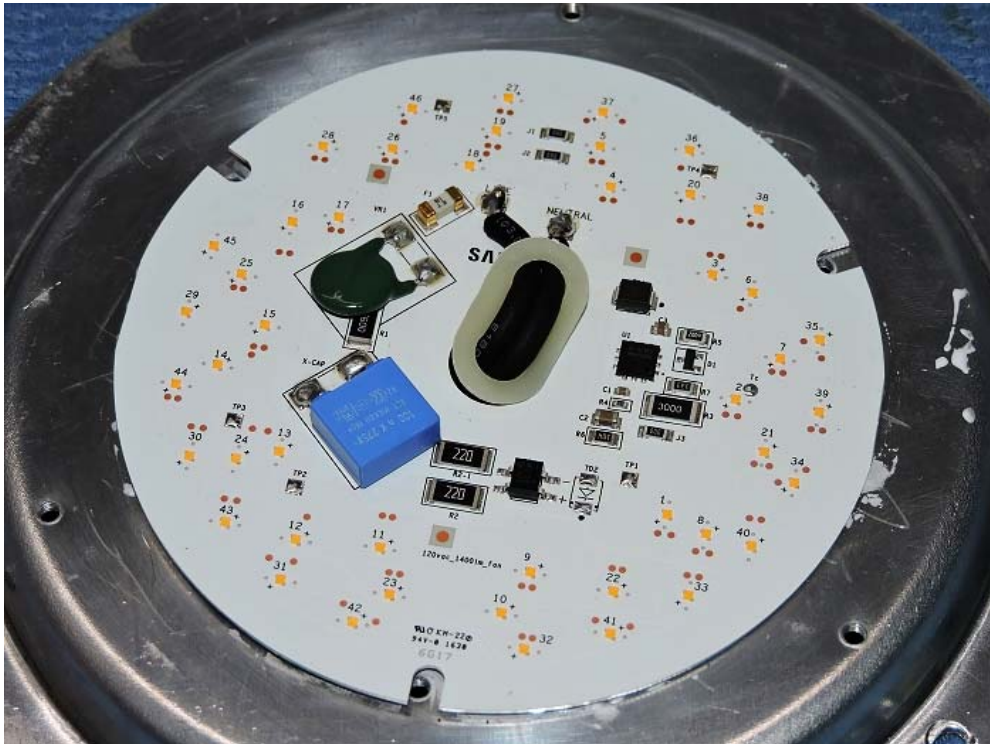
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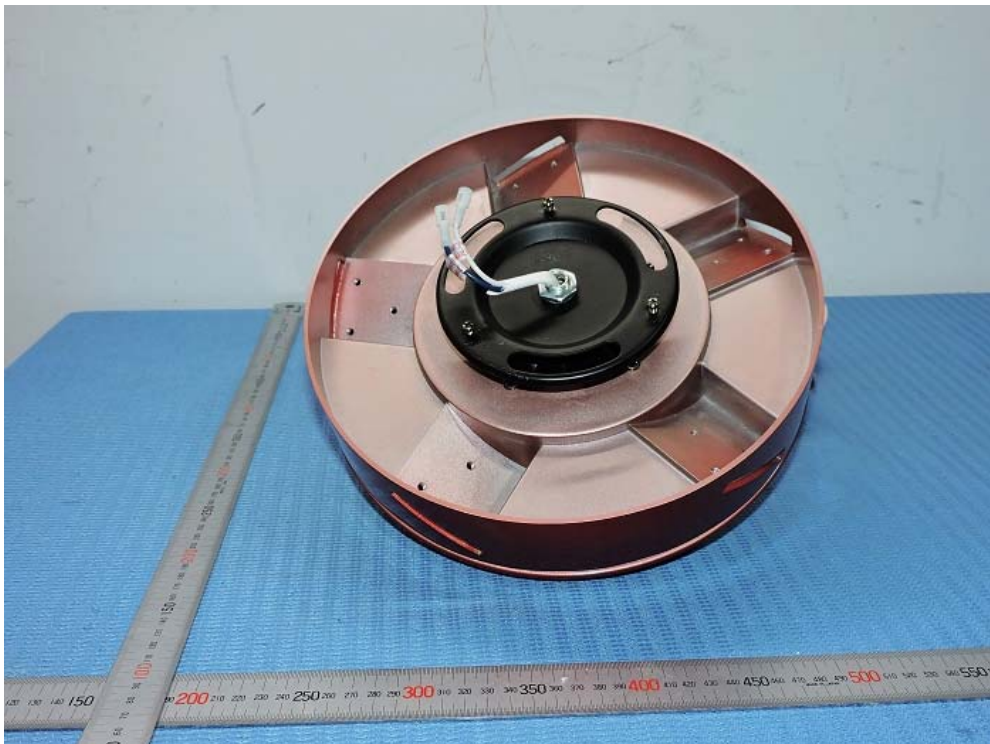
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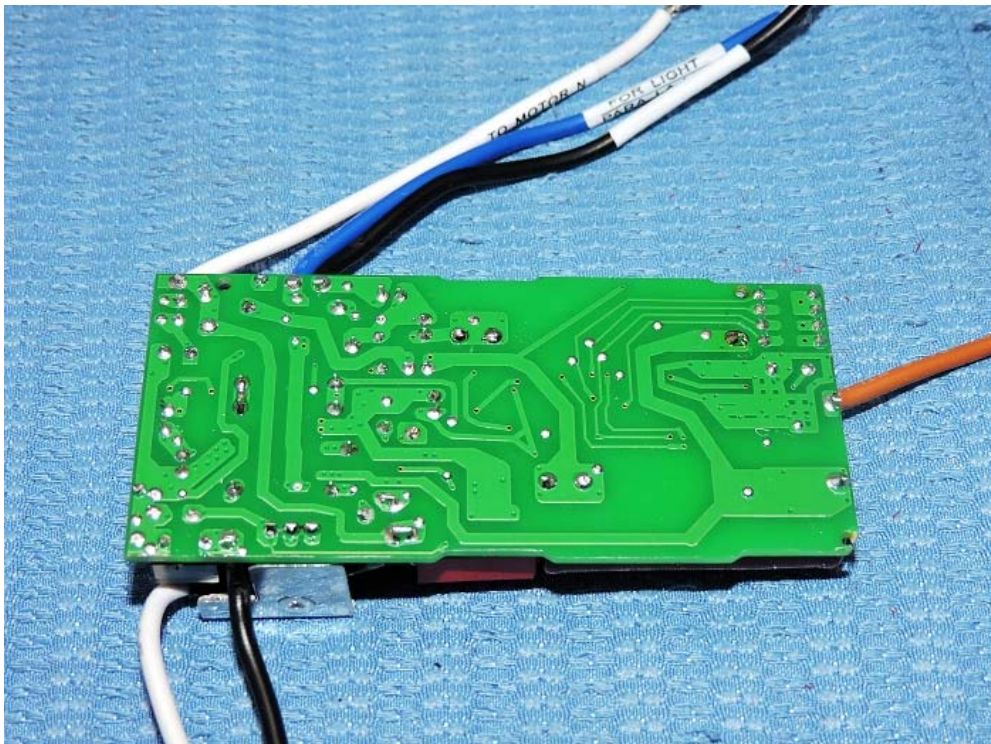
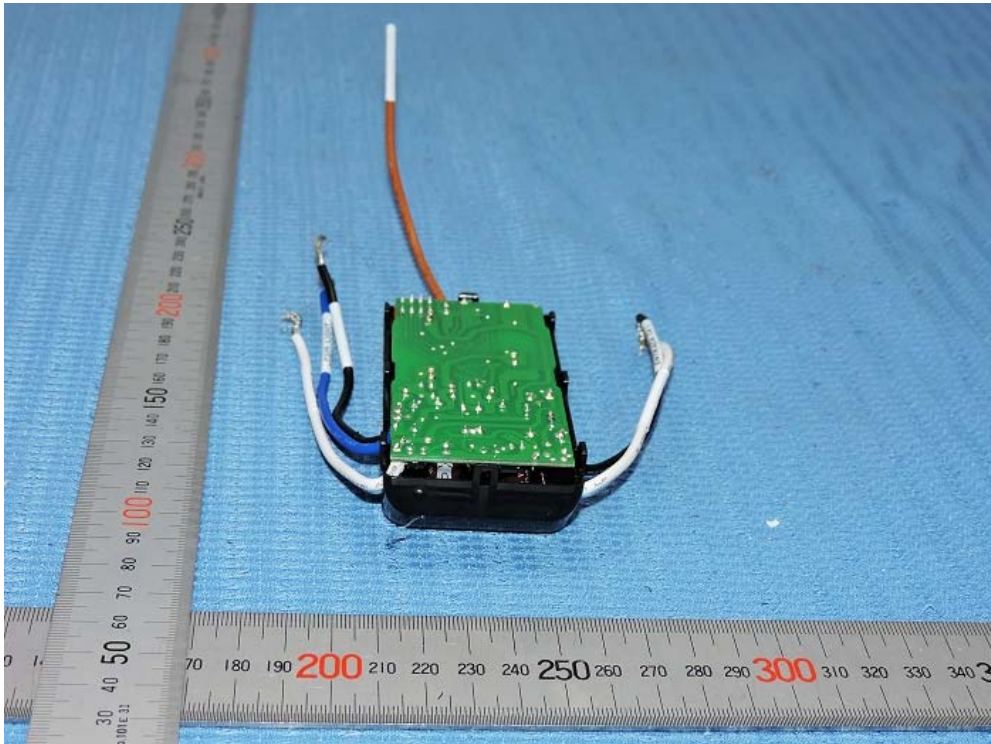


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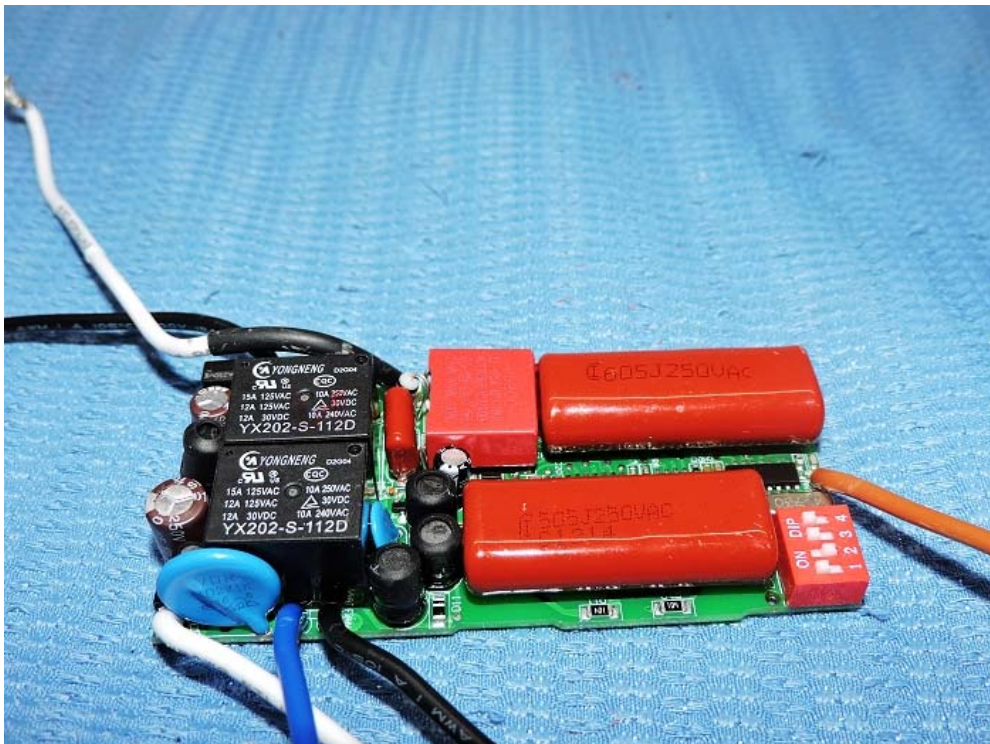
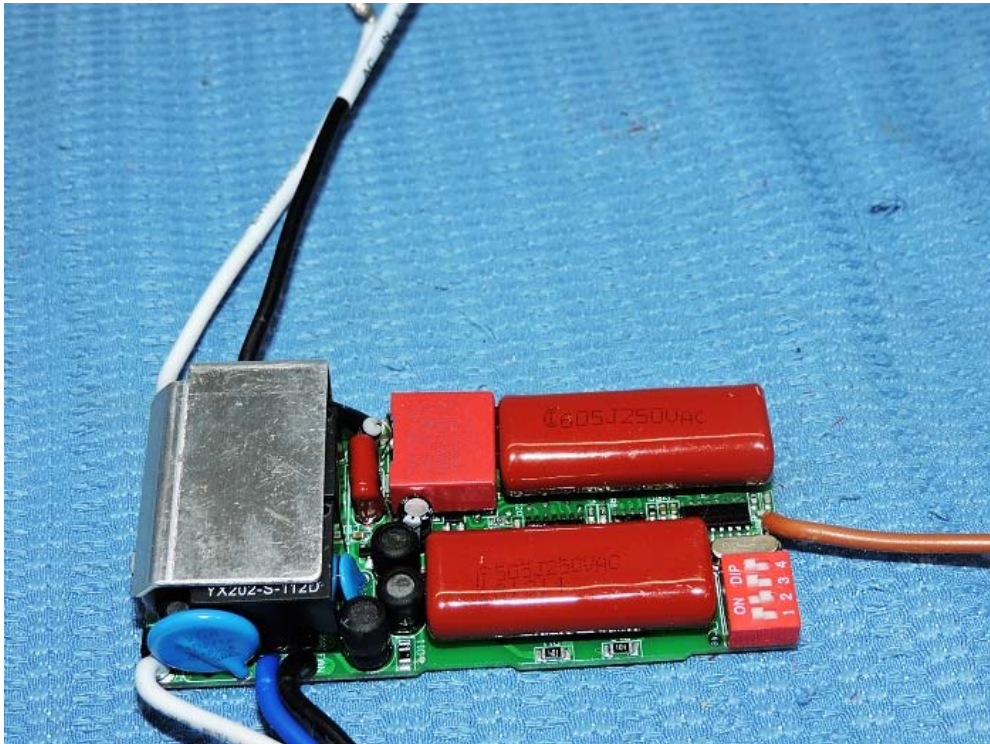


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**-End of the report-**

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