

TECHNICAL REPORT



Report No.: TW2009035E

File Reference No.: 2020-09-09

Applicant: King of Fans, Inc.

Product: 52"SAVANNAH (was Wheaton)52027/52029

Brand Name: Home Decorators Collection

Model No.: 52-WHEA

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 Tang".

---

Terry Tang

Manager

Dated: September 09, 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](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: 52"SAVANNAH (was Wheaton)52027/52029  
Manufacturer: Chienlun Industries (zhongshan) Ltd..  
Address: Da Che Industrial Area,Nanlang Town, Zhongshan,Guangdong China 528451  
Brand Name: Home Decorators Collection  
Model Number: 52-WHEA  
Rating : Input: 120V, 60Hz, Fan W/O Light Kit: 0.6A, w/o light 72W; Output: w/light 1.1A, w/light 132W  
Rx Frequency: 304MHz

### 1.4 Submitted Sample: 1 Sample

### 1.5 Test Duration

Date of Receipt of Application: September 03, 2020  
Date of Receipt of Test Item: September 03, 2020  
Date of Test: September 03, 2020 ~ September 09, 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

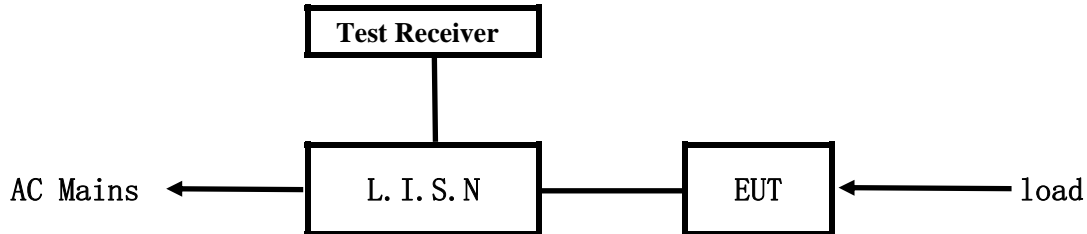
**FCC Part 15 Subpart B**

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#### 4.0 Conducted Power line Test

##### 4.1 Schematics of the test



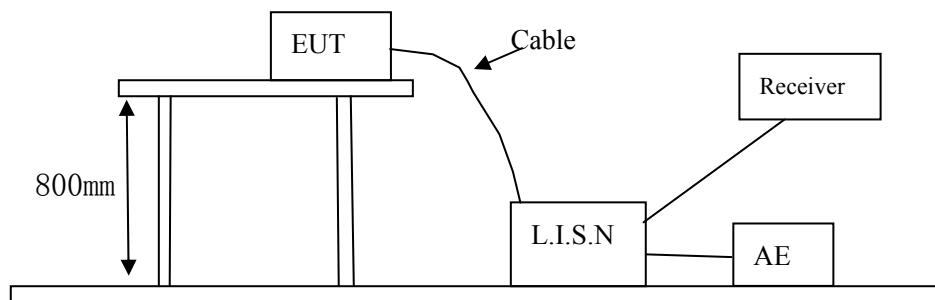
EUT: Equipment Under Test

##### 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(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 ~ 5.0	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.

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**

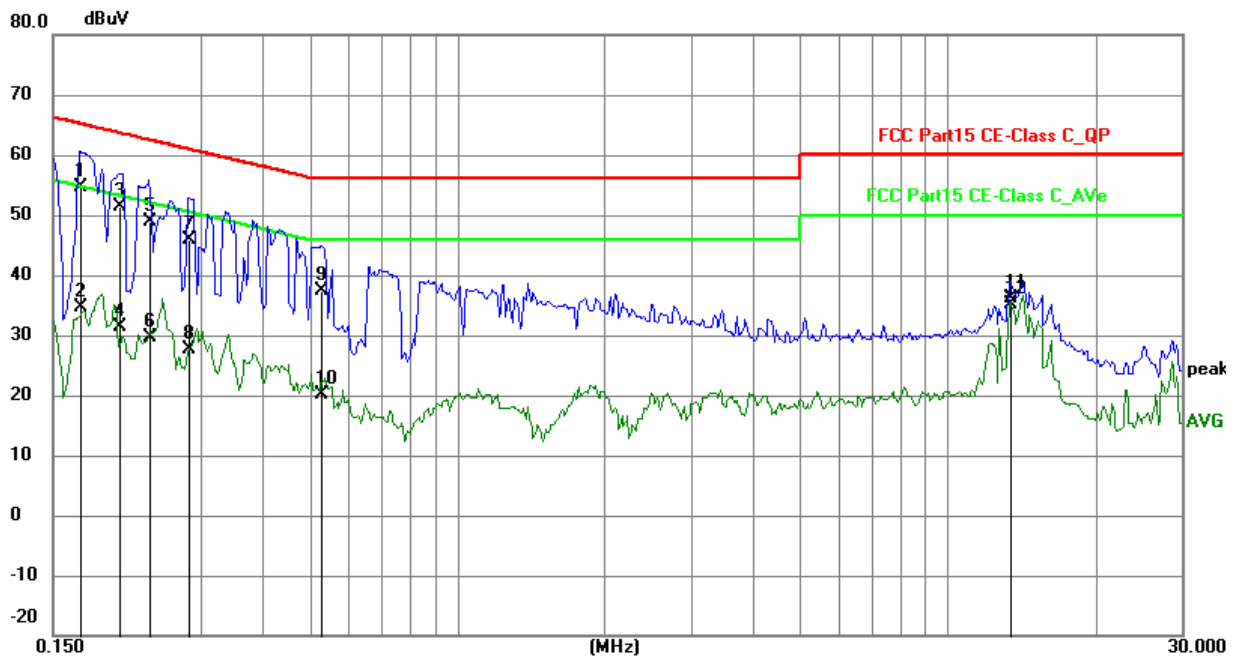
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition : Receiving Mode**

**Results: Pass**

**Equipment Level: Class B**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	44.98	9.77	54.75	64.98	-10.23	QP	P
2	0.1695	24.78	9.77	34.55	54.98	-20.43	AVG	P
3	0.2046	41.66	9.75	51.41	63.42	-12.01	QP	P
4	0.2046	21.58	9.75	31.33	53.42	-22.09	AVG	P
5	0.2358	39.02	9.75	48.77	62.24	-13.47	QP	P
6	0.2358	19.91	9.75	29.66	52.24	-22.58	AVG	P
7	0.2826	36.06	9.76	45.82	60.74	-14.92	QP	P
8	0.2826	17.90	9.76	27.66	50.74	-23.08	AVG	P
9	0.5283	27.58	9.77	37.35	56.00	-18.65	QP	P
10	0.5283	10.41	9.77	20.18	46.00	-25.82	AVG	P
11	13.4169	25.82	10.31	36.13	60.00	-23.87	QP	P
12	13.4169	24.84	10.31	35.15	50.00	-14.85	AVG	P

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

**EUT Operating Environment**

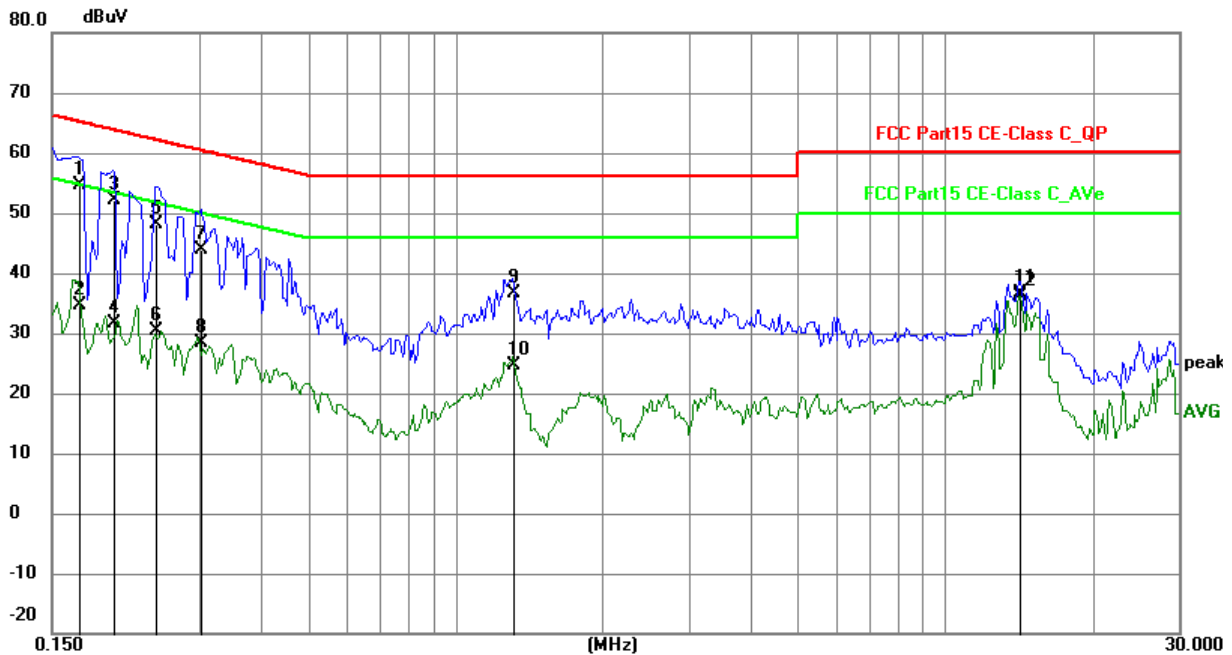
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

**EUT set Condition : Receiving Mode**

**Results: Pass**

**Equipment Level: Class B**

Please refer to following diagram for individual



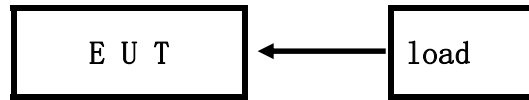
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1695	44.86	9.77	54.63	64.98	-10.35	QP	P
2	0.1695	24.85	9.77	34.62	54.98	-20.36	AVG	P
3	0.2007	42.28	9.75	52.03	63.58	-11.55	QP	P
4	0.2007	21.81	9.75	31.56	53.58	-22.02	AVG	P
5	0.2436	38.35	9.75	48.10	61.97	-13.87	QP	P
6	0.2436	20.58	9.75	30.33	51.97	-21.64	AVG	P
7	0.3021	34.00	9.76	43.76	60.18	-16.42	QP	P
8	0.3021	18.67	9.76	28.43	50.18	-21.75	AVG	P
9	1.3122	26.76	9.79	36.55	56.00	-19.45	QP	P
10	1.3122	14.88	9.79	24.67	46.00	-21.33	AVG	P
11	14.2125	26.34	10.35	36.69	60.00	-23.31	QP	P
12	14.2125	25.66	10.35	36.01	50.00	-13.99	AVG	P

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## 5.0 Radiated Disturbance Test

### 5.1 Schematics of the test

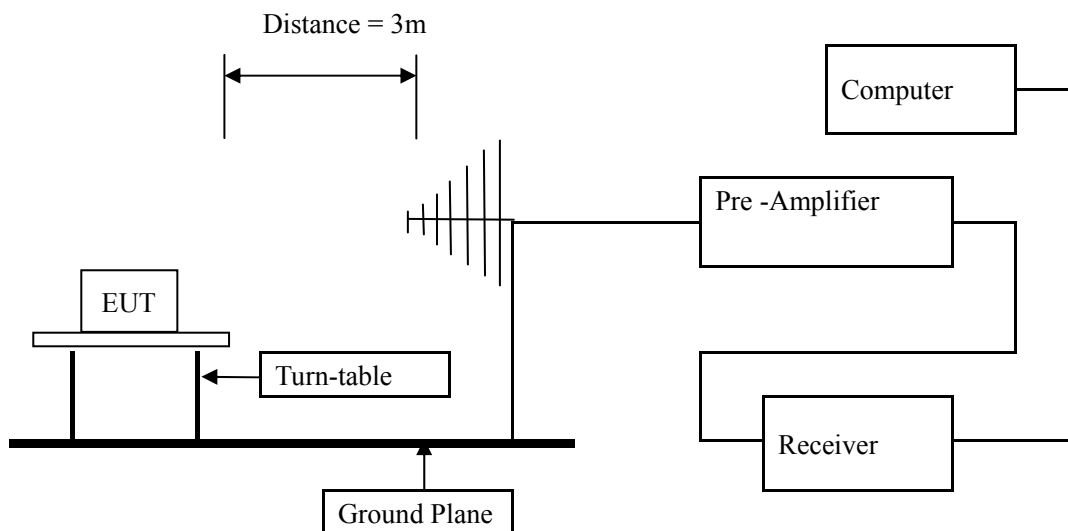


### 5.2 Test Method and test Procedure:

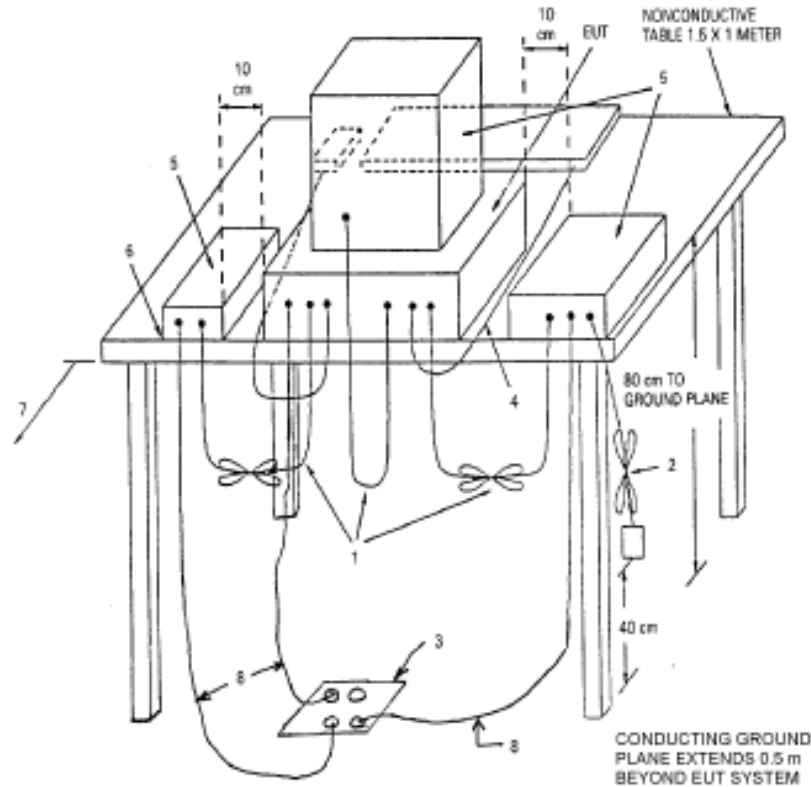
The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz,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

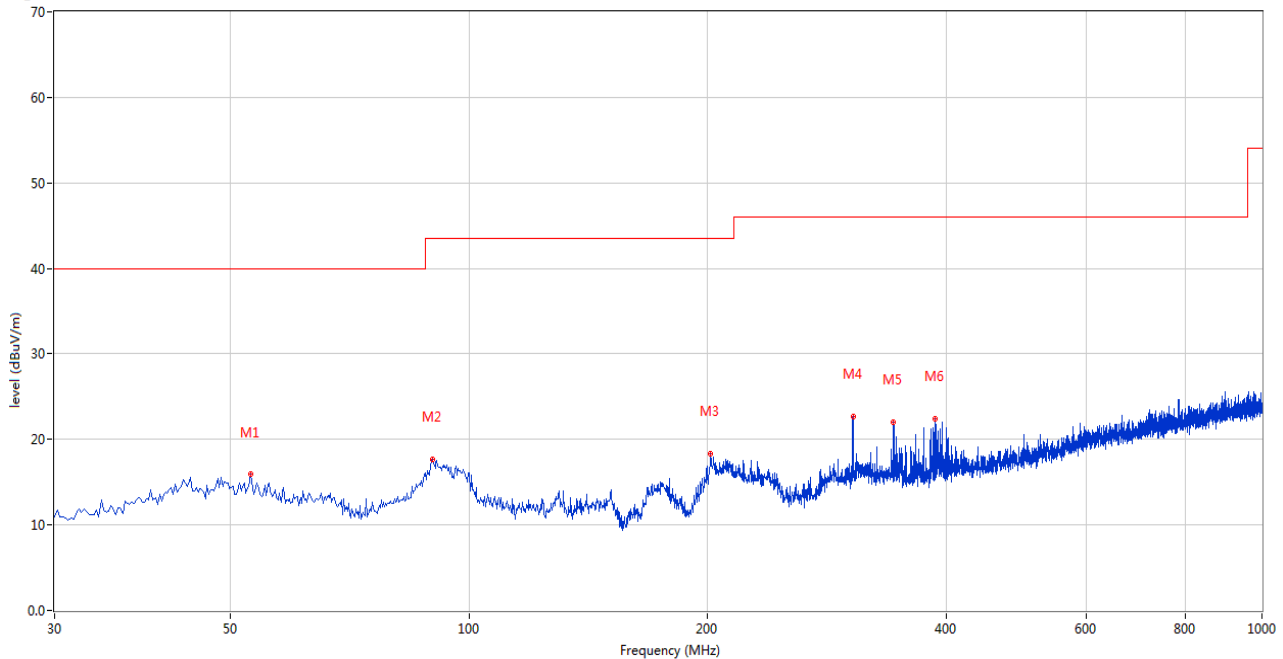
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**A: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-09-07_16.36.58
EUT Name:	52'SAVANNAH (was Wheaton)52027/52029	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC PART 15B
Model:	52-WHEA	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	53.032	15.89	-11.50	40.0	-24.11	Peak	0.00	200	Horizontal	Pass
2	89.883	17.71	-15.19	43.5	-25.79	Peak	328.00	200	Horizontal	Pass
3	201.647	18.28	-13.41	43.5	-25.22	Peak	191.00	200	Horizontal	Pass
4	304.926	22.66	-10.95	46.0	-23.34	Peak	111.00	100	Horizontal	Pass
5	342.989	22.04	-9.67	46.0	-23.96	Peak	222.00	100	Horizontal	Pass
6	386.628	22.39	-9.05	46.0	-23.61	Peak	117.00	100	Horizontal	Pass

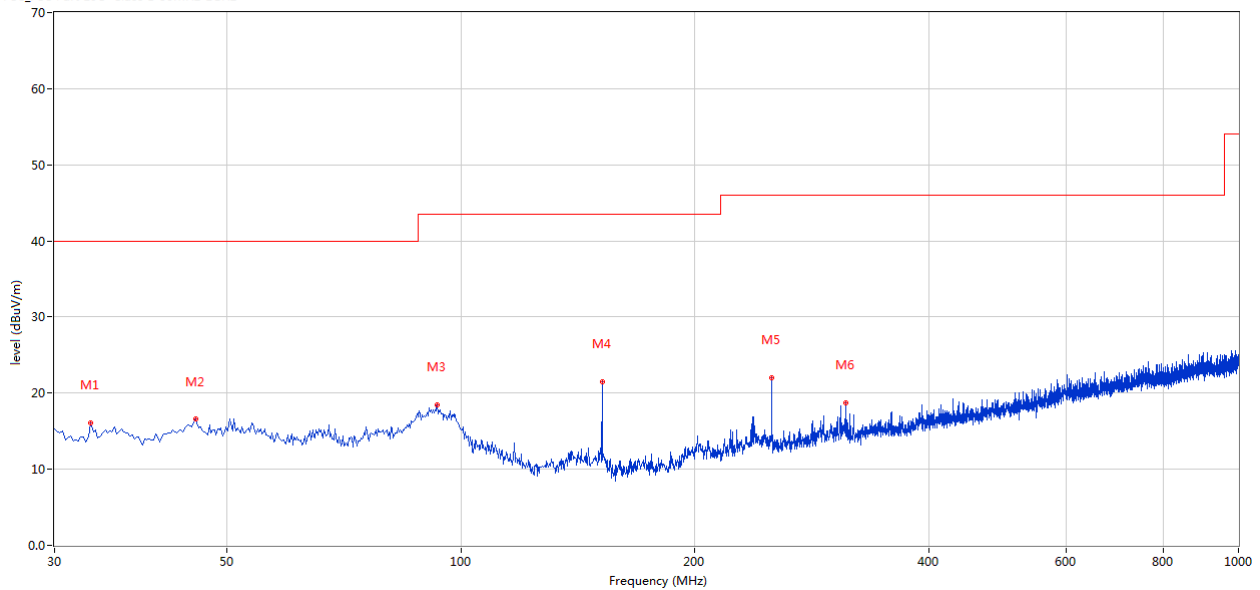
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**B: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-09-07_16.52.13
EUT Name:	52'SAVANNAH(was Wheaton)52027/52029	Test Engineer:	Artorias
Manufacturer:	King of Fans,Inc.	Test Standard:	FCC PART 15B
Model:	52-WHEA	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	33.394	16.14	-14.35	40.0	-23.86	Peak	136.00	100	Vertical	Pass
2	45.516	16.55	-11.39	40.0	-23.45	Peak	254.00	100	Vertical	Pass
3	93.277	18.51	-14.43	43.5	-24.99	Peak	336.00	100	Vertical	Pass
4	151.947	21.50	-16.93	43.5	-22.00	Peak	31.00	100	Vertical	Pass
5	250.862	22.05	-12.04	46.0	-23.95	Peak	102.00	200	Vertical	Pass
6	312.927	18.76	-10.81	46.0	-27.24	Peak	67.00	200	Vertical	Pass

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

**EUT Operating Environment**

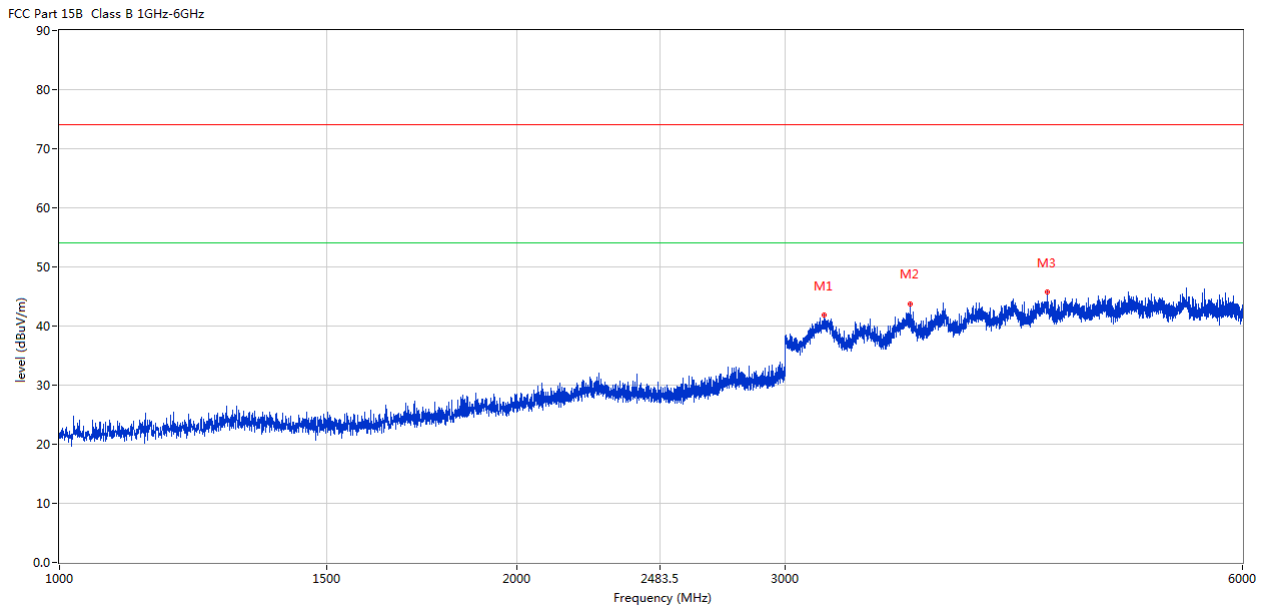
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Receiving Mode**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	3186.000	41.78	-2.00	74.0	-32.22	Peak	10.00	100	Horizontal	Pass
2	3629.250	43.74	-0.49	74.0	-30.26	Peak	11.00	100	Horizontal	Pass
3	4464.750	45.72	2.14	74.0	-28.28	Peak	9.00	100	Horizontal	Pass

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

**EUT Operating Environment**

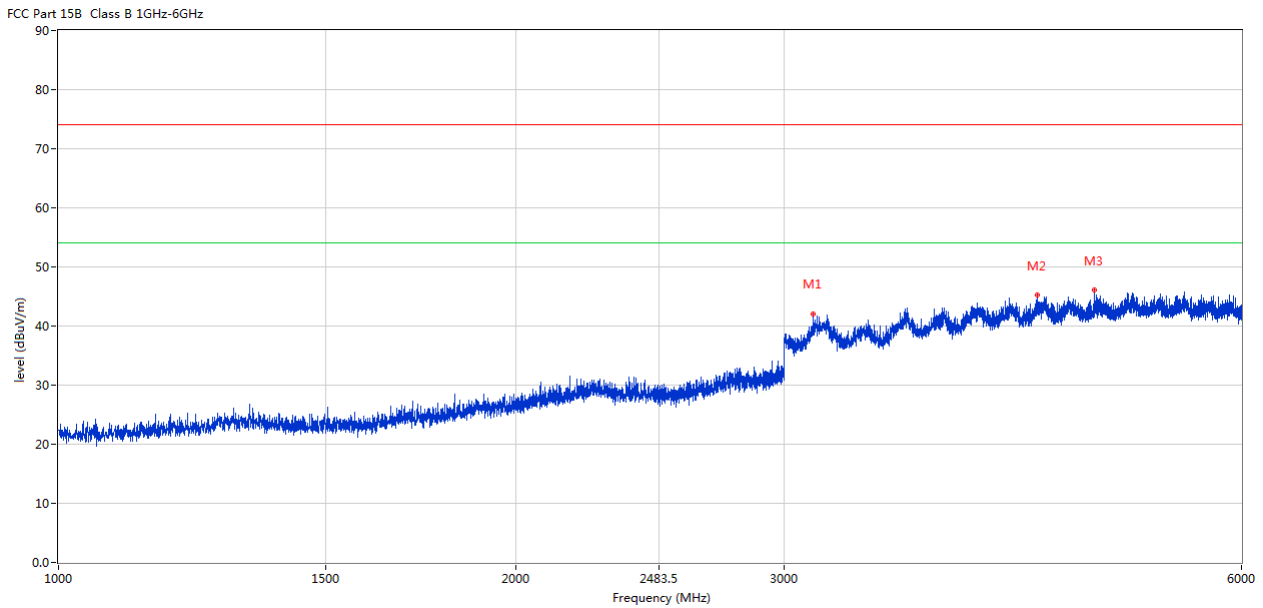
Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

**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	3135.000	42.04	-2.12	74.0	-31.96	Peak	9.00	100	Vertical	Pass
2	4407.000	45.22	2.01	74.0	-28.78	Peak	0.00	100	Vertical	Pass
3	4803.750	46.10	3.13	74.0	-27.90	Peak	1.00	100	Vertical	Pass

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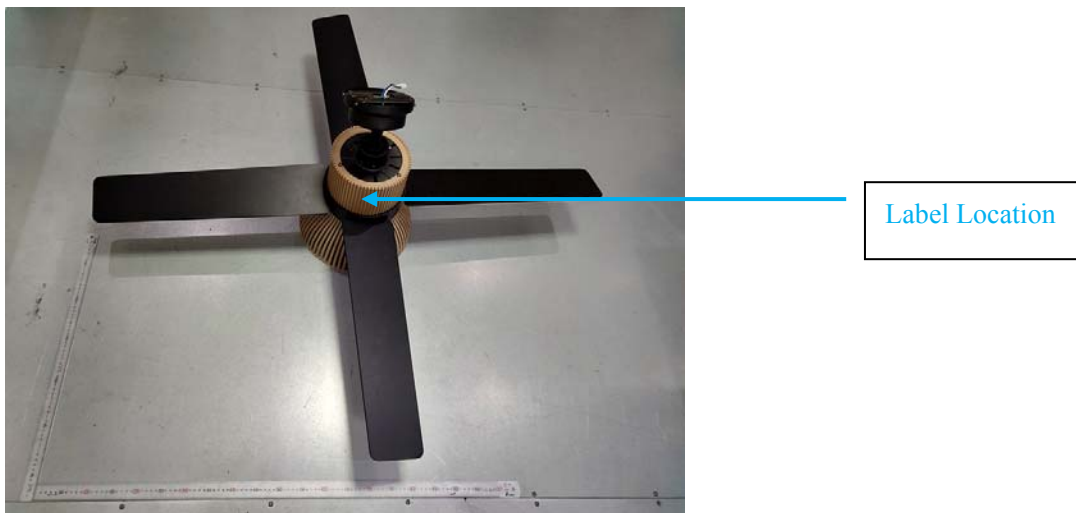


## 6.0 FCC Label

### FCC ID: RGB-52WHEAD

**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

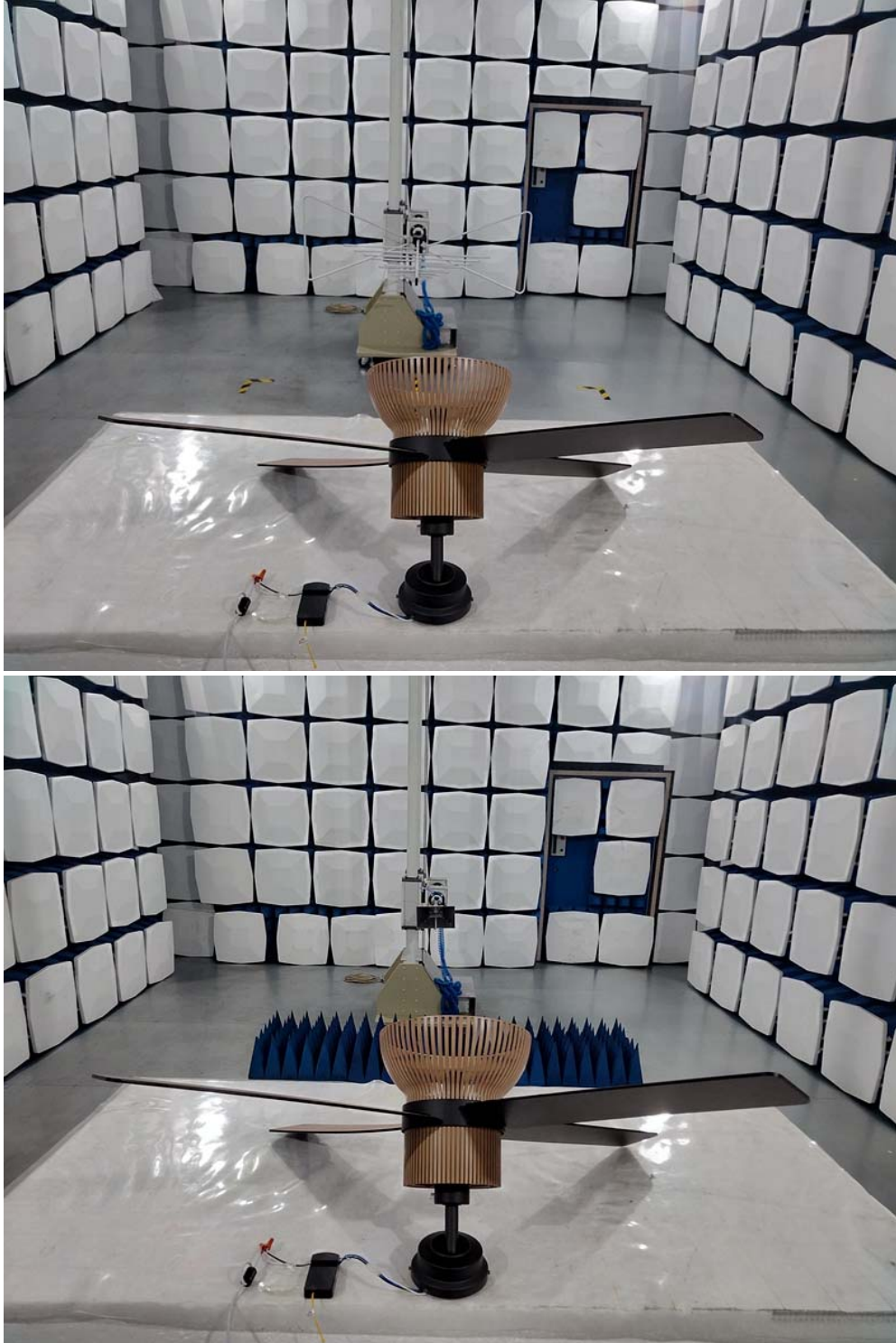
### Conducted Emissions



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### Radiated Emissions



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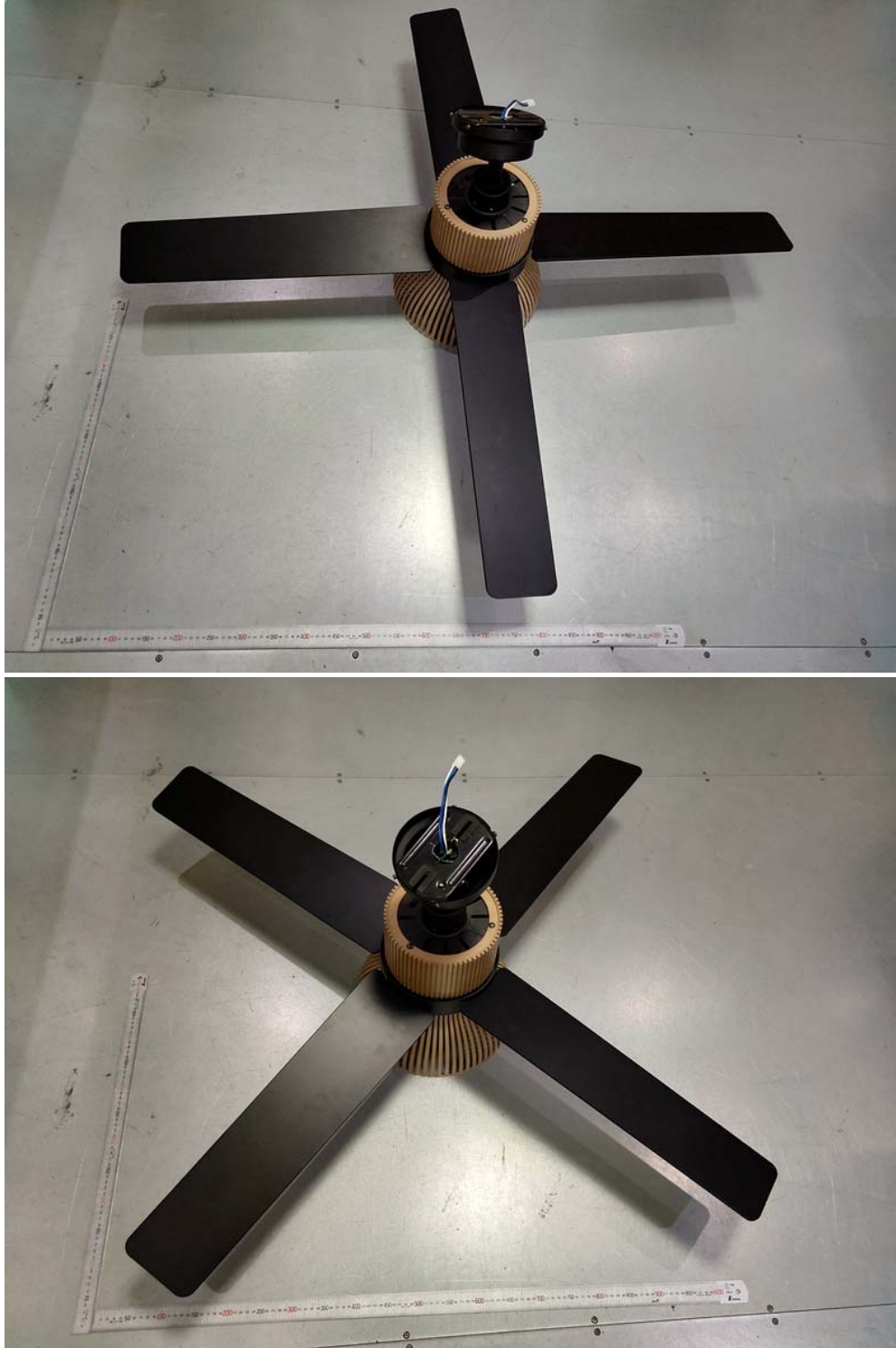
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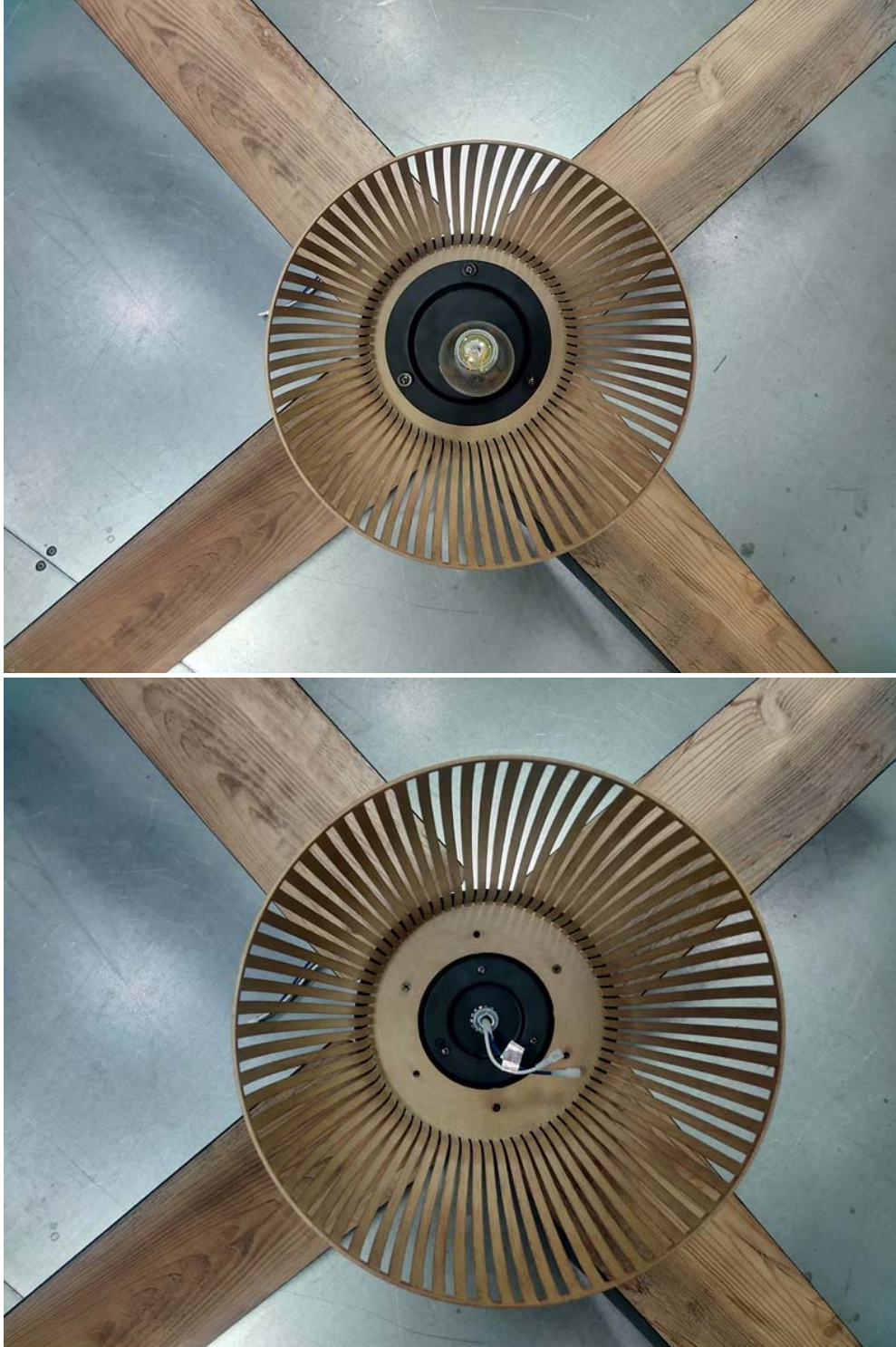


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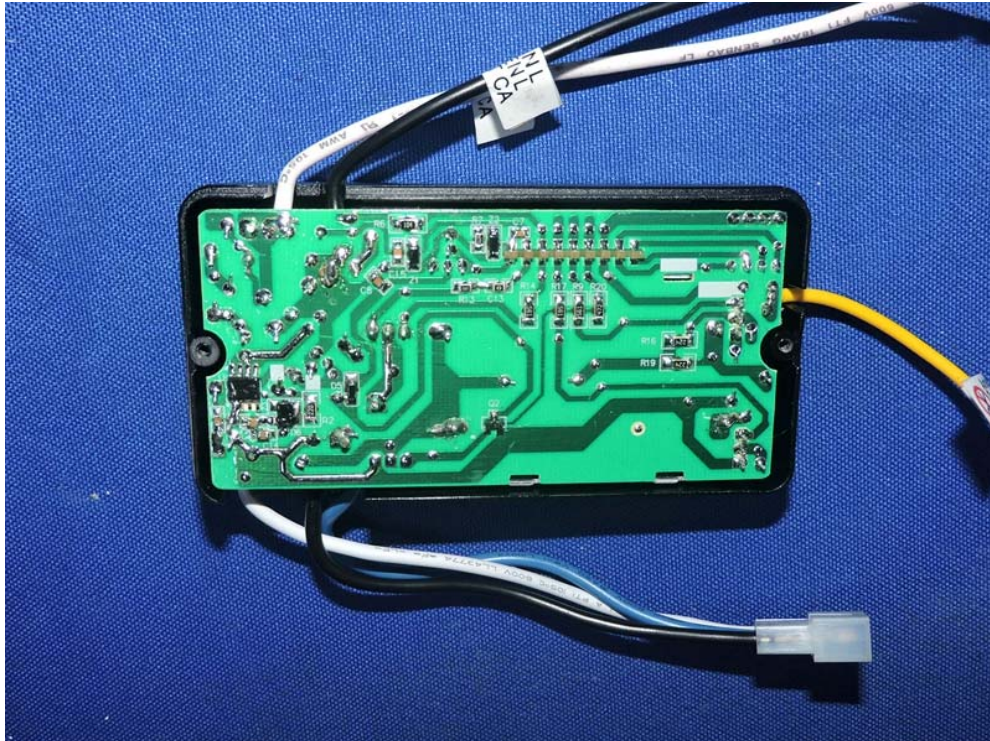
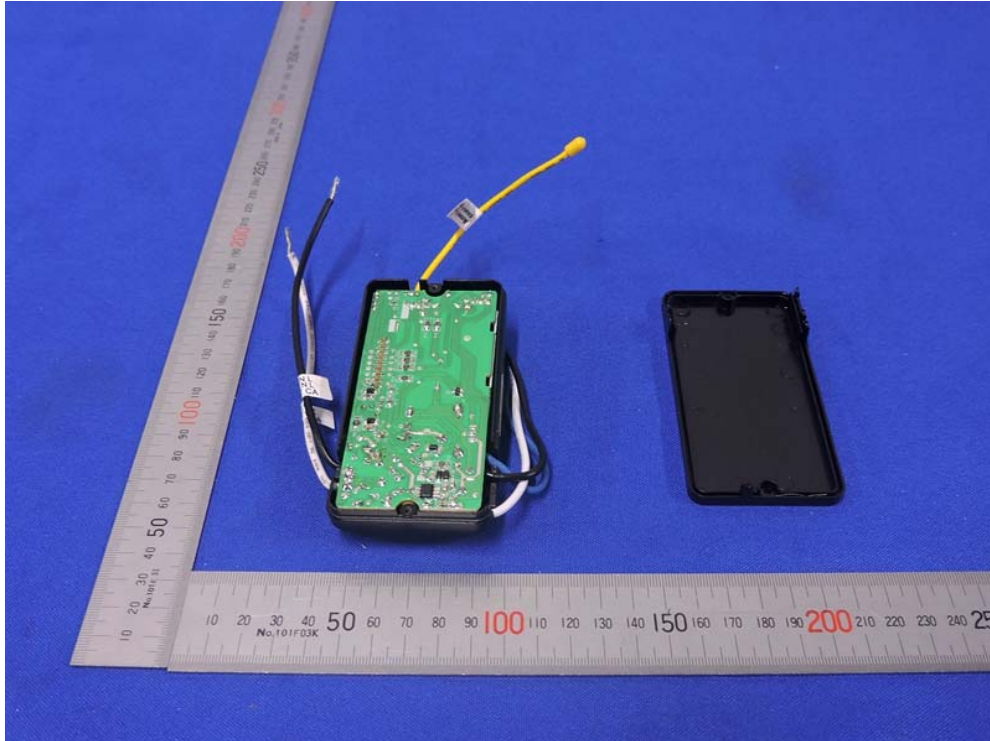


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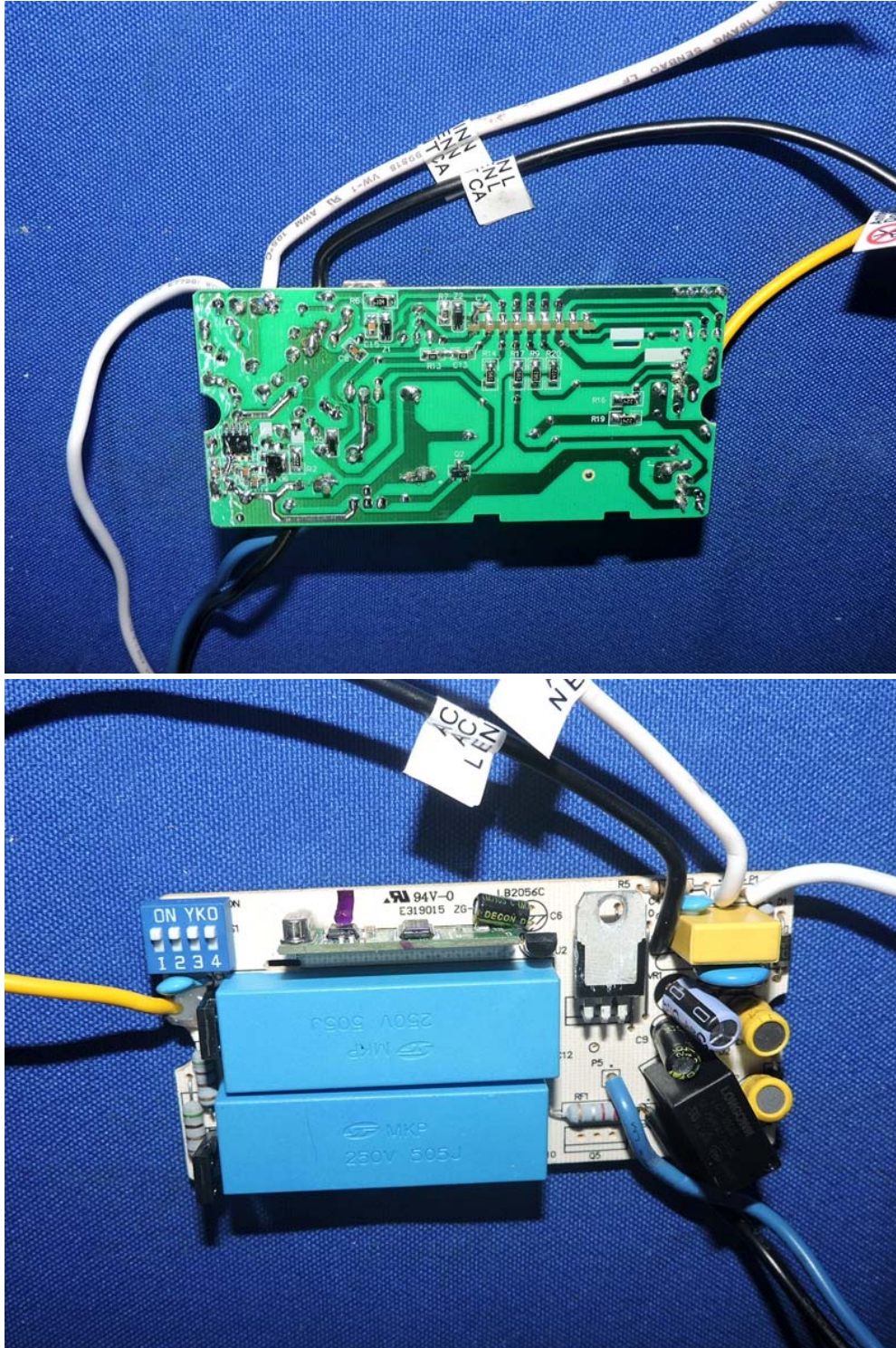
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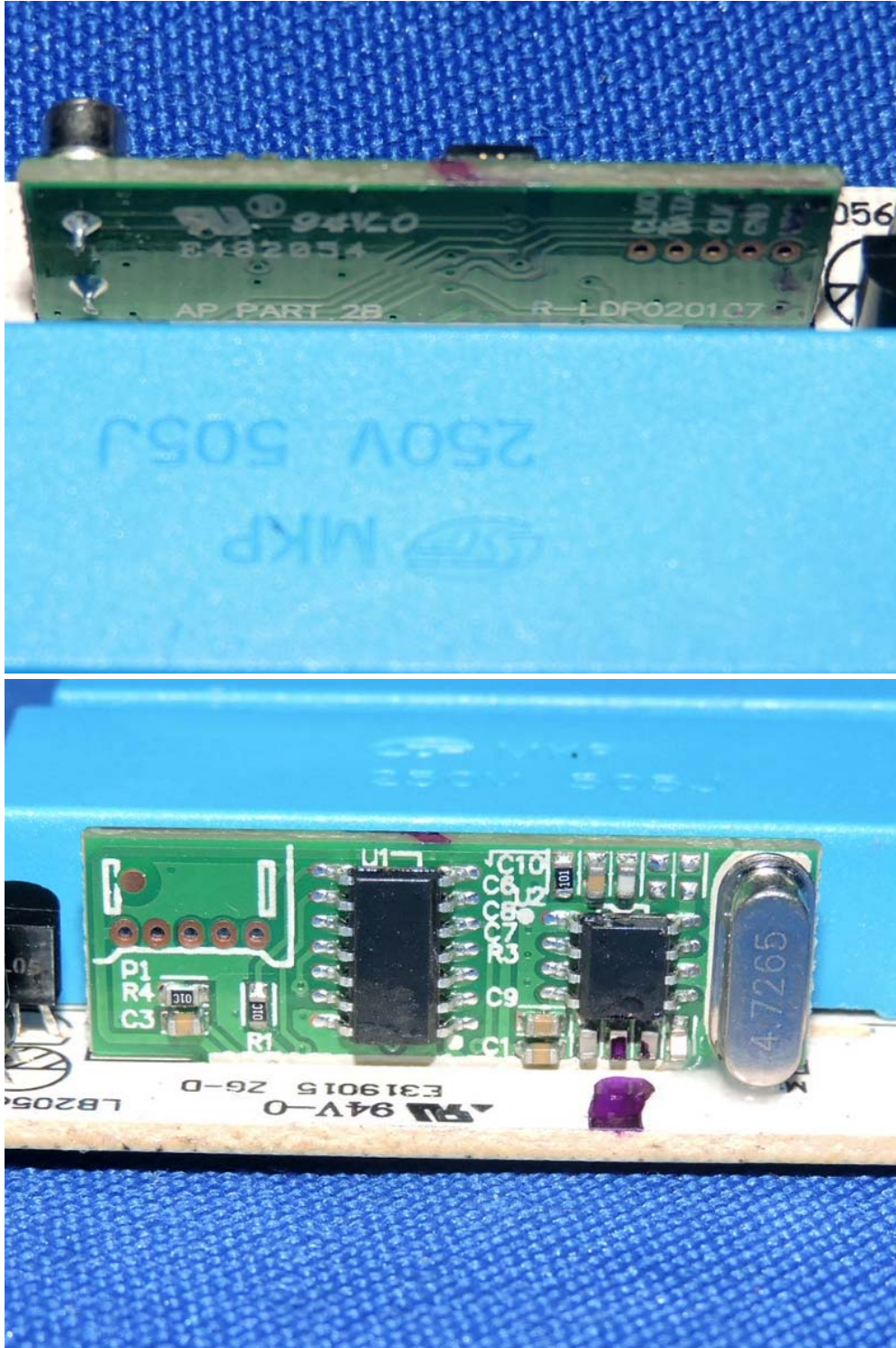
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**End of The Report**

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