

TECHNICAL REPORT



Report No.: FCC1903105
File reference No.: 2019-03-21

Applicant: King of Fans, Inc.

Product: 52" Windward IV

Model No: 52-WWDIV

Trademark: Home Decorators Collection, Hampton Bay

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: March 21, 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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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: 52” Windward IV
Manufacturer: Chienlun Industries (zhongshan) Ltd..
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451
Trademark: Home Decorators Collection, Hampton Bay
Model Number: 52-WWDIV
Rating: Input 120V, 60Hz, w/o light: 0.5A, w/light: 1.5A, w/o light: 60W, w/light: 180W
Rx Frequency: 304MHz

1.4 Submitted Sample: 1 Samples

1.5 Test Duration: 2019-03-14 to 2019-03-21

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 | 2018.06.22 | 1Year |
| Spectrum Analyzer | ESA-L1500A | US37451154 | HP | 2018.06.22 | 1Year |
| PULSE LIMITER | ESH3-Z2 | 100281 | RS | 2018.06.22 | 1Year |
| LISN | ESH3-Z5 | 100294 | RS | 2018.06.22 | 1Year |
| LISN | ESH3-Z5 | 100253 | RS | 2018.06.22 | 1Year |
| LISN | NNB42 | 00012 | SCHAFFNER | 2019-01-08 | 1Year |

2.2 Radiated electromagnetic disturbance test

| Name | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------|------------|------------|--------------|------------------|-------------------|
| EMI Test Receiver | ESPI 3 | 100379 | RS | 2018.06.22 | 1Year |
| Amplifier | BBV9743 | #218 | Schwarzbeck | 2018.06.22 | 1Year |
| Amplifier | 8449B | 3008A00160 | HP | 2018.06.25 | 1Year |
| Bilog Antenna | VULB9163 | 1139 | Schwarzbeck | 2018.07.04 | 1Year |
| Horn Antenna | BBHA 9120D | 9120D-631 | RS | 2018.07.09 | 1Year |
| Spectrum | E4407B | MY50441392 | Agilent | 2018.03.27 | 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

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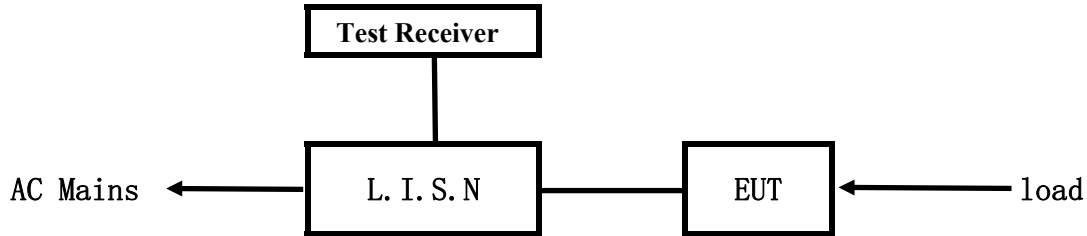
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4.0 Conducted Power line Test

4.1 Schematics of the test



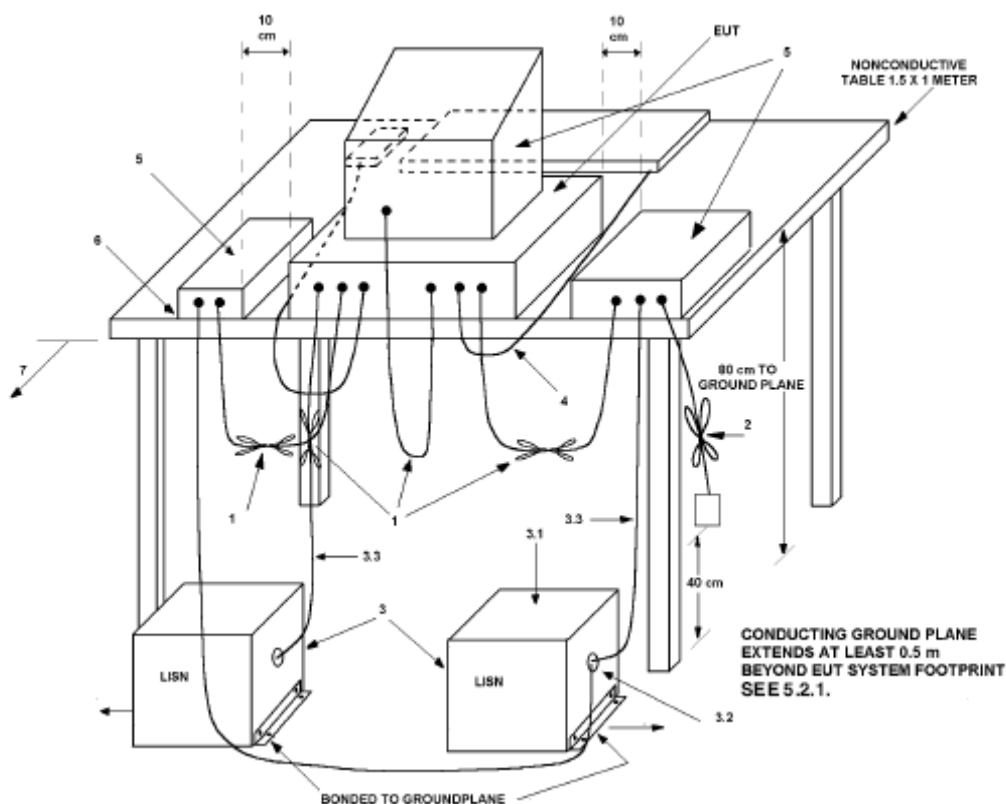
EUT: Equipment Under Test

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(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 ~ 5.00 | 79.00 | 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.

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

EUT Operating Environment

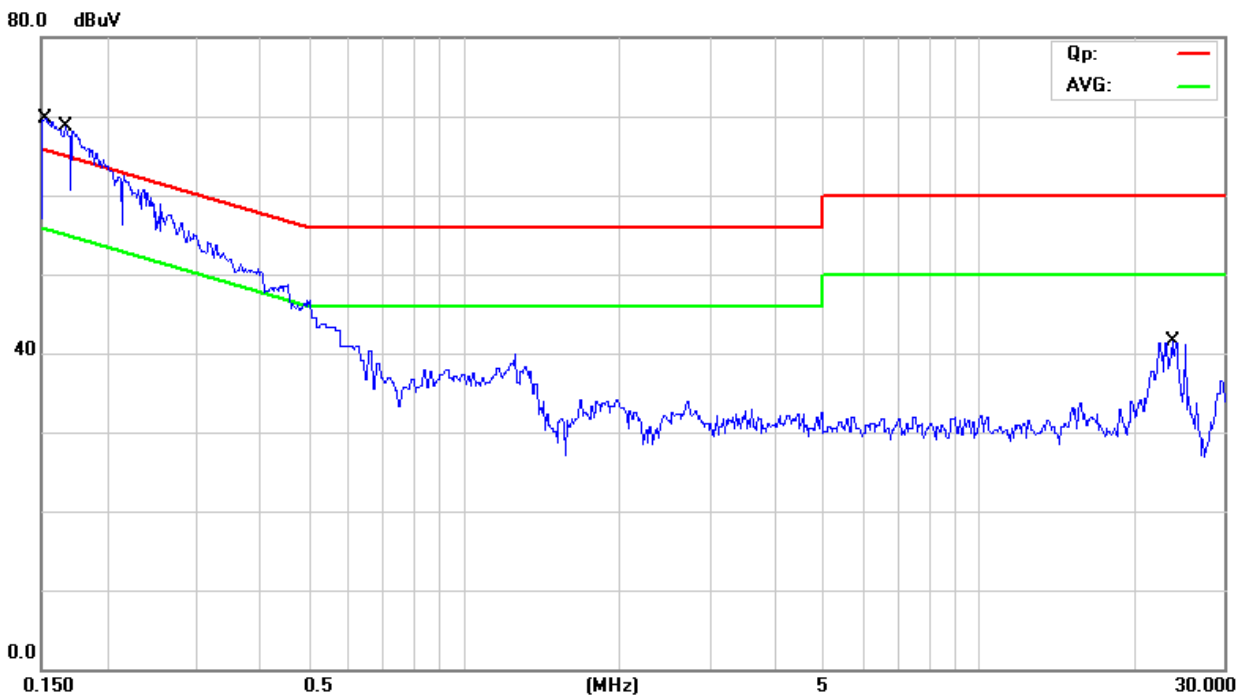
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1522 | 51.00 | 9.78 | 60.78 | 65.88 | -5.10 | QP | |
| 2 | | 0.1522 | 18.10 | 9.78 | 27.88 | 55.88 | -28.00 | AVG | |
| 3 | | 0.1701 | 48.60 | 9.77 | 58.37 | 64.96 | -6.59 | QP | |
| 4 | | 0.1701 | 24.30 | 9.77 | 34.07 | 54.96 | -20.89 | AVG | |
| 5 | | 23.6906 | 26.80 | 10.91 | 37.71 | 60.00 | -22.29 | QP | |
| 6 | | 23.6906 | 1.50 | 10.91 | 12.41 | 50.00 | -37.59 | AVG | |

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

EUT Operating Environment

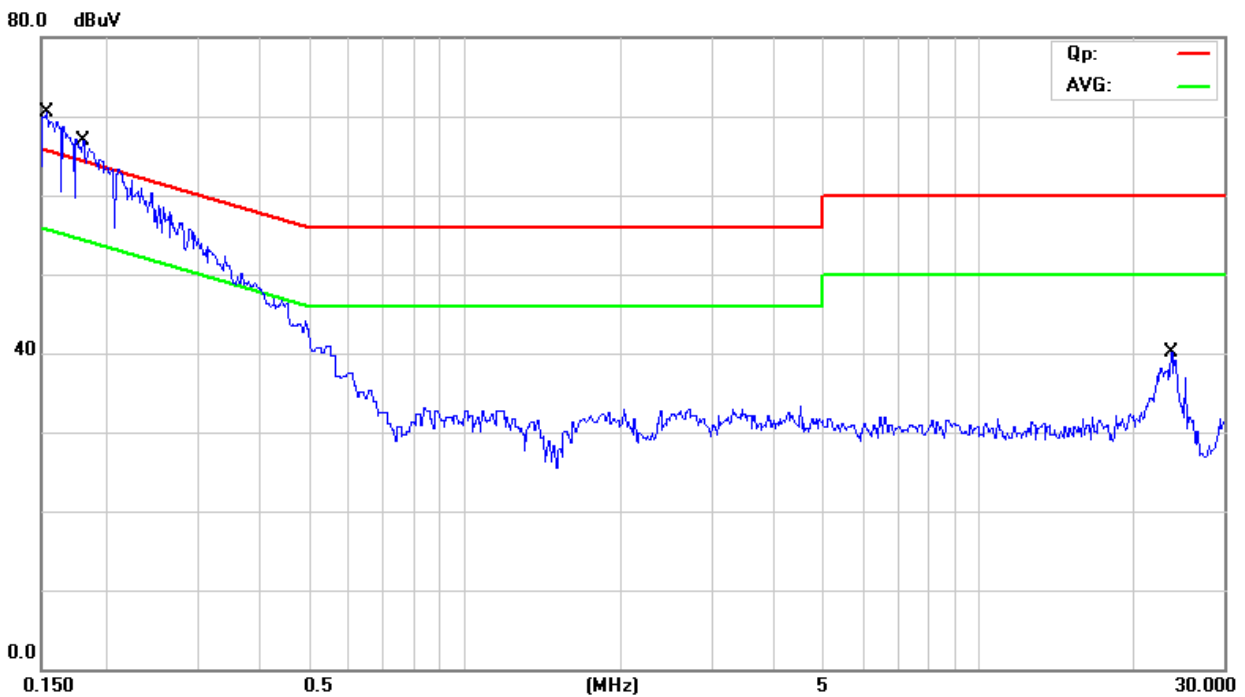
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | | |
| 1 | * | 0.1504 | 51.40 | 9.78 | 61.18 | 65.98 | -4.80 | QP | |
| 2 | | 0.1504 | 27.00 | 9.78 | 36.78 | 55.98 | -19.20 | AVG | |
| 3 | | 0.1785 | 47.70 | 9.77 | 57.47 | 64.56 | -7.09 | QP | |
| 4 | | 0.1785 | 17.00 | 9.77 | 26.77 | 54.56 | -27.79 | AVG | |
| 5 | | 23.5914 | 27.00 | 10.90 | 37.90 | 60.00 | -22.10 | QP | |
| 6 | | 23.5914 | 0.30 | 10.90 | 11.20 | 50.00 | -38.80 | AVG | |

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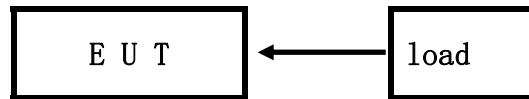
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

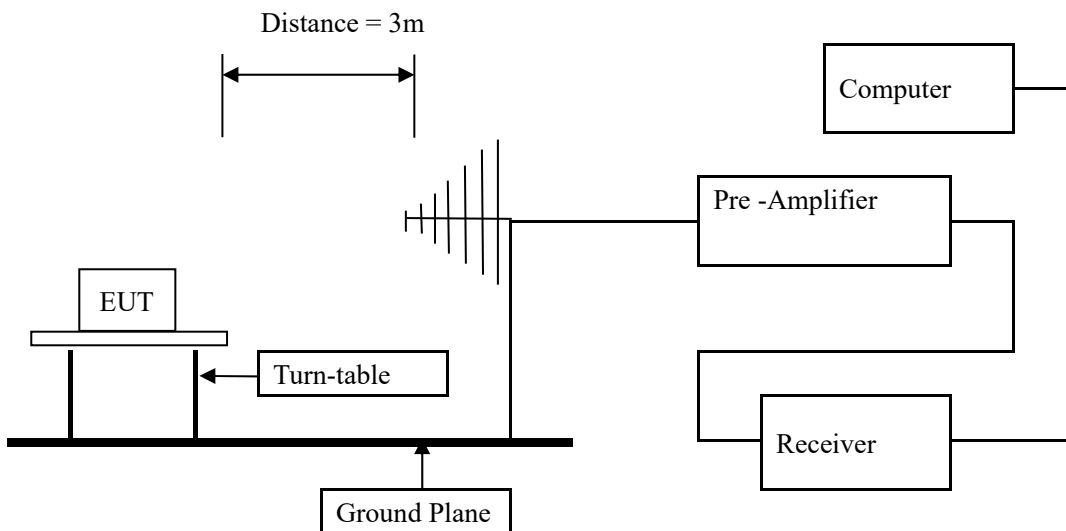


5.2 Test Method and test Procedure:

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

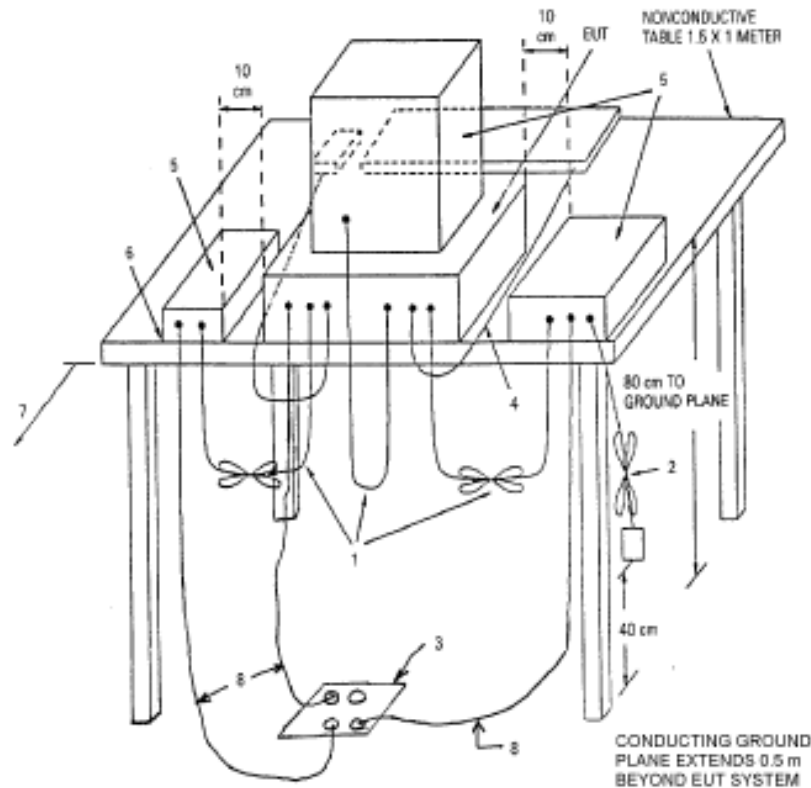
Block diagram of Test setup



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5.3 Radiated Emission Limit

| Frequency Range (MHz) | Distance (m) | Field strength (dB 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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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

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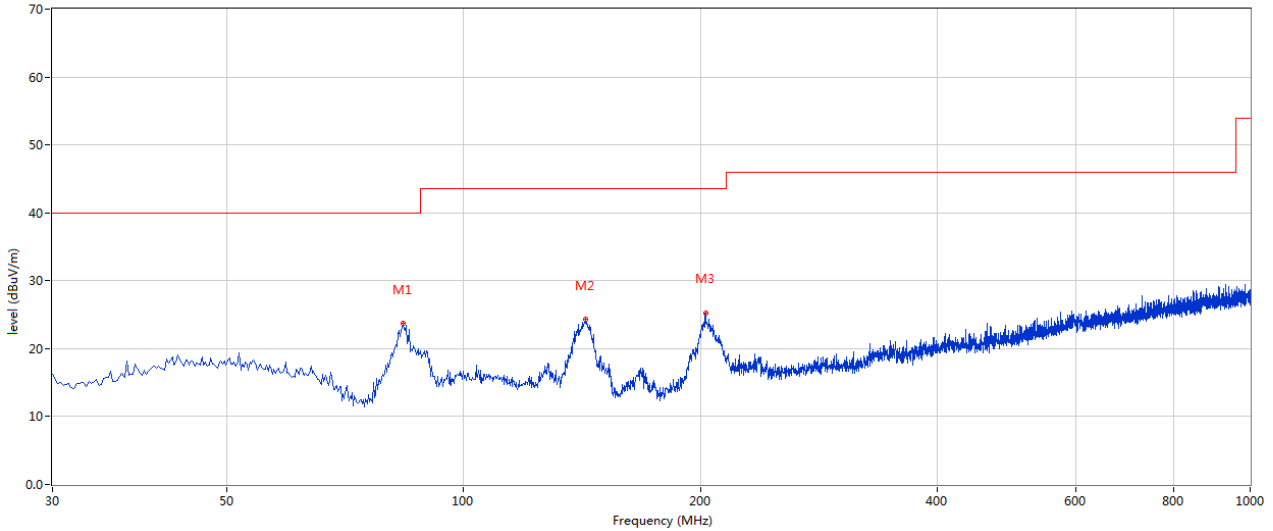
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Test Figure:

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 | 83.822 | 23.74 | -16.78 | 40.0 | -16.26 | Peak | 0.00 | 200 | H | Pass |
| 2 | 142.734 | 24.29 | -17.30 | 43.5 | -19.21 | Peak | 0.00 | 200 | H | Pass |
| 3 | 203.102 | 25.28 | -13.44 | 43.5 | -18.22 | Peak | 324.00 | 200 | H | Pass |

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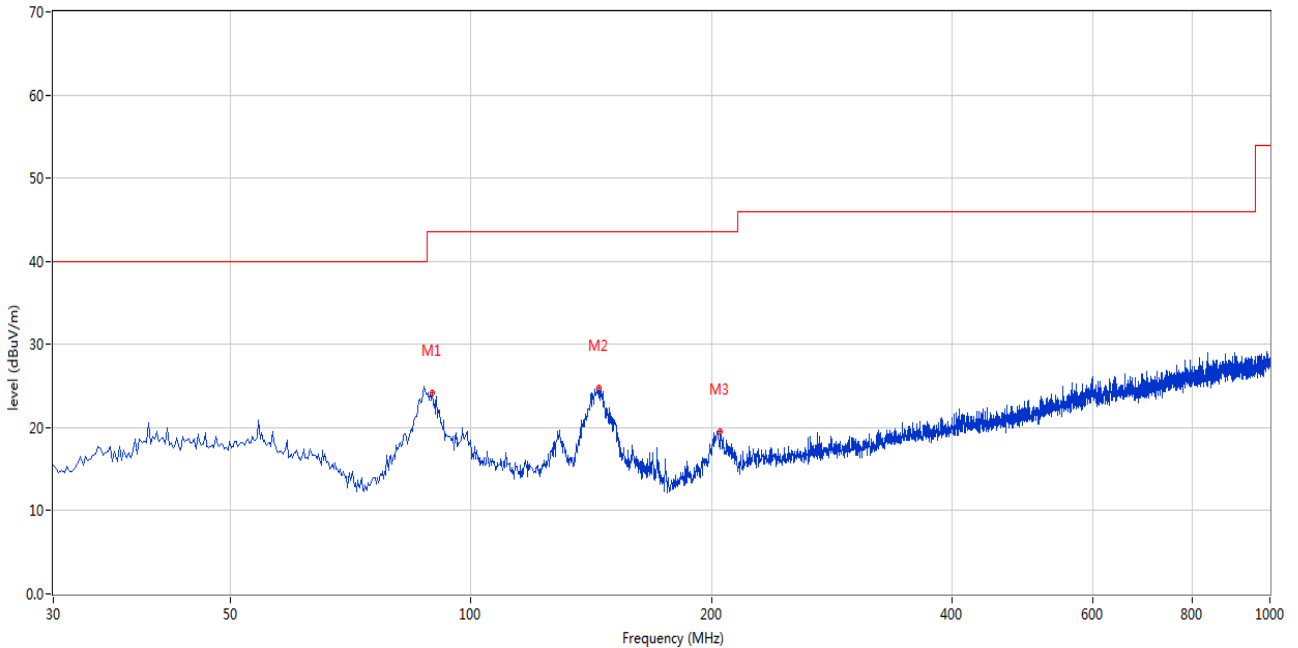
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Test Figure:

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 | 89.398 | 24.22 | -15.32 | 43.5 | -19.28 | Peak | 319.00 | 100 | V | Pass |
| 2 | 144.431 | 24.84 | -17.14 | 43.5 | -18.66 | Peak | 173.00 | 100 | V | Pass |
| 3 | 205.041 | 19.59 | -13.59 | 43.5 | -23.91 | Peak | 87.00 | 200 | V | Pass |

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

EUT Operating Environment

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

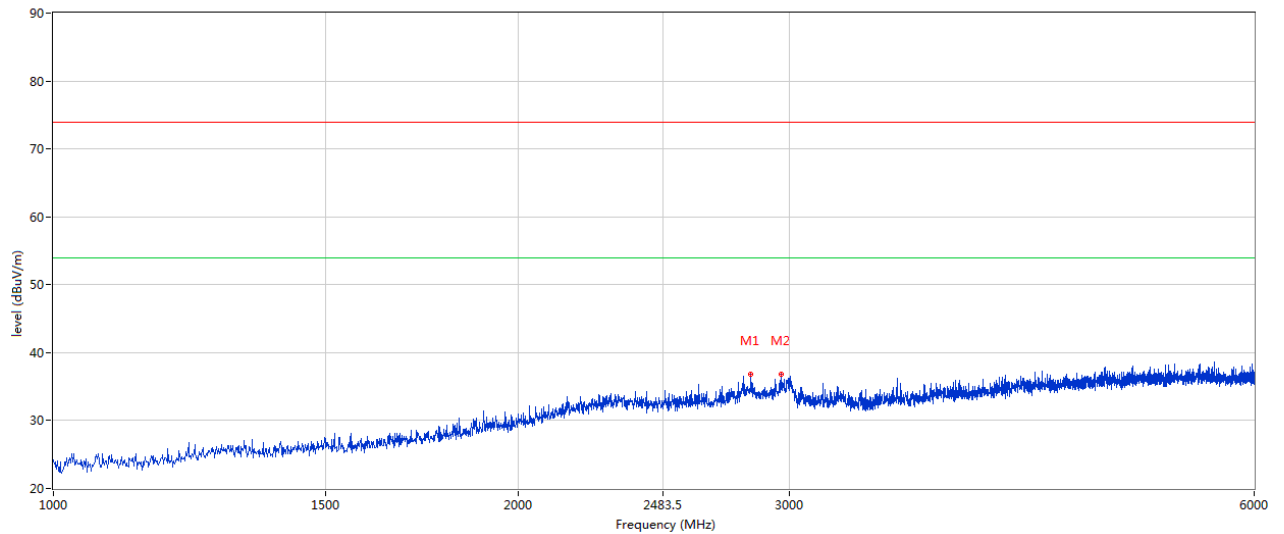
EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15B Class B 1GHz-18GHz - 2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2829.543 | 36.76 | -2.69 | 74.0 | -37.24 | Peak | 202.00 | 100 | H | Pass |
| 2 | 2960.760 | 36.84 | -2.65 | 74.0 | -37.16 | Peak | 220.00 | 100 | H | Pass |

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

EUT Operating Environment

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

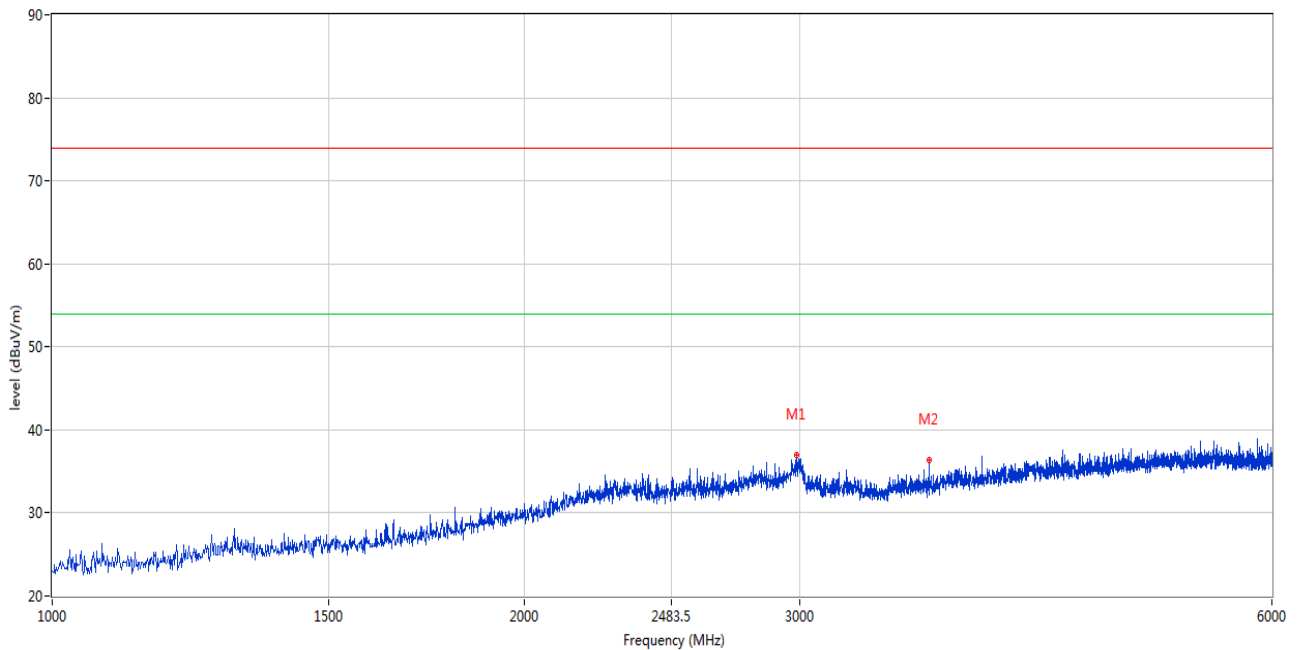
EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15B Class B 1GHz-18GHz - 2



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2984.504 | 36.90 | -2.65 | 74.0 | -37.10 | Peak | 140.00 | 100 | V | Pass |
| 2 | 3626.843 | 36.30 | -0.50 | 74.0 | -37.70 | Peak | 113.00 | 100 | V | Pass |

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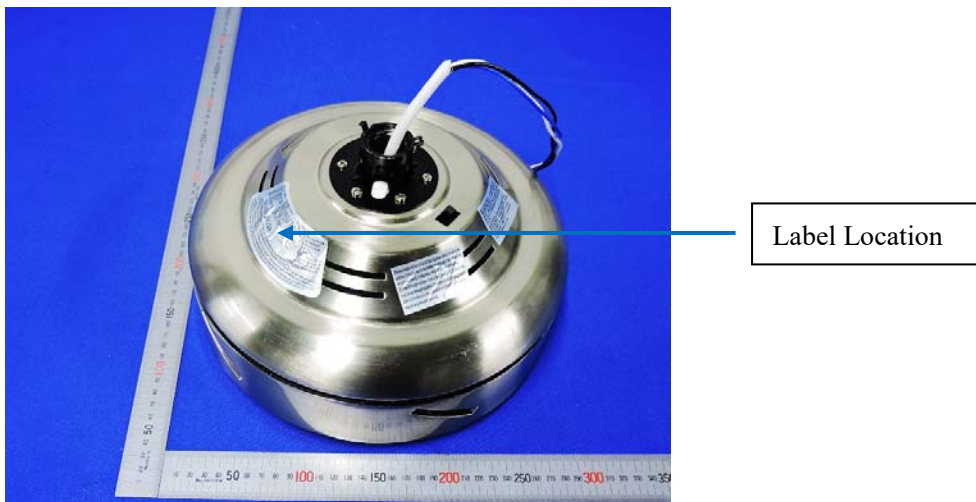


6.0 FCC Label

FCC ID: RGB-52WWDIVD

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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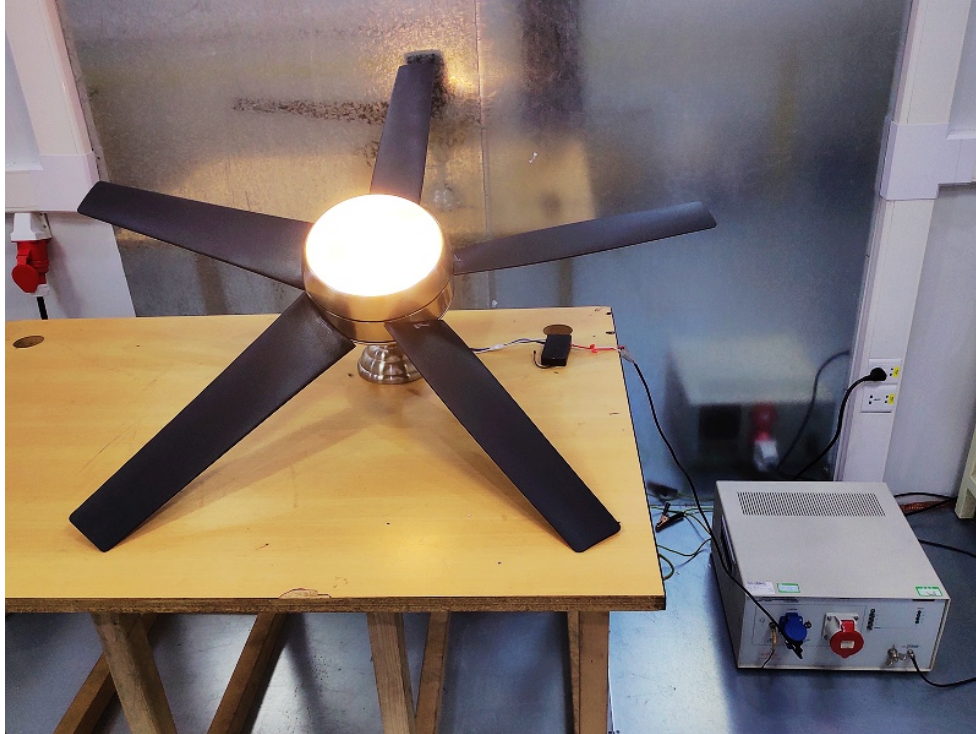
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7.0 Photo of testing

7.1 Conducted test View--



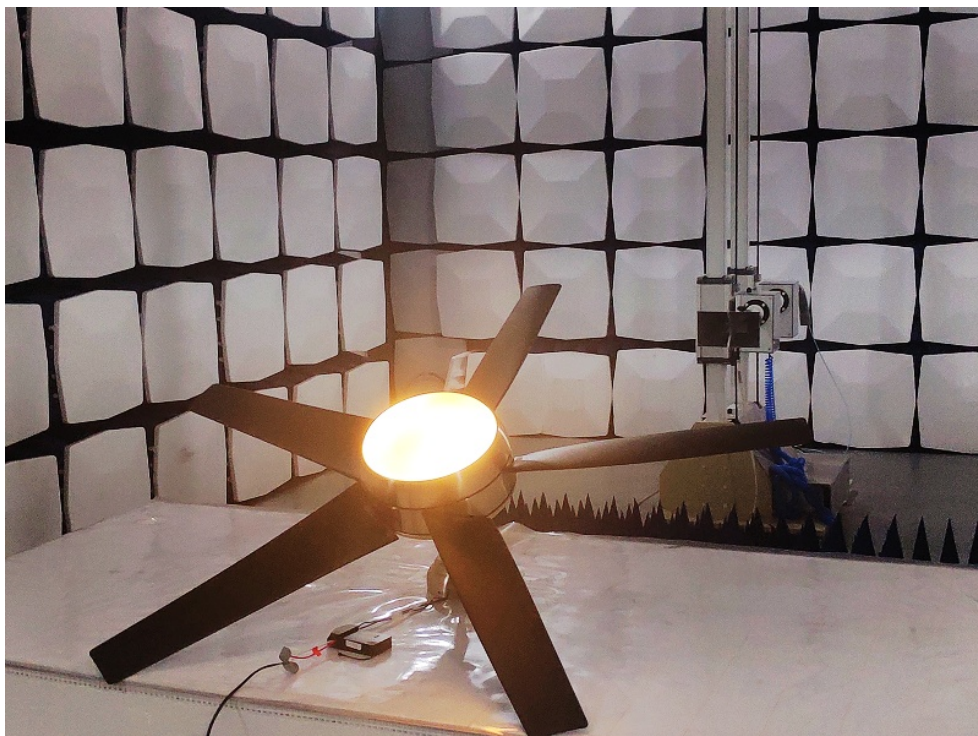
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7.2 Radiated emission test view--



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Photo for the EUT



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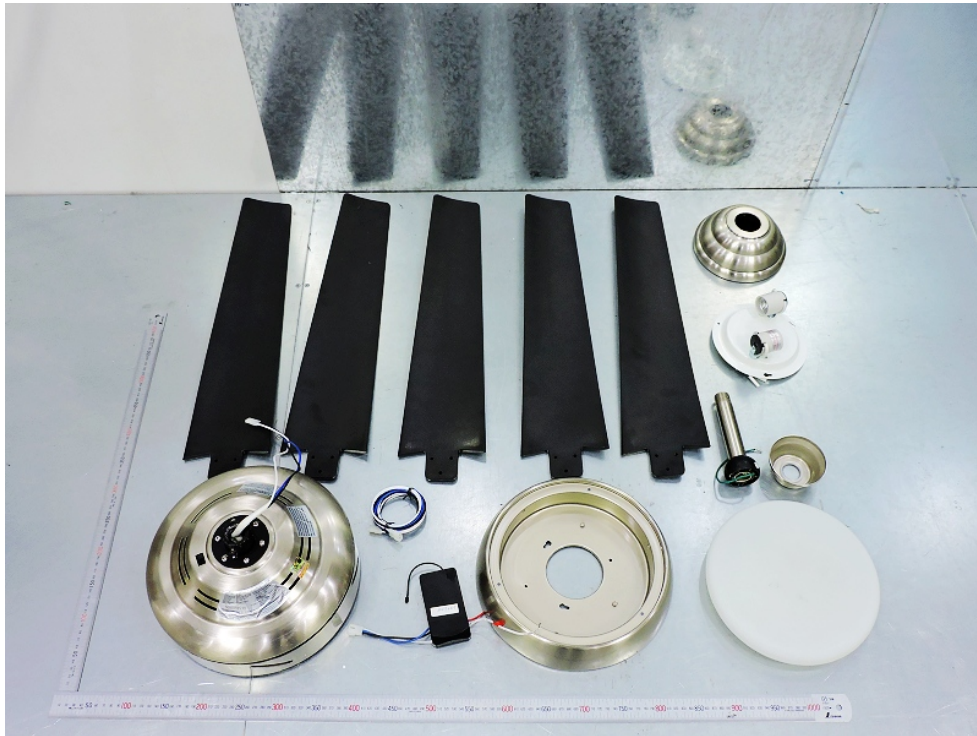
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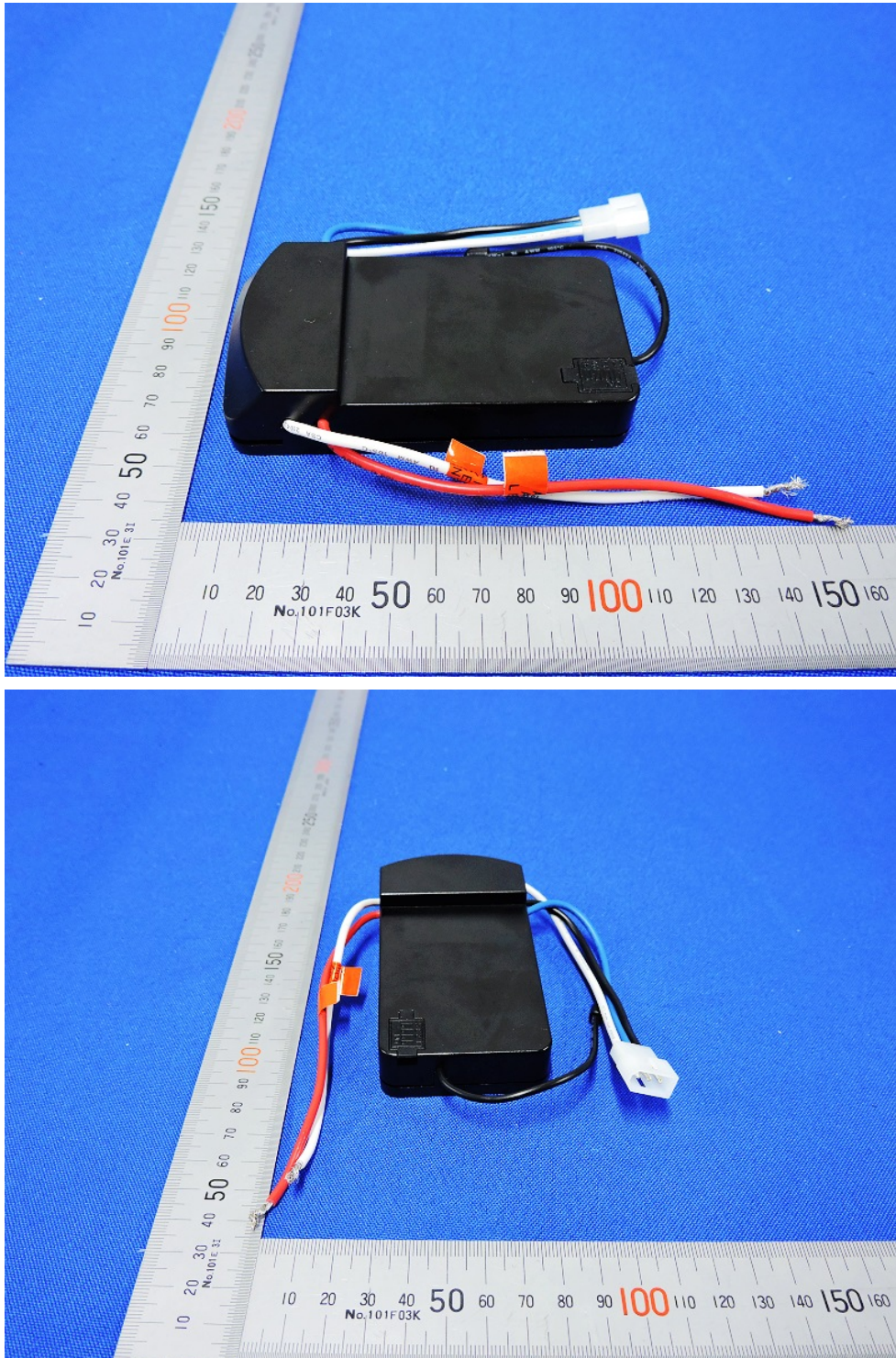
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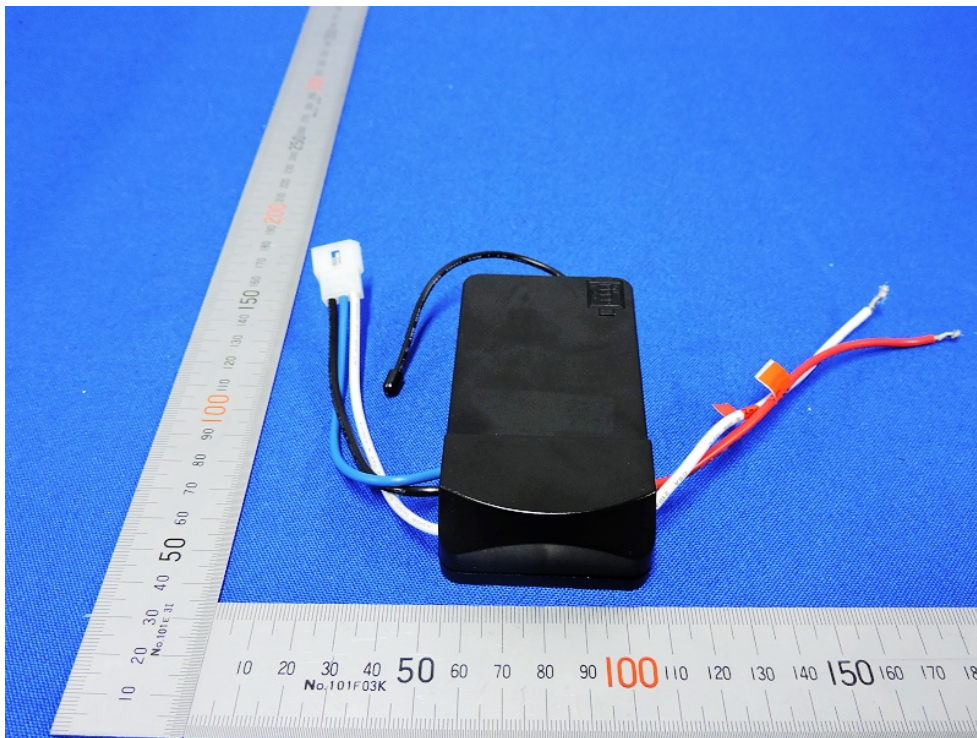
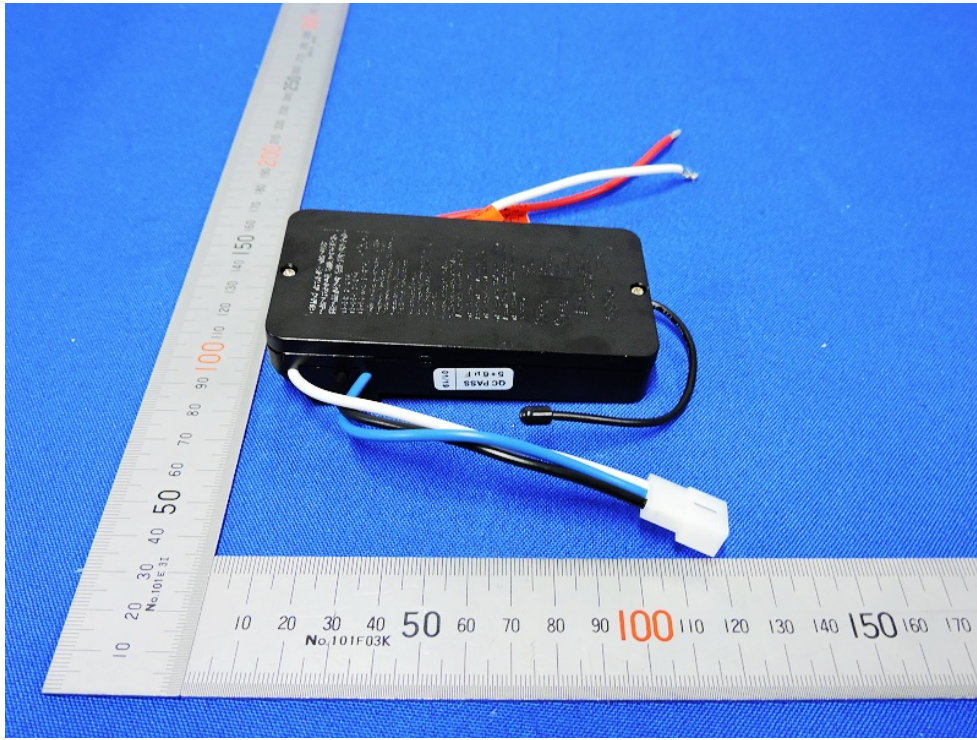


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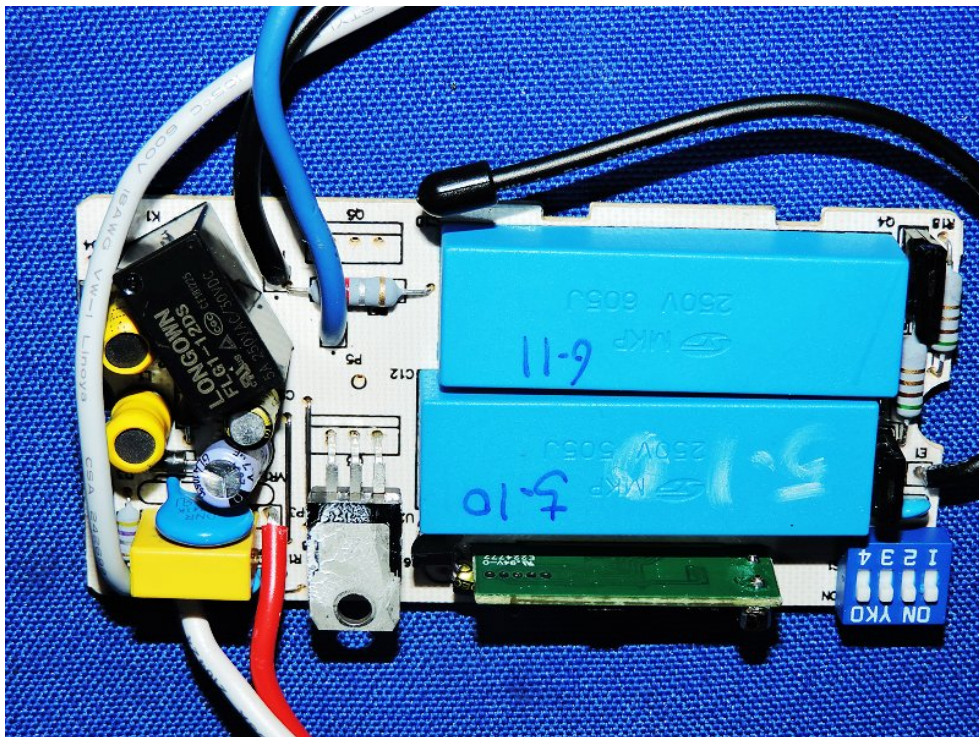
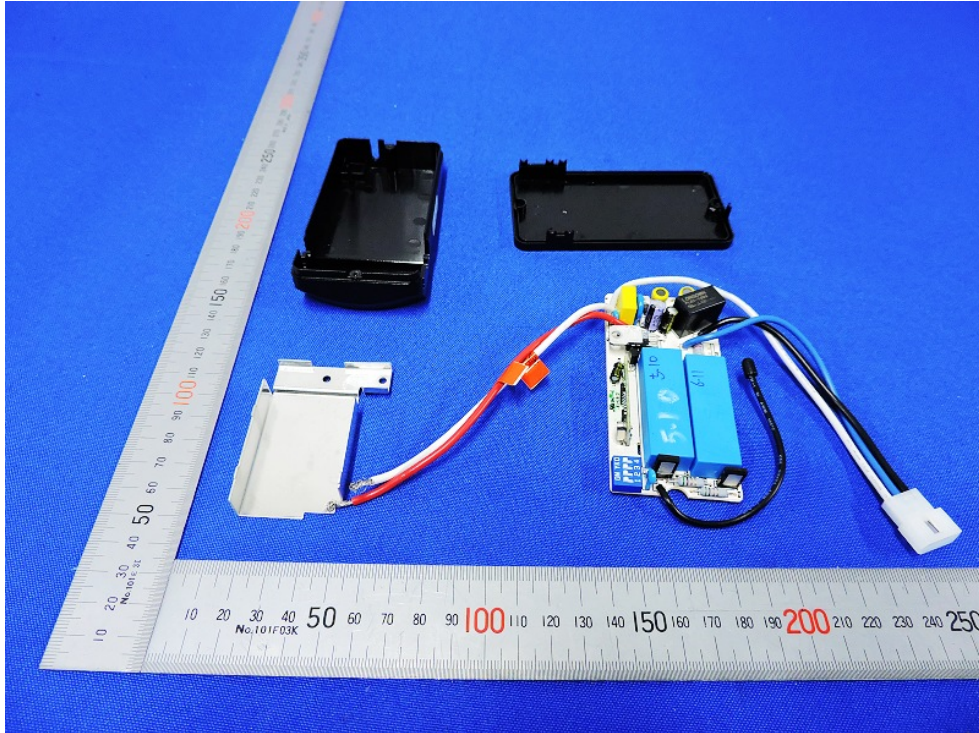


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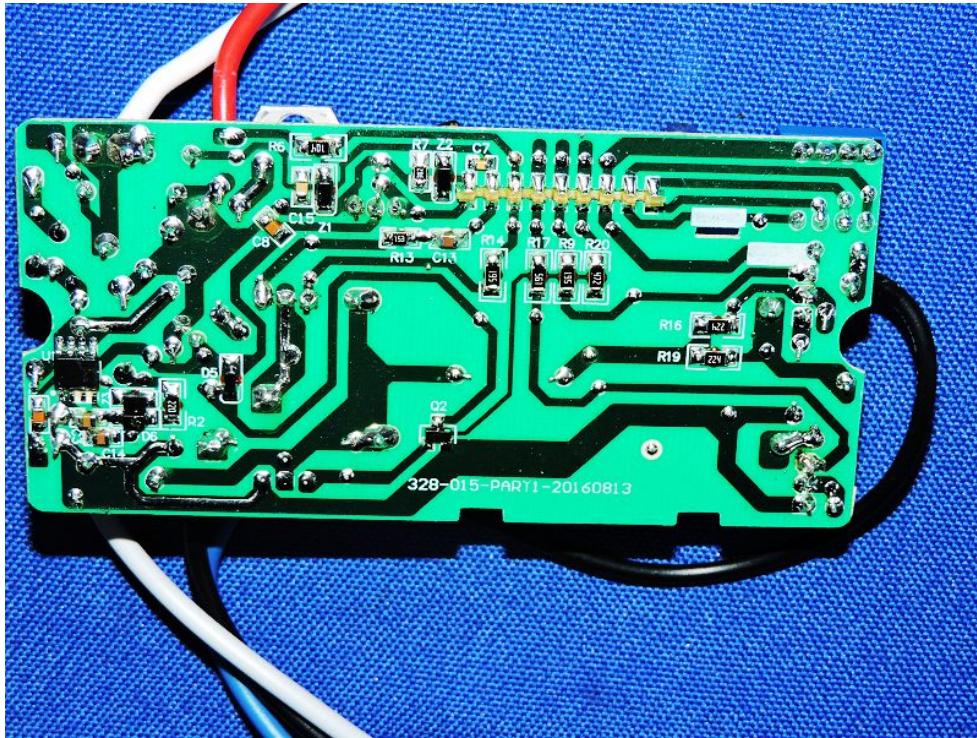


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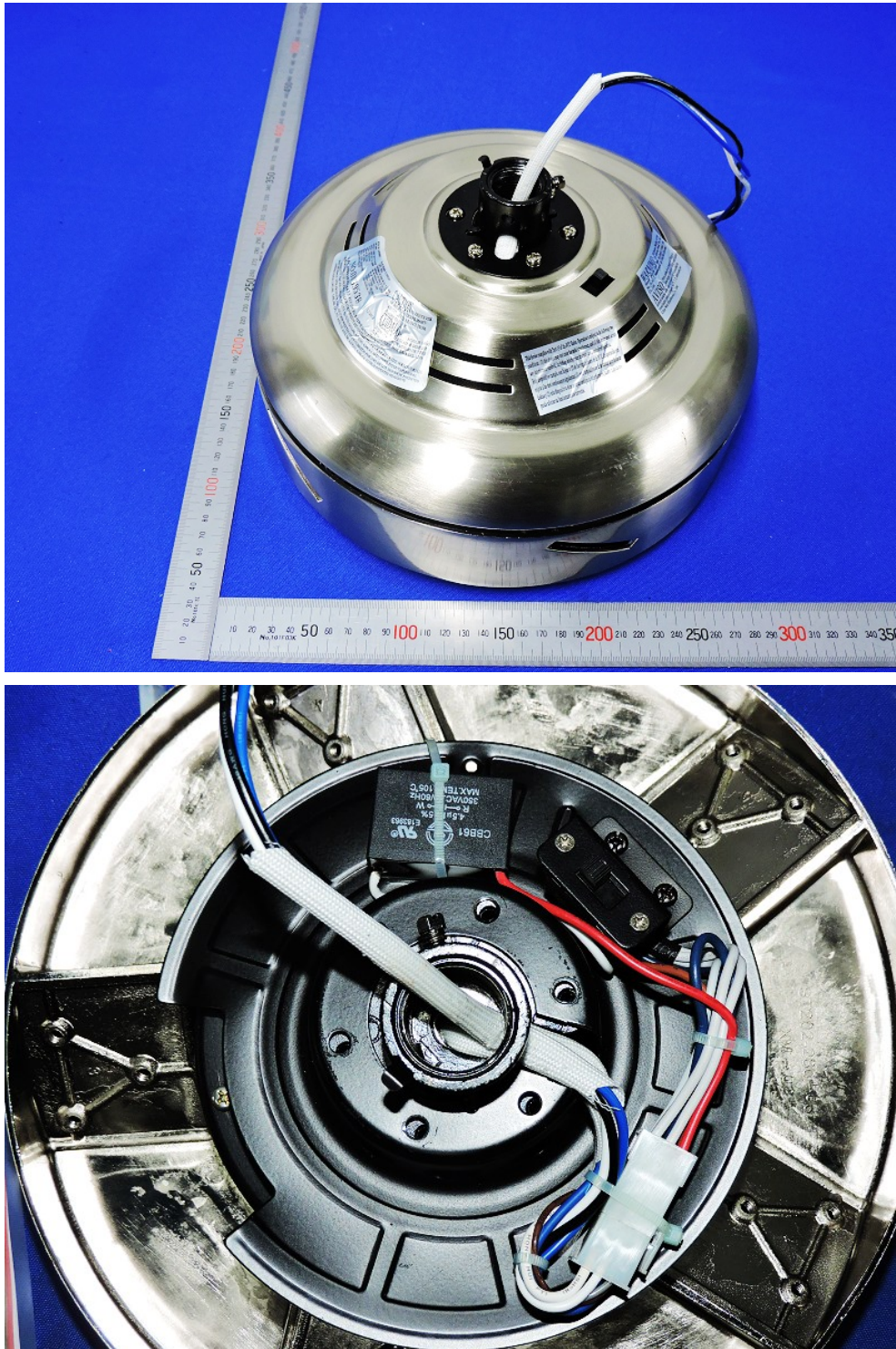


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-End of the report-

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