

TECHNICAL REPORT



Report No.: TW2009177E

File Reference No.: 2020-09-21

Applicant: King of Fans, Inc.

Product: 52"Hollis (was Sparrow) 52196/52197/52198

Brand Name: Home Decorators Collection

Model No.: 52-SPAR

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 Tong

Manager



Dated: September 21, 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



Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.4	Submitted Sample: 1 Sample	4
1.5	Test Duration	4
1.6	Test Uncertainty	4
1.7	Test Engineer	4
2.0	List of Measurement Equipment	5
2.1	Conducted Emission Test	5
2.2	Radiated electromagnetic disturbance test	5
2.3	Auxiliary Equipment	5
3.0	Technical Details	6
3.1	Investigations Requested	6
3.2	Test Standards	6
4.0	Conducted Power line Test	7
4.1	Schematics of the test	7
4.2	Test Method and test Procedure	7
4.3	Power line conducted Emission Limit	7
4.4	Test Results	7
6.0	FCC Label	16
7.0	Photo of testing	17
	Conducted Emissions	17

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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"Hollis (was Sparrow) 52196/52197/52198
Manufacturer: Chienluen Industries (zhongshan) Ltd..
Address: Da Che Industrial Area, Nanlang Town, Zhongshan, Guangdong China 528451
Brand Name: Home Decorators Collection
Model Number: 52-SPAR
Rating: Input: 120V~, 60Hz, FAN W/O Light Kit: 0.6A, 72W; FAN W/Light Kit: 1.8A, 232W
Rx Frequency: 304MHz

1.4 Submitted Sample: 1 Sample

1.5 Test Duration

Date of Receipt of Application: September 15, 2020
Date of Receipt of Test Item: September 15, 2020
Date of Test: September 15, 2020 ~ September 21, 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

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

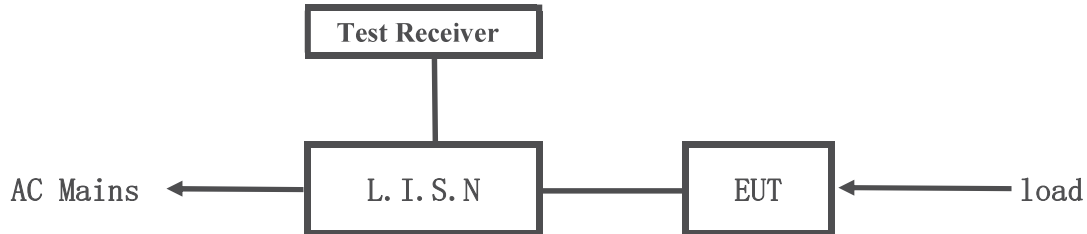
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4.0 Conducted Power line Test

4.1 Schematics of the test



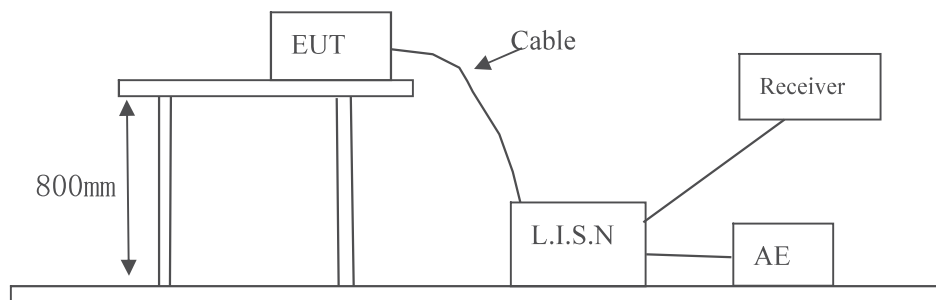
EUT: Equipment Under Test

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

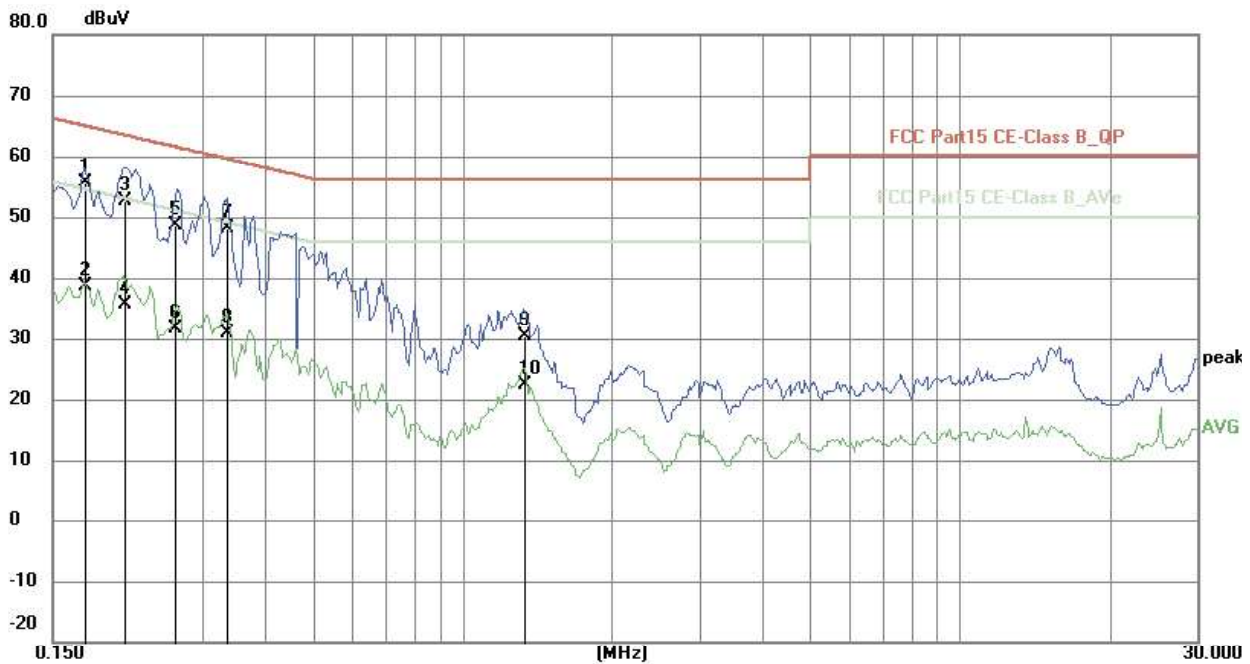
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

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	0.1734	45.96	9.77	55.73	64.80	-9.07	QP	P
2	0.1734	28.78	9.77	38.55	54.80	-16.25	AVG	P
3	0.2085	42.95	9.75	52.70	63.26	-10.56	QP	P
4	0.2085	25.83	9.75	35.58	53.26	-17.68	AVG	P
5	0.2644	38.80	9.75	48.55	61.29	-12.74	QP	P
6	0.2644	21.82	9.75	31.57	51.29	-19.72	AVG	P
7	0.3372	38.25	9.76	48.01	59.27	-11.26	QP	P
8	0.3372	21.03	9.76	30.79	49.27	-18.48	AVG	P
9	1.3239	20.53	9.79	30.32	56.00	-25.68	QP	P
10	1.3239	12.60	9.79	22.39	46.00	-23.61	AVG	P

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

EUT Operating Environment

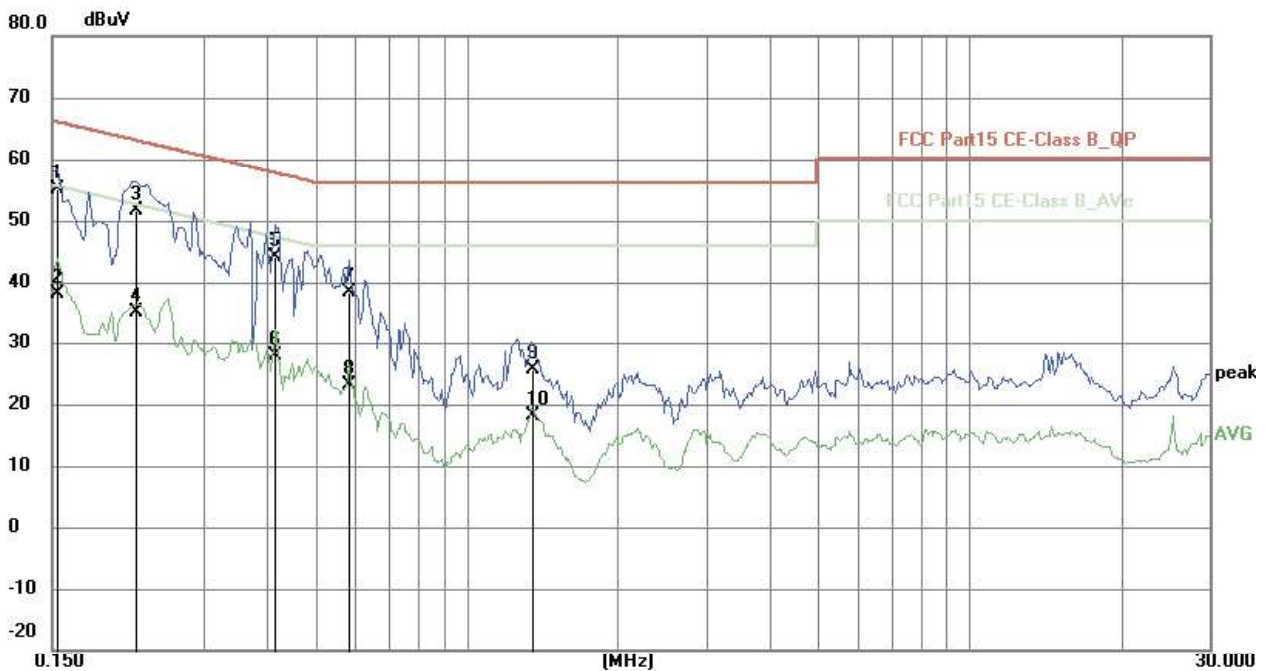
Temperature: 25°C Humidity:75%RH Atmospheric Pressure: 101 KPa

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	0.1539	45.42	9.78	55.20	65.79	-10.59	QP	P
2	0.1539	28.28	9.78	38.06	55.79	-17.73	AVG	P
3	0.2202	41.99	9.75	51.74	62.81	-11.07	QP	P
4	0.2202	25.47	9.75	35.22	52.81	-17.59	AVG	P
5	0.4152	34.43	9.76	44.19	57.54	-13.35	QP	P
6	0.4152	18.20	9.76	27.96	47.54	-19.58	AVG	P
7	0.5829	28.65	9.77	38.42	56.00	-17.58	QP	P
8	0.5829	13.39	9.77	23.16	46.00	-22.84	AVG	P
9	1.3473	15.80	9.79	25.59	56.00	-30.41	QP	P
10	1.3473	8.36	9.79	18.15	46.00	-27.85	AVG	P

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

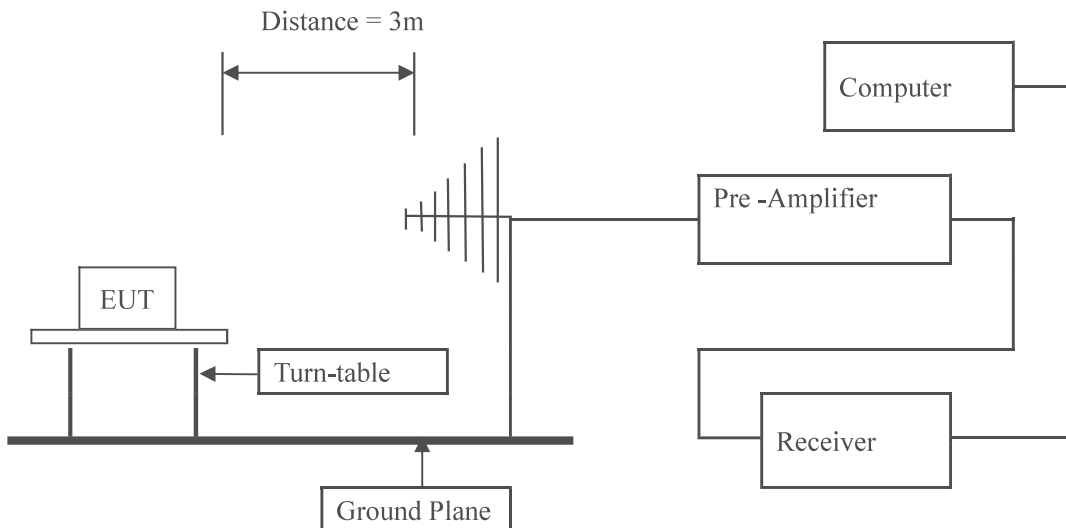


5.2 Test Method and test Procedure:

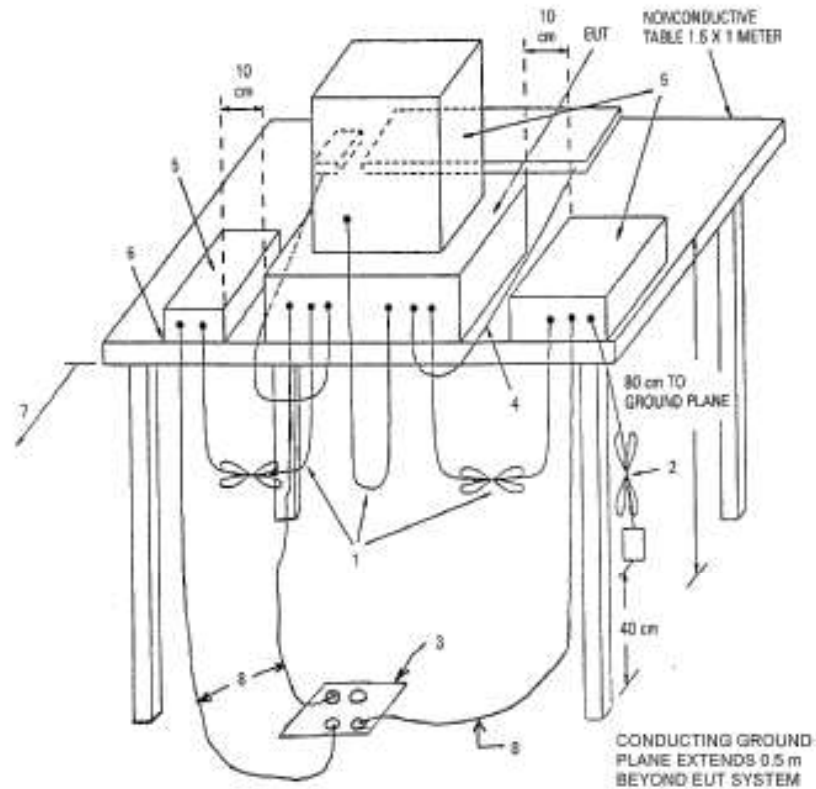
The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz,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

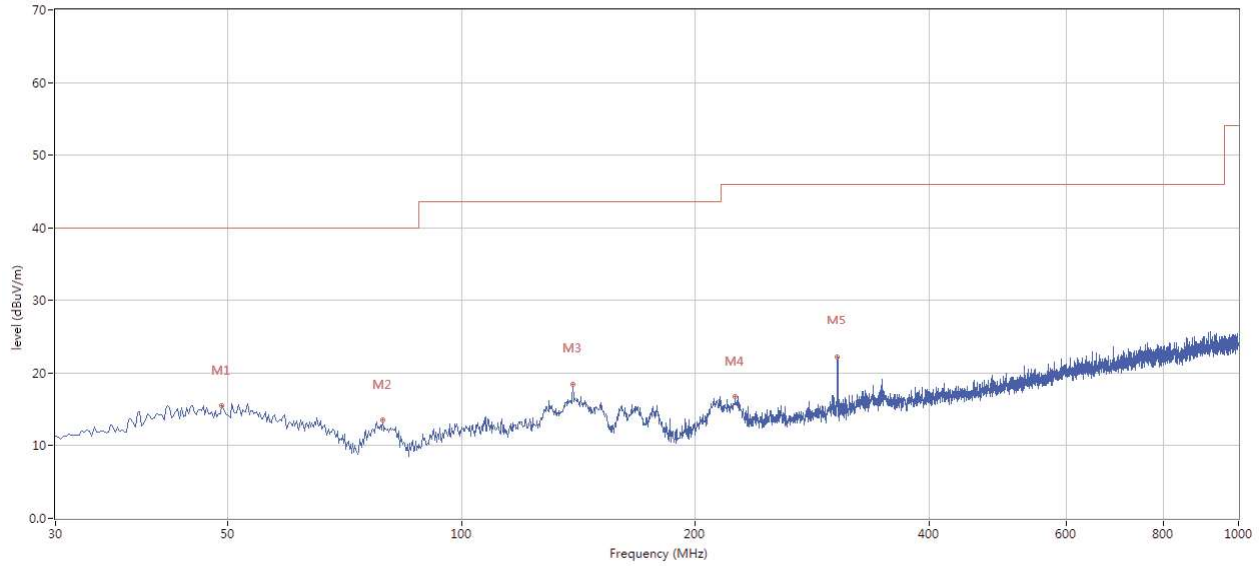
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A: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2020-09-21_14.32.21
EUT Name:	52"Hollis (was Sparrow) 52196/52197/52198	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	52-SPAR	Work Addition:	Receiving
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

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	49.153	15.42	-11.24	40.0	-24.58	Peak	48.00	200	Horizontal	Pass
2	79.215	13.49	-17.46	40.0	-26.51	Peak	349.00	200	Horizontal	Pass
3	139.098	18.47	-17.21	43.5	-25.03	Peak	0.00	200	Horizontal	Pass
4	224.921	16.67	-12.93	46.0	-29.33	Peak	0.00	200	Horizontal	Pass
5	304.684	22.23	-10.96	46.0	-23.77	Peak	271.00	100	Horizontal	Pass

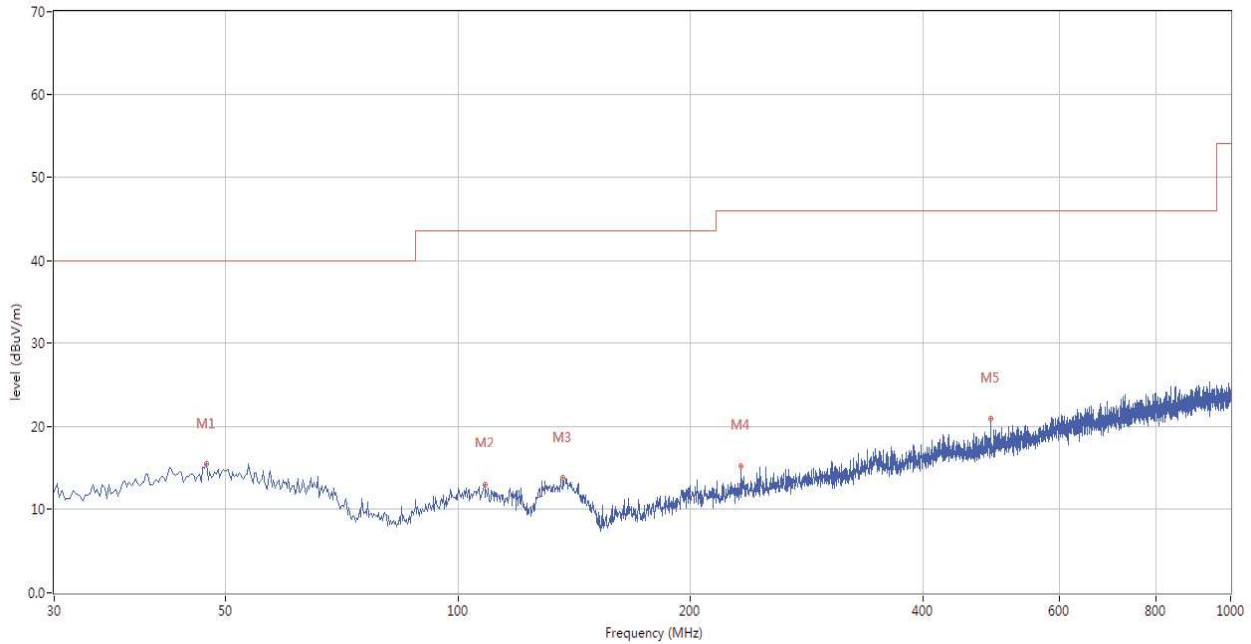
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B: Radiated Disturbance (30MHz----1000MHz)

Project Number:	CASE3	Test Time:	2020-09-21_14.32.07
EUT Name:	52"Hollis (was Sparrow) 52196/52197/52198	Test Engineer:	HAVEN
Manufacturer:	King of Fans,Inc	Test Standard:	FCC Part 15B
Model:	52-SPAR	Work Addition:	Receiving
Temp.(°C):	25	Load:	
Hum.:	65%	Remark:	

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	47.213	15.43	-11.41	40.0	-24.57	Peak	288.00	100	Vertical	Pass
2	108.308	13.00	-13.43	43.5	-30.50	Peak	281.00	100	Vertical	Pass
3	136.673	13.75	-17.17	43.5	-29.75	Peak	47.00	100	Vertical	Pass
4	232.437	15.20	-12.53	46.0	-30.80	Peak	261.00	100	Vertical	Pass
5	489.665	20.92	-7.25	46.0	-25.08	Peak	154.00	100	Vertical	Pass

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

EUT Operating Environment

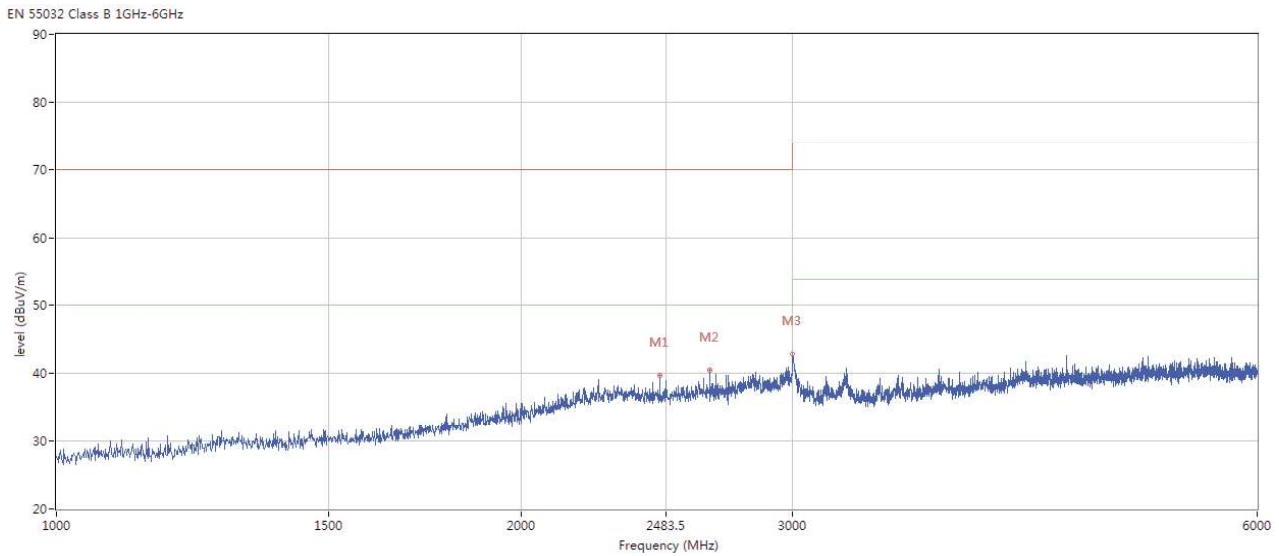
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2460.885	39.64	-3.57	70.0	-30.36	Peak	253.00	100	H	Pass
2	2650.837	40.41	-3.14	70.0	-29.59	Peak	199.00	100	H	Pass
3	2999.500	42.83	-2.64	70.0	-27.17	Peak	356.00	100	H	Pass

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

EUT Operating Environment

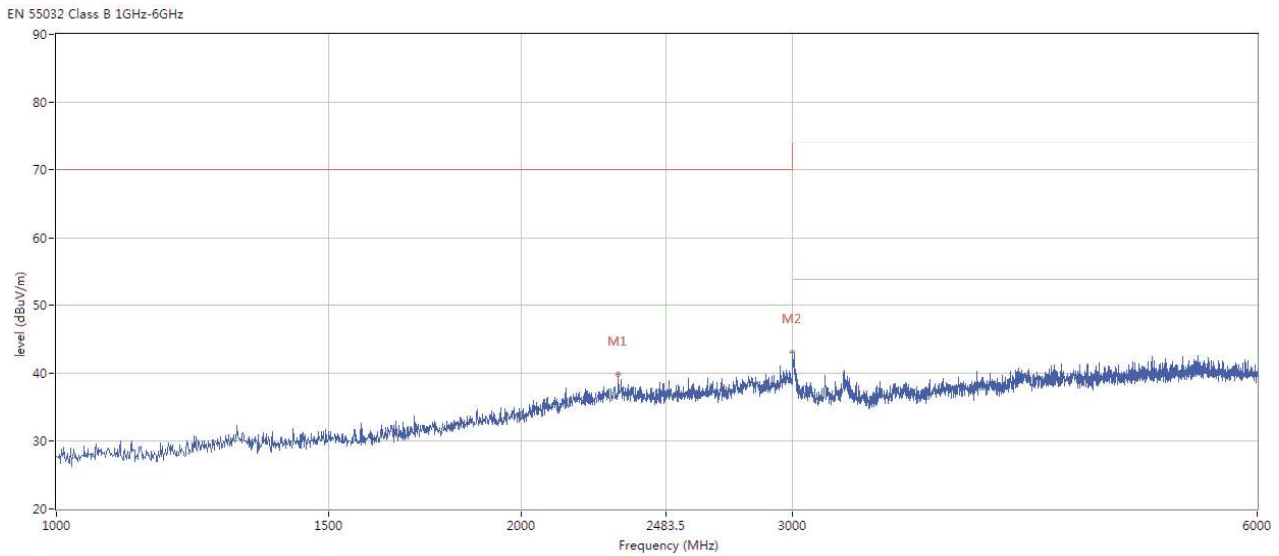
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

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	2313.422	39.76	-3.24	70.0	-30.24	Peak	247.00	100	V	Pass
2	2999.500	43.06	-2.64	70.0	-26.94	Peak	4.00	100	V	Pass

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6.0 FCC Label

FCC ID: RGB-52SPARD

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.



Label Location

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7.0 Photo of testing

Conducted Emissions

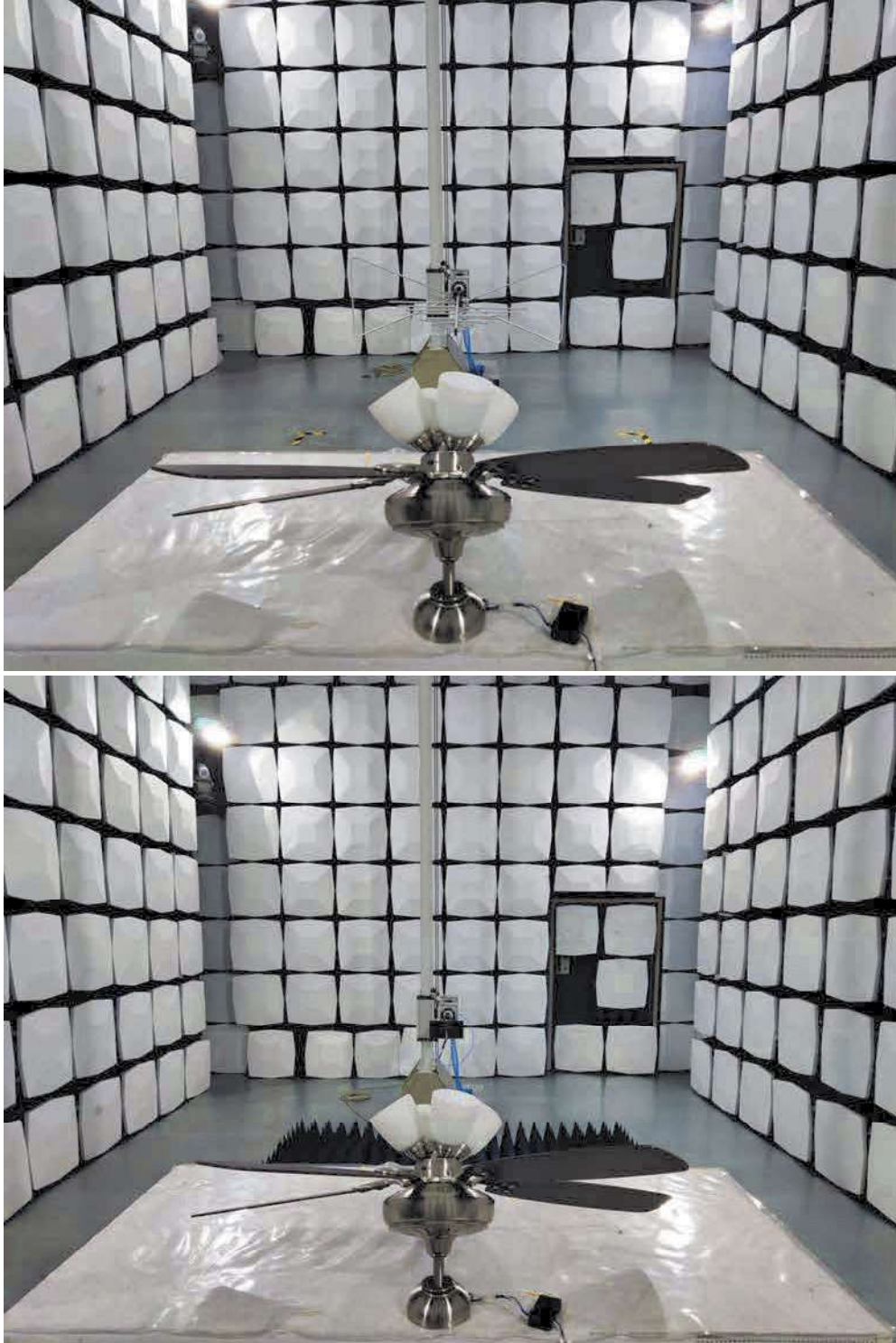


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Radiated Emissions



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Photographs – EUT



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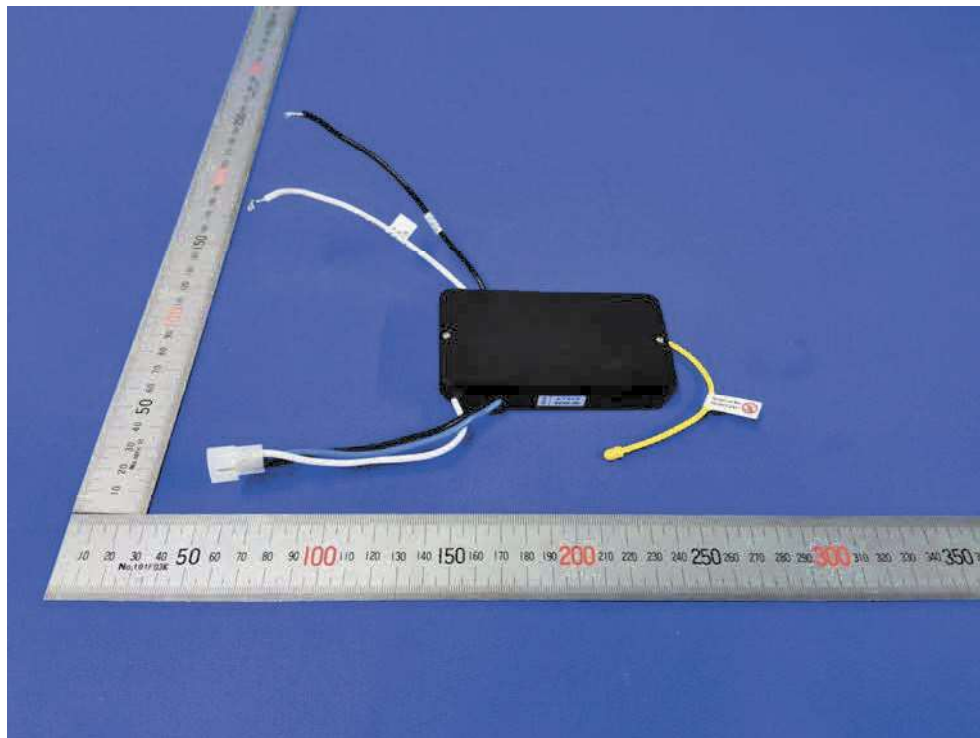
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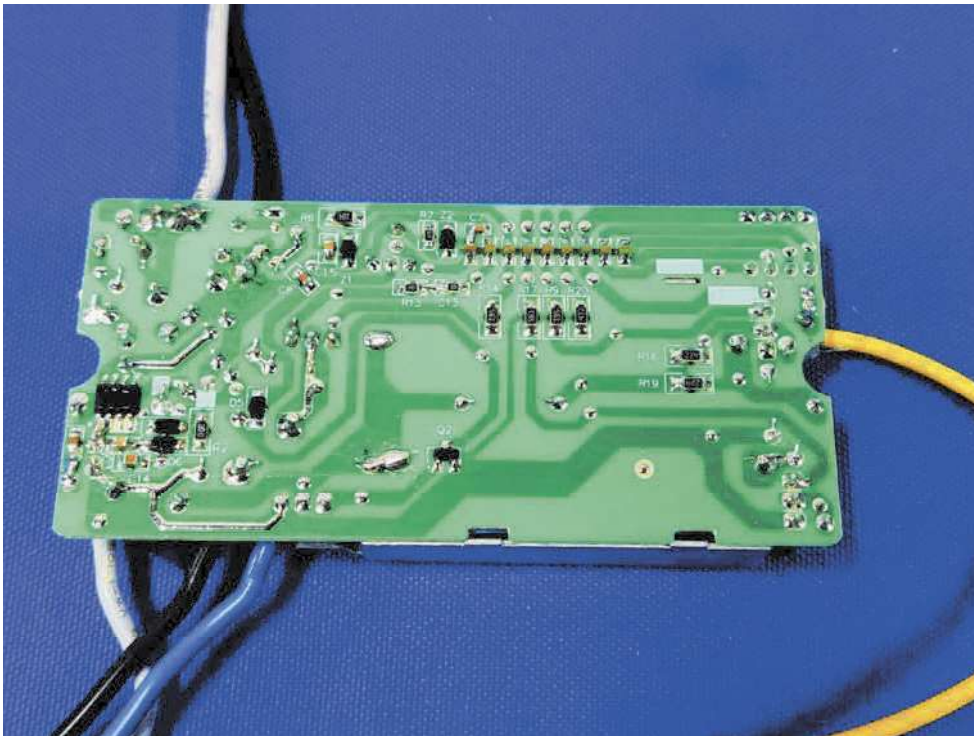
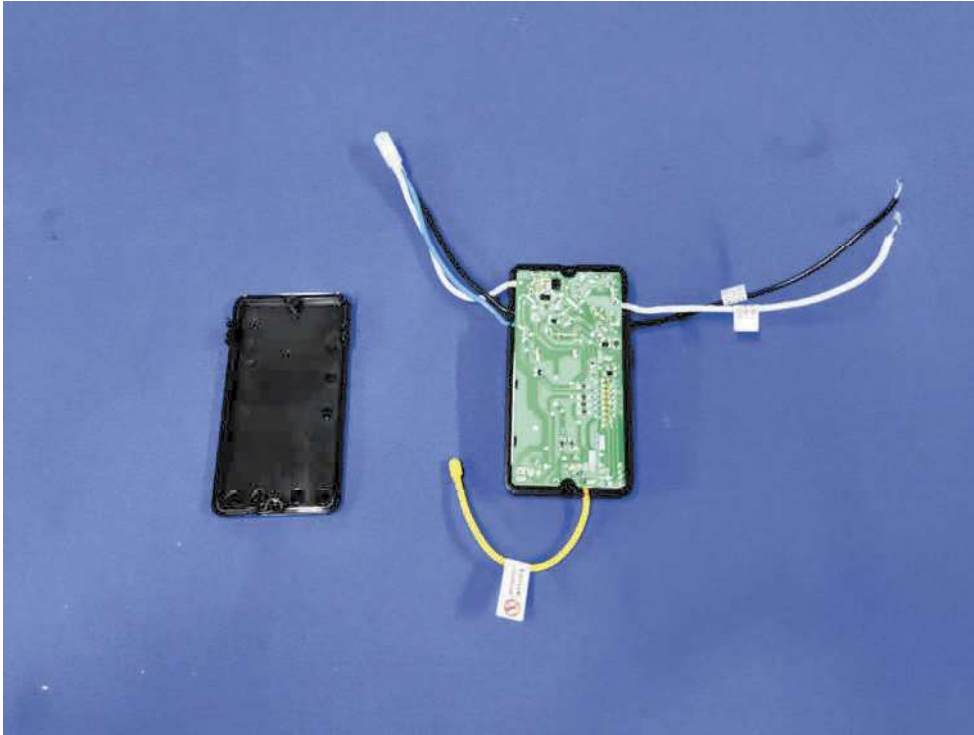
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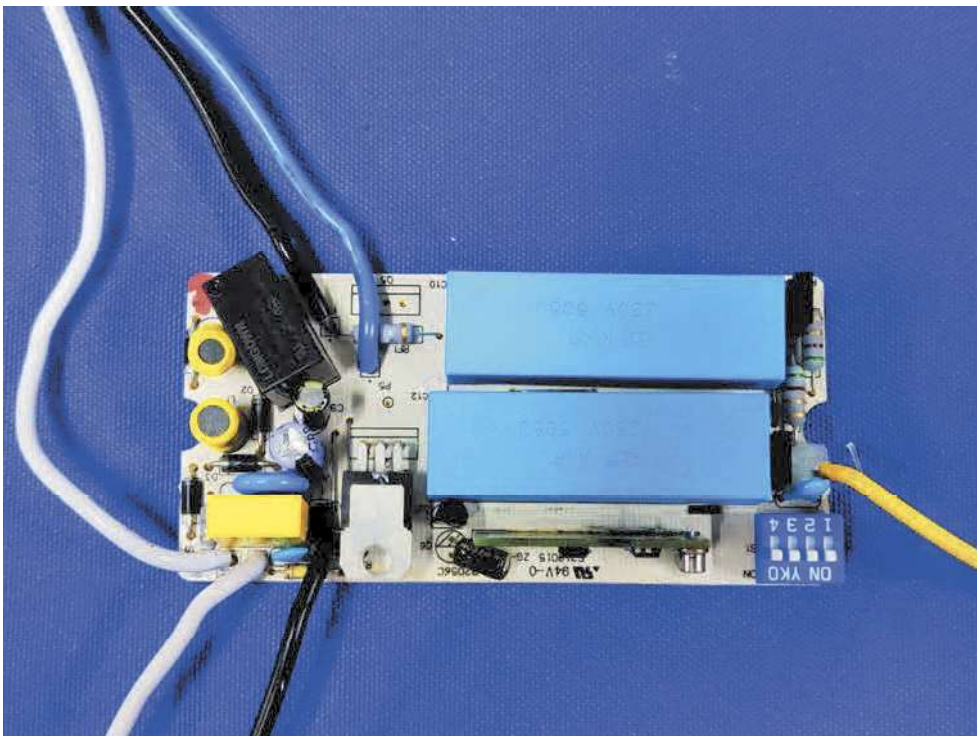
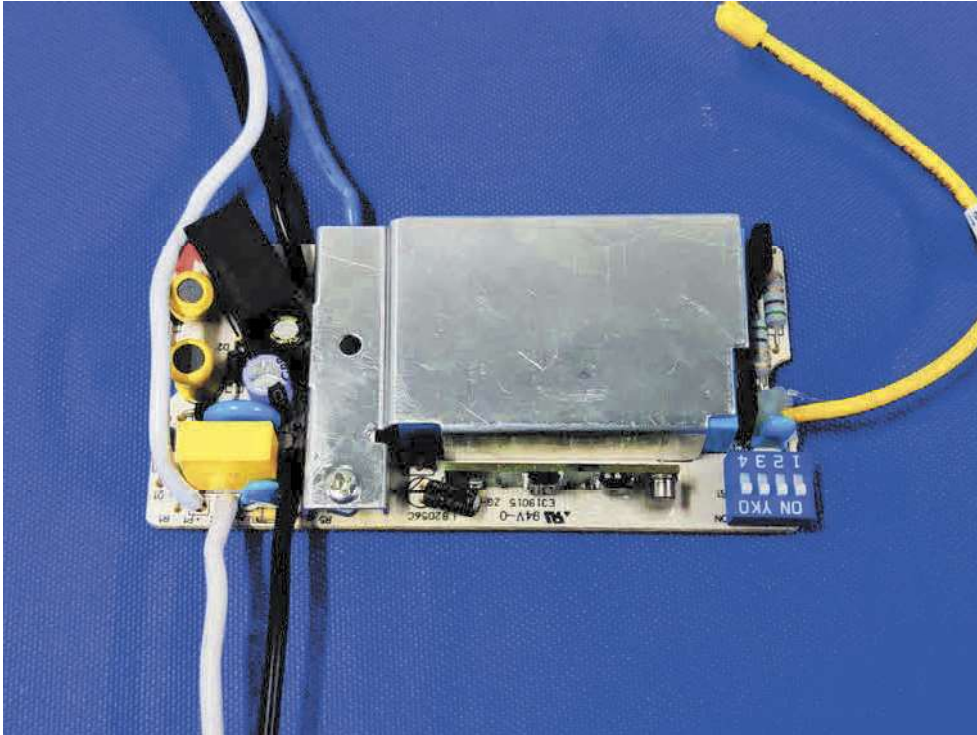


Photographs – EUT



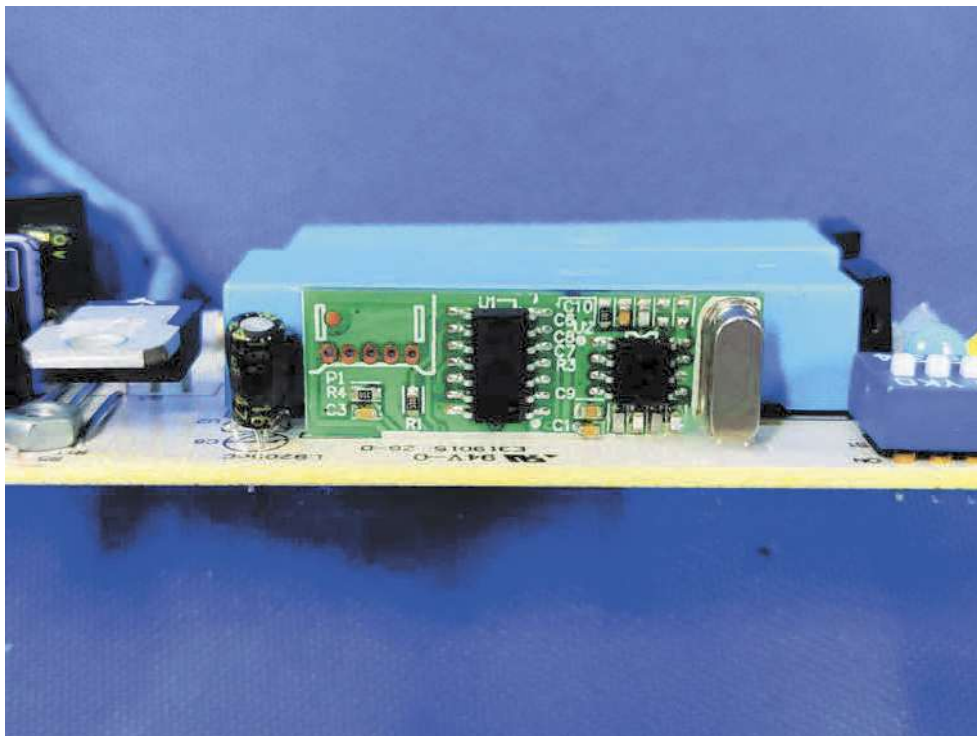
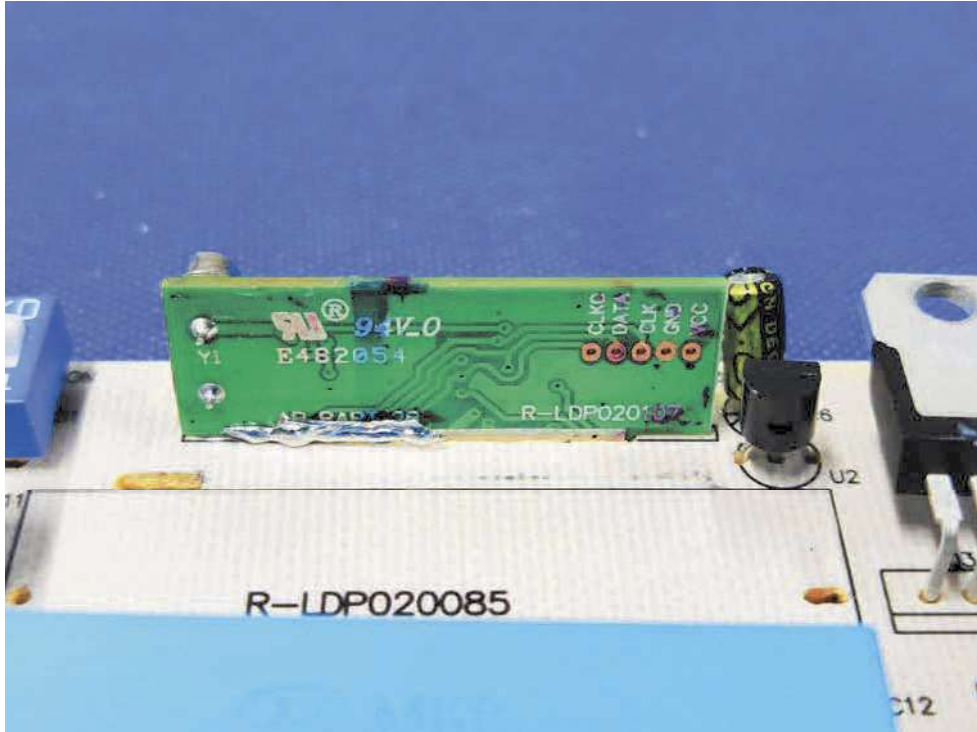
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End of The Report

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