



Report No: FCC1510141-01 File reference No: 2015-11-10

Applicant: King of Fans, Inc.

Product: 52" Sandy cove

Model No: 52-GLH

Trademark: N/A

Test Standards: FCC Part 15 Subpart B: 2015

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: November 10, 2015

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@timewaytech.com

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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

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(755) 83448688 Telephone: (755) 83442996 Fax:

Site on File with the Federal Communications Commission – United Sates

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" Sandy cove

Manufacturer: Chienluen Industries (zhongshan) LTD

Address: Da che Industrial Area, Nanlang Town, zhongshan, Guangdong

China 528451

Brand Name: N/A Model Number: 52-GLH

Rating: Input:120V, 60Hz; FAN W/O light kit 0.6A, 72W; FAN W/Light kit: 0.8A, 90W

Rx Frequency: 304.25MHz

Submitted Sample: 1 Samples

1.5 Test Duration: 2015-10-27 to 2015-11-10

1.6 **Test Uncertainty**

1.4

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

1.7 Test Engineer

The sample tested by

leng long

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2015.08.22	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	НР	2015.08.22	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2015.08.22	1Year
LISN	ESH3-Z5	100294	RS	2015.08.22	1Year
LISN	ESH3-Z5	100253	RS	2015.08.22	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESVD	100008	RS	2015.08.22	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	НР	2015.06.24	1Year
Amplifier	8447D	2727A05017	HP	2015.08.22	1Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2015.08.23	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2015.08.24	1Year
Horn Antenna	BBHA 9170	BBHA9170265	Schwarebeck	2015.08.24	1Year

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3.0 Technical Details

3.1 Investigations Requested
Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

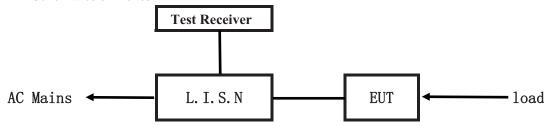
FCC Part 15 Subpart B: 2015

Date: 2015-11-10



4.0 Conducted Power line Test

4.1 Schematics of the test



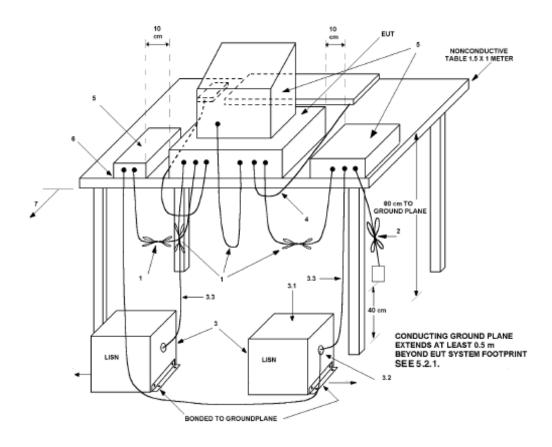
EUT: Equipment Under Test

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

Fraguanay (MUz)	Class A Li	mits dB(μV)	Class B Lin	nits dB(μV)	
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.00	66.00	66.00~56.00*	56.00~46.00*	
$0.50 \sim 5.00$	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.

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

EUT Operating Environment

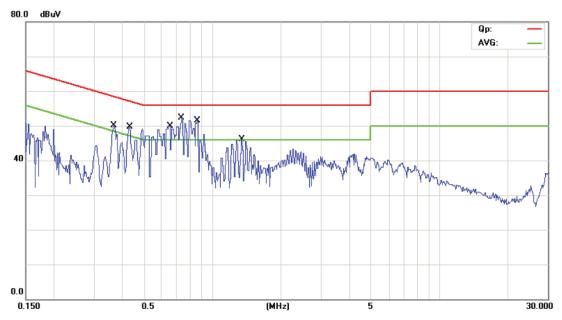
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.7304	37.20	11.61	48.81	56.00	-7.19	QP	
2		0.7304	29.50	11.61	41.11	46.00	-4.89	AVG	
3		0.4273	36.50	11.29	47.79	57.31	-9.52	QP	
4		0.4273	28.90	11.29	40.19	47.31	-7.12	AVG	
5	*	0.8600	39.71	11.75	51.46	56.00	-4.54	QP	
6		0.8600	29.49	11.75	41.24	46.00	-4.76	AVG	
7		0.3661	38.81	11.23	50.04	58.59	-8.55	QP	
8		0.3661	25.64	11.23	36.87	48.59	-11.72	AVG	
9		0.6462	38.29	11.53	49.82	56.00	-6.18	QP	
10		0.6462	26.73	11.53	38.26	46.00	-7.74	AVG	
11		1.3437	34.07	12.04	46.11	56.00	-9.89	QP	
12		1.3437	21.31	12.04	33.35	46.00	-12.65	AVG	

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

EUT Operating Environment

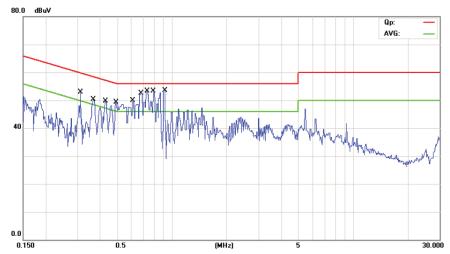
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No. I	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.9141	30.10	11.81	41.91	56.00	-14.09	QP	
2		0.9141	20.80	11.81	32.61	46.00	-13.39	AVG	
3		0.3106	24.70	11.17	35.87	59.95	-24.08	QP	
4		0.3106	19.10	11.17	30.27	49.95	-19.68	AVG	
5		0.3660	37.60	11.23	48.83	58.59	-9.76	QP	
6		0.3660	32.40	11.23	43.63	48.59	-4.96	AVG	
7		0.4265	36.60	11.29	47.89	57.32	-9.43	QP	
8	*	0.4265	32.70	11.29	43.99	47.32	-3.33	AVG	
9		0.4884	35.30	11.36	46.66	56.19	-9.53	QP	
10		0.4884	30.70	11.36	42.06	46.19	-4.13	AVG	
11		0.6106	36.40	11.49	47.89	56.00	-8.11	QP	
12		0.6106	30.00	11.49	41.49	46.00	-4.51	AVG	
13		0.6720	38.10	11.55	49.65	56.00	-6.35	QP	
14		0.6720	30.70	11.55	42.25	46.00	-3.75	AVG	
15		0.7324	38.50	11.62	50.12	56.00	-5.88	QP	
16		0.7324	30.80	11.62	42.42	46.00	-3.58	AVG	
17		0.7918	38.50	11.68	50.18	56.00	-5.82	QP	
18		0.7918	29.70	11.68	41.38	46.00	-4.62	AVG	

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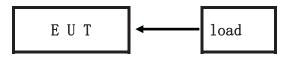
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

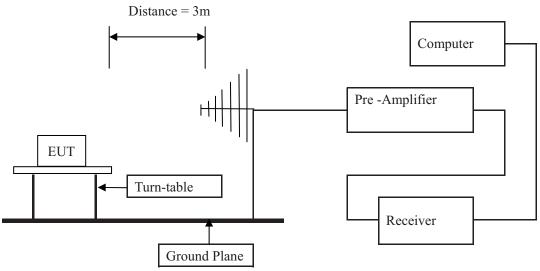


5.2 Test Method and test Procedure:

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=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

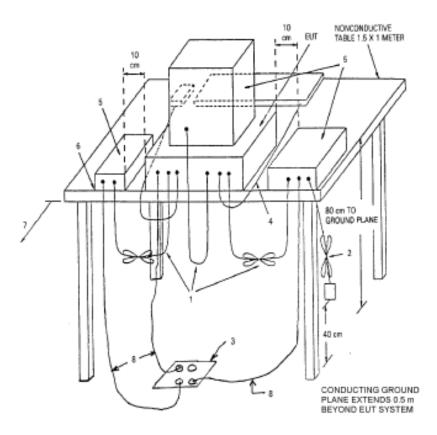
Actual Working Voltage and Frequency: 120V~, 60Hz

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

2. This is a handhold 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 \u03bc V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
305.840	31.66	Н	46.00
992.840	40.08	Н	54.00
168.080	32.11	Н	43.50
30.200	31.02	Н	40.00
160.080	27.07	V	43.50
993.040	39.56	V	54.00
30.000	37.61	V	40.00
44.920	31.92	V	40.00

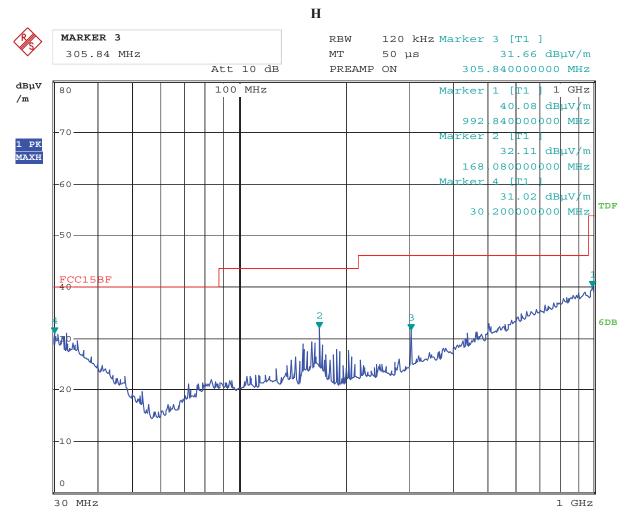
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Test Figure:



Date: 27.OCT.2015 15:12:54

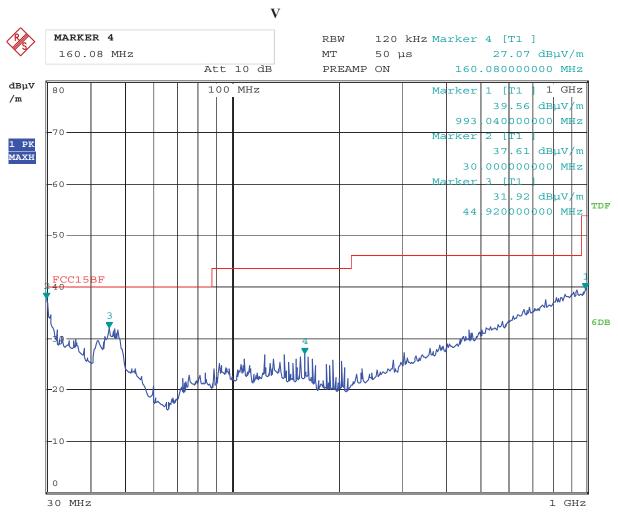
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Test Figure:



Date: 27.0CT.2015 15:07:19

Date: 2015-11-10



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

EUT Operating Environment

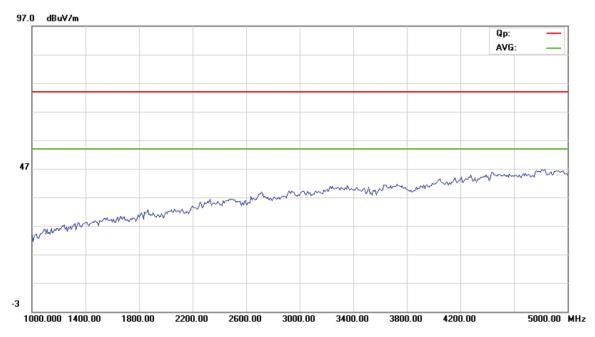
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 KPa

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)
		Н	54(AV)

Note: PK scan curve are lower than AV limit.

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

EUT Operating Environment

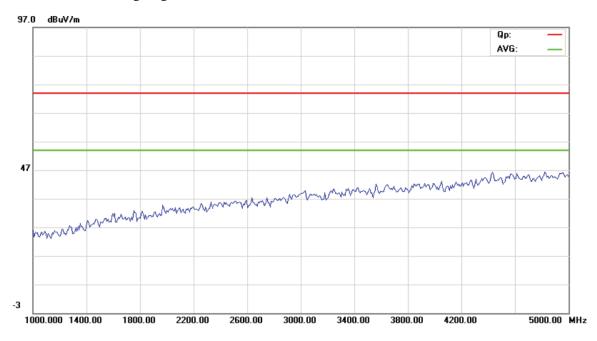
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Receiving Mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Free	uency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
			V	54(AV)

Note: PK scan curve are lower than AV limit.

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6.0 FCC ID Label

FCC ID: RGB-52GLHS

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

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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Photo for the EUT



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Photo for the EUT



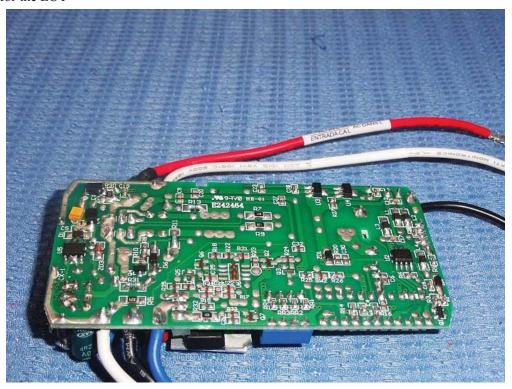


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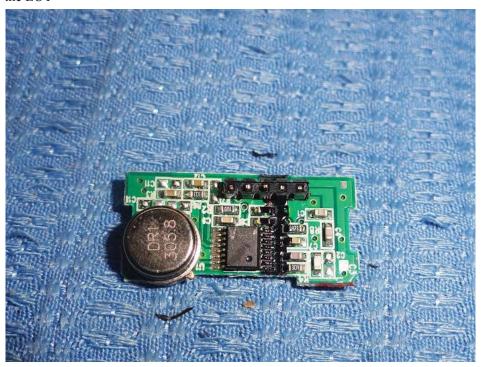
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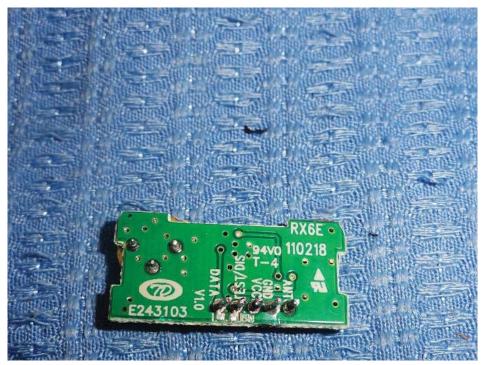
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Date: 2015-11-10



Photo for the EUT





-End of the report-

The report refers only to the sample tested and does not apply to the bulk.

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