

TEST REPORT

FCC ID: 2AS53Z3

Product: 3D LED FAN

Model No.: Z3

Additional Model No.: Z1, Z2, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z18, Z30, Z200, Z3H, Z5S

Trade Mark: wiikk

Report No.: TCT190410E026

Issued Date: Jul. 15, 2019

Issued for:

Shenzhen Wiikk Technology Co. Ltd.

4/F Bldg 3, No.8 of Guansheng 5th Road, Longhua, Shenzhen, Guangdong, China

Issued By:

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Appendix A: Photographs of Test Setup**Appendix B: Photographs of EUT**

1. Test Certification

Product:	3D LED FAN
Model No.:	Z3
Additional Model No.:	Z1, Z2, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z18, Z30, Z200, Z3H, Z5S
Trade Mark:	wiikk
Applicant:	Shenzhen Wiikk Tecnology Co. Ltd.
Address:	4/FBldg 3, No.8 of Guansheng 5th Road, Longhua, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Wiikk Tecnology Co. Ltd.
Address:	4/FBldg 3, No.8 of Guansheng 5th Road, Longhua, Shenzhen, Guangdong, China
Date of Test:	Apr. 11, 2019 – Jul. 12, 2019
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2013

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Date: Jul. 12, 2019

Rleo

Reviewed By:



Date: Jul. 15, 2019

Beryl Zhao

Approved By:



Date: Jul. 15, 2019

Tomsin

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	3D LED FAN
Model No.:	Z3
Additional Model No.:	Z1, Z2, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z18, Z30, Z200, Z3H, Z5S
Trade Mark:	wiikk
Hardware Version:	3.3
Software Version:	2.08
Operation Frequency:	2402MHz - 2479MHz
Number of Channel:	78
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-3dBi
Power Supply:	DC 3V(2*AAA Batteries)
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
...
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
...
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	-
19	2421MHz	39	2441MHz	59	2461MHz	79	-

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2440MHz
The Highest channel	2479MHz

4. General Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel
<p>The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.</p>	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

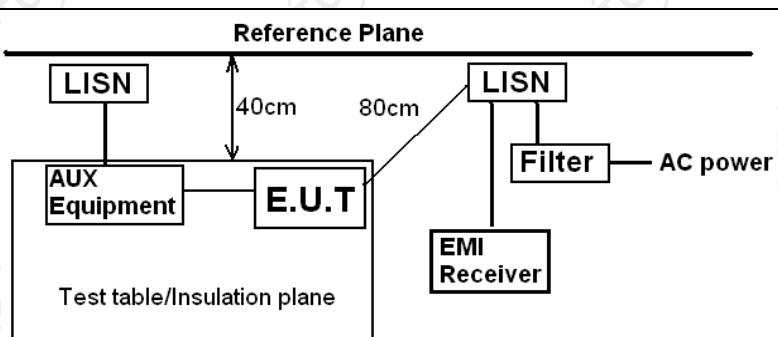
6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
E.U.T Antenna:	
The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -3dBi.	

6.2. Conducted Emission

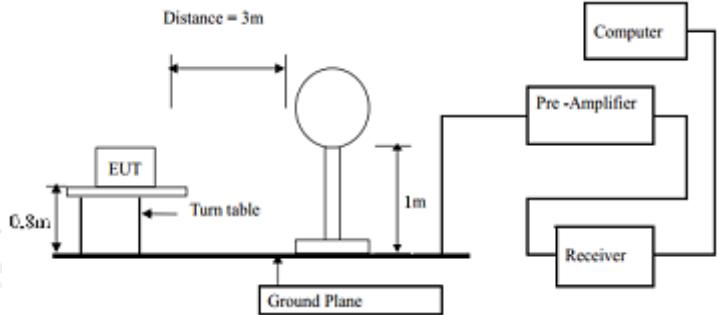
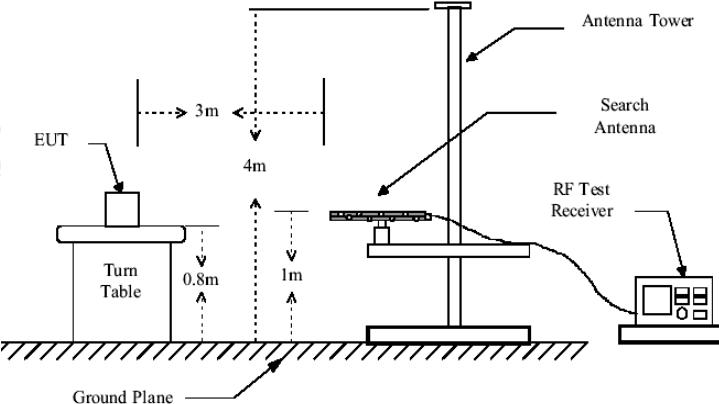
6.2.1. Test Specification

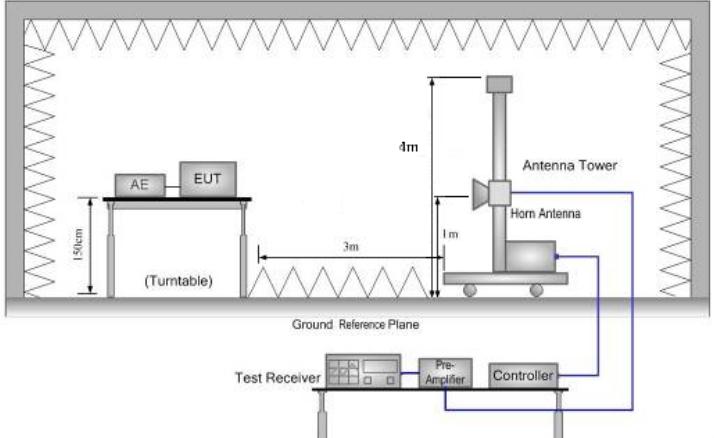
Test Requirement:	FCC Part15 C Section 15.207																	
Test Method:	ANSI C63.10:2013																	
Frequency Range:	150 kHz to 30 MHz																	
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto																	
Limits:	<table border="1"> <thead> <tr> <th>Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr> <tr> <th></th><th>Quasi-peak</th><th>Average</th></tr> </thead> <tbody> <tr> <td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr> <tr> <td>0.5-5</td><td>56</td><td>46</td></tr> <tr> <td>5-30</td><td>60</td><td>50</td></tr> </tbody> </table>			Frequency range (MHz)	Limit (dBuV)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)																	
	Quasi-peak	Average																
0.15-0.5	66 to 56*	56 to 46*																
0.5-5	56	46																
5-30	60	50																
Test Setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																	
Test Mode:	Transmitting mode with modulation																	
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 																	
Test Result:	N/A; Because the EUT is powered by the battery, so the item is not applicable.																	

6.3. Radiated Emission Measurement

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m								
Antenna Polarization:	Horizontal & Vertical								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value				
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		Peak	1MHz	10Hz	Average Value				
Limit(Field strength of the fundamental signal):	Frequency	Limit (dBuV/m @3m)		Remark					
	2400MHz-2483.5MHz	94.00		Average Value					
		114.00		Peak Value					
Limit(Spurious Emissions):	Frequency	Limit (dBuV/m @3m)		Remark					
	0.009-0.490	2400/F(KHz)		Quasi-peak Value					
	0.490-1.705	24000/F(KHz)		Quasi-peak Value					
	1.705-30	30		Quasi-peak Value					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Limit (band edge) :	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.								
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make 								

	<p>the measurement.</p> <p>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>
<p>Test setup:</p>	<p>For radiated emissions below 30MHz</p>  <p>30MHz to 1GHz</p>  <p>Above 1GHz</p> <p>(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)</p>

	
Test results:	PASS

6.3.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Sep. 17, 2019
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 20, 2019
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 16, 2019
Pre-amplifier	HP	8447D	2727A05017	Sep. 16, 2019
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 02, 2019
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Oct. 20, 2019
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 16, 2019
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Sep. 16, 2019
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 16, 2019
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Sep. 16, 2019
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 16, 2019
EMI Test Software	Shurples Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2402	47.15	H	114	-66.85
2402	41.84	V	114	-72.16
2440	46.27	H	114	-67.73
2440	42.16	V	114	-71.84
2479	52.61	H	114	-61.39
2479	43.72	V	114	-70.28

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2402	43.25	H	94	-50.75
2402	37.26	V	94	-56.74
2440	42.33	H	94	-51.67
2440	38.07	V	94	-55.93
2479	47.83	H	94	-46.17
2479	40.02	V	94	-53.98

Spurious Emissions

Frequency Range (9 kHz-30MHz)

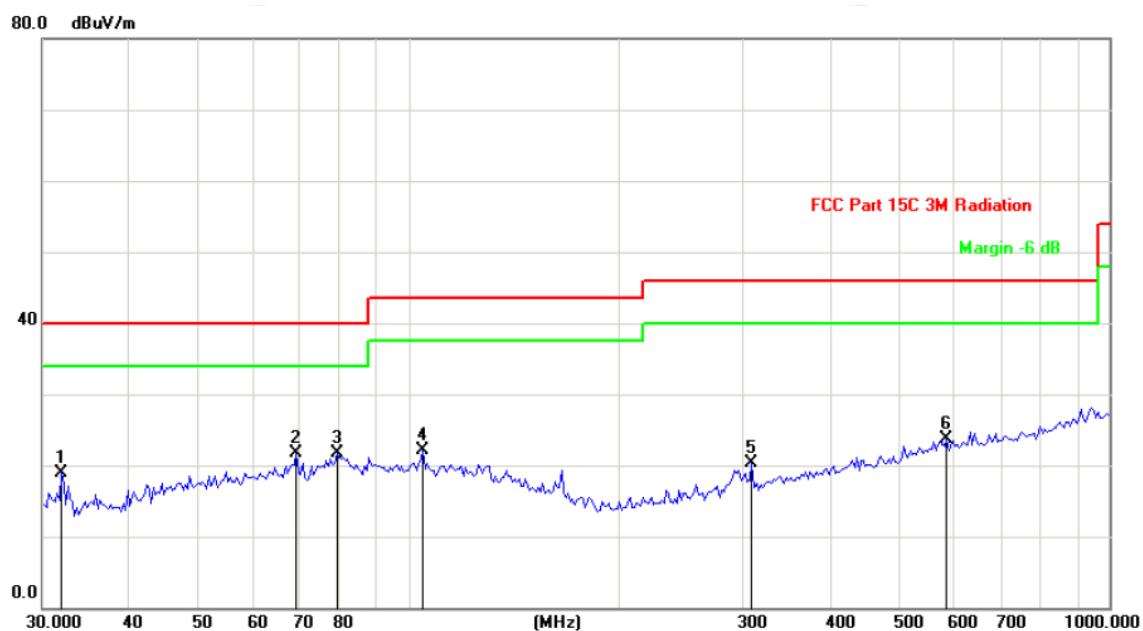
Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Frequency Range (30MHz-1GHz)

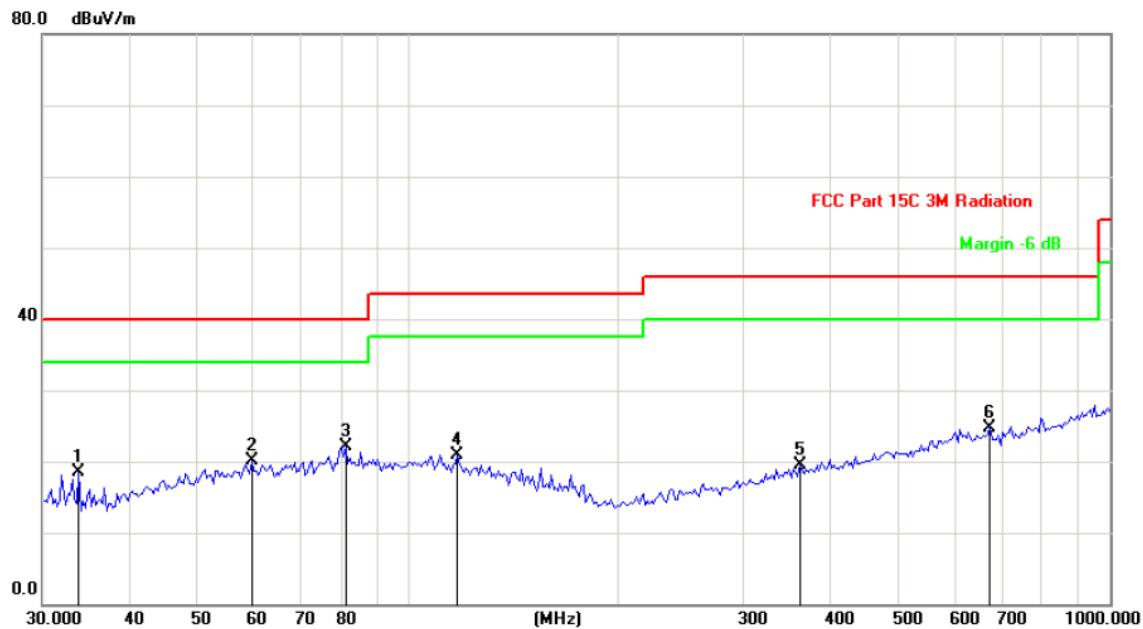
Horizontal:



Site: Polarization: **Horizontal** Temperature: 25
 Limit: FCC Part 15C 3M Radiation Power: DC 3V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over	
							Limit	Over Detector
1		31.9586	30.01	-11.01	19.00	40.00	-21.00	peak
2		69.2296	37.02	-15.39	21.63	40.00	-18.37	peak
3	*	79.1183	38.36	-16.60	21.76	40.00	-18.24	peak
4		104.7977	30.50	-8.42	22.08	43.50	-21.42	peak
5		309.2710	31.02	-10.70	20.32	46.00	-25.68	peak
6		586.2172	29.73	-6.12	23.61	46.00	-22.39	peak

Vertical:



Site	Polarization: <i>Vertical</i>	Temperature: 25
Limit: FCC Part 15C 3M Radiation	Power: DC 3V	Humidity: 55 %

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		33.8066	29.52	-11.02	18.50	40.00	-21.50	peak
2		59.7314	32.39	-12.31	20.08	40.00	-19.92	peak
3	*	81.3739	37.99	-15.84	22.15	40.00	-17.85	peak
4		117.2687	31.78	-10.81	20.97	43.50	-22.53	peak
5		360.9775	29.03	-9.53	19.50	46.00	-26.50	peak
6		674.6767	30.33	-5.53	24.80	46.00	-21.20	peak

Note: 1. Measurements were conducted in all channels (high, middle, low), and the worst case (high channel) was submitted only.
 2. Any value more than 10dB below limit have not been specifically reported.

Above 1GHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4804.00	H	51.27	---	-3.94	47.33	---	74	54	-6.67
7206.00	H	48.53	---	0.52	49.05	---	74	54	-4.95
---	---	---	---	---	---	---	---	---	---
4804.00	V	49.95	---	-3.94	46.01	---	74	54	-7.99
7206.00	V	46.76	---	0.52	47.28	---	74	54	-6.72
---	---	---	---	---	---	---	---	---	---

Middle channel: 2440MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4880.00	H	50.63	---	-3.98	46.65	---	74	54	-7.35
7320.00	H	49.12	---	0.57	49.69	---	74	54	-4.31
---	---	---	---	---	---	---	---	---	---
4880.00	V	52.05	---	-3.98	48.07	---	74	54	-5.93
7320.00	V	47.58	---	0.57	48.15	---	74	54	-5.85
---	---	---	---	---	---	---	---	---	---

High channel: 2479MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4958.00	H	52.14	---	-3.98	48.16	---	74	54	-5.84
7437.00	H	49.37	---	0.57	49.94	---	74	54	-4.06
---	---	---	---	---	---	---	---	---	---
4958.00	V	50.89	---	-3.98	46.91	---	74	54	-7.09
7437.00	V	48.46	---	0.57	49.03	---	74	54	-4.97
---	---	---	---	---	---	---	---	---	---

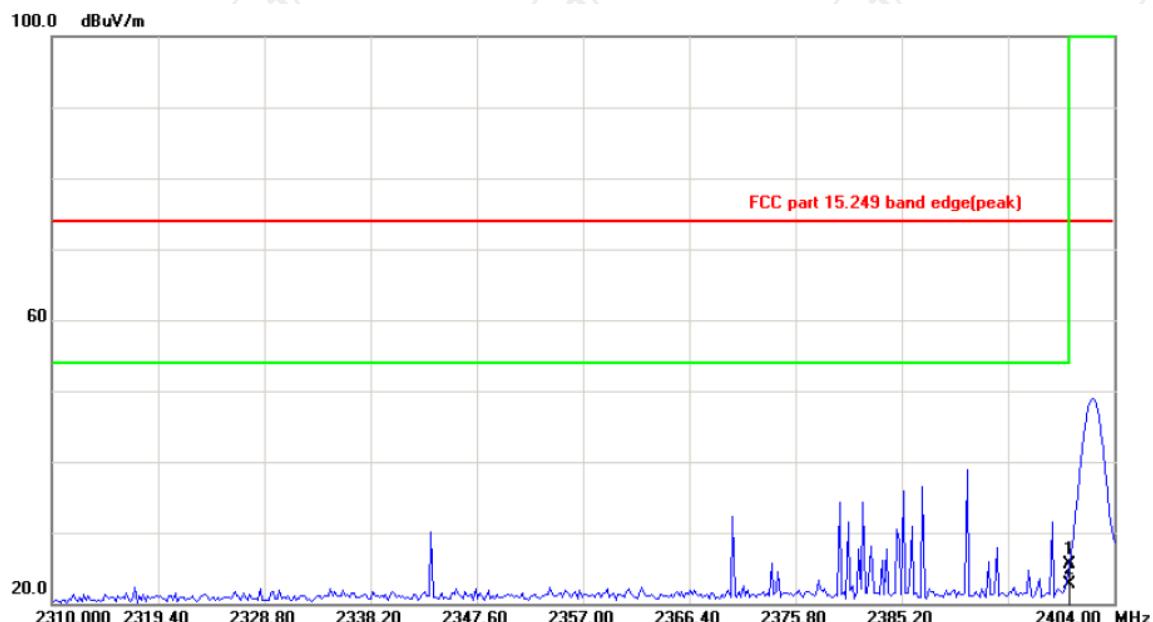
Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “---” in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Band Edge Requirement

Lowest channel 2402:

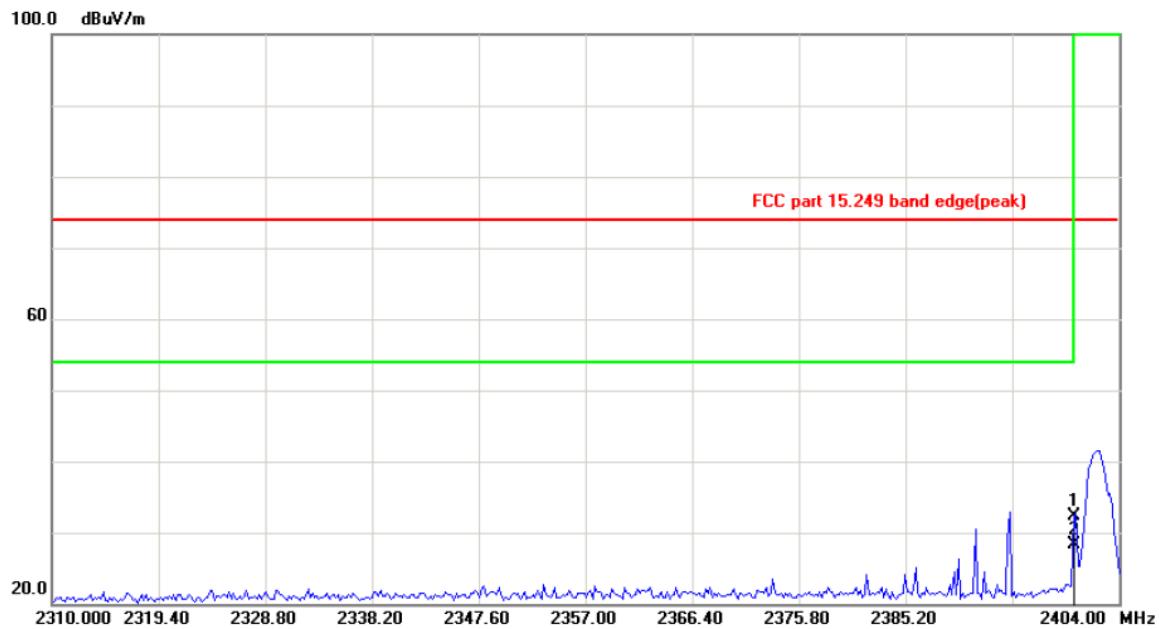
Horizontal:



Site Polarization: **Horizontal** Temperature: 25
 Limit: FCC part 15.249 band edge(peak) Power: DC 3V Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over	
							Detector	peak
1		2400.000	38.58	-13.12	25.46	74.00	-48.54	
2	*	2400.000	35.76	-13.12	22.64	54.00	-31.36	AVG

Vertical:

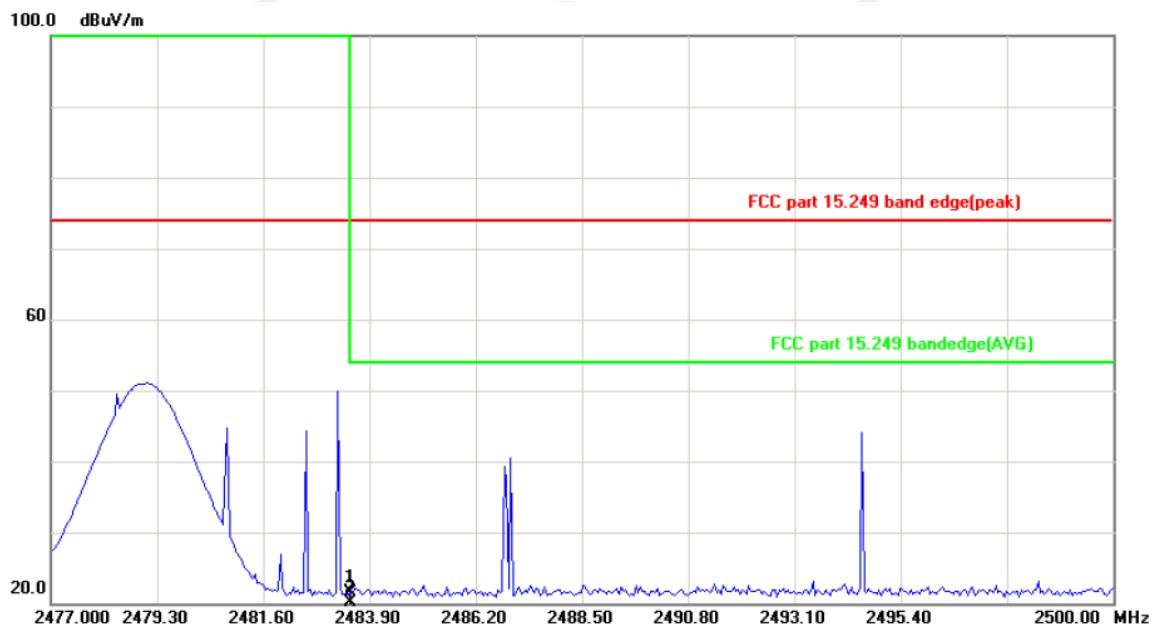


Site	Polarization: Vertical	Temperature: 25
Limit: FCC part 15.249 band edge(peak)	Power: DC 3V	Humidity: 55 %

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over
			Level dBuV	Factor dB	ment dBuV/m		
1		2400.000	45.34	-13.12	32.22	74.00	-41.78 peak
2	*	2400.000	41.48	-13.12	28.36	54.00	-25.64 AVG

Highest channel 2479:

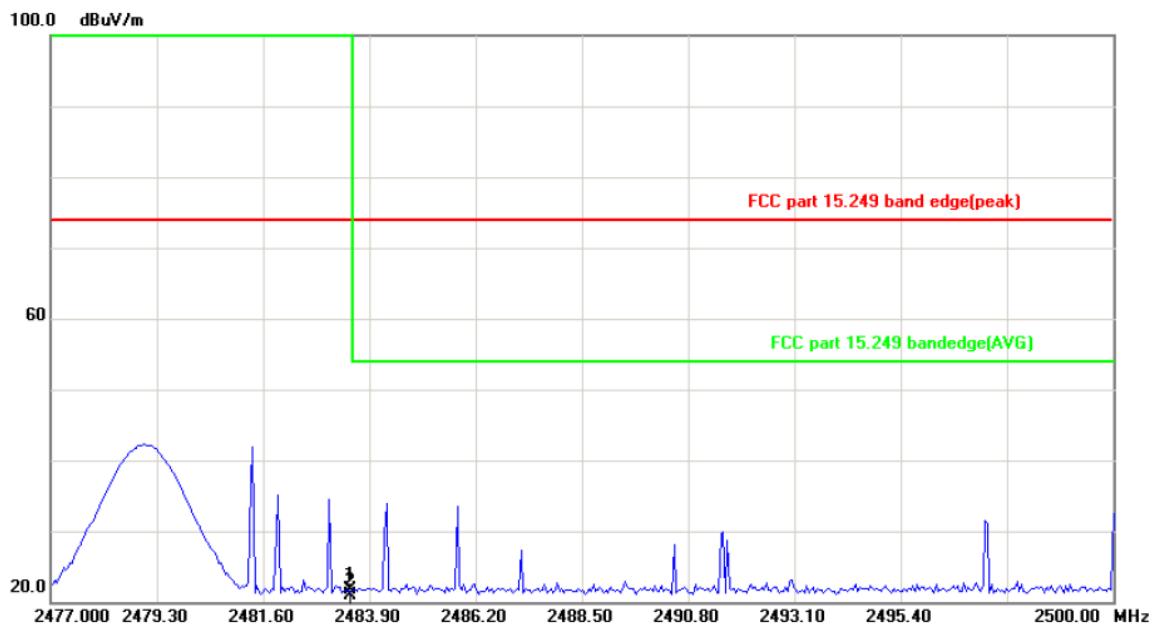
Horizontal:



Site: Polarization: **Horizontal** Temperature: 25
Limit: FCC part 15.249 band edge(peak) Power: DC 3V Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2483.500	34.28	-12.74	21.54	74.00	-52.46	peak
2	*	2483.500	32.94	-12.74	20.20	54.00	-33.80	AVG

Vertical:



Site	Polarization: Vertical	Temperature: 25
Limit: FCC part 15.249 band edge(peak)	Power: DC 3V	Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		2483.500	34.35	-12.74	21.61	74.00	-52.39	peak
2	*	2483.500	33.72	-12.74	20.98	54.00	-33.02	AVG

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (high channel) was submitted only.

6.4. 20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW\geq1% of the 20 dB bandwidth; VBW\geqRBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 <p>Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 20, 2019

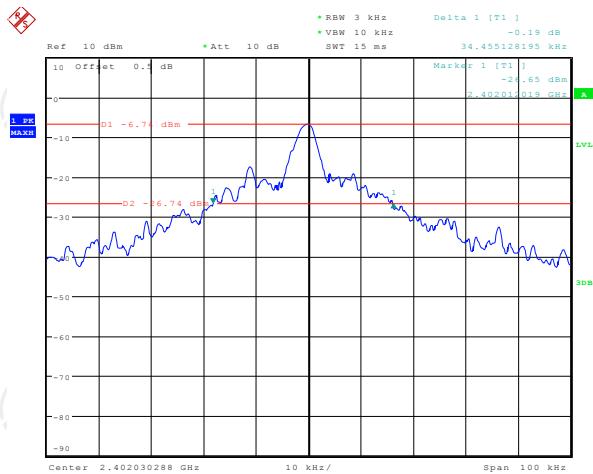
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

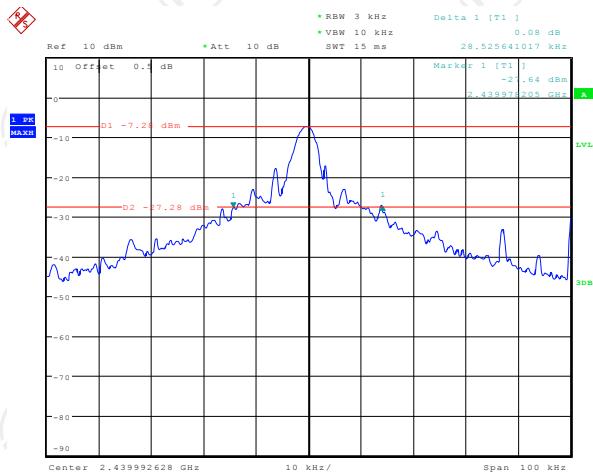
Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	34.46	---	PASS
Middle	28.53	---	PASS
Highest	27.72	---	PASS

Test plots as follows:

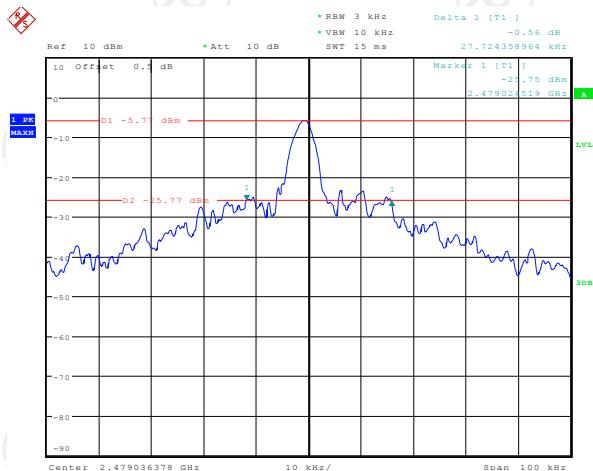
Lowest channel



Middle channel



Highest channel

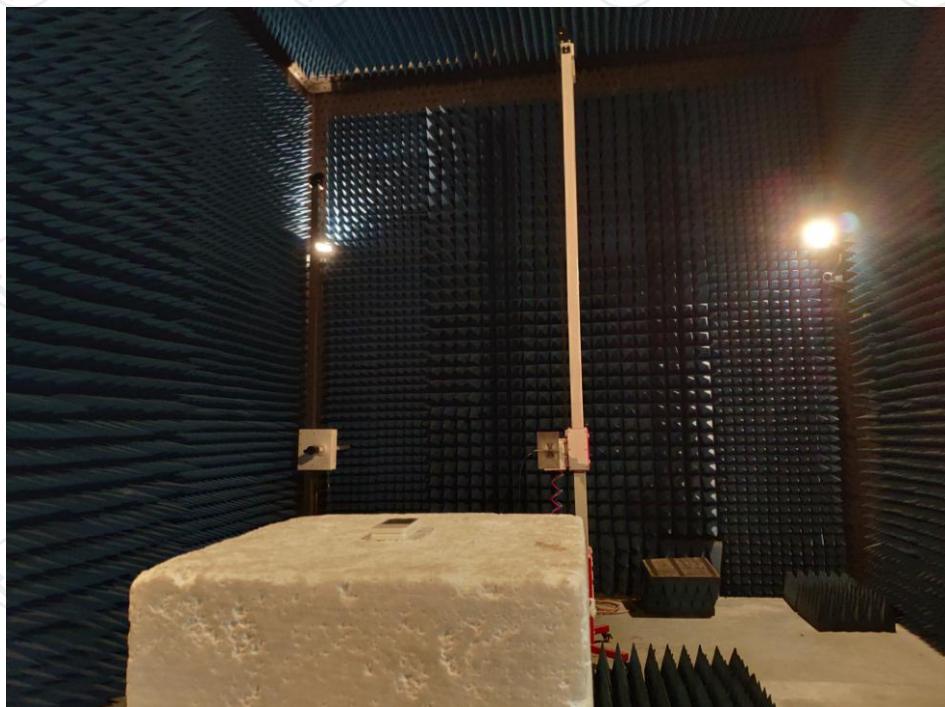
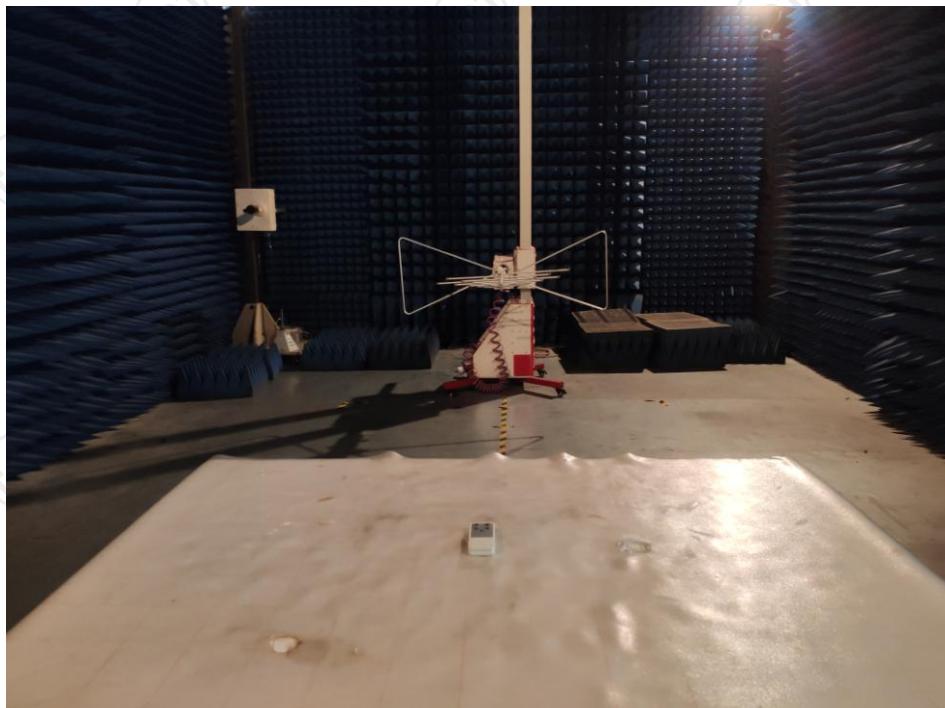


Appendix A: Photographs of Test Setup

Product: 3D LED FAN

Model: Z3

Radiated Emission

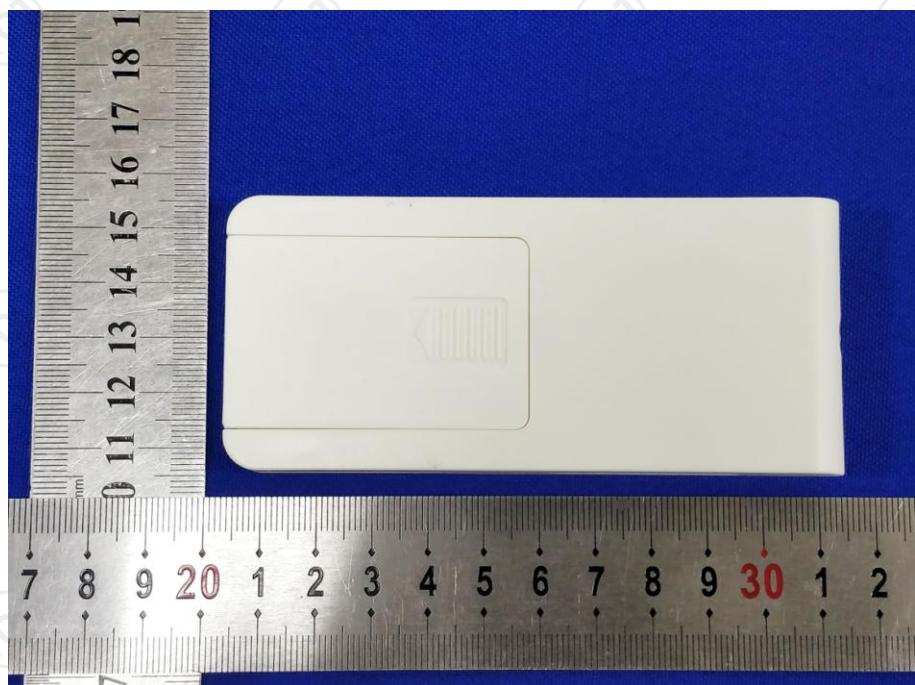
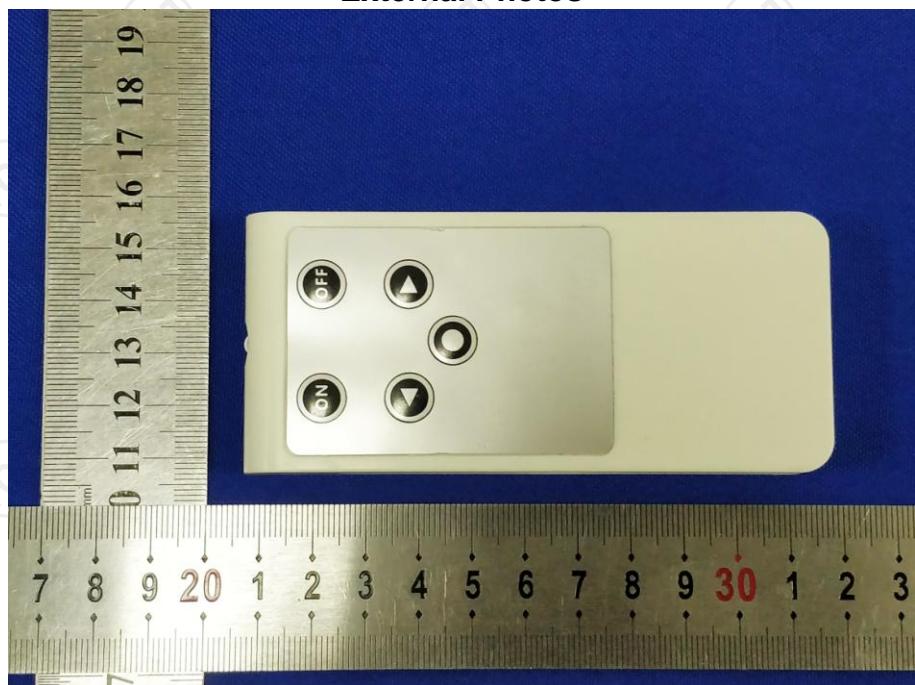


Appendix B: Photographs of EUT

Product: 3D LED FAN

Model: Z3

External Photos



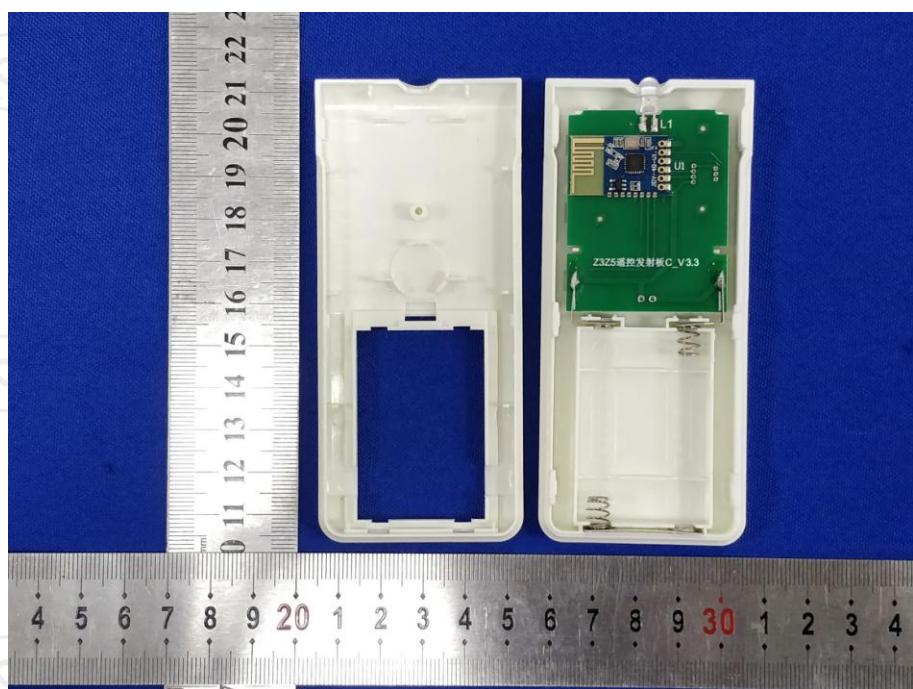
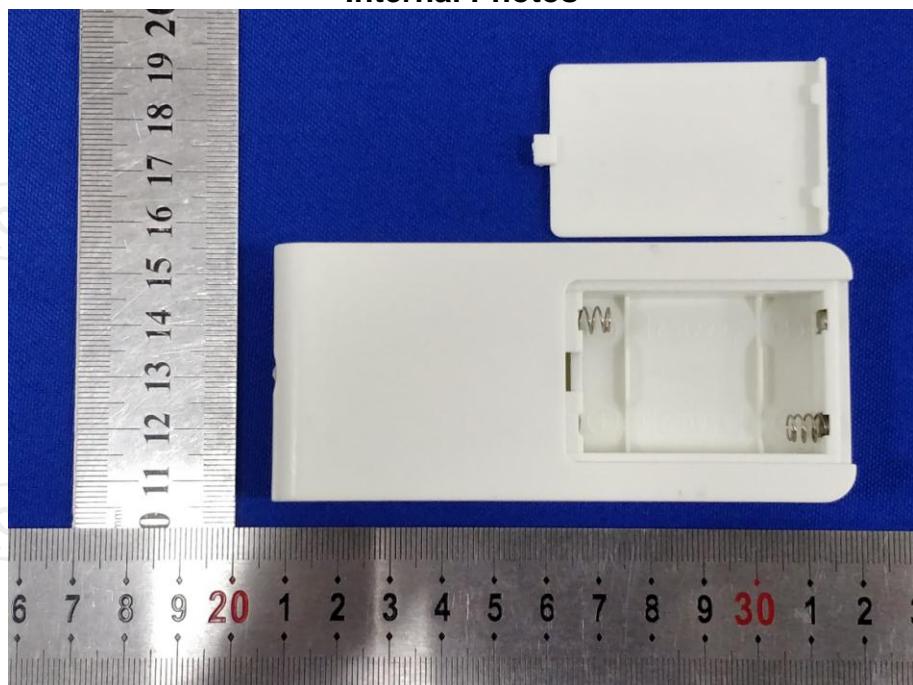


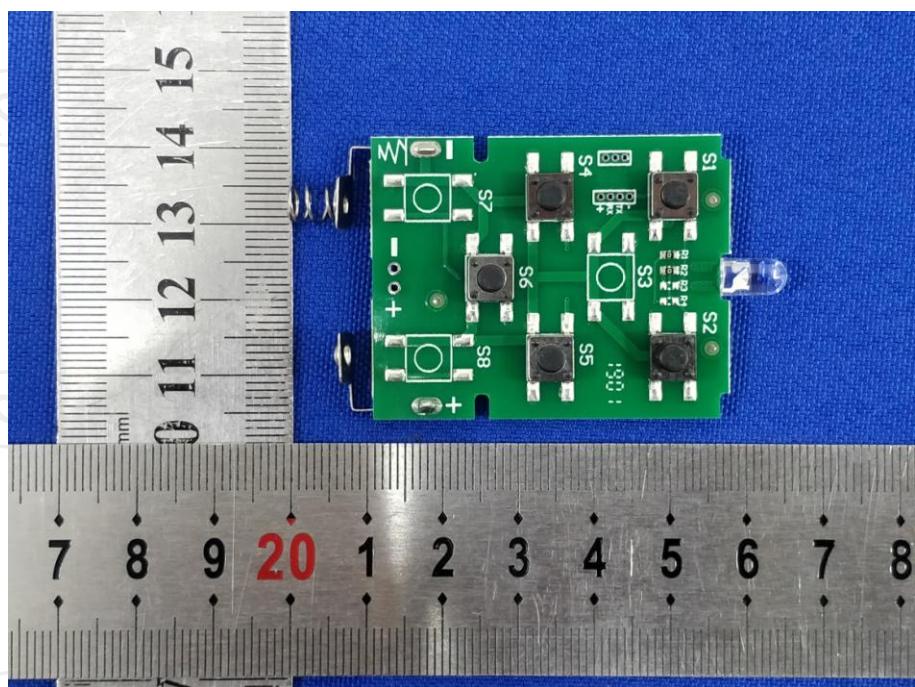
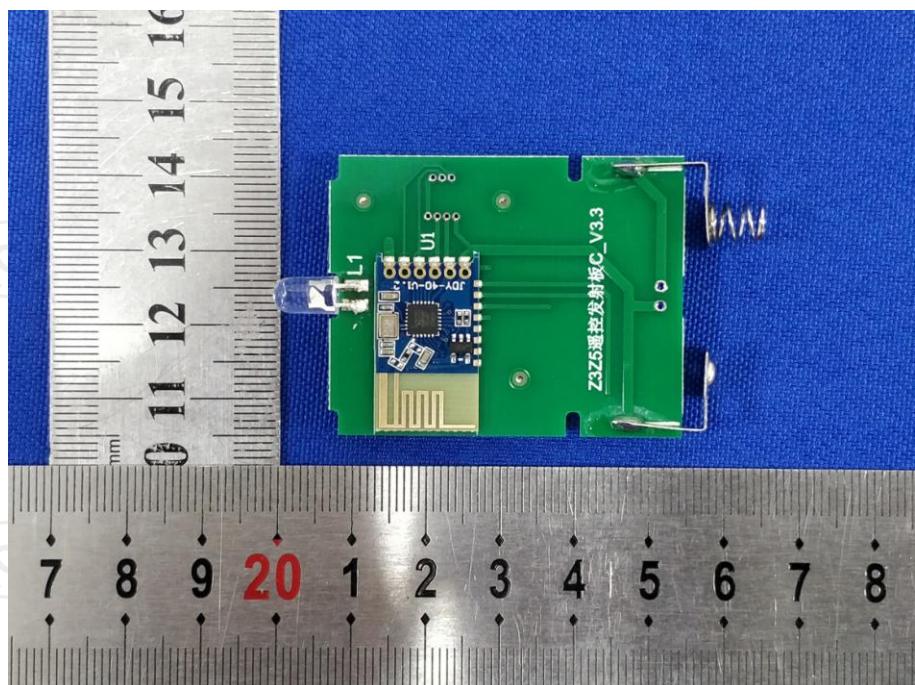


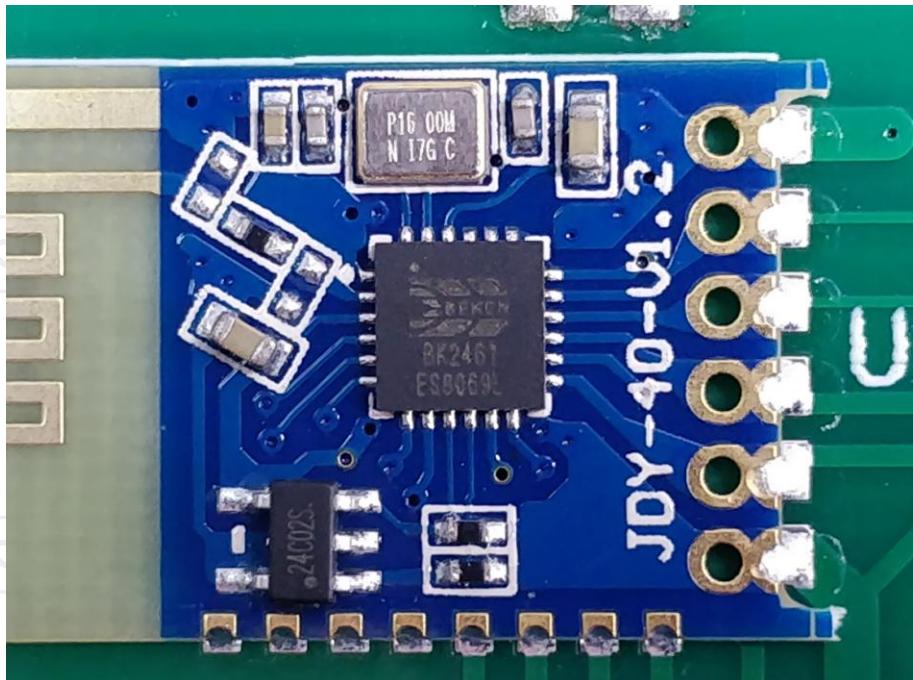
Product: 3D LED FAN

Model: Z3

Internal Photos







*****END OF REPORT*****