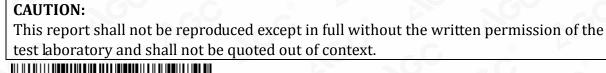


FCC Test Report

Report No.: AGC02124200505FE03

FCC ID	: 2APYD-850008271090
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: 2-Pack Connected Solar Deck Lights
BRAND NAME	: Lightscape
MODEL NAME	: LS-201BSOPL-2
APPLICANT	: Novolink Inc.
DATE OF ISSUE	: Jul 14, 2020
STANDARD(S) TEST PROCEDURE(S)	: FCC Part 15 Subpart C Section 15.231
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jul. 14, 2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Novolink Inc.	
Address	14860 Central Ave, Chino, CA 91710	
Manufacturer	Novolink Inc.	
Address	14860 Central Ave, Chino, CA 91710	
Factory	Novolink Inc.	
Address	14860 Central Ave, Chino, CA 91710	
Product Designation	2-Pack Connected Solar Deck Lights	
Brand Name	Lightscape	
Test Model	LS-201BSOPL-2	
Date of test	Jul. 02, 2020 to Jul. 14, 2020	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BR/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.231. The test results of this report relate only to the tested sample identified in this report.

Prepared By

Then Hurry

Thea Huang Project Engineer

Jul. 14, 2020

Max Zham

Reviewed By

Max Zhang Reviewer

Jul. 14, 2020

Approved By

fowa

Forrest Lei Authorized Officer

Jul. 14, 2020

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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	433.92MHz	
Field Strength(3m)	74.73dBuV/m(Peak)@3m	
Modulation	ASK	
Number of channels		
Hardware Version	V0	
Software Version	V20200518BP	
Antenna Designation	Fixed Antenna	
Antenna Gain	0.55dBi	
Power Supply	DC 3.6V by battery	

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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%.

- Uncertainty of Conducted Emission, Uc = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode(Activated manually)
Note:	
1. All the test modes can report.	be supply by new battery, and only the data of the worst case recorded in the test

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:

EUT

5.2. EQUIPMENT USED IN EUT SYSTEM

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	2-Pack Connected Solar Deck Lights	LS-201BSOPL-2	2APYD-850008271090	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(2)	Activated Automatically	Compliant
§15.231(b)	Average Factor	N/A
§15.231(a) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
§15.231(c)	Bandwidth	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA	

7. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Oct. 26, 2019	Oct. 25, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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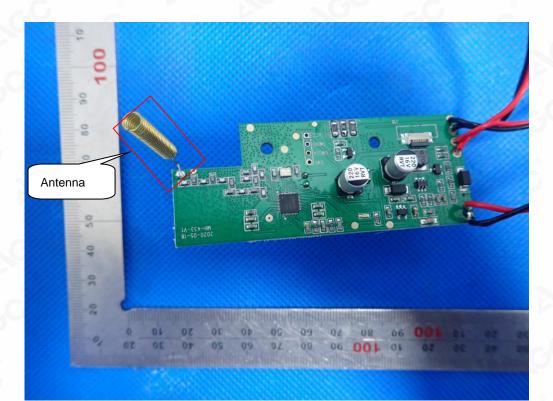


Report No.: AGC02124200505FE03 Page 11 of 32

8. ANTENNA REQUIREMENT

According to §15.203, 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 EuT has fixed antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EuT photo for details.



The requirements of section 15.203 are FULFILLED.

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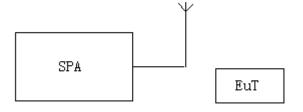
Report No.: AGC02124200505FE03 Page 12 of 32

9. PROVISION FOR MOMENTARY OPERATION

9.1 MEASUREMENT PROCEDURE

- 1. Set the parameters of SPA as below: Centre frequency = Operation Frequency RBW=1MHz, VBW=3MHz Span: 0Hz Sweep time: 10S
- 2. Set the EUT to transmit activated automatically. Use the "View" function of SPA to find the transmission time of being released.
- 3. Record the data and Reported.

9.2 TEST SETUP

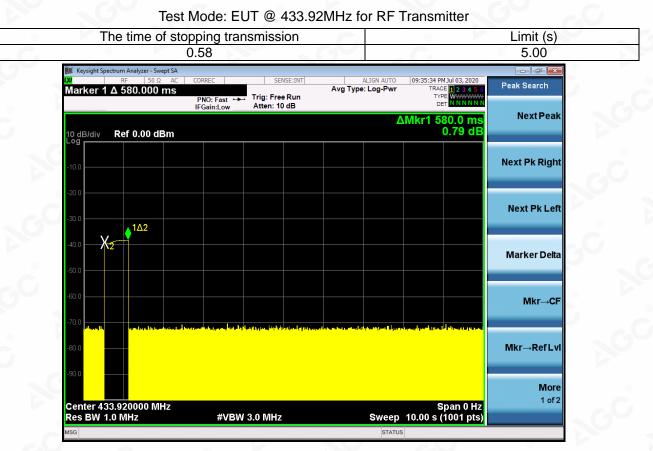


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9.3 TEST RESULT

Mode1(Activated manually):



RESULT: PASS

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10. DUTY CYCLE CORRECTION FACTOR

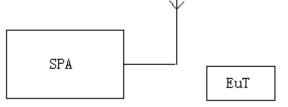
10.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below: Centre frequency = Operation Frequency RBW=1MHz; VBW=3MHz Span: 0Hz

Sweep time: more than two pulse trains or more than each type of pulse occupancy time

- 2. Set the EUT to transmit by manually operated. Use the "Delta mark" function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
- 3. Record the plots and Reported.

10.2 TEST SETUP



10.3 TEST RESULT

Note: The level of the peak emission are less than the average limit, so the average factor need not to be tested.

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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting	
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP	
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP	
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP	
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average	

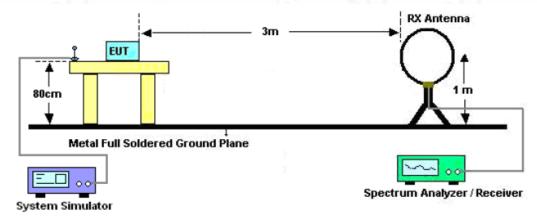
Receiver Parameter	Setting		
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP		
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP		
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP		

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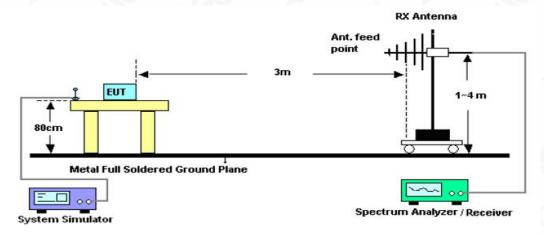


11.2. TEST SETUP

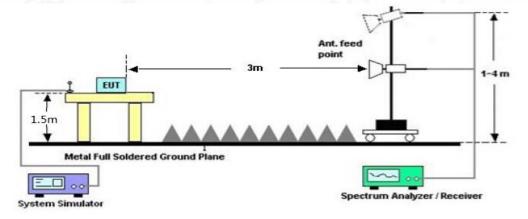
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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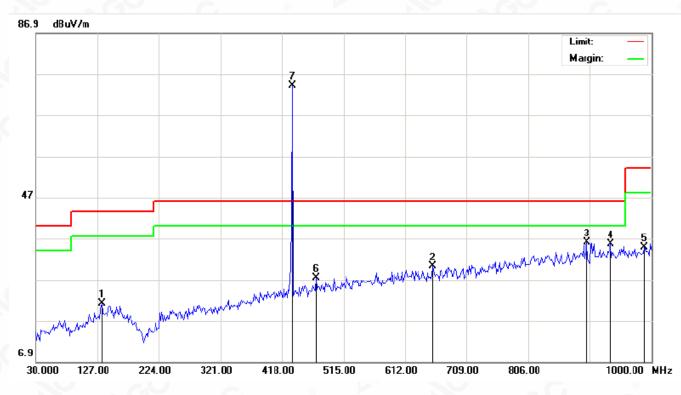
Report No.: AGC02124200505FE03 Page 18 of 32

11.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter RADIATED EMISSION BELOW 30MHz

Emission are more than 20dB below the limit.

RADIATED EMISSION BELOW 1GHZ-Horizontal



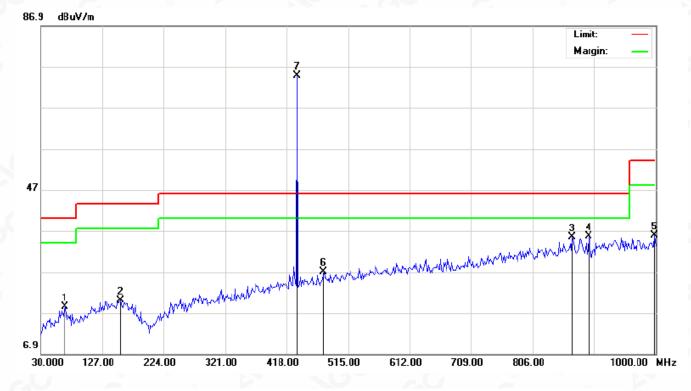
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		133.4667	2.47	18.82	21.29	43.50	-22.21	peak
2		655.6499	2.55	27.62	30.17	46.00	-15.83	peak
3		898.1499	4.24	31.68	35.92	46.00	-10.08	peak
4		935.3333	3.54	32.00	35.54	46.00	-10.46	peak
5		988.6833	2.30	32.46	34.76	54.00	-19.24	peak
6		471.3500	3.07	24.41	27.48	46.00	-18.52	peak
7	*	434.9200	50.54	23.67	74.21	80.80	-6.59	peak

RESULT: PASS

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Report No.: AGC02124200505FE03 Page 19 of 32



RADIATED EMISSION BELOW 1GHZ-Vertical

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		68.7999	1.35	16.96	18.31	40.00	-21.69	peak
2		156.0999	0.85	19.20	20.05	43.50	-23.45	peak
3		869.0499	4.16	31.30	35.46	46.00	-10.54	peak
4		894.9166	3.98	31.63	35.61	46.00	-10.39	peak
5		998.3832	3.19	32.55	35.74	54.00	-18.26	peak
6		476.1999	2.56	24.51	27.07	46.00	-18.93	peak
7	*	434.9200	51.06	23.67	74.73	80.80	-6.07	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. Emissions of frequency range from 1GHz to 5GHz have 20dB margin. No recording in the test report.

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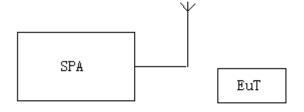


12. BANDWIDTH

12.1. MEASUREMENT PROCEDURE

- 1. Set the parameters of SPA as below: Centre frequency = Operation Frequency RBW=3kHz VBW=10KHz Span: 300kHz
- Sweep time: Auto 2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 3. Record the plots and Reported.

12.2. TEST SETUP



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12.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
63.90kHz	1084.8KHz	Pass
Note: Limit= Operation Frequence	v ×0.25%	0



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13. FCC LINE CONDUCTED EMISSION TEST

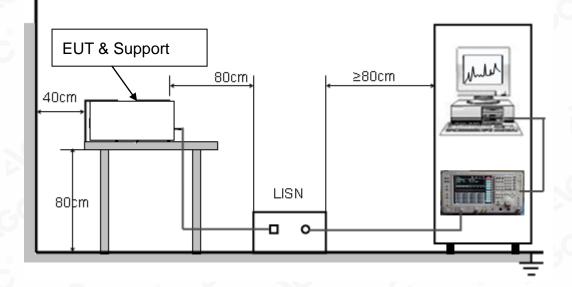
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage			
Frequency	Q.P.(dBuV)	Average(dBuV)		
150kHz~500kHz	66-56	56-46		
500kHz~5MHz	56	46		
5MHz~30MHz	60	50		

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received power which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

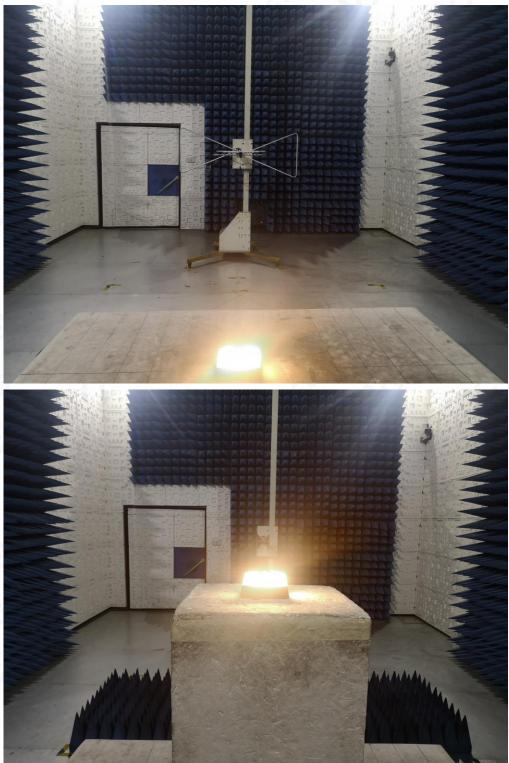
Note: The EUT is powered by battery.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP

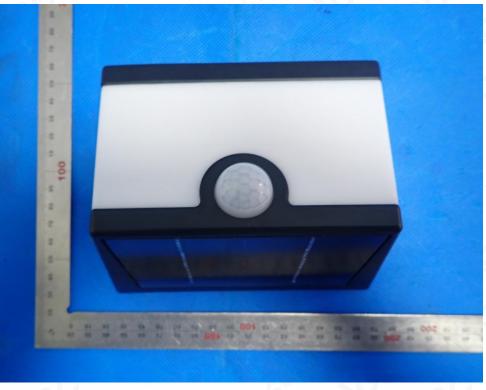


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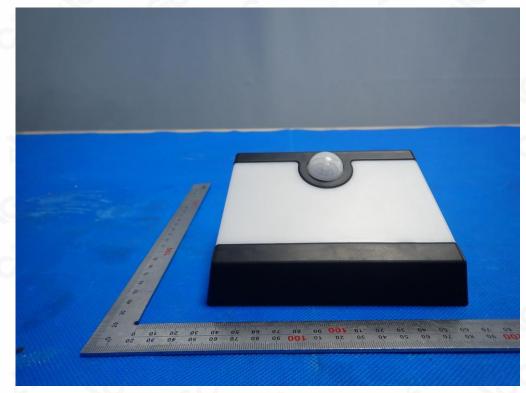


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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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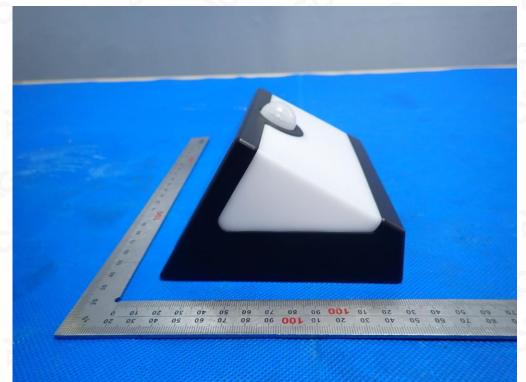
FRONT VIEW OF EUT BACK VIEW OF EUT 001 02 10 09 02 06 00L 01

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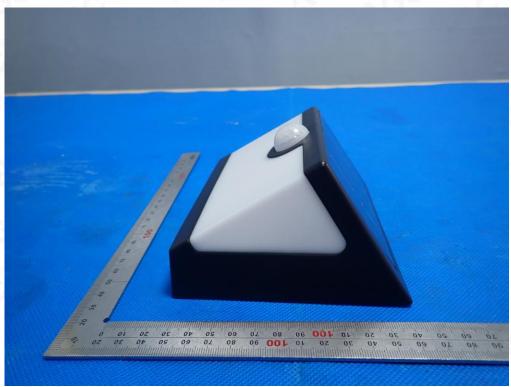


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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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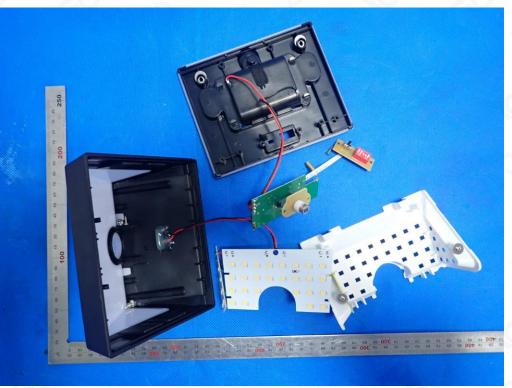


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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2

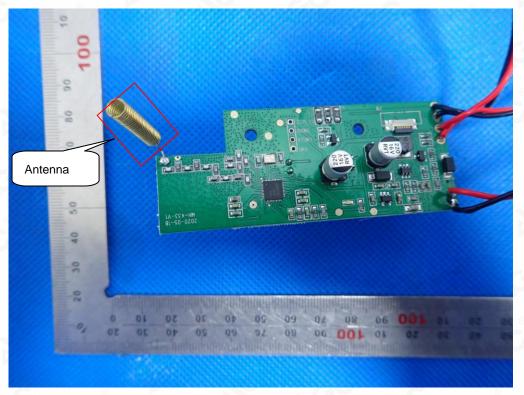


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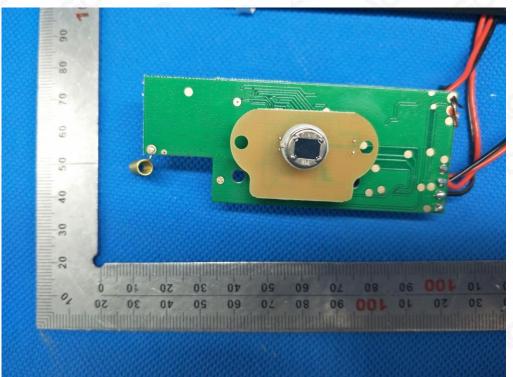


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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

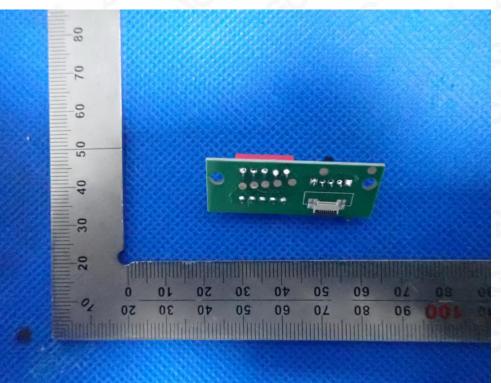


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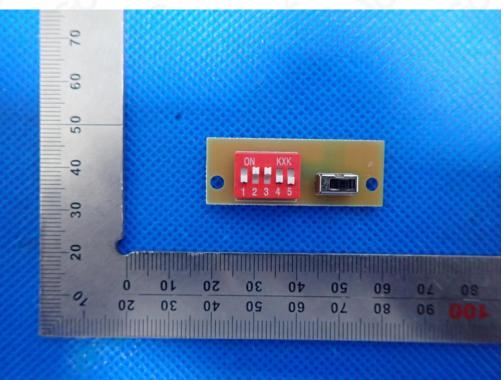


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INTERNAL VIEW-3 OF EUT

INTERNAL VIEW-4 OF EUT



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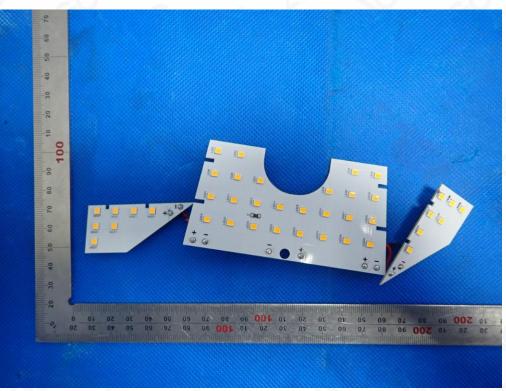


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INTERNAL VIEW-5 OF EUT

INTERNAL VIEW-6 OF EUT

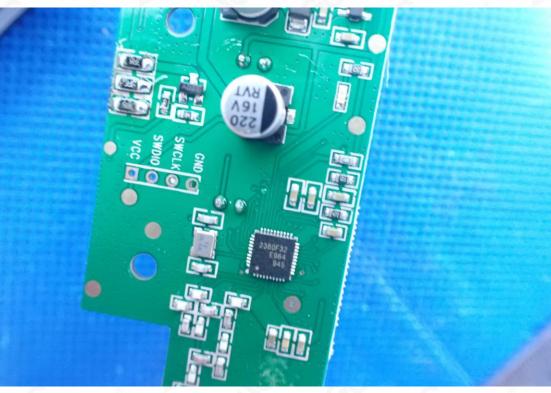


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INTERNAL VIEW-7 OF EUT



----END OF REPORT----

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