

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC**Gamma LED sconce 5CCT light****Test Model: SCO-GA5C-BL****Additional Model No.: SCO-GA5C-XXXXXX("XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))**

Prepared for : ARTIKA FOR LIVING INC
Address : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
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Date of receipt of test sample : August 22, 2024
Number of tested samples : 1
Serial number : Prototype
Sample No. : H240812001001
Date of Test : August 22, 2024 to August 24, 2024
Date of Report : August 24, 2024





TEST REPORT

Report No. : **LCSA08014308E**

Date of Issue..... : August 24, 2024

Testing Laboratory Name : **Shenzhen LCS Compliance Testing Laboratory Ltd.**

Address..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park
Yabianxueziwei, Shajing Street, Baoan District,
Shenzhen, 518000, China

Testing Location/ Procedure : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □

Applicant's Name..... : **ARTIKA FOR LIVING INC**

Address..... : 1756 50th avenue, Lachine, Qc, Canada H8T 2V5

Test Specification

Standard : FCC 47 CFR Part 15, Subpart B
ANSI C63.4-2014

Test Report Form No. : TRF-4-E-010 A/0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description. : **Gamma LED sconce 5CCT light**

Trade Mark..... : Artika

Test Model : SCO-GA5C-BL

Result..... : **Positive**

Compiled by:

Supervised by:

Approved by:

Emma wang / File Administrator

Cary Luo/ Technique principal

Gavin Liang / Manager





TEST REPORT

Test Report No.: LCSA08014308E	<u>August 24, 2024</u> Date of issue
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Test Model	: SCO-GA5C-BL
EUT	: Gamma LED sconce 5CCT light
Applicant	: ARTIKA FOR LIVING INC
Address	: 1756 50th avenue, Lachine, Qc, Canada H8T 2V5
Telephone	: /
Fax	: /
Manufacturer	: ZHONGSHAN C5 LIGHTING CO. LTD
Address	: 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China.
Telephone	: /
Fax	: /
Factory	: ZHONGSHAN C5 LIGHTING CO. LTD
Address	: 1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan, Guangdong, China.
Telephone	: /
Fax	: /

Test Result	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 24, 2024	Initial Issue	/





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1. SUMMARY OF STANDARDS AND RESULTS

1.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Limits	Result
Conducted emissions on AC mains	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.107, Class B	Pass
Radiated emissions (Below 1GHz)	FCC 47 CFR Part 15, Subpart B ANSI C63.4-2014	15.109, Class B	Pass





1.2 Description of Test Modes

No	Title	Description
TM1	Working(AC 120V/60Hz)	Record





2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	: Gamma LED sconce 5CCT light
Test Model	: SCO-GA5C-BL
Additional Model No.	: SCO-GA5C-XXXXXX("XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code))
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	: 120V~, 60Hz, 10W
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
$F_x \leq 1.705\text{MHz}$	30MHz
$1.705\text{MHz} < F_x \leq 108\text{MHz}$	1GHz
$108\text{MHz} < F_x \leq 500\text{MHz}$	2GHz
$500\text{MHz} < F_x \leq 1000\text{MHz}$	5GHz
$F_x > 1\text{GHz}$	5 x Fx up to a maximum of 40GHz

2.2 Support equipment List

The EUT was tested as an independent device.

2.3 Description of Test Facility

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

NVLAP Accreditation Code is 600167-0.
 FCC Designation Number is CN5024.
 CAB identifier is CN0071.
 CNAS Registration Number is L4595.
 Test Firm Registration Number: 254912.

2.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (150kHz to 30MHz)	$\pm 2.35\text{ dB}$
Radiated Emission (30MHz to 1000MHz)	$\pm 3.48\text{ dB}$
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





3. MEASURING DEVICES AND TEST EQUIPMENT

Conducted emissions on AC mains					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESR3	102312	2024-03-02	2025-03-01

Radiated emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
EMI Test Software	AUDIX	E3	/	/	/
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
EMI Test Receiver	R&S	ESR3	102311	2024-06-06	2025-06-05
Broadband Preamp	/	BP-01M18G	P190501	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01565	2024-07-13	2025-07-12





4. EMISSION TEST RESULTS (EMI)

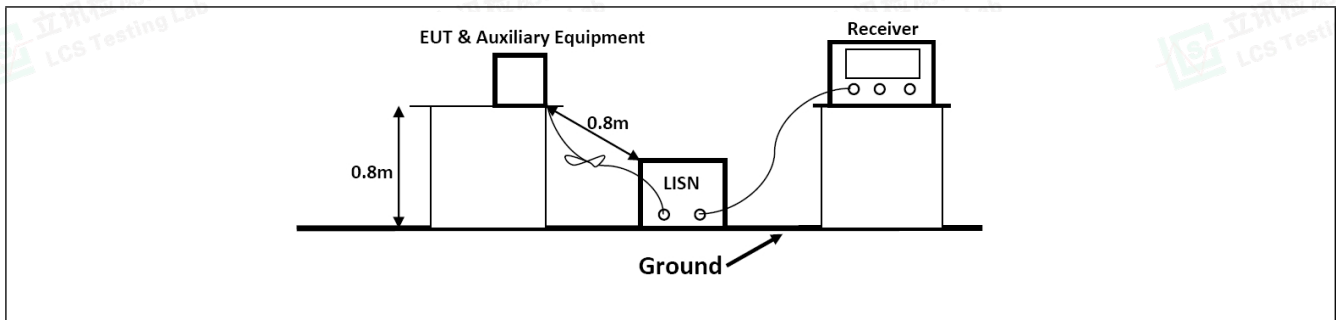
4.1 Conducted emissions on AC mains

Test Requirement:	15.107, Class B		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.4-2014		
Procedure:	An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected. Remark: Level= Read Level+ Cable Loss+ LISN Factor		

4.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	23 °C	Humidity:	52 %
Pre test mode:	TM1		
Final test mode:	TM1		

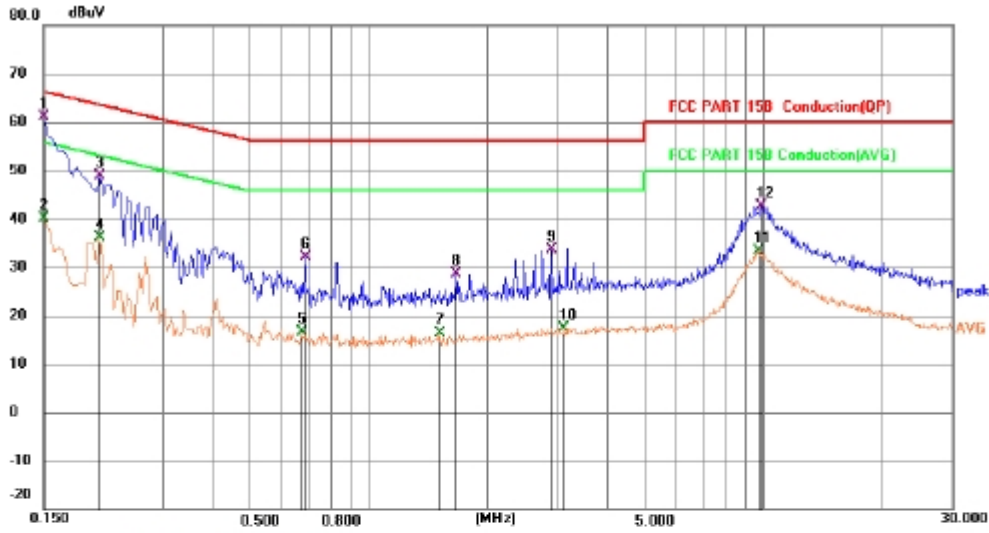
4.1.2 Test Setup Diagram:





4.1.3 Test Data:

TM1 / Line: Line

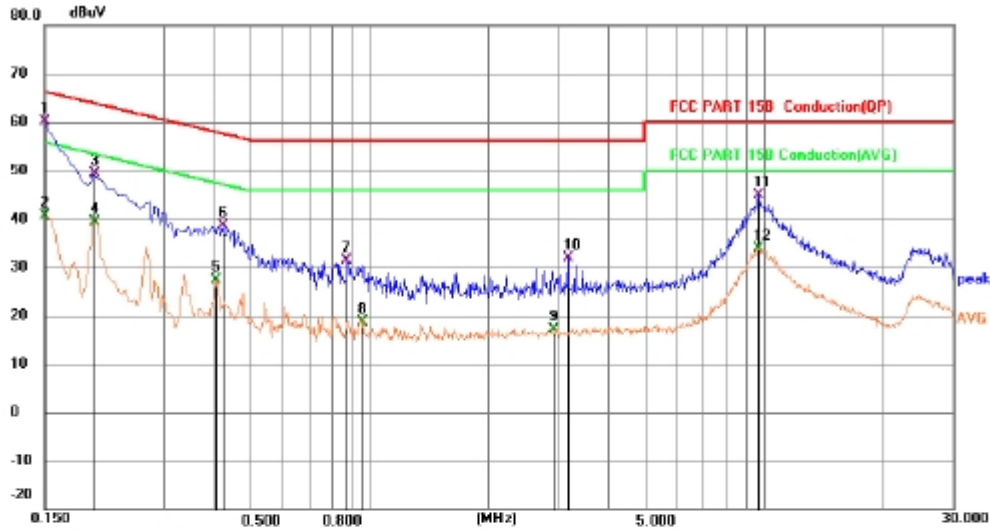


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	41.45	19.63	61.08	66.00	-4.92	QP	
2		0.1500	20.55	19.63	40.18	56.00	-15.82	AVG	
3		0.2086	29.16	19.63	48.79	63.26	-14.47	QP	
4		0.2086	16.39	19.63	36.02	53.26	-17.24	AVG	
5		0.8765	-2.92	19.65	16.73	46.00	-29.27	AVG	
6		0.8900	12.44	19.65	32.09	56.00	-23.91	QP	
7		1.5135	-3.29	19.67	16.38	46.00	-29.62	AVG	
8		1.6665	9.06	19.67	28.73	56.00	-27.27	QP	
9		2.8951	13.95	19.68	33.63	56.00	-22.37	QP	
10		3.1291	-2.21	19.70	17.49	46.00	-28.51	AVG	
11		9.8948	13.62	19.84	33.46	50.00	-16.54	AVG	
12		9.8701	22.78	19.85	42.63	60.00	-17.37	QP	peak





TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	40.49	19.63	60.12	66.00	-5.88	QP	
2		0.1500	20.90	19.63	40.53	56.00	-15.47	AVG	
3		0.1996	29.64	19.63	49.27	63.63	-14.36	QP	
4		0.1996	19.82	19.63	39.45	53.63	-14.18	AVG	
5		0.4066	7.81	19.63	27.44	47.72	-20.28	AVG	
6		0.4246	18.91	19.63	38.54	57.36	-18.82	QP	
7		0.8790	11.84	19.64	31.48	56.00	-24.52	QP	
8		0.9600	-1.05	19.65	18.80	46.00	-27.40	AVG	
9		2.9176	-2.48	19.73	17.25	46.00	-28.75	AVG	
10		3.1876	12.18	19.76	31.94	56.00	-24.06	QP	
11		9.6766	25.07	19.85	44.92	60.00	-15.08	QP	
12		9.6766	14.03	19.85	33.88	50.00	-16.12	AVG	

***Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor-Limit

Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limitter





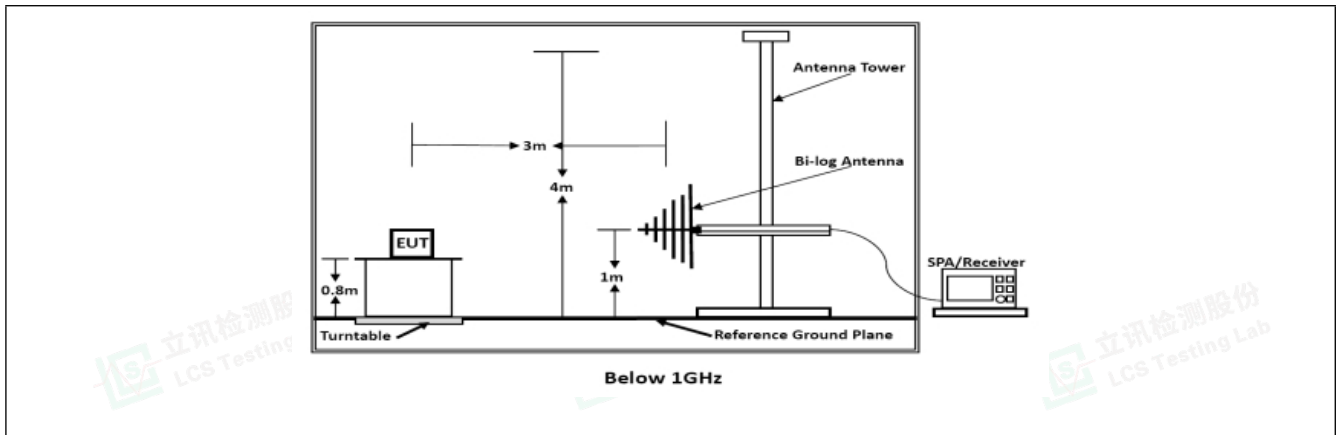
4.2 Radiated emissions (Below 1GHz)

Test Requirement:	15.109, Class B				
Test Limit:	Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:				
	Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
		(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
	30 – 88	100	40	30	29.5
	88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6	
Above 960	500	54	150	43.5	
Test Method:	ANSI C63.4-2014				
Procedure:	An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor				

4.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26.4 °C	Humidity:	54.2 %
Pre test mode:	TM1		
Final test mode:	TM1		

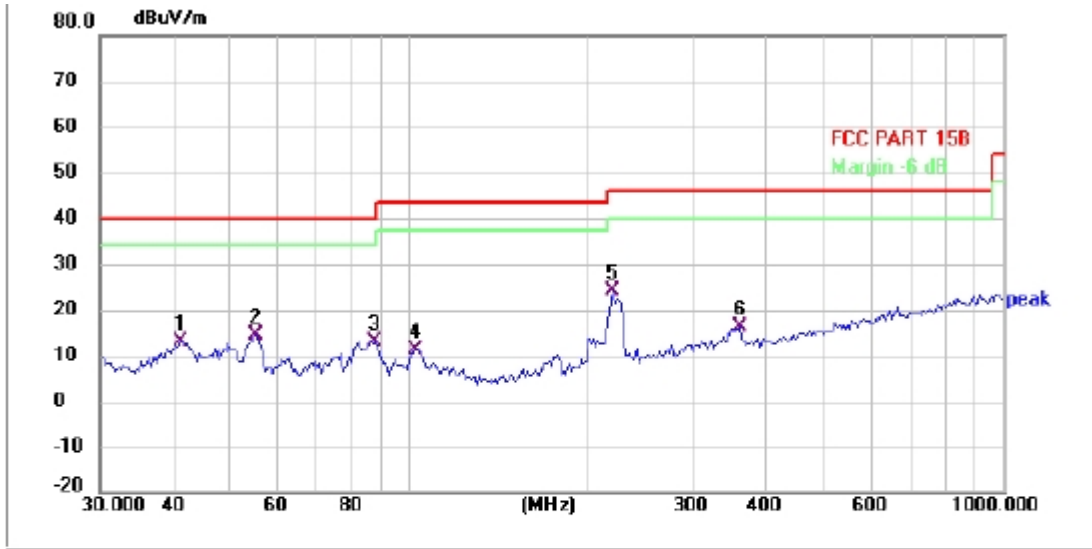
4.2.2 Test Setup Diagram:





4.2.3 Test Data:

TM1 / Polarization: Horizontal

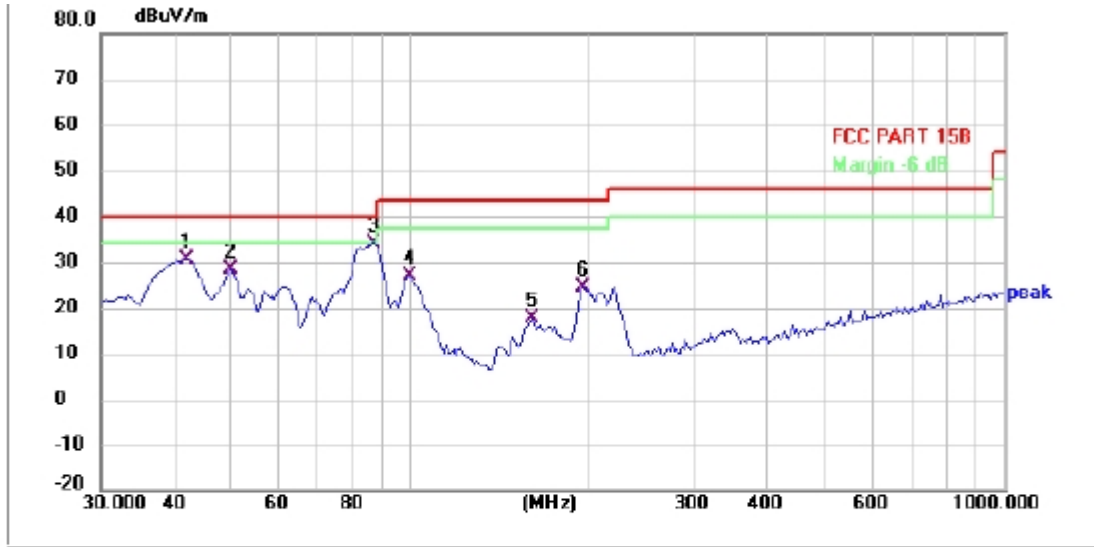


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	41.132	30.17	-17.07	13.10	40.00	-26.90	QP	P	
2	54.835	31.36	-16.93	14.43	40.00	-25.57	QP	P	
3	87.112	33.86	-20.82	13.04	40.00	-26.96	QP	P	
4	102.360	29.85	-18.47	11.38	43.50	-32.12	QP	P	
5 *	219.845	41.90	-17.88	24.02	46.00	-21.98	QP	P	
6	359.186	31.36	-15.07	16.29	46.00	-29.71	QP	P	





TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	41.713	47.62	-16.93	30.69	40.00	-9.31	QP	P	
2	49.707	44.61	-16.09	28.52	40.00	-11.48	QP	P	
3 *	86.503	55.06	-20.94	34.12	40.00	-5.88	QP	P	
4	99.528	45.63	-18.56	27.07	43.50	-16.43	QP	P	
5	160.346	38.94	-21.36	17.58	43.50	-25.92	QP	P	
6	195.136	43.33	-18.90	24.43	43.50	-19.07	QP	P	

Note:1).Pre-Scan all mode, Thus record worse case mode result in this report.

2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





5. TEST SETUP PHOTOS

Refer to Appendix - Test Setup Photos for LCSA08014308E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA08014308E.docx

--- End of Report ---

