FCC Part 15, Subpart B, Class B

ARTIKA FOR LIVING INC.

Luminaire

Test Model: VAN1-FC

Additional Model No.: VAN1-FC-XXXXXX

("X" can be A to Z and/or 0 to 9 and/or blank (commercial code))

Prepared for Address	ARTIKA FOR LIVING INC.1756 50th avenue, Lachine, Qc, CanadaH8T 2V5
Prepared by Address	 Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel Fax Web Mail	: (+86)755-82591330 : (+86)755-82591332 : www.LCS-cert.com : webmaster@LCS-cert.com
Date of receipt of test sample Number of tested samples Sample No. Serial number Date of Test Date of Report	 December 04, 2020 2 201123205A-1, 201123205A-2 Prototype December 04, 2020 ~ December 10, 2020 December 15, 2020



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

Report Reference No:	LCS201123205AE		
Date Of Issue	December 15, 2020		
Testing Laboratory Name :	Shenzhen LCS Compliance Test	ing Laboratory Ltd.	
Address ² Testing Location/ Procedure ²			
Applicant's Name	ARTIKA FOR LIVING INC.		
Address	1756 50th avenue, Lachine, Qc, Ca	anadaH8T 2V5	
Test Specification			
Standard [:]	FCC 47 CFR Part 15 Subpart B, C -2014	ass B, ANSI C63.4	
Test Report Form No [:]	LCSEMC-1.0		
TRF Originator	Shenzhen LCS Compliance Testing Laboratory Ltd.		
Master TRF	: Dated 2011-03		
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Test Item Description :	Luminaire		
Test Model	VAN1-FC		
Trade Mark:	Artiko		
		Max Jax	
	Input: AC 100-135V, 50-60Hz, 0.4A Output: DC 22-27V, 300mA, 12W M	Max Iax	
Ratings:	Input: AC 100-135V, 50-60Hz, 0.4A Output: DC 22-27V, 300mA, 12W M	Max Max Approved by:	
Ratings:	Input: AC 100-135V, 50-60Hz, 0.4A Output: DC 22-27V, 300mA, 12W M Positive		
Ratings : Result:	Input: AC 100-135V, 50-60Hz, 0.4A Output: DC 22-27V, 300mA, 12W M Positive Supervised by: Jin Wang	Approved by:	
Ratings: Result: Compiled by: Jaydan 2huo	Input: AC 100-135V, 50-60Hz, 0.4A Output: DC 22-27V, 300mA, 12W M Positive Supervised by: Jin Wang	Approved by: Gains Fiang	

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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCCID: 2AYFP-VAN1-FC	
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Report No.: LCS201123205AE

FCC -- TEST REPORT

Т

Test Report No. : LCS201123205AE	December 15, 2020 Date of issue
Test Model : VAN1-FC	
EUT : Luminaire	

Applicant	: ARTIKA FOR LIVING INC.
Address	: 1756 50th avenue, Lachine, Qc, CanadaH8T 2V5
Telephone	:/
Fax	:/
	: RISING-SUN LIGHTING Co., Ltd
Address	 San Shi Liu Lang Industrial Area, Shilong Village Group, Langxin Village, Danzao, Town, Nanhai District, Foshan Guangdong 528216, China
Telephone	:/
Fax	:/
Factory	:RISING-SUN LIGHTING Co., Ltd
Address	: San Shi Liu Lang Industrial Area, Shilong Village Group,
	Langxin Village,Danzao, Town, Nanhai District, Foshan
	Guangdong 528216, China
Telephone	
Fax	:/

Test Result according to the standards on page 6: Positive

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

Revision	Issue Date	Revisions	Revised By
000	December 15, 2020	Initial Issue	Gavin Liang

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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.

Conducted disturbance at mains terminals FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014 Class B PA Padiated disturbance FCC 47 CFR Part 15 Subpart B, Class Class B PA	EMISSION			
at mains terminals B, ANSI C63.4 -2014 Class B PA Padiated disturbance FCC 47 CFR Part 15 Subpart B, Class Class B DA	Description of Test Item	Standard	Limits	Results
			Class B	PASS
B, ANSI C63.4 -2014	Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS

N/A is an abbreviation for Not Applicable.

Test mode:		
Mode	Lighting	Record
***Note: All test modes were tested, but we only recorded the worst case in this report.		

2. GENERAL INFORMATION

- 2.1. Description of Device (EUT)
 - EUT : Luminaire
 - Trade Mark : Artika
 - Test Model : VAN1-FC
 - Additional Model: VAN1-FC-XXXXXX
("X" 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 testedPower Supply: Input: AC 100-135V, 50-60Hz, 0.4A Max
 - Output: DC 22-27V, 300mA, 12W Max

Highest internal frequency (Fx) Highest measured frequency				
Fx ≤ 108 MHz 1 GHz				
108 MHz < Fx ≤ 500 MHz 2 GHz				
500 MHz < Fx \leq 1 GHz 5 GHz				
Fx > 1 GHz5 × Fx up to a maximum of 6 GHz				
NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest				
frequency generated or used excluding the local oscillator and tuned				
frequencies.				
Where Fx is unknown, the radiated emission measurements shall be performed				

up to 6 GHz.

2.2. Support Equipment List

Name	Manufacturers	M/N	S/N

2.3. Description of Test Facility

Site Description EMC Lab. : NVLAP Accreditation Code is 600167-0. FCC Designation Number is CN5024. CAB identifier is CN0071. CNAS Registration Number is L4595.

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2.4. Statement of the Measurement Uncertainty

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.

2.5. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (Ulab)	Expanded Uncertainty (Ucispr)
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (30MHz to 1000MHz)	\pm 3.48 dB	\pm 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	\pm 3.90 dB	\pm 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

3. TEST RESULTS

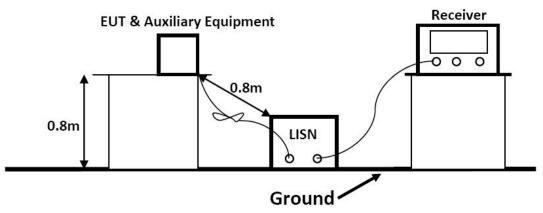
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

	V					
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	EMI Test Receiver	R&S	ESPI	101840	2020-06-22	2021-06-21
3	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21
4	10dB Attenuator	SCHWARZBE CK	MTS-IMP-136	261115-001-0 032	2020-06-22	2021-06-21
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2020-10-20	2021-10-19

3.1.2.Block Diagram of Test Setup



3.1.3.Test Standard

Power Line Conducted Emission Limits (Class B)

l i	Frequenc	;y		Limit (dBµV)			
	(MHz)		Quasi-peak Level	Average Level			
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *			
0.50	~	5.00	56.0	46.0			
5.00	~	30.00	60.0	50.0			

NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4.EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 9 of 17 3.1.5. Operating Condition of EUT

- 3.1.5.1.Setup the EUT as shown on Section 3.1.2
- 3.1.5.2. Turn on the power of all equipments.
- 3.1.5.3.Let the EUT work in measuring Lighting and measure it.

3.1.6.Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

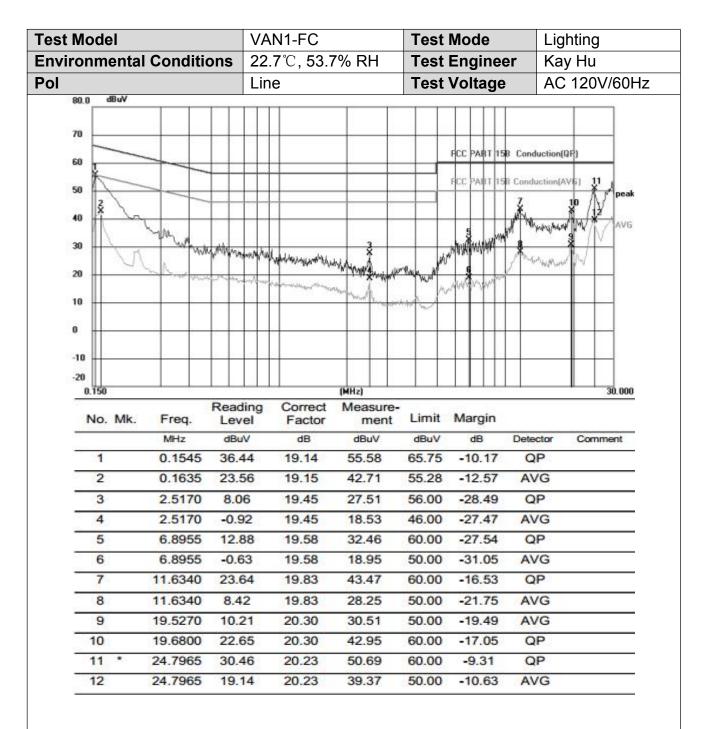
The frequency range from 150kHz to 30MHz is investigated

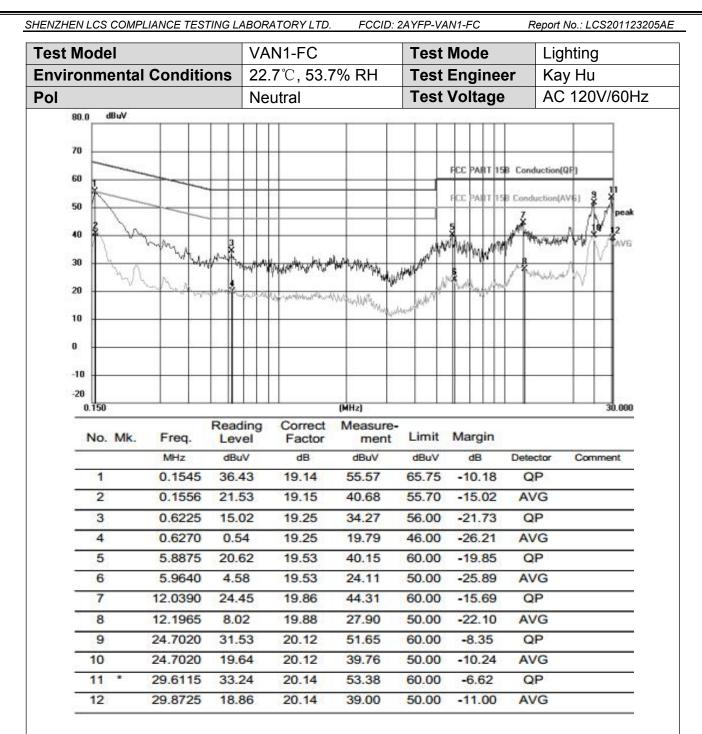
3.1.7.Test Results

PASS.

The test result please refer to the next page.

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

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

2). Margin=Reading level + Correct - Limit

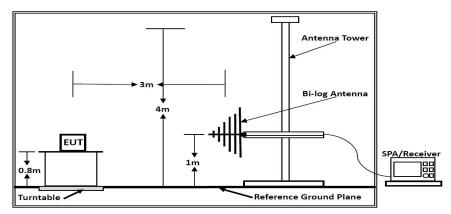
3.2. Radiated emission Measurement

3.2.1. Test Equipment

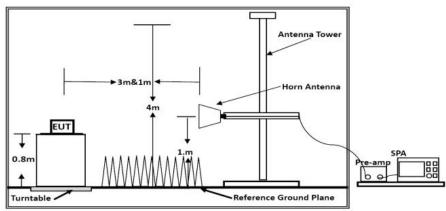
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
2	By-log Antenna	SCHWARZBECK	VULB9163			2021-07-25
3	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-192 5	2018-07-02	2021-07-01
4	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
5	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-22	2021-06-21

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz

3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

	S IUI Raulaleu DISI			
FREQUENCY	DISTANCE	FIELD STRE	NGTHS LIMIT	
MHz	Meters	μV/m	dB(μV)/m	
30 ~ 88	3	100	40	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46	
960 ~ 1000	3	500	54	
Remark: (1) Emission I	evel (dB)µV = 20 l	og Emission level	μV/m	
(2) The small	er limit shall apply	at the cross point	between two	
frequency	bands.			
(3) Distance i	s the distance in m	eters between the	e measuring	
instrument, a	antenna and the cl	osest point of any	part of the	
device or sys	stem.			
Limits	for Radiated Emiss	sion Above 1GHz		
Frequency	Distance	Peak Limit	Average Limit	
(MHz)	(Meters)	(dBµV/m)	(dBµV/m)	
Above 1000	3	74	54	
***Note: The lower limit	applies at the tran	sition frequency.		

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2.Let the EUT work in test Lighting and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 300kHz. The frequency range from 30MHz to 1000MHz is checked.

3.2.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page.

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SHENZHE	NLCS CO	MPLIANC	E TES	TING	LABC	DRATOR	YLTD. FO	CCID: 2AYFP-\	/AN1-FC	Repo	ort No.:	LCS201123205.	
Test Model					V	'AN1-	FC	Test	Mode	Lighting			
Enviro	onment	al Cor	nditio	ons	2	4.6℃ ,	54.1% R	H Dete	ctor Funct	ion	Quasi-peak		
Pol						'ertica		Dista			3m		
		er			K	lay Hu	l	Test Voltage AC 120V/60H					
19	80.0 dBu/				T			1					
10	70	_	_	-	-						-		
31	60										_		
10								F	CC Part15 RE-Clas	B_30-10	DONHZ		
	50												
8	40			-									
	30		-									6	
	20	Marinikus	ALCONTRA .			3		3	4	min	uput		
	-	-		himak	much	rann	whenhand	hanning	Republication				
	10								· · · · · · · · · · · · · · · · · · ·				
30	0	-	-	-	+						-		
3	-10		_	_	-				· · · · ·		_		
63	-20												
	30.000	-	60		_	100	(MHz)	T	1	00		1000.0	
	No.		uenc IHz)	У		ading BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Marg (dB		etector	
	1	46.	3402		51	.74	-28.19	23.55	40.00	-16.4	15	QP	
	2	103	.4421	10	49	.10	-30.26	18.84	43.50	-24.6	66	QP	
	3	254	7284		45	.81	-28.27	17.54	46.00	-28.4	16	QP	
	4	307	8313		46	.47	-27.16	19.31	46.00	-26.6	39	QP	
	5	605	.6592	2	44	.31	-21.01	23.30	46.00	-22.7	70	QP	
	6	1000	4399	-		.21	-18.54	25.67	46.00	-20.3	-	QP	

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Test Model					VAN1-FC Test Mode					Lighting	
nviro	nment	al Co	ndition	IS 2	24.6℃, 54.1% RH Detector Function					Quasi-peak	
ol					Horizoi		Dista Test		ßm		
	nginee			ŀ	Kay Ηι	AC 120V/60H					
80	0 dBuV	m			11		1				
70											
60											
60						FC	C Part15 RE-Class	B_30-1000N	Hz		
50	-		_		++-				Marq	-6 98	
40				- 2							
10							-				
30	-				++-				-	5	
20	and	rennen	-AMAL			Ž.	3	1	mannen	ale and the second	
20	- Marine		NAME AND	market	Antoman	" " " " hypert	10 MM Hayman Astron	Philippine Property of			
10	-										
0											
1-1-1-1											
-10	8										
-20	30.000		60		100	(MHz)		5	00	1000.0	
	1	-		-							
	No.		uency IHz)		ading BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	140.	1						10.00	40.40	QP	
	1		8814	5	1.78	-28.20	23.58	40.00	-16.42	UP I	
		49.		100	1.78 4.65	-28.20 -33.26	23.58 21.39	40.00 43.50	-16.42	QP	
-	1	49.0 126.	8814	54				· 2010/03			
-	1 2	49.0 126. 199.	8814 .7723	54 49	4.65	-33.26	21.39	43.50	-22.11	QP	
-	1 2 3	49.0 126. 199. 311.	8814 .7723 .2855	54 49 47	4.65 9.61	-33.26 -30.07	21.39 19.54	43.50 43.50	-22.11 -23.96	QP QP	

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

***Note:

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

2). Emission level (dBuV/m) = 20 log Emission level (uV/m).

3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

Report No.: LCS201123205AE

4.TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

5.EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

6. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT------