FCC TEST REPORT

For

ARTIKA FOR LIVING INC

Flint FM 21” Pro Black

Test Model: 21FM-FLC-MB10TE10-J

Additional Model No.: 21FM-FLC-XXXXX(“X” 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.
Address	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel	:	+(86) 0755-82591330
Fax	:	+(86) 0755-82591332
Web	:	www.lcs-cert.com
Mail	:	webmaster@lcs-cert.com
Date of receipt of test sample	:	May 27, 2024
Number of tested samples	:	1
Serial number	:	Prototype
Sample No.	:	B240522025001
Date of Test	:	May 27, 2024 to May 30, 2024
Date of Report	:	May 31, 2024

TEST REPORT

Report No.	:	**LCSA05064405E**
Date of Issue	:	May 31, 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.	:	LCSEMC-1.0
TRF Originator	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	:	Dated 2011-03

Test Item Description.	:	**Flint FM 21" Pro Black**
Trade Mark	:	Artika
Test Model	:	21FM-FLC-MB10TE10-J
Result	:	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Emma wang / File Administrator	Baron Wen / Technique principal	Gavin Liang / Manager

TEST REPORT

Test Report No.: LCSA05064405E	May 31, 2024 Date of issue

Test Model	:	**21FM-FLC-MB10TE10-J**
EUT	:	Flint FM 21” Pro Black
Applicant	:	**ARTIKA FOR LIVING INC**
Address	:	1756 50th avenue, Lachine, Qc, Canada H8T 2V5
Telephone	:	/
Fax	:	/
Manufacturer	:	**Zhongshan Jiafeng Lighting Co., Ltd.**
Address	:	No. 18, Fuqing 4th Road, Yongxing Industrial Park, Henglan Town, Zhongshan City, Guangdong, China
Telephone	:	/
Fax	:	/
Factory	:	**Zhongshan Jiafeng Lighting Co., Ltd.**
Address	:	No. 18, Fuqing 4th Road, Yongxing Industrial Park, Henglan Town, Zhongshan City, Guangdong, China
Telephone	:	/
Fax	:	/

Test Result	**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

Report Version	Issue Date	Revision Content	Revised By
000	May 31, 2024	Initial Issue	/

TABLE OF CONTENTS

Test Report Description Page

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	: Flint FM 21” Pro Black
Test Model	: 21FM-FLC-MB10TE10-J
Additional Model No.	: 21FM-FLC-XXXXX(“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 tested.
Power Supply	: 120V~, 60Hz, 38W
Highest Internal Frequency	: 1.705-108MHz
Classification of Equipment	: Class B

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 1.705MHz	30MHz
1.705MHz < Fx ≤ 108MHz	1GHz
108MHz < Fx ≤ 500MHz	2GHz
500MHz < Fx ≤ 1000MHz	5GHz
Fx > 1GHz	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)	± 2.35 dB
Radiated Emission (30MHz to 1000MHz)	± 3.48 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	2023-06-09	2024-06-08
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14
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	2023-08-15	2024-08-14
Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-09	2024-06-08
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01428	2023-09-05	2024-09-04
Antenna Mast	Max-Full	MFA-515BSN	1308572	/	/

4. EMISSION TEST RESULTS (EMI)

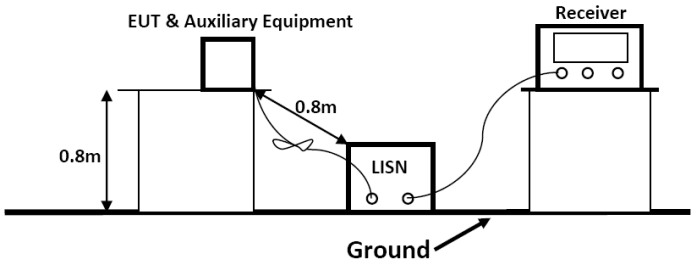
4.1 Conducted emissions on AC mains

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:	24.4 °C	Humidity:	53 %
Pretest mode:	TM1		
Final test mode:	TM1		

4.1.2 Test Setup Diagram:



4.1.3 Disturbance Calculation

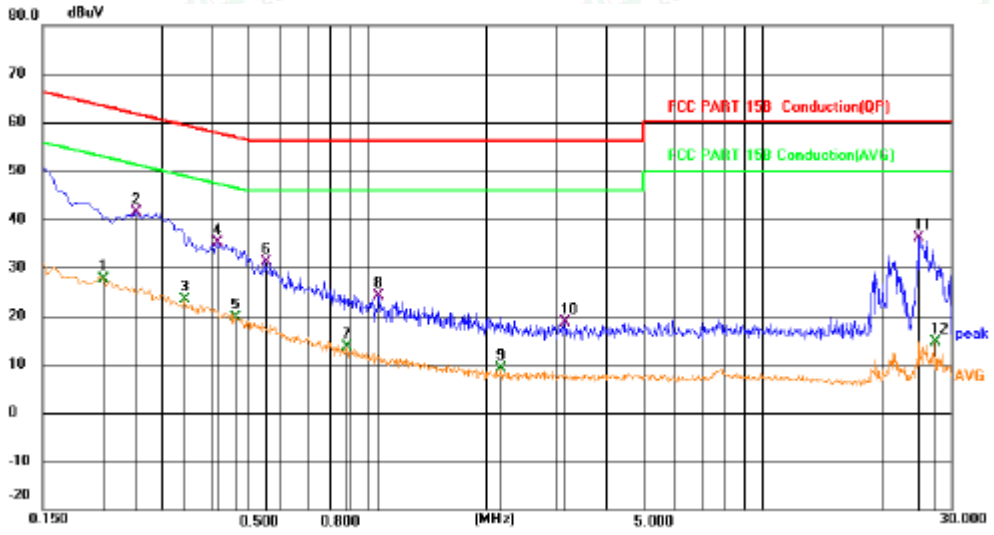
The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

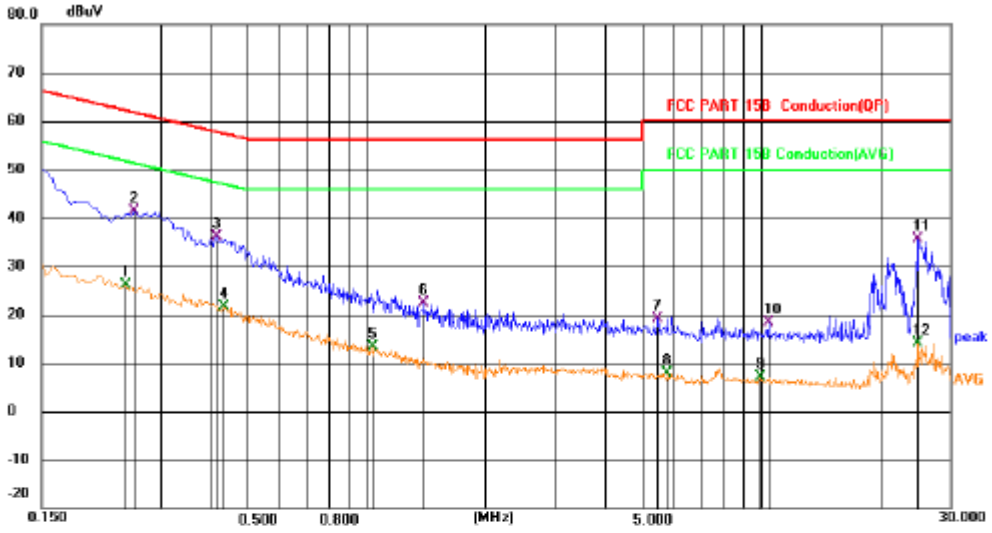
4.1.4 Test Data:

TM1 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2139	17.55	10.09	27.64	53.05	-25.41	AVG	
2	*	0.2581	31.18	10.09	41.27	61.49	-20.22	QP	
3		0.3436	13.45	10.03	23.48	49.12	-25.64	AVG	
4		0.4156	24.97	10.04	35.01	57.54	-22.53	QP	
5		0.4651	9.57	10.06	19.63	46.60	-26.97	AVG	
6		0.5505	21.13	10.06	31.19	56.00	-24.81	QP	
7		0.8880	3.67	9.99	13.66	46.00	-32.34	AVG	
8		1.0680	14.16	9.99	24.15	56.00	-31.85	QP	
9		2.1840	-1.01	10.03	9.02	46.00	-36.98	AVG	
10		3.1561	8.54	10.01	18.55	56.00	-37.45	QP	
11		24.9856	26.00	10.16	36.16	60.00	-23.84	QP	
12		27.3436	4.46	10.17	14.63	50.00	-35.37	AVG	

TM1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2446	16.00	10.09	26.09	51.94	-25.85	AVG	
2	*	0.2581	31.18	10.09	41.27	61.49	-20.22	QP	
3		0.4156	25.97	10.04	36.01	57.54	-21.53	QP	
4		0.4336	11.60	10.05	21.65	47.18	-25.53	AVG	
5		1.0320	3.33	9.99	13.32	46.00	-32.68	AVG	
6		1.3965	12.35	10.00	22.35	56.00	-33.65	QP	
7		5.4511	9.03	9.99	19.02	60.00	-40.98	QP	
8		5.8021	-2.04	9.98	7.94	50.00	-42.06	AVG	
9		9.9286	-2.96	10.04	7.08	50.00	-42.92	AVG	
10		10.4146	8.32	10.04	18.36	60.00	-41.64	QP	
11		24.9856	25.50	10.16	35.66	60.00	-24.34	QP	
12		24.9856	3.92	10.16	14.08	50.00	-35.92	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:

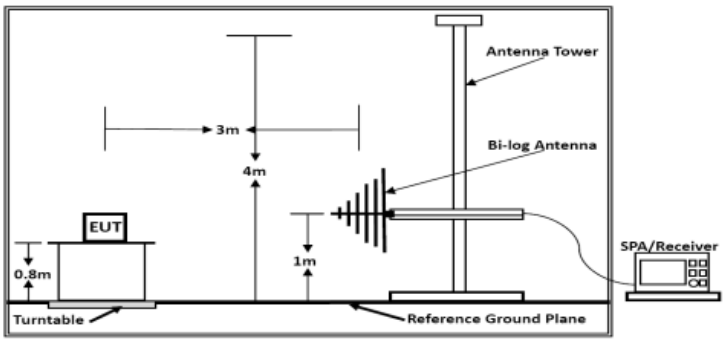
Frequency of emission (MHz)	Field strength @3m		Field strength @10m	
	(uV/m)	(dBuV/m)	(uV/m)	(dBuV/m)
30 – 88	100	40	30	29.5
88 – 216	150	43.5	45	33.1
216 – 960	200	46	60	35.6
Above 960	500	54	150	43.5

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:



Below 1GHz

4.2.3 Field Strength Calculation

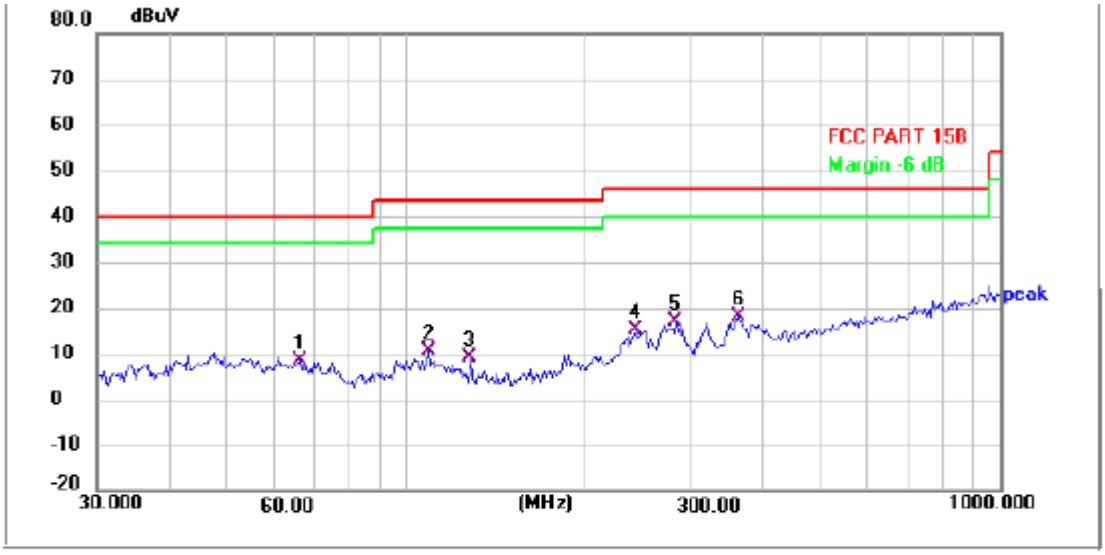
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) – AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

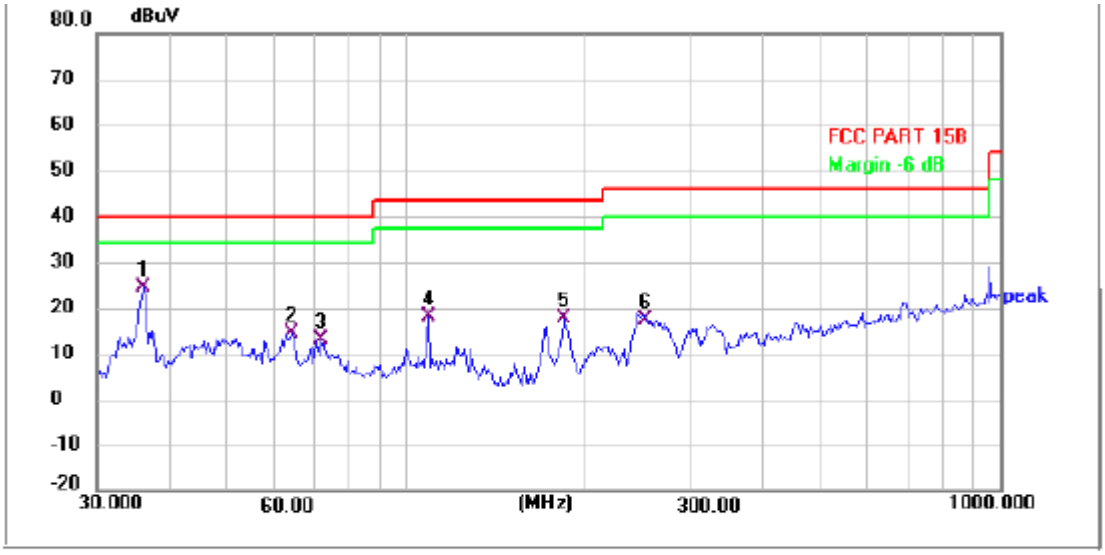
4.2.4 Test Data:

TM1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	65.9067	28.53	-20.11	8.42	40.00	-31.58	QP			P	
2	108.5455	29.89	-19.46	10.43	43.50	-33.07	QP			P	
3	128.4861	31.87	-22.65	9.22	43.50	-34.28	QP			P	
4	243.5431	33.01	-17.98	15.03	46.00	-30.97	QP			P	
5	284.2606	33.87	-16.99	16.88	46.00	-29.12	QP			P	
6 *	360.9775	33.35	-15.49	17.86	46.00	-28.14	QP			P	

TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	36.0139	43.52	-19.22	24.30	40.00	-15.70	QP			P	
2	64.0800	34.00	-19.68	14.32	40.00	-25.68	QP			P	
3	71.7054	34.42	-21.39	13.03	40.00	-26.97	QP			P	
4	108.5455	37.37	-19.46	17.91	43.50	-25.59	QP			P	
5	183.8660	38.46	-20.91	17.55	43.50	-25.95	QP			P	
6	252.2523	35.22	-17.75	17.47	46.00	-28.53	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 LCSA05064405E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA05064405E.docx

--- End of Report ---