

**FCC TEST REPORT**

For

ARTIKA FOR LIVING INC**Atomic FM****Test Model: 15FM-ATO5C-BW**

**Additional Model No.: 15FM-ATO5C-BWN, 15FM-ATO5C-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.
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Date of receipt of test sample : March 17, 2025
Number of tested samples : 1
Serial number : Prototype
Sample No. : B250120042001
Date of Test : March 17, 2025 to March 18, 2025
Date of Report : March 18, 2025



**TEST REPORT****Report No.** : **LCSA02205304E****Date of Issue** : March 18, 2025**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**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description : **Atomic FM****Trade Mark** : ARTIKA**Test Model** : 15FM-ATO5C-BW**Result** : **Positive****Compiled by:**

Emma wang / File Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang / Manager



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TEST REPORT

Test Report No.: LCSA02205304E	<u>March 18, 2025</u> Date of issue
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Test Model	: 15FM-ATO5C-BW
EUT	: Atomic FM
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 Zone, Henglan Town, Zhongshan City, Guangdong, China
Telephone	: /
Fax	: /
Factory	: Zhongshan Jiafeng Lighting Co.,Ltd
Address	: No. 18, Fuqing 4th Road, Yongxing Industrial Zone, Henglan Town, Zhongshan City, 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	March 18, 2025	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	: Atomic FM
Test Model	: 15FM-ATO5C-BW
Additional Model	: 15FM-ATO5C-BWN, 15FM-ATO5C-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	: 100-240V~, 60Hz, 24W
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

Manufacturer	Description	Model	Serial Number	Certificate
/	/	/	/	/

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	2025-03-06	2026-03-05

Radiated emissions (Below 1GHz) (Above 1GHz)

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	AUDIX	E3	/	N/A	N/A
By-log Antenna	SCHWARZBECK	VULB9163	01143	2024-07-20	2027-07-19
Horn Antenna	SCHWARZBECK	3115	EABF-018	2024-07-20	2027-07-19
EMI Test Receiver	R&S	ESR3	102311	2024-06-06	2025-06-05
Broadband Preamplifier	/	BP-01M18G	P190501	2024-06-06	2025-06-05
EMI Test Receiver	R&S	ESCI7	101173	2024-10-06	2025-10-07
By-log Antenna	SchwarzZBECK	VULB9163	01565	2024-07-13	2027-07-12
EMI Test Software	Farad	EZ	/	N/A	N/A





4. EMISSION TEST RESULTS (EMI)

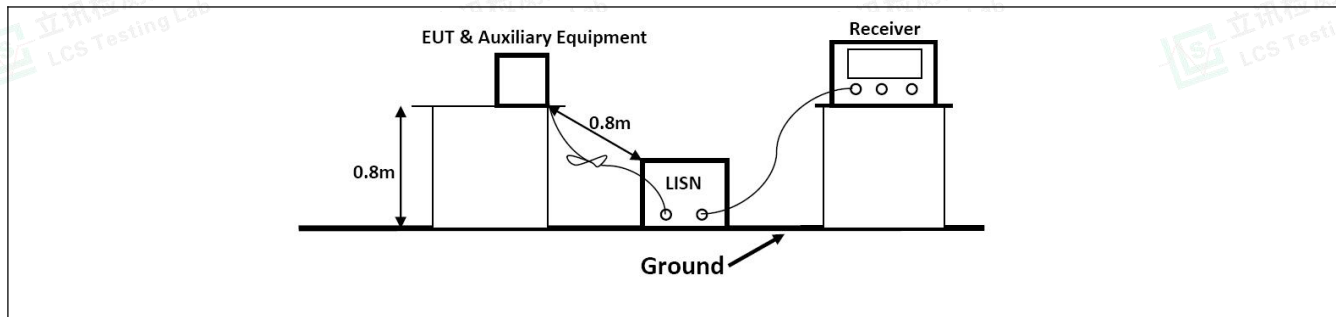
4.1 Conducted emissions on AC mains

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:	22.7 °C	Humidity:	53.7 %
Pre test mode:	TM1		
Final test mode:	TM1		

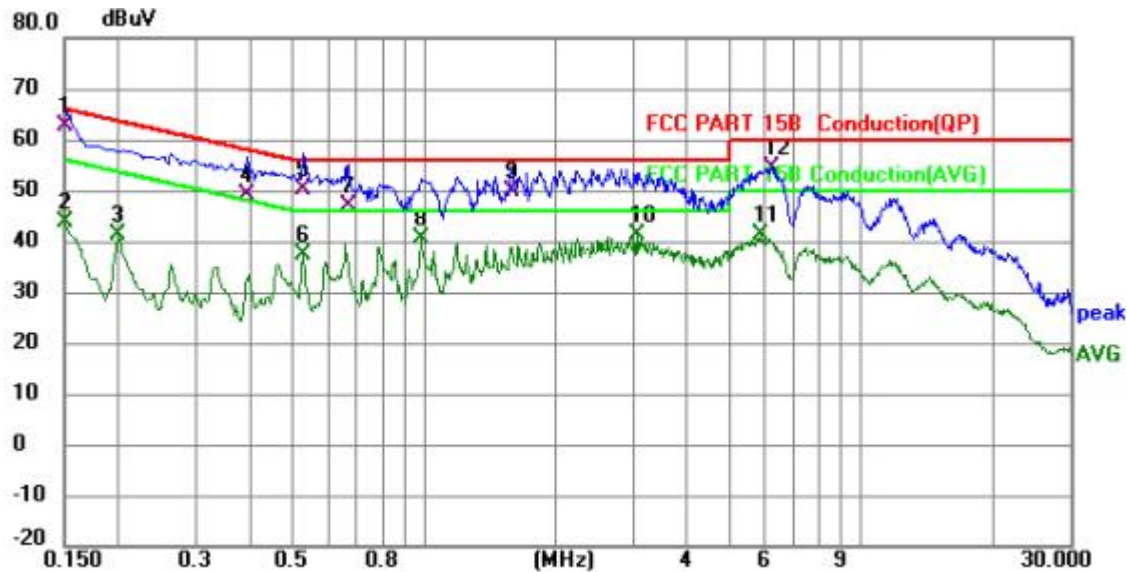
4.1.2 Test Setup Diagram:





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	*	0.150	42.00	20.63	62.63	66.00	-3.37	QP	
2		0.150	23.04	20.63	43.67	56.00	-12.33	AVG	
3		0.200	20.55	20.67	41.22	53.61	-12.39	AVG	
4		0.393	28.19	20.84	49.03	58.00	-8.97	QP	
5		0.528	29.21	20.88	50.09	56.00	-5.91	QP	
6		0.528	16.58	20.88	37.46	46.00	-8.54	AVG	
7		0.667	26.15	20.94	47.09	56.00	-8.91	QP	
8		0.983	19.71	20.94	40.65	46.00	-5.35	AVG	
9		1.585	28.93	20.83	49.76	56.00	-6.24	QP	
10		3.088	20.63	20.79	41.42	46.00	-4.58	AVG	
11		5.910	20.76	20.40	41.16	50.00	-8.84	AVG	
12		6.234	34.05	20.39	54.44	60.00	-5.56	QP	



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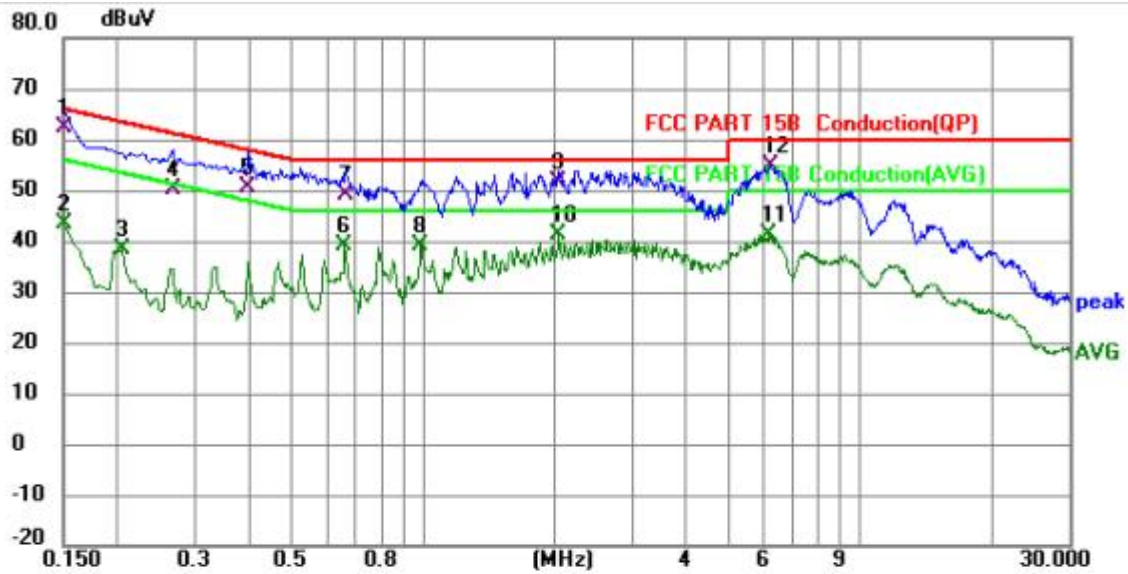
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TM1 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.150	41.89	20.59	62.48	66.00	-3.52	QP	
2		0.150	22.90	20.59	43.49	56.00	-12.51	AVG	
3		0.204	17.69	20.61	38.30	53.45	-15.15	AVG	
4		0.267	29.54	20.68	50.22	61.21	-10.99	QP	
5		0.398	29.56	20.83	50.39	57.90	-7.51	QP	
6		0.658	18.37	20.88	39.25	46.00	-6.75	AVG	
7		0.663	28.34	20.88	49.22	56.00	-6.78	QP	
8		0.987	18.05	20.91	38.96	46.00	-7.04	AVG	
9		2.040	30.80	20.81	51.61	56.00	-4.39	QP	
10		2.040	20.56	20.81	41.37	46.00	-4.63	AVG	
11		6.189	20.84	20.46	41.30	50.00	-8.70	AVG	
12		6.234	34.18	20.47	54.65	60.00	-5.35	QP	

***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





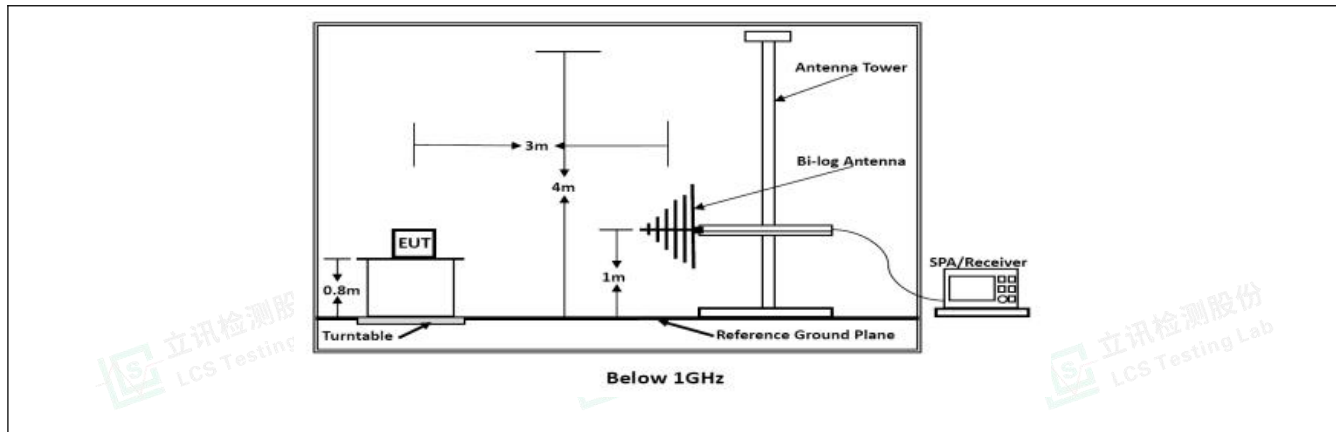
4.2 Radiated emissions (Below 1GHz)

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		

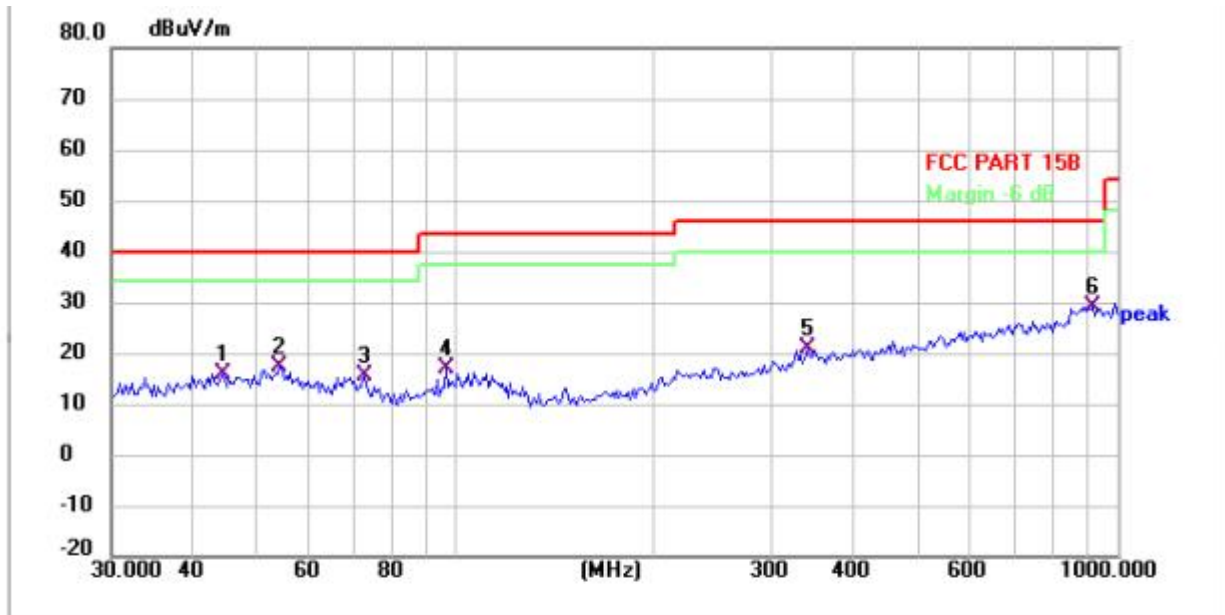
4.2.2 Test Setup Diagram:





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	44.154	26.79	-10.76	16.03	40.00	-23.97	QP	P	
2	53.756	27.49	-10.16	17.33	40.00	-22.67	QP	P	
3	72.720	30.14	-14.57	15.57	40.00	-24.43	QP	P	
4	96.323	29.41	-12.61	16.80	43.50	-26.70	QP	P	
5	338.855	29.53	-8.80	20.73	46.00	-25.27	QP	P	
6 *	919.132	30.51	-1.27	29.24	46.00	-16.76	QP	P	



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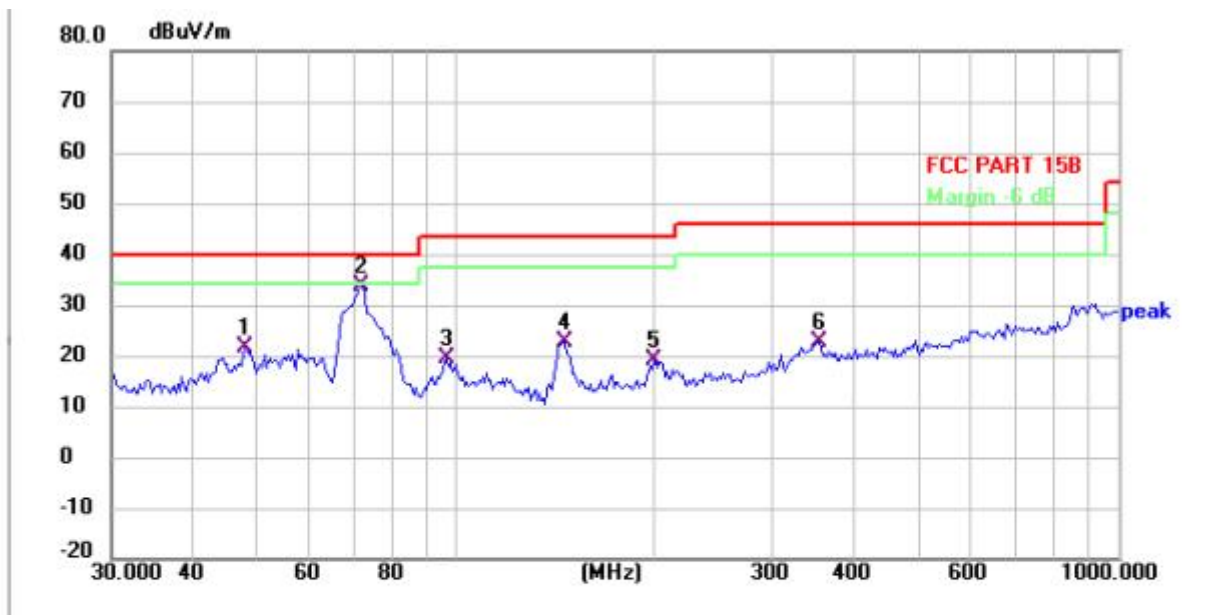
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TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	47.703	31.81	-10.27	21.54	40.00	-18.46	QP	P	
2 *	71.705	48.43	-14.63	33.80	40.00	-6.20	QP	P	
3	96.323	31.95	-12.61	19.34	43.50	-24.16	QP	P	
4	145.811	37.86	-15.13	22.73	43.50	-20.77	QP	P	
5	198.642	32.56	-13.44	19.12	43.50	-24.38	QP	P	
6	353.447	31.38	-8.53	22.85	46.00	-23.15	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 LCSA02205304E.docx

6. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

Refer to Appendix - EUT Photos for LCSA02205304E.docx

--- End of Report ---



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