



FCC TEST REPORT

ARTIKA FOR LIVING INC

Solar String Lights

Test Model: OUT-ECSOR-C2BL

Additional Model No.: Please Refer to Page 7

Prepared for : ARTIKA FOR LIVING INC
Address : 1756 50th avenue, Lachine, Quebec, 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)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : September 16, 2025
Number of tested samples : 2
Sample No. : B250910023-1, B250910023-2
Serial number : Prototype
Date of Test : September 16, 2025 ~ September 30, 2025
Date of Report : October 09, 2025



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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FCC TEST REPORT	
FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4A-2017(AMENDMENT TO ANSI C63.4-2014)	
Report Reference No. : LCSA09015183E	
Date Of Issue..... : October 09, 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, Quebec, Canada H8T 2V5	
Test Specification	
Standard..... : FCC 47 CFR Part 15 Subpart B, Class B ANSI C63.4A-2017(AMENDMENT TO 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..... : Solar String Lights	
Trade Mark..... : ARTIKA	
Test Model : OUT-ECSOR-C2BL	
Ratings..... : Please Refer to Page 7	
Result : PASS	

Compiled by:

Martin Lee/ Administrator

Supervised by:

Jack Liu/ Technique principal

Approved by:

Gavin Liang/ Manager



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**FCC TEST REPORT****Test Report No. : LCSA09015183E**October 09, 2025

Date of issue

EUT..... : Solar String Lights

Test Model..... : OUT-ECSOR-C2BL

Applicant..... : ARTIKA FOR LIVING INC

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

Telephone..... : /

Fax..... : /

Manufacturer 1..... : Zhongyuan Technology (Thailand) Co., Ltd.Address..... : 7/554 Moo.6 T. Mapyangporn A. Pluakdeang Rayong, Thailand
21140**Manufacturer 2..... : Haining Zhongyuan Plastic Co.,Ltd.**Address..... : No. 7 Wanlong Road, Economic Development Zone, Haining
City, Jiaxing City, Zhejiang Province China 314400

Telephone..... : /

Fax..... : /

Factory 1..... : Zhongyuan Technology (Thailand) Co., Ltd.Address..... : 7/554 Moo.6 T. Mapyangporn A. Pluakdeang Rayong, Thailand
21140**Factory 2..... : Haining Zhongyuan Plastic Co.,Ltd.**Address..... : No. 7 Wanlong Road, Economic Development Zone, Haining
City, Jiaxing City, Zhejiang Province China 314400

Telephone..... : /

Fax..... : /

Test Result according to the standards on page 6: PASS

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.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	October 09, 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.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4A-2017(AMENDMENT TO ANSI C63.4-2014)	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4A-2017(AMENDMENT TO ANSI C63.4-2014)	Class B	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:

TM1	433 receive and Lighting mode	Record
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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Solar String Lights

Test Model : OUT-ECSOR-C2BL

Additional Model No. : OUT-ECSOR-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

Ratings : Input: DC 5V, 1A
DC 3.7V by Rechargeable Li-ion Battery*2, 2000mAh

Highest internal frequency (Fx) : Fx > 1 GHz

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 × 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.



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2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200UU	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A

2.4. 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.
Test Firm Registration Number: 254912.

2.5. 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.



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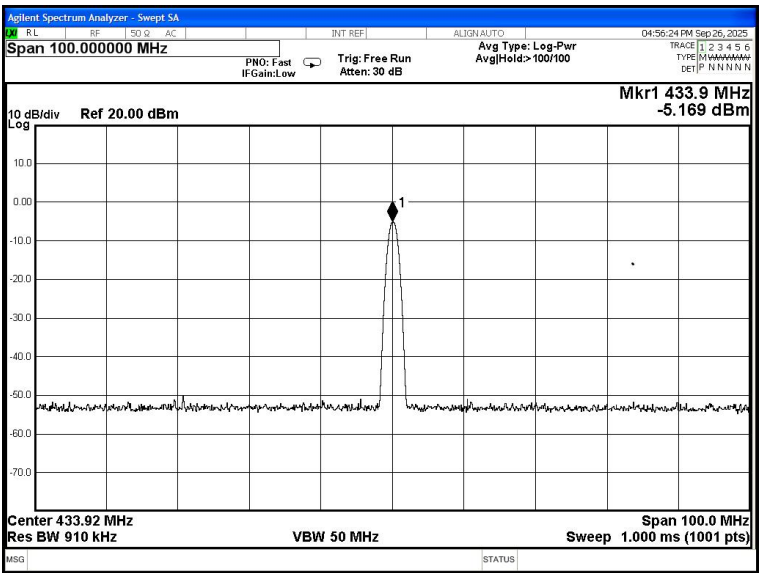
2.6. Measurement Uncertainty

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 (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 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%.

2.7. Receiver Requirements

Receiver Classification	
Relevant receiver clauses	Receiver types
ANSI C63.4-2014 12.2.2.3	Other types of receivers
	
The EUT does not belong to the Super-regenerative receiver.	





3. TEST RESULTS

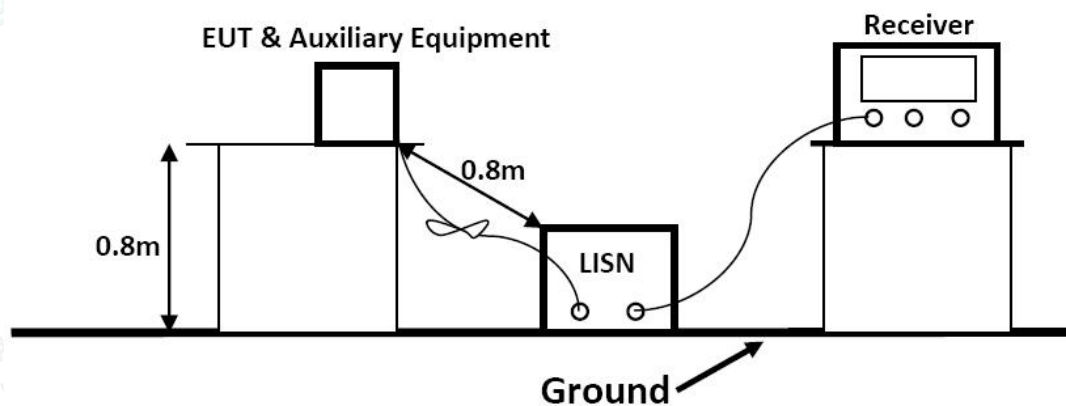
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	Farad	EZ	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2025-03-06	2026-03-05
3	Artificial Mains	R&S	ENV216	101479	2025-05-23	2026-05-22
4	Pulse Limiter	R&S	ESH3-Z2	102750	2025-05-23	2026-05-22
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2024-10-11	2025-10-10

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ V)	
			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.

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 Mode 1 and measure it.



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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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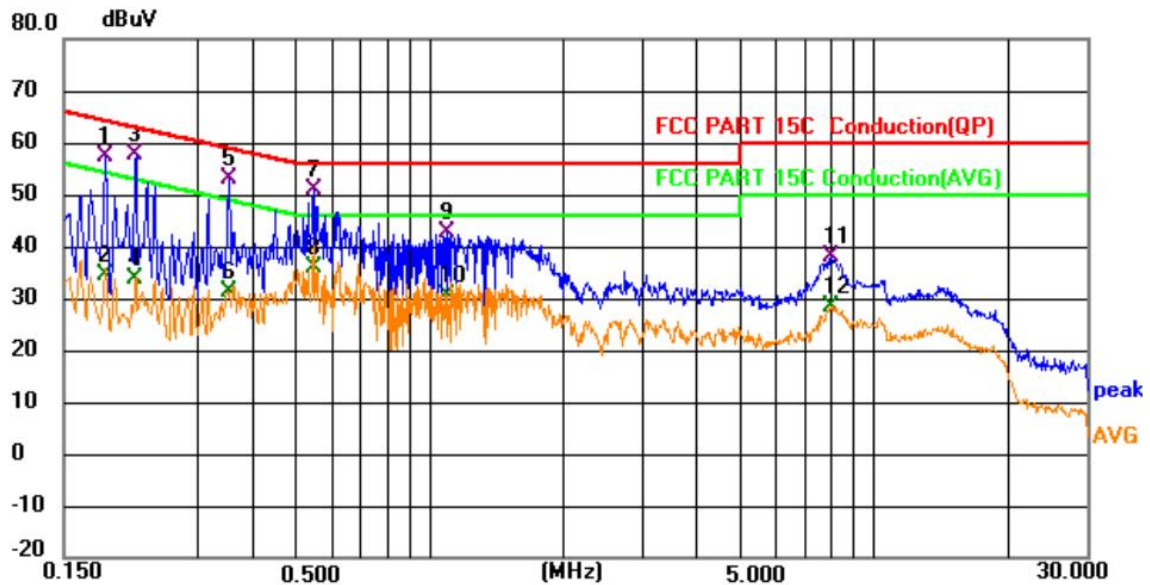
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Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Can Kun
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.186	37.45	19.71	57.16	64.21	-7.05	QP	
2		0.186	14.78	19.71	34.49	54.21	-19.72	AVG	
3		0.217	38.03	19.67	57.70	62.93	-5.23	QP	
4		0.217	13.98	19.67	33.65	52.93	-19.28	AVG	
5		0.352	33.18	19.92	53.10	58.92	-5.82	QP	
6		0.352	11.22	19.92	31.14	48.92	-17.78	AVG	
7	*	0.546	31.17	19.70	50.87	56.00	-5.13	QP	
8		0.546	16.36	19.70	36.06	46.00	-9.94	AVG	
9		1.095	23.44	19.13	42.57	56.00	-13.43	QP	
10		1.095	11.28	19.13	30.41	46.00	-15.59	AVG	
11		7.989	18.36	19.73	38.09	60.00	-21.91	QP	
12		7.989	8.66	19.73	28.39	50.00	-21.61	AVG	



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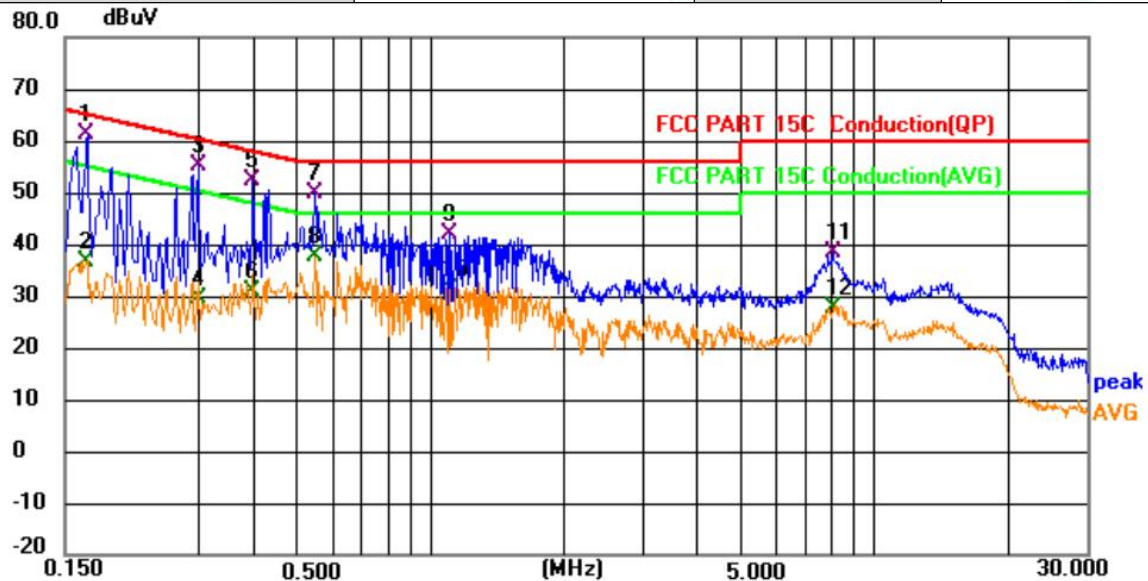
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Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Can Kun
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.168	41.44	19.66	61.10	65.06	-3.96	QP	
2		0.168	17.09	19.66	36.75	55.06	-18.31	AVG	
3		0.298	35.54	19.78	55.32	60.30	-4.98	QP	
4		0.298	9.86	19.78	29.64	50.30	-20.66	AVG	
5		0.398	32.48	19.84	52.32	57.90	-5.58	QP	
6		0.398	11.00	19.84	30.84	47.90	-17.06	AVG	
7		0.550	30.29	19.42	49.71	56.00	-6.29	QP	
8		0.550	18.42	19.42	37.84	46.00	-8.16	AVG	
9		1.109	23.10	18.83	41.93	56.00	-14.07	QP	
10		1.109	12.57	18.83	31.40	46.00	-14.60	AVG	
11		8.043	18.42	19.93	38.35	60.00	-21.65	QP	
12		8.043	7.68	19.93	27.61	50.00	-22.39	AVG	

Note: Margin= Reading level + Correct factor – Limit

Correct Factor= Lism Factor+Cable Factor



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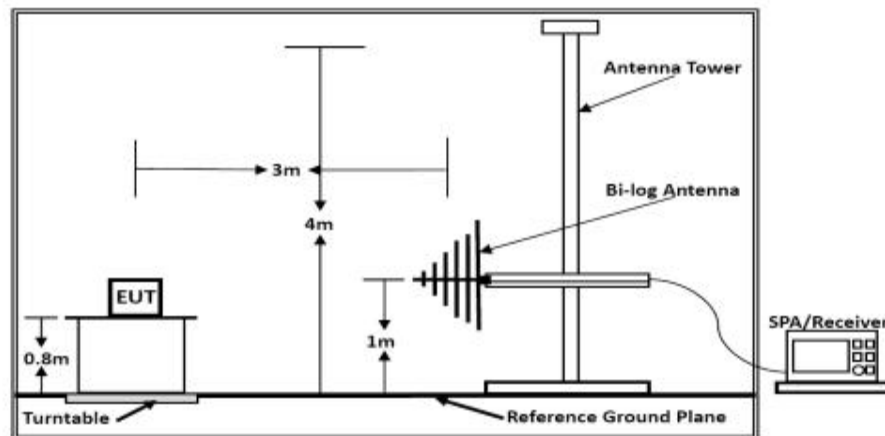
3.2. Radiated emission Measurement

3.2.1. Test Equipment

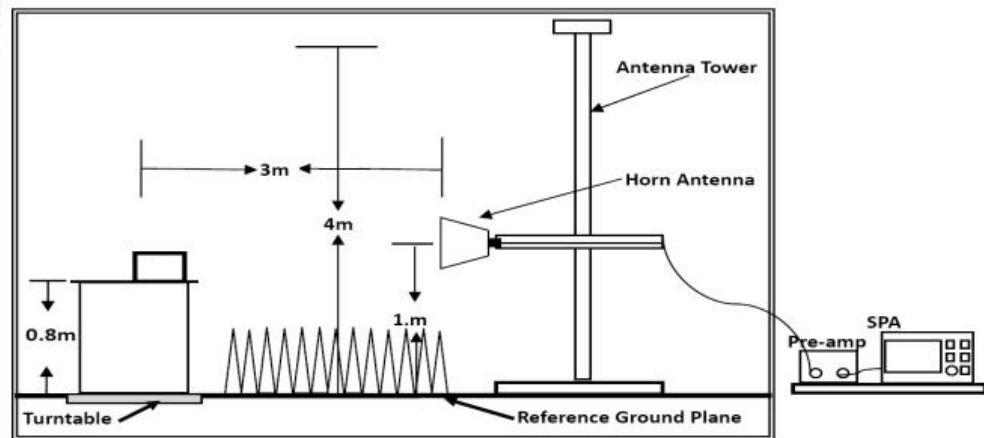
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	Maorui	966	/	2023-10-12	2026-10-11
3	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
6	EMI Test Receiver	R&S	ESPI	101940	2025-05-22	2026-05-21
7	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08 2025-10-07	2025-10-07 2026-10-06
8	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08 2025-10-07	2025-10-07 2026-10-06
9	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2024-10-08 2025-10-07	2025-10-07 2026-10-06
10	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2025-05-22	2026-05-21

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition 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 Mode 1 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 an 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.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver



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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

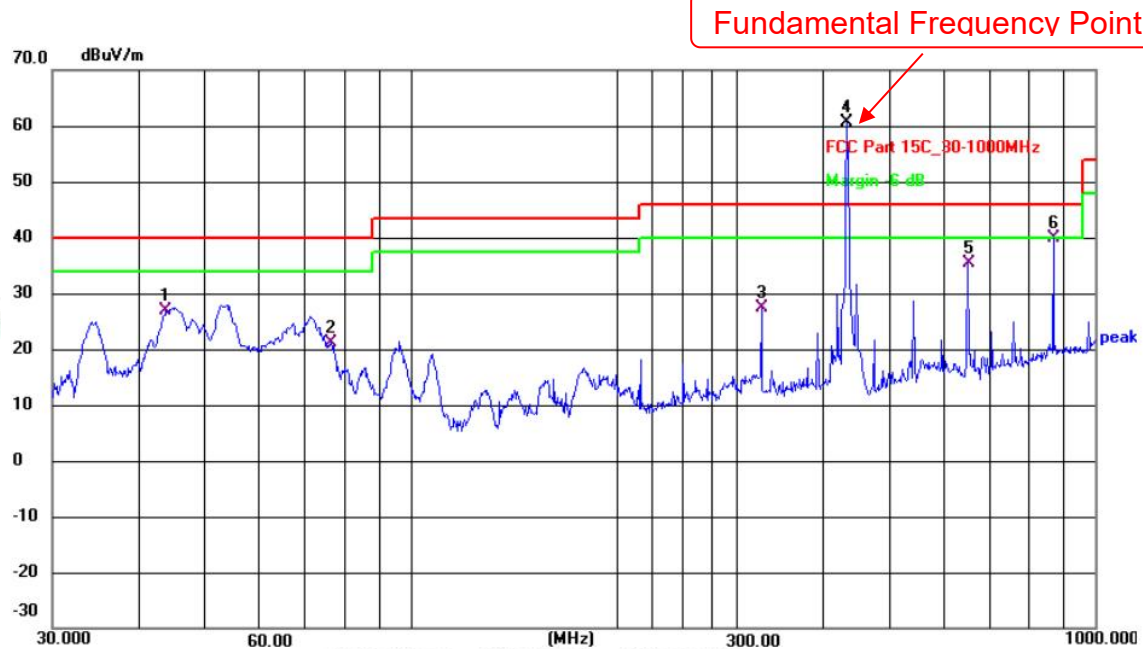
PASS.

The scanning waveforms please refer to the next page.





Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Can Kun	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure-ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		43.9658	43.53	-16.65	26.88	40.00	-13.12	QP
2		76.5119	40.87	-19.67	21.20	40.00	-18.80	QP
3		325.5957	42.53	-15.26	27.27	46.00	-18.73	QP
4	*	433.9200	73.81	-13.19	60.62	46.00	14.62	peak
5		651.9416	45.70	-10.20	35.50	46.00	-10.50	QP
6		869.1301	48.19	-8.26	39.93	46.00	-6.07	QP



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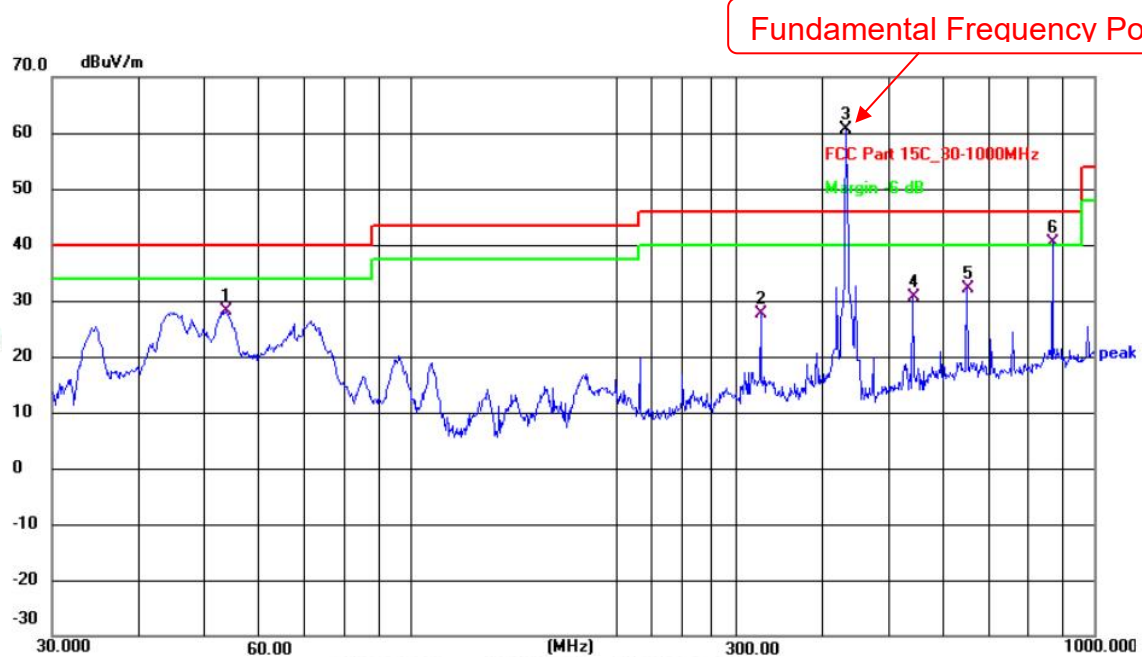
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Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Can Kun	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		53.8817	45.76	-17.74	28.02	40.00	-11.98	QP
2		325.5957	41.82	-14.21	27.61	46.00	-18.39	QP
3	*	433.9200	74.97	-14.44	60.53	46.00	14.53	peak
4		543.2741	42.74	-12.04	30.70	46.00	-15.30	QP
5		651.9416	43.26	-11.02	32.24	46.00	-13.76	QP
6	!	869.1301	49.07	-8.75	40.32	46.00	-5.68	QP

Note: Margin= Reading Level+Correct Factor – Limit

Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor



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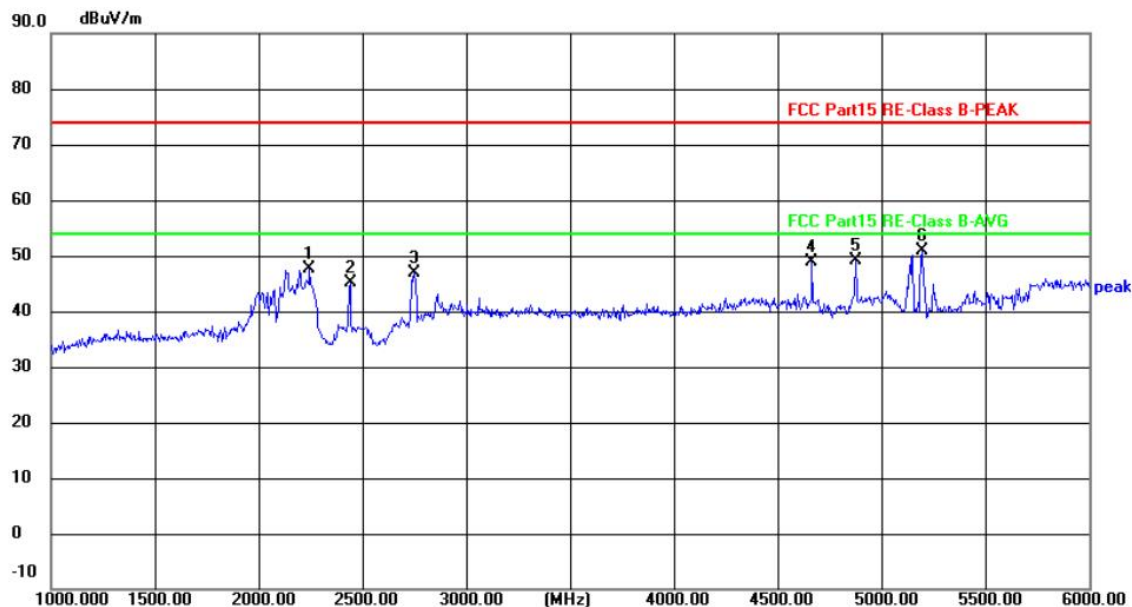
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Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Can Kun	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2245.000	58.42	-10.85	47.57	74.00	-26.43	peak	
2		2440.000	55.92	-10.67	45.25	74.00	-28.75	peak	
3		2750.000	57.05	-10.07	46.98	74.00	-27.02	peak	
4		4665.000	53.53	-4.75	48.78	74.00	-25.22	peak	
5		4875.000	53.25	-4.08	49.17	74.00	-24.83	peak	
6	*	5195.000	53.71	-2.75	50.96	74.00	-23.04	peak	



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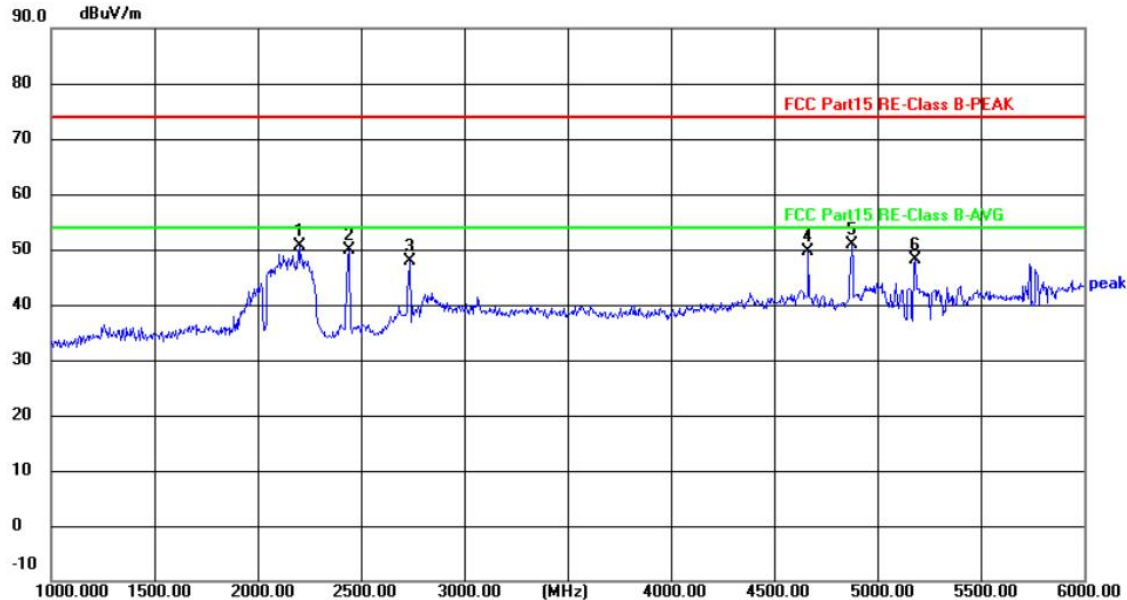
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Test Model	OUT-ECSOR-C2BL	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.8℃, 52.3% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Can Kun	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2200.000	63.04	-12.40	50.64	74.00	-23.36	peak	
2		2440.000	61.38	-11.55	49.83	74.00	-24.17	peak	
3		2735.000	58.48	-10.53	47.95	74.00	-26.05	peak	
4		4665.000	55.50	-5.76	49.74	74.00	-24.26	peak	
5	*	4875.000	55.65	-4.73	50.92	74.00	-23.08	peak	
6		5185.000	51.99	-3.78	48.21	74.00	-25.79	peak	

Note:

1. Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
2. Measurements above show only up to 6 maximum emissions noted.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Factor = Antenna Factor + Cable Loss + Amplifier Factor
Emission Level = Reading level + Factor
Margin = Emission Level - Limit



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4. TEST SETUP PHOTOGRAPHS

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

5. EXTERNAL AND INTERNAL PHOTOS 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.



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