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FCC TEST REPORT

FOR

BRAVOLITE TECH (VN) Co., LTD

LED EMERGENCY WRAP LIGHT

Test Model: WR242040EFL

Prepared for : BRAVOLITE TECH (VN) Co., LTD

767 Street, Song May Industrial Park, Bac Son commune, Trang Bom

District, Dong Nai Province, Vietnam

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

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Mail : webmaster@LCS-cert.com

Date of receipt of test sample : June 17, 2025

Number of tested samples : 2

Sample No. : B250530037-1, B250530037-2

Sample number : Prototype

Date of Test : June 17, 2025 ~ September 16, 2025

Date of Report : September 16, 2025



 $\label{thm:compliance} Shenzhen\ LCS\ Compliance\ Testing\ Laboratory\ Ltd.$

Page 2 of 36

FCC ID: 2BNYC-WR242040EFL

FCC TEST REPORT

FCC CFR 47 PART 15 C (15.249)

Report Reference No.: LCSA05305090EA

Date of Issue.....: September 16, 2025

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

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Full application of Harmonised standards

Testing Location/ Procedure...... Partial application of Harmonised standards

Other standard testing method

Applicant's Name...... : BRAVOLITE TECH (VN) Co., LTD

Address...... : 767 Street, Song May Industrial Park, Bac Son commune, Trang

Bom District, Dong Nai Province, Vietnam

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013

Test Report Form No.....: TRF-4-E-189 A/0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: LED EMERGENCY WRAP LIGHT

Trade Mark.....: N/A

Test Model.....: WR242040EFL

Ratings.....: Input: AC 120-277V

Battery: 6.4V, 1.6AH, 10.24Wh

Result: PASS

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA05305090EA

Diamond Lu/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager





FCC -- TEST REPORT

Test Report No. : LCSA05305090EA September 16, 2025

Date of issue

Test Model..... : WR242040EFL EUT.....:: LED EMERGENCY WRAP LIGHT : BRAVOLITE TECH (VN) Co., LTD Applicant..... 767 Street, Song May Industrial Park, Bac Son commune, Trang Address..... Bom District, Dong Nai Province, Vietnam Telephone..... Fax..... Manufacturer..... : BRAVOLITE TECH (VN) Co., LTD 767 Street, Song May Industrial Park, Bac Son commune, Trang Address..... Bom District, Dong Nai Province, Vietnam Telephone..... is Ing Lat Fax Factory..... : BRAVOLITE TECH (VN) Co., LTD 767 Street, Song May Industrial Park, Bac Son commune, Trang Address..... Bom District, Dong Nai Province, Vietnam Telephone..... Fax.....

Test Result	WST TCS TO	PASS TO TESTING
71	11	

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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FCC ID: 2BNYC-WR242040EFL

Revision History

Issue Date	Revision Content	Revised By
September 16, 2025	Initial Issue	Man Colles
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THE LCS Testing Lab

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打造 LCS TOSTING Lab

Report No.: LCSA05305090EA

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TABLE OF CONTENTS

1. GENERAL INFORMATION	6
1.1 Description of Device (EUT)	6
1.2. Support Equipment List	7
1.3. External I/O	
1.4. Description of Test Facility	7
1.5. Statement of the measurement uncertainty	7
1.6. Measurement Uncertainty	
1.7. Description of Test Modes	
2. TEST METHODOLOGY	
2.1. EUT Configuration	
2.2. EUT Exercise	
2.3. General Test Procedures	in the
3. CONNECTION DIAGRAM OF TEST SYSTEM	
3.1. Justification	
3.2. EUT Exercise Software	
3.3. Special Accessories	
3.4. Block Diagram/Schematics	
3.5. Equipment Modifications	
3.6. Test Setup	
4. SUMMARY OF TEST RESULTS	
5. ANTENNA REQUIREMENT	12
6. POWER LINE CONDUCTED EMISSIONS	13
7. RADIATED EMISSION MEASUREMENT	16
8. RESULTS FOR BAND EDGE TESTING	27
9. 20 DB BANDWIDTH MEASUREMENT	33
10. LIST OF MEASURING EQUIPMENT	35
11. TEST SETUP PHOTOGRAPHS OF THE EUT	
12. EXTERIOR PHOTOGRAPHS OF THE EUT	36
13. INTERIOR PHOTOGRAPHS OF THE EUT	36

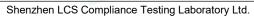






Report No.: LCSA05305090EA





Page 6 of 36 FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : LED EMERGENCY WRAP LIGHT

Test Model : WR242040EFL

Ratings : Input: AC 120-277V

Battery: 6.4V, 1.6AH, 10.24Wh

Hardware Version : V1.0 Software Version : V1.0

SRD-5.8G :

Frequency Range : 5800±75MHz

Modulation Type : FMCW

Antenna Description : Internal Antenna, 3.9dBi(max.)

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





Page 7 of 36 FCC ID: 2BNYC-WR242040EFL

1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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Report No.: LCSA05305090EA

1.3. External I/O

I/O Port Description	Quantity	Cable

1.4. Description of Test Facility

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.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. 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.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
- 10 A A A A A A A A A A A A A A A A A A		1GHz~26.5GHz	±3.80dB	(1)
THE WAY THE BOUND		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	s (1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Occupied Channel	:	1GHz-40GHz	±5%	(1)
Bandwidth				

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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1.7. Description of Test Modes

Operates in the unlicensed ISM Band at 5.8GHz. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Test Frequency (MHz)	Data Rate (Mbps)
	\	(IVIDPS)
	5726	/
FMCW	5806	1
	5872	1
F	For Conducted Emission	
Test Mode		TX Mode
	For Radiated Emission	
Test Mode	-m/ 162 (7)	TX Mode
H Jin bar	立河 拉克斯 Ang Lab	立洲地

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case.

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX.



立讯检测设份



Report No.: LCSA05305090EA



2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.



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3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

Press the corresponding button, and change the channel.

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

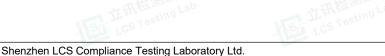
3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.











4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C §15.249					
	FCC Rules	Description Of Test	Result		
	§15.203	Antenna Requirement	Compliant		
	§15.207(a)	Power Line Conducted Emissions	Compliant		
§15.2	§15.205(a), §15.209(a), 49(a), §15.249(b), §15.249(d)	Radiated Emissions Measurement	Compliant		
	§15.249 (d)	Band Edges Measurement	Compliant		
	§15.215(c)	20 dB Bandwidth	Compliant		

Remark:

N/A* - Not Applicable for this device!!!



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FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

5. ANTENNA REQUIREMENT

5.1. Standard Applicable

According to § 15.203 and RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

5.2. Antenna Connected Construction

The EUT use Internal Antenna and maximum antenna gain is 3.9dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

5.3. Results

Compliance



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6. POWER LINE CONDUCTED EMISSIONS

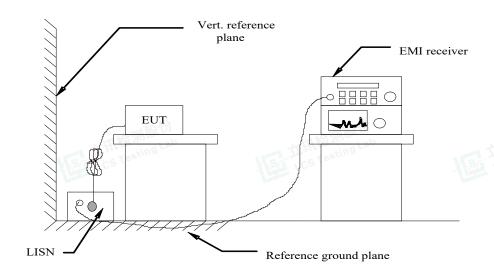
6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBμV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56 56 to 46		
0.50 to 5	56	46	
5 to 30	60	50	

^{*} Decreasing linearly with the logarithm of the frequency

6.2. Block Diagram of Test Setup



6.3. Test Results

PASS.

The test data please refer to following page.

Temperature	22.5℃	Humidity	53.7%
Test Engineer	Can Kun	Configurations	TX

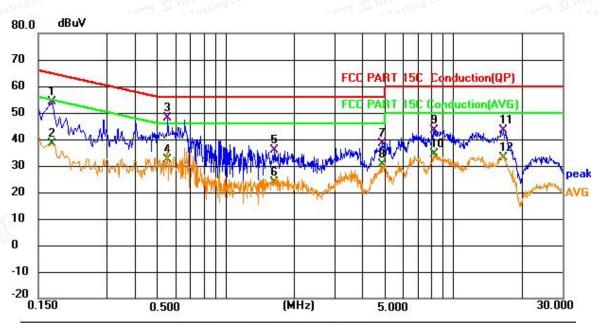


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AC Conducted Emission @ AC 120V/60Hz (worst case)

Line



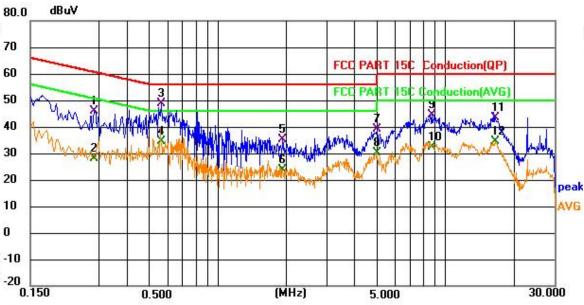
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.172	34.16	19.79	53.95	64.86	-10.91	QP
2		0.172	18.68	19.79	38.47	54.86	-16.39	AVG
3	*	0.555	28.29	19.67	47.96	56.00	-8.04	QP
4		0.555	12.67	19.67	32.34	46.00	-13.66	AVG
5		1.631	17.02	19.01	36.03	56.00	-19.97	QP
6		1.631	4.88	19.01	23.89	46.00	-22.11	AVG
7		4.857	19.60	18.97	38.57	56.00	-17.43	QP
8		4.857	11.60	18.97	30.57	46.00	-15.43	AVG
9		8.232	23.80	19.70	43.50	60.00	-16.50	QP
10		8.232	14.93	19.70	34.63	50.00	-15.37	AVG
11		16.629	23.55	19.67	43.22	60.00	-16.78	QP
12		16.629	13.42	19.67	33.09	50.00	-16.91	AVG
12		16.629	13.42	19.67	33.09	50.00	-16.91	AV



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Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.285	26.06	19.78	45.84	60.67	-14.83	QP
2		0.285	8.27	19.78	28.05	50.67	-22.62	AVG
3	*	0.564	29.37	19.42	48.79	56.00	-7.21	QP
4		0.564	14.92	19.42	34.34	46.00	-11.66	AVG
5		1.927	15.90	19.12	35.02	56.00	-20.98	QP
6		1.927	4.54	19.12	23.66	46.00	-22.34	AVG
7		4.992	20.15	18.83	38.98	56.00	-17.02	QP
8		4.992	11.32	18.83	30.15	46.00	-15.85	AVG
9		8.758	24.82	19.79	44.61	60.00	-15.39	QP
10		8.758	12.60	19.79	32.39	50.00	-17.61	AVG
11		16.647	24.03	19.52	43.55	60.00	-16.45	QP
12		16.647	14.83	19.52	34.35	50.00	-15.65	AVG

***Note:

- 1). Pre-scan all modes and recorded the worst case results in this report(FSK).
- 2). Measurement = Reading + Correct, Margin = Measurement Limit. Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.



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7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

FCC ID: 2BNYC-WR242040EFL

Report No.: LCSA05305090EA

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental	Field Strength of fundamental	Field Strength of harmonics (microvolts/meter)		
Frequency	(millivolts/meter)			
902-928MHz	50	500		
2400-2483.5MHz	50	500		
5725-5875MHz	50	500		
24.0-24.25GHz	250	2500		

Frequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

7.2. Instruments Setting

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th 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





Page 17 of 36 FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

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

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.





Page 18 of 36 FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



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Page 20 of 36 FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

4) Sequence of testing above 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

Final measurement:

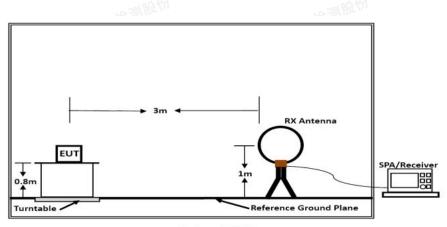
- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



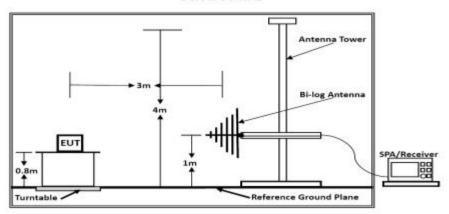




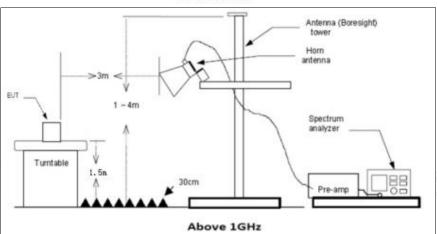
7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



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Page 22 of 36

FCC ID: 2BNYC-WR242040EFL

Report No.: LCSA05305090EA

7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

	and the	- 47		
Temperature	22.3℃	Humidity	53.0%	
Test Engineer	Can Kun	Configurations	TX	

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

7.7. Test Results of Radiated Emissions (30 MHz - 1000 MHz)

Temperature	22.3℃	Humidity	53.0%
Test Engineer	Can Kun	Configurations	TX

PASS.

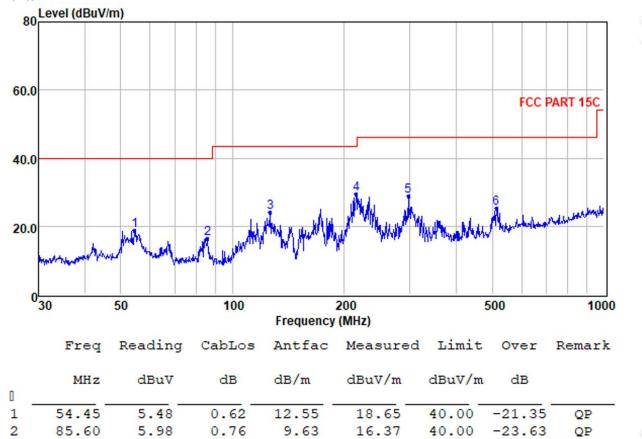
The test data please refer to following page.



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Horizontal



Note: 1. All readings are Quasi-peak values.

13.20

16.73

13.87

6.77

2. Measured= Reading + Antenna Factor + Cable Loss

0.93

1.22

1.31

1.50

3. The emission that are 20db below the official limit are not reported

9.83

11.49

13.65

17.05

23.96

29.44

28.83

25.32

43.50

43.50

46.00

46.00



126.33

215.27

297.22

513.63





-19.54

-14.06

-17.17

-20.68

QP

QP

QP

QP

Report No.: LCSA05305090EA



3

4

5

6





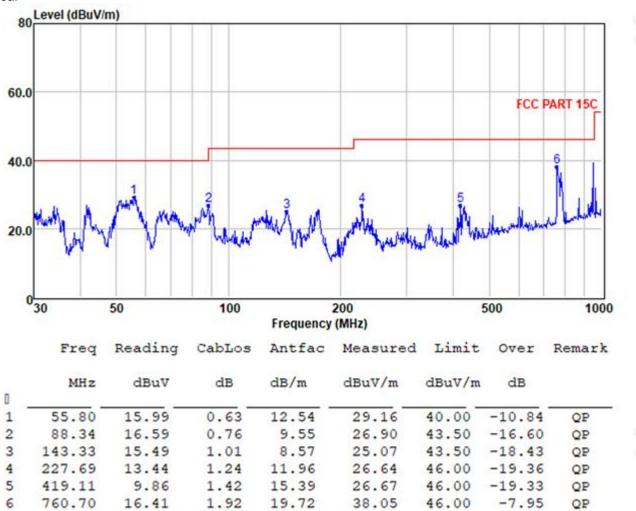




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Vertical



Note: 1. All readings are Quasi-peak values.

- 2. Measured= Reading + Antenna Factor + Cable Loss
- 3. The emission that are 20db below the official limit are not reported

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (FSK).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level Limit, Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor











Page 25 of 36

FCC ID: 2BNYC-WR242040EFL

Report No.: LCSA05305090EA

7.8. Results for Radiated Emissions (1 – 40 GHz)

Frequency 5726 MHz

Field Strength of Fundamental (TX-5726 MHz)						
	Frequency (MHz) Pol.		Measure Result Peak Limit AVG Limit (PK, dBuV/m) (dBuV/m) (dBuV/m)		Result	
	5726.00	Н	79.63	114	94	Pass
Ī	5726.00	V	79.45	114	94	Pass

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/ m	Margin dB	Remark	Pol.
11452.00	53.90	33.06	35.04	3.94	55.86	74.00	-18.14	Peak	Horizontal
11452.00	44.88	33.06	35.04	3.94	46.84	54.00	-7.16	Average	Horizontal
11452.00	56.95	33.06	35.04	3.94	58.91	74.00	-15.09	Peak	Vertical
11452.00	43.15	33.06	35.04	3.94	45.11	54.00	-8.89	Average	Vertical

Frequency 5806 MHz

	_					
	Hz)					
Frequency (MHz) Pol.		Measure Result Peak Limit		AVG Limit (dBuV/m) Result		
5806.00	Н	74.15	114	94	Pass	
5806.00	V	74.29	114	94	Pass	

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
11612.00	55.17	33.16	35.15	3.96	57.14	74.00	-16.86	Peak	Horizontal
11612.00	44.01	33.16	35.15	3.96	45.98	54.00	-8.02	Average	Horizontal
11612.00	60.11	33.16	35.15	3.96	62.08	74.00	-11.92	Peak	Vertical
11612.00	45.58	33.16	35.15	3.96	47.55	54.00	-6.45	Average	Vertical

Frequency 5872 MHz

Field Strength of Fundamental (TX-5872 MHz)							
	Frequency (MHz)	Pol.	Measure Result (PK, dBuV/m)	Peak Limit (dBuV/m)	AVG Limit (dBuV/m)	Result	
	5872.00	Н	82.19	114	94	Pass	
	5872.00	V	82.22	114	94	Pass	

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
11720.00	60.96	33.26	35.14	3.98	63.06	74.00	-10.94	Peak	Horizontal
11720.00	43.75	33.26	35.14	3.98	45.85	54.00	-8.15	Average	Horizontal
11720.00	52.42	33.26	35.14	3.98	54.52	74.00	-19.48	Peak	Vertical
11720.00	44.40	33.26	35.14	3.98	46.50	54.00	-7.50	Average	Vertical



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Notes:

- 1). Measuring frequencies from 9 KHz 10th harmonic (ex. 40GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz 10th harmonic (ex. 40GHz) were made with an instrument using Peak detector mode.
- 3). 18~25 GHz at least have 20dB margin. No recording in the test report.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor

5). Note: The AV value is not recorded because the peak value does not exceed the AV limit.







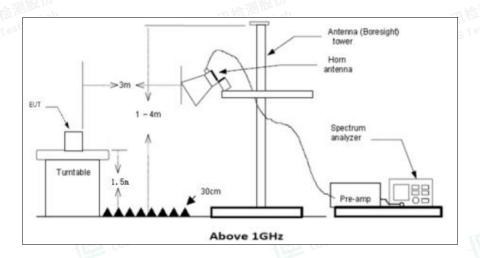
8. RESULTS FOR BAND EDGE TESTING

8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

8.2. Test Setup Layout



8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

8.4. Test Procedures

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.



Page 28 of 36 FCC ID: 2BNYC-WR242040EFL Report No.: LCSA05305090EA

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

8.5. Measuring Instruments and Setting

Temperature	23.5℃	Humidity	52.1%	
Test Engineer	Can Kun	Configurations	TX	

PASS

Remark:

- 1. The other emission levels were very low against the limit.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.
- 3. Please refer to following test plots;



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70

60

50

40

30 °

5650.000 5661.00

FCC ID: 2BNYC-WR242040EFL

Channel Frequency 5726MHz Horizontal 120.0 dBm FCC Part 15.249 _FK-5g 110 FCC Part 15.249 _AV-5g 90 80

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBm	dBm	dB	Detector
1		5650.000	34.79	-2.69	32.10	74.00	-41.90	peak
2		5663.310	36.27	-2.75	33.52	74.00	-40.48	peak
3		5680.140	35.52	-2.83	32.69	74.00	-41.31	peak
4		5712.040	41.28	-2.64	38.64	74.00	-35.36	peak
5	*	5725.000	53.65	-2.33	51.32	74.00	-22.68	peak
6		5726.000	81.94	-2.31	79.63	114.00	-34.37	peak

(MHz)

5716.00

5727.00

5738.00

5749.00

5760.00







Report No.: LCSA05305090EA



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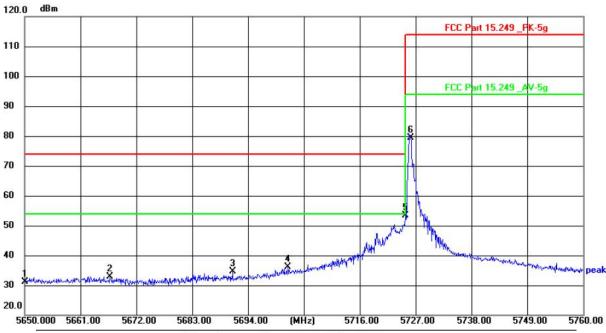
5683.00

5694.00

5672.00







	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
			MHz	dBuV	dB	dBm	dBm	dB	Detector
-	1		5650.000	34.56	-3.35	31.21	74.00	-42.79	peak
	2		5666.720	36.14	-3.37	32.77	74.00	-41.23	peak
	3		5690.920	37.95	-3.40	34.55	74.00	-39.45	peak
a/ -	4		5701.810	39.52	-3.40	36.12	74.00	-37.88	peak
	5	*	5725.000	56.83	-3.42	53.41	74.00	-20.59	peak
	6		5726.000	82.87	-3.42	79.45	114.00	-34.55	peak

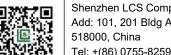
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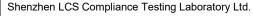




Report No.: LCSA05305090EA





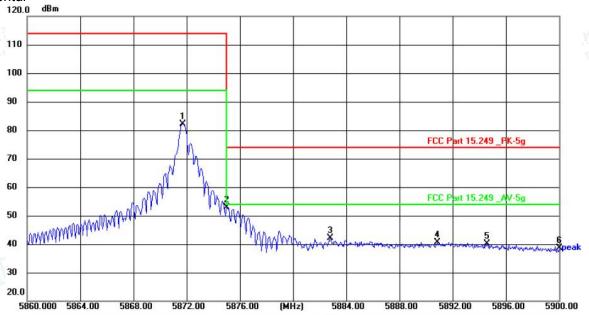




FCC ID: 2BNYC-WR242040EFL



Channel Frequency 5872MHz Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBm	dBm	dB	Detector
1		5871.680	85.14	-2.95	82.19	114.00	-31.81	peak
2	*	5875.000	55.78	-2.92	52.86	74.00	-21.14	peak
3		5882.800	44.89	-2.86	42.03	74.00	-31.97	peak
4		5890.840	43.49	-2.80	40.69	74.00	-33.31	peak
5		5894.600	42.93	-2.77	40.16	74.00	-33.84	peak
6		5900.000	41.30	-2.73	38.57	74.00	-35.43	peak

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Report No.: LCSA05305090EA





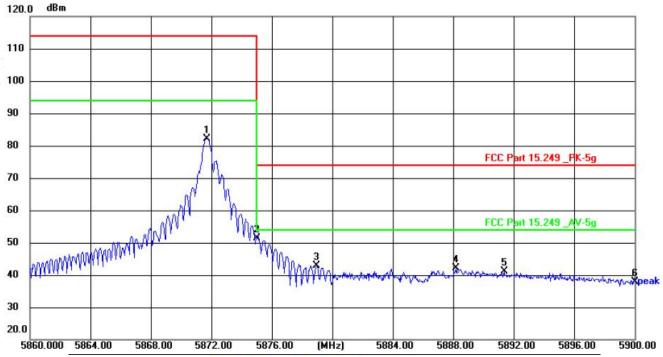








Vertical



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
•			MHz	dBuV	dB	dBm	dBm	dB	Detector
•	1		5871.720	85.79	-3.57	82.22	114.00	-31.78	peak
Ž.	2	*	5875.000	55.07	-3.57	51.50	74.00	-22.50	peak
3:	3		5878.960	46.55	-3.57	42.98	74.00	-31.02	peak
٠	4		5888.200	45.60	-3.59	42.01	74.00	-31.99	peak
	5		5891.360	44.70	-3.59	41.11	74.00	-32.89	peak
	6		5900.000	41.50	-3.59	37.91	74.00	-36.09	peak

Notes:

Measured Level = Reading Level + Factor, Margin = Measured Level – Limit, Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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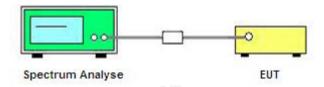


9. 20 DB BANDWIDTH MEASUREMENT

9.1. Standard Applicable

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

9.2. Block Diagram of Test Setup



9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 150MHz

RBW = 1MHz

VBW = 3MHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).



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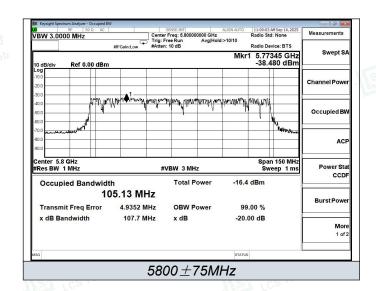
9.4. Test Results

Temperature		23.8℃	Humidity	52.1%	
	Test Engineer	Can Kun			

Test Result of 20dB Bandwidth Measurement								
Test Frequency	99% Bandwidth	20dB Bandwidth	Limit					
(MHz)	(MHz)	(MHz)	(kHz)					
5800±75MHz	105.13	107.7	Non-Specified					

Remark:

- 1. Test results including cable loss;
- 2. Please refer following test plots;



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Report No.: LCSA05305090EA



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10. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2024-10-08	2025-10-07
2	DC Power Supply	Agilent	E3642A	N/A	2024-10-08	2025-10-07
3	Temperature & Humidity Chamber	Baro	1	1	2025-06-04	2026-06-03
4	EMI Test Software	AUDIX	E3	1	N/A	N/A
5	3m Semi Anechoic Chamber	Maorui	966	1	2023-10-12	2026-10-11
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
10	EMI Test Receiver	R&S	ESR 7	101181	2025-05-22	2026-05-21
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2025-05-22	2026-05-21
12	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
13	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
14	EMI Test Receiver	R&S	ESPI	101940	2025-05-22	2026-05-21
15	Artificial Mains	R&S	ENV216	101479	2025-05-23	2026-05-22
16	10dB Attenuator	SCHWARZBECK	MTS-IMP-13 6	261115-001-0032	2025-05-22	2026-05-21
17	EMI Test Software	Farad	EZ	1	N/A	N/A
18	Antenna Mast	Max-Full	MFA-515BS N	1308572	N/A	N/A
19	Pulse Limiter	R&S	ESH3-Z2	102750	2025-05-23	2026-05-22
20	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
21	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2027-07-29

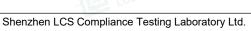
13 立语检测股份

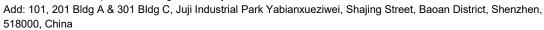


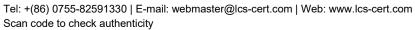


Report No.: LCSA05305090EA













11. TEST SETUP PHOTOGRAPHS OF THE EUT

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

12. EXTERIOR PHOTOGRAPHS OF THE EUT

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

13. INTERIOR PHOTOGRAPHS OF THE EUT

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

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



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