

# TEST REPORT

**Applicant:** Jiangsu Niu Electric Technology Co., Ltd.  
**Address:** No.387. ChangtingRd, WEZ, Wujin, Changzhou, Jiangsu Province. China  
**Equipment Type:** Bluetooth module  
**Model Name:** C21  
**Brand Name:** NIU  
**FCC ID:** 2AZ6G-C21  
**Test Standard:** 47 CFR Part 15 Subpart B  
ANSI C63.4-2014  
**Sample Arrival Date:** Apr. 11, 2024  
**Test Date:** Apr. 23, 2024 - Apr. 25, 2024  
**Date of Issue:** Jun. 03, 2024

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xin Liao

**Checked by:** Zhenxiang Liu

**Approved by:** Liao Jianming  
(Technical Director)

*Xin Liao*

*Zhenxiang Liu*

*Liao Jianming*

<b>Revision History</b>		
Version	Issue Date	Revisions
Rev. 01	May 23, 2024	Initial Issue
Rev. 02	Jun. 03, 2024	New Test modes have been added, and the worst mode data, test photos, and Test Enclosure List have been updated.

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Jiangsu Niu Electric Technology Co., Ltd.
Address	No.387. ChangtingRd, WEZ, Wujin, Changzhou, Jiangsu Province. China

### 2.2 Manufacturer Information

Manufacturer	Jiangsu Niu Electric Technology Co., Ltd.
Address	No.387. ChangtingRd, WEZ, Wujin, Changzhou, Jiangsu Province. China

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	Bluetooth Module
Model Name Under Test	C21
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V0.2
Software Version	KCC2FV01
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

### 2.4 Ancillary Equipment

Note: Not applicable.

### 2.5 Technical Information

Network and Wireless connectivity	Bluetooth 5.0 (BR+EDR)
Classification of equipment	Class B
The highest internal frequency of EUT	2480 MHz

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

#### 3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Remark
1	Radiated Emission	15.109	Pass	--
2	Conducted Emission, AC Ports	15.107	Pass	--

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.2 dB
Radiated emissions (30 MHz-1 GHz)-966#2	4.4 dB
Radiated emissions (1 GHz-18 GHz)-966#2	5.0 dB

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Adapter	OPPO	AK931JH	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Power supply panel	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB Cable	N/A	N/A	N/A	N/A	30cm	<input checked="" type="checkbox"/>
Laptop	Lenovo	N/A	N/A	N/A	S03	<input checked="" type="checkbox"/>
PCB Board	N/A	N/A	N/A	N/A	HQPCB-2 E469747	<input checked="" type="checkbox"/>

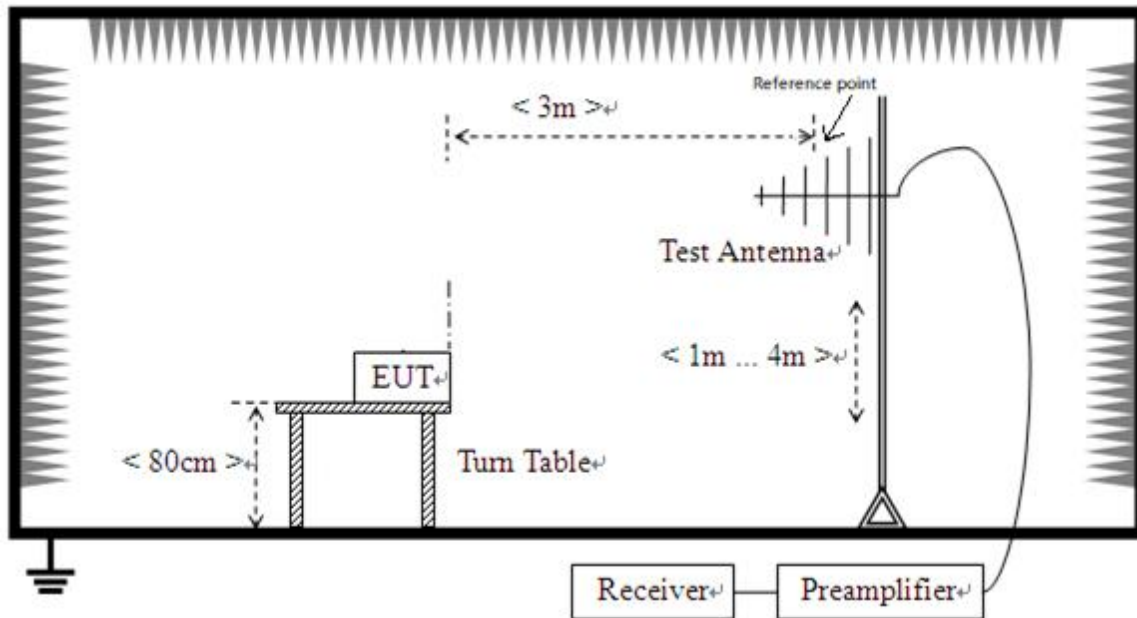
### 4.2 Test Configurations

All test modes of EUT are listed in the table below.

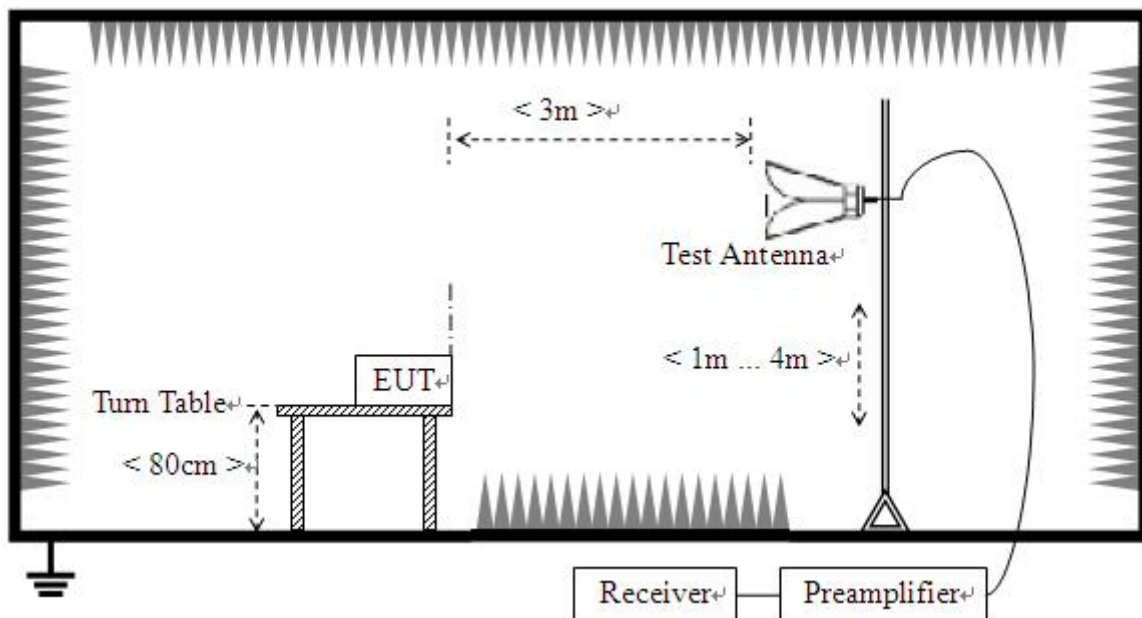
Test Mode Configuration	Description
Mode 1	<u>The Standby Test Mode</u> EUT + Adapter + Power supply panel + PCB Board + USB Cable
Mode 2	<u>The Normal Operating Test Mode</u> EUT + Laptop + Power supply panel + PCB Board + USB Cable + BT

### 4.3 Test Setups

#### Test Setup 1



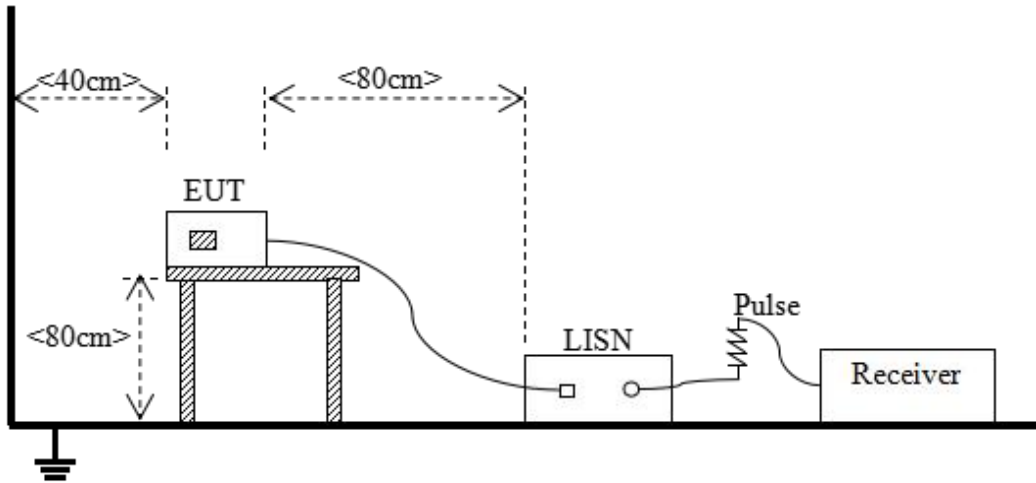
Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)



Test Setup 2



Conducted Emissions, AC Ports

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class A (at 3 m)
	Field Strength ( $\mu\text{V/m}$ )	Field Strength (dB $\mu\text{V/m}$ )	Field Strength (dB $\mu\text{V/m}$ )
30 - 88	100	40	49.5
88 - 216	150	43.5	54
216 - 960	200	46	56.9
Above 960	500	54	60

NOTE:

- 1) Field Strength (dB $\mu\text{V/m}$ ) = 20\*log [Field Strength ( $\mu\text{V/m}$ )].
- 2) In the emission tables above, the tighter limit applies at the band edges.
- 3) For 30 MHz to 1000 MHz, the CISPR quasi-peak is employed.

For above 1000 MHz, according to the requirements of FCC 15.35, unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Frequency range (GHz)	Class B (at 3 m)			Class A (at 3 m)	
	Field Strength ( $\mu\text{V/m}$ )	Field Strength Average (dB $\mu\text{V/m}$ )	Field Strength Peak (dB $\mu\text{V/m}$ )	Field Strength Average (dB $\mu\text{V/m}$ )	Field Strength Peak (dB $\mu\text{V/m}$ )
1 - $F_M$	500	54	74	60	80

Note 1: The highest measurement frequency,  $F_M$ , in GHz, shall be determined as next Table.

Note 2: Average Class A limit at 3m  $L_{3m}$  is determined by the following conversion formula:

$$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$$

Where:

$L_{3m}$  is Average Class A limit at 3m;

$L_{10m}$  is Average Class A limit at 10m;

$d_{10m}$  is Measurement distance in 10m;

$d_{3m}$  is Measurement distance in 3m.

For this case:  $L_{3m} = 49.5 + 20 \cdot \log(10/3) = 60$  (dB $\mu\text{V/m}$ ).

Highest internal frequency ( $F_x$ )	Highest measurement frequency ( $F_M$ )
$F_x \leq 108$ MHz	1 GHz
$108$ MHz $\leq F_x \leq 500$ MHz	2 GHz
$500$ MHz $\leq F_x \leq 1$ GHz	5 GHz
$F_x \geq 1$ GHz	$5 * F_x$ or 40 GHz, whichever is lower.
Note: $F_x$ is Highest frequency generated or used in the device or on which the device operates or tunes.	

### 5.1.1.2 Test Setup

Refer to 4.3 section (test setup 1) for radiated emission test, the photo of test setup please refer to ANNEX B.

### 5.1.1.3 Test Procedure

All Radiated Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from  $0^\circ$  to  $360^\circ$ , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak for  $f < 1$  GHz, peak & RMS Average for  $f \geq 1$  GHz

Trace = max hold

### 5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB $\mu$ V/m) = Reading (dB $\mu$ V) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Margin = Limit - Results

## 5.1.2 Conducted Emission, AC Ports

### 5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

#### NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.3 section test (test setup 2) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW  $\geq$  RBW

Sweep = 10ms

Detector function =peak & Average

Trace = max hold

#### 5.1.2.4 Test Result and Test Equipment List

Please refer to ANNEX A.2.

NOTE:

1. Results (dB $\mu$ V) = Reading (dB $\mu$ V) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Margin = Limit - Results

## ANNEX A TEST RESULTS

### A.1 Radiated Emission

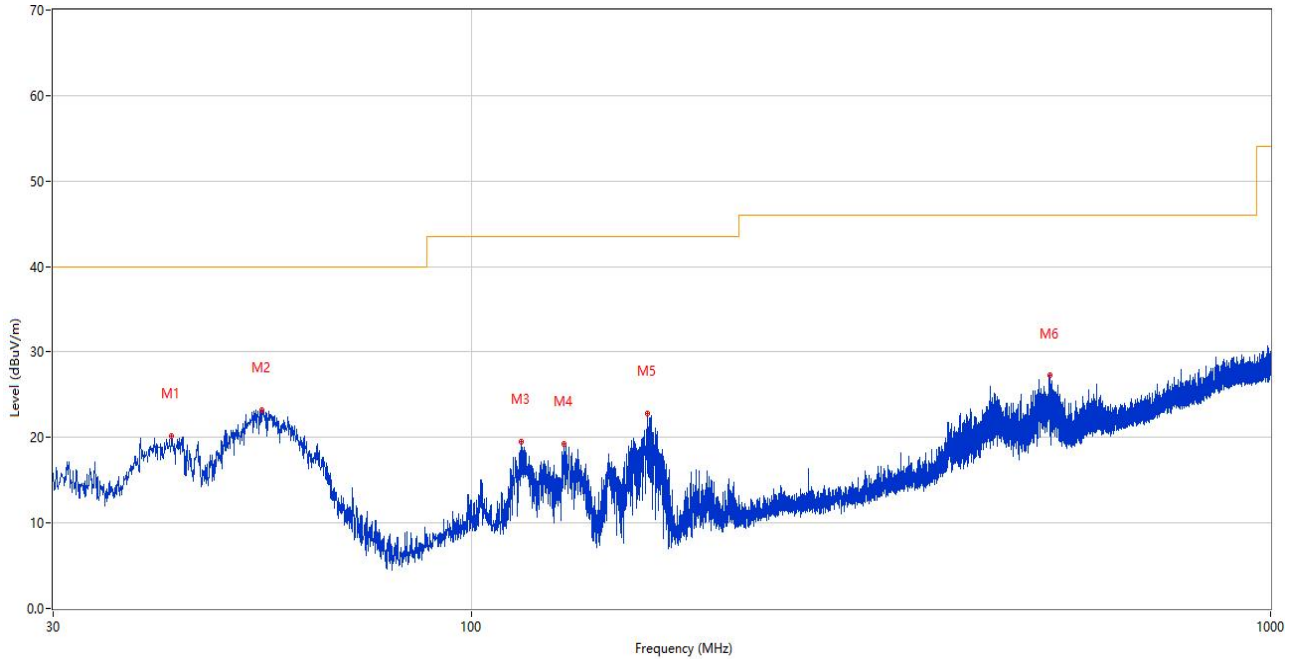
Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Sample No.	S01	Temperature	23.4°C
Humidity	51%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.04.23

**Test Mode 2**

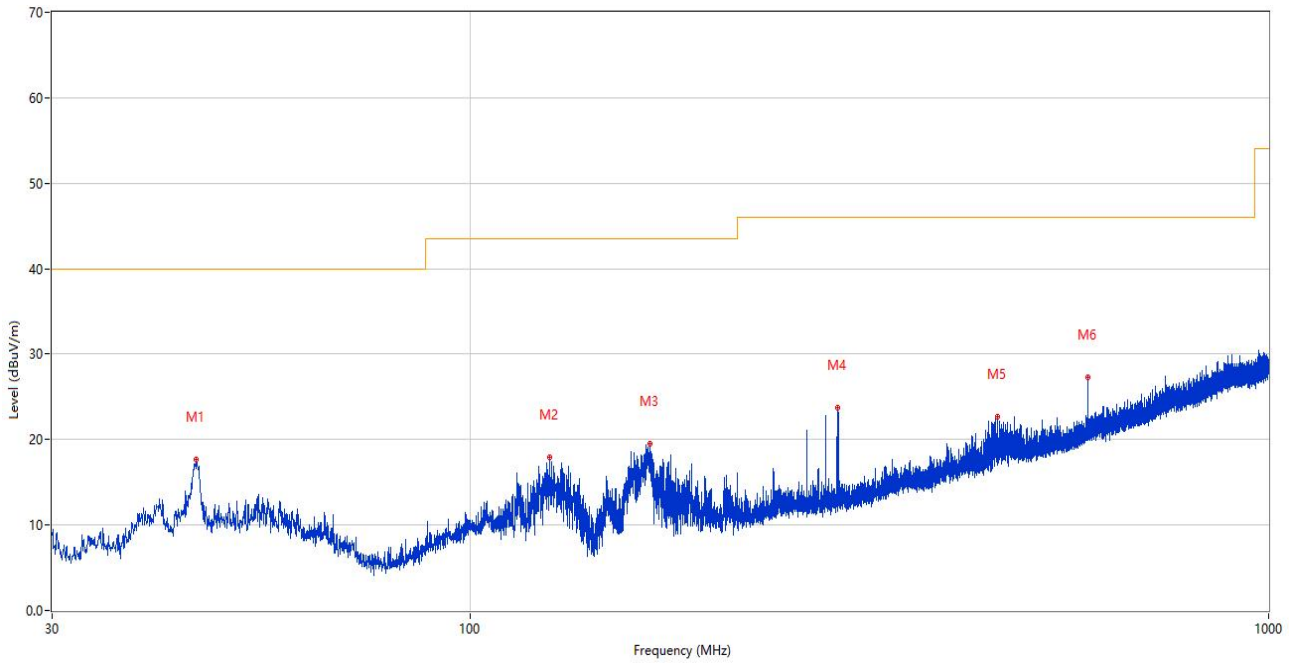
1) Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	42.173	20.24	-25.95	40.0	19.76	Peak	248.00	100	Vertical	Pass
2	54.735	23.17	-25.69	40.0	16.83	Peak	245.00	100	Vertical	Pass
3	115.360	19.48	-27.49	43.5	24.02	Peak	196.00	100	Vertical	Pass
4	130.686	19.21	-29.79	43.5	24.29	Peak	239.00	100	Vertical	Pass
5	166.042	22.83	-29.31	43.5	20.67	Peak	243.00	100	Vertical	Pass
6	529.647	27.23	-17.97	46.0	18.77	Peak	131.00	100	Vertical	Pass



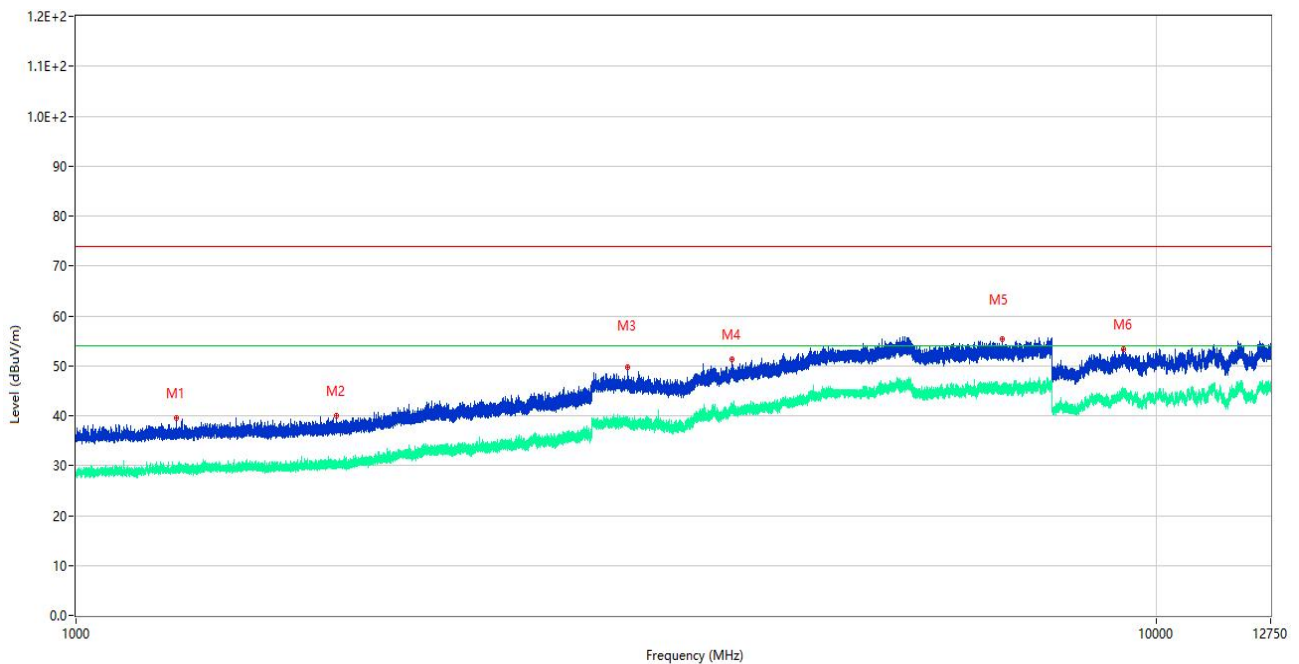
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.471	17.65	-25.53	40.0	22.35	Peak	339.00	100	Horizontal	Pass
2	125.836	17.89	-29.40	43.5	25.61	Peak	131.00	200	Horizontal	Pass
3	168.031	19.48	-29.22	43.5	24.02	Peak	136.00	200	Horizontal	Pass
4	289.087	23.76	-23.92	46.0	22.24	Peak	333.00	100	Horizontal	Pass
5	457.576	22.65	-19.82	46.0	23.35	Peak	91.00	200	Horizontal	Pass
6	594.006	27.32	-16.07	46.0	18.68	Peak	73.00	200	Horizontal	Pass

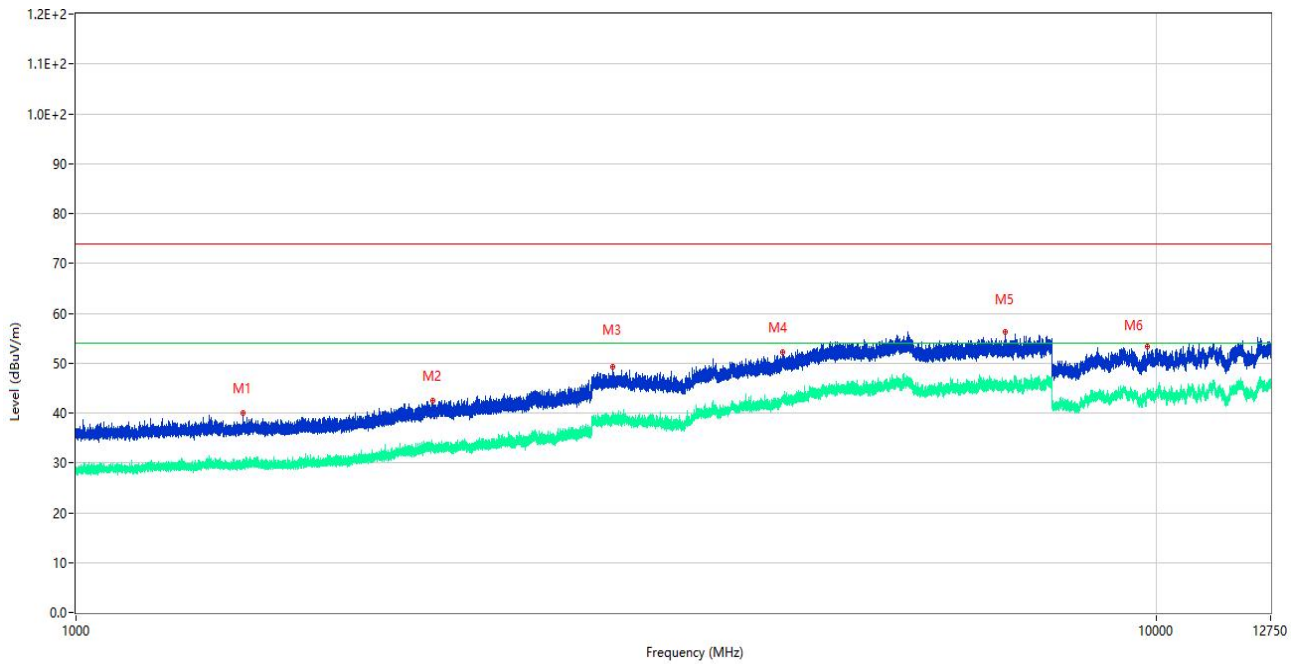
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

3) Test Antenna Vertical, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1239.800	39.48	-16.19	74.0	34.52	Peak	341.00	100	Vertical	Pass
1**	1239.800	29.85	-16.19	54.0	24.15	AV	341.00	100	Vertical	Pass
2	1742.400	39.90	-15.84	74.0	34.10	Peak	83.00	100	Vertical	Pass
2**	1742.400	29.91	-15.84	54.0	24.09	AV	83.00	100	Vertical	Pass
3	3238.500	49.63	-4.55	74.0	24.37	Peak	175.00	100	Vertical	Pass
3**	3238.500	37.73	-4.55	54.0	16.27	AV	175.00	100	Vertical	Pass
4	4048.250	51.21	-0.72	74.0	22.79	Peak	220.00	100	Vertical	Pass
4**	4048.250	40.90	-0.72	54.0	13.10	AV	220.00	100	Vertical	Pass
5	7196.500	55.27	1.16	74.0	18.73	Peak	265.00	100	Vertical	Pass
5**	7196.500	45.10	1.16	54.0	8.90	AV	265.00	100	Vertical	Pass
6	9317.500	53.41	2.18	74.0	20.59	Peak	0.00	100	Vertical	Pass
6**	9317.500	45.23	2.18	54.0	8.77	AV	0.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1428.400	39.98	-15.81	74.0	34.02	Peak	4.00	100	Horizontal	Pass
1**	1428.400	29.07	-15.81	54.0	24.93	AV	4.00	100	Horizontal	Pass
2	2136.800	42.42	-12.98	74.0	31.58	Peak	319.00	100	Horizontal	Pass
2**	2136.800	32.93	-12.98	54.0	21.07	AV	319.00	100	Horizontal	Pass
3	3138.500	49.21	-4.49	74.0	24.79	Peak	309.00	100	Horizontal	Pass
3**	3138.500	39.79	-4.49	54.0	14.21	AV	309.00	100	Horizontal	Pass
4	4510.500	52.19	0.88	74.0	21.81	Peak	6.00	100	Horizontal	Pass
4**	4510.500	42.82	0.88	54.0	11.18	AV	6.00	100	Horizontal	Pass
5	7236.000	56.21	2.14	74.0	17.79	Peak	318.00	100	Horizontal	Pass
5**	7236.000	45.74	2.14	54.0	8.26	AV	318.00	100	Horizontal	Pass
6	9810.500	53.28	1.22	74.0	20.72	Peak	132.00	100	Horizontal	Pass
6**	9810.500	43.48	1.22	54.0	10.52	AV	132.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2023.12.05	2024.12.04	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2023.12.05	2024.12.04	☒
Amplifier (18-40GHz)	COM-MV	KA LNA18- 40G-01	18050001	2023.12.05	2024.12.04	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Test Antenna- Horn	A-INFOMW	LB- 180400KF	J211060273	2021.07.02	2024.07.01	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

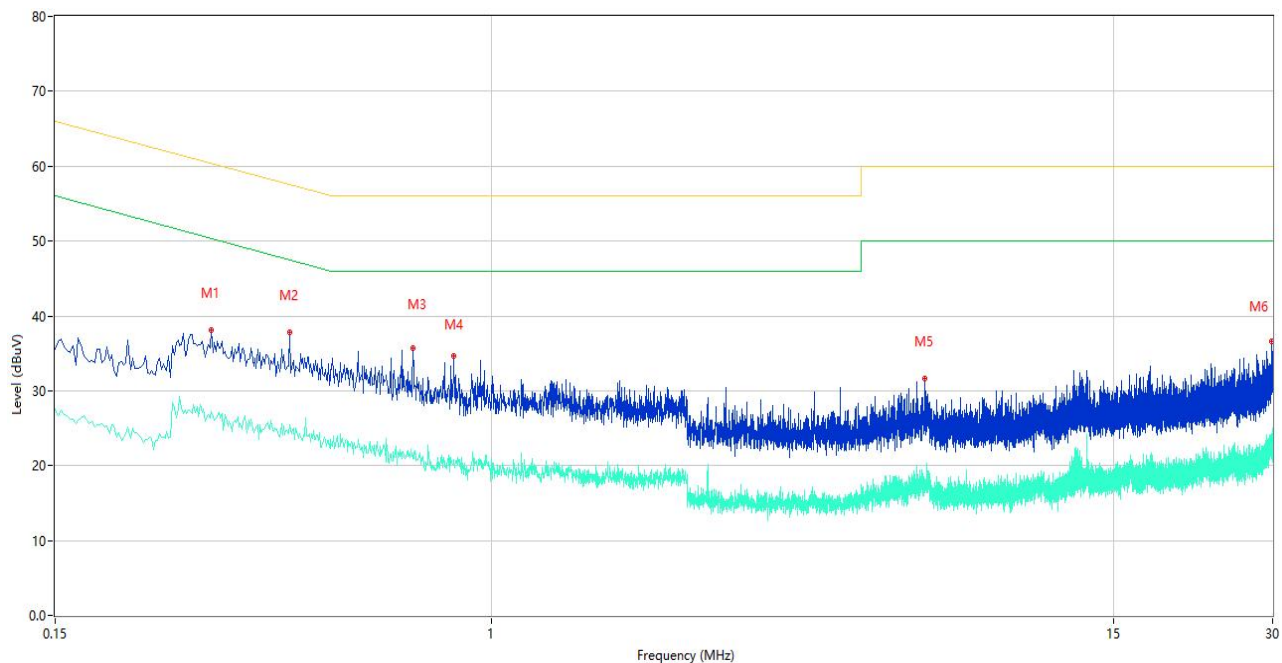
## A.2 Conducted Emission, AC Ports

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (230 VAC, 60 Hz) shown here.

Sample No.	S01	Temperature	22.5°C
Humidity	56%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.04.24

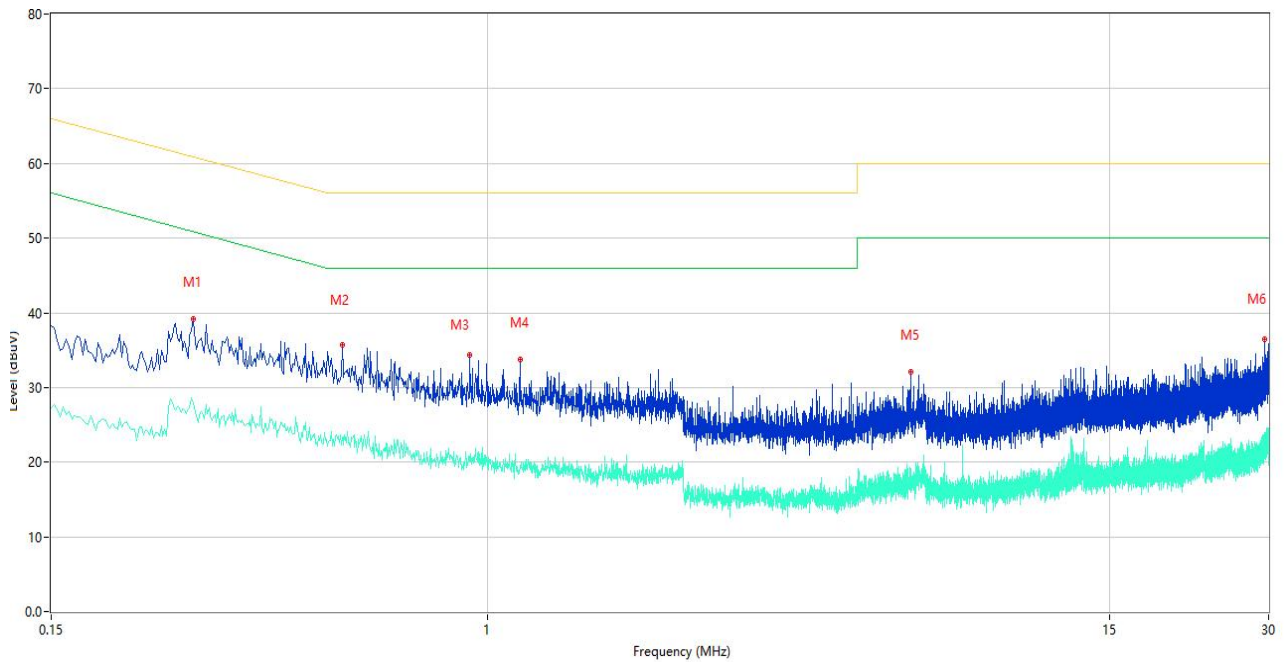
### Test Mode 2

#### 1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.296	38.08	10.07	60.35	22.27	Peak	L	Pass
1**	0.296	27.30	10.07	50.35	23.05	AV	L	Pass
2	0.416	37.78	10.63	57.53	19.75	Peak	L	Pass
2**	0.416	25.40	10.63	47.53	22.13	AV	L	Pass
3	0.712	35.65	10.58	56.00	20.35	Peak	L	Pass
3**	0.712	20.94	10.58	46.00	25.06	AV	L	Pass
4	0.850	34.58	10.66	56.00	21.42	Peak	L	Pass
4**	0.850	20.84	10.66	46.00	25.16	AV	L	Pass
5	6.594	31.66	10.84	60.00	28.34	Peak	L	Pass
5**	6.594	18.19	10.84	50.00	31.81	AV	L	Pass
6	29.812	36.54	14.43	60.00	23.46	Peak	L	Pass
6**	29.812	23.71	14.43	50.00	26.29	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.278	39.21	10.06	60.88	21.67	Peak	N	Pass
1**	0.278	27.90	10.06	50.88	22.98	AV	N	Pass
2	0.532	35.63	10.43	56.00	20.37	Peak	N	Pass
2**	0.532	23.36	10.43	46.00	22.64	AV	N	Pass
3	0.928	34.34	10.61	56.00	21.66	Peak	N	Pass
3**	0.928	20.12	10.61	46.00	25.88	AV	N	Pass
4	1.154	33.71	10.36	56.00	22.29	Peak	N	Pass
4**	1.154	19.43	10.36	46.00	26.57	AV	N	Pass
5	6.318	32.02	11.04	60.00	27.98	Peak	N	Pass
5**	6.318	17.97	11.04	50.00	32.03	AV	N	Pass
6	29.518	36.48	14.27	60.00	23.52	Peak	N	Pass
6**	29.518	21.55	14.27	50.00	28.45	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2024.04.24	2025.04.23	<input type="checkbox"/>
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2022.02.19	2025.02.18	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>



## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2440562-AE.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2440562-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2440562-AI.PDF”.

## Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--