

# TEST REPORT

**Applicant:** Xiaomi Communications Co., Ltd.  
**Address:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,  
Haidian District, Beijing, China, 100085  
**Equipment Type:** Mobile Phone  
**Model Name:** 2508CRN2BE  
**Brand Name:** Redmi  
**FCC ID:** 2AFZZRN2BE  
**Test Standard:** 47 CFR Part 15 Subpart B  
ANSI C63.4-2014  
**Sample Arrival Date:** Jun. 04, 2025  
**Test Date:** Jun. 06, 2025 - Jun. 07, 2025  
**Date of Issue:** Aug. 06, 2025

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Li JunFeng    **Checked by:** Zong Liyao

**Approved by:** Tolan Tu  
(Testing Director)



<b>Revision History</b>		
<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
<u>Rev. 01</u>	<u>Jul. 02, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Aug. 06, 2025</u>	<u>Update the software version</u>

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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. The certification body is American Association for Laboratory Accreditation (A2LA).

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

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

EUT Name	Mobile Phone
Model Name Under Test	2508CRN2BE
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135100P15
Software Version	Xiaomi HyperOS 2.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	SC-SZ2550278: S28, S32, S33, S49, S39
IMEI Number	SC-SZ2550278-S28: IMEI1: 868544070046824; IMEI2: 868544070046832
	SC-SZ2550278-S32: IMEI1: 868544070046709; IMEI2: 868544070046717
	SC-SZ2550278-S33: IMEI1: 868544070063423; IMEI2: 868544070063431
	SC-SZ2550278-S49: IMEI1: 868544070077068; IMEI2: 868544070077076
	SC-SZ2550278-S39: IMEI1: 868544070037625; IMEI2: 868544070037633

### 2.4 Ancillary Equipment

Please refer the document "BL-SZ2560099-AW EUT external photo.pdf".

## 2.5 Technical Information

<p>Network and Wireless connectivity</p>	<p>2G Network GSM/GPRS/EDGE 850/1900                  3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+ Band 2/4/5                  4G Network FDD LTE Band 2/4/5/7/12/13/17/18/19/26/66/71                  TDD LTE Band 38/41/42/48                  LTE CA Uplink (UL): CA_7C, CA_38C, CA_2A-4A, CA_2A-7A, CA_4A-5A, CA_4A-7A                  5G Network                  SA: NR n2/n5/n7/n12/n26/n38/n41/n48/n66/n71/n77/n78                  NSA(EN-DC): DC_2A_n78A, DC_2A_n77A, DC_2A_n66A, DC_2A_n41A, DC_2A_n38A, DC_2A_n7A, DC_4A_n78A, DC_4A_n66A, DC_4A_n41A, DC_4A_n38A, DC_4A_n7A, DC_4A_n2A, DC_5A_n78A, DC_5A_n66A, DC_5A_n41A, DC_5A_n7A, DC_7A_n78A, DC_7A_n66A, DC_7A_n5A, DC_18A_n77A, DC_19A_n78A, DC_26A_n78A, DC_66A_n78A, DC_66A_n41A, DC_66A_n38A, DC_66A_n7A, DC_66A_n2A, DC_38A_n78A, DC_41A_n78A                  Bluetooth (BR+EDR+BLE)                  2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)                  5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80)                  GPS, Beidou , Galileo, Glonass , NFC, FM receiver</p>
<p>Classification of equipment</p>	<p>Class B</p>

### 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
Laptop	Lenovo	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Data connector	HBR	type-c to USB 3.0	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB disk	Sandisk	CZ73-32G	N/A	N/A	32G	<input checked="" type="checkbox"/>
Phone holder	Xiaomi	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Earphone	Xiaomi	EM023	N/A	1.25m	N/A	<input checked="" type="checkbox"/>
TF Card	Samsung	MB-MD256KA	N/A	N/A	256G	<input checked="" type="checkbox"/>
Type-C Earphone	Xiaomi	M2413E1	N/A	1.25m	N/A	<input checked="" type="checkbox"/>
Laptop	Honor	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Wireless Communications Test Set	R&S	CMW500	121551	N/A	Cal. Due 2026.03.21	<input checked="" type="checkbox"/>
5G Comprehensive Tester	Keysight	E7515B	N/A	N/A	Cal. Due 2025.08.11	<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 Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
Mode 3	<u>The Back Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
Mode 4	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Earphone
Mode 5	<u>The Phone holder Test Mode</u> EUT + Adapter + USB Cable + Battery + Phone holder + TF Card + Earphone
Mode 6	<u>The GSM850 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + GSM850 RX + Earphone
Mode 7	<u>The WCDMA Band5 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + WCDMA Band5 RX + Earphone

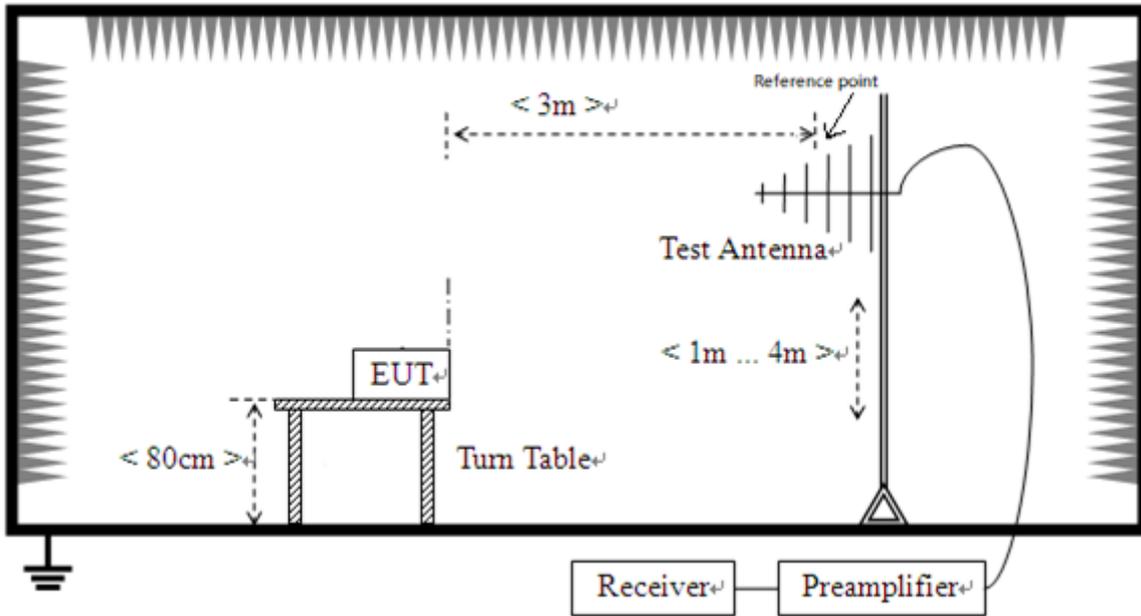
Mode 8	<u>The FDD LTE Band5 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band5 + Earphone RX
Mode 9	<u>The FDD LTE Band12 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band12 RX + Earphone
Mode 10	<u>The FDD LTE Band13 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band13 RX + Earphone
Mode 11	<u>The FDD LTE Band17 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band17 RX + Earphone
Mode 12	<u>The FDD LTE Band18 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band18 RX + Earphone
Mode 13	<u>The FDD LTE Band19 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band19 RX + Earphone
Mode 14	<u>The FDD LTE Band26 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band26 RX + Earphone
Mode 15	<u>The FDD LTE Band71 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + LTE Band71 RX + Earphone
Mode 16	<u>The n5 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + n5 RX + Earphone
Mode 17	<u>The n12 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + n12 RX + Earphone
Mode 18	<u>The n26 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + n26 RX + Earphone
Mode 19	<u>The n71 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + n71 RX + Earphone
Mode 20	<u>The FM Test Mode</u> FM RX + EUT + Adapter + USB Cable + Battery + Earphone + TF Card
Mode 21	<u>The Video Display Test Mode with internal speaker</u> EUT + Battery
Mode 22	<u>The Type-C Earphone Test Mode</u> EUT + Battery + Type-C Earphone + TF Card
Mode 23	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + TF Card + Earphone
Mode 24	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB disk + TF Card + Earphone

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 24	2, 23
Conducted Emission, AC Ports	Mode 1~Mode 20, Mode 23	1, 23

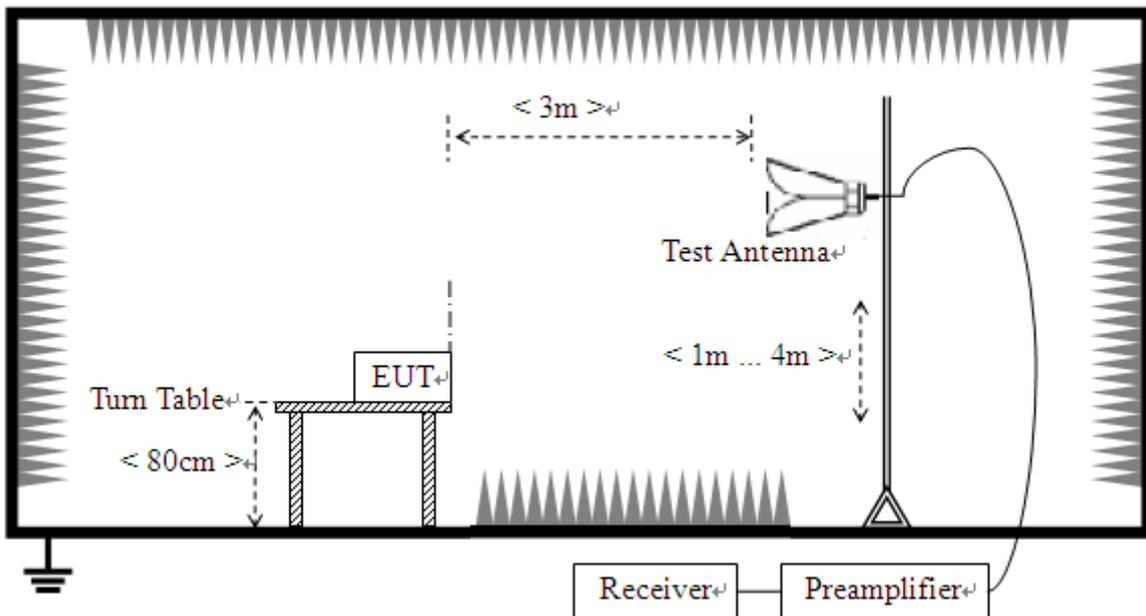
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.

### 4.3 Test Setups

#### Test Setup 1

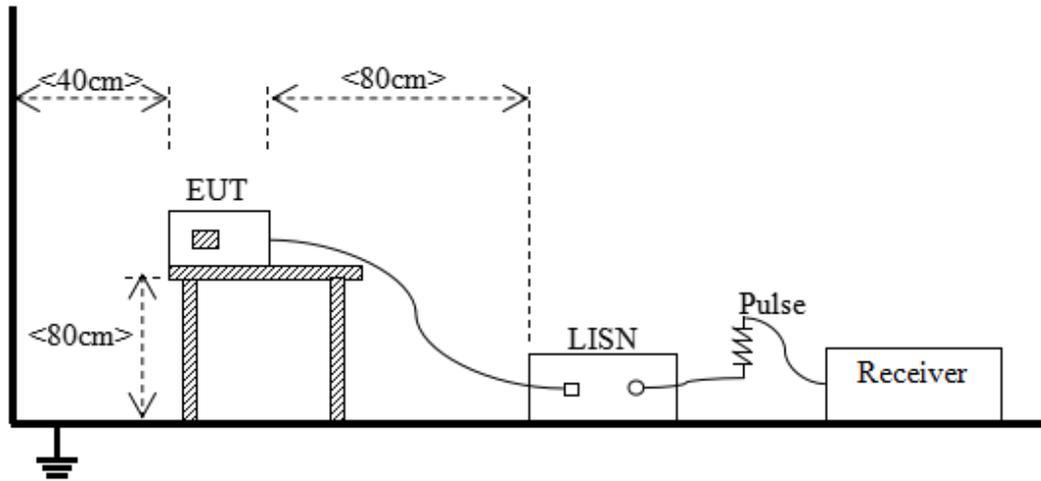


Radiated Emission (30 MHz-1 GHz)



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 (dBμV)	Average (dBμV)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dBμV)	Average (dBμV)
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 Ω/50 μH 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 ≥ 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.

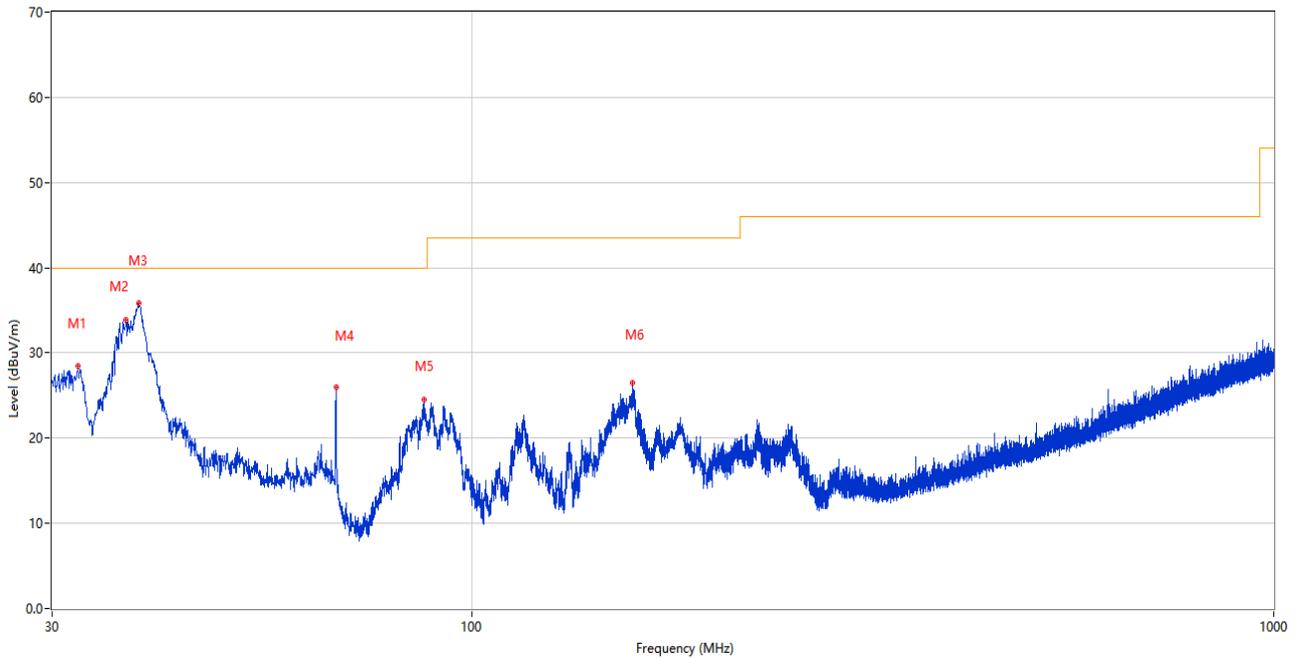
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.

Sample No.	S32	Temperature	23.7°C
Humidity	55%RH	Pressure	101kPa
Test Engineer	Chen Jingran	Test Date	2025.06.06

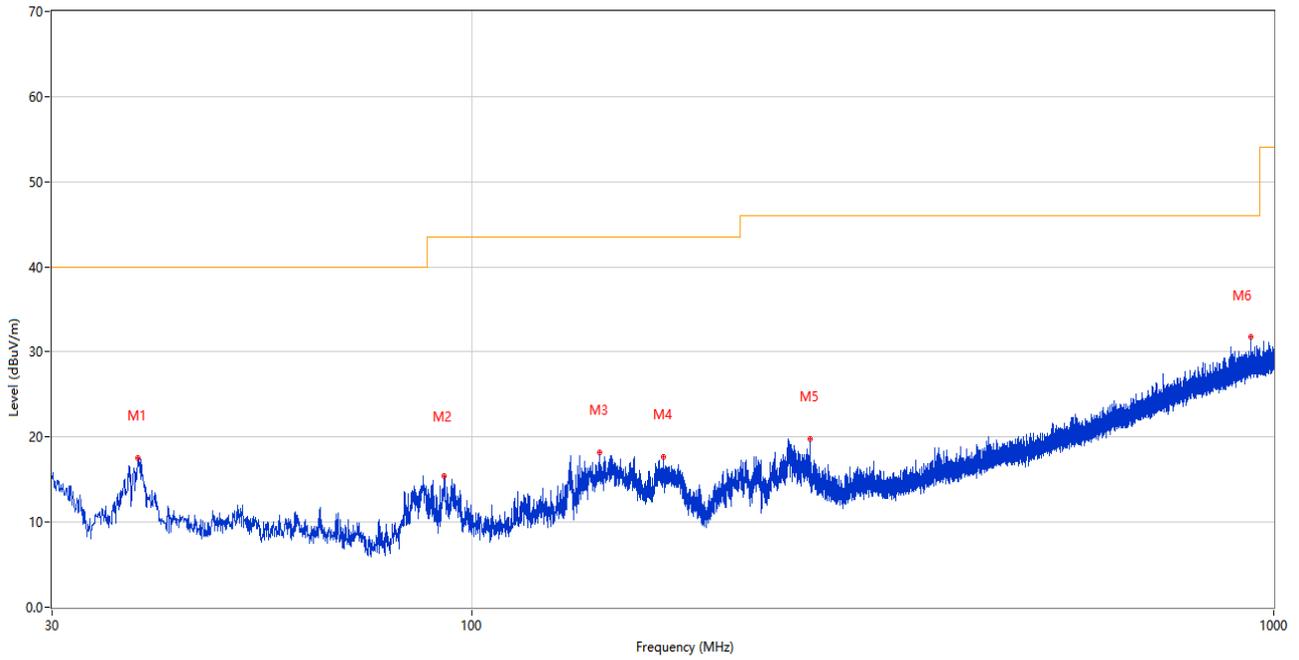
**Test Mode 2**

**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	32.328	28.43	-27.24	40.0	11.57	Peak	145.00	100	Vertical	Pass
2	37.130	33.84	-26.54	40.0	6.16	Peak	205.00	100	Vertical	Pass
3	38.439	35.90	-25.41	40.0	4.10	Peak	199.00	100	Vertical	Pass
4	67.830	26.01	-28.20	40.0	13.99	Peak	92.00	100	Vertical	Pass
5	87.279	24.50	-30.22	40.0	15.50	Peak	228.00	100	Vertical	Pass
6	158.768	26.48	-24.72	43.5	17.02	Peak	295.00	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	38.391	17.53	-25.57	40.0	22.47	Peak	101.00	200	Horizontal	Pass
2	92.517	15.47	-29.74	43.5	28.03	Peak	241.00	200	Horizontal	Pass
3	144.218	18.17	-25.32	43.5	25.33	Peak	244.00	100	Horizontal	Pass
4	173.318	17.72	-25.67	43.5	25.78	Peak	277.00	200	Horizontal	Pass
5	264.255	19.81	-25.69	46.0	26.19	Peak	86.00	100	Horizontal	Pass
6	936.513	31.74	-8.81	46.0	14.26	Peak	120.00	100	Horizontal	Pass

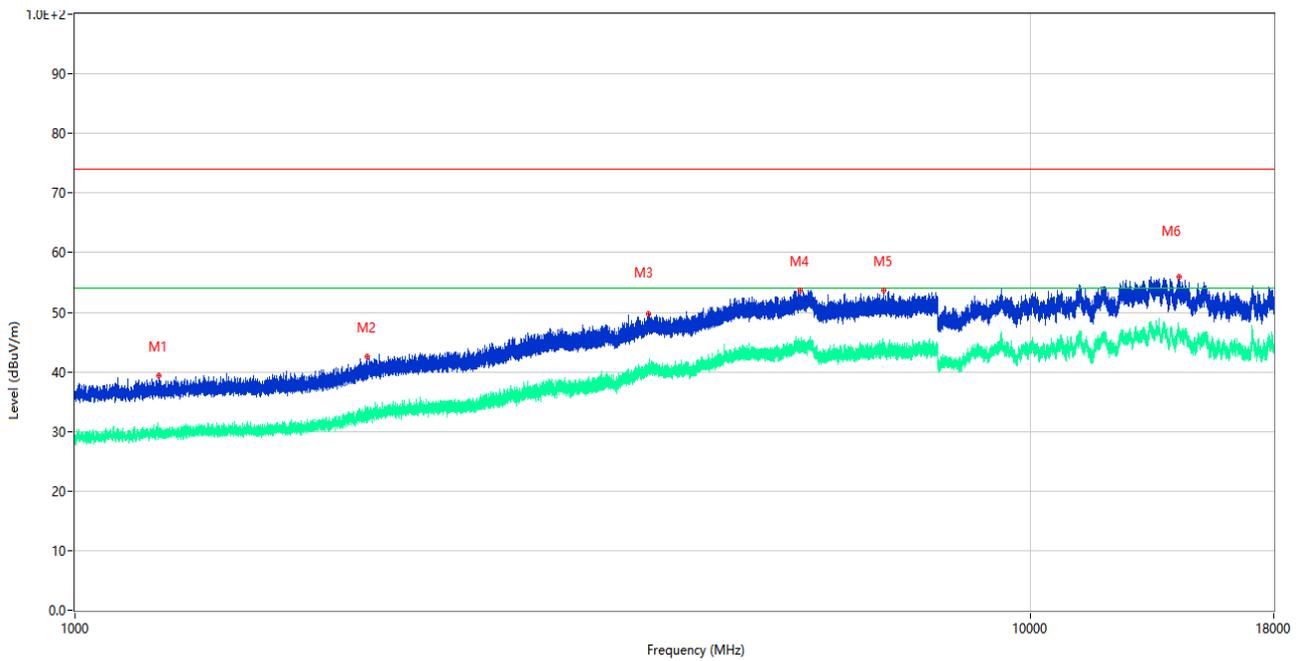
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	00867	2025.04.12	2028.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	<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 – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1264.810	39.33	-15.65	74.0	34.67	Peak	97.00	100	Vertical	Pass
1**	1264.810	29.10	-15.65	54.0	24.90	AV	97.00	100	Vertical	Pass
2	2726.530	45.12	-9.23	74.0	28.88	Peak	214.00	100	Vertical	Pass
2**	2726.530	36.01	-9.23	54.0	17.99	AV	214.00	100	Vertical	Pass
3	4074.100	49.97	-1.54	74.0	24.03	Peak	360.00	100	Vertical	Pass
3**	4074.100	41.00	-1.54	54.0	13.00	AV	360.00	100	Vertical	Pass
4	5772.940	53.77	1.45	74.0	20.23	Peak	7.00	100	Vertical	Pass
4**	5772.940	44.55	1.45	54.0	9.45	AV	7.00	100	Vertical	Pass
5	7751.180	54.58	0.41	74.0	19.42	Peak	95.00	100	Vertical	Pass
5**	7751.180	44.27	0.41	54.0	9.73	AV	95.00	100	Vertical	Pass
6	13830.500	56.96	5.42	74.0	17.04	Peak	112.00	100	Vertical	Pass
6**	13830.500	46.83	5.42	54.0	7.17	AV	112.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

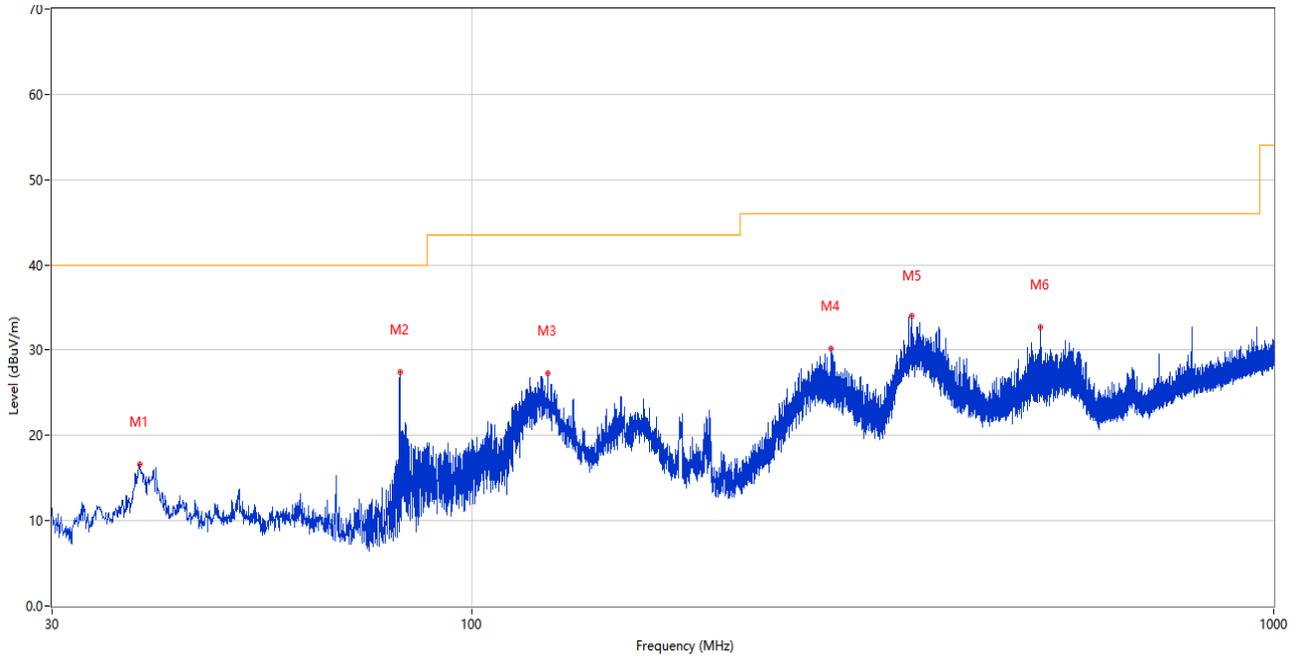


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1224.640	39.33	-15.71	74.0	34.67	Peak	195.00	100	Horizontal	Pass
1**	1224.640	29.03	-15.71	54.0	24.97	AV	195.00	100	Horizontal	Pass
2	2024.660	42.49	-13.18	74.0	31.51	Peak	334.00	100	Horizontal	Pass
2**	2024.660	32.45	-13.18	54.0	21.55	AV	334.00	100	Horizontal	Pass
3	3983.240	49.79	-1.69	74.0	24.21	Peak	326.00	100	Horizontal	Pass
3**	3983.240	40.76	-1.69	54.0	13.24	AV	326.00	100	Horizontal	Pass
4	5748.960	53.62	1.26	74.0	20.38	Peak	115.00	100	Horizontal	Pass
4**	5748.960	43.56	1.26	54.0	10.44	AV	115.00	100	Horizontal	Pass
5	7036.620	53.66	-0.51	74.0	20.34	Peak	105.00	100	Horizontal	Pass
5**	7036.620	43.32	-0.51	54.0	10.68	AV	105.00	100	Horizontal	Pass
6	14324.500	55.95	4.54	74.0	18.05	Peak	10.00	100	Horizontal	Pass
6**	14324.500	46.55	4.54	54.0	7.45	AV	10.00	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	2024.08.01	2025.07.31	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2025.05.20	2028.05.19	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

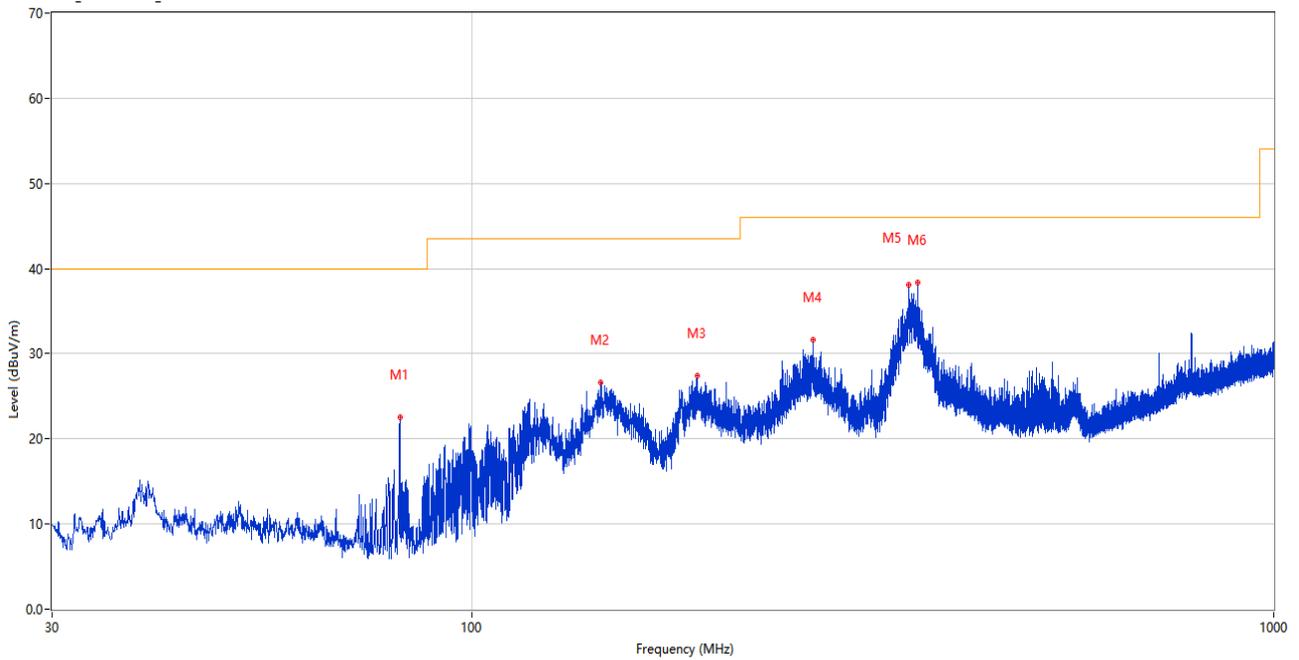
Test Mode 23

5) 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	38.584	16.59	-25.18	40.0	23.41	Peak	309.00	100	Vertical	Pass
2	81.362	27.42	-30.16	40.0	12.58	Peak	348.00	200	Vertical	Pass
3	124.381	27.25	-26.25	43.5	16.25	Peak	337.00	100	Vertical	Pass
4	280.939	30.21	-25.02	46.0	15.79	Peak	181.00	200	Vertical	Pass
5	353.398	34.01	-22.80	46.0	11.99	Peak	213.00	100	Vertical	Pass
6	512.284	32.65	-18.63	46.0	13.35	Peak	196.00	200	Vertical	Pass

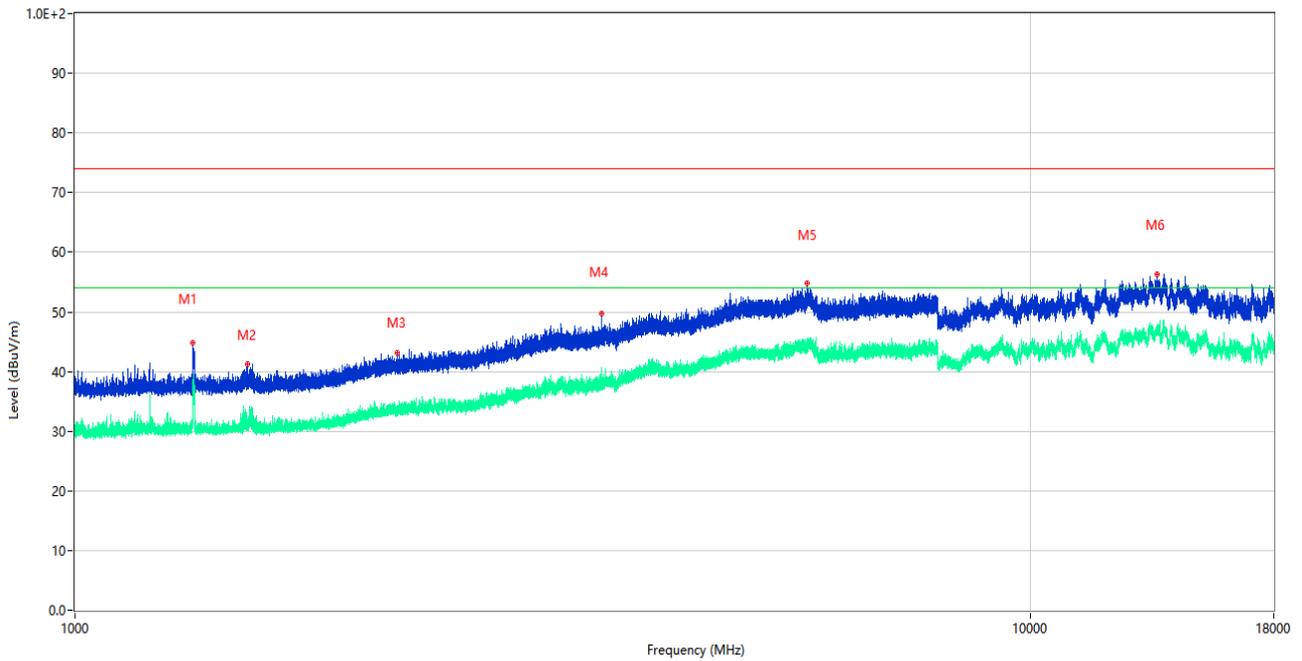
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	81.362	22.58	-30.16	40.0	17.42	Peak	268.00	200	Horizontal	Pass
2	144.848	26.64	-25.15	43.5	16.86	Peak	152.00	200	Horizontal	Pass
3	191.166	27.43	-27.92	43.5	16.07	Peak	323.00	200	Horizontal	Pass
4	266.438	31.66	-25.71	46.0	14.34	Peak	99.00	100	Horizontal	Pass
5	350.730	38.03	-22.93	46.0	7.97	Peak	221.00	100	Horizontal	Pass
6	359.654	38.31	-22.67	46.0	7.69	Peak	81.00	100	Horizontal	Pass

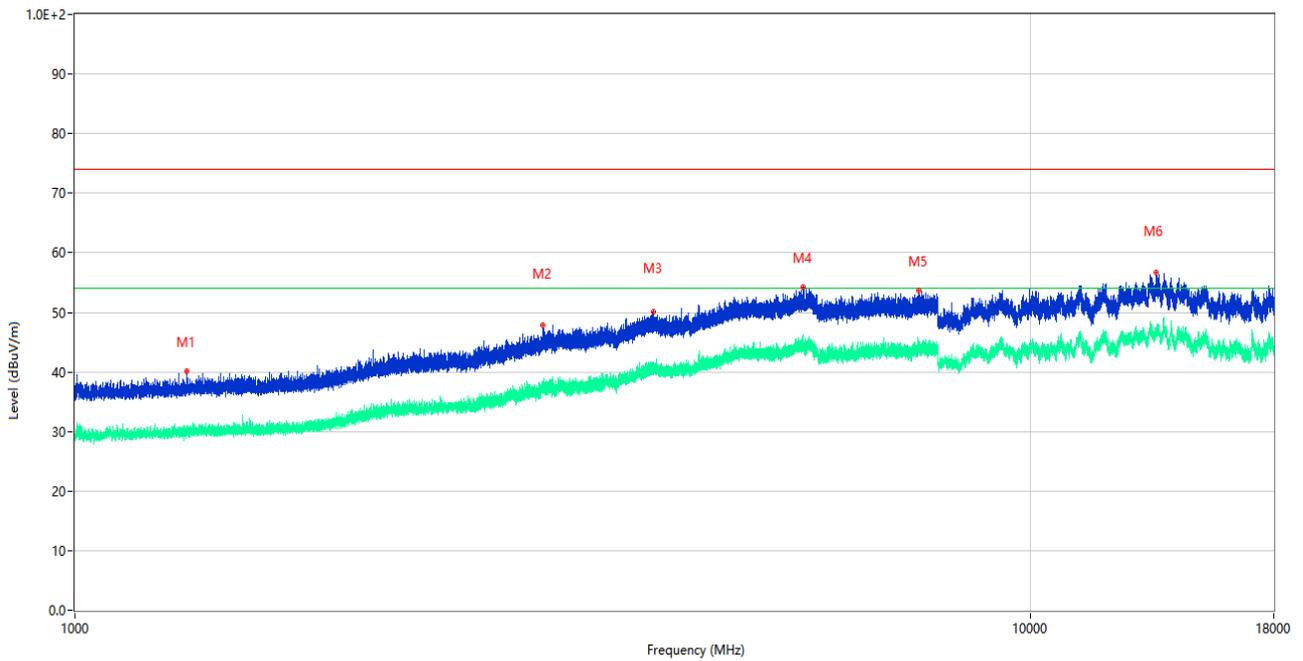
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	00867	2025.04.12	2028.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

7) Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.550	44.73	-15.70	74.0	29.27	Peak	233.00	100	Vertical	Pass
1**	1329.550	35.25	-15.70	54.0	18.75	AV	233.00	100	Vertical	Pass
2	1516.100	41.23	-15.42	74.0	32.77	Peak	279.00	100	Vertical	Pass
2**	1516.100	31.04	-15.42	54.0	22.96	AV	279.00	100	Vertical	Pass
3	2172.860	43.17	-12.13	74.0	30.83	Peak	134.00	100	Vertical	Pass
3**	2172.860	33.49	-12.13	54.0	20.51	AV	134.00	100	Vertical	Pass
4	3555.670	49.68	-4.71	74.0	24.32	Peak	202.00	100	Vertical	Pass
4**	3555.670	38.29	-4.71	54.0	15.71	AV	202.00	100	Vertical	Pass
5	5847.080	54.87	2.24	74.0	19.13	Peak	314.00	100	Vertical	Pass
5**	5847.080	43.83	2.24	54.0	10.17	AV	314.00	100	Vertical	Pass
6	13573.500	56.33	4.73	74.0	17.67	Peak	171.00	100	Vertical	Pass
6**	13573.500	46.98	4.73	54.0	7.02	AV	171.00	100	Vertical	Pass

8) Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1309.920	40.04	-15.40	74.0	33.96	Peak	19.00	100	Horizontal	Pass
1**	1309.920	29.61	-15.40	54.0	24.39	AV	19.00	100	Horizontal	Pass
2	3090.010	47.90	-6.60	74.0	26.10	Peak	360.00	100	Horizontal	Pass
2**	3090.010	38.47	-6.60	54.0	15.53	AV	360.00	100	Horizontal	Pass
3	4032.740	50.10	-2.55	74.0	23.90	Peak	280.00	100	Horizontal	Pass
3**	4032.740	40.36	-2.55	54.0	13.64	AV	280.00	100	Horizontal	Pass
4	5780.200	54.20	1.68	74.0	19.80	Peak	163.00	100	Horizontal	Pass
4**	5780.200	44.24	1.68	54.0	9.76	AV	163.00	100	Horizontal	Pass
5	7653.060	53.62	0.27	74.0	20.38	Peak	251.00	100	Horizontal	Pass
5**	7653.060	43.87	0.27	54.0	10.13	AV	251.00	100	Horizontal	Pass
6	13568.000	56.76	4.73	74.0	17.24	Peak	112.00	100	Horizontal	Pass
6**	13568.000	46.68	4.73	54.0	7.32	AV	112.00	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	2024.08.01	2025.07.31	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2024.11.28	2025.11.27	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2025.05.20	2028.05.19	<input checked="" type="checkbox"/>
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	<input checked="" type="checkbox"/>
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		<input checked="" type="checkbox"/>

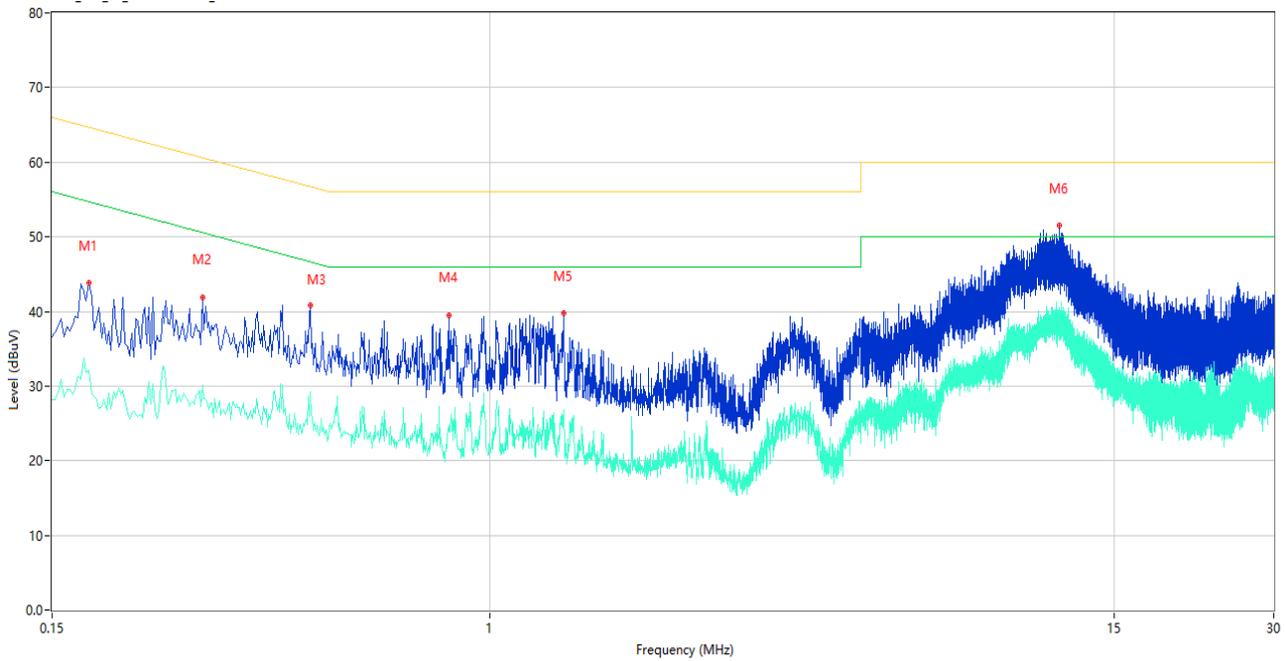
## A.2 Conducted Emission, AC Ports

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 (120 VAC, 60 Hz ) shown here.

Sample No.	S28	Temperature	23.1°C
Humidity	52%RH	Pressure	101kPa
Test Engineer	Yang yang	Test Date	2025.06.07

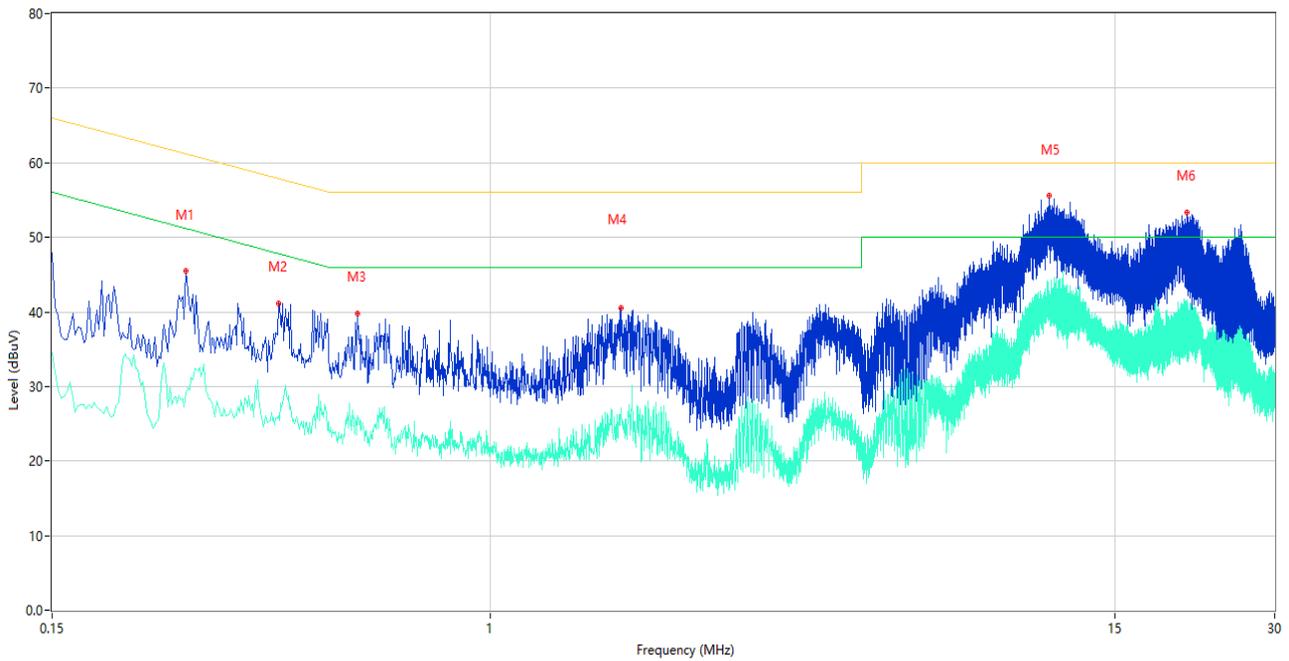
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	43.81	10.06	64.67	20.86	Peak	L	Pass
1**	0.176	32.16	10.06	54.67	22.51	AV	L	Pass
2	0.288	41.93	10.04	60.58	18.65	Peak	L	Pass
2**	0.288	30.12	10.04	50.58	20.46	AV	L	Pass
3	0.460	40.81	10.50	56.69	15.88	Peak	L	Pass
3**	0.460	29.21	10.50	46.69	17.48	AV	L	Pass
4	0.838	39.54	10.46	56.00	16.46	Peak	L	Pass
4**	0.838	24.72	10.46	46.00	21.28	AV	L	Pass
5	1.378	39.77	10.77	56.00	16.23	Peak	L	Pass
5**	1.378	24.73	10.77	46.00	21.27	AV	L	Pass
6	11.834	51.49	12.52	60.00	8.51	Peak	L	Pass
6**	11.834	39.18	12.52	50.00	10.82	AV	L	Pass

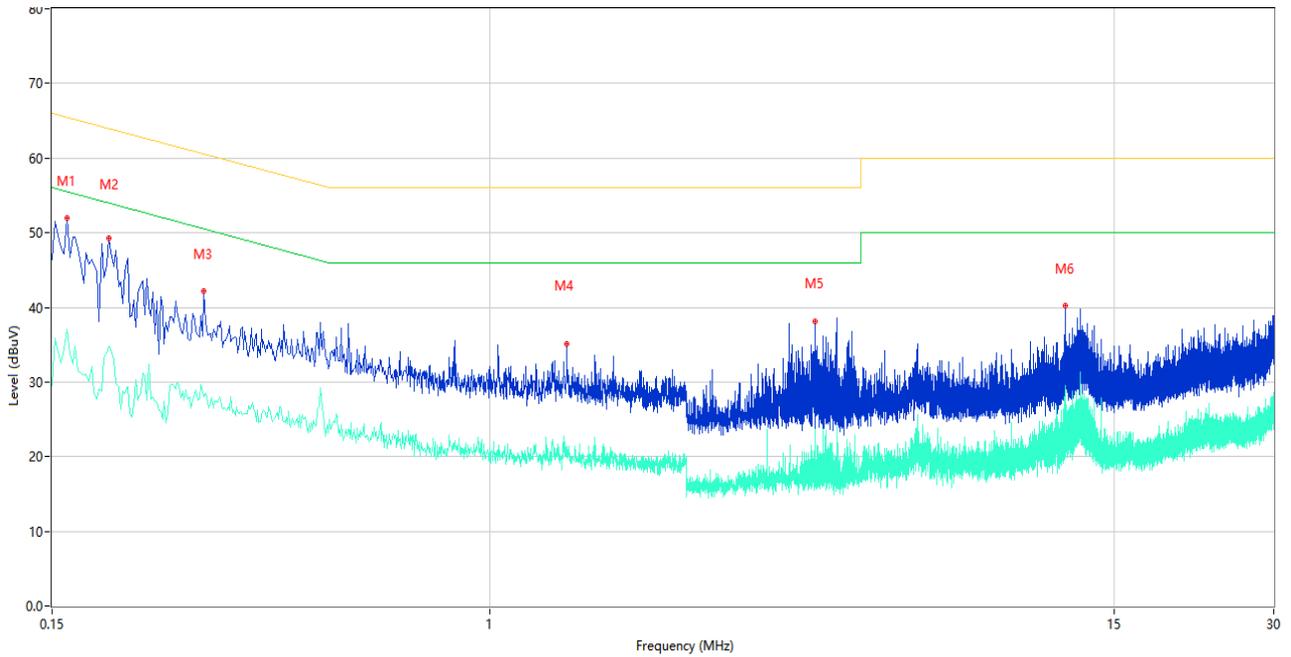
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.268	45.53	10.03	61.18	15.65	Peak	N	Pass
1**	0.268	29.02	10.03	51.18	22.16	AV	N	Pass
2	0.400	41.14	10.62	57.85	16.71	Peak	N	Pass
2**	0.400	26.10	10.62	47.85	21.75	AV	N	Pass
3	0.564	39.78	10.51	56.00	16.22	Peak	N	Pass
3**	0.564	26.00	10.51	46.00	20.00	AV	N	Pass
4	1.764	40.57	10.56	56.00	15.43	Peak	N	Pass
4**	1.764	27.12	10.56	46.00	18.88	AV	N	Pass
5	11.268	55.60	12.65	60.00	4.40	Peak	N	Pass
5**	11.268	40.90	12.65	50.00	9.10	AV	N	Pass
6	20.546	53.37	15.19	60.00	6.63	Peak	N	Pass
6**	20.546	39.82	15.19	50.00	10.18	AV	N	Pass

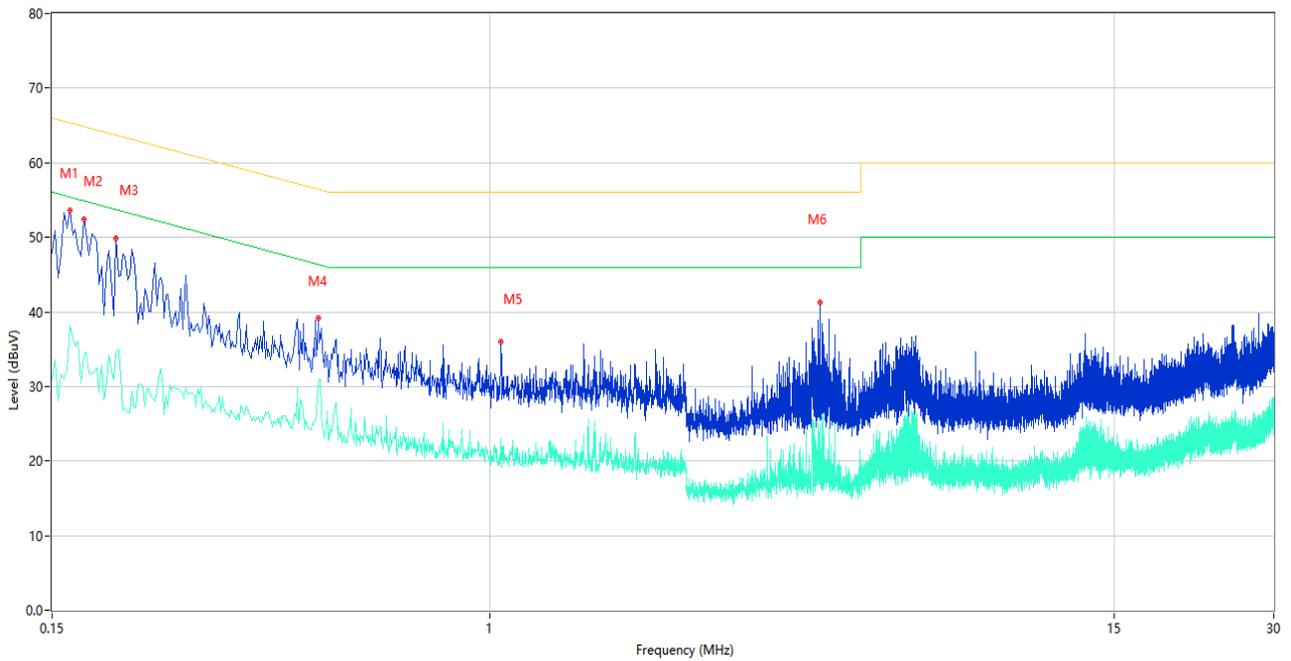
Test Mode 23

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	51.99	10.10	65.46	13.47	Peak	L	Pass
1**	0.160	37.12	10.10	55.46	18.34	AV	L	Pass
2	0.192	49.30	10.04	63.95	14.65	Peak	L	Pass
2**	0.192	34.84	10.04	53.95	19.11	AV	L	Pass
3	0.290	42.20	10.04	60.52	18.32	Peak	L	Pass
3**	0.290	28.06	10.04	50.52	22.46	AV	L	Pass
4	1.398	35.07	10.92	56.00	20.93	Peak	L	Pass
4**	1.398	21.37	10.92	46.00	24.63	AV	L	Pass
5	4.094	38.10	11.15	56.00	17.90	Peak	L	Pass
5**	4.094	23.63	11.15	46.00	22.37	AV	L	Pass
6	12.152	40.23	12.74	60.00	19.77	Peak	L	Pass
6**	12.152	29.54	12.74	50.00	20.46	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.162	53.58	10.09	63.66	11.78	Peak	N	Pass
1**	0.162	38.18	10.09	55.36	17.18	AV	N	Pass
2	0.172	52.50	10.06	64.86	12.36	Peak	N	Pass
2**	0.172	34.19	10.06	54.86	20.67	AV	N	Pass
3	0.198	49.91	10.03	63.69	13.78	Peak	N	Pass
3**	0.198	34.58	10.03	53.69	19.11	AV	N	Pass
4	0.476	39.21	10.42	56.41	17.20	Peak	N	Pass
4**	0.476	30.33	10.42	46.41	16.08	AV	N	Pass
5	1.052	36.06	10.16	56.00	19.94	Peak	N	Pass
5**	1.052	23.12	10.16	46.00	22.88	AV	N	Pass
6	4.192	41.27	10.65	56.00	14.73	Peak	N	Pass
6**	4.192	24.94	10.65	46.00	21.06	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28	<input checked="" type="checkbox"/>
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13	<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-SZ2560099-AE-1.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2560099-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2560099-AI.PDF”.

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--END OF REPORT--