

# TEST REPORT

**Applicant:** INFINIX MOBILITY LIMITED  
**Address:** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG  
**Equipment Type:** Mobile phone  
**Model Name:** X6837  
**Brand Name:** Infinix  
**FCC ID:** 2AIZN-YY5-X6837  
**Test Standard:** 47 CFR Part 15 Subpart B  
ANSI C63.4-2014  
**Sample Arrival Date:** Sep. 25, 2023  
**Test Date:** Sep. 28, 2023 - Oct. 10, 2023  
**Date of Issue:** Nov. 17, 2023

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Xin Liao

**Checked by:** Xia Long

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

*Xin Liao*

*Xia Long*

*Jianming Liao*

<b>Revision History</b>		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Nov. 17, 2023</u>	<u>Initial Issue</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.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

### 2.2 Manufacturer Information

Manufacturer	INFINIX MOBILITY LIMITED
Address	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

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

EUT Name	Mobile phone
Model Name Under Test	X6837
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	168.6mmx76.6mmx8.25mm
Weight (Approx.)	N/A

### 2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	Infinix
	Model No.	BL-49JX
	Serial No.	N/A
	Capacity	4900mAh/18.96Wh
	Rated Voltage	3.87 V
	Limit Charge Voltage	4.45 V
Ancillary Equipment 2	Adapter	
	Brand Name	Infinix
	Model No.	U330XSA
	Serial No.	N/A
	Rated Input	100-240V, 50/60Hz, 1.5A
	Rated Output	5V/3A 15W or 10V/3.3A 33W MAX
Ancillary Equipment 3	USB Cable	
	Model No.	N/A

	Length (Approx.)	1.0m
Ancillary Equipment 4	Headset	
	Model No.	N/A
	Length (Approx.)	1.2m

## 2.5 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE 850/1900 MHz</p> <p>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5</p> <p>4G Network LTE FDD Band 2/4/5/7/12/13/17/25/26/66 LTE TDD Band 38/41</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)</p> <p>U-NII-1/2A/2C/3, GPS, GLONASS, BeiDou, Galileo, FM Receiver, NFC</p>
Classification of equipment	Class B
The Highest internal frequency of EUT	5 GHz

### 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)-3m	4.8 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.9 dB

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2024.05.15	<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 + Headset
Mode 2	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 3	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 4	<u>The USB Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 5	<u>The FM Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + FM
Mode 6	<u>The GSM 850 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + GSM 850 RX
Mode 7	<u>The WCDMA Band 5 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + WCDMA Band 5 RX
Mode 8	<u>The FDD LTE Band 5 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + LTE Band 5 RX
Mode 9	<u>The FDD LTE Band 12 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + LTE Band 12 RX
Mode 10	<u>The FDD LTE Band 13 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + LTE Band 13 RX
Mode 11	<u>The FDD LTE Band 17 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + LTE Band 17 RX
Mode 12	<u>The FDD LTE Band 26 RX Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card + LTE Band 26 RX

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 12	3, 4

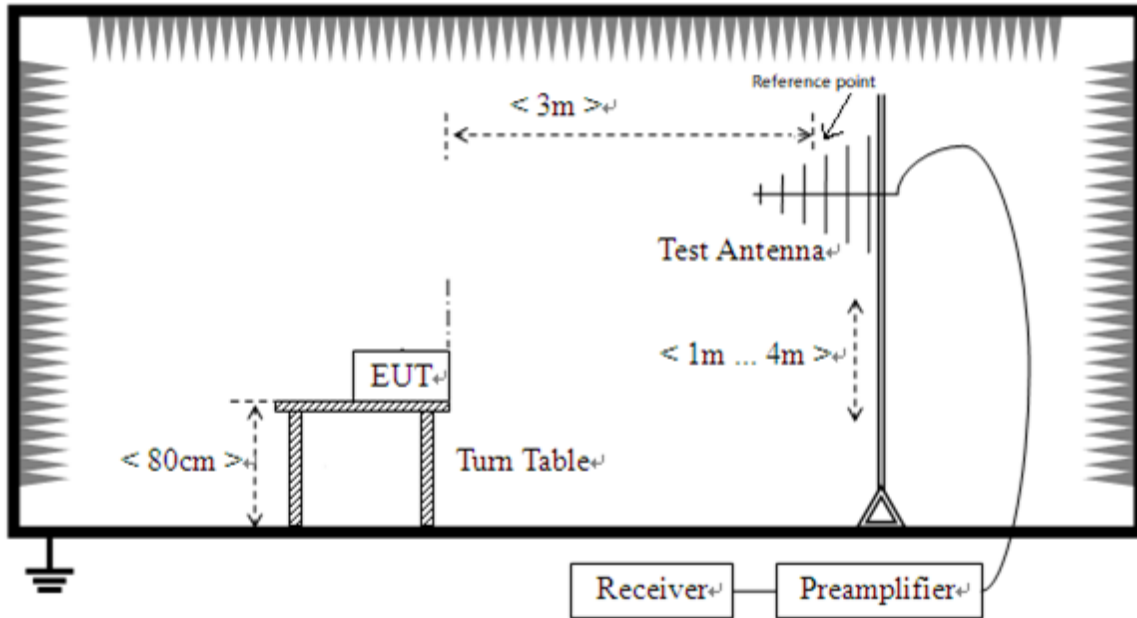


Test Case	Test Mode Configuration	Worst Mode
Conducted Emission, AC Ports	Mode 1~Mode 12	3, 4

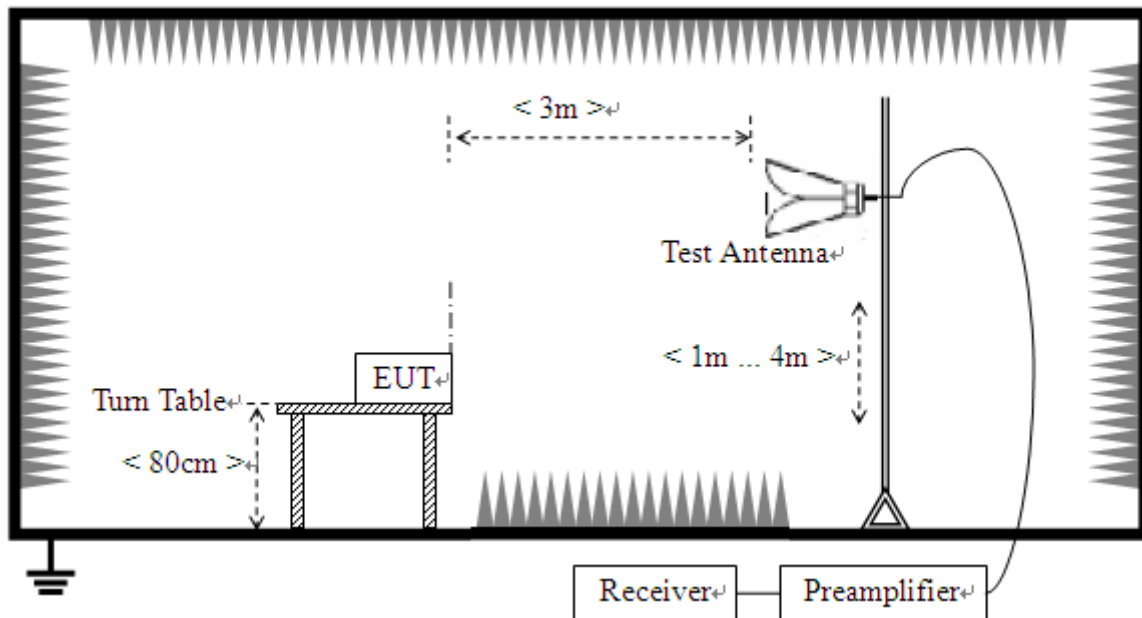
Note: Based on client request, all normal using modes of the normal function were tested, but only data of the worst mode was reported in this report.

### 4.3 Test Setups

#### Test Setup 1

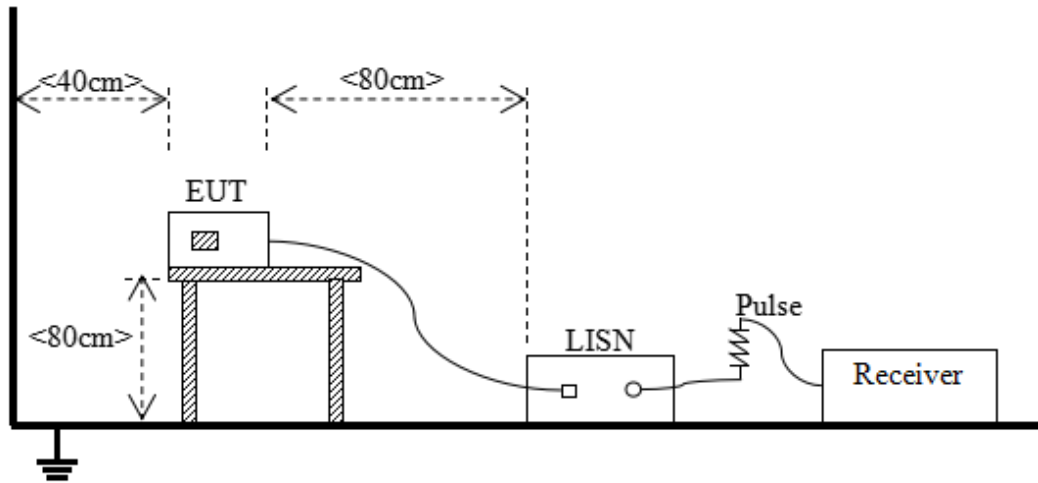


Radiated Emission (30 MHz-1 GHz)



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) The limits using ANSI C63.4.
- 4) 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

Highest internal frequency ( $F_X$ )	Highest measurement frequency ( $F_M$ )
$F_X \geq 1$ 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 to test setup 2) 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/m) + 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 3) 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.

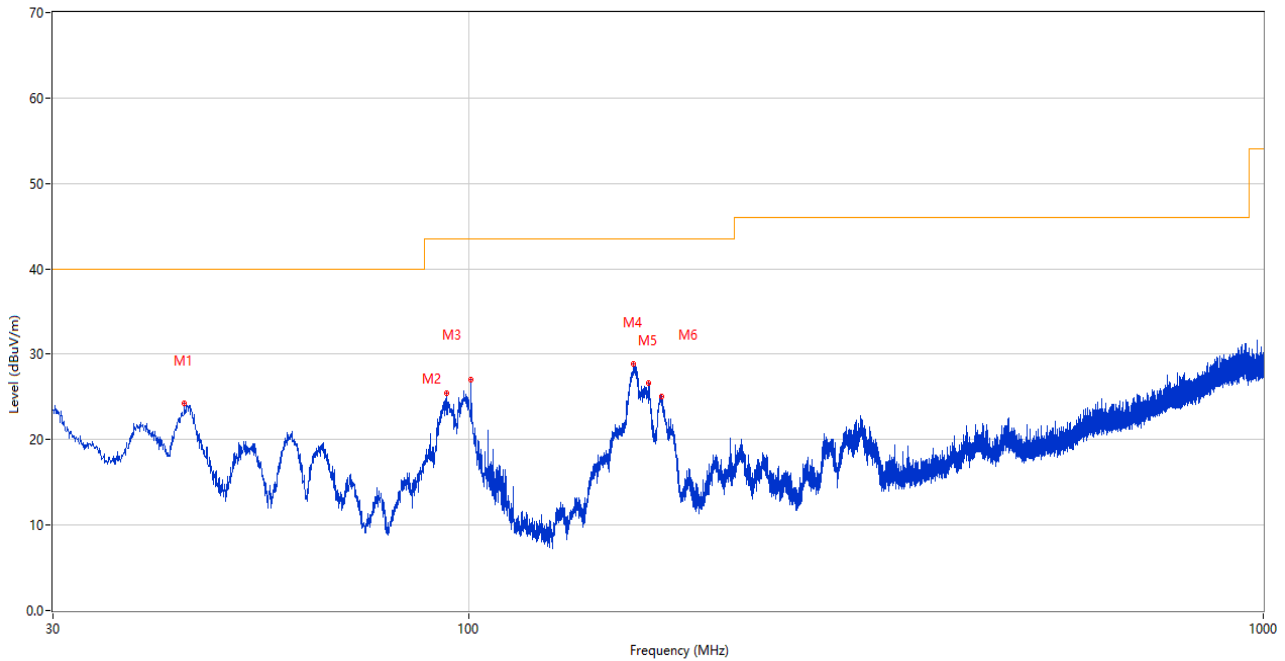
Note 3: The Radiated Emission is required to be investigated to the upper frequency of 5th harmonic of the highest internal frequency of EUT or 40 GHz, whichever is lower. The test results above 18GHz are only noise and are not recorded in the report.



Sample No.	S01	Temperature	23.5°C
Humidity	44%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2023.09.28

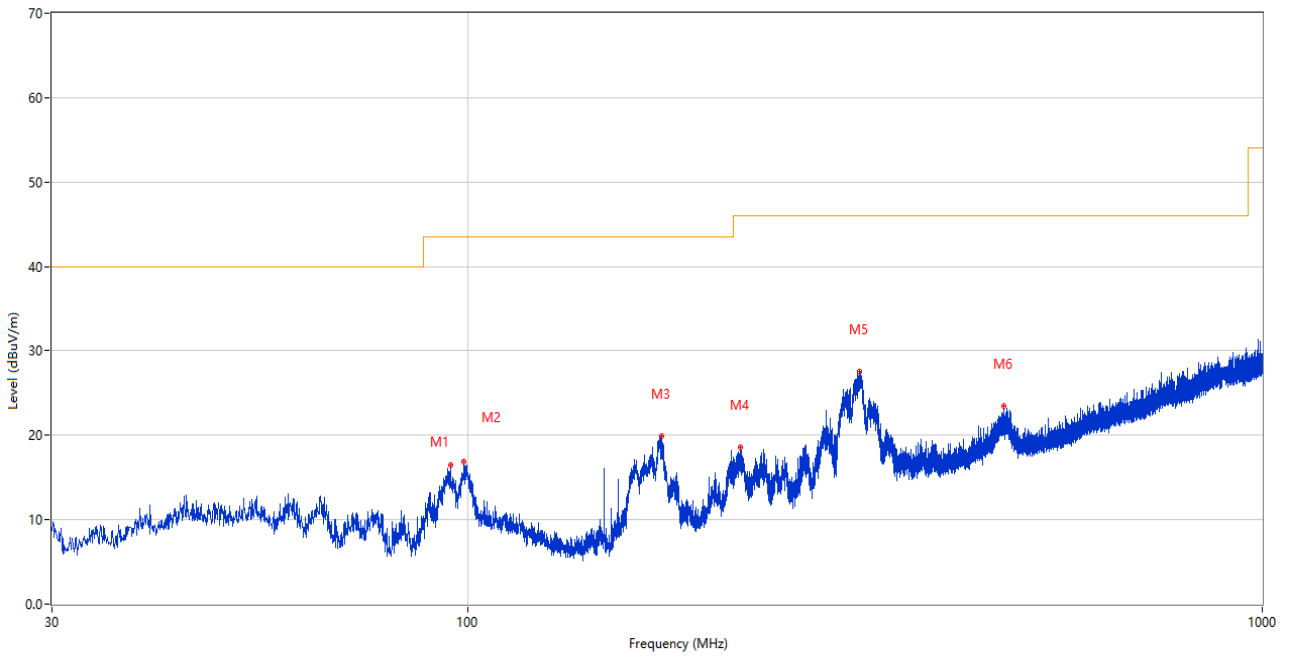
**Test Mode 3**

**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	43.871	24.21	-25.74	40.0	15.79	Peak	292.00	100	Vertical	Pass
2	93.826	25.42	-27.71	43.5	18.08	Peak	292.00	100	Vertical	Pass
3	100.761	27.00	-26.72	43.5	16.50	Peak	303.00	100	Vertical	Pass
4	161.387	28.81	-29.53	43.5	14.69	Peak	243.00	100	Vertical	Pass
5	168.613	26.62	-29.26	43.5	16.88	Peak	128.00	100	Vertical	Pass
6	174.967	25.08	-28.96	43.5	18.42	Peak	29.00	100	Vertical	Pass

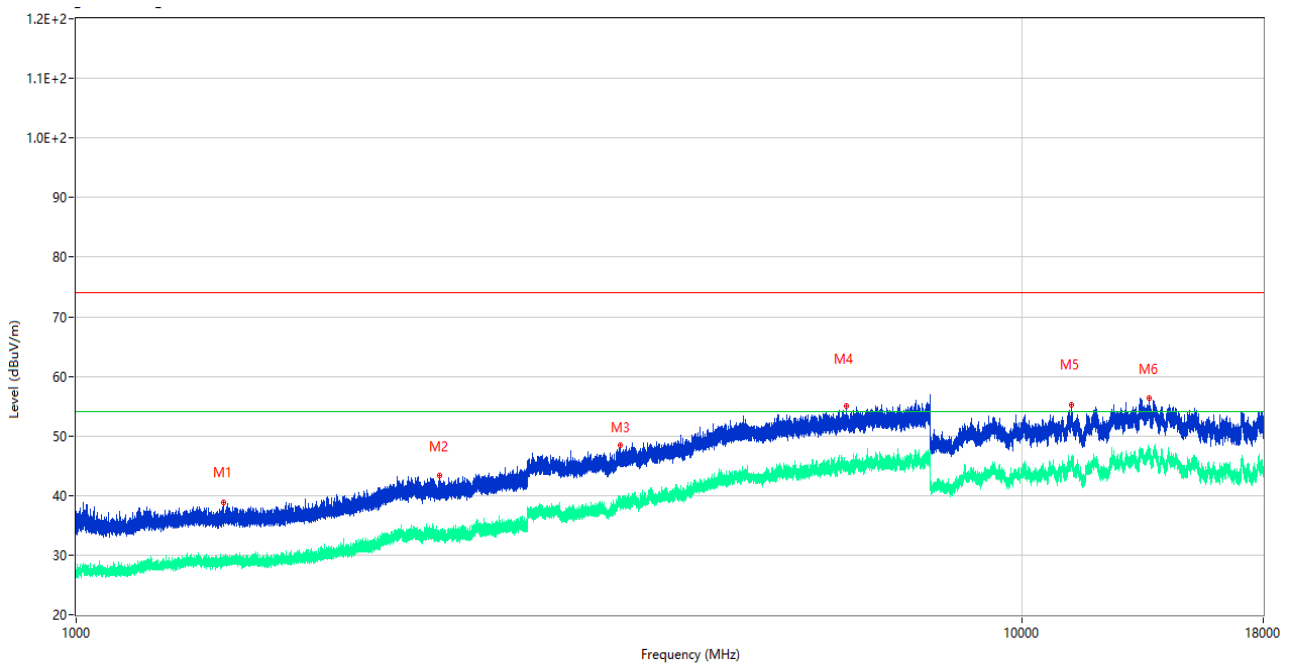
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	95.232	16.42	-27.55	43.5	27.08	Peak	248.00	200	Horizontal	Pass
2	99.016	16.94	-26.90	43.5	26.56	Peak	242.00	200	Horizontal	Pass
3	175.306	19.88	-28.95	43.5	23.62	Peak	39.00	200	Horizontal	Pass
4	220.460	18.53	-26.12	46.0	27.47	Peak	76.00	100	Horizontal	Pass
5	311.688	27.59	-23.37	46.0	18.41	Peak	163.00	100	Horizontal	Pass
6	472.611	23.41	-19.34	46.0	22.59	Peak	36.00	100	Horizontal	Pass

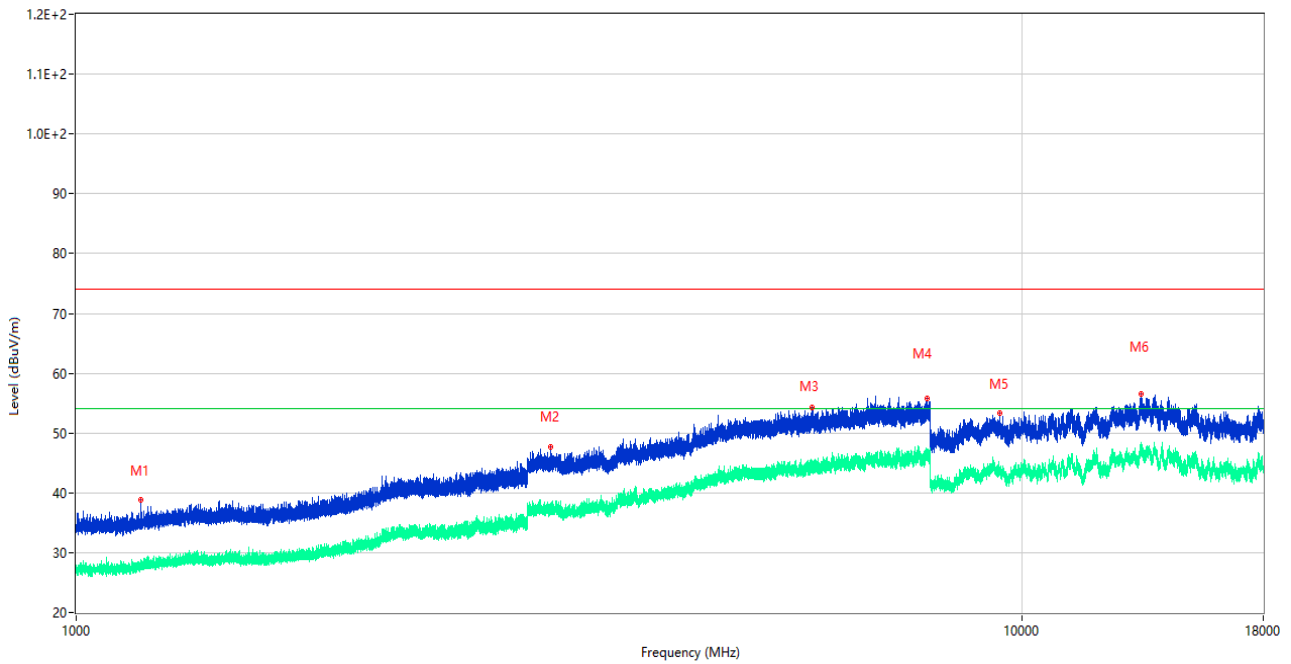
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.12.07	2023.12.06	<input checked="" 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 – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1431.800	38.90	-16.54	74.0	35.10	Peak	83.00	100	Vertical	Pass
1**	1431.800	28.49	-16.54	54.0	25.51	AV	83.00	100	Vertical	Pass
2	2422.500	43.30	-11.70	74.0	30.70	Peak	245.00	100	Vertical	Pass
2**	2422.500	33.40	-11.70	54.0	20.60	AV	245.00	100	Vertical	Pass
3	3765.000	48.43	-3.16	74.0	25.57	Peak	146.00	100	Vertical	Pass
3**	3765.000	38.27	-3.16	54.0	15.73	AV	146.00	100	Vertical	Pass
4	6525.500	54.96	1.32	74.0	19.04	Peak	108.00	100	Vertical	Pass
4**	6525.500	44.47	1.32	54.0	9.53	AV	108.00	100	Vertical	Pass
5	11278.500	55.16	2.14	74.0	18.84	Peak	1.00	100	Vertical	Pass
5**	11278.500	45.74	2.14	54.0	8.26	AV	1.00	100	Vertical	Pass
6	13639.999	56.30	5.05	74.0	17.70	Peak	241.00	100	Vertical	Pass
6**	13639.999	47.13	5.05	54.0	6.87	AV	241.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz –18 GHz



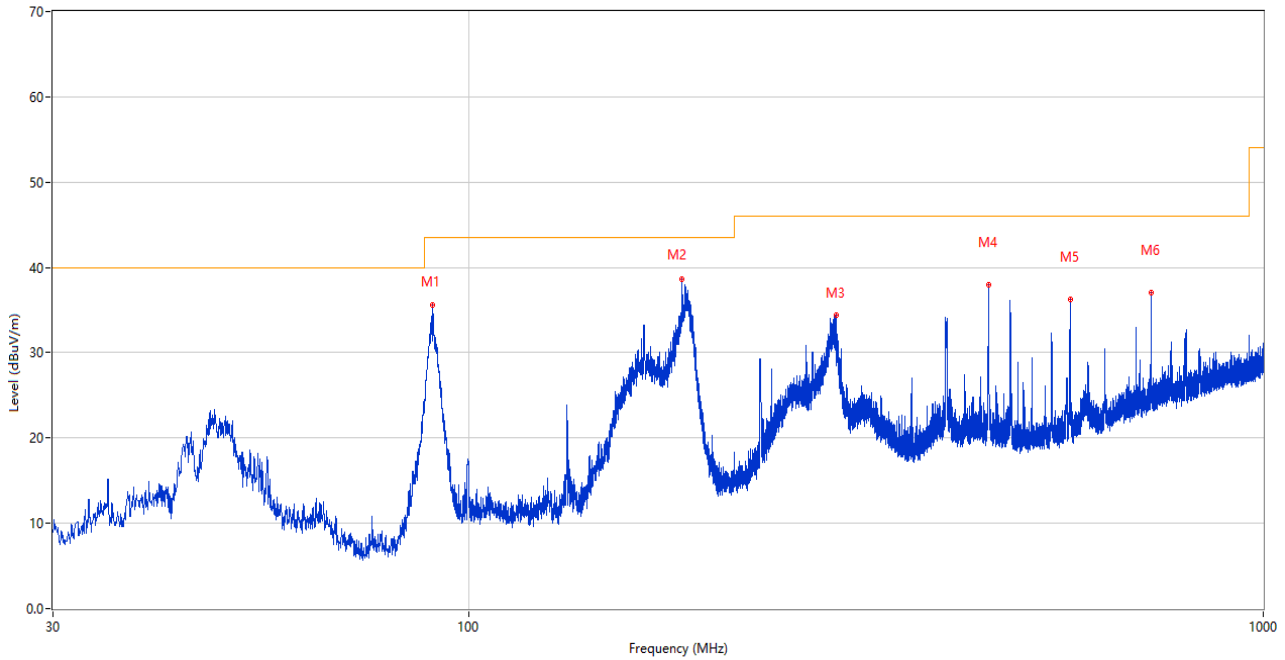
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1169.900	38.81	-17.35	74.0	35.19	Peak	62.00	100	Horizontal	Pass
1**	1169.900	27.19	-17.35	54.0	26.81	AV	62.00	100	Horizontal	Pass
2	3174.500	47.77	-5.30	74.0	26.23	Peak	252.00	100	Horizontal	Pass
2**	3174.500	37.47	-5.30	54.0	16.53	AV	252.00	100	Horizontal	Pass
3	5993.250	54.29	1.86	74.0	19.71	Peak	133.00	100	Horizontal	Pass
3**	5993.250	44.91	1.86	54.0	9.09	AV	133.00	100	Horizontal	Pass
4	7948.500	55.73	3.16	74.0	18.27	Peak	243.00	100	Horizontal	Pass
4**	7948.500	46.51	3.16	54.0	7.49	AV	243.00	100	Horizontal	Pass
5	9468.500	53.27	1.47	74.0	20.73	Peak	160.00	100	Horizontal	Pass
5**	9468.500	43.94	1.47	54.0	10.06	AV	160.00	100	Horizontal	Pass
6	13364.000	56.45	5.14	74.0	17.55	Peak	133.00	100	Horizontal	Pass
6**	13364.000	47.35	5.14	54.0	6.65	AV	133.00	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	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<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"/>

Sample No.	S01	Temperature	23.5°C
Humidity	44%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2023.09.28

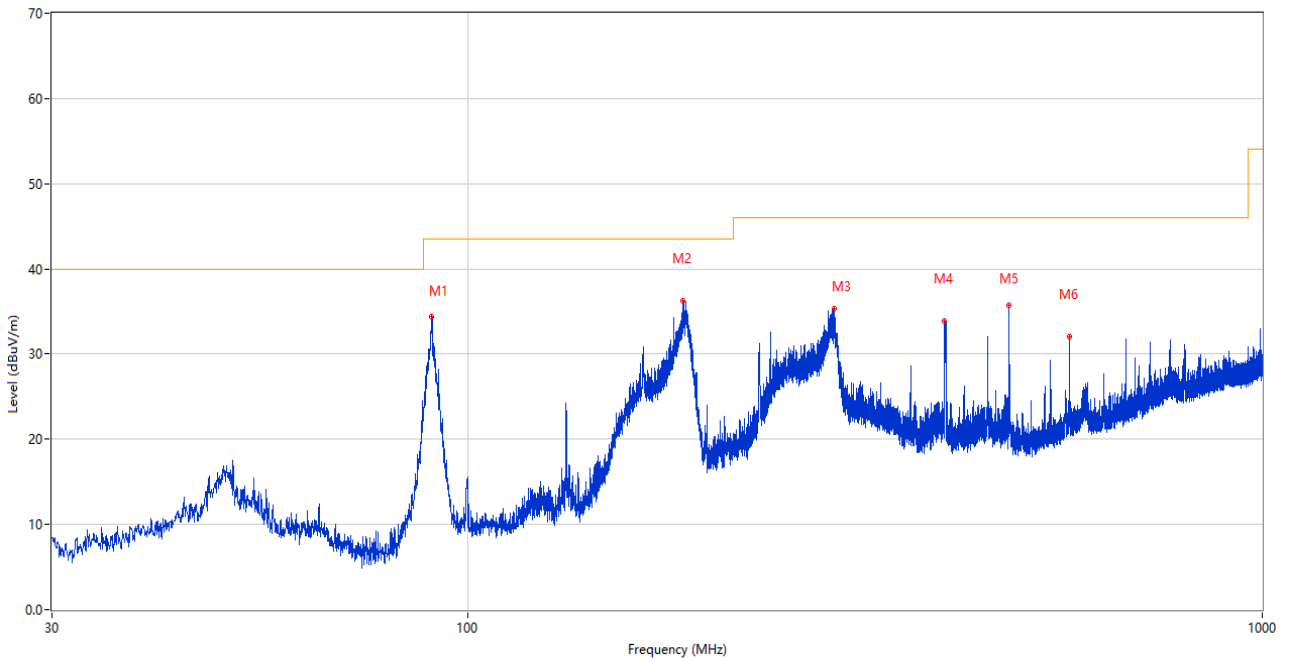
**Test Mode 4**

**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	90.091	35.65	-28.48	43.5	7.85	Peak	157.00	100	Vertical	Pass
2	185.540	38.65	-28.00	43.5	4.85	Peak	215.00	100	Vertical	Pass
3	289.815	34.36	-23.94	46.0	11.64	Peak	318.00	200	Vertical	Pass
4	451.368	37.96	-19.86	46.0	8.04	Peak	162.00	100	Vertical	Pass
5	571.745	36.23	-16.99	46.0	9.77	Peak	175.00	100	Vertical	Pass
6	722.143	37.04	-13.55	46.0	8.96	Peak	148.00	200	Vertical	Pass

6) Test Antenna Horizontal, 30 MHz – 1 GHz

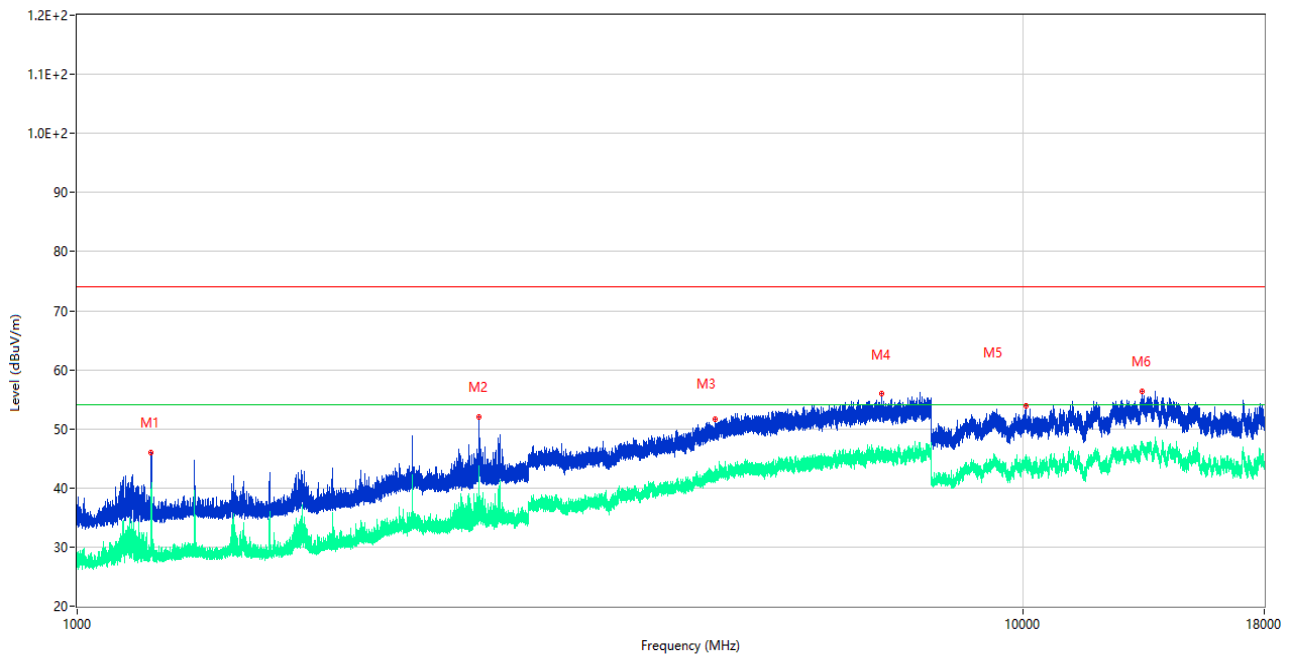


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	90.188	34.47	-28.46	43.5	9.03	Peak	53.00	200	Horizontal	Pass
2	186.704	36.24	-27.87	43.5	7.26	Peak	276.00	200	Horizontal	Pass
3	289.233	35.27	-23.93	46.0	10.73	Peak	103.00	100	Horizontal	Pass
4	398.600	33.87	-21.01	46.0	12.13	Peak	182.00	100	Horizontal	Pass
5	480.031	35.71	-19.19	46.0	10.29	Peak	49.00	200	Horizontal	Pass
6	571.842	32.02	-16.99	46.0	13.98	Peak	245.00	200	Horizontal	Pass



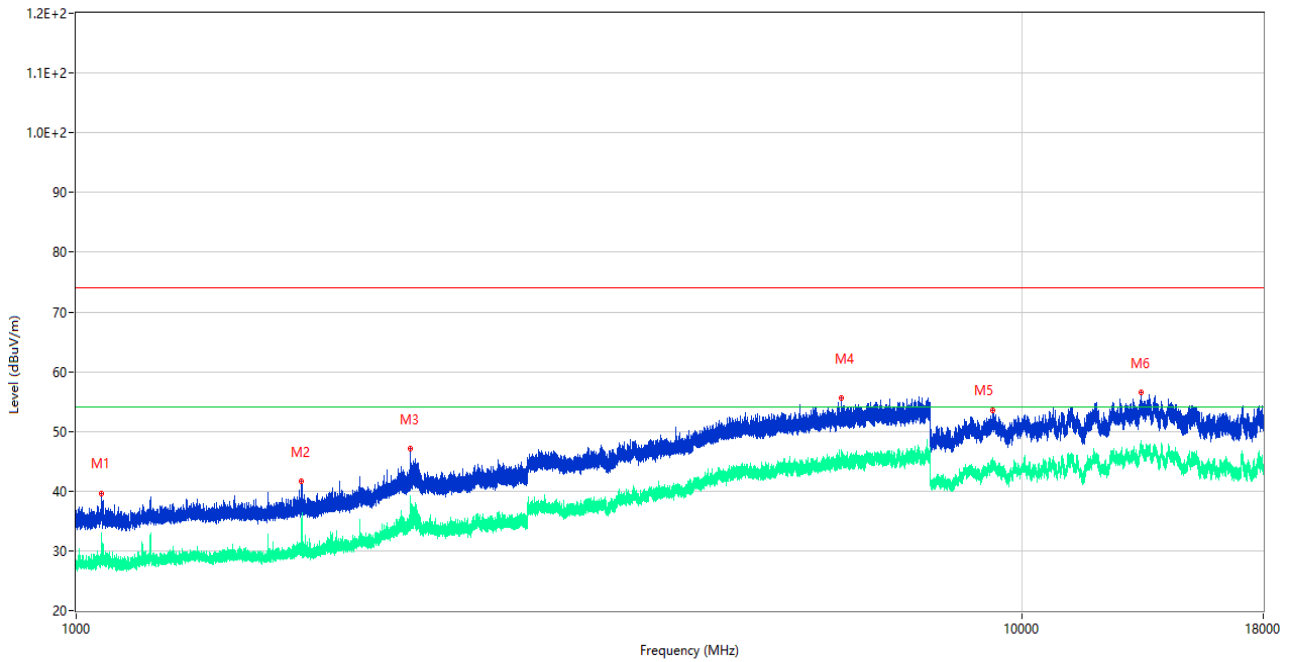
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.12.07	2023.12.06	<input checked="" 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"/>

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	1196.700	46.04	-17.41	74.0	27.96	Peak	241.00	100	Vertical	Pass
1**	1196.700	33.32	-17.41	54.0	20.68	AV	241.00	100	Vertical	Pass
2	2658.900	52.04	-9.18	74.0	21.96	Peak	167.00	100	Vertical	Pass
2**	2658.900	37.11	-9.18	54.0	16.89	AV	167.00	100	Vertical	Pass
3	4725.750	51.68	-0.84	74.0	22.32	Peak	226.00	100	Vertical	Pass
3**	4725.750	42.80	-0.84	54.0	11.20	AV	226.00	100	Vertical	Pass
4	7088.750	55.94	1.78	74.0	18.06	Peak	280.00	100	Vertical	Pass
4**	7088.750	45.25	1.78	54.0	8.75	AV	280.00	100	Vertical	Pass
5	10075.000	53.93	1.83	74.0	20.07	Peak	65.00	100	Vertical	Pass
5**	10075.000	44.91	1.83	54.0	9.09	AV	65.00	100	Vertical	Pass
6	13378.500	56.40	5.04	74.0	17.60	Peak	281.00	100	Vertical	Pass
6**	13378.500	46.46	5.04	54.0	7.54	AV	281.00	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	1063.200	39.66	-17.91	74.0	34.34	Peak	277.00	100	Horizontal	Pass
1**	1063.200	30.55	-17.91	54.0	23.45	AV	277.00	100	Horizontal	Pass
2	1731.700	41.60	-16.54	74.0	32.40	Peak	263.00	100	Horizontal	Pass
2**	1731.700	30.54	-16.54	54.0	23.46	AV	263.00	100	Horizontal	Pass
3	2258.600	47.07	-12.19	74.0	26.93	Peak	134.00	100	Horizontal	Pass
3**	2258.600	39.13	-12.19	54.0	14.87	AV	134.00	100	Horizontal	Pass
4	6445.250	55.52	2.18	74.0	18.48	Peak	6.00	100	Horizontal	Pass
4**	6445.250	44.65	2.18	54.0	9.35	AV	6.00	100	Horizontal	Pass
5	9324.500	53.45	2.17	74.0	20.55	Peak	322.00	100	Horizontal	Pass
5**	9324.500	44.71	2.17	54.0	9.29	AV	322.00	100	Horizontal	Pass
6	13371.500	56.46	5.09	74.0	17.54	Peak	55.00	100	Horizontal	Pass
6**	13371.500	47.12	5.09	54.0	6.88	AV	55.00	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	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<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"/>

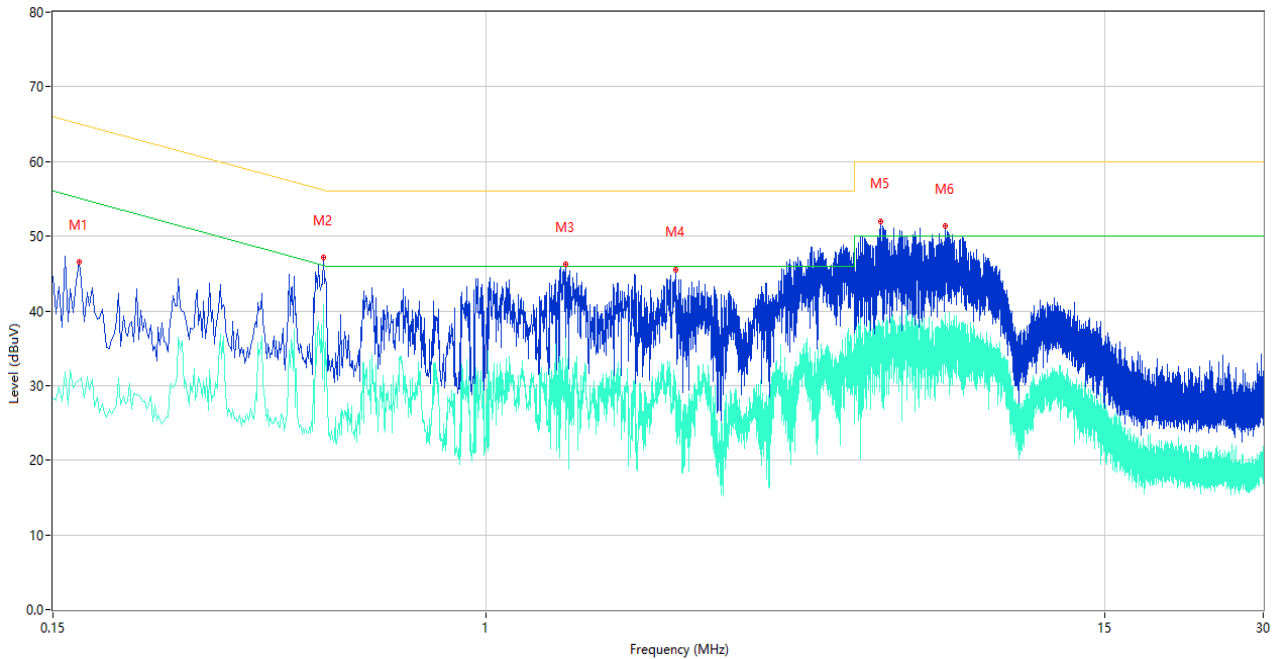
## A.2 Conducted Emission, AC Ports

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.	S01	Temperature	23.5°C
Humidity	44%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2023.10.10

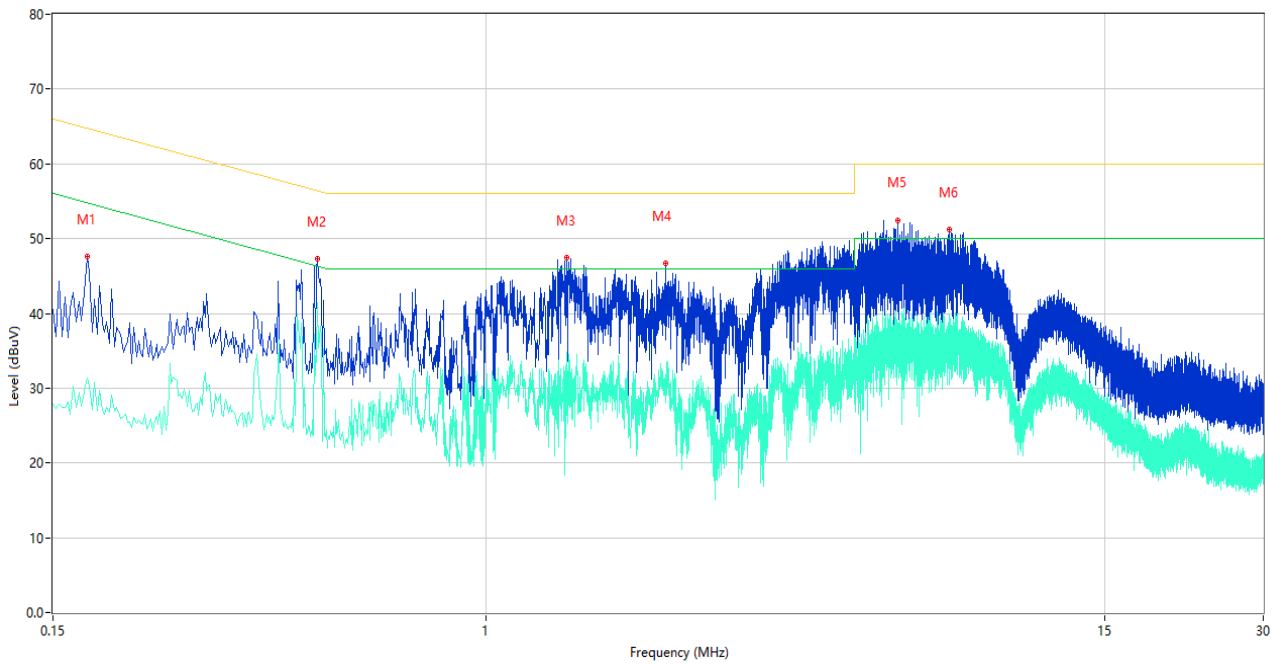
**Test Mode 3**

**1) AC Ports - L Phase**



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	46.48	9.82	65.06	18.58	Peak	L	Pass
1**	0.168	30.79	9.82	55.06	24.27	AV	L	Pass
2	0.490	47.14	10.11	56.17	9.03	Peak	L	Pass
2**	0.490	40.78	10.11	46.17	5.39	AV	L	Pass
3	1.414	46.20	10.46	56.00	9.80	Peak	L	Pass
3**	1.414	36.24	10.46	46.00	9.76	AV	L	Pass
4	2.292	45.55	10.29	56.00	10.45	Peak	L	Pass
4**	2.292	30.54	10.29	46.00	15.46	AV	L	Pass
5	5.612	52.04	10.25	60.00	7.96	Peak	L	Pass
5**	5.612	35.69	10.25	50.00	14.31	AV	L	Pass
6	7.474	51.30	10.32	60.00	8.70	Peak	L	Pass
6**	7.474	31.56	10.32	50.00	18.44	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.174	47.60	9.81	64.77	17.17	Peak	N	Pass
1**	0.174	31.30	9.81	54.77	23.47	AV	N	Pass
2	0.478	47.29	10.17	56.37	9.08	Peak	N	Pass
2**	0.478	41.39	10.17	46.37	4.98	AV	N	Pass
3	1.422	47.50	10.40	56.00	8.50	Peak	N	Pass
3**	1.422	26.42	10.40	46.00	19.58	AV	N	Pass
4	2.190	46.68	10.26	56.00	9.32	Peak	N	Pass
4**	2.190	31.73	10.26	46.00	14.27	AV	N	Pass
5	6.066	52.48	10.16	60.00	7.52	Peak	N	Pass
5**	6.066	38.66	10.16	50.00	11.34	AV	N	Pass
6	7.598	51.17	10.40	60.00	8.83	Peak	N	Pass
6**	7.598	35.78	10.40	50.00	14.22	AV	N	Pass

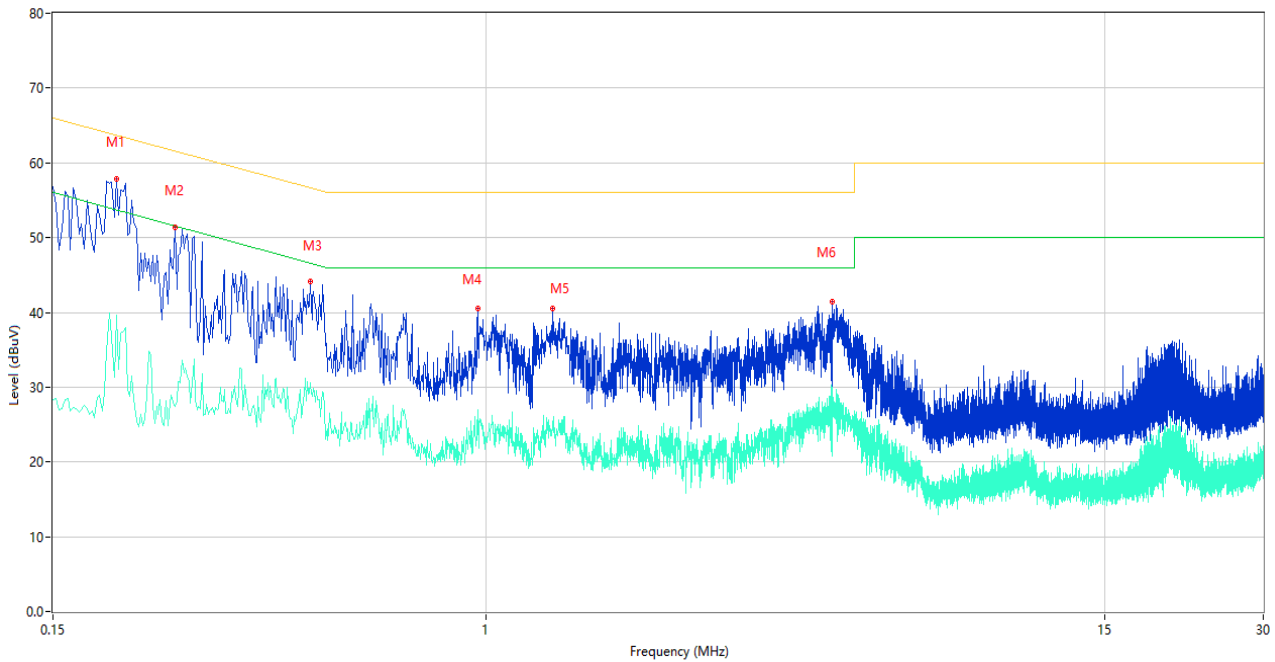
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2022.11.11	2023.11.10	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	<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"/>



Sample No.	S01	Temperature	23.5°C
Humidity	44%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2023.10.10

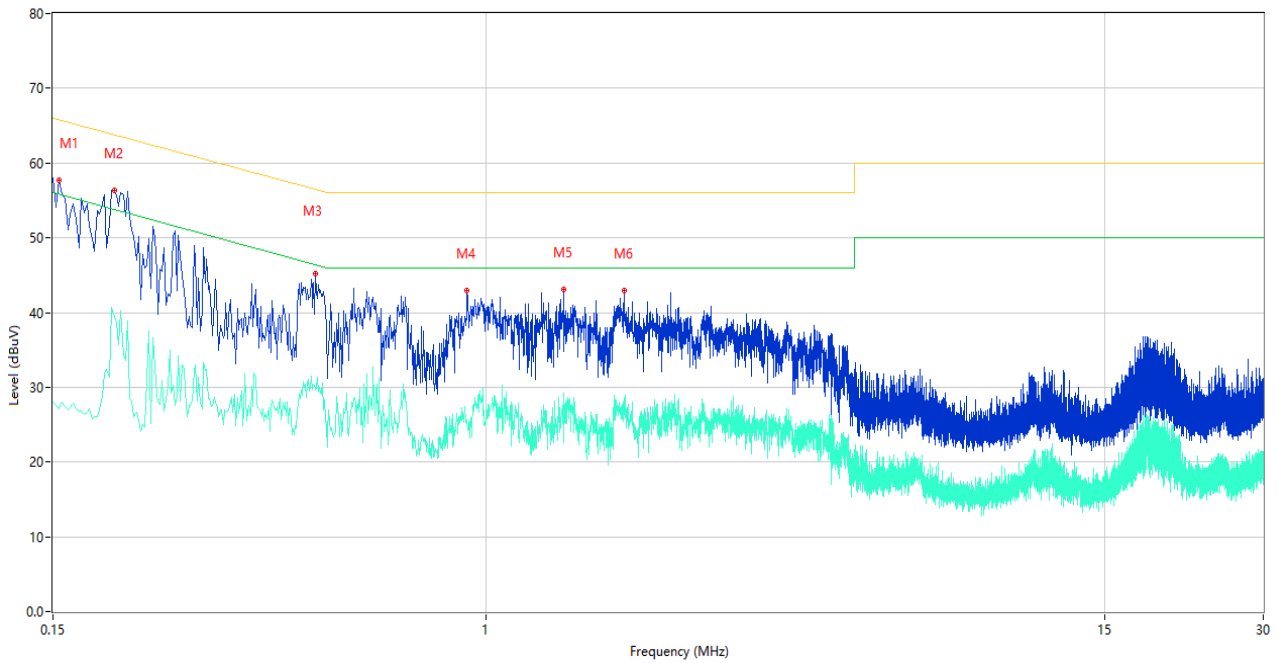
**Test Mode 4**

**3) AC Ports - L Phase**



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.198	57.88	9.78	63.69	5.81	Peak	L	Pass
1**	0.198	39.69	9.78	53.69	14.00	AV	L	Pass
2	0.256	51.32	9.79	61.56	10.24	Peak	L	Pass
2**	0.256	27.45	9.79	51.56	24.11	AV	L	Pass
3	0.462	44.17	10.25	56.66	12.49	Peak	L	Pass
3**	0.462	30.60	10.25	46.66	16.06	AV	L	Pass
4	0.962	40.50	10.55	56.00	15.50	Peak	L	Pass
4**	0.962	26.98	10.55	46.00	19.02	AV	L	Pass
5	1.334	40.50	10.21	56.00	15.50	Peak	L	Pass
5**	1.334	24.83	10.21	46.00	21.17	AV	L	Pass
6	4.556	41.45	10.07	56.00	14.55	Peak	L	Pass
6**	4.556	30.03	10.07	46.00	15.97	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	57.75	9.84	67.59	9.84	Peak	N	Pass
1**	0.154	27.13	9.84	57.59	28.65	AV	N	Pass
2	0.196	56.38	9.78	66.16	9.78	Peak	N	Pass
2**	0.196	39.44	9.78	56.16	14.34	AV	N	Pass
3	0.474	45.18	10.19	55.37	10.19	Peak	N	Pass
3**	0.474	29.65	10.19	45.37	16.79	AV	N	Pass
4	0.920	42.95	10.15	53.10	10.15	Peak	N	Pass
4**	0.920	25.57	10.15	43.10	17.53	AV	N	Pass
5	1.404	43.13	10.53	53.66	10.53	Peak	N	Pass
5**	1.404	29.30	10.53	43.66	14.36	AV	N	Pass
6	1.826	42.95	9.98	52.93	9.98	Peak	N	Pass
6**	1.826	28.66	9.98	42.93	14.27	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	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2022.11.11	2023.11.10	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	<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-SZ2391126-AE-1.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2391126-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2391126-AI.PDF”.

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--END OF REPORT--