

TEST REPORT

Applicant: Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address: No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China
Equipment Type: Mobile Phone
Model Name: RMX3963
Brand Name: realme
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 25, 2025
Test Date: Feb. 27, 2025 - Mar. 03, 2025
Date of Issue: Apr. 07, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li JunFeng

Checked by: Liu Zhenxiang

Approved by: Tolan Tu
(Testing Director)

Li JunFeng

Liu zhen xiang

Tolan Tu

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 07, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Ancillary Equipment	5
2.5	Technical Information	6
3	SUMMARY OF TEST RESULTS	7
3.1	Test Standards	7
3.2	Verdict	7
3.3	Test Uncertainty	7
4	GENERAL TEST CONFIGURATIONS	8
4.1	Test Enclosure List	8
4.2	Test Configurations	8
4.3	Test Setups	10
5	TEST ITEMS	12
5.1	Emission Tests	12
ANNEX A	TEST RESULTS	17
A.1	Radiated Emission	17
A.2	Conducted Emission, AC Ports	30
ANNEX B	TEST SETUP PHOTOS	35
ANNEX C	EUT EXTERNAL PHOTOS	35

ANNEX D EUT INTERNAL PHOTOS 35

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	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 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	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3963
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 6.0
Dimensions (Approx.)	about 165.70x76.22x7.94(mm)
Weight (Approx.)	about 197g
EUT ID	S02, S06
IMEI Number	S02: IMEI1: 861049070020792; IMEI2: 861049070020784
	S06: IMEI1: 861049070024075; IMEI2: 861049070024067

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLPB61
	Serial No.	N/A
	Capacitance	Rated: 5660mAh/22.19Wh Typical: 5828mAh/22.85Wh
	Rated Voltage	3.92 V
	Limited Voltage	4.53 V
	Manufacturer	Sunwoda Electronic CO.LTD.
Ancillary Equipment 2	Power Supply Unit 1	
	Brand Name	N/A
	Model No.	VCB4JAUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 1.5A

	Rated Output	5VDC, 2A or 5-11VDC, 4.1A MAX, 45W MAX
	Manufacturer	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD
Ancillary Equipment 3	Power Supply Unit 2	
	Brand Name	N/A
	Model No.	VCB4JAUH (US Plug)
	Serial No.	N/A
	Rated Input	100-240VAC, 50/60Hz, 1.5A
	Rated Output	5VDC, 2A or 5-11VDC, 4.1A MAX, 45W MAX
	Manufacturer	Jiangsu ChenYang Electronics Co., Ltd.
Ancillary Equipment 4	USB Cable 1	
	Model No.	DL154
	Length (Approx.)	1.0 m
Note 1: Letter in () means plug type. Note 2: All adapters are tested, only the worst data of VCB4JAUH (US Plug) (HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD) shown in this report.		

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C, CA_4A-7A 5G Network SA: NR n5/n7/n38/n41/n66 NSA(EN-DC): DC_66A_n5A, DC_7A_n5A, DC_2A_n7A, DC_4A_n7A, DC_5A_n7A, DC_66A_n7A, DC_4A_n38A, DC_5A_n38A, DC_66A_n38A, DC_4A_n41A, DC_26A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_12A_n66A Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, NFC
Classification of equipment	Class B

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	ThinkPad E495	N/A	N/A	N/A	☒
Data connector	UGREEN	40702	N/A	N/A	N/A	☒
USB disk	Sandisk	DTMC3G2	N/A	N/A	64G	☒
Type-C Headset	N/A	MH156	N/A	1.12m	N/A	☒
TF Card	SAMSUNG	MB-MD256KA	N/A	N/A	256G	☒

4.2 Test Configurations

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

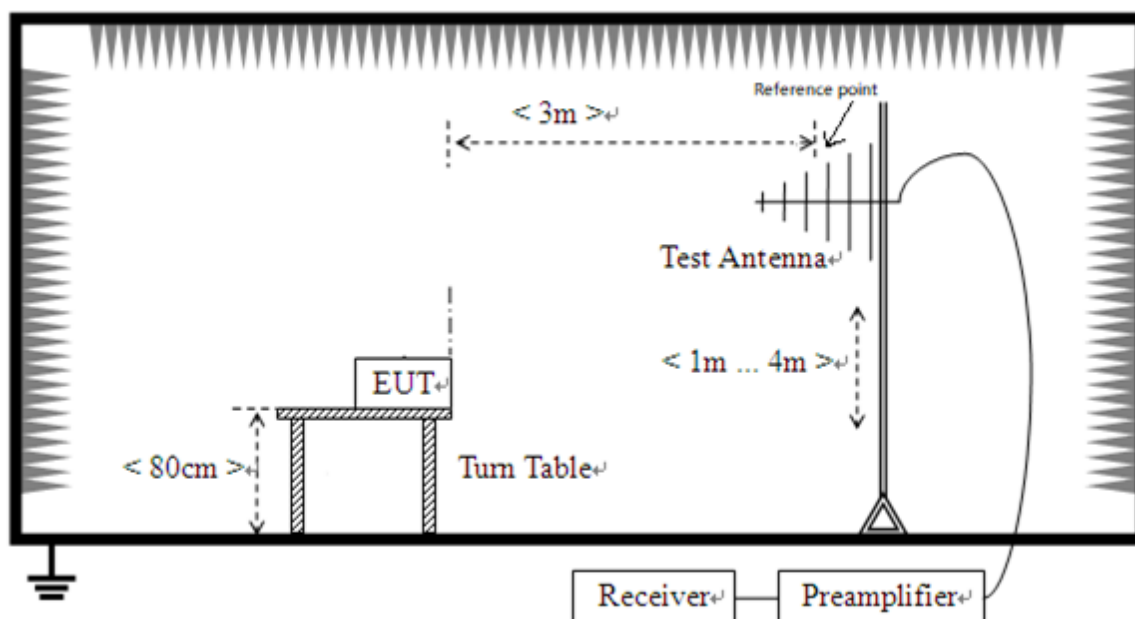
Test Mode Configuration	Description
Mode 1	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 2	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 3	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 4	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card
Mode 5	<u>The GSM850 RX Test Mode</u> GSM850 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 6	<u>The WCDMA Band5 RX Test Mode</u> WCDMA Band5 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 7	<u>The LTE Band5 RX Test Mode</u> LTE Band5 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 8	<u>The LTE Band12 RX Test Mode</u> LTE Band12 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 9	<u>The LTE Band13 RX Test Mode</u> LTE Band13 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 10	<u>The LTE Band17 RX Test Mode</u> LTE Band17 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 11	<u>The LTE Band26 RX Test Mode</u> LTE Band26 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 12	<u>The N5 RX Test Mode</u> N5 RX + EUT + Adapter + USB Cable + Battery + TF Card
Mode 13	<u>The USB Test Mode</u>

	EUT + USB Cable + Battery + Laptop + TF Card
Mode 14	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk + TF Card
Mode 15	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery + TF Card

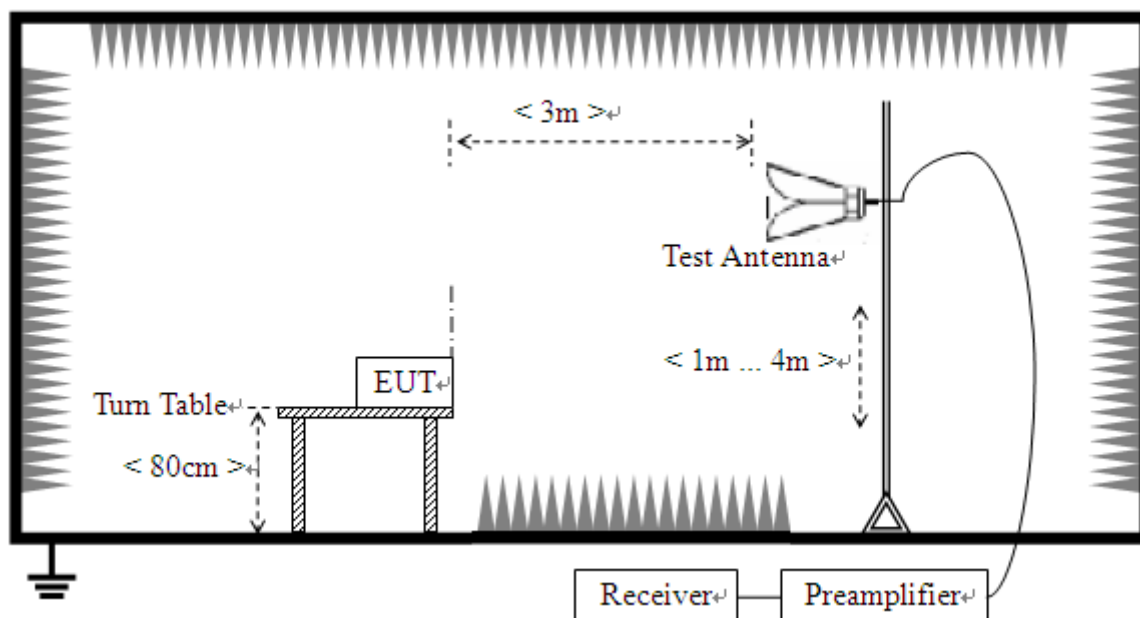
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 15	3, 13
Conducted Emission, AC Ports	Mode 1~Mode 13	2, 13
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

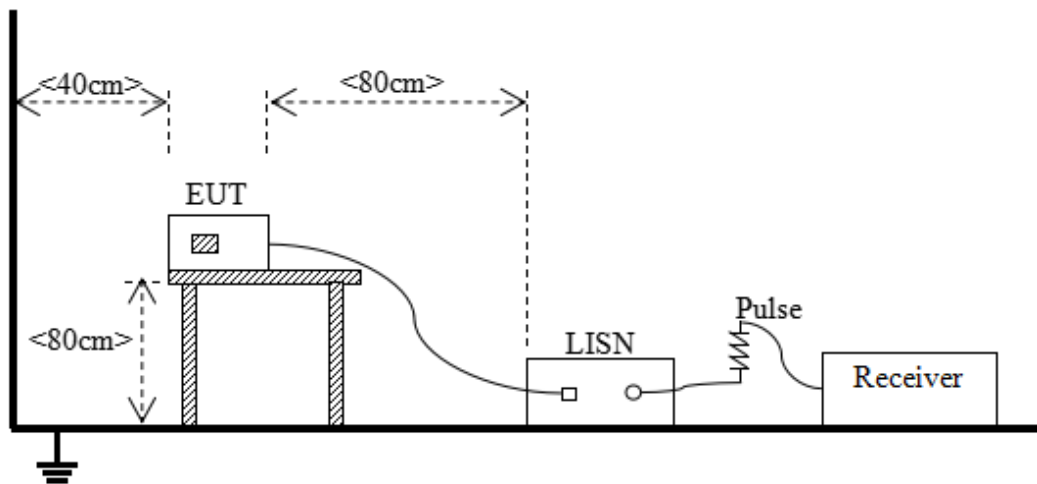
Test Setup 1



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 $\mu\text{V/m}$) = $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$.
- 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:

$$L_{3m} = L_{10m} + 20 \times \log(d_{10m}/d_{3m})$$
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: $L_{3m} = 49.5 + 20 \times \log(10/3) = 60$ (dB $\mu\text{V/m}$).

Highest internal frequency (F_X)	Highest measurement frequency (F_M)
$F_X \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} \leq F_X \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} \leq F_X \leq 1 \text{ GHz}$	5 GHz
$F_X \geq 1 \text{ GHz}$	$5 * F_X$ 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° to 360° , 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 $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

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

Trace = max hold

5.1.1.4 Test Result and Test Equipment List

Please refer to ANNEX A.1.

NOTE:

1. Results (dB μ V/m) = Reading (dB μ 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 μ V)	Average (dB μ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB μ V)	Average (dB μ 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 Ω /50 μ 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 μ V) = Reading (dB μ 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.

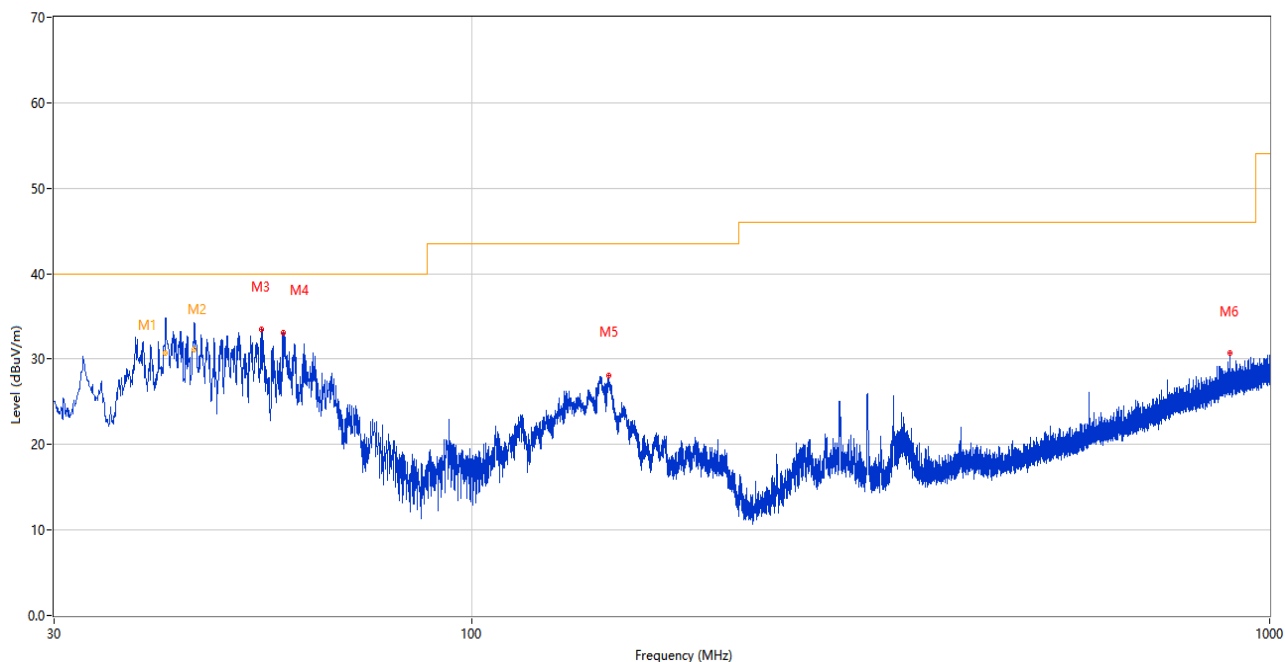
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S06	Temperature	21.2℃
Humidity	55%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.03.03

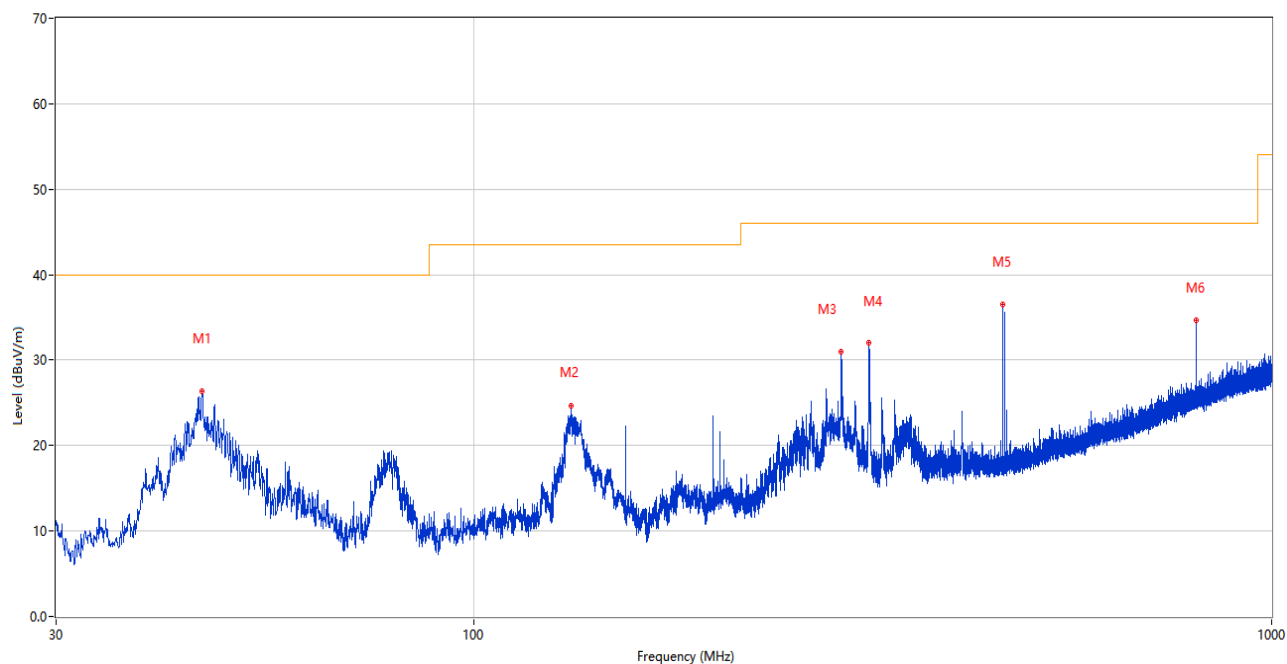
Test Mode 3

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	41.385	34.89	-26.53	40.0	5.11	Peak	45.00	111	Vertical	N/A
1*	41.385	30.75	-26.53	40.0	9.25	QP	45.00	111	Vertical	Pass
2	44.910	35.79	-26.11	40.0	4.21	Peak	5.00	101	Vertical	N/A
2*	44.910	31.11	-26.11	40.0	8.89	QP	5.00	101	Vertical	Pass
3	54.638	33.45	-26.79	40.0	6.55	Peak	121.00	100	Vertical	Pass
4	58.178	33.02	-26.63	40.0	6.98	Peak	124.00	100	Vertical	Pass
5	148.631	28.10	-30.14	43.5	15.40	Peak	334.00	100	Vertical	Pass
6	891.020	30.66	-10.00	46.0	15.34	Peak	74.00	100	Vertical	Pass

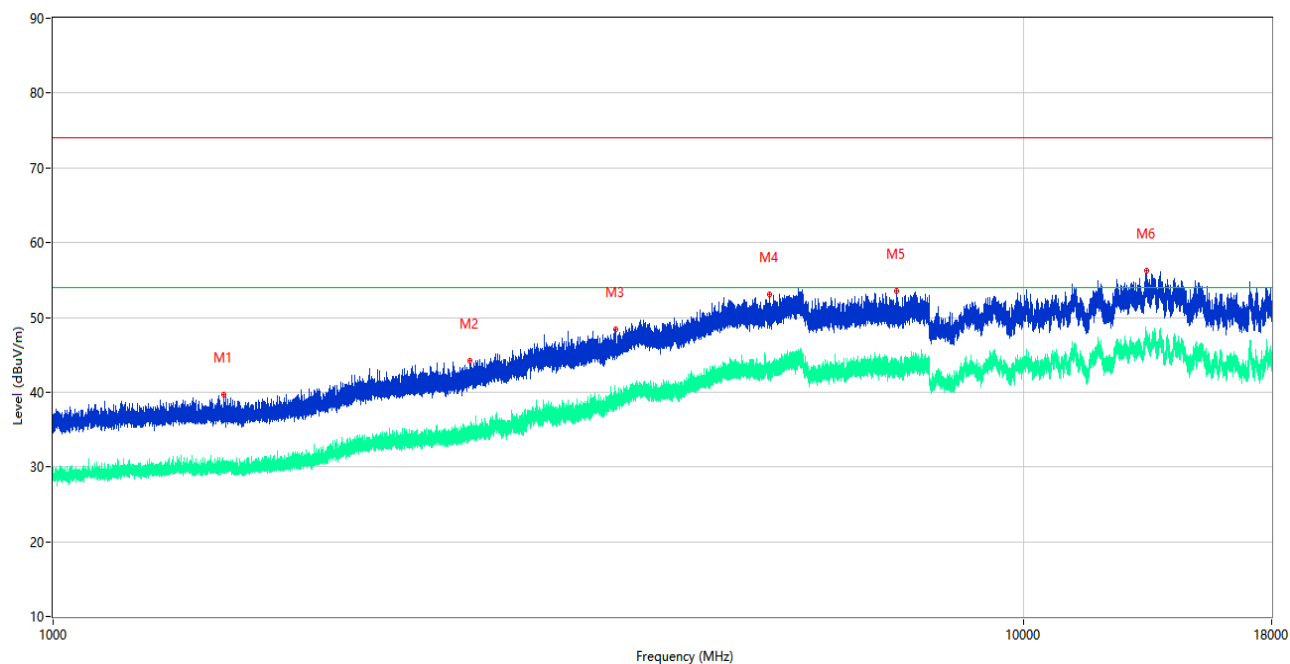
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.714	26.38	-26.03	40.0	13.62	Peak	36.00	100	Horizontal	Pass
2	132.674	24.65	-29.98	43.5	18.85	Peak	130.00	200	Horizontal	Pass
3	289.039	30.98	-23.77	46.0	15.02	Peak	49.00	100	Horizontal	Pass
4	313.191	32.01	-23.31	46.0	13.99	Peak	45.00	100	Horizontal	Pass
5	460.631	36.57	-19.67	46.0	9.43	Peak	319.00	100	Horizontal	Pass
6	803.721	34.67	-11.77	46.0	11.33	Peak	141.00	100	Horizontal	Pass

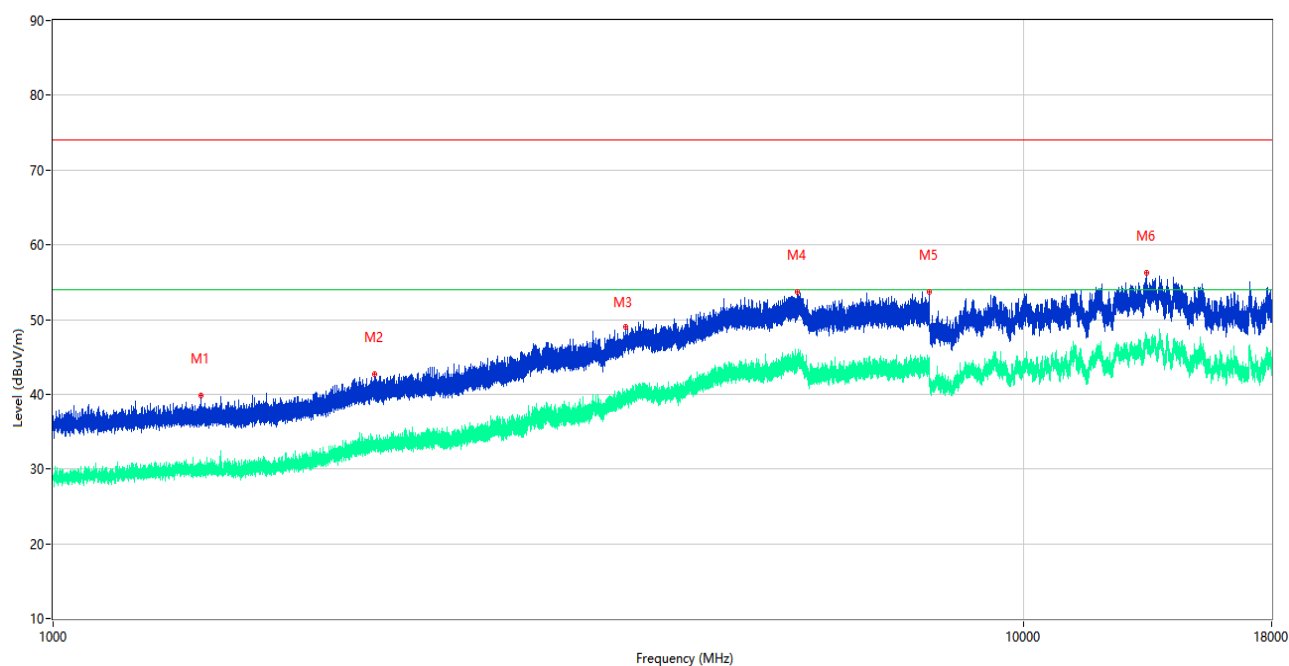
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

3) Test Antenna Vertical, 1 GHz – 18 GHz



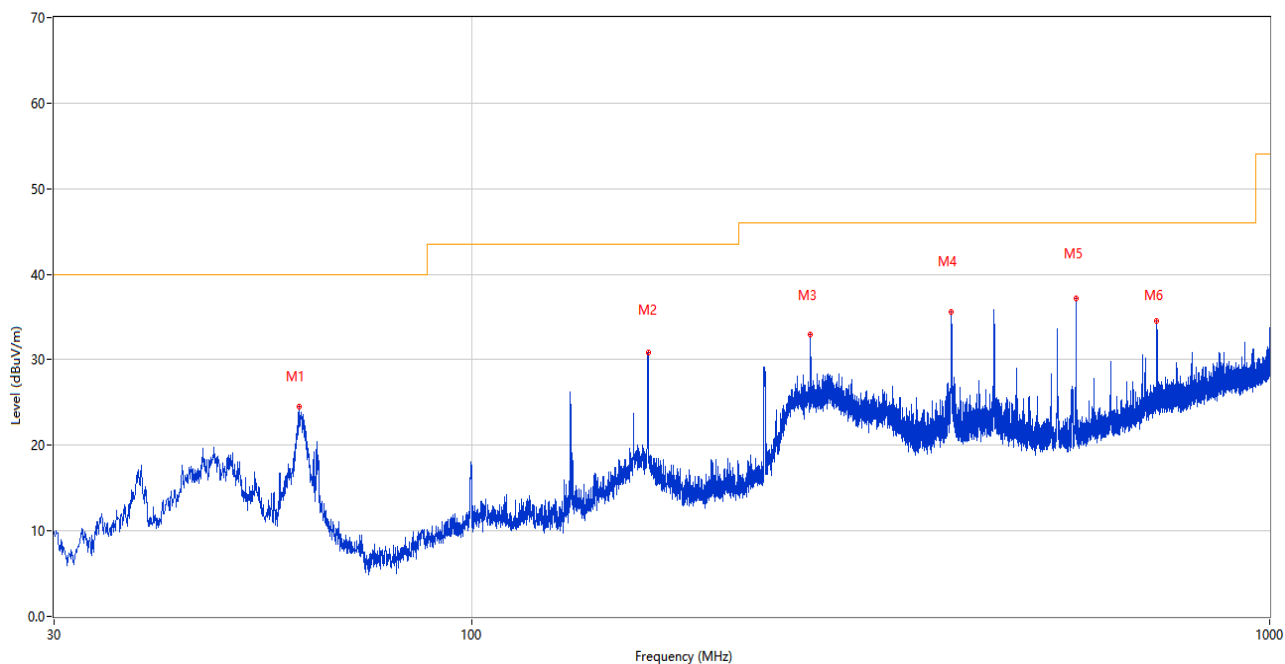
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.460	39.63	-15.52	74.0	34.37	Peak	188.00	100	Vertical	Pass
1**	1499.460	29.93	-15.52	54.0	24.07	AV	188.00	100	Vertical	Pass
2	2690.520	44.18	-8.93	74.0	29.82	Peak	48.00	100	Vertical	Pass
2**	2690.520	35.48	-8.93	54.0	18.52	AV	48.00	100	Vertical	Pass
3	3798.660	48.38	-3.33	74.0	25.62	Peak	34.00	100	Vertical	Pass
3**	3798.660	38.00	-3.33	54.0	16.00	AV	34.00	100	Vertical	Pass
4	5473.300	53.09	0.19	74.0	20.91	Peak	112.00	100	Vertical	Pass
4**	5473.300	43.72	0.19	54.0	10.28	AV	112.00	100	Vertical	Pass
5	7391.700	53.51	0.10	74.0	20.49	Peak	13.00	100	Vertical	Pass
5**	7391.700	44.03	0.10	54.0	9.97	AV	13.00	100	Vertical	Pass
6	13378.000	56.20	5.05	74.0	17.80	Peak	0.00	100	Vertical	Pass
6**	13378.000	47.53	5.05	54.0	6.47	AV	0.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz



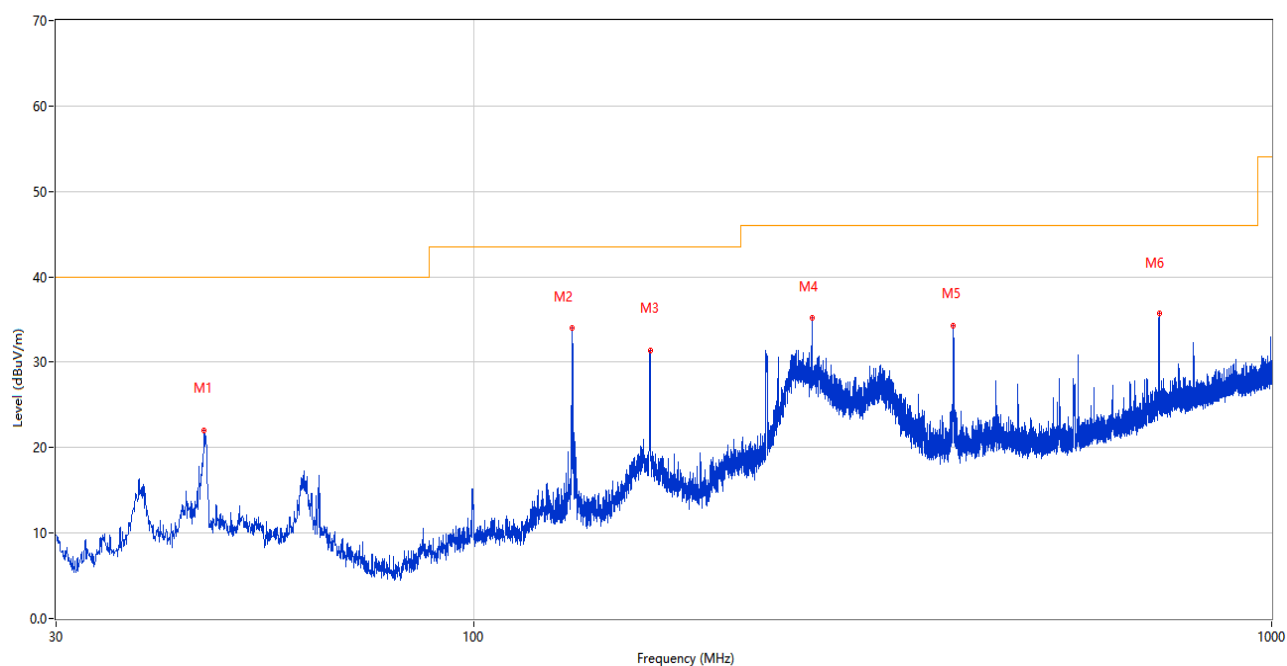
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1420.290	39.80	-15.62	74.0	34.20	Peak	347.00	100	Horizontal	Pass
1**	1420.290	30.09	-15.62	54.0	23.91	AV	347.00	100	Horizontal	Pass
2	2141.530	42.70	-12.54	74.0	31.30	Peak	130.00	100	Horizontal	Pass
2**	2141.530	33.73	-12.54	54.0	20.27	AV	130.00	100	Horizontal	Pass
3	3890.840	49.08	-2.49	74.0	24.92	Peak	248.00	100	Horizontal	Pass
3**	3890.840	39.08	-2.49	54.0	14.92	AV	248.00	100	Horizontal	Pass
4	5842.900	53.65	2.21	74.0	20.35	Peak	325.00	100	Horizontal	Pass
4**	5842.900	43.85	2.21	54.0	10.15	AV	325.00	100	Horizontal	Pass
5	7986.140	53.70	0.57	74.0	20.30	Peak	13.00	100	Horizontal	Pass
5**	7986.140	43.43	0.57	54.0	10.57	AV	13.00	100	Horizontal	Pass
6	13394.000	56.19	4.94	74.0	17.81	Peak	177.00	100	Horizontal	Pass
6**	13394.000	46.75	4.94	54.0	7.25	AV	177.00	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	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2024.11.28	2025.11.27	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2024.11.28	2025.11.27	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

Test Mode 13**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	60.797	24.58	-26.52	40.0	15.42	Peak	246.00	100	Vertical	Pass
2	166.624	30.86	-29.04	43.5	12.64	Peak	282.00	100	Vertical	Pass
3	265.856	32.91	-24.74	46.0	13.09	Peak	330.00	200	Vertical	Pass
4	398.649	35.55	-21.08	46.0	10.45	Peak	194.00	100	Vertical	Pass
5	572.084	37.19	-16.91	46.0	8.81	Peak	139.00	200	Vertical	Pass
6	722.386	34.53	-13.50	46.0	11.47	Peak	120.00	200	Vertical	Pass

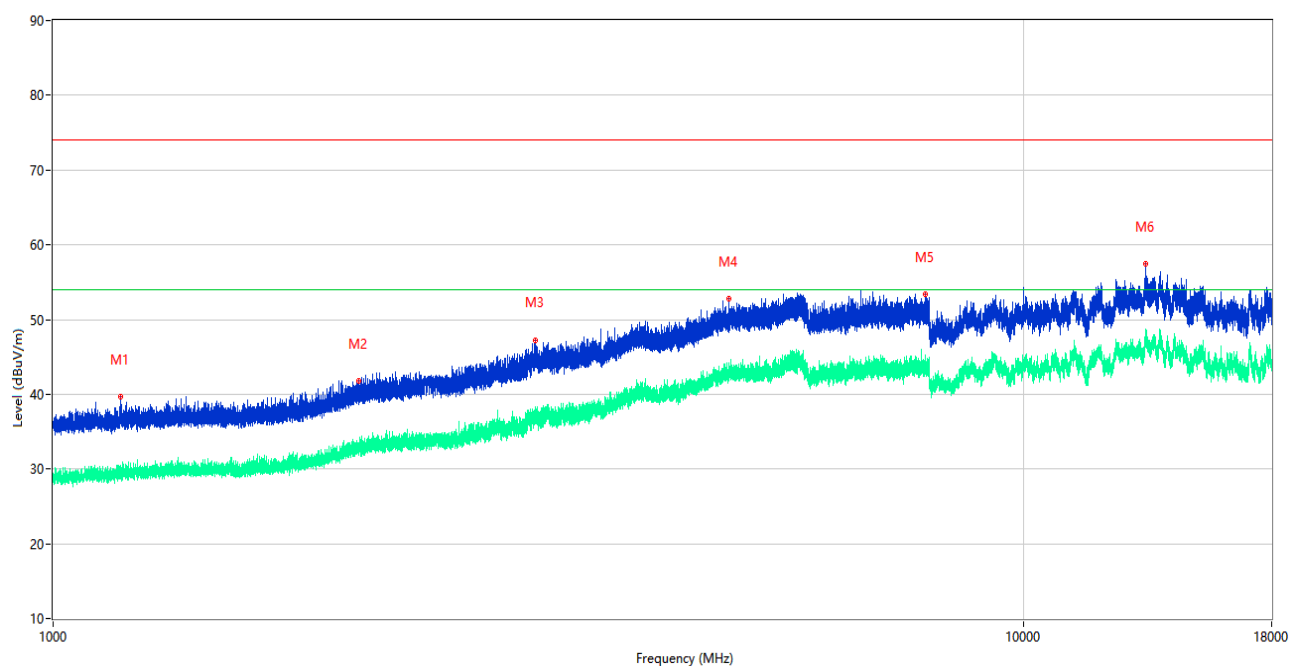
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.005	21.98	-26.09	40.0	18.02	Peak	45.00	200	Horizontal	Pass
2	133.062	34.01	-29.97	43.5	9.49	Peak	226.00	200	Horizontal	Pass
3	166.576	31.39	-29.04	43.5	12.11	Peak	97.00	200	Horizontal	Pass
4	265.953	35.22	-24.75	46.0	10.78	Peak	295.00	100	Horizontal	Pass
5	398.649	34.31	-21.08	46.0	11.69	Peak	184.00	100	Horizontal	Pass
6	722.823	35.73	-13.52	46.0	10.27	Peak	228.00	100	Horizontal	Pass

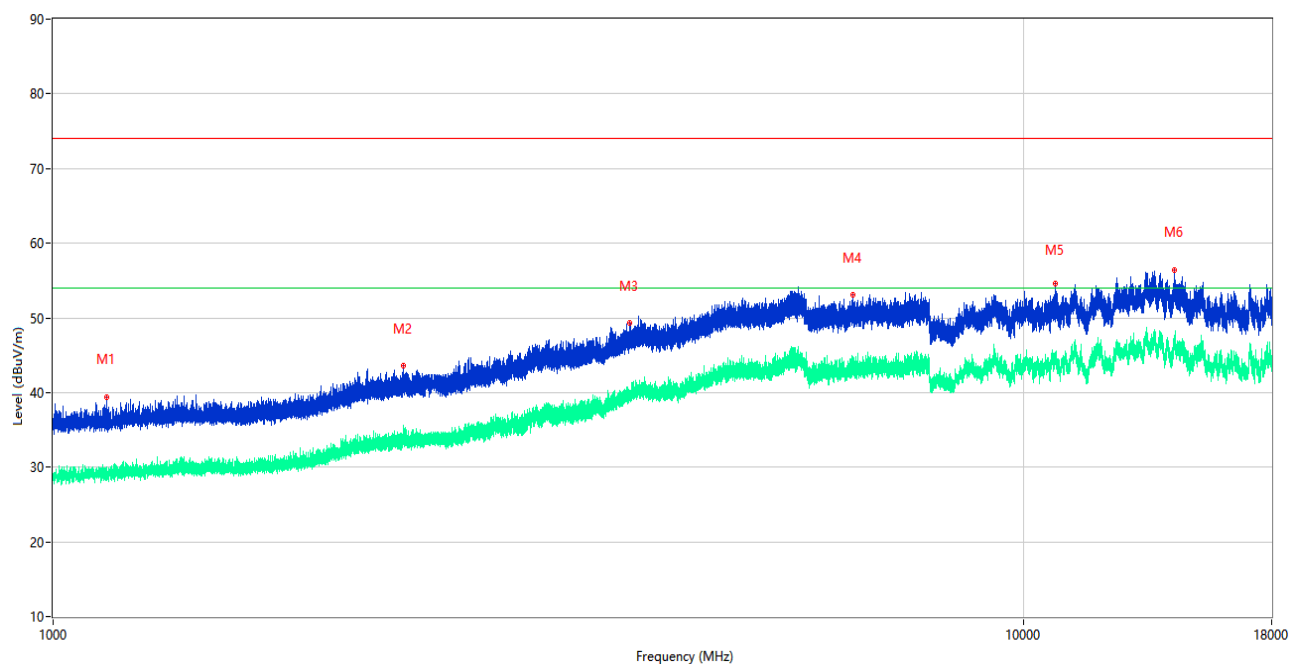
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

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	1172.250	39.72	-15.79	74.0	34.28	Peak	52.00	100	Vertical	Pass
1**	1172.250	29.51	-15.79	54.0	24.49	AV	52.00	100	Vertical	Pass
2	2066.780	41.82	-12.23	74.0	32.18	Peak	171.00	100	Vertical	Pass
2**	2066.780	32.58	-12.23	54.0	21.42	AV	171.00	100	Vertical	Pass
3	3142.010	47.29	-6.24	74.0	26.71	Peak	282.00	100	Vertical	Pass
3**	3142.010	37.08	-6.24	54.0	16.92	AV	282.00	100	Vertical	Pass
4	4967.740	52.77	0.34	74.0	21.23	Peak	271.00	100	Vertical	Pass
4**	4967.740	42.41	0.34	54.0	11.59	AV	271.00	100	Vertical	Pass
5	7913.320	53.41	0.79	74.0	20.59	Peak	117.00	100	Vertical	Pass
5**	7913.320	43.84	0.79	54.0	10.16	AV	117.00	100	Vertical	Pass
6	13363.000	57.48	5.15	74.0	16.52	Peak	363.00	100	Vertical	Pass
6**	13363.000	46.91	5.15	54.0	7.09	AV	363.00	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	1136.370	39.38	-15.79	74.0	34.62	Peak	324.00	100	Horizontal	Pass
1**	1136.370	30.08	-15.79	54.0	23.92	AV	324.00	100	Horizontal	Pass
2	2296.360	43.53	-11.79	74.0	30.47	Peak	163.00	100	Horizontal	Pass
2**	2296.360	33.02	-11.79	54.0	20.98	AV	163.00	100	Horizontal	Pass
3	3927.580	49.28	-1.69	74.0	24.72	Peak	38.00	100	Horizontal	Pass
3**	3927.580	39.25	-1.69	54.0	14.75	AV	38.00	100	Horizontal	Pass
4	6671.860	53.02	-0.76	74.0	20.98	Peak	270.00	100	Horizontal	Pass
4**	6671.860	43.20	-0.76	54.0	10.80	AV	270.00	100	Horizontal	Pass
5	10786.500	54.55	1.75	74.0	19.45	Peak	184.00	100	Horizontal	Pass
5**	10786.500	45.05	1.75	54.0	8.95	AV	184.00	100	Horizontal	Pass
6	14294.500	56.47	4.97	74.0	17.53	Peak	77.00	100	Horizontal	Pass
6**	14294.500	46.13	4.97	54.0	7.87	AV	77.00	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	☒
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2024.11.28	2025.11.27	☒
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2024.11.28	2025.11.27	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Anechoic Chamber (#2)	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

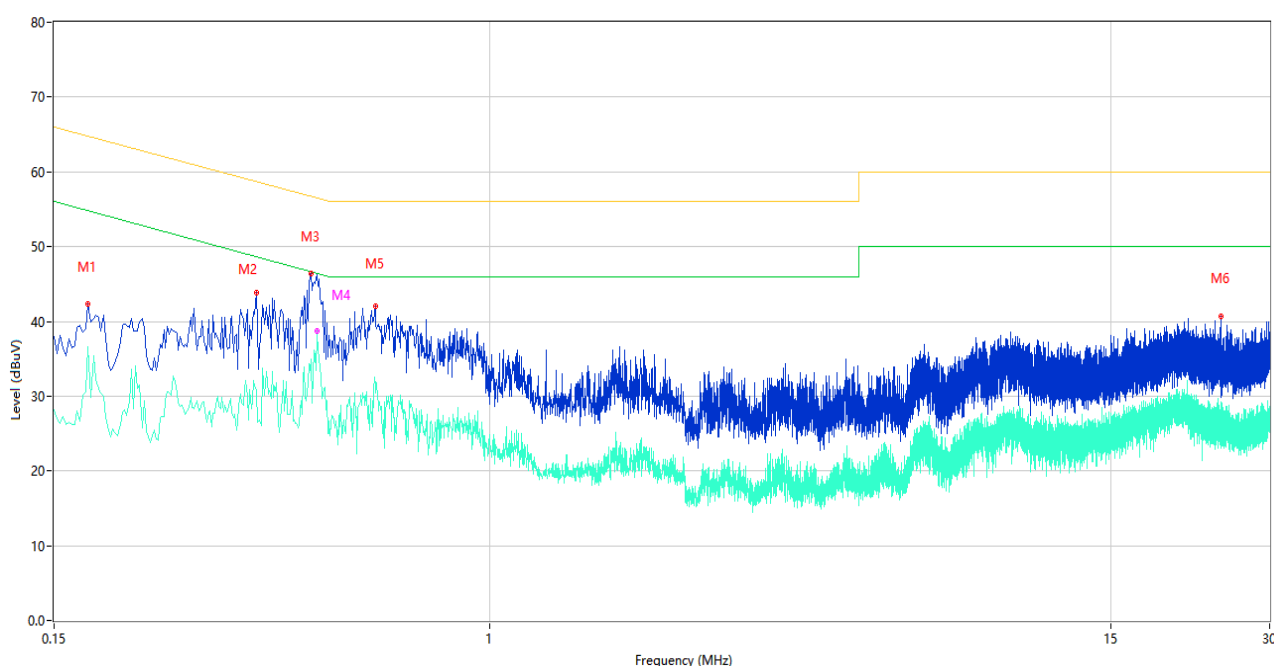
A.2 Conducted Emission, AC Ports

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 (120 VAC, 60 Hz) shown here.

Sample No.	S06	Temperature	23.9℃
Humidity	54%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2025.02.27

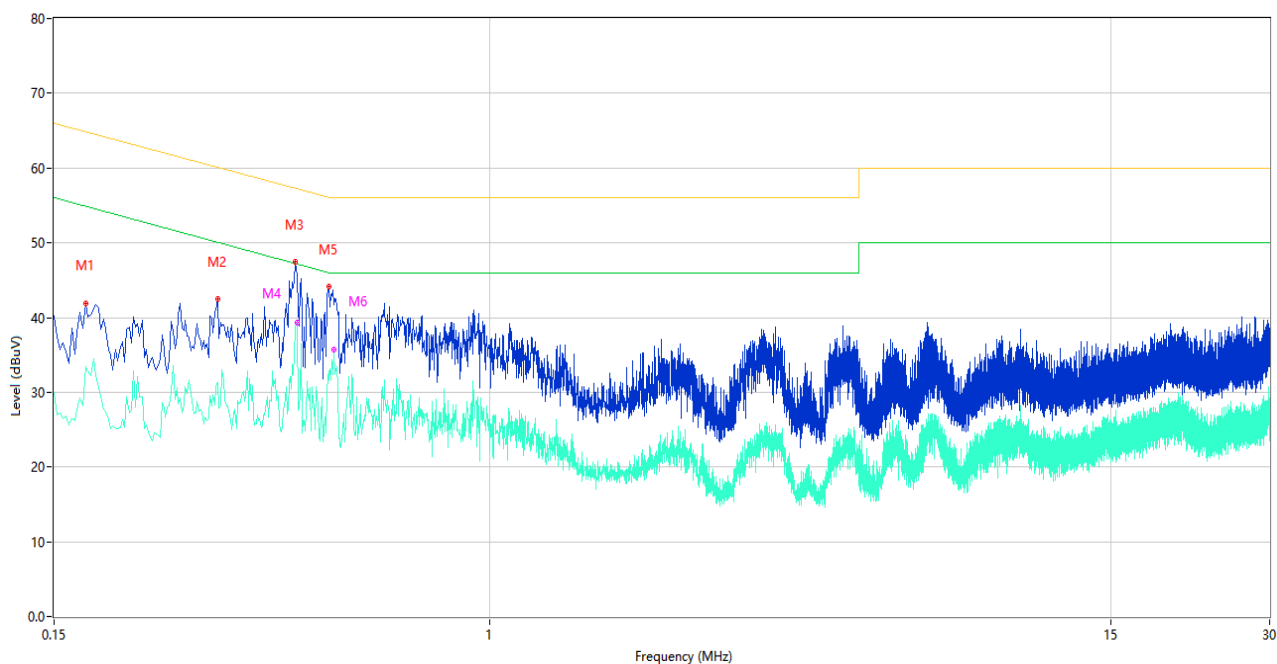
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.174	42.31	10.06	64.77	22.46	Peak	L	Pass
1**	0.174	36.65	10.06	54.77	18.12	AV	L	Pass
2	0.362	43.82	10.11	58.68	14.86	Peak	L	Pass
2**	0.362	30.75	10.11	48.68	17.93	AV	L	Pass
3	0.460	46.42	10.50	56.69	10.27	Peak	L	Pass
3**	0.460	35.01	10.50	46.69	11.68	AV	L	Pass
4	0.472	46.29	10.44	56.48	10.19	Peak	L	Pass
4**	0.472	38.78	10.44	46.48	7.70	AV	L	Pass
5	0.608	42.08	10.60	56.00	13.92	Peak	L	Pass
5**	0.608	31.43	10.60	46.00	14.57	AV	L	Pass
6	24.254	40.75	15.86	60.00	19.25	Peak	L	Pass
6**	24.254	28.78	15.86	50.00	21.22	AV	L	Pass

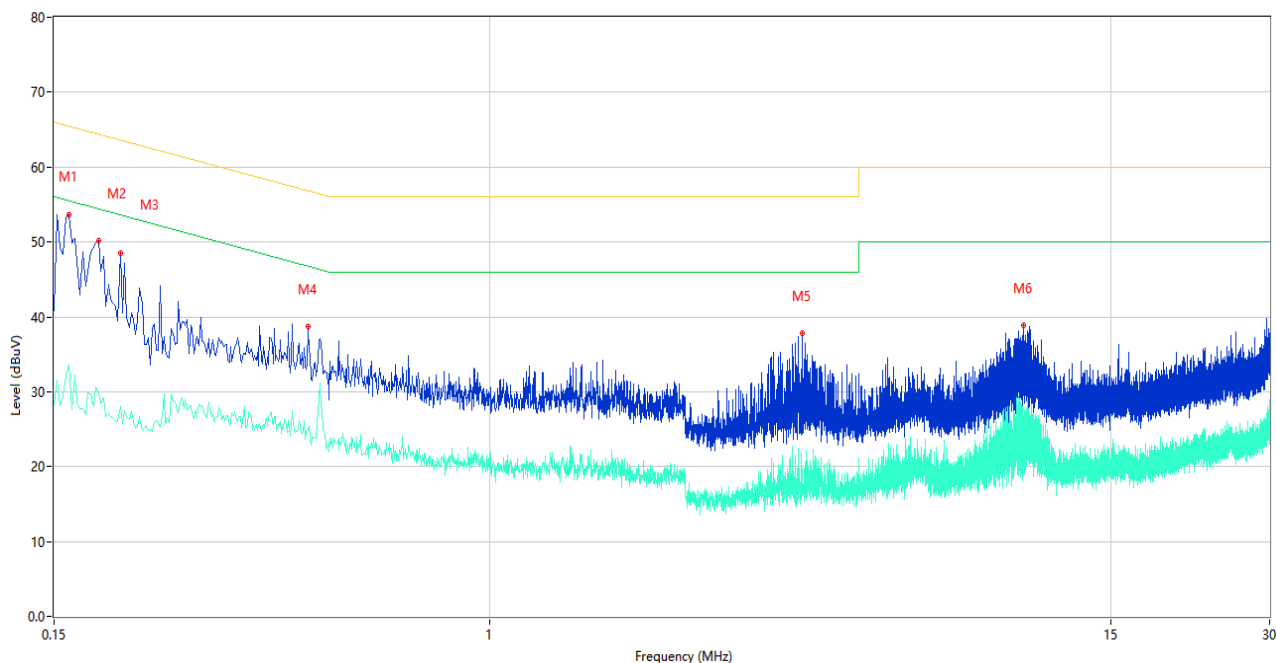
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	41.94	10.06	64.86	22.92	Peak	N	Pass
1**	0.172	33.39	10.06	54.86	21.47	AV	N	Pass
2	0.306	42.48	10.03	60.08	17.60	Peak	N	Pass
2**	0.306	31.28	10.03	50.08	18.80	AV	N	Pass
3	0.430	47.44	10.58	57.25	9.81	Peak	N	Pass
3**	0.430	38.89	10.58	47.25	8.36	AV	N	Pass
4	0.432	45.45	10.58	57.21	11.76	Peak	N	Pass
4**	0.432	39.36	10.58	47.21	7.85	AV	N	Pass
5	0.498	44.18	10.32	56.03	11.85	Peak	N	Pass
5**	0.498	31.71	10.32	46.03	14.32	AV	N	Pass
6	0.508	41.74	10.33	56.00	14.26	Peak	N	Pass
6**	0.508	35.64	10.33	46.00	10.36	AV	N	Pass

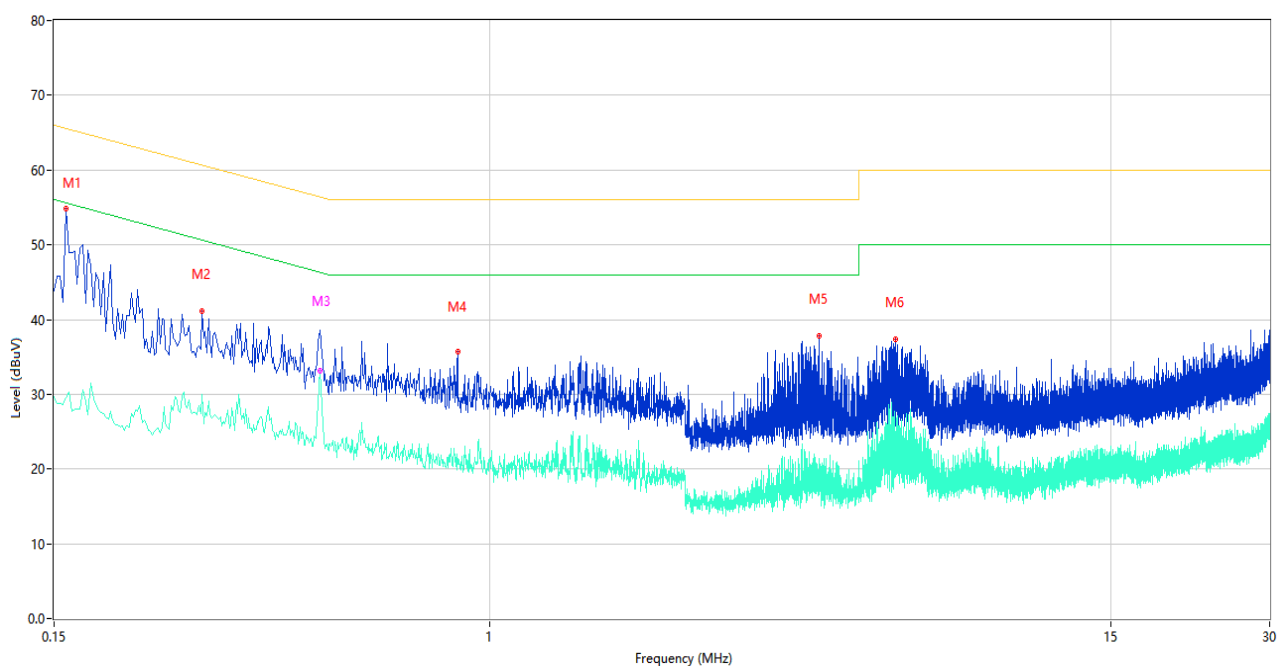
Test Mode 13

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	53.69	10.10	65.46	11.77	Peak	L	Pass
1**	0.160	33.66	10.10	55.46	21.80	AV	L	Pass
2	0.182	50.13	10.05	64.39	14.26	Peak	L	Pass
2**	0.182	29.81	10.05	54.39	24.58	AV	L	Pass
3	0.200	48.46	10.03	63.61	15.15	Peak	L	Pass
3**	0.200	28.07	10.03	53.61	25.54	AV	L	Pass
4	0.454	38.69	10.53	56.80	18.11	Peak	L	Pass
4**	0.454	25.01	10.53	46.80	21.79	AV	L	Pass
5	3.916	37.83	10.76	56.00	18.17	Peak	L	Pass
5**	3.916	19.68	10.76	46.00	26.32	AV	L	Pass
6	10.280	38.86	12.41	60.00	21.14	Peak	L	Pass
6**	10.280	26.83	12.41	50.00	23.17	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	54.80	10.10	65.57	10.77	Peak	N	Pass
1**	0.158	29.58	10.10	55.57	25.99	AV	N	Pass
2	0.286	41.13	10.04	60.64	19.51	Peak	N	Pass
2**	0.286	29.96	10.04	50.64	20.68	AV	N	Pass
3	0.478	38.57	10.41	56.37	17.80	Peak	N	Pass
3**	0.478	33.14	10.41	46.37	13.23	AV	N	Pass
4	0.872	35.65	10.37	56.00	20.35	Peak	N	Pass
4**	0.872	21.09	10.37	46.00	24.91	AV	N	Pass
5	4.214	37.85	10.79	56.00	18.15	Peak	N	Pass
5**	4.214	21.45	10.79	46.00	24.55	AV	N	Pass
6	5.862	37.38	11.23	60.00	22.62	Peak	N	Pass
6**	5.862	23.98	11.23	50.00	26.02	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	☒
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
ISN	TESEQ	ISN T800	34449	2024.11.06	2025.11.05	☐
ISN	TESEQ	ISN T8-Cat6	53561	2024.04.24	2025.04.23	☐
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2. 8m	112	2025.02.18	2026.02.17	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2520926-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2520926-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2520926-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--