

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: Tablet Computer
Model Name: 24076RP19G
Brand Name: Redmi
FCC ID: 2AFZZRP19G
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: May 07, 2024
Test Date: May 10, 2024 - May 11, 2024
Date of Issue: Jun. 06, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li JunFeng**Checked by:** Zhenxiang Liu**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 06, 2024</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	☒ 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	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	Tablet Computer
Model Name Under Test	24076RP19G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	13510N85
Software Version	Xiaomi HyperOS 1.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	S06, S07, S25, S45
IMEI Number	S06: IEMI1: 861427070046846, IMEI2: 861427070046853
	S07: IEMI1: 861427070046746, IMEI2: 861427070046753
	S25: IEMI1: 861427070054187, IMEI2: 861427070054195
	S45: IEMI1: 861427070040301, IMEI2: 861427070040319

2.4 Ancillary Equipment

Please refer the document “BL-SZ2440422-AW EUT external photo.pdf”.

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA Band 1/2/4/5/6/8/19 4G Network FDD LTE Band 1/2/3/4/5/7/8/13/18/19/20/26/28/66 TDD LTE Band 38/40/41 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) U-NII-1/2A/2C/3, GPS, GLONASS, Galileo, BDS, SBAS, FM receiver
Classification of equipment	Class B
The highest internal frequency of EUT	5850 MHz

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Verdict

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

3.3 Test Uncertainty

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2024.12.04	☒
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	32G	☒
TF Card	SAMSUNG	MB-MD256KA	N/A	N/A	256G	☒
Type-C Headset	OPPO	MH156	N/A	1.12m	N/A	☒
Headset	Xiaomi	EM023	N/A	1.25m	N/A	☒

4.2 Test Configurations

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

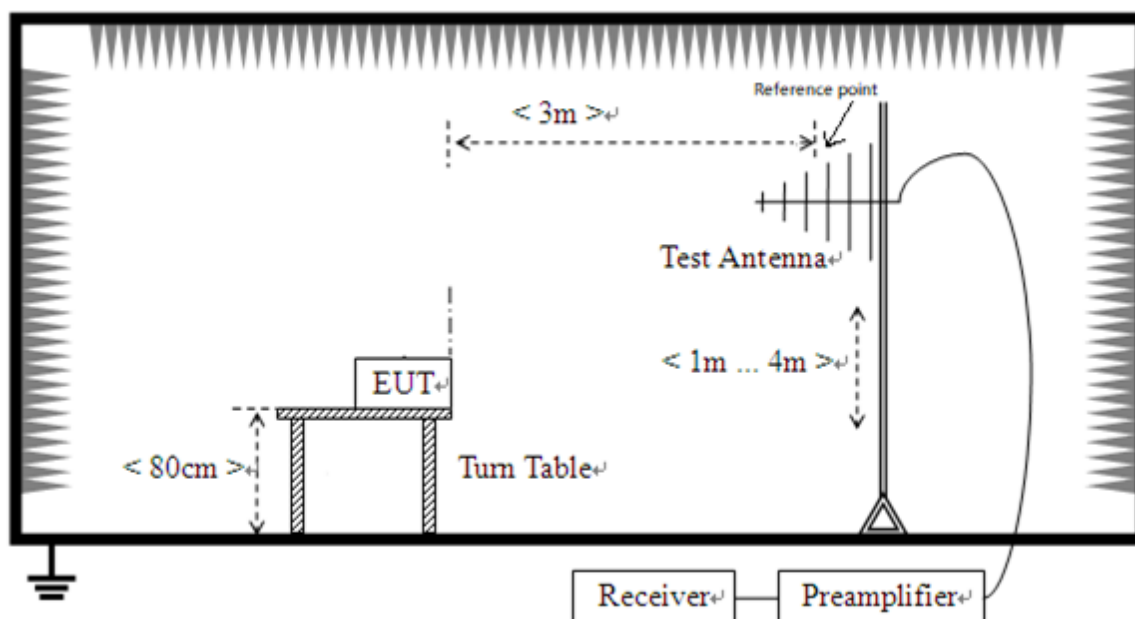
Test Mode Configuration	Description
Mode 1	<u>The GSM850 RX Test Mode</u> GSM850 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 2	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 3	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 4	<u>The FDD LTE Band 13 RX Test Mode</u> LTE Band 13 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 5	<u>The FDD LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT +Adapter + USB Cable + Battery + Headset + TF Card
Mode 6	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 7	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 8	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 9	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card

Mode 10	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + Headset + TF Card
Mode 11	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk + Headset + TF Card
Mode 12	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery
Mode 13	<u>The FM Test Mode</u> FM RX + EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 14	<u>The Type-C Headset FM Test Mode</u> FM RX + EUT Battery + Type-C Headset + TF Card

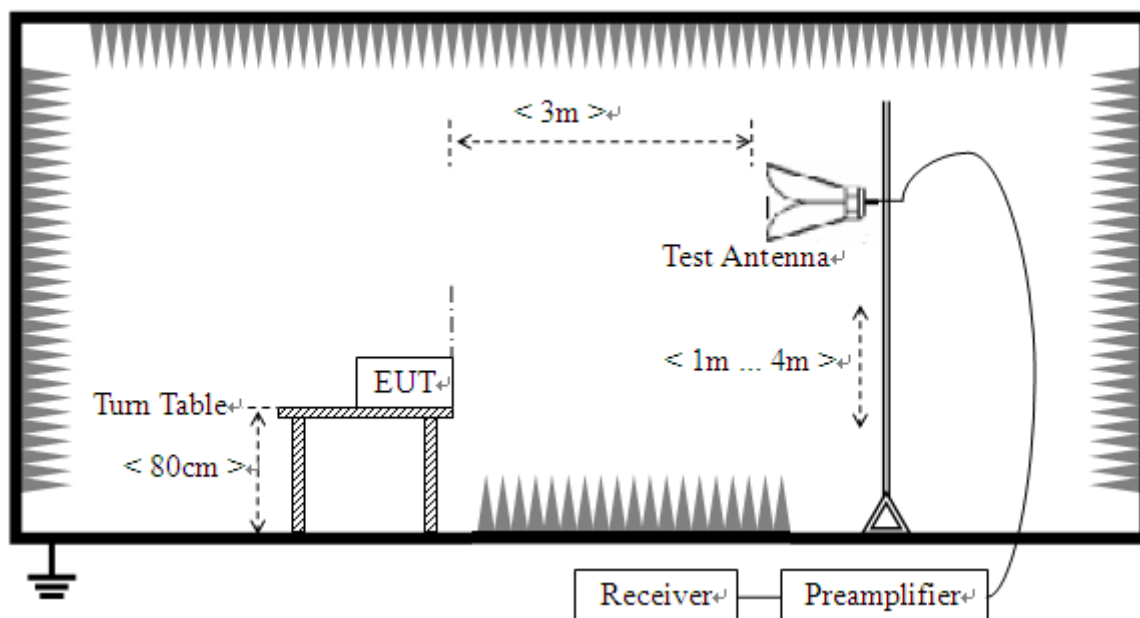
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 14	6, 10
Conducted Emission, AC Ports	Mode 1~Mode 10, Mode 13	6, 10
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

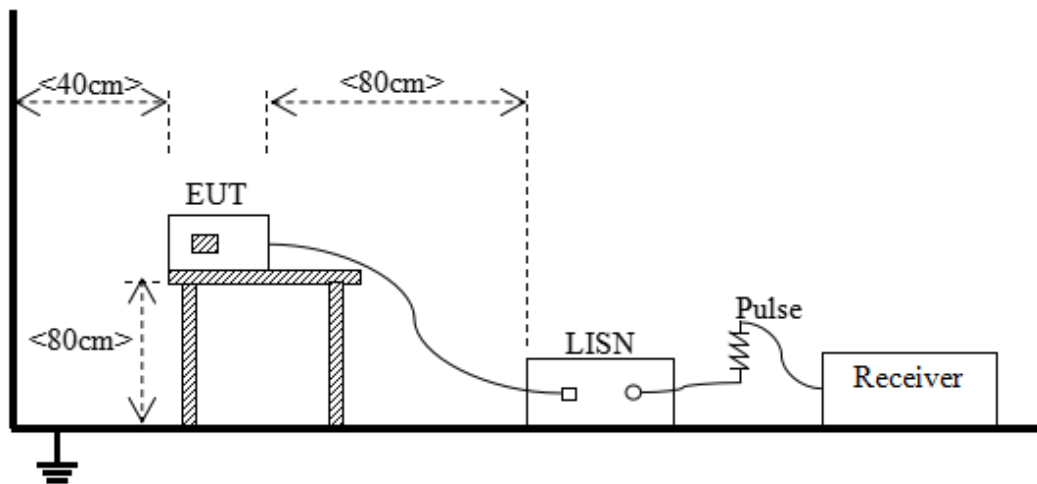
Test Setup 1



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.

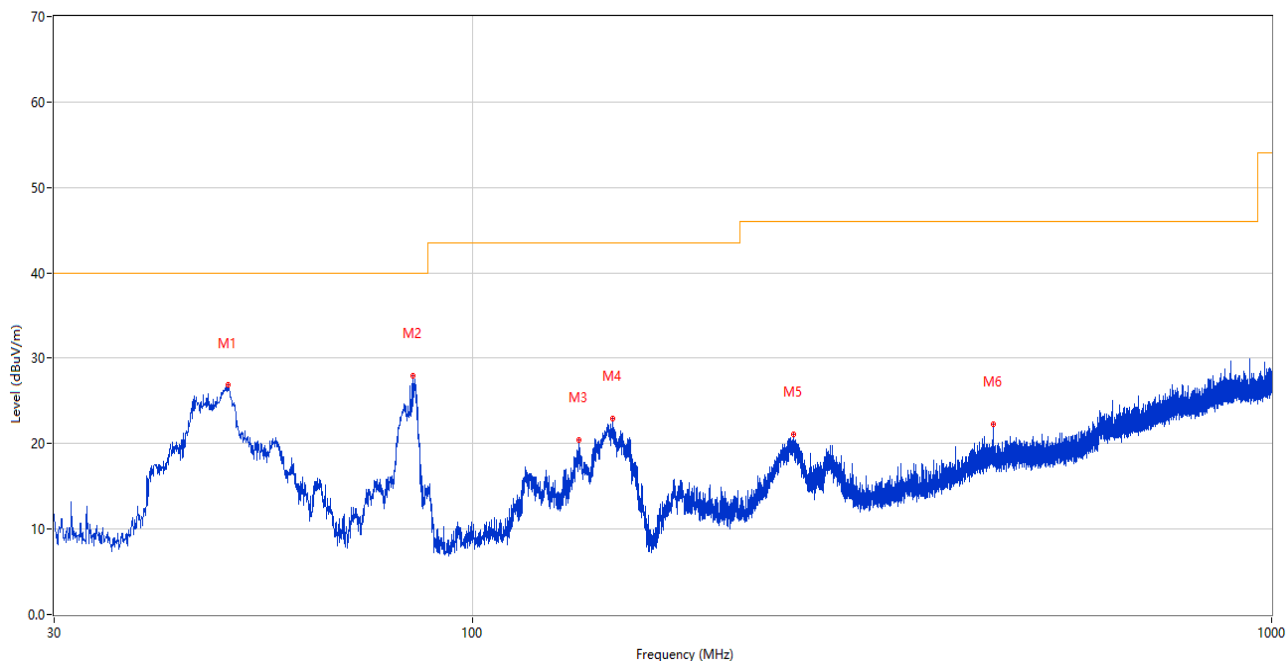
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S07	Temperature	21.5℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	He ShiChang	Test Date	2024.05.10 – 2024.05.11

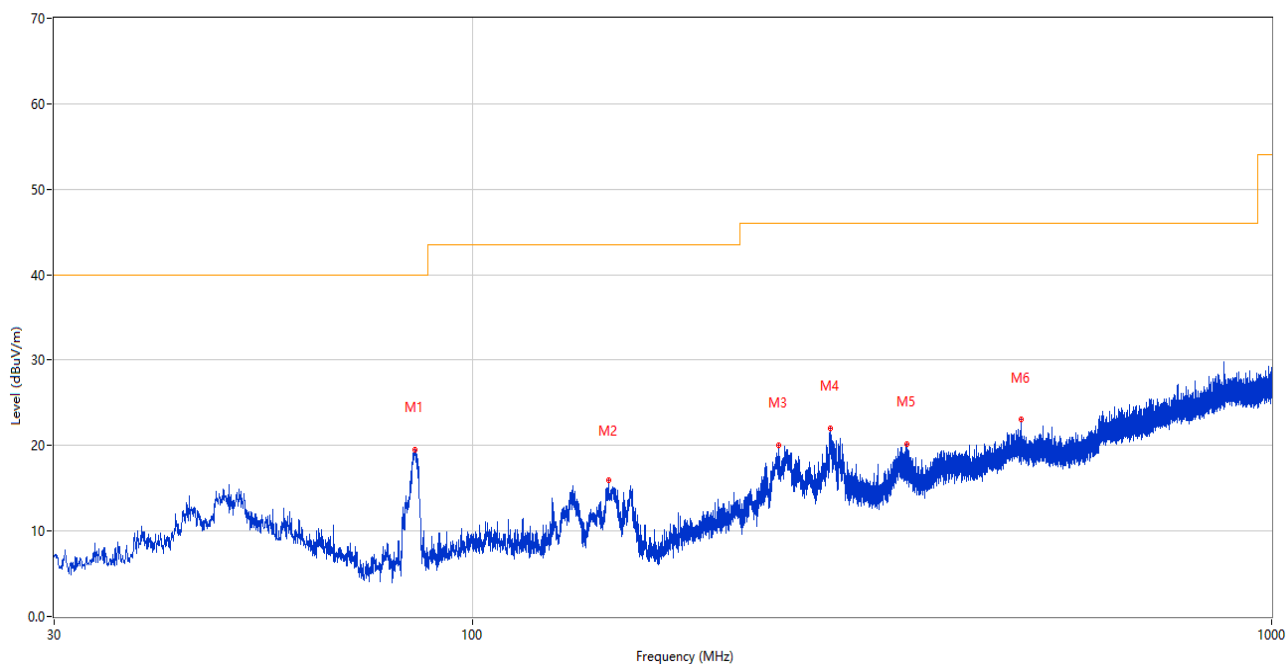
Test Mode 6

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	49.497	26.83	-25.52	40.0	13.17	Peak	204.00	100	Vertical	Pass
2	84.223	27.89	-30.06	40.0	12.11	Peak	249.00	100	Vertical	Pass
3	135.924	20.45	-30.10	43.5	23.05	Peak	220.00	100	Vertical	Pass
4	149.941	22.95	-30.06	43.5	20.55	Peak	216.00	100	Vertical	Pass
5	252.033	21.05	-24.82	46.0	24.95	Peak	6.00	100	Vertical	Pass
6	449.040	22.29	-19.93	46.0	23.71	Peak	159.00	100	Vertical	Pass

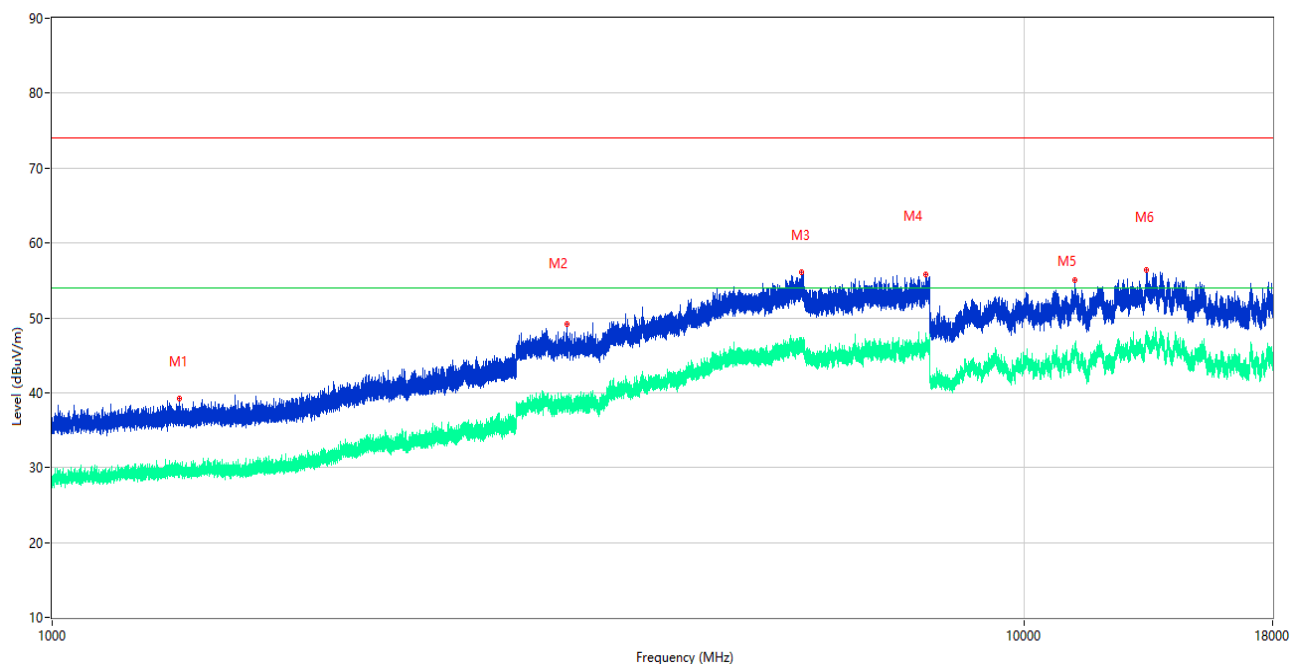
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	84.757	19.51	-29.98	40.0	20.49	Peak	0.00	200	Horizontal	Pass
2	148.194	15.90	-30.15	43.5	27.60	Peak	242.00	100	Horizontal	Pass
3	241.848	20.07	-25.09	46.0	25.93	Peak	58.00	100	Horizontal	Pass
4	280.697	22.07	-24.10	46.0	23.93	Peak	68.00	100	Horizontal	Pass
5	350.246	20.21	-21.91	46.0	25.79	Peak	39.00	100	Horizontal	Pass
6	485.415	23.01	-19.01	46.0	22.99	Peak	360.00	100	Horizontal	Pass

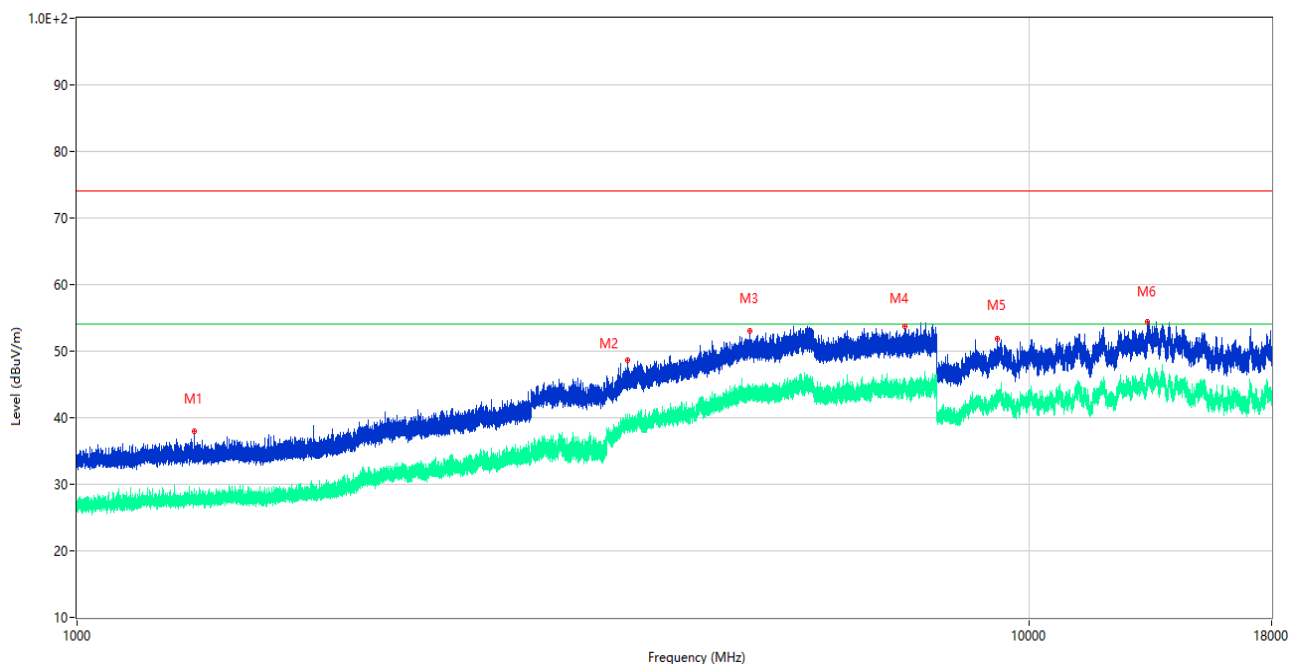
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168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

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	1350.800	39.19	-15.97	74.0	34.81	Peak	155.00	100	Vertical	Pass
1**	1350.800	29.71	-15.97	54.0	24.29	AV	155.00	100	Vertical	Pass
2	3384.250	49.16	-4.78	74.0	24.84	Peak	27.00	100	Vertical	Pass
2**	3384.250	38.39	-4.78	54.0	15.61	AV	27.00	100	Vertical	Pass
3	5900.750	56.05	3.84	74.0	17.95	Peak	27.00	100	Vertical	Pass
3**	5900.750	45.65	3.84	54.0	8.35	AV	27.00	100	Vertical	Pass
4	7918.500	55.84	2.90	74.0	18.16	Peak	80.00	100	Vertical	Pass
4**	7918.500	45.94	2.90	54.0	8.06	AV	80.00	100	Vertical	Pass
5	11277.500	55.10	2.12	74.0	18.90	Peak	166.00	100	Vertical	Pass
5**	11277.500	45.85	2.12	54.0	8.15	AV	166.00	100	Vertical	Pass
6	13360.000	56.45	5.17	74.0	17.55	Peak	256.00	100	Vertical	Pass
6**	13360.000	47.75	5.17	54.0	6.25	AV	256.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

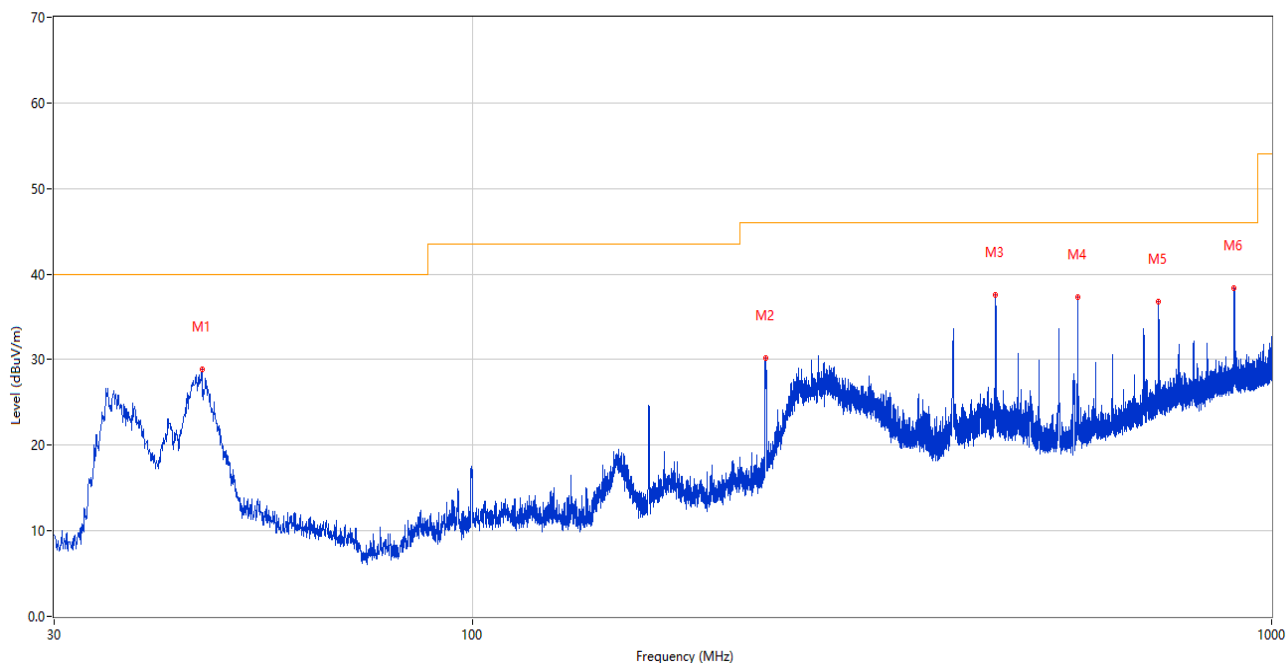


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	37.97	-16.08	74.0	36.03	Peak	157.00	100	Horizontal	Pass
1**	1329.300	27.45	-16.08	54.0	26.55	AV	157.00	100	Horizontal	Pass
2	3785.000	48.64	-2.14	74.0	25.36	Peak	24.00	100	Horizontal	Pass
2**	3785.000	38.82	-2.14	54.0	15.18	AV	24.00	100	Horizontal	Pass
3	5099.250	53.00	1.78	74.0	21.00	Peak	7.00	100	Horizontal	Pass
3**	5099.250	44.52	1.78	54.0	9.48	AV	7.00	100	Horizontal	Pass
4	7407.500	53.75	2.66	74.0	20.25	Peak	193.00	100	Horizontal	Pass
4**	7407.500	45.10	2.66	54.0	8.90	AV	193.00	100	Horizontal	Pass
5	9275.000	51.87	1.83	74.0	22.13	Peak	324.00	100	Horizontal	Pass
5**	9275.000	42.41	1.83	54.0	11.59	AV	324.00	100	Horizontal	Pass
6	13338.000	54.42	4.81	74.0	19.58	Peak	66.00	100	Horizontal	Pass
6**	13338.000	46.37	4.81	54.0	7.63	AV	66.00	100	Horizontal	Pass

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

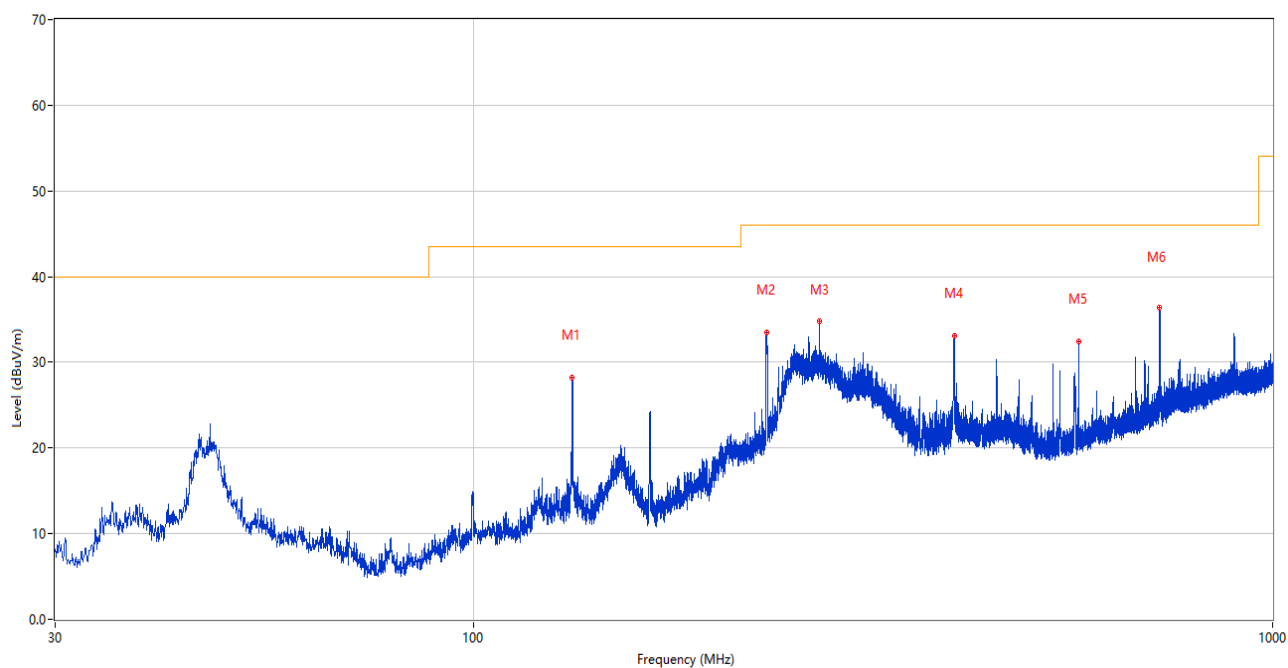
Test Mode 10

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	45.908	28.91	-25.55	40.0	11.09	Peak	330.00	100	Vertical	Pass
2	233.215	30.25	-25.44	46.0	15.75	Peak	288.00	200	Vertical	Pass
3	451.707	37.57	-19.84	46.0	8.43	Peak	163.00	100	Vertical	Pass
4	572.036	37.37	-16.98	46.0	8.63	Peak	284.00	100	Vertical	Pass
5	722.289	36.78	-13.54	46.0	9.22	Peak	182.00	100	Vertical	Pass
6	897.131	38.40	-9.87	46.0	7.60	Peak	17.00	200	Vertical	Pass

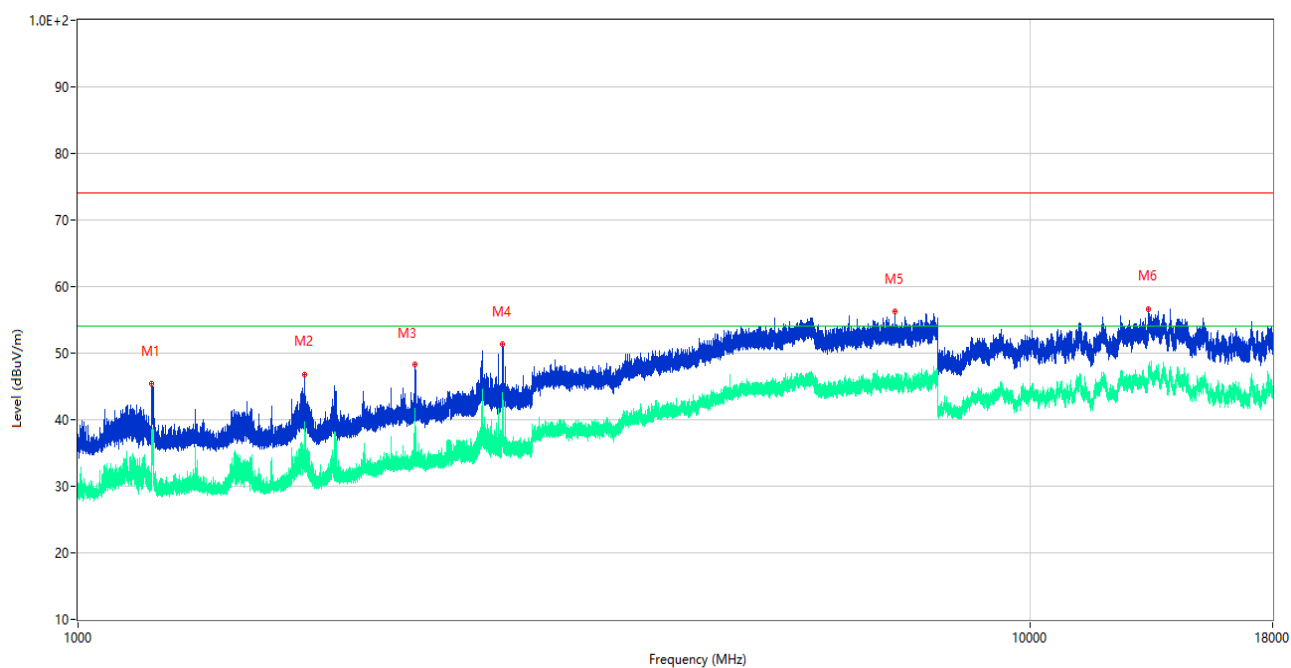
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	132.820	28.16	-29.93	43.5	15.34	Peak	223.00	200	Horizontal	Pass
2	233.215	33.43	-25.44	46.0	12.57	Peak	226.00	100	Horizontal	Pass
3	270.948	34.78	-24.40	46.0	11.22	Peak	278.00	100	Horizontal	Pass
4	399.813	33.06	-20.95	46.0	12.94	Peak	231.00	100	Horizontal	Pass
5	571.987	32.40	-16.98	46.0	13.60	Peak	208.00	200	Horizontal	Pass
6	722.434	36.37	-13.52	46.0	9.63	Peak	239.00	100	Horizontal	Pass

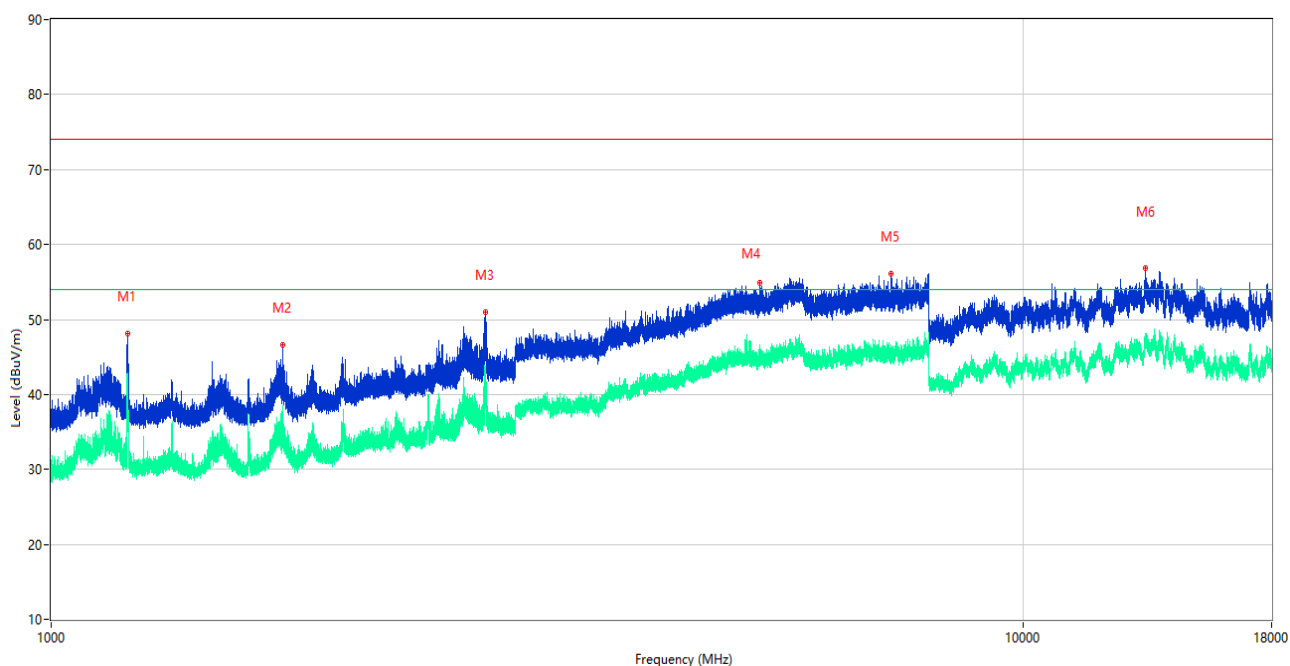
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168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

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	1196.100	45.35	-16.29	74.0	28.65	Peak	228.00	100	Vertical	Pass
1**	1196.100	37.25	-16.29	54.0	16.75	AV	228.00	100	Vertical	Pass
2	1729.500	46.81	-15.90	74.0	27.19	Peak	46.00	100	Vertical	Pass
2**	1729.500	38.31	-15.90	54.0	15.69	AV	46.00	100	Vertical	Pass
3	2261.700	48.33	-12.52	74.0	25.67	Peak	228.00	100	Vertical	Pass
3**	2261.700	39.15	-12.52	54.0	14.85	AV	228.00	100	Vertical	Pass
4	2794.700	51.27	-8.36	74.0	22.73	Peak	170.00	100	Vertical	Pass
4**	2794.700	38.80	-8.36	54.0	15.20	AV	170.00	100	Vertical	Pass
5	7226.500	56.19	1.76	74.0	17.81	Peak	327.00	100	Vertical	Pass
5**	7226.500	44.64	1.76	54.0	9.36	AV	327.00	100	Vertical	Pass
6	13337.000	56.66	4.78	74.0	17.34	Peak	298.00	100	Vertical	Pass
6**	13337.000	47.01	4.78	54.0	6.99	AV	298.00	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	1198.800	48.15	-16.25	74.0	25.85	Peak	235.00	100	Horizontal	Pass
1**	1198.800	39.55	-16.25	54.0	14.45	AV	235.00	100	Horizontal	Pass
2	1730.400	46.60	-15.83	74.0	27.40	Peak	191.00	100	Horizontal	Pass
2**	1730.400	33.11	-15.83	54.0	20.89	AV	191.00	100	Horizontal	Pass
3	2794.400	50.93	-8.38	74.0	23.07	Peak	165.00	100	Horizontal	Pass
3**	2794.400	42.49	-8.38	54.0	11.51	AV	165.00	100	Horizontal	Pass
4	5359.250	54.85	2.62	74.0	19.15	Peak	230.00	100	Horizontal	Pass
4**	5359.250	44.28	2.62	54.0	9.72	AV	230.00	100	Horizontal	Pass
5	7312.750	56.08	1.48	74.0	17.92	Peak	60.00	100	Horizontal	Pass
5**	7312.750	46.06	1.48	54.0	7.94	AV	60.00	100	Horizontal	Pass
6	13350.000	56.93	5.23	74.0	17.07	Peak	156.00	100	Horizontal	Pass
6**	13350.000	46.85	5.23	54.0	7.15	AV	156.00	100	Horizontal	Pass

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

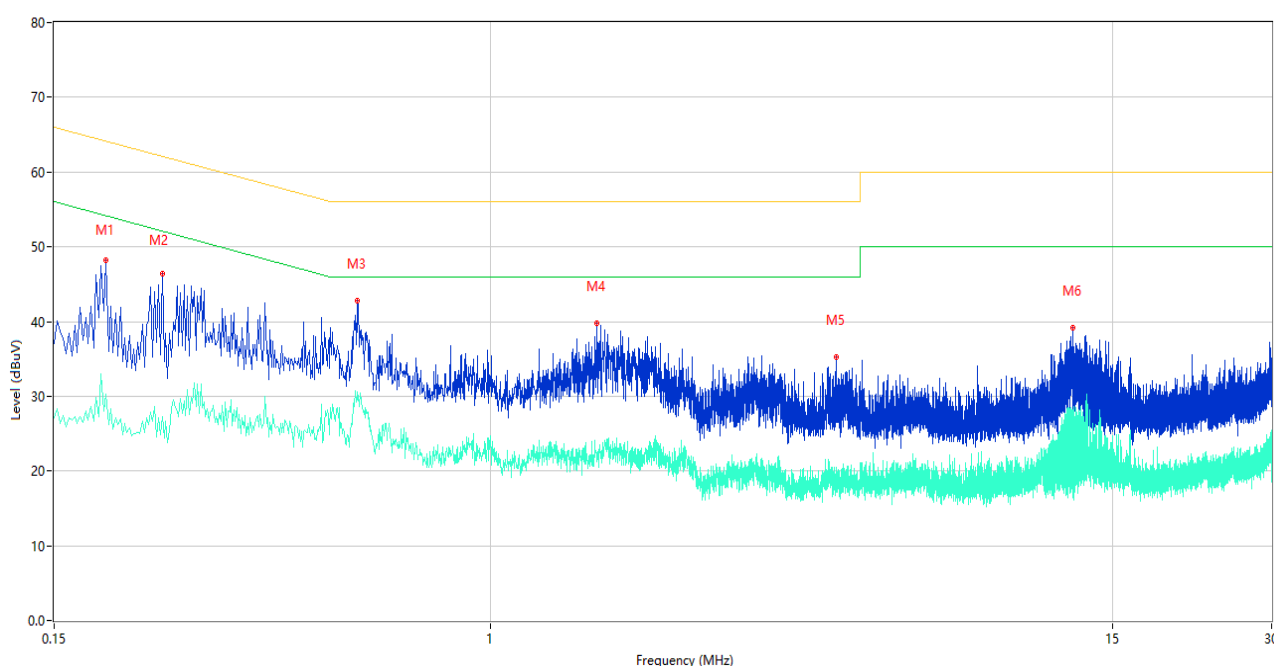
A.2 Conducted Emission, AC Ports

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

Sample No.	S07, S06	Temperature	21.5℃
Humidity	50%RH	Pressure	101kPa
Test Engineer	Yangyang	Test Date	2024.05.11

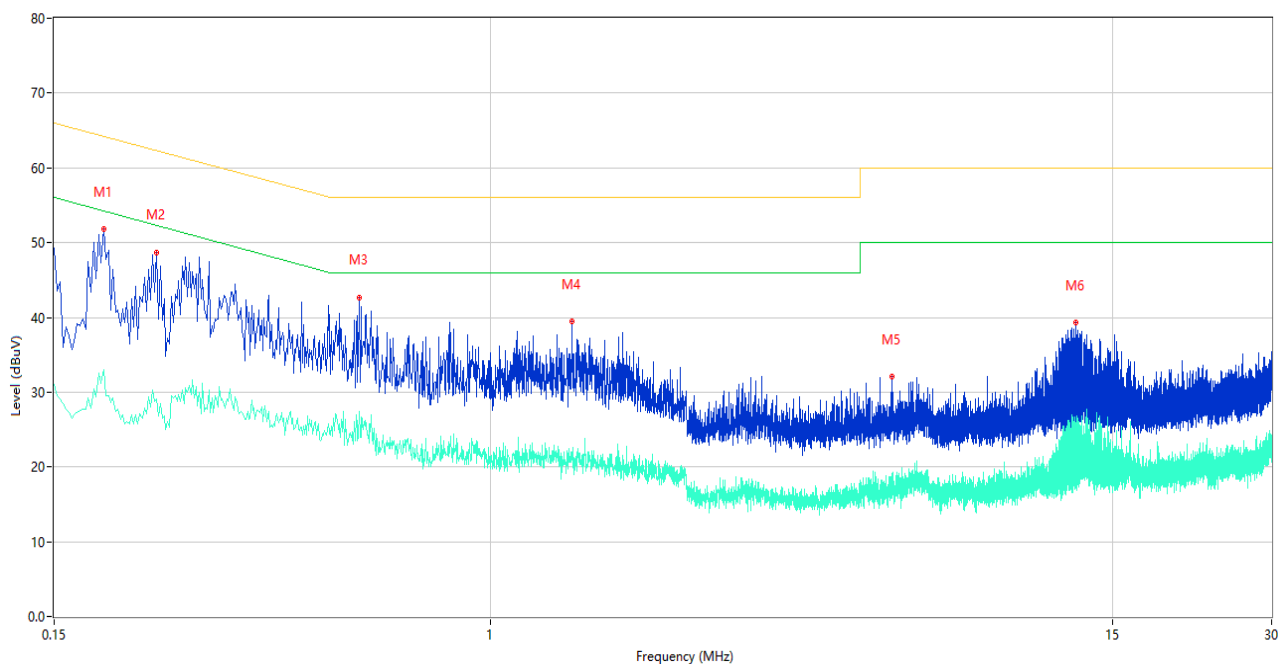
Test Mode 6

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	48.27	10.06	64.12	15.85	Peak	L	Pass
1**	0.188	30.24	10.06	54.12	23.88	AV	L	Pass
2	0.240	46.42	10.05	62.10	15.68	Peak	L	Pass
2**	0.240	27.25	10.05	52.10	24.85	AV	L	Pass
3	0.560	42.76	10.52	56.00	13.24	Peak	L	Pass
3**	0.560	30.56	10.52	46.00	15.44	AV	L	Pass
4	1.588	39.75	10.12	56.00	16.25	Peak	L	Pass
4**	1.588	22.36	10.12	46.00	23.64	AV	L	Pass
5	4.512	35.19	10.59	56.00	20.81	Peak	L	Pass
5**	4.512	20.31	10.59	46.00	25.69	AV	L	Pass
6	12.652	39.10	12.02	60.00	20.90	Peak	L	Pass
6**	12.652	28.20	12.02	50.00	21.80	AV	L	Pass

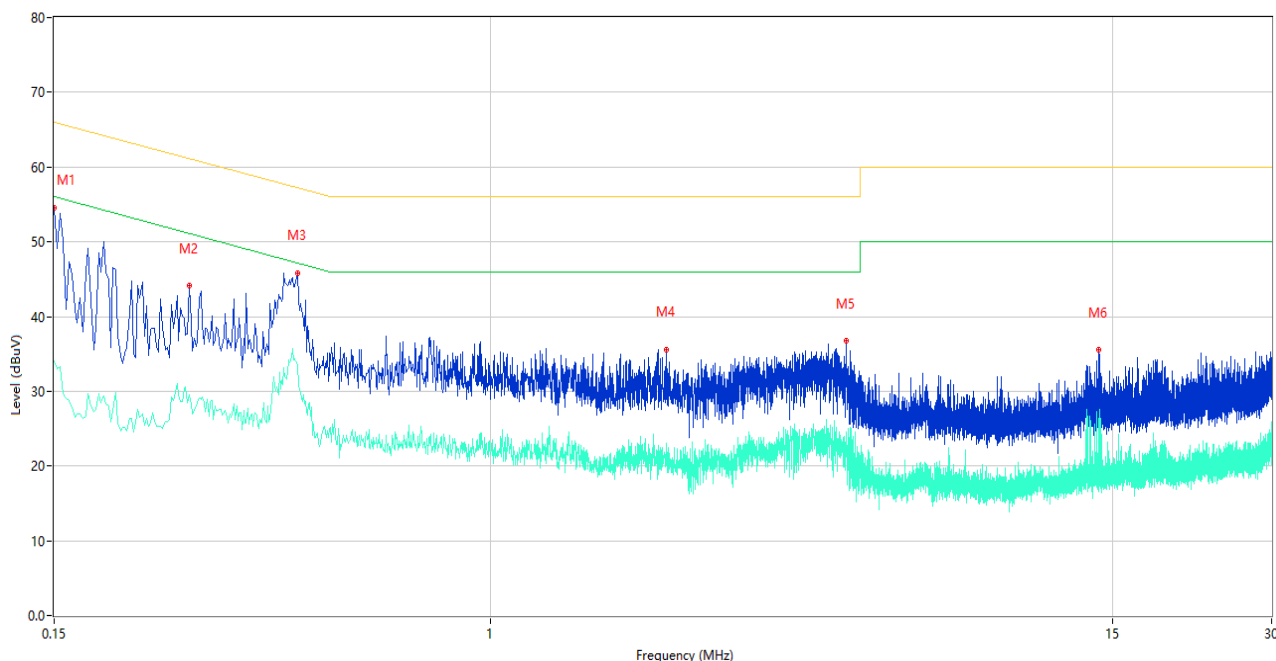
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.186	51.76	10.06	64.21	12.45	Peak	N	Pass
1**	0.186	33.01	10.06	54.21	21.20	AV	N	Pass
2	0.234	48.74	10.05	62.31	13.57	Peak	N	Pass
2**	0.234	29.05	10.05	52.31	23.26	AV	N	Pass
3	0.566	42.70	10.55	56.00	13.30	Peak	N	Pass
3**	0.566	27.49	10.55	46.00	18.51	AV	N	Pass
4	1.428	39.51	10.67	56.00	16.49	Peak	N	Pass
4**	1.428	21.94	10.67	46.00	24.06	AV	N	Pass
5	5.752	32.04	10.95	60.00	27.96	Peak	N	Pass
5**	5.752	16.97	10.95	50.00	33.03	AV	N	Pass
6	12.780	39.29	11.93	60.00	20.71	Peak	N	Pass
6**	12.780	25.89	11.93	50.00	24.11	AV	N	Pass

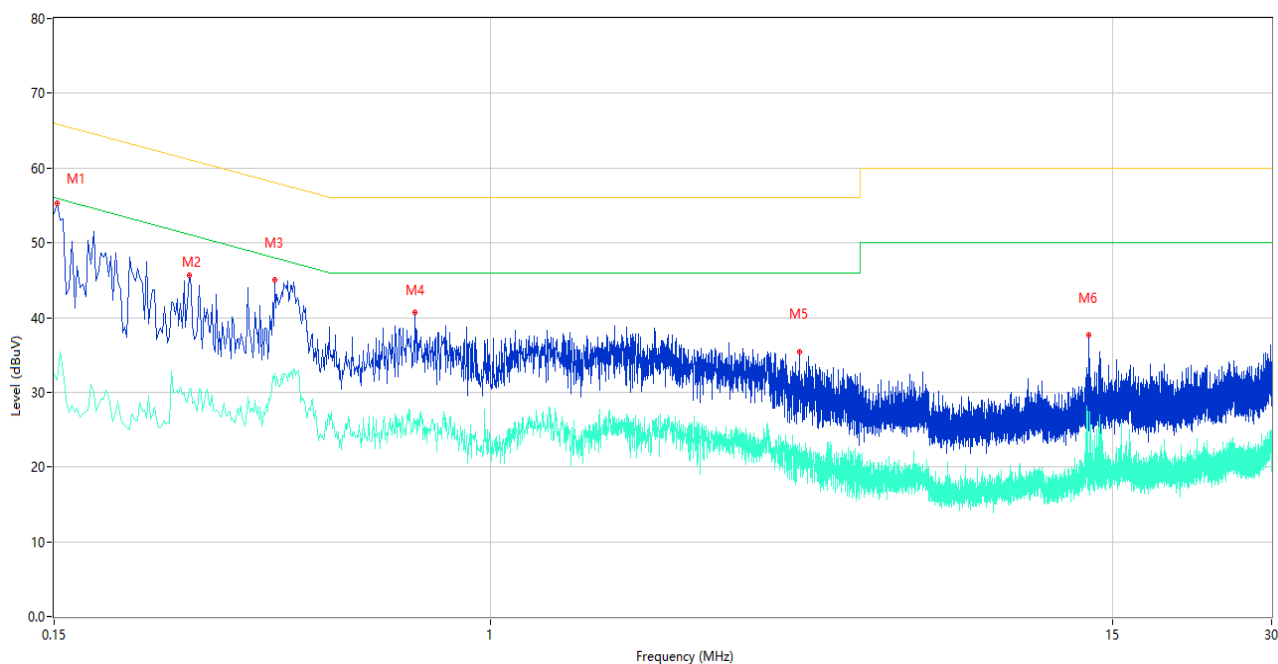
Test Mode 10

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	54.50	10.11	66.00	11.50	Peak	L	Pass
1**	0.150	33.99	10.11	56.00	22.01	AV	L	Pass
2	0.270	44.18	10.06	61.12	16.94	Peak	L	Pass
2**	0.270	29.52	10.06	51.12	21.60	AV	L	Pass
3	0.432	45.85	10.61	57.21	11.36	Peak	L	Pass
3**	0.432	33.57	10.61	47.21	13.64	AV	L	Pass
4	2.154	35.62	10.81	56.00	20.38	Peak	L	Pass
4**	2.154	23.01	10.81	46.00	22.99	AV	L	Pass
5	4.712	36.80	10.76	56.00	19.20	Peak	L	Pass
5**	4.712	23.44	10.76	46.00	22.56	AV	L	Pass
6	14.150	35.57	12.52	60.00	24.43	Peak	L	Pass
6**	14.150	24.78	12.52	50.00	25.22	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	55.23	10.11	65.89	10.66	Peak	N	Pass
1**	0.152	31.59	10.11	55.89	24.30	AV	N	Pass
2	0.270	45.62	10.06	61.12	15.50	Peak	N	Pass
2**	0.270	30.49	10.06	51.12	20.63	AV	N	Pass
3	0.392	44.99	10.54	58.02	13.03	Peak	N	Pass
3**	0.392	32.55	10.54	48.02	15.47	AV	N	Pass
4	0.722	40.63	10.44	56.00	15.37	Peak	N	Pass
4**	0.722	26.21	10.44	46.00	19.79	AV	N	Pass
5	3.846	35.48	10.55	56.00	20.52	Peak	N	Pass
5**	3.846	21.05	10.55	46.00	24.95	AV	N	Pass
6	13.542	37.67	12.23	60.00	22.33	Peak	N	Pass
6**	13.542	21.91	12.23	50.00	28.09	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	☒
LISN	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
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	2022.02.19	2025.02.18	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2440422-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2440422-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2440422-AI.PDF”.

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--END OF REPORT--