

TEST REPORT

Applicant: Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address: NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China
Equipment Type: Mobile Phone
Model Name: CPH2725
Brand Name: OPPO
FCC ID: R9C-OP24303
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Dec. 24, 2024
Test Date: Dec. 26, 2024 - Jan. 06, 2025
Date of Issue: Feb. 24, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Qiu Yongjing

Checked by: Liu Zhenxiang

Approved by: Tolan Tu
(Testing Director)

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Feb. 24, 2025</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	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.2 Manufacturer Information

Manufacturer	Guangdong OPPO Mobile Telecommunications Corp., Ltd.
Address	NO.18 HaiBin Road, Wusha Village, Chang'an Town, DongGuan City, Guangdong Province, P.R. China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	CPH2725
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	ColorOS 15.0.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLPC21
	Serial No.	N/A
	Capacitance	Rated Capacity: 5860mAh/22.98Wh, Typical Capacity: 6000mAh/23.52Wh
	Rated Voltage	3.92Vdc
	Limited Voltage	4.53Vdc
	Manufacturer	Dongguan NVT Technology Co., Ltd
Ancillary Equipment 2	Li-Polymer Battery(alternative) 2	
	Brand Name	SUPERVOOC
	Model No.	BLPC21
	Serial No.	N/A
	Capacitance	Rated Capacity: 5860mAh/22.98Wh, Typical Capacity: 6000mAh/23.52Wh
	Rated Voltage	3.92Vdc
	Limited Voltage	4.53Vdc
	Supplier	SUNWODA Electronic Co., Ltd.
Ancillary Equipment 3	Power Supply Unit 1	
	Brand Name	SUPERVOOC
	Model No.	VCB4JAUH (US Plug)
	Serial No.	N/A
	Rated Input	Input: 100-240VAC, 50/60Hz, 1.5A
	Rated Output	Output: 5.0VDC, 2.0A, or 5.0-11.0VDC, 4.1A MAX, (45W Max)
	Manufacturer	Jiangsu Chenyang Electron Co., Ltd
Ancillary Equipment 4	Power Supply Unit(alternative) 2	
	Brand Name	SUPERVOOC
	Model No.	VCB4JAUH (US Plug)
	Serial No.	N/A
	Rated Input	Input: 100-240VAC, 50/60Hz, 1.5A
	Rated Output	Output: 5.0VDC, 2.0A, or 5.0-11.0VDC, 4.1A MAX, (45W Max)
	Manufacturer	Huizhou Golden Lake Industrial Co., Ltd.
Ancillary Equipment 5	Power Supply Unit(alternative) 3	
	Brand Name	SUPERVOOC
	Model No.	VCB4HAUH (US Plug)
	Serial No.	N/A
	Rated Input	Input: 100-240VAC, 50/60Hz, 1.5A
	Rated Output	Output: 5.0VDC, 2.0A, or 5.0-11.0VDC, 4.1A MAX, (45W Max)
	Manufacturer	Huizhou Golden Lake Industrial Co., Ltd.
Ancillary Equipment 6	Power Supply Unit(alternative) 4	
	Brand Name	SUPERVOOC

	Model No.	VCB4HAUH (US Plug)
	Serial No.	N/A
	Rated Input	Input: 100-240VAC, 50/60Hz, 1.5A
	Rated Output	Output: 5.0VDC, 2.0A, or 5.0-11.0VDC, 4.1A MAX, (45W Max)
	Manufacturer	Shenzhen Huntkey Electric Co.,Ltd
Ancillary Equipment 7	USB Cable	
	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 VCB4HAUH (US Plug) (Shenzhen Huntkey Electric Co.,Ltd) shown in this report. Note 3: All Batteries are tested, only the worst data of BLPC21 (Dongguan NVT Technology Co., Ltd) shown in this report.		

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 1/2/3/4/5/7/8/12/13/17/18/19/26/28/66 TDD LTE Band 38/40/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80) GNSS, 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
Laptop	HONOR	KPRC-W10	N/A	N/A	N/A	☒
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	☒
TF Card	SAMSUNG	MB-MD256KA	N/A	N/A	256G	☒
Earphone	OPPO	N/A	N/A	N/A	N/A	☒
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2025.05.08	☒

4.2 Test Configurations

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

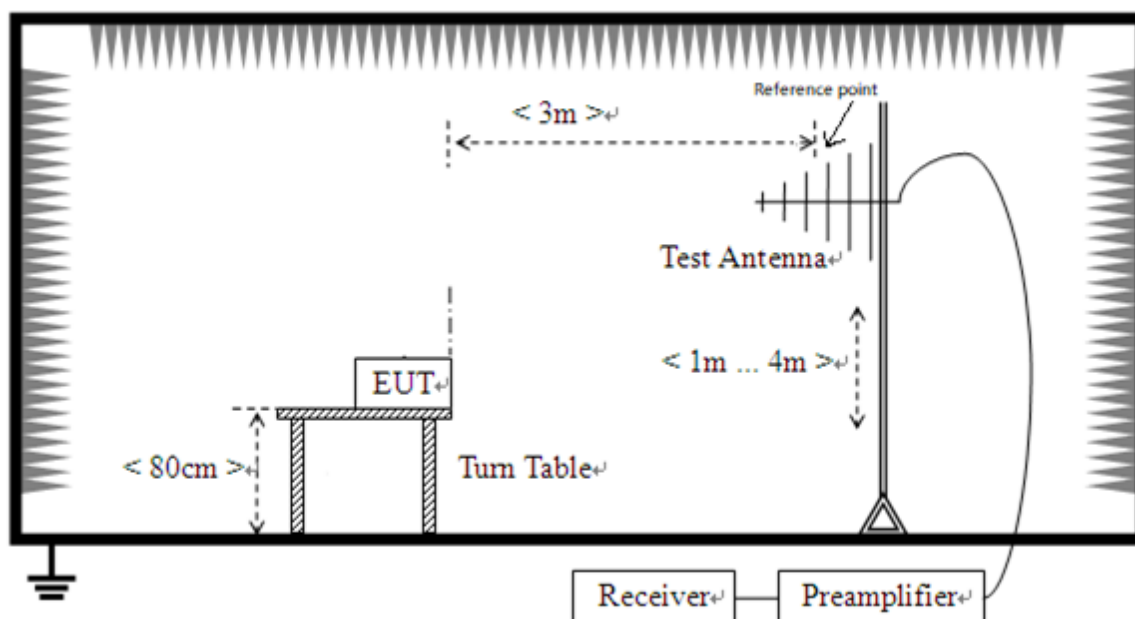
Test Mode Configuration	Description
Mode 1	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 2	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 3	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 4	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + Headset
Mode 5	<u>The FM Test Mode</u> EUT + Adapter + USB Cable + Battery + TF Card + FM RX + Headset
Mode 6	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + TF Card + Headset
Mode 7	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 8	<u>The GSM 850 RX Test Mode</u> GSM 850 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 9	<u>The GSM 900 RX Test Mode</u> GSM 900 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 10	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset

Mode 11	<u>The WCDMA Band 8 RX Test Mode</u> WCDMA Band 8 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 12	<u>The LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 13	<u>The LTE Band 8 RX Test Mode</u> LTE Band 8 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 14	<u>The LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 15	<u>The LTE Band 13 RX Test Mode</u> LTE Band 13 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 16	<u>The LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 17	<u>The LTE Band 18 RX Test Mode</u> LTE Band 18 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 18	<u>The LTE Band 19 RX Test Mode</u> LTE Band 19 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 19	<u>The LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset
Mode 20	<u>The LTE Band 28 RX Test Mode</u> LTE Band 28 RX + EUT + Battery + Data connector + USB Disk + TF Card + Headset

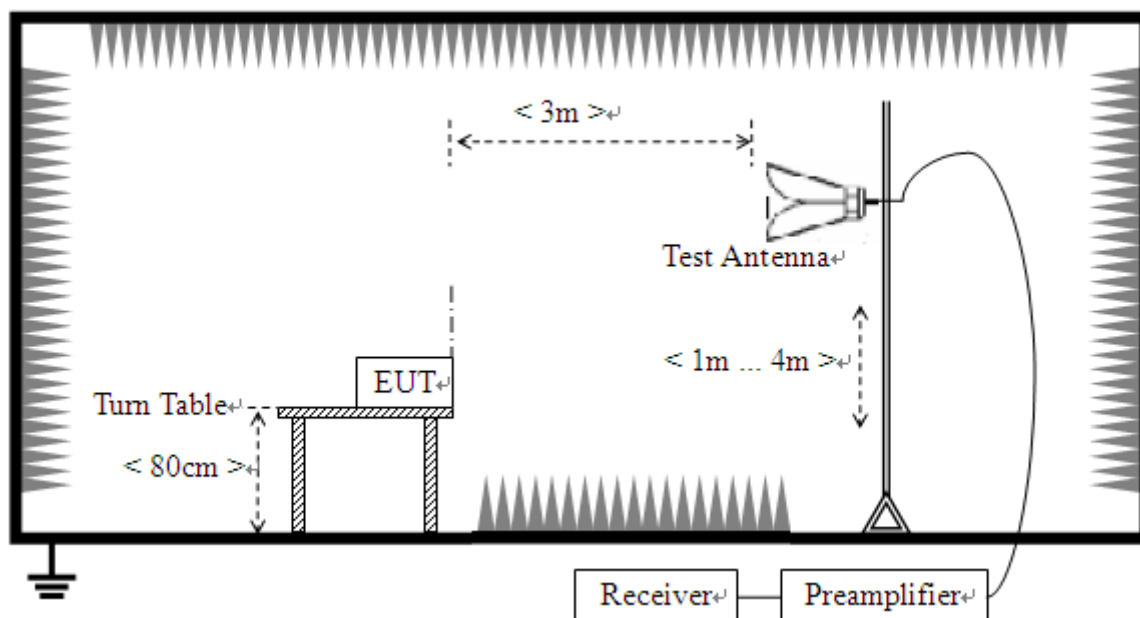
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 20	4,6
Conducted Emission, AC Ports	Mode 1~Mode 6, Mode 8~Mode 20	4,6
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

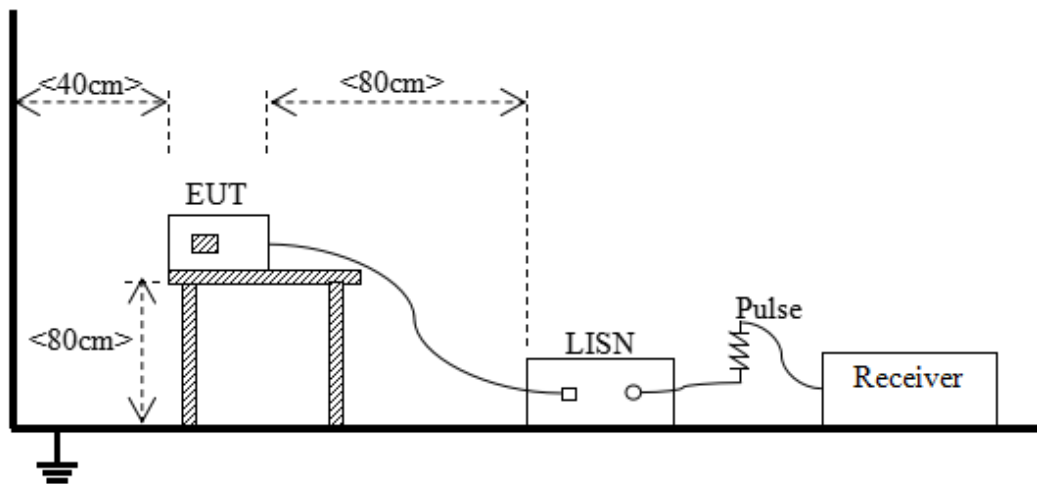
Test Setup 1



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.

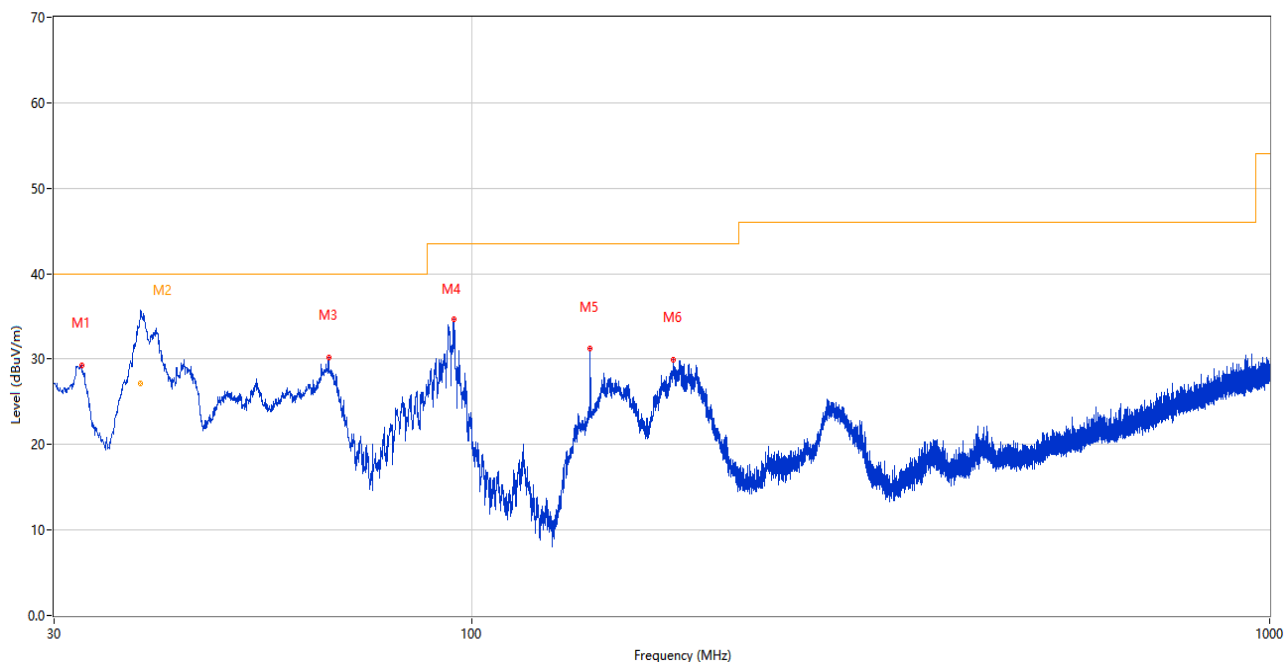
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S08	Temperature	22.6℃
Humidity	23%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2025.02.17

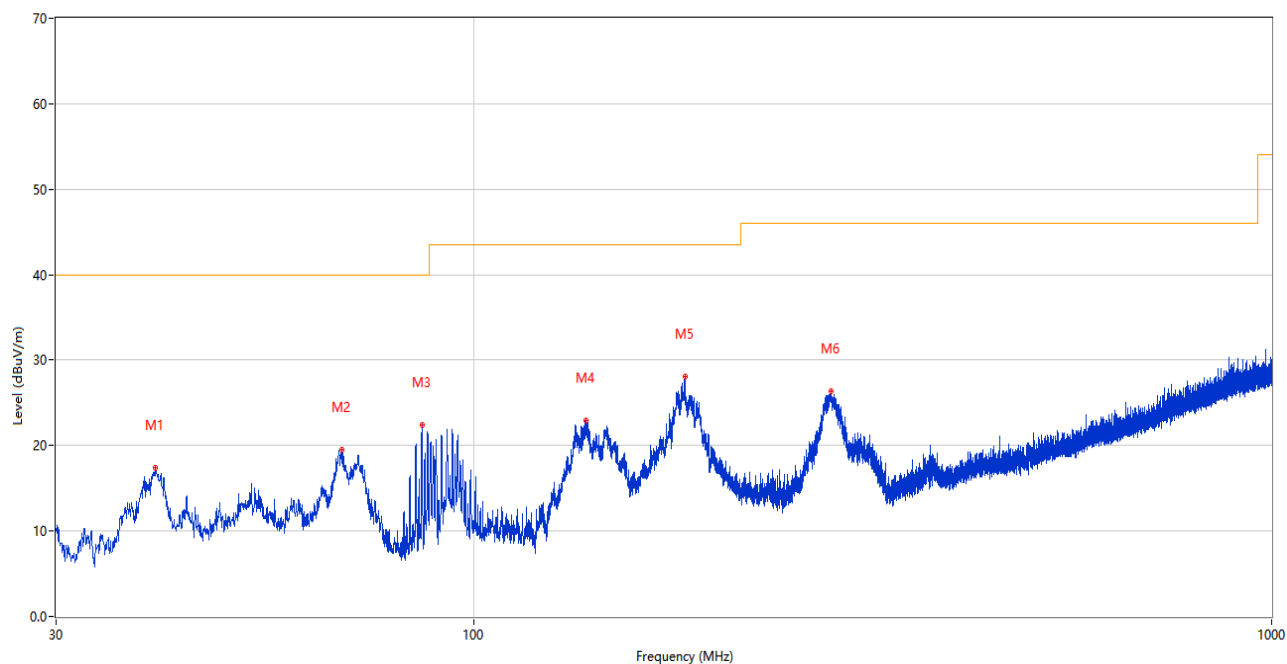
Test Mode 4

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	32.474	29.33	-28.69	40.0	10.67	Peak	148.00	100	Vertical	Pass
2	38.510	29.92	-25.71	40.0	10.08	Peak	266.00	106	Vertical	N/A
2*	38.510	27.22	-25.71	40.0	12.78	QP	266.00	106	Vertical	Pass
3	66.326	30.22	-28.11	40.0	9.78	Peak	143.00	100	Vertical	Pass
4	94.990	34.70	-27.62	43.5	8.80	Peak	337.00	100	Vertical	Pass
5	140.919	31.18	-30.24	43.5	12.32	Peak	248.00	100	Vertical	Pass
6	178.944	29.88	-28.48	43.5	13.62	Peak	339.00	100	Vertical	Pass

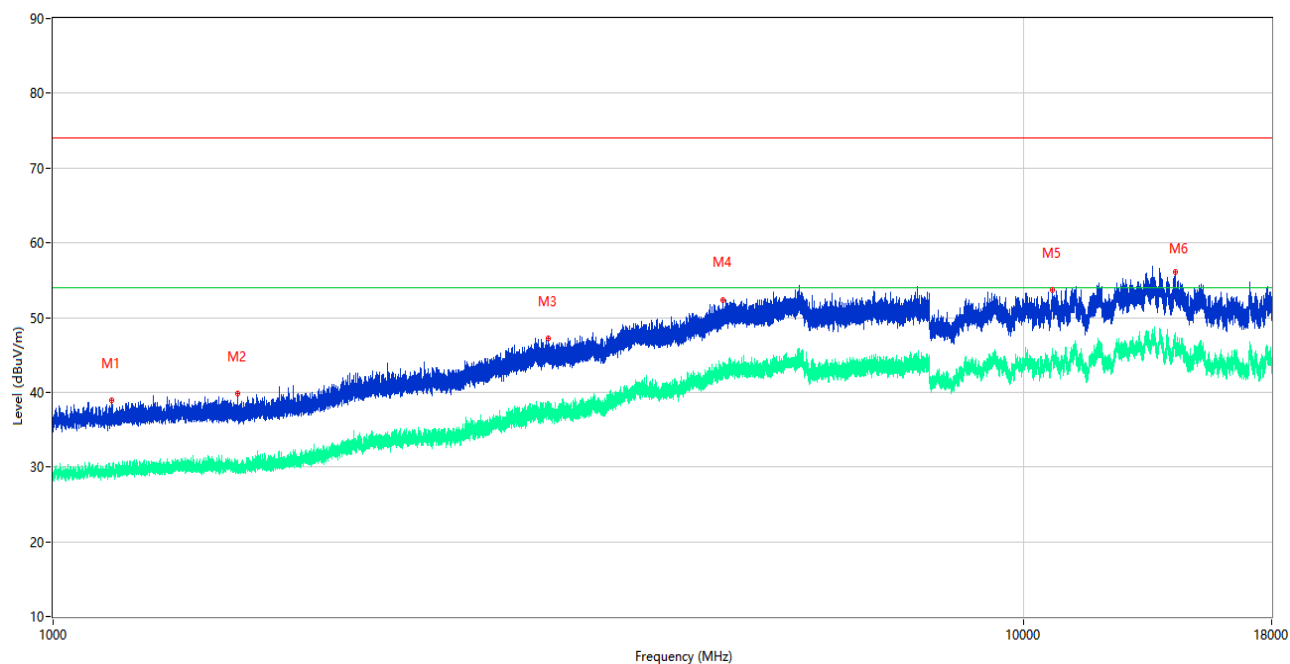
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.943	17.43	-27.23	40.0	22.57	Peak	68.00	200	Horizontal	Pass
2	68.364	19.55	-28.31	40.0	20.45	Peak	116.00	200	Horizontal	Pass
3	86.212	22.43	-29.75	40.0	17.57	Peak	88.00	200	Horizontal	Pass
4	138.446	22.98	-30.28	43.5	20.52	Peak	8.00	200	Horizontal	Pass
5	183.939	28.10	-27.77	43.5	15.40	Peak	59.00	200	Horizontal	Pass
6	280.211	26.43	-24.16	46.0	19.57	Peak	70.00	100	Horizontal	Pass

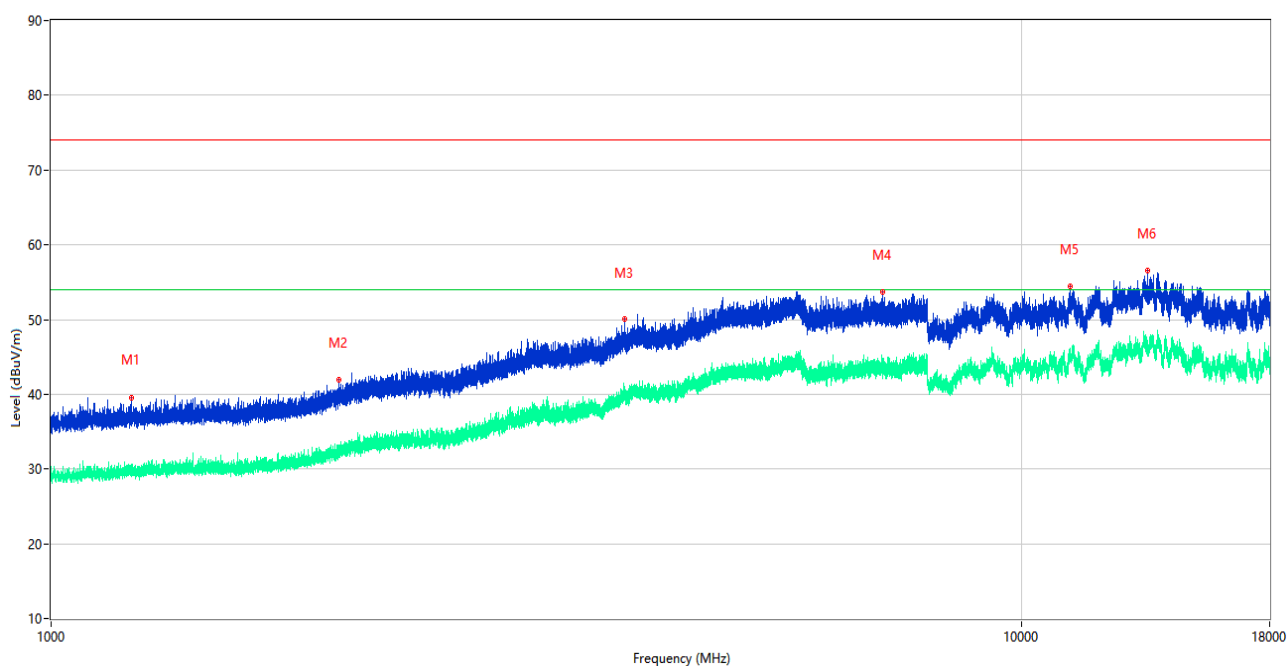
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	1148.980	38.92	-15.79	74.0	35.08	Peak	171.00	100	Vertical	Pass
1**	1148.980	29.86	-15.79	54.0	24.14	AV	171.00	100	Vertical	Pass
2	1547.950	39.81	-15.67	74.0	34.19	Peak	125.00	100	Vertical	Pass
2**	1547.950	29.58	-15.67	54.0	24.42	AV	125.00	100	Vertical	Pass
3	3237.430	47.19	-5.84	74.0	26.81	Peak	91.00	100	Vertical	Pass
3**	3237.430	37.39	-5.84	54.0	16.61	AV	91.00	100	Vertical	Pass
4	4903.060	52.41	0.76	74.0	21.59	Peak	316.00	100	Vertical	Pass
4**	4903.060	43.04	0.76	54.0	10.96	AV	316.00	100	Vertical	Pass
5	10700.000	53.72	1.59	74.0	20.28	Peak	219.00	100	Vertical	Pass
5**	10700.000	45.02	1.59	54.0	8.98	AV	219.00	100	Vertical	Pass
6	14336.500	56.06	4.25	74.0	17.94	Peak	338.00	100	Vertical	Pass
6**	14336.500	44.86	4.25	54.0	9.14	AV	338.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

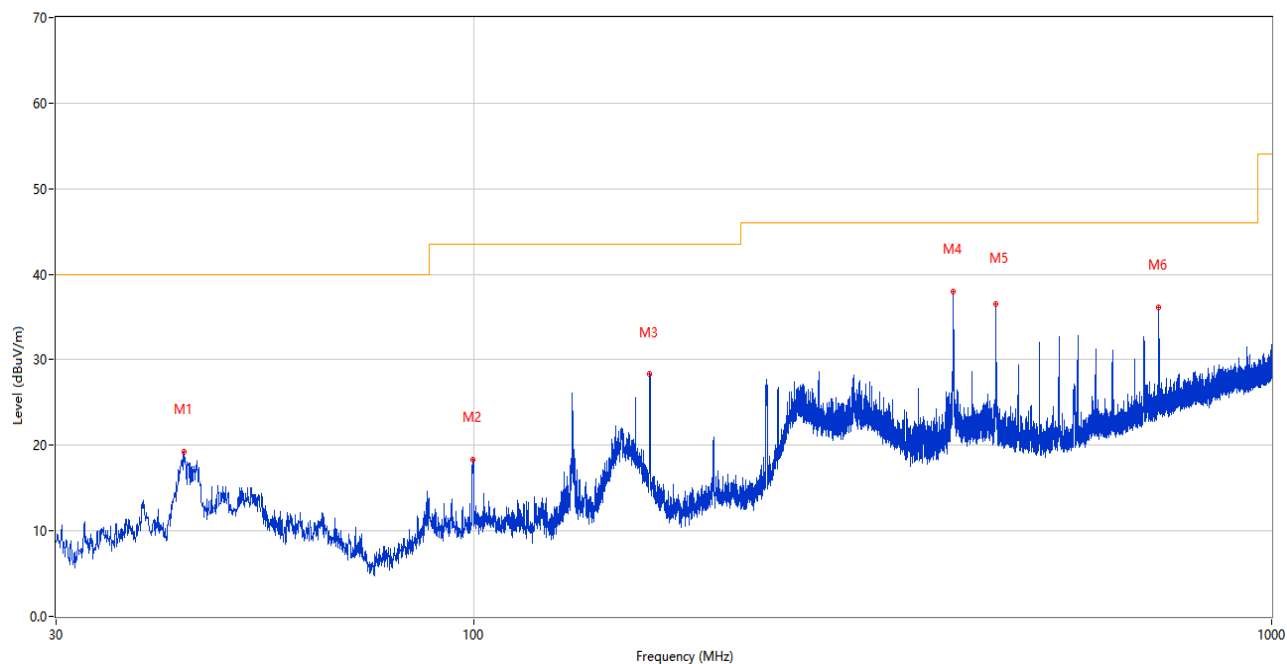


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1211.120	39.60	-15.80	74.0	34.40	Peak	306.00	100	Horizontal	Pass
1**	1211.120	30.54	-15.80	54.0	23.46	AV	306.00	100	Horizontal	Pass
2	1979.550	41.94	-13.31	74.0	32.06	Peak	81.00	100	Horizontal	Pass
2**	1979.550	32.06	-13.31	54.0	21.94	AV	81.00	100	Horizontal	Pass
3	3897.440	50.07	-2.64	74.0	23.93	Peak	304.00	100	Horizontal	Pass
3**	3897.440	39.26	-2.64	54.0	14.74	AV	304.00	100	Horizontal	Pass
4	7182.040	53.72	-0.62	74.0	20.28	Peak	71.00	100	Horizontal	Pass
4**	7182.040	43.17	-0.62	54.0	10.83	AV	71.00	100	Horizontal	Pass
5	11205.000	54.48	2.20	74.0	19.52	Peak	75.00	100	Horizontal	Pass
5**	11205.000	44.94	2.20	54.0	9.06	AV	75.00	100	Horizontal	Pass
6	13470.000	56.53	4.04	74.0	17.47	Peak	88.00	100	Horizontal	Pass
6**	13470.000	45.62	4.04	54.0	8.38	AV	88.00	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	/		☒

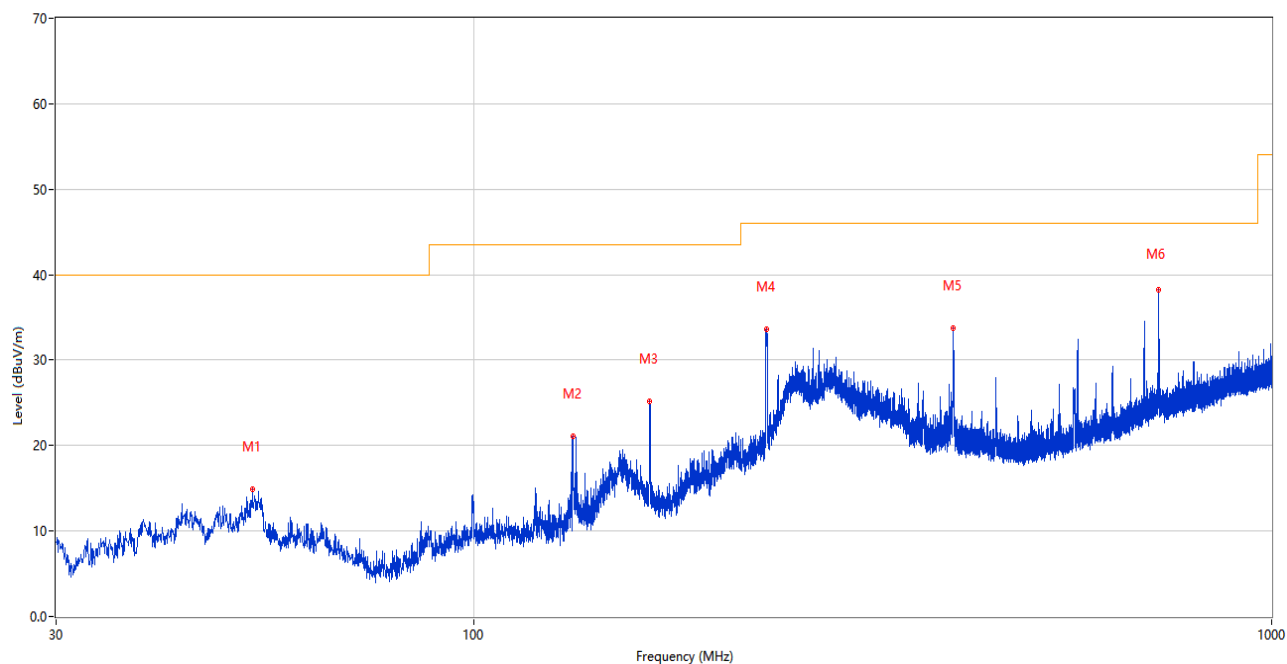
Test Mode

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	43.386	19.22	-25.28	40.0	20.78	Peak	41.00	100	Vertical	Pass
2	99.937	18.34	-26.67	43.5	25.16	Peak	129.00	100	Vertical	Pass
3	166.139	28.29	-29.06	43.5	15.21	Peak	12.00	100	Vertical	Pass
4	398.697	37.94	-21.09	46.0	8.06	Peak	144.00	100	Vertical	Pass
5	451.271	36.51	-19.88	46.0	9.49	Peak	155.00	100	Vertical	Pass
6	722.192	36.17	-13.49	46.0	9.83	Peak	142.00	200	Vertical	Pass

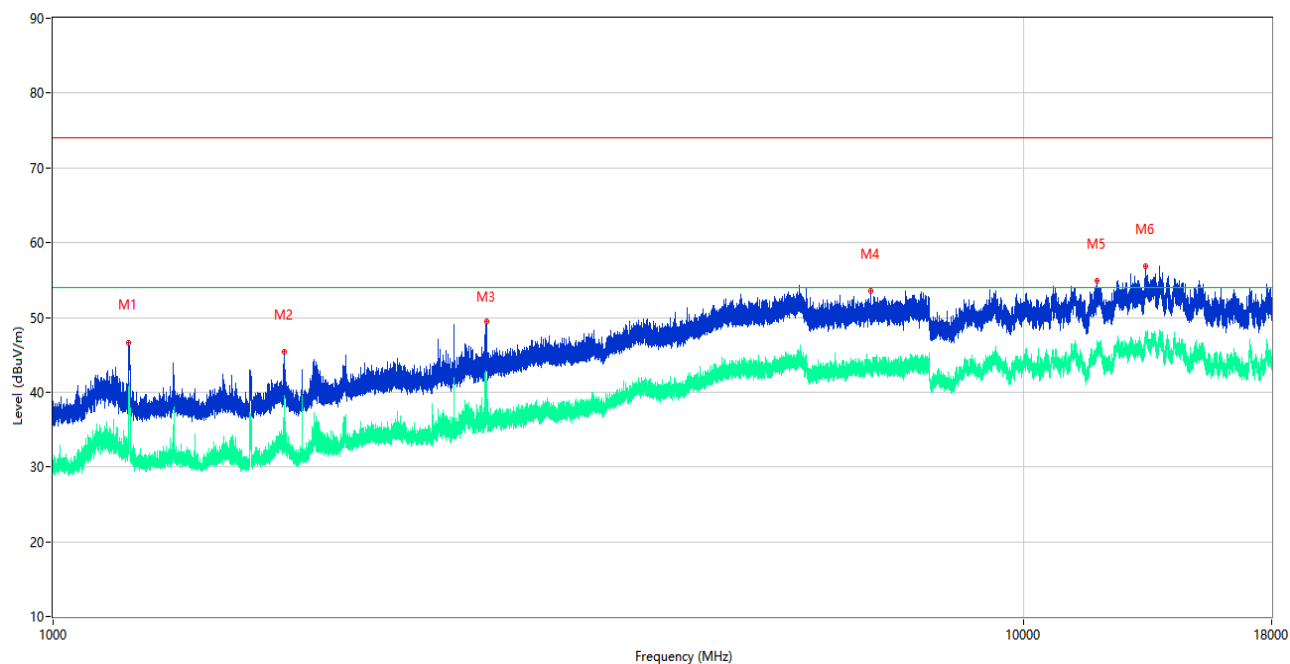
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.892	14.84	-25.38	40.0	25.16	Peak	214.00	100	Horizontal	Pass
2	133.111	21.09	-29.98	43.5	22.41	Peak	271.00	100	Horizontal	Pass
3	166.139	25.14	-29.06	43.5	18.36	Peak	122.00	100	Horizontal	Pass
4	233.215	33.66	-25.41	46.0	12.34	Peak	60.00	100	Horizontal	Pass
5	398.552	33.73	-21.07	46.0	12.27	Peak	208.00	100	Horizontal	Pass
6	722.095	38.17	-13.48	46.0	7.83	Peak	112.00	100	Horizontal	Pass

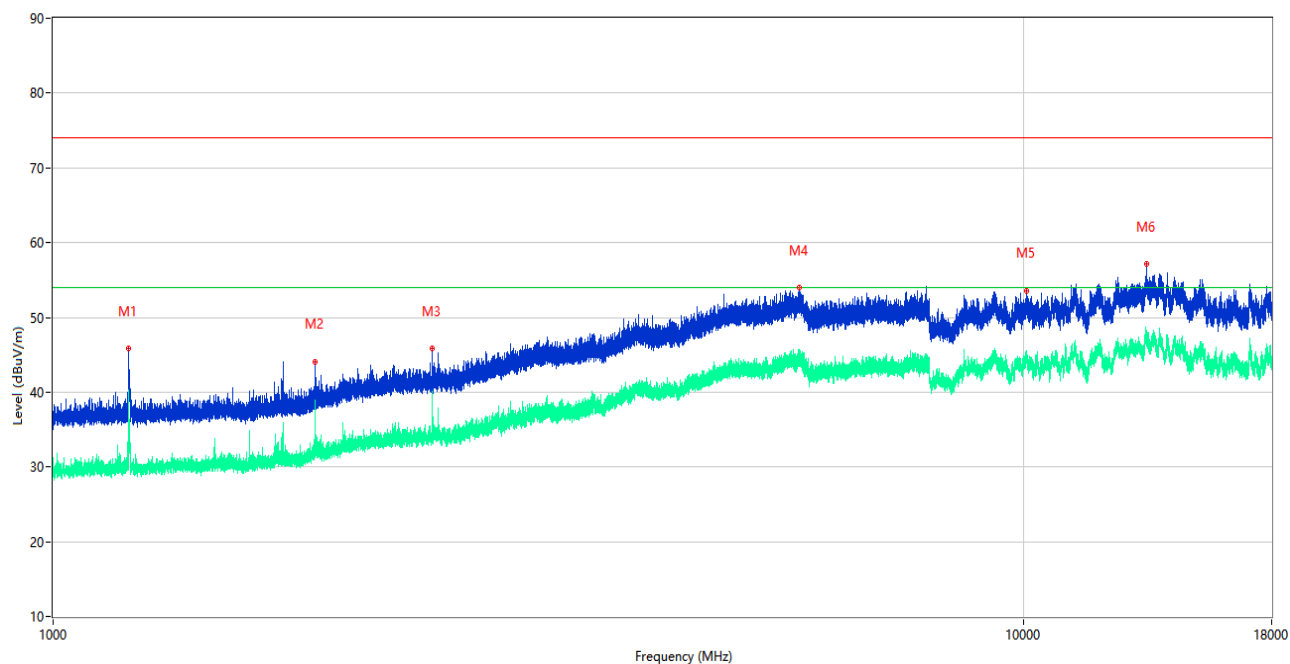
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	1195.650	46.66	-15.73	74.0	27.34	Peak	201.00	100	Vertical	Pass
1**	1195.650	40.68	-15.73	54.0	13.32	AV	201.00	100	Vertical	Pass
2	1728.650	45.37	-15.52	74.0	28.63	Peak	196.00	100	Vertical	Pass
2**	1728.650	32.84	-15.52	54.0	21.16	AV	196.00	100	Vertical	Pass
3	2794.390	49.43	-8.36	74.0	24.57	Peak	158.00	100	Vertical	Pass
3**	2794.390	40.73	-8.36	54.0	13.27	AV	158.00	100	Vertical	Pass
4	6950.600	53.54	-0.56	74.0	20.46	Peak	202.00	100	Vertical	Pass
4**	6950.600	43.20	-0.56	54.0	10.80	AV	202.00	100	Vertical	Pass
5	11887.000	54.89	2.20	74.0	19.11	Peak	130.00	100	Vertical	Pass
5**	11887.000	45.22	2.20	54.0	8.78	AV	130.00	100	Vertical	Pass
6	13356.500	56.85	5.19	74.0	17.15	Peak	0.00	100	Vertical	Pass
6**	13356.500	47.35	5.19	54.0	6.65	AV	0.00	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	1196.170	45.83	-15.68	74.0	28.17	Peak	141.00	100	Horizontal	Pass
1**	1196.170	32.26	-15.68	54.0	21.74	AV	141.00	100	Horizontal	Pass
2	1860.080	44.10	-14.52	74.0	29.90	Peak	184.00	100	Horizontal	Pass
2**	1860.080	31.59	-14.52	54.0	22.41	AV	184.00	100	Horizontal	Pass
3	2458.210	45.82	-10.90	74.0	28.18	Peak	309.00	100	Horizontal	Pass
3**	2458.210	37.75	-10.90	54.0	16.25	AV	309.00	100	Horizontal	Pass
4	5864.900	54.02	2.41	74.0	19.98	Peak	47.00	100	Horizontal	Pass
4**	5864.900	45.39	2.41	54.0	8.61	AV	47.00	100	Horizontal	Pass
5	10059.000	53.61	2.39	74.0	20.39	Peak	10.00	100	Horizontal	Pass
5**	10059.000	44.59	2.39	54.0	9.41	AV	10.00	100	Horizontal	Pass
6	13381.500	57.17	5.02	74.0	16.83	Peak	63.00	100	Horizontal	Pass
6**	13381.500	46.46	5.02	54.0	7.54	AV	63.00	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	/		☒

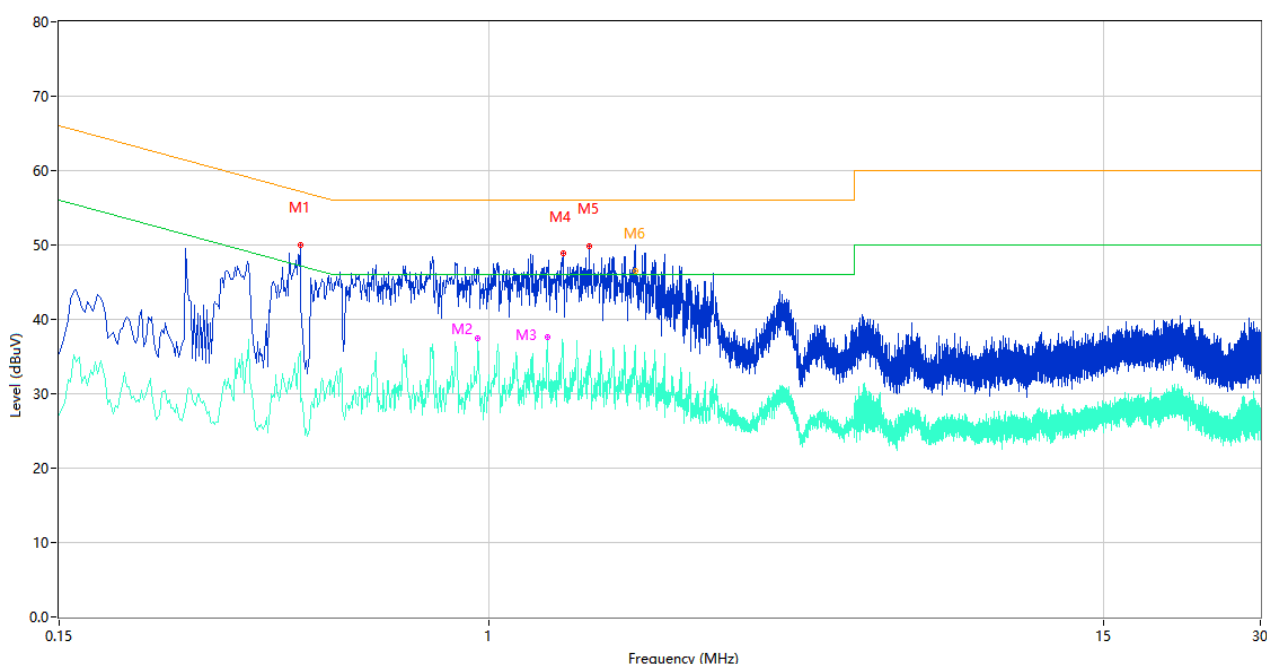
A.2 Conducted Emission, AC Ports

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.	S08	Temperature	22.4℃
Humidity	43%RH	Pressure	101kPa
Test Engineer	Yang Panxia	Test Date	2025.02.06

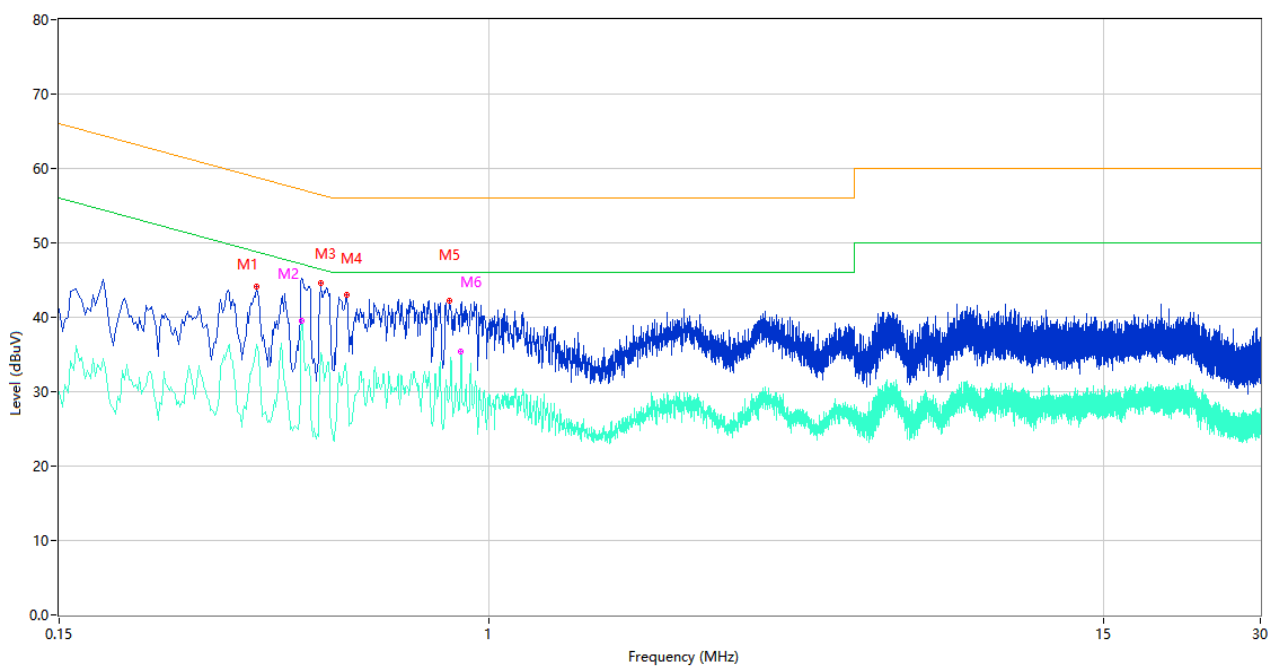
Test Mode 4

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.434	50.08	10.19	57.18	7.10	Peak	L	Pass
1**	0.434	35.73	10.19	47.18	11.45	AV	L	Pass
2	0.950	46.97	10.06	56.00	9.03	Peak	L	Pass
2**	0.950	37.48	10.06	46.00	8.52	AV	L	Pass
3	1.290	46.93	10.50	56.00	9.07	Peak	L	Pass
3**	1.290	37.62	10.50	46.00	8.38	AV	L	Pass
4	1.386	48.90	9.80	56.00	7.10	Peak	L	Pass
4**	1.386	35.98	9.80	46.00	10.02	AV	L	Pass
5	1.556	49.89	10.11	56.00	6.11	Peak	L	Pass
5**	1.556	34.78	10.11	46.00	11.22	AV	L	Pass
6	1.902	49.36	10.70	56.00	6.64	Peak	L	N/A
6*	1.902	46.45	10.70	56.00	9.55	QP	L	Pass

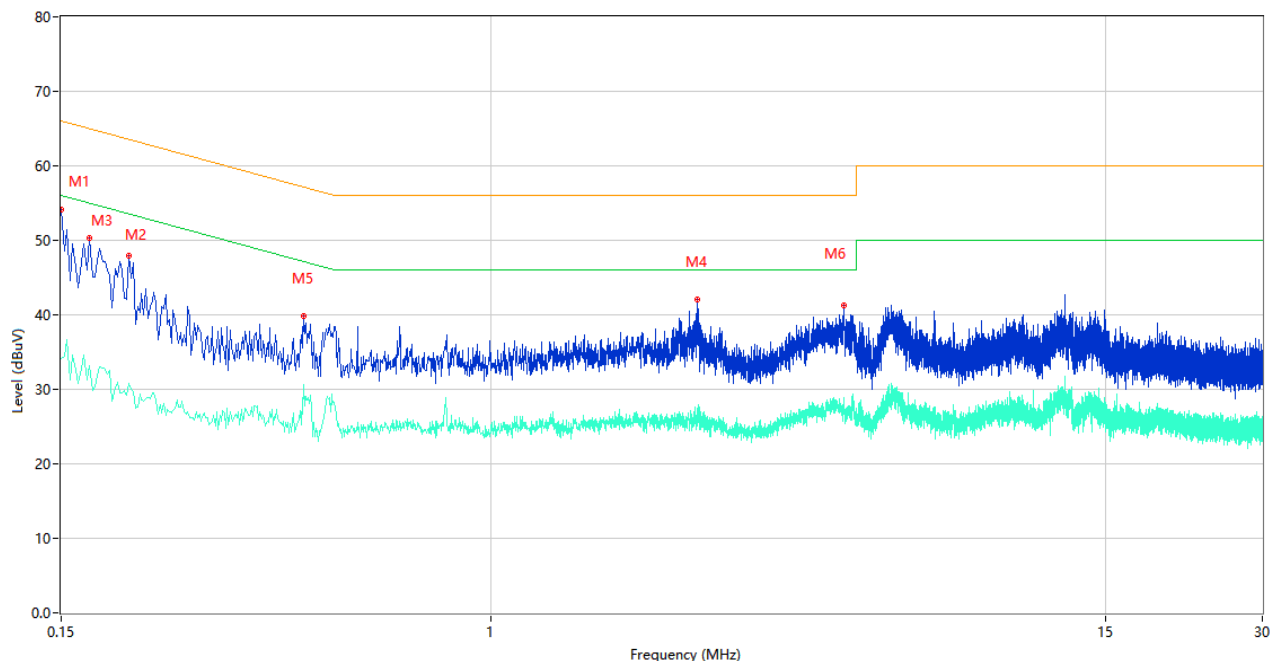
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.358	44.07	10.73	58.77	14.70	Peak	N	Pass
1**	0.358	36.37	10.73	48.77	12.40	AV	N	Pass
2	0.438	45.21	10.15	57.10	11.89	Peak	N	Pass
2**	0.438	39.58	10.15	47.10	7.52	AV	N	Pass
3	0.476	44.55	10.00	56.41	11.86	Peak	N	Pass
3**	0.476	35.27	10.00	46.41	11.14	AV	N	Pass
4	0.534	42.97	10.01	56.00	13.03	Peak	N	Pass
4**	0.534	32.36	10.01	46.00	13.64	AV	N	Pass
5	0.838	42.17	10.60	56.00	13.83	Peak	N	Pass
5**	0.838	29.10	10.60	46.00	16.90	AV	N	Pass
6	0.882	41.64	10.33	56.00	14.36	Peak	N	Pass
6**	0.882	35.34	10.33	46.00	10.66	AV	N	Pass

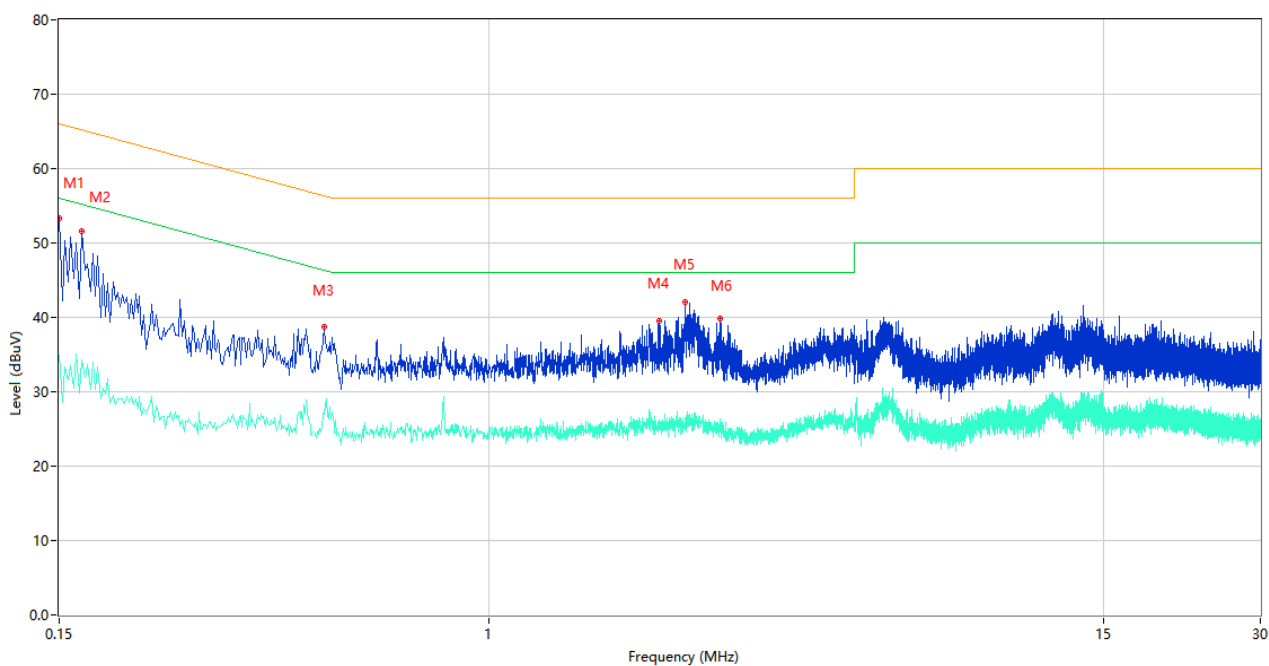
Test Mode 6

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	54.08	9.78	66.00	11.92	Peak	L	Pass
1**	0.150	34.17	9.78	56.00	21.83	AV	L	Pass
2	0.202	47.94	9.77	63.53	15.59	Peak	L	Pass
2**	0.202	30.76	9.77	53.53	22.77	AV	L	Pass
3	0.170	50.34	9.78	64.96	14.62	Peak	L	Pass
3**	0.170	33.12	9.78	54.96	21.84	AV	L	Pass
4	2.486	42.14	10.17	56.00	13.86	Peak	L	Pass
4**	2.486	27.49	10.17	46.00	18.51	AV	L	Pass
5	0.438	39.90	10.15	57.10	17.20	Peak	L	Pass
5**	0.438	30.63	10.15	47.10	16.47	AV	L	Pass
6	4.728	41.20	10.12	56.00	14.80	Peak	L	Pass
6**	4.728	28.83	10.12	46.00	17.17	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	53.27	9.78	66.00	12.73	Peak	N	Pass
1**	0.150	34.97	9.78	56.00	21.03	AV	N	Pass
2	0.166	51.54	9.78	65.16	13.62	Peak	N	Pass
2**	0.166	34.34	9.78	55.16	20.82	AV	N	Pass
3	0.482	38.67	10.00	56.30	17.63	Peak	N	Pass
3**	0.482	27.59	10.00	46.30	18.71	AV	N	Pass
4	2.120	39.52	10.04	56.00	16.48	Peak	N	Pass
4**	2.120	26.26	10.04	46.00	19.74	AV	N	Pass
5	2.368	42.10	10.12	56.00	13.90	Peak	N	Pass
5**	2.368	26.01	10.12	46.00	19.99	AV	N	Pass
6	2.764	39.90	10.25	56.00	16.10	Peak	N	Pass
6**	2.764	24.54	10.25	46.00	21.46	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	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-SZ2510972-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2510972-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2510972-AI.PDF”.

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--END OF REPORT--