

TEST REPORT

Applicant: vivo Mobile Communication Co., Ltd.
Address: No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Equipment Type: Mobile Phone
Model Name: V2430
Brand Name: vivo
FCC ID: 2AUCY-V2430
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: Jan. 17, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Qiu Yongjing**Checked by:** Liu Zhenxiang**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jan. 17, 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	6
2.5	Technical Information	7
3	SUMMARY OF TEST RESULTS	8
3.1	Test Standards	8
3.2	Verdict	8
3.3	Test Uncertainty	8
4	GENERAL TEST CONFIGURATIONS	9
4.1	Test Enclosure List	9
4.2	Test Configurations	9
4.3	Test Setups	11
5	TEST ITEMS	13
5.1	Emission Tests	13
ANNEX A	TEST RESULTS	18
A.1	Radiated Emission	18
A.2	Conducted Emission, AC Ports	31
ANNEX B	TEST SETUP PHOTOS	36
ANNEX C	EUT EXTERNAL PHOTOS	36

ANNEX D EUT INTERNAL PHOTOS 36

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	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.2 Manufacturer Information

Manufacturer	vivo Mobile Communication Co., Ltd.
Address	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	V2430
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	MP_0.1
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	BA60
	Serial No.	N/A
	Capacity	Rated Capacity: 5050mAh Typical capacity: 5150mAh
	Rated Voltage	3.85V
	Limit Charge Voltage	4.39V
	Manufacturer	Sunwoda Electronic Co., Ltd.
Ancillary Equipment 2	Adapter 1	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 3	Adapter 2	
	Brand Name	N/A
	Model No.	V1530L0B0-US (US Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 4	Adapter 3	
	Brand Name	N/A
	Model No.	V1530L0B0-UK (UK Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 5	Adapter 4	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 6	Adapter 5	
	Brand Name	N/A
	Model No.	V1530L0B0-TL (TL Plug)
	Serial No.	N/A

	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 7	Adapter 6	
	Brand Name	N/A
	Model No.	V1530L0B0-EU (EU Plug)
	Serial No.	N/A
	Rated Input	100-240V~, 50/60Hz, 0.5A
	Rated Output	5.0V= 3.0A
	Manufacturer	Dongguan Aohai Technology Co., Ltd.
Ancillary Equipment 8	USB Cable	
	Model No.	BK-C-50-B
	Length (Approx.)	1m
Note 1: Letter in () means plug type. Note 2: All adapters are tested, only the worst data of V1530L0B0-UK (UK Plug) 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 2/4/5/7/13/18/19/26/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac (VHT20/40/80) Galileo, BDS, GLONASS, GPS, SBAS, QZSS, 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	Lenovo	N/A	N/A	N/A	N/A	☒
Data connector	HBR	type-c to USB 3.0	N/A	N/A	N/A	☒
USB disk	Sandisk	CZ73-32G	N/A	N/A	32G	☒
TYPE-C Earphone	OPPO	MH156	N/A	1.12m	N/A	☒
Earphone	N/A	N/A	N/A	1.25m	N/A	☒
TF Card	Samsung	MB-MD256KA	N/A	N/A	256G	☒
Wireless Communications Test Set	R&S	CMW500	102318	N/A	Cal. Due 2025.05.08	☒

4.2 Test Configurations

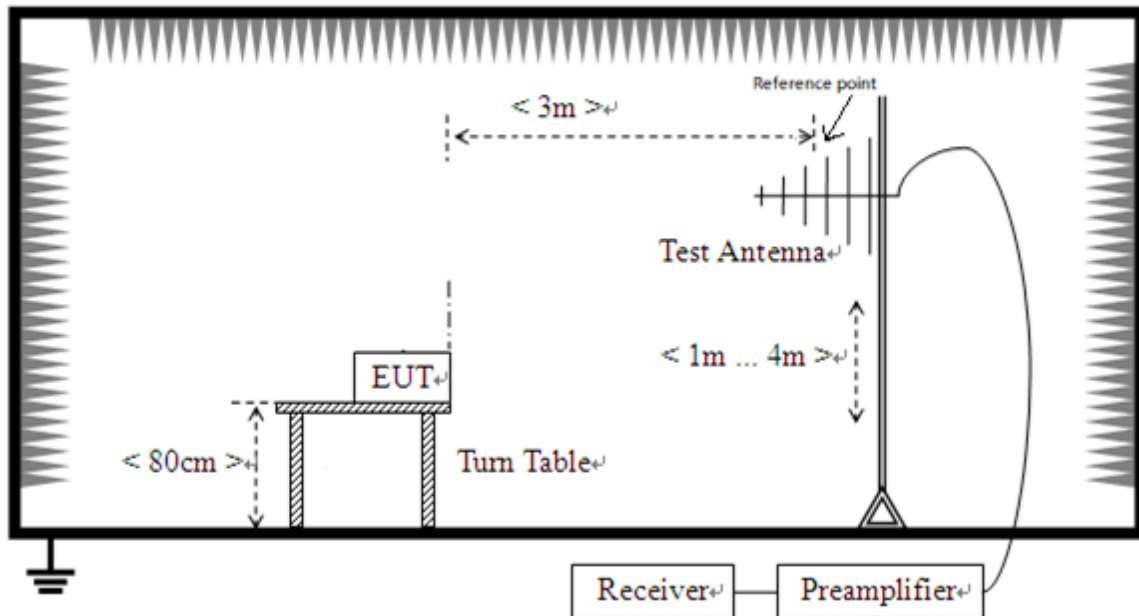
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Only Charing Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 2	<u>The Rear Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 3	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 4	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery + Headset + TF Card
Mode 5	<u>The FM Test Mode</u> EUT + Adapter + USB Cable + Battery + FM RX + Headset + TF Card
Mode 6	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop + Headset + TF Card
Mode 7	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB disk + Headset + TF Card
Mode 8	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery + TF Card

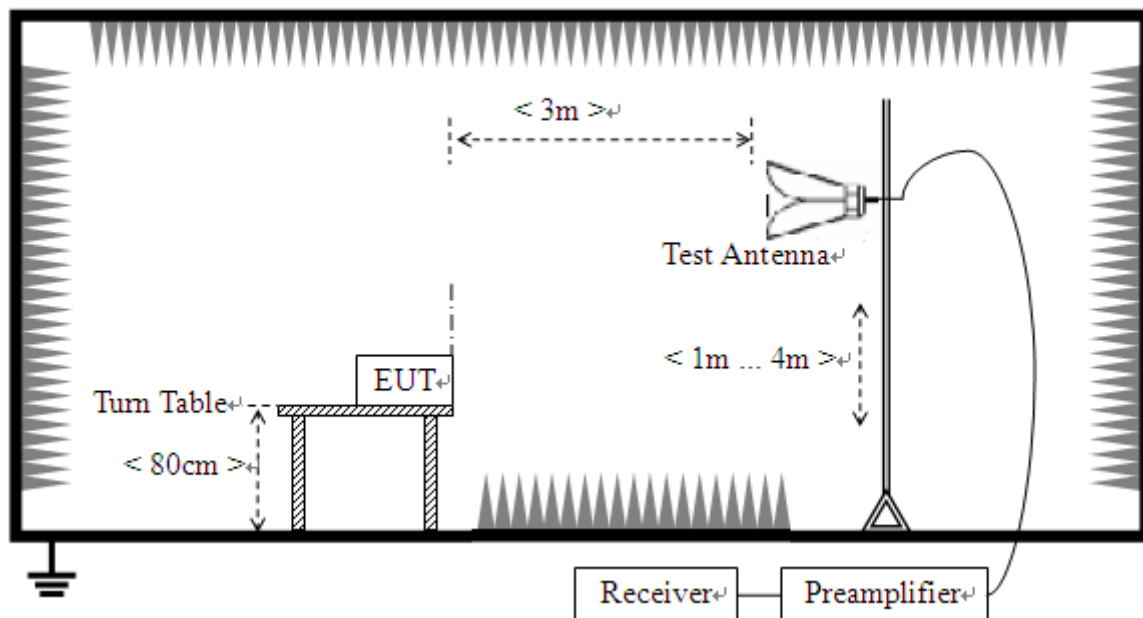
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 8	1, 6
Conducted Emission, AC Ports	Mode 1~Mode 6	1, 6
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

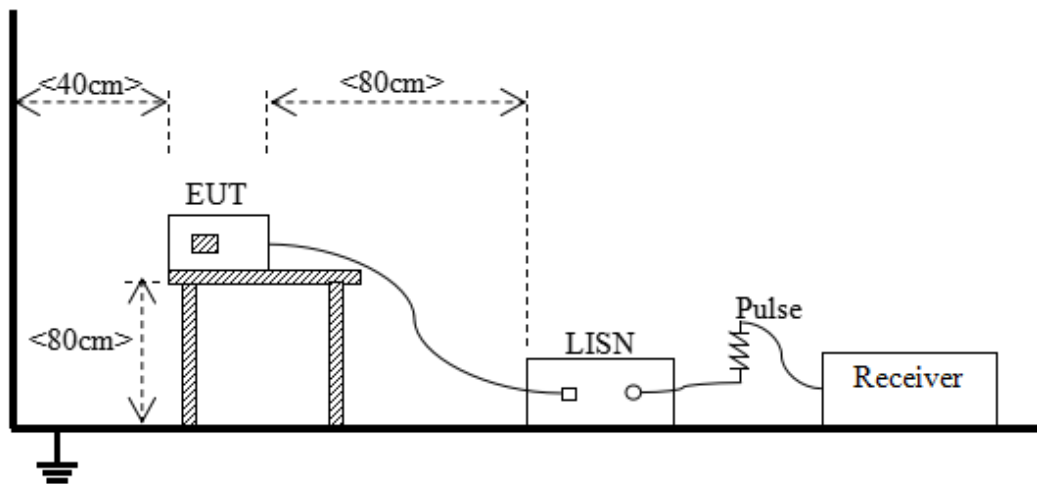
Test Setup 1



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 $\mu\text{V/m}$) = $20 \cdot \log [\text{Field Strength } (\mu\text{V/m})]$.			
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:					
$L_{3m} = L_{10m} + 20 \cdot \log(d_{10m}/d_{3m})$					
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)
$F_X \leq 108 \text{ MHz}$	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.

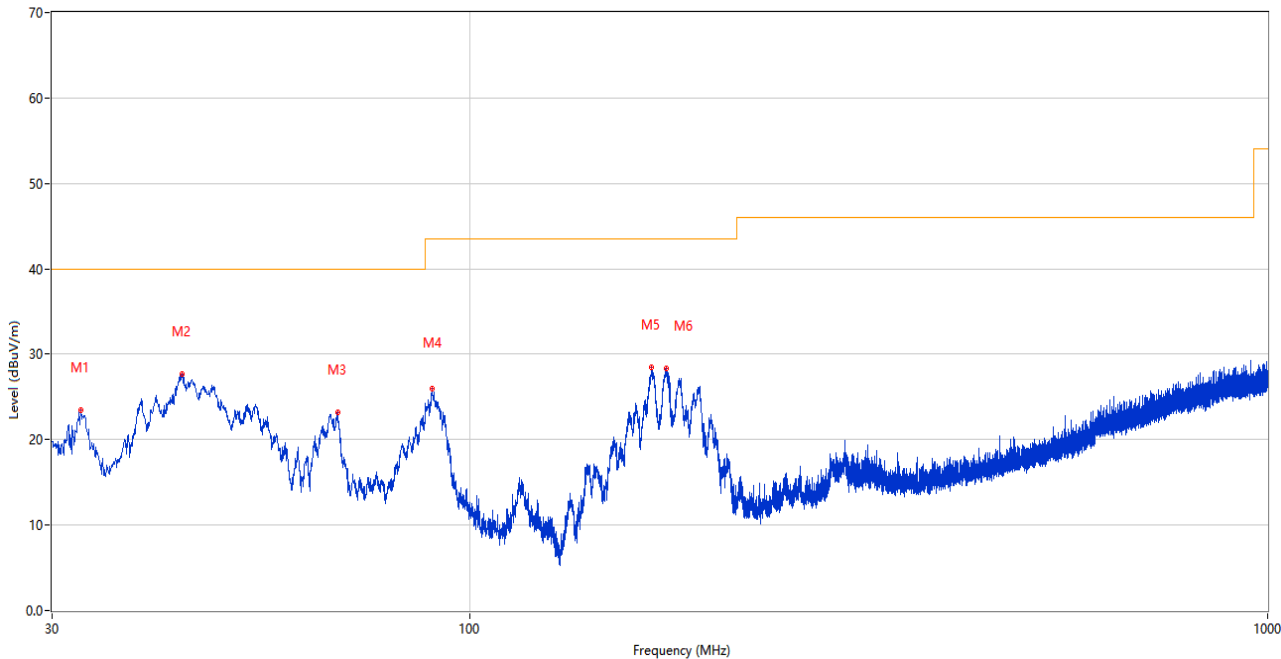
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S01	Temperature	22.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.12.26

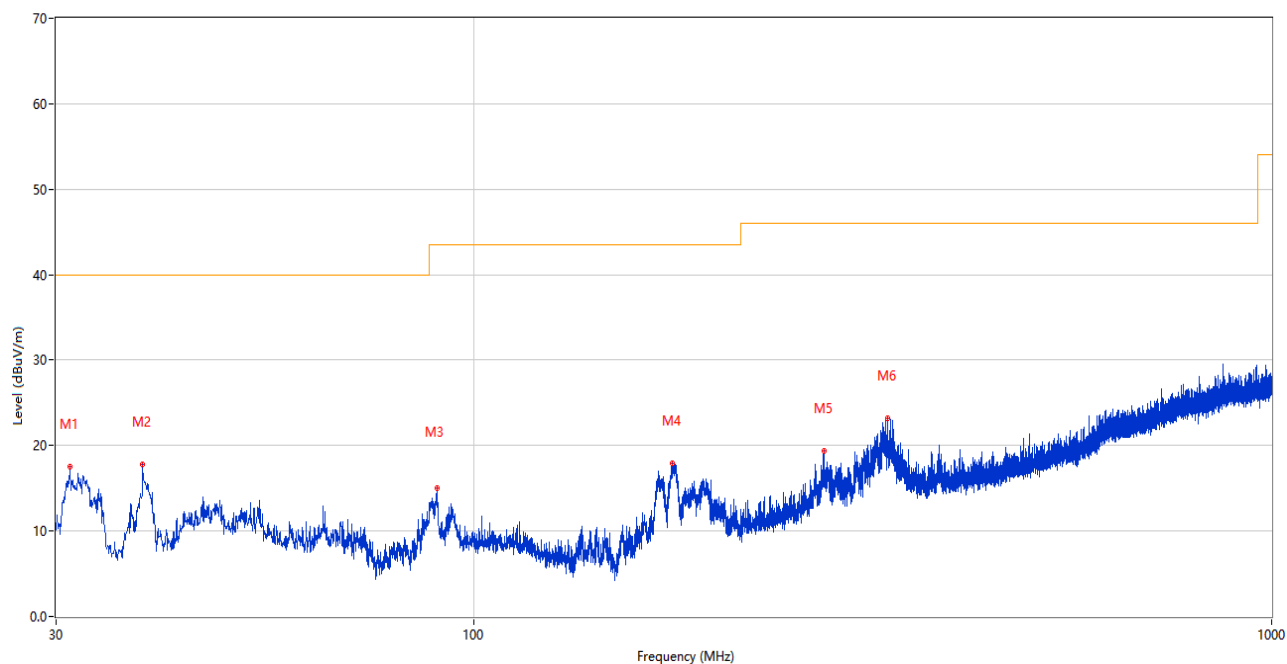
Test Mode 1

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	32.619	23.42	-28.50	40.0	16.58	Peak	19.00	100	Vertical	Pass
2	43.677	27.71	-25.21	40.0	12.29	Peak	28.00	100	Vertical	Pass
3	68.412	23.20	-28.36	40.0	16.80	Peak	118.00	100	Vertical	Pass
4	89.800	25.94	-28.88	43.5	17.56	Peak	195.00	100	Vertical	Pass
5	169.195	28.42	-28.98	43.5	15.08	Peak	259.00	100	Vertical	Pass
6	176.421	28.31	-28.49	43.5	15.19	Peak	236.00	100	Vertical	Pass

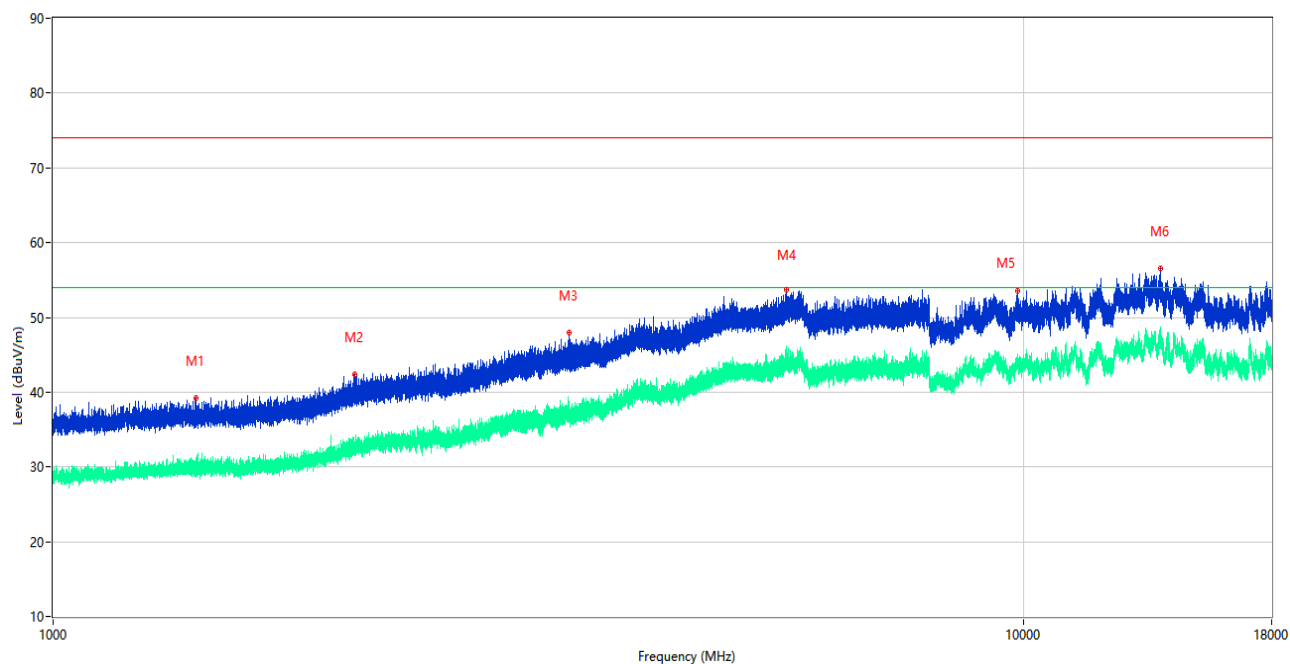
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.212	17.50	-29.78	40.0	22.50	Peak	140.00	100	Horizontal	Pass
2	38.536	17.81	-25.71	40.0	22.19	Peak	238.00	200	Horizontal	Pass
3	89.946	15.08	-28.81	43.5	28.42	Peak	170.00	100	Horizontal	Pass
4	177.440	17.91	-28.38	43.5	25.59	Peak	25.00	200	Horizontal	Pass
5	274.780	19.40	-24.30	46.0	26.60	Peak	210.00	100	Horizontal	Pass
6	330.361	23.17	-22.75	46.0	22.83	Peak	48.00	100	Horizontal	Pass

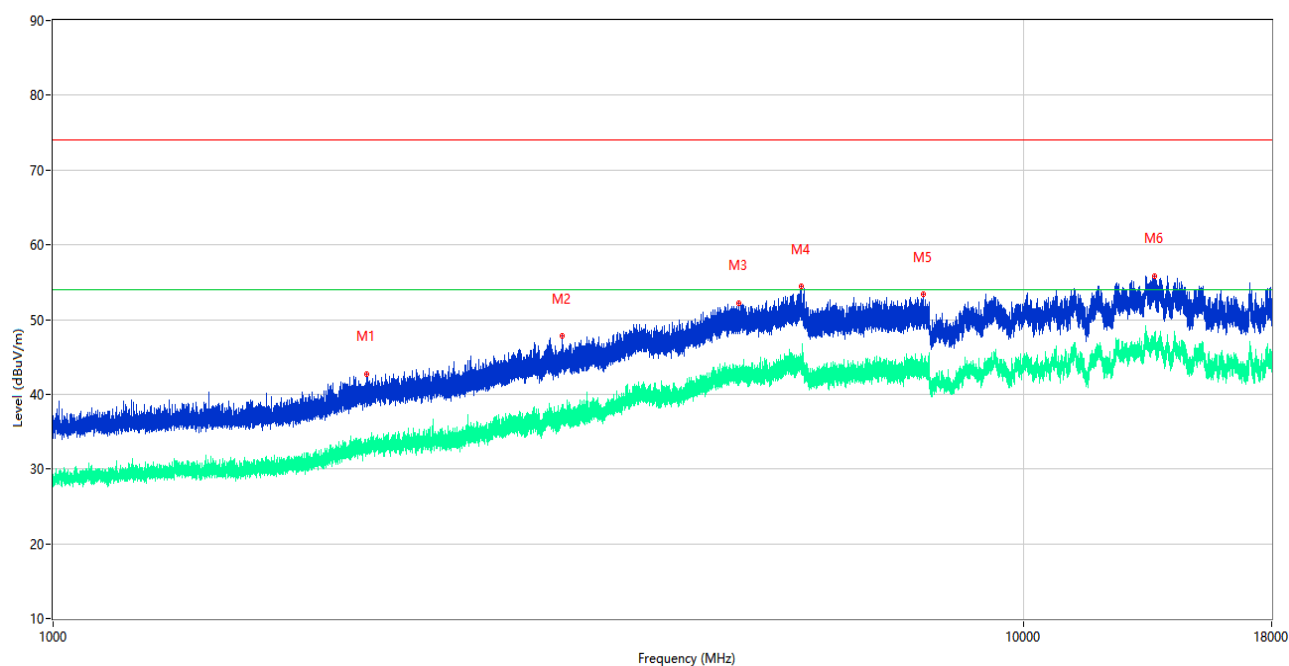
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	1403.910	39.22	-15.38	74.0	34.78	Peak	206.00	100	Vertical	Pass
1**	1403.910	29.62	-15.38	54.0	24.38	AV	206.00	100	Vertical	Pass
2	2045.720	42.41	-12.55	74.0	31.59	Peak	351.00	100	Vertical	Pass
2**	2045.720	32.44	-12.55	54.0	21.56	AV	351.00	100	Vertical	Pass
3	3398.500	47.91	-5.45	74.0	26.09	Peak	284.00	100	Vertical	Pass
3**	3398.500	36.92	-5.45	54.0	17.08	AV	284.00	100	Vertical	Pass
4	5693.740	53.73	0.82	74.0	20.27	Peak	52.00	100	Vertical	Pass
4**	5693.740	44.08	0.82	54.0	9.92	AV	52.00	100	Vertical	Pass
5	9860.500	53.52	0.90	74.0	20.48	Peak	144.00	100	Vertical	Pass
5**	9860.500	44.01	0.90	54.0	9.99	AV	144.00	100	Vertical	Pass
6	13842.500	56.56	5.27	74.0	17.44	Peak	135.00	100	Vertical	Pass
6**	13842.500	46.16	5.27	54.0	7.84	AV	135.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 18 GHz

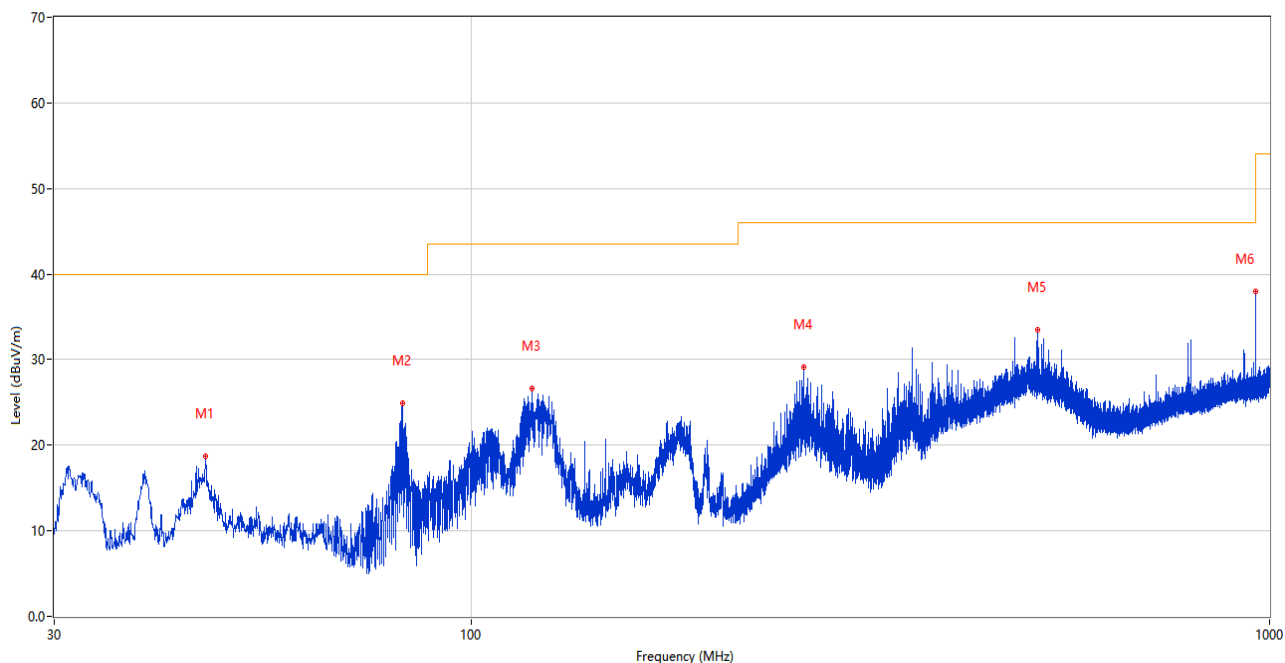


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2103.830	42.77	-12.58	74.0	31.23	Peak	347.00	100	Horizontal	Pass
1**	2103.830	32.57	-12.58	54.0	21.43	AV	347.00	100	Horizontal	Pass
2	3344.420	47.84	-5.38	74.0	26.16	Peak	71.00	100	Horizontal	Pass
2**	3344.420	36.26	-5.38	54.0	17.74	AV	71.00	100	Horizontal	Pass
3	5090.720	52.26	-0.14	74.0	21.74	Peak	211.00	100	Horizontal	Pass
3**	5090.720	42.21	-0.14	54.0	11.79	AV	211.00	100	Horizontal	Pass
4	5897.460	54.49	2.13	74.0	19.51	Peak	129.00	100	Horizontal	Pass
4**	5897.460	44.03	2.13	54.0	9.97	AV	129.00	100	Horizontal	Pass
5	7877.460	53.36	0.63	74.0	20.64	Peak	192.00	100	Horizontal	Pass
5**	7877.460	43.03	0.63	54.0	10.97	AV	192.00	100	Horizontal	Pass
6	13643.000	55.85	5.07	74.0	18.15	Peak	249.00	100	Horizontal	Pass
6**	13643.000	46.66	5.07	54.0	7.34	AV	249.00	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	/		☒

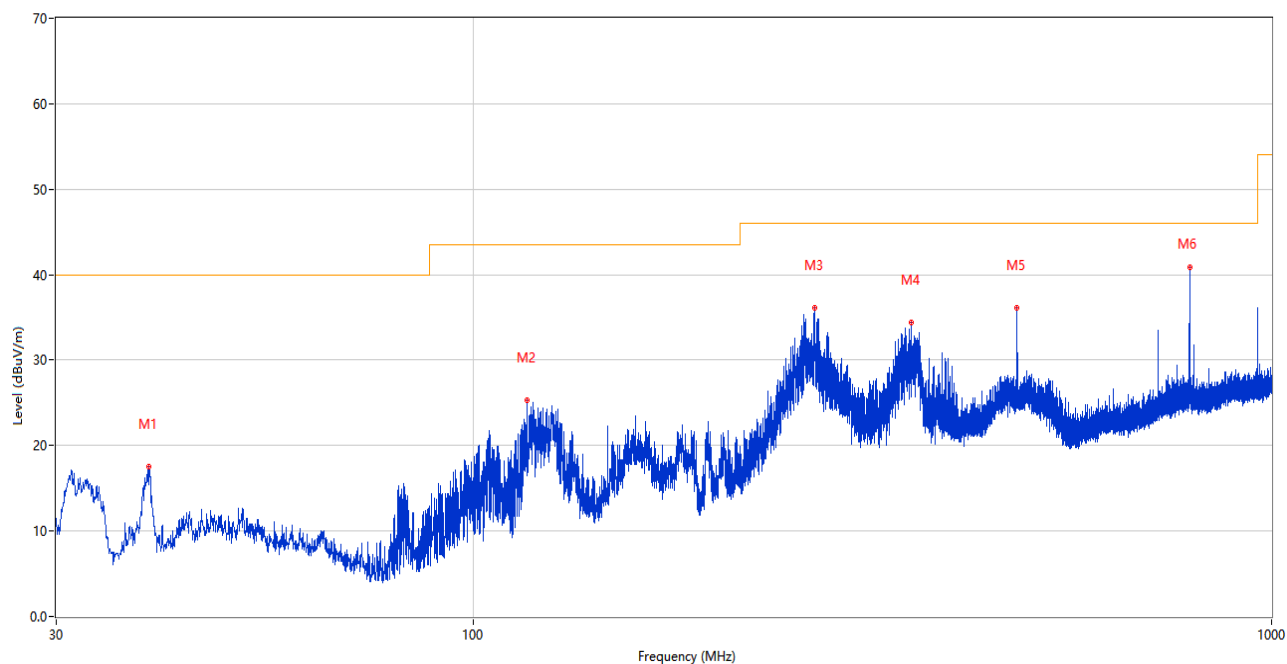
Test Mode 6

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	46.393	18.71	-26.06	40.0	21.29	Peak	56.00	100	Vertical	Pass
2	81.943	24.86	-30.26	40.0	15.14	Peak	94.00	100	Vertical	Pass
3	119.046	26.60	-28.16	43.5	16.90	Peak	360.00	100	Vertical	Pass
4	261.005	29.13	-24.75	46.0	16.87	Peak	214.00	200	Vertical	Pass
5	511.799	33.45	-18.41	46.0	12.55	Peak	260.00	100	Vertical	Pass
6	959.987	37.94	-9.09	46.0	8.06	Peak	45.00	100	Vertical	Pass

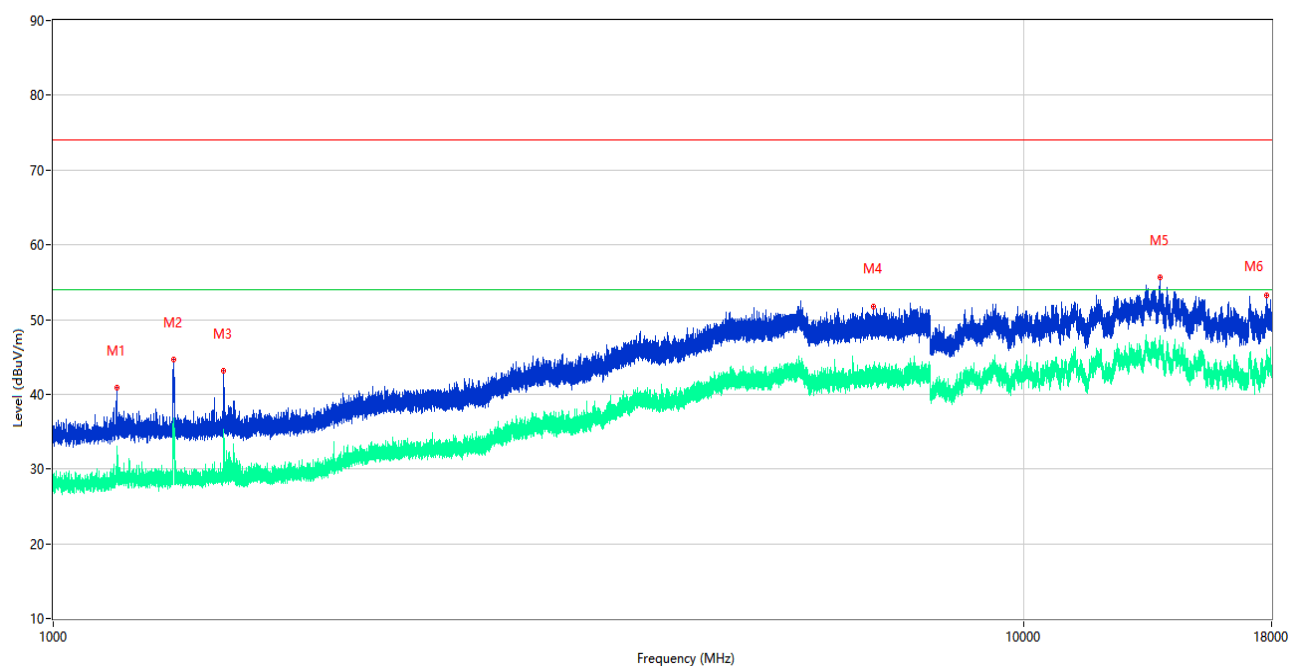
6) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	39.166	17.59	-27.57	40.0	22.41	Peak	168.00	100	Horizontal	Pass
2	116.815	25.35	-27.49	43.5	18.15	Peak	247.00	200	Horizontal	Pass
3	267.844	36.08	-24.53	46.0	9.92	Peak	67.00	100	Horizontal	Pass
4	353.495	34.41	-21.90	46.0	11.59	Peak	60.00	100	Horizontal	Pass
5	480.031	36.17	-19.17	46.0	9.83	Peak	281.00	200	Horizontal	Pass
6	790.383	40.90	-11.89	46.0	5.10	Peak	168.00	100	Horizontal	Pass

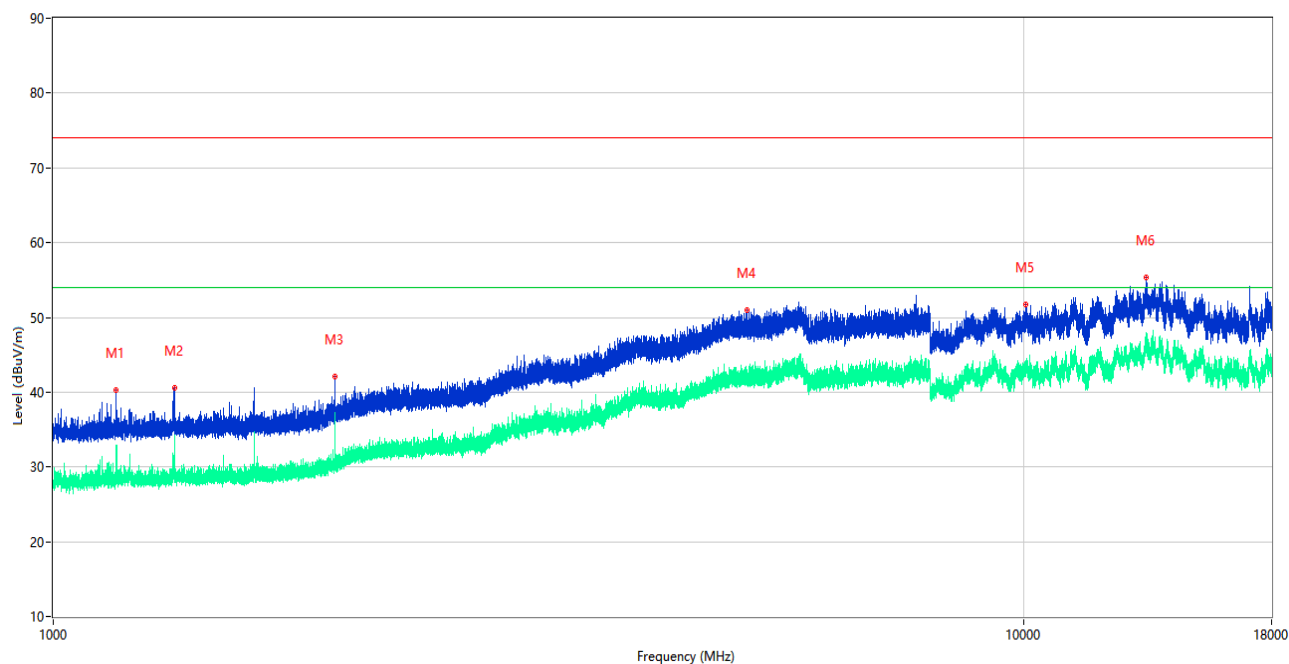
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2024.08.01	2025.07.31	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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	1164.060	40.89	-15.67	74.0	33.11	Peak	90.00	100	Vertical	Pass
1**	1164.060	29.11	-15.67	54.0	24.89	AV	90.00	100	Vertical	Pass
2	1329.550	44.64	-15.70	74.0	29.36	Peak	228.00	100	Vertical	Pass
2**	1329.550	32.55	-15.70	54.0	21.45	AV	228.00	100	Vertical	Pass
3	1498.420	43.10	-15.57	74.0	30.90	Peak	314.00	100	Vertical	Pass
3**	1498.420	30.08	-15.57	54.0	23.92	AV	314.00	100	Vertical	Pass
4	7004.940	51.68	-0.35	74.0	22.32	Peak	157.00	100	Vertical	Pass
4**	7004.940	43.37	-0.35	54.0	10.63	AV	157.00	100	Vertical	Pass
5	13805.000	55.60	5.75	74.0	18.40	Peak	337.00	100	Vertical	Pass
5**	13805.000	46.65	5.75	54.0	7.35	AV	337.00	100	Vertical	Pass
6	17803.500	53.17	2.79	74.0	20.83	Peak	144.00	100	Vertical	Pass
6**	17803.500	44.00	2.79	54.0	10.00	AV	144.00	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	1161.720	40.30	-15.60	74.0	33.70	Peak	142.00	100	Horizontal	Pass
1**	1161.720	28.33	-15.60	54.0	25.67	AV	142.00	100	Horizontal	Pass
2	1332.930	40.59	-15.74	74.0	33.41	Peak	80.00	100	Horizontal	Pass
2**	1332.930	29.21	-15.74	54.0	24.79	AV	80.00	100	Horizontal	Pass
3	1949.780	42.10	-13.47	74.0	31.90	Peak	205.00	100	Horizontal	Pass
3**	1949.780	34.95	-13.47	54.0	19.05	AV	205.00	100	Horizontal	Pass
4	5187.300	50.92	-0.38	74.0	23.08	Peak	197.00	100	Horizontal	Pass
4**	5187.300	41.39	-0.38	54.0	12.61	AV	197.00	100	Horizontal	Pass
5	10040.500	51.70	2.33	74.0	22.30	Peak	154.00	100	Horizontal	Pass
5**	10040.500	42.07	2.33	54.0	11.93	AV	154.00	100	Horizontal	Pass
6	13358.000	55.28	5.18	74.0	18.72	Peak	75.00	100	Horizontal	Pass
6**	13358.000	46.48	5.18	54.0	7.52	AV	75.00	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	/		☒

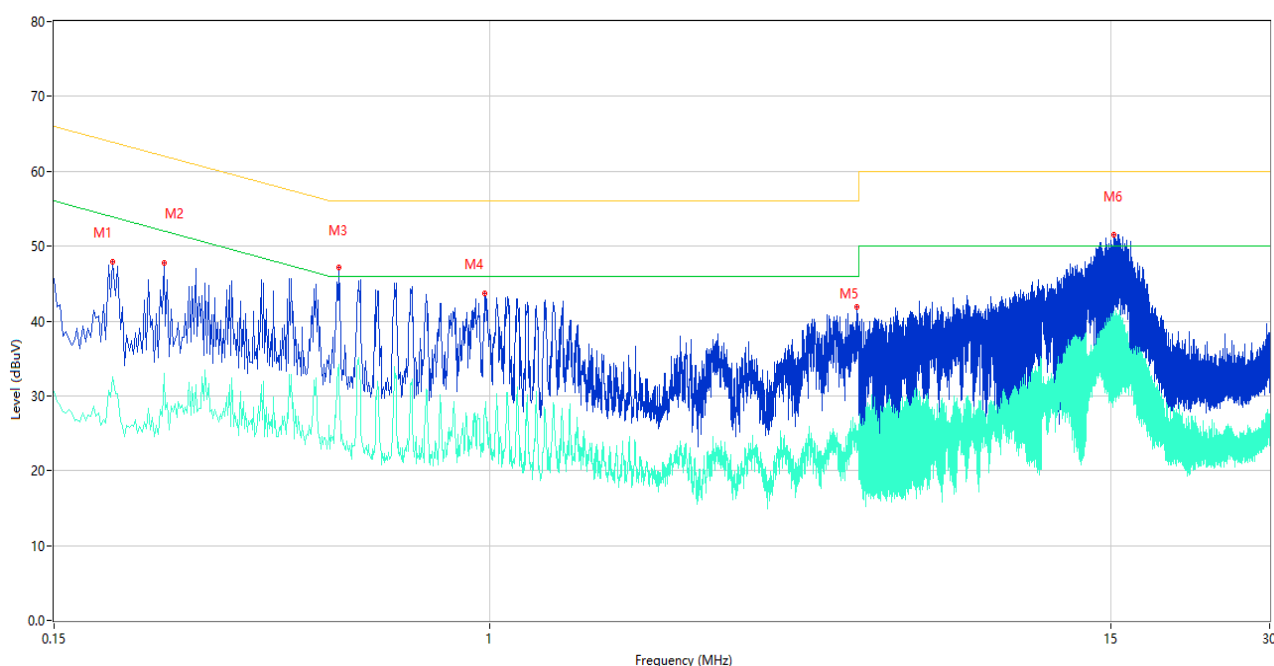
A.2 Conducted Emission, AC Ports

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.	S01	Temperature	22.7℃
Humidity	39%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2025.01.03

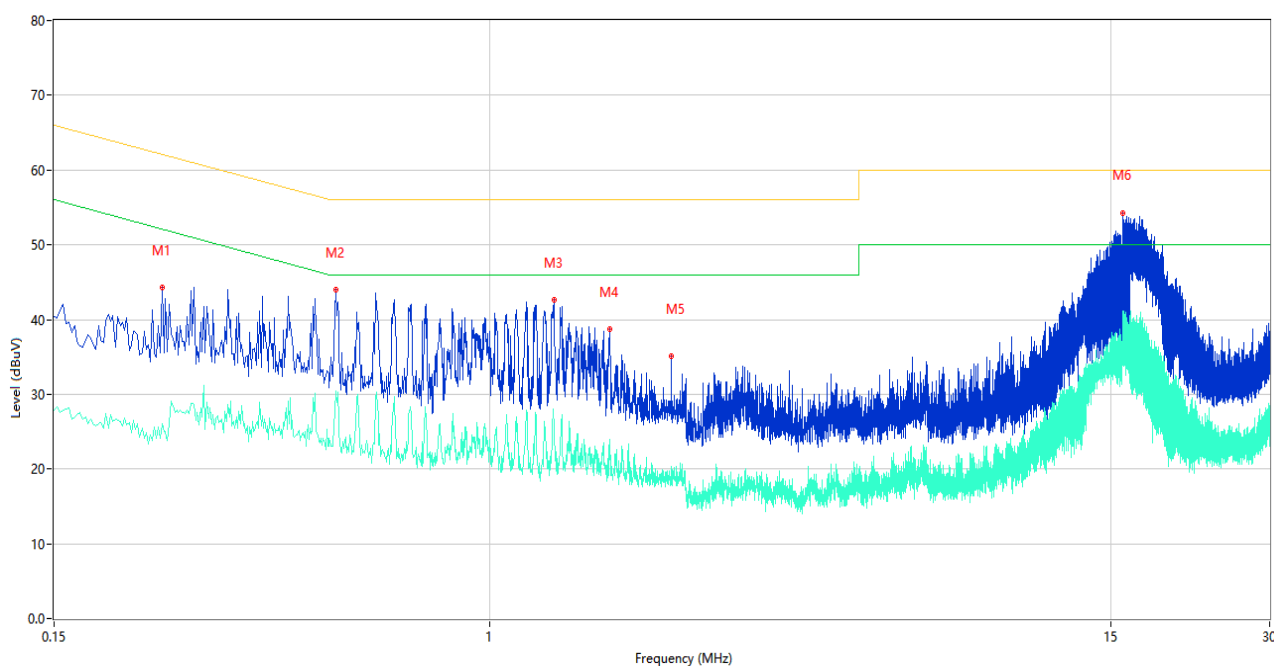
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.194	47.96	10.04	63.86	15.90	Peak	L	Pass
1**	0.194	32.61	10.04	53.86	21.25	AV	L	Pass
2	0.242	47.75	10.03	62.03	14.28	Peak	L	Pass
2**	0.242	33.06	10.03	52.03	18.97	AV	L	Pass
3	0.518	47.15	10.36	56.00	8.85	Peak	L	Pass
3**	0.518	34.21	10.36	46.00	11.79	AV	L	Pass
4	0.982	43.67	10.58	56.00	12.33	Peak	L	Pass
4**	0.982	28.28	10.58	46.00	17.72	AV	L	Pass
5	4.962	41.89	10.94	56.00	14.11	Peak	L	Pass
5**	4.962	24.24	10.94	46.00	21.76	AV	L	Pass
6	15.224	51.58	13.70	60.00	8.42	Peak	L	Pass
6**	15.224	40.43	13.70	50.00	9.57	AV	L	Pass

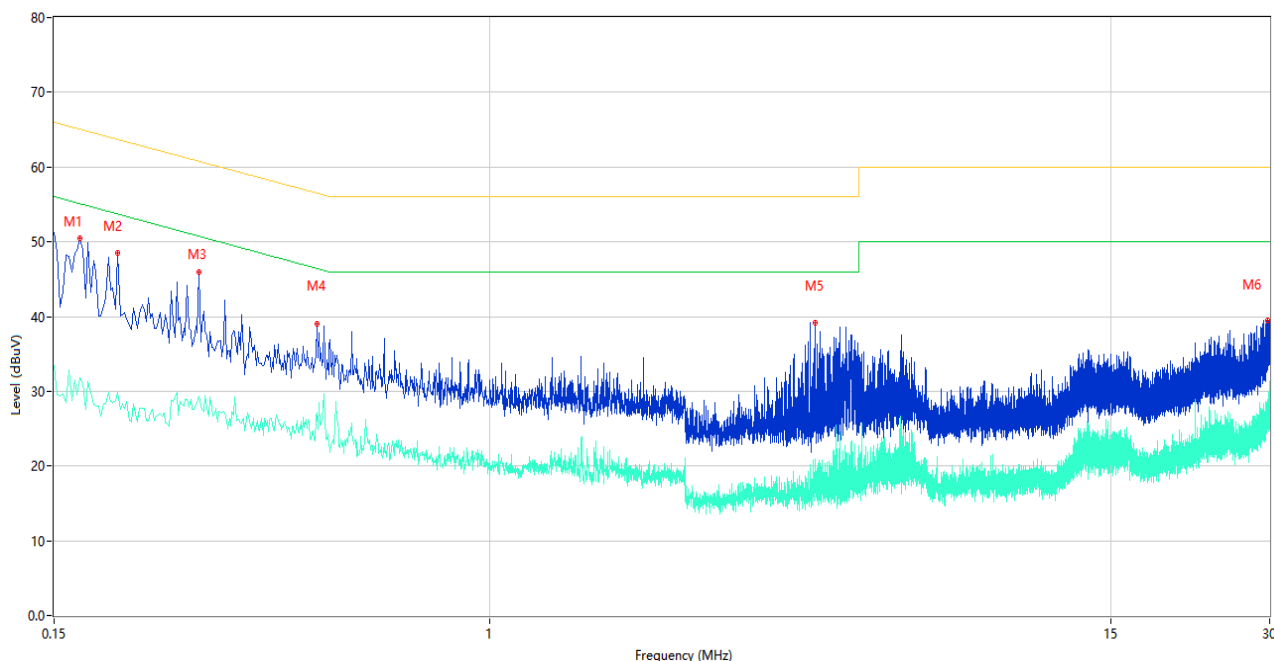
2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.240	44.24	10.03	62.10	17.86	Peak	N	Pass
1**	0.240	26.00	10.03	52.10	26.10	AV	N	Pass
2	0.512	44.01	10.34	56.00	11.99	Peak	N	Pass
2**	0.512	30.36	10.34	46.00	15.64	AV	N	Pass
3	1.326	42.57	10.55	56.00	13.43	Peak	N	Pass
3**	1.326	25.50	10.55	46.00	20.50	AV	N	Pass
4	1.690	38.76	10.54	56.00	17.24	Peak	N	Pass
4**	1.690	22.95	10.54	46.00	23.05	AV	N	Pass
5	2.212	35.16	10.66	56.00	20.84	Peak	N	Pass
5**	2.212	19.04	10.66	46.00	26.96	AV	N	Pass
6	15.818	54.30	13.76	60.00	5.70	Peak	N	Pass
6**	15.818	39.77	13.76	50.00	10.23	AV	N	Pass

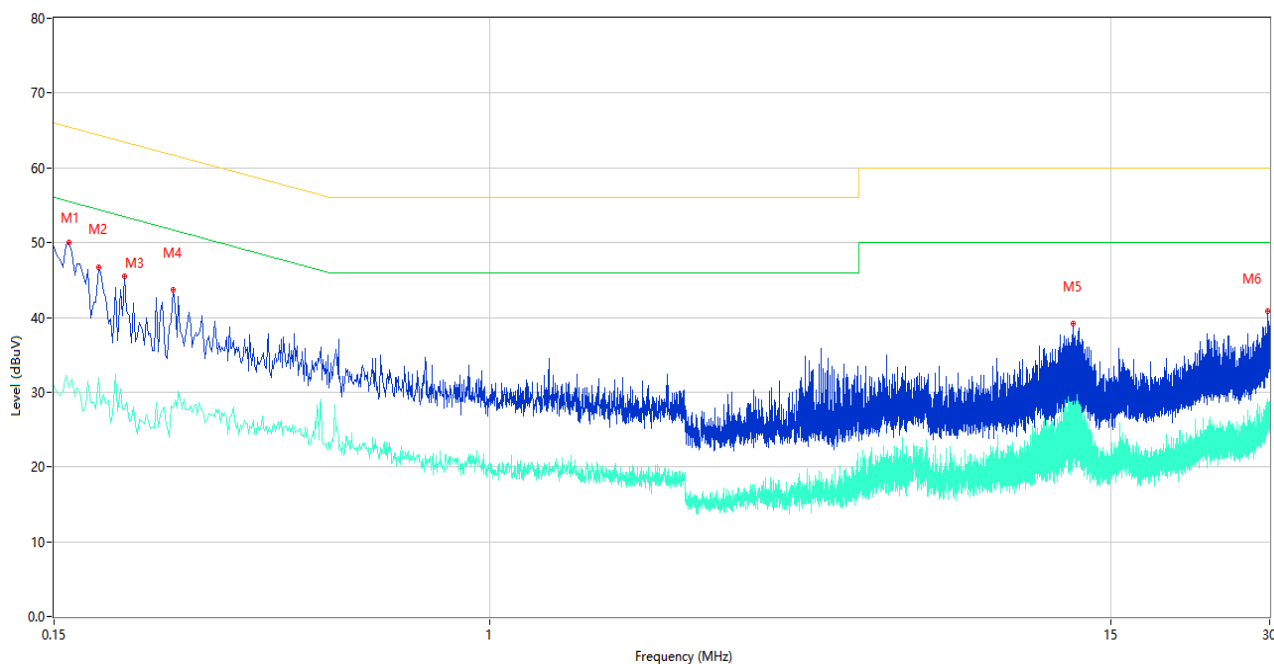
Test Mode 6

3) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	50.46	10.07	65.06	14.60	Peak	L	Pass
1**	0.168	31.81	10.07	55.06	23.25	AV	L	Pass
2	0.198	48.46	10.03	63.69	15.23	Peak	L	Pass
2**	0.198	29.80	10.03	53.69	23.89	AV	L	Pass
3	0.282	45.98	10.04	60.76	14.78	Peak	L	Pass
3**	0.282	29.39	10.04	50.76	21.37	AV	L	Pass
4	0.472	39.07	10.44	56.48	17.41	Peak	L	Pass
4**	0.472	27.14	10.44	46.48	19.34	AV	L	Pass
5	4.134	39.20	11.12	56.00	16.80	Peak	L	Pass
5**	4.134	20.88	11.12	46.00	25.12	AV	L	Pass
6	29.682	39.50	17.13	60.00	20.50	Peak	L	Pass
6**	29.682	27.04	17.13	50.00	22.96	AV	L	Pass

4) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	50.09	10.10	65.46	15.37	Peak	N	Pass
1**	0.160	30.65	10.10	55.46	24.81	AV	N	Pass
2	0.182	46.77	10.05	64.39	17.62	Peak	N	Pass
2**	0.182	31.89	10.05	54.39	22.50	AV	N	Pass
3	0.204	45.50	10.03	63.45	17.95	Peak	N	Pass
3**	0.204	27.69	10.03	53.45	25.76	AV	N	Pass
4	0.252	43.71	10.03	61.69	17.98	Peak	N	Pass
4**	0.252	27.93	10.03	51.69	23.76	AV	N	Pass
5	12.768	39.14	12.76	60.00	20.86	Peak	N	Pass
5**	12.768	26.68	12.76	50.00	23.32	AV	N	Pass
6	29.788	40.89	17.29	60.00	19.11	Peak	N	Pass
6**	29.788	26.18	17.29	50.00	23.82	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-SZ24C1274-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ24C1274-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ24C1274-AI.PDF”.

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--END OF REPORT--