

TEST REPORT

Applicant: Whoop International Trading Ltd.
Address: Flat-B 8/F chong gming building 72, cheung sha wan road, Kowloon, Hong kong
Equipment Type: Mobile Data Terminal
Model Name: WMT-JA1
Brand Name: whoop
FCC ID: 2AP7L-WMTJA1
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jan. 26, 2024
Test Date: Feb. 19, 2024 - Feb. 26, 2024
Date of Issue: Mar. 21, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Zhang Guoxi**Checked by:** Zhenxiang Liu**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Mar. 21, 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	Whoop International Trading Ltd.
Address	Flat-B 8/F chong gming building 72, cheung sha wan road, Kowloon, Hong kong

2.2 Manufacturer Information

Manufacturer	Whoop International Trading Ltd.
Address	Flat-B 8/F chong gming building 72, cheung sha wan road, Kowloon, Hong kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Data Terminal
Model Name Under Test	WMT-JA1
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	WMT-JA1-H2
Software Version	V3.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	whoop
	Model No.	WMT-JA1-B01
	Serial No.	N/A
	Capacity	2200 mAh
	Rated Voltage	3.7 V
	Limit Charge Voltage	4.2 V
Ancillary Equipment 2	USB Cable	
	Length (Approx.)	0.5 m

2.5 Technical Information

Network and Wireless connectivity	4G Network FDD LTE Band 2/4/5/12/66/71
Classification of equipment	Class B
The highest internal frequency of EUT	2180 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	4.8 dB
Radiated emissions (1 GHz-18 GHz)-966#2	4.9 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2024.12.04	☒
Laptop	Lenovo	N/A	N/A	N/A	N/A	☒
Adapter	N/A	N/A	N/A	N/A	N/A	☒

4.2 Test Configurations

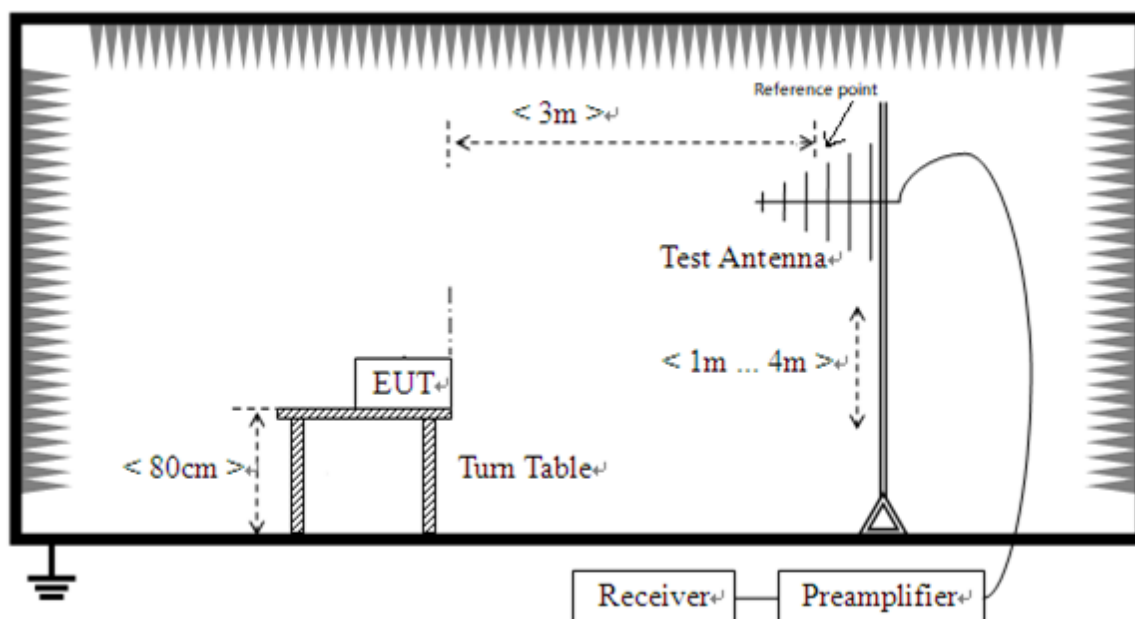
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT + Adapter + USB Cable + Battery
Mode 2	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT + Adapter + USB Cable + Battery
Mode 3	<u>The FDD LTE Band 71 RX Test Mode</u> LTE Band 71 RX + EUT + Adapter + USB Cable + Battery
Mode 4	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 5	<u>The Local Network Test Mode</u> EUT + USB Cable + Battery + Laptop

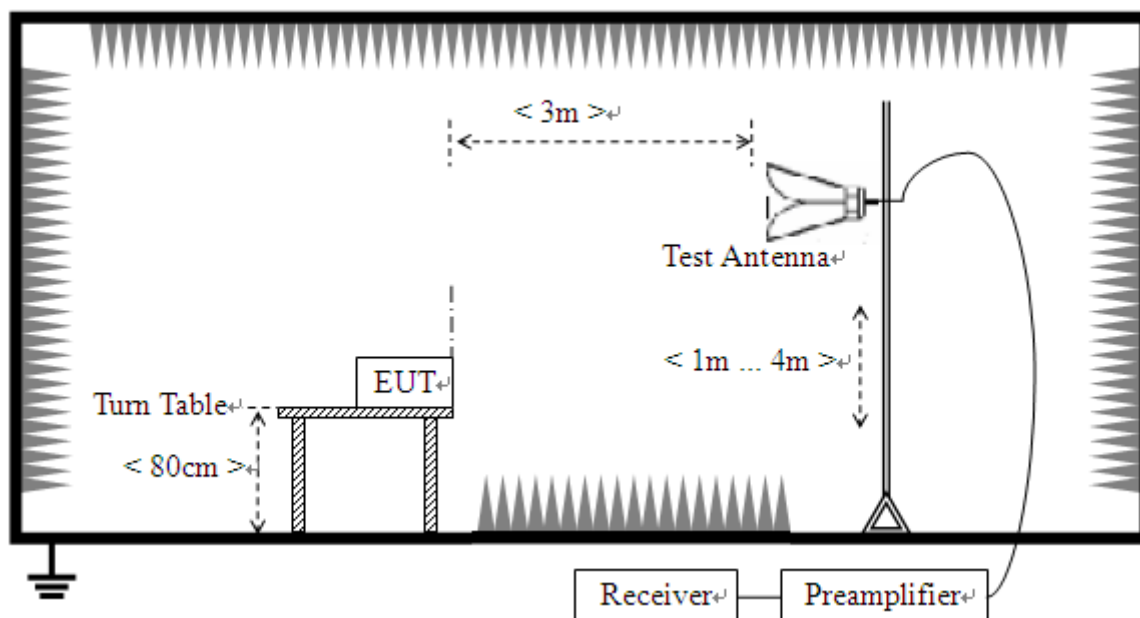
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 5	5
Conducted Emission, AC Ports	Mode 1~Mode 5	5
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

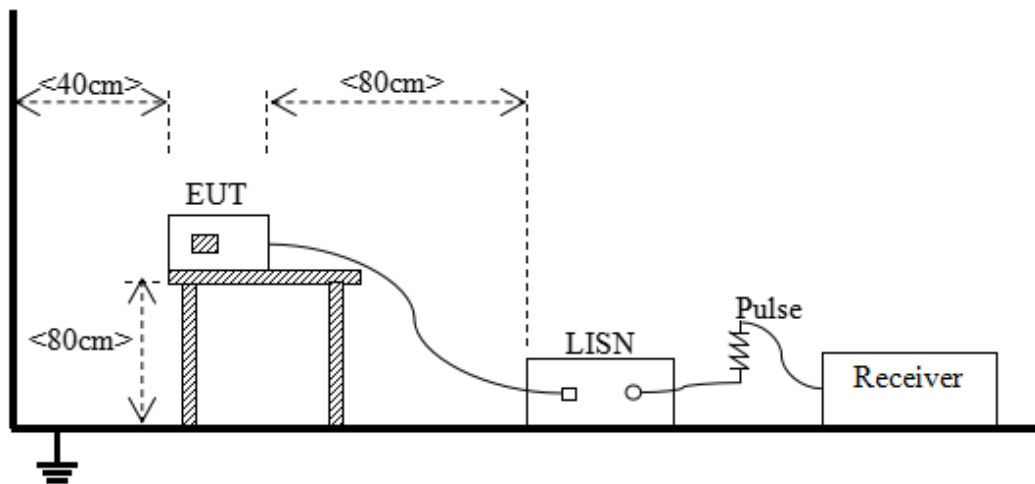
Test Setup 1



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

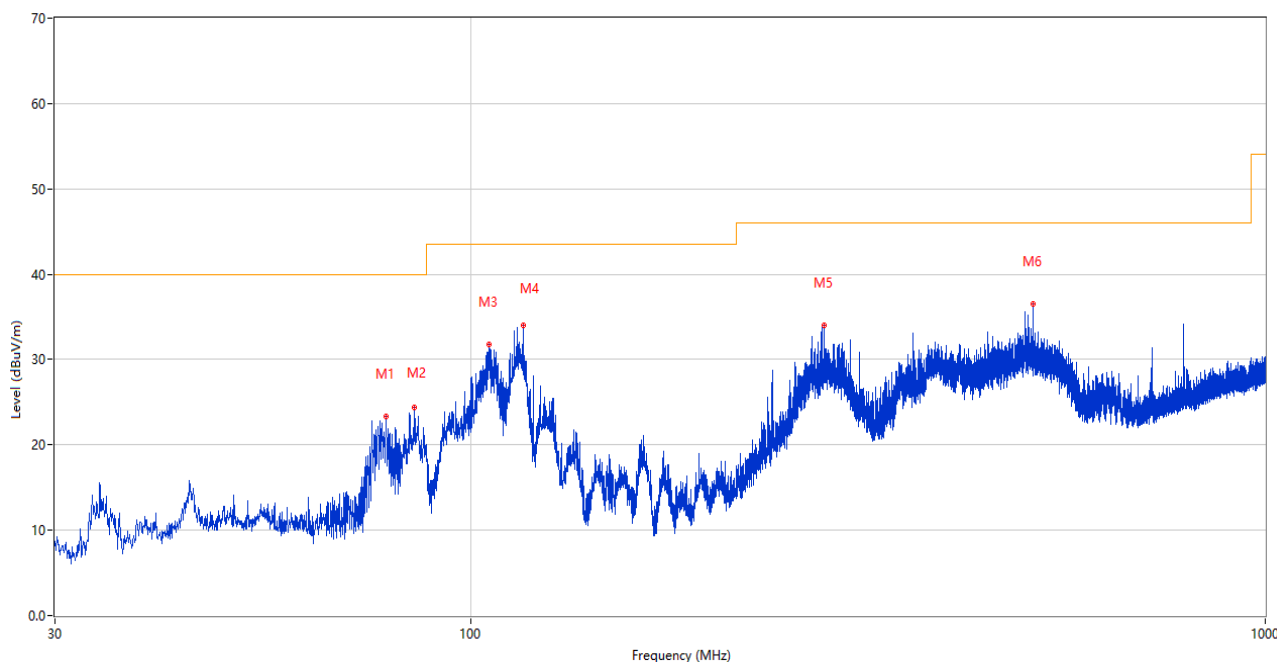
Note 1: The symbol of "--" in the table which means not application.

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.

Sample No.	S01	Temperature	21.7℃
Humidity	43%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.02.19

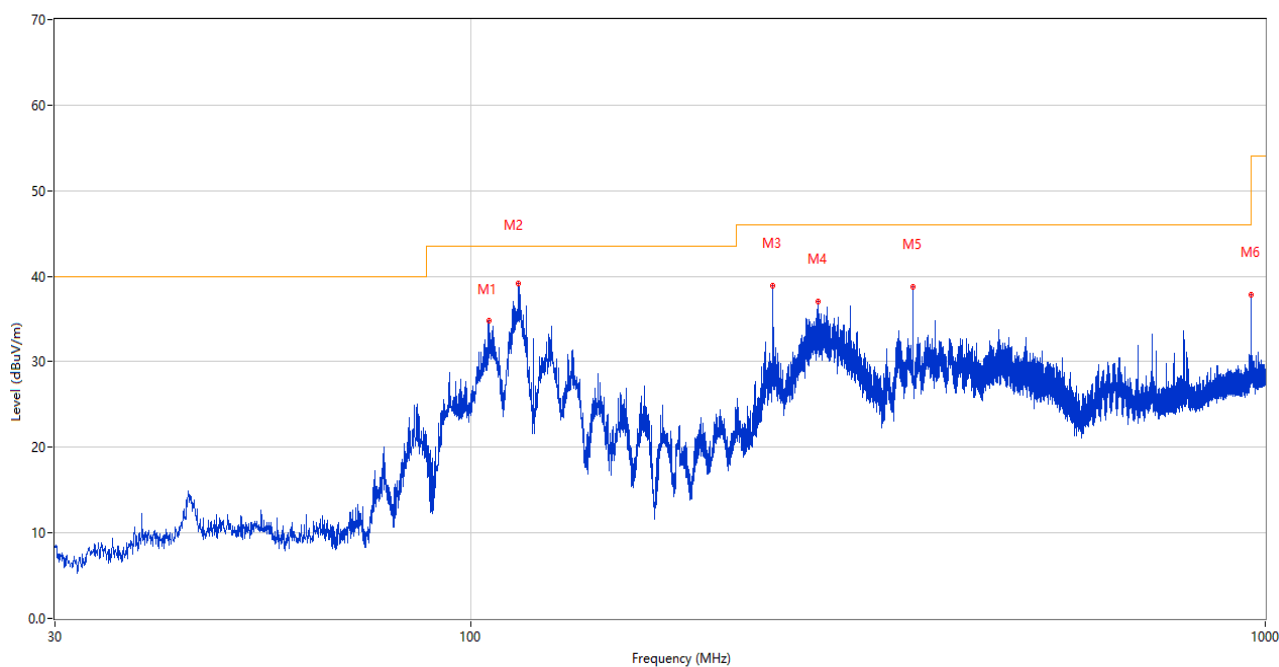
Test Mode 5

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	78.354	23.31	-31.10	40.0	16.69	Peak	299.00	100	Vertical	Pass
2	84.951	24.38	-29.96	40.0	15.62	Peak	82.00	200	Vertical	Pass
3	105.612	31.75	-26.48	43.5	11.75	Peak	246.00	100	Vertical	Pass
4	116.573	34.06	-27.80	43.5	9.44	Peak	82.00	200	Vertical	Pass
5	278.757	34.00	-24.29	46.0	12.00	Peak	152.00	200	Vertical	Pass
6	510.490	36.51	-18.47	46.0	9.49	Peak	200.00	200	Vertical	Pass

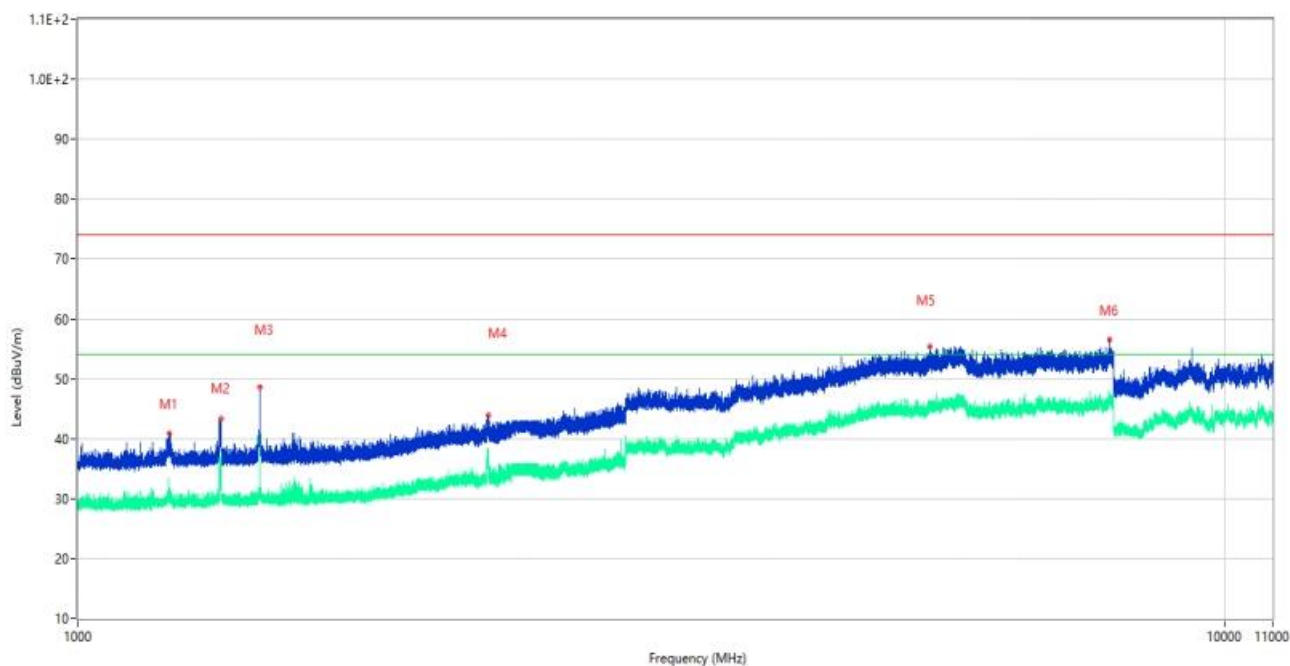
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	105.369	34.83	-26.47	43.5	8.67	Peak	357.00	200	Horizontal	Pass
2	114.972	39.10	-27.40	43.5	4.40	Peak	0.00	200	Horizontal	Pass
3	240.005	38.85	-25.15	46.0	7.15	Peak	184.00	100	Horizontal	Pass
4	273.373	37.04	-24.42	46.0	8.96	Peak	249.00	100	Horizontal	Pass
5	359.994	38.73	-21.90	46.0	7.27	Peak	344.00	100	Horizontal	Pass
6	959.599	37.86	-9.31	46.0	8.14	Peak	95.00	100	Horizontal	Pass

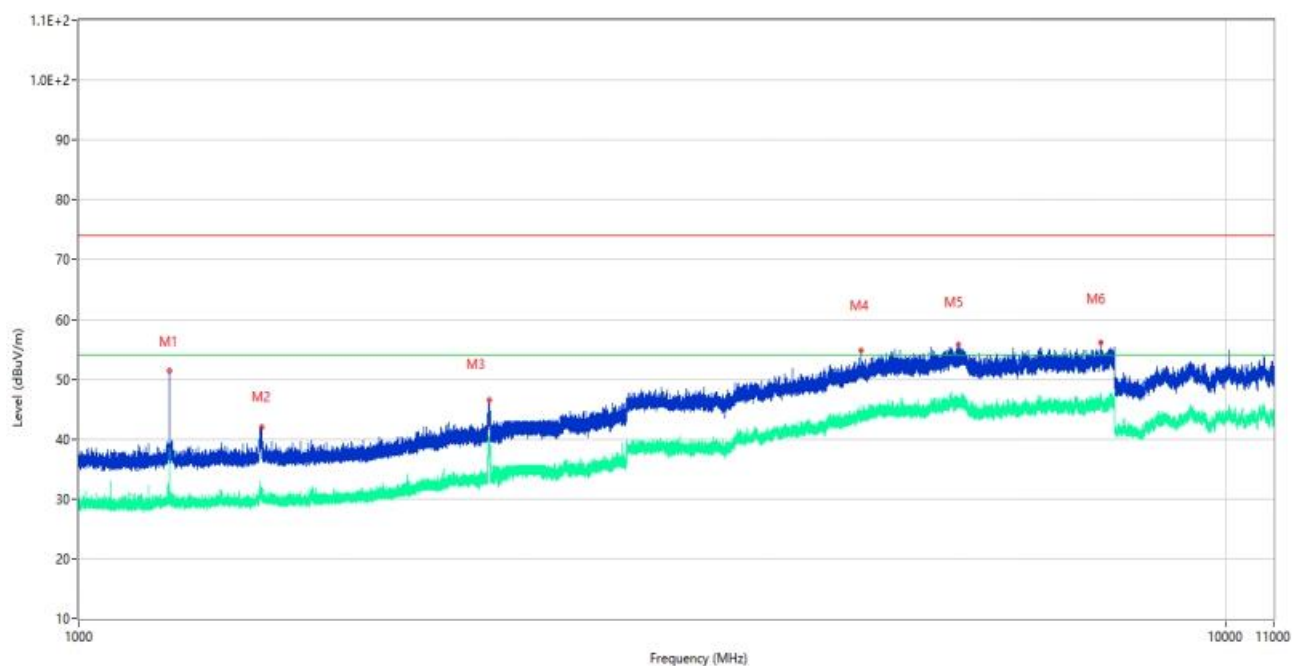
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9168	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 – 11 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1201.100	40.81	-16.19	74.0	33.19	Peak	16.00	100	Vertical	Pass
1**	1201.100	31.28	-16.19	54.0	22.72	AV	16.00	100	Vertical	Pass
2	1331.800	43.37	-16.11	74.0	30.63	Peak	196.00	100	Vertical	Pass
2**	1331.800	34.37	-16.11	54.0	19.63	AV	196.00	100	Vertical	Pass
3	1439.500	48.60	-15.98	74.0	25.40	Peak	113.00	100	Vertical	Pass
3**	1439.500	30.57	-15.98	54.0	23.43	AV	113.00	100	Vertical	Pass
4	2278.100	43.85	-11.99	74.0	30.15	Peak	353.00	100	Vertical	Pass
4**	2278.100	36.49	-11.99	54.0	17.51	AV	353.00	100	Vertical	Pass
5	5523.000	55.30	1.93	74.0	18.70	Peak	345.00	100	Vertical	Pass
5**	5523.000	45.49	1.93	54.0	8.51	AV	345.00	100	Vertical	Pass
6	7926.000	56.45	3.06	74.0	17.55	Peak	299.00	100	Vertical	Pass
6**	7926.000	45.78	3.06	54.0	8.22	AV	299.00	100	Vertical	Pass

4) Test Antenna Horizontal, 1 GHz – 11 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.600	51.37	-16.22	74.0	22.63	Peak	208.00	100	Horizontal	Pass
1**	1199.600	38.40	-16.22	54.0	15.60	AV	208.00	100	Horizontal	Pass
2	1444.200	42.11	-15.89	74.0	31.89	Peak	117.00	100	Horizontal	Pass
2**	1444.200	30.63	-15.89	54.0	23.37	AV	117.00	100	Horizontal	Pass
3	2279.400	46.59	-11.88	74.0	27.41	Peak	327.00	100	Horizontal	Pass
3**	2279.400	38.85	-11.88	54.0	15.15	AV	327.00	100	Horizontal	Pass
4	4809.250	54.77	1.99	74.0	19.23	Peak	191.00	100	Horizontal	Pass
4**	4809.250	44.03	1.99	54.0	9.97	AV	191.00	100	Horizontal	Pass
5	5842.250	55.84	3.71	74.0	18.16	Peak	275.00	100	Horizontal	Pass
5**	5842.250	46.33	3.71	54.0	7.67	AV	275.00	100	Horizontal	Pass
6	7773.250	56.07	2.84	74.0	17.93	Peak	72.00	100	Horizontal	Pass
6**	7773.250	46.26	2.84	54.0	7.74	AV	72.00	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	/		☒

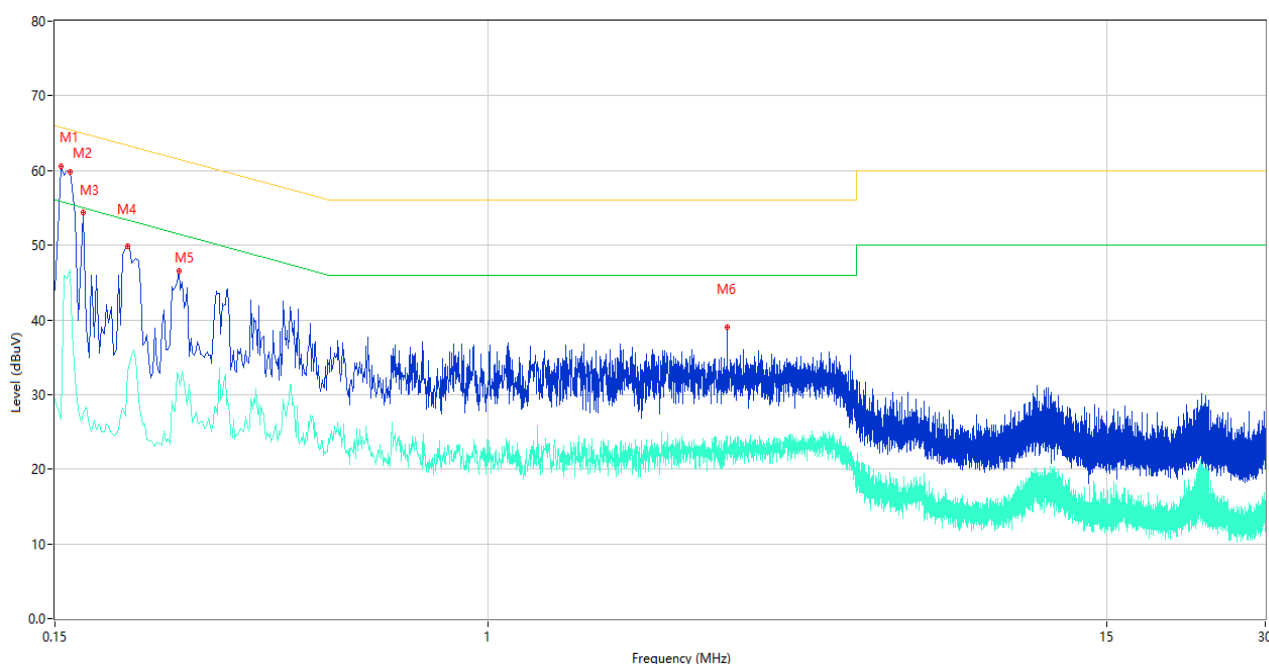
A.2 Conducted Emission, AC Ports

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 (120 VAC, 60 Hz) shown here.

Sample No.	S01	Temperature	20.9℃
Humidity	51%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.02.26

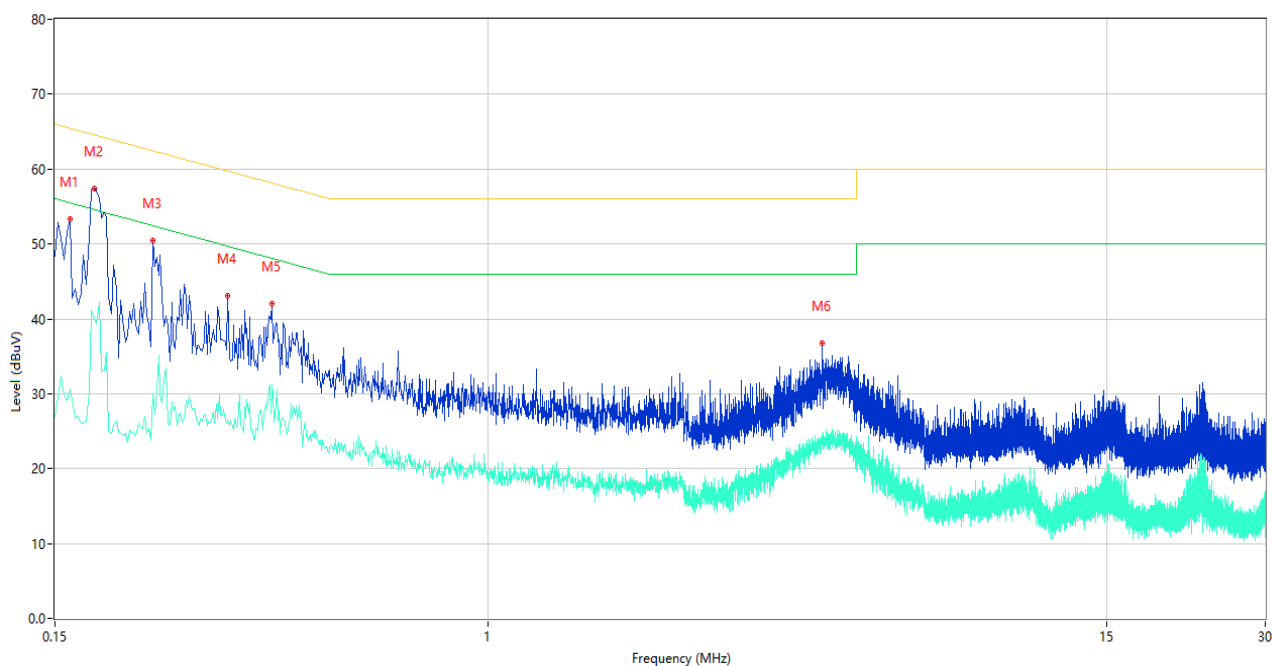
Test Mode 5

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	60.61	9.47	65.78	5.17	Peak	L	Pass
1**	0.154	26.59	9.47	55.78	29.19	AV	L	Pass
2	0.160	59.82	9.46	65.46	5.64	Peak	L	Pass
2**	0.160	46.68	9.46	55.46	8.78	AV	L	Pass
3	0.170	54.46	9.45	64.96	10.50	Peak	L	Pass
3**	0.170	27.45	9.45	54.96	27.51	AV	L	Pass
4	0.206	49.83	9.42	63.37	13.54	Peak	L	Pass
4**	0.206	33.09	9.42	53.37	20.28	AV	L	Pass
5	0.258	46.53	9.43	61.50	14.97	Peak	L	Pass
5**	0.258	32.00	9.43	51.50	19.50	AV	L	Pass
6	2.848	39.10	9.57	56.00	16.90	Peak	L	Pass
6**	2.848	24.36	9.57	46.00	21.64	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	53.31	9.46	65.46	12.15	Peak	N	Pass
1**	0.160	30.60	9.46	55.46	24.86	AV	N	Pass
2	0.178	57.42	9.44	64.58	7.16	Peak	N	Pass
2**	0.178	40.03	9.44	54.58	14.55	AV	N	Pass
3	0.230	50.41	9.43	62.45	12.04	Peak	N	Pass
3**	0.230	29.94	9.43	52.45	22.51	AV	N	Pass
4	0.320	43.05	9.39	59.71	16.66	Peak	N	Pass
4**	0.320	26.55	9.39	49.71	23.16	AV	N	Pass
5	0.388	42.01	9.85	58.11	16.10	Peak	N	Pass
5**	0.388	31.16	9.85	48.11	16.95	AV	N	Pass
6	4.304	36.76	9.37	56.00	19.24	Peak	N	Pass
6**	4.304	24.58	9.37	46.00	21.42	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	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15	☒
ISN	TESEQ	ISN T800	34449	2023.11.10	2024.11.09	☐
ISN	TESEQ	ISN T8-Cat6	53561	2023.04.23	2024.04.22	☐
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-SZ2410995-AE-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2410995-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2410995-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.
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--END OF REPORT--