

TEST REPORT

Applicant: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue,
Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Type: Projector
Model Name: C1SL3F (refer to section 2.3)
Brand Name: TCL
FCC ID: 2ACCJB247
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Feb. 28, 2026
Test Date: Mar. 04, 2026 - Mar. 19, 2026
Date of Issue: Aug. 11, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Guoxi**Checked by:** Zong Liyao**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 15, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Aug. 11, 2026</u>	<u>Update Chapter 1.2</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	3
1.1	Test Laboratory	3
1.2	Test Location	3
2	PRODUCT INFORMATION	4
2.1	Applicant Information	4
2.2	Manufacturer Information.....	4
2.3	General Description for Equipment under Test (EUT).....	4
2.4	Ancillary Equipment.....	4
2.5	Technical Information	4
3	SUMMARY OF TEST RESULTS	5
3.1	Test Standards	5
3.2	Verdict.....	5
3.3	Test Uncertainty	5
4	GENERAL TEST CONFIGURATIONS	6
4.1	Test Enclosure List.....	6
4.2	Test Configurations	6
4.3	Test Setups	7
5	TEST ITEMS	9
5.1	Emission Tests	9
ANNEX A	TEST RESULTS	14
A.1	Radiated Emission.....	14
A.2	Conducted Emission, AC Ports.....	20
ANNEX B	TEST SETUP PHOTOS	23
ANNEX C	EUT EXTERNAL PHOTOS.....	23
ANNEX D	EUT INTERNAL PHOTOS.....	23

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☐ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196 and the registration number is 935607.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.2 Manufacturer Information

Manufacturer	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	Projector
Model Name Under Test	C1SL3F
Series Model Name	C21L3F, C22L3F, C23L3F, C24L3F
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V03
Software Version	M020
Dimensions (Approx.)	N/A
Weight (Approx.)	1.847kg

2.4 Ancillary Equipment

Ancillary Equipment 1	Power cord	
	Brand Name	N/A
	Model No.	DTI-2P-02+01A-2M
Ancillary Equipment 2	Remote control	

2.5 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
Classification of equipment	Class B
The highest internal frequency of EUT	5825 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-150 KHz)	3.36 dB
Conducted emissions (150 kHz-30 MHz)	2.92 dB
Radiated emissions (30 MHz-1 GHz)	4.24 dB
Radiated emissions (30 MHz-6 GHz)	5.10 dB
Radiated emissions (6 GHz-18 GHz)	5.30 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Laptop	N/A	N/A	N/A	N/A	N/A	☒
HDMI Cable	N/A	N/A	N/A	N/A	N/A	☒
Headset	N/A	N/A	N/A	1.2m	N/A	☒
USB Disk	N/A	N/A	N/A	N/A	32G	☒

4.2 Test Configurations

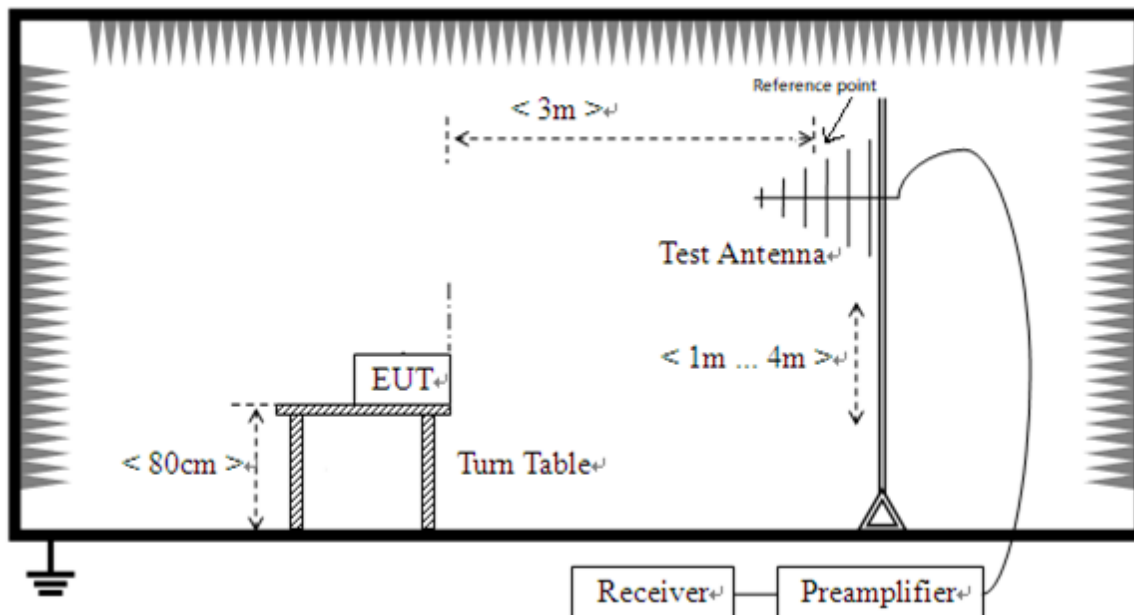
All test modes of EUT are listed in the table below.

Test Mode Configuration	Description
Mode 1	<u>The Projection Test Mode</u> EUT + Power Cable + Laptop + HDMI Cable + Headset + USB Disk
Mode 2	<u>The USB Disk test mode</u> EUT + Power Cable + Laptop + HDMI Cable + Headset + USB Disk

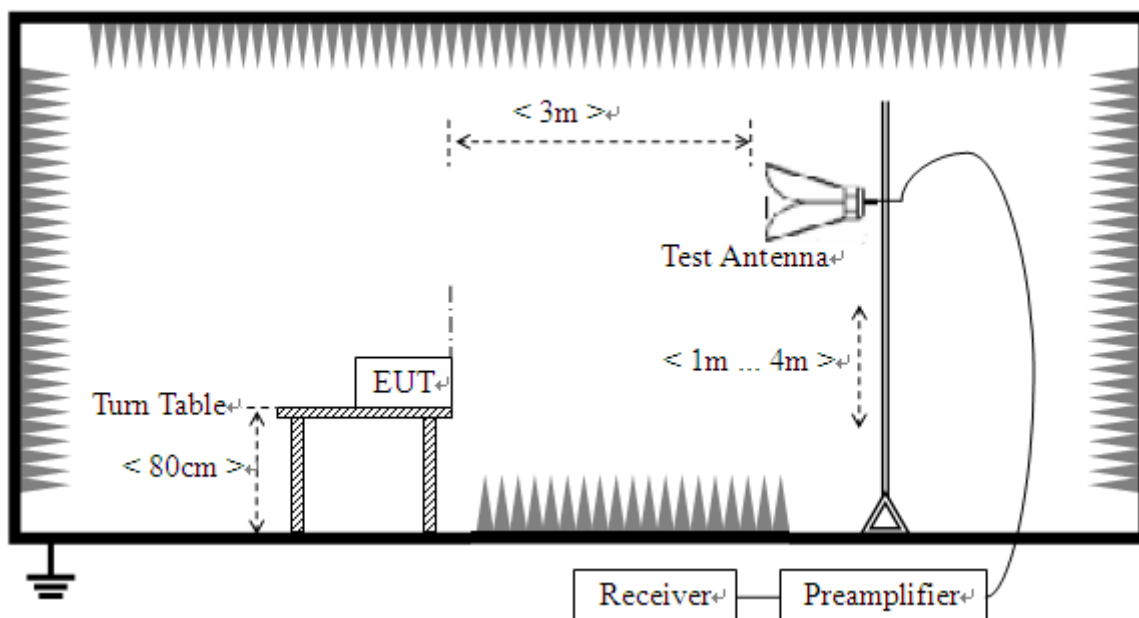
Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 2	1
Conducted Emission, AC Ports	Mode 1~Mode 2	1
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.		

4.3 Test Setups

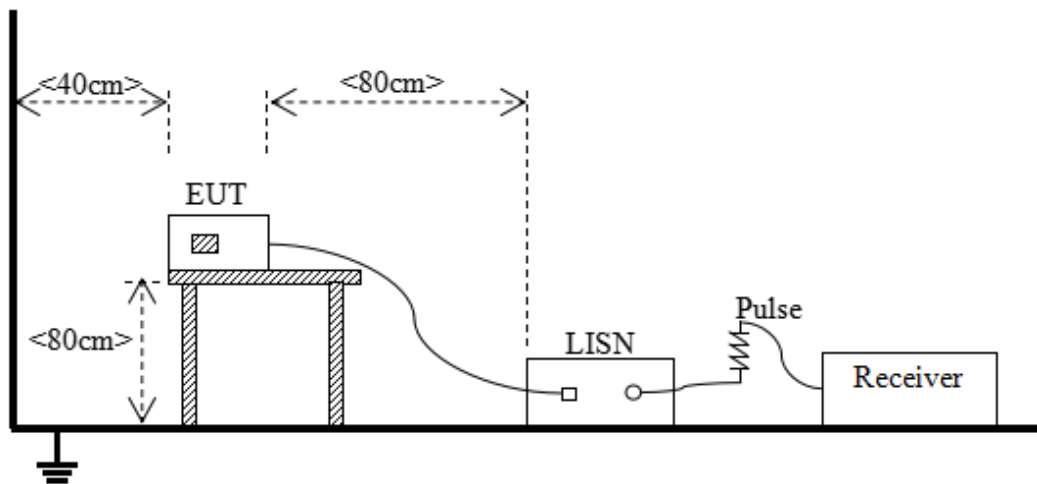
Test Setup 1



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

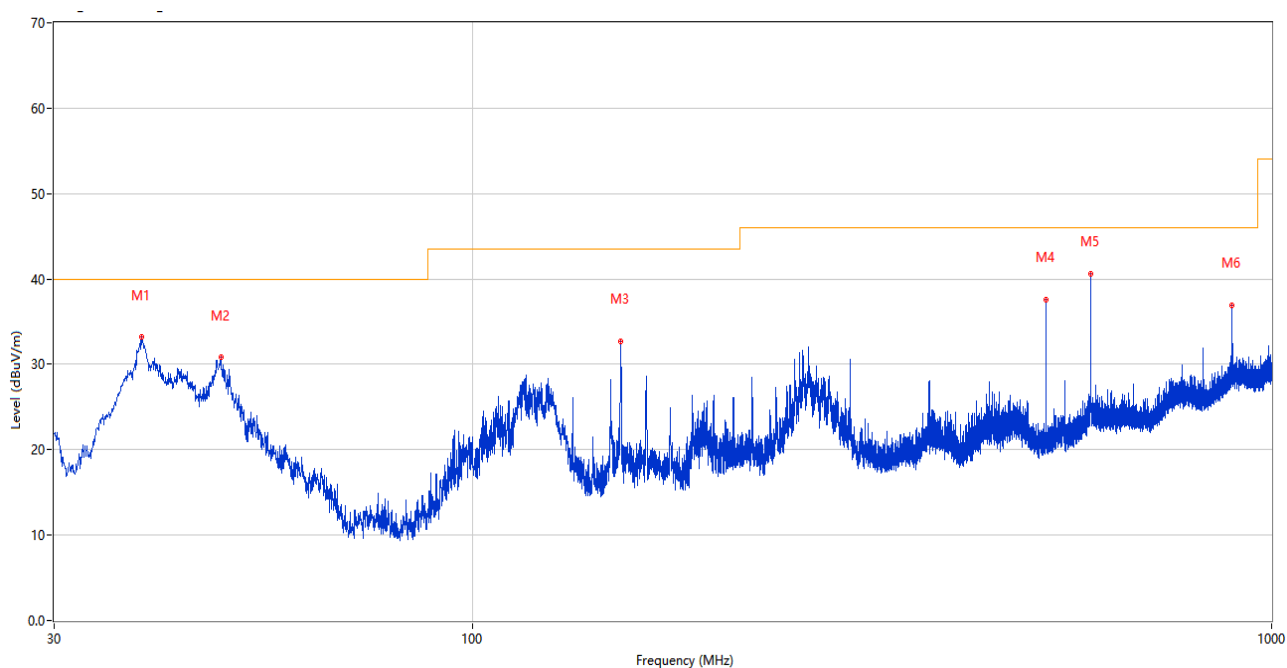
Note 1: The symbol of "--" in the table which means not application.

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.

Sample No.	S12	Temperature	20.8℃
Humidity	45%RH	Pressure	100.9kPa
Test Engineer	Ye Guangqi	Test Date	2026.03.04

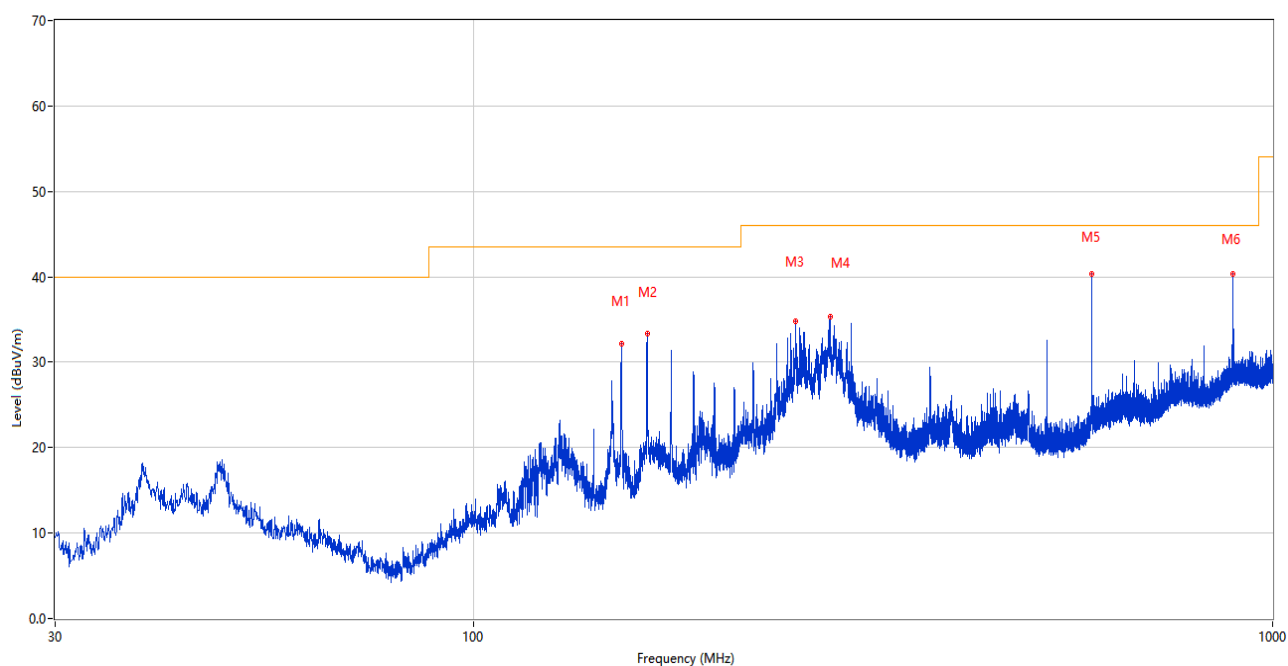
Test Mode 1

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	38.633	33.16	-26.44	40.0	6.84	Peak	208.00	100	Vertical	Pass
2	48.478	30.78	-25.65	40.0	9.22	Peak	34.00	100	Vertical	Pass
3	153.384	32.74	-29.53	43.5	10.76	Peak	337.00	100	Vertical	Pass
4	521.984	37.61	-17.92	46.0	8.39	Peak	161.00	100	Vertical	Pass
5	594.006	40.60	-15.50	46.0	5.40	Peak	27.00	100	Vertical	Pass
6	891.020	36.89	-9.11	46.0	9.11	Peak	262.00	200	Vertical	Pass

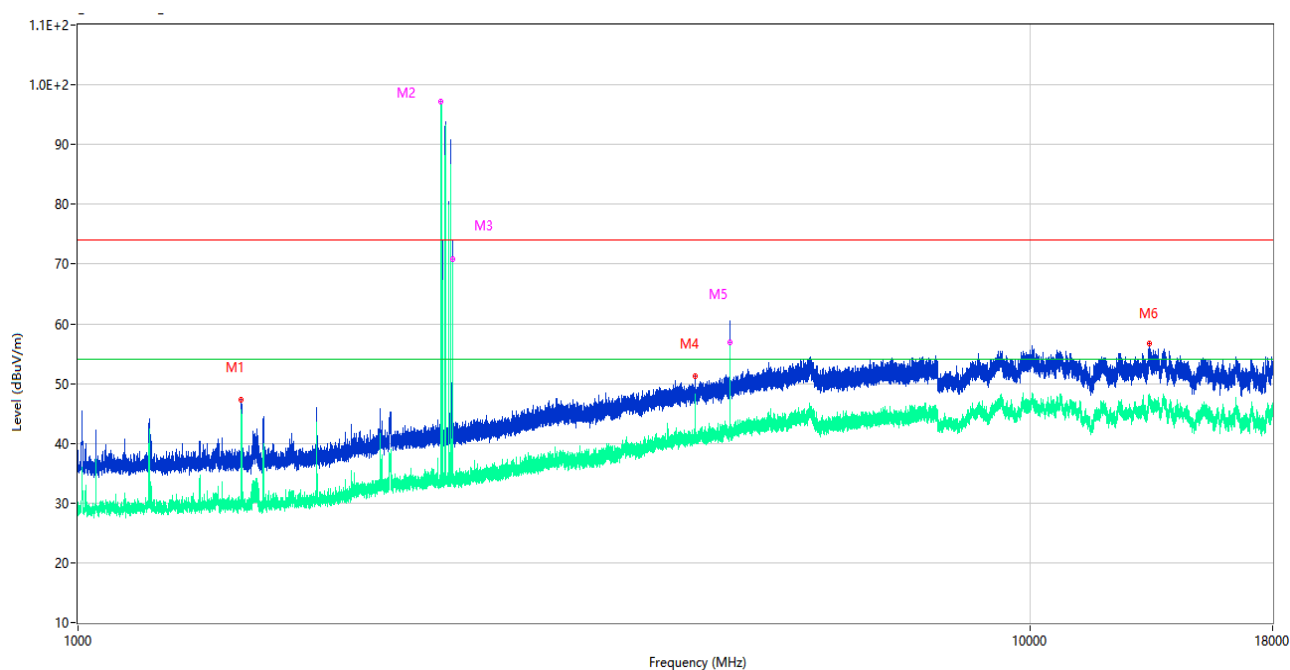
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	153.335	32.11	-29.51	43.5	11.39	Peak	311.00	200	Horizontal	Pass
2	165.169	33.31	-28.98	43.5	10.19	Peak	127.00	200	Horizontal	Pass
3	253.100	34.85	-24.18	46.0	11.15	Peak	0.00	100	Horizontal	Pass
4	279.726	35.33	-23.78	46.0	10.67	Peak	58.00	100	Horizontal	Pass
5	594.006	40.39	-15.50	46.0	5.61	Peak	295.00	100	Horizontal	Pass
6	891.020	40.40	-9.11	46.0	5.60	Peak	0.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9163	01414	2023.11.03	2026.11.02	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	107	2024.05.12	2027.05.11	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

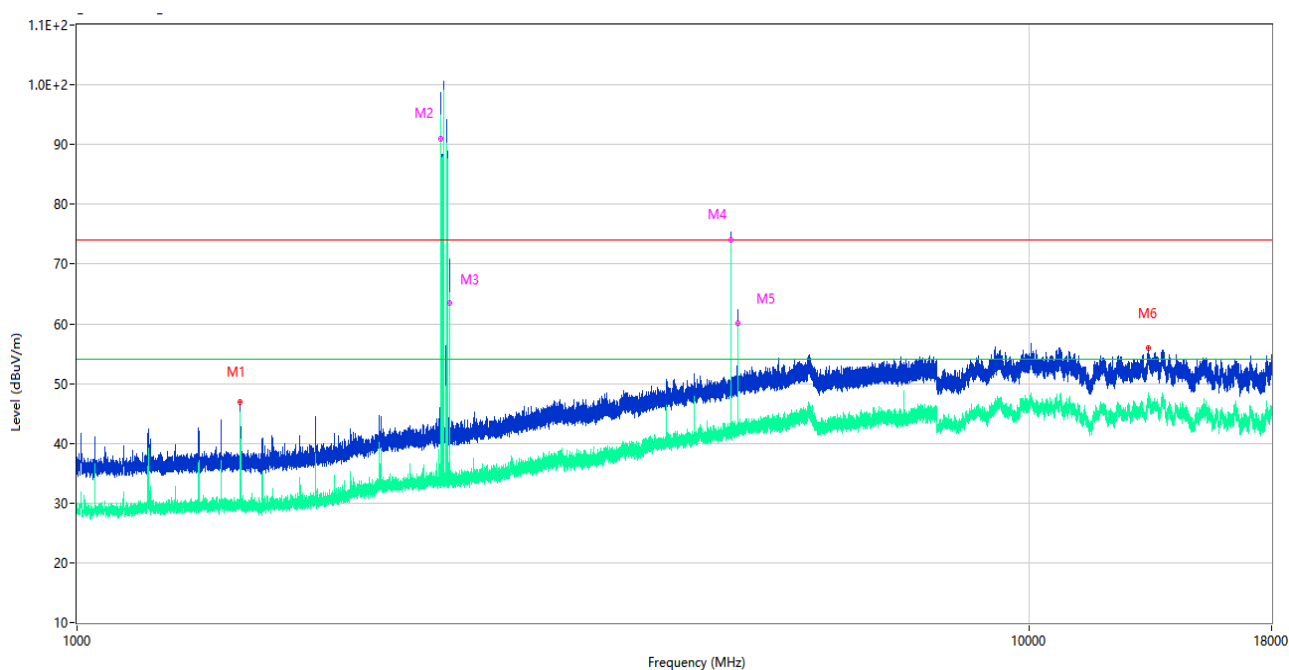
3) Test Antenna Vertical, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.770	47.30	-16.05	74.0	26.70	Peak	185.00	100	Vertical	Pass
1**	1484.770	43.24	-16.05	54.0	10.76	AV	185.00	100	Vertical	Pass
2	2408.030	97.62	-11.63	74.0	-23.62	Peak	60.00	100	Vertical	N/A
2**	2408.030	97.14	-11.63	54.0	-43.14	AV	60.00	100	Vertical	N/A
3	2476.540	74.06	-10.61	74.0	-0.06	Peak	118.00	100	Vertical	N/A
3**	2476.540	70.77	-10.61	54.0	-16.77	AV	118.00	100	Vertical	N/A
4	4455.360	51.19	-1.69	74.0	22.81	Peak	23.00	100	Vertical	Pass
4**	4455.360	47.44	-1.69	54.0	6.56	AV	23.00	100	Vertical	Pass
5	4843.880	59.15	-0.47	74.0	14.85	Peak	23.00	100	Vertical	N/A
5**	4843.880	56.83	-0.47	54.0	-2.83	AV	23.00	100	Vertical	N/A
6	13361.500	56.79	5.15	74.0	17.21	Peak	211.00	100	Vertical	Pass
6**	13361.500	46.80	5.15	54.0	7.20	AV	211.00	100	Vertical	Pass

Note 1: Verdict marked with “N/A” means Not Applicable which is the fundamental wave or harmonic of simulator station, mobile station, BT or WIFI carrier frequency emission.

4) Test Antenna Horizontal, 1 GHz – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.900	46.91	-16.00	74.0	27.09	Peak	188.00	100	Horizontal	Pass
1**	1484.900	44.11	-16.00	54.0	9.89	AV	188.00	100	Horizontal	Pass
2	2411.150	98.63	-11.41	74.0	-24.63	Peak	303.00	100	Horizontal	N/A
2**	2411.150	90.99	-11.41	54.0	-36.99	AV	303.00	100	Horizontal	N/A
3	2465.620	62.87	-10.75	74.0	11.13	Peak	0.00	100	Horizontal	N/A
3**	2465.620	63.52	-10.75	54.0	-9.52	AV	0.00	100	Horizontal	N/A
4	4863.680	75.40	-0.42	74.0	-1.40	Peak	262.00	100	Horizontal	N/A
4**	4863.680	73.98	-0.42	54.0	-19.98	AV	262.00	100	Horizontal	N/A
5	4943.980	62.07	-0.10	74.0	11.93	Peak	108.00	100	Horizontal	N/A
5**	4943.980	60.01	-0.10	54.0	-6.01	AV	108.00	100	Horizontal	N/A
6	13349.000	55.90	5.24	74.0	18.10	Peak	137.00	100	Horizontal	Pass
6**	13349.000	47.27	5.24	54.0	6.73	AV	137.00	100	Horizontal	Pass

Note 1: Verdict marked with “N/A” means Not Applicable which is the fundamental wave or harmonic of simulator station, mobile station, BT or WIFI carrier frequency emission.

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15	☒
Test Antenna-Horn	SCHWARZB ECK	BBHA 9120D	02459	2023.10.26	2026.10.25	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	107	2024.05.12	2027.05.11	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

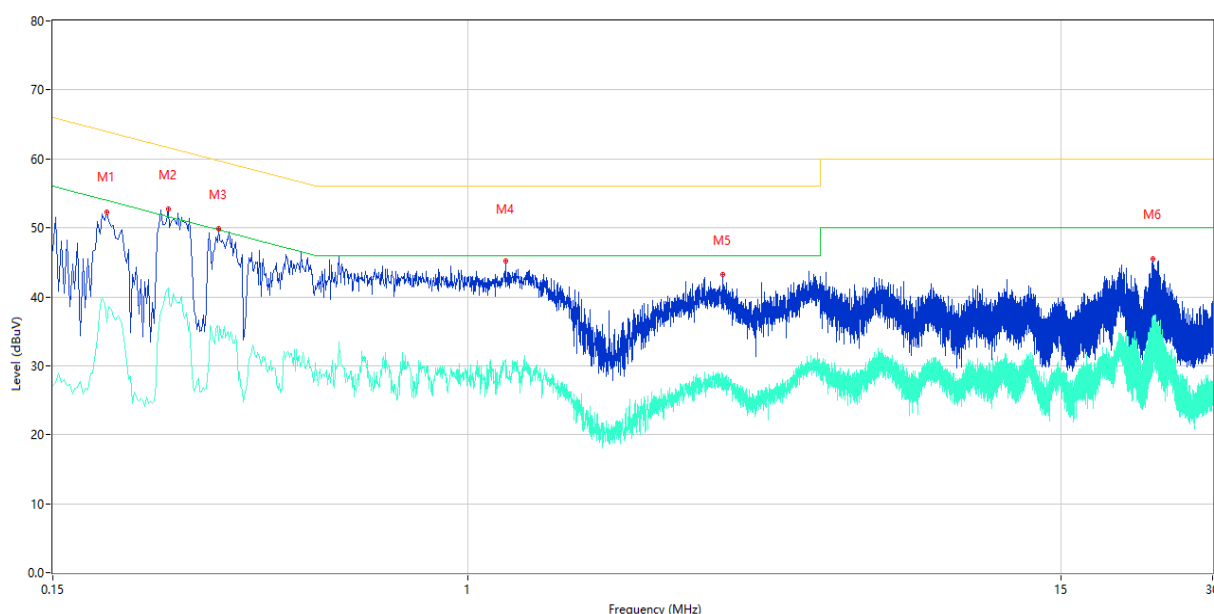
A.2 Conducted Emission, AC Ports

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.	S12	Temperature	23°C
Humidity	45%RH	Pressure	100.8kPa
Test Engineer	Zhong Pingqi	Test Date	2026.03.19

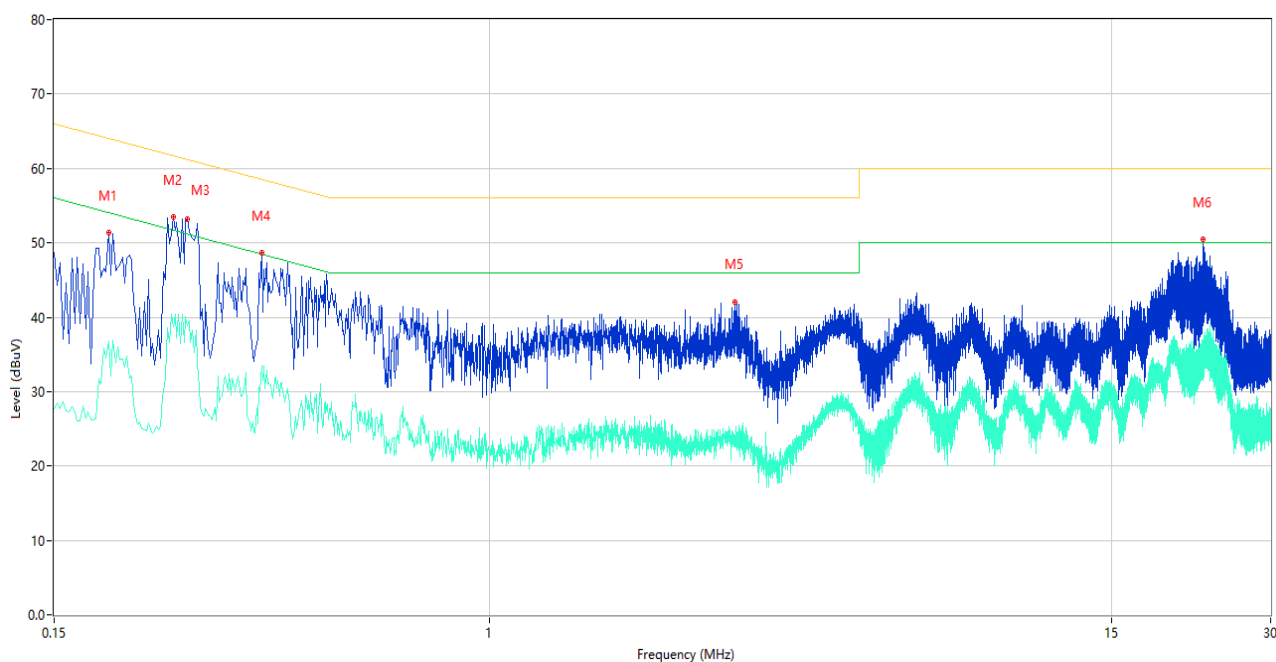
Test Mode 1

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.192	52.20	10.28	63.95	11.75	Peak	L	Pass
1**	0.192	36.29	10.28	53.95	17.66	AV	L	Pass
2	0.254	52.73	10.26	61.63	8.90	Peak	L	Pass
2**	0.254	41.35	10.26	51.63	10.28	AV	L	Pass
3	0.320	49.84	10.26	59.71	9.87	Peak	L	Pass
3**	0.320	33.59	10.26	49.71	16.12	AV	L	Pass
4	1.186	45.25	10.35	56.00	10.75	Peak	L	Pass
4**	1.186	30.90	10.35	46.00	15.10	AV	L	Pass
5	3.196	43.19	10.59	56.00	12.81	Peak	L	Pass
5**	3.196	28.81	10.59	46.00	17.19	AV	L	Pass
6	22.886	45.53	15.00	60.00	14.47	Peak	L	Pass
6**	22.886	34.72	15.00	50.00	15.28	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.190	51.31	10.19	64.04	12.73	Peak	N	Pass
1**	0.190	36.74	10.19	54.04	17.30	AV	N	Pass
2	0.252	53.51	10.18	61.69	8.18	Peak	N	Pass
2**	0.252	38.67	10.18	51.69	13.02	AV	N	Pass
3	0.268	53.15	10.18	61.18	8.03	Peak	N	Pass
3**	0.268	38.93	10.18	51.18	12.25	AV	N	Pass
4	0.370	48.70	10.18	58.50	9.80	Peak	N	Pass
4**	0.370	33.50	10.18	48.50	15.00	AV	N	Pass
5	2.904	42.08	10.45	56.00	13.92	Peak	N	Pass
5**	2.904	23.21	10.45	46.00	22.79	AV	N	Pass
6	22.348	50.44	14.94	60.00	9.56	Peak	N	Pass
6**	22.348	36.25	14.94	50.00	13.75	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.04.01	2026.03.31	☒
LISN	SCHWARZBECK	NSLK 8127	01009	2025.07.15	2026.07.14	☒
Shielded Room	YiHeng Electronic Co., Ltd	/	235	2024.11.05	2027.11.04	☒
Description	Supplier	Name	Version	/		Use
Test Software	BALUN	BL410-E	V22.4 en	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26020210-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26020210-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26020210-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
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--END OF REPORT--