

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: TCL Kids Watch
Model Name: MT50A
Brand Name: TCL
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 17, 2026
Test Date: Jun. 25 2026 - Jun. 27, 2026
Date of Issue: Jul. 10, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li JunFeng

Checked by: Zong Liyao

Approved by: Liao Jianming
(Technical Director)

Li JunFeng

Zong Liyao

Jm Liao

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jul. 10, 2026</u>	<u>Initial Issue</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	5
3	SUMMARY OF TEST RESULTS	6
3.1	Test Standards	6
3.2	Verdict	6
3.3	Test Uncertainty	6
4	GENERAL TEST CONFIGURATIONS	7
4.1	Test Enclosure List	7
4.2	Test Configurations	7
4.3	Test Setups	8
5	TEST ITEMS	10
5.1	Emission Tests	10
ANNEX A	TEST RESULTS.....	15
A.1	Radiated Emission.....	15
A.2	Conducted Emission, AC Ports.....	22
ANNEX B	TEST SETUP PHOTOS	26
ANNEX C	EUT EXTERNAL PHOTOS.....	26
ANNEX D	EUT INTERNAL PHOTOS.....	26

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. The certification body is American Association for Laboratory Accreditation (A2LA).

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	TCL Kids Watch
Model Name Under Test	MT50A
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	WK280_MB_A1-1
Software Version	MT50A_EUZ_00.01_01.022
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No.	482830PM4
	Serial No.	N/A
	Capacitance	600mAh
	Rated Voltage	3.85 V
	Limited Voltage	N/A
	Manufacturer	Chongqing VDL Electronics Co.,Ltd
Ancillary Equipment 2	USB Cable	
	Length (Approx.)	0.8m

2.5 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4 4G Network FDD LTE Band 2/5/7/66 Bluetooth (BR+EDR+BLE) 802.11b, 802.11g, 802.11n GPS, Glonass
Classification of equipment	Class B

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)-966#1	4.24 dB
Radiated emissions (1 GHz-18 GHz)-966#1	5.10 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
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.

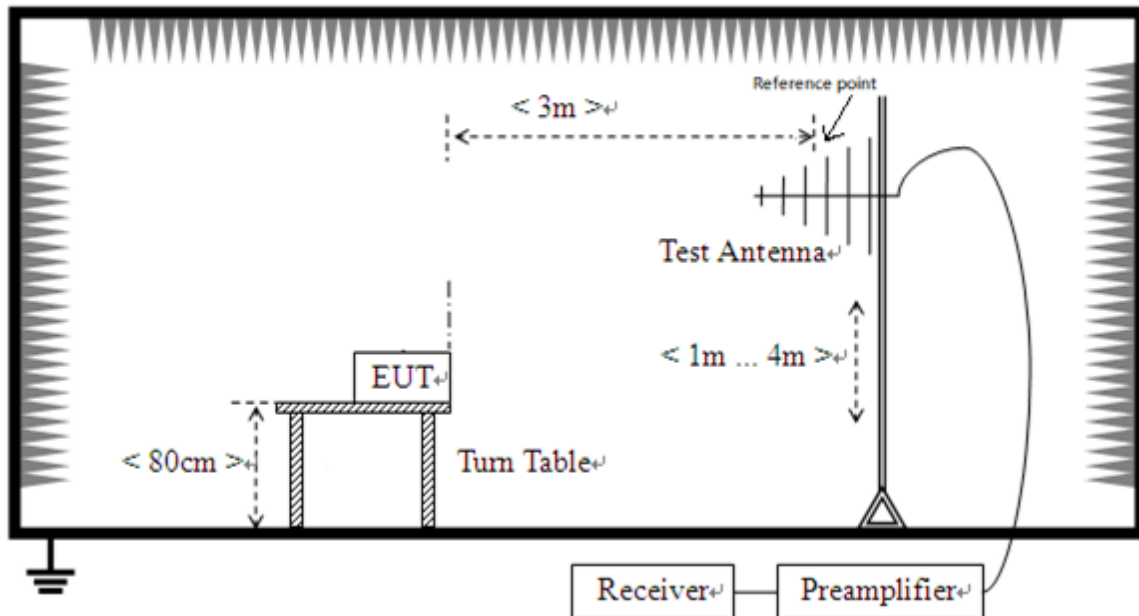
Test Mode Configuration	Description
Mode 1	<u>The Charging Test Mode</u> EUT + Adapter + USB Cable + Battery
Mode 2	<u>The Front Camera Test Mode</u> EUT + Adapter + USB Cable + Battery + Front Camera
Mode 3	<u>The Only EUT Test Mode</u> EUT + Battery + Front Camera

Test Case	Test Mode Configuration	Worst Mode
Radiated Emission	Mode 1~Mode 3	2
Conducted Emission, AC Ports	Mode 1~Mode 2	2

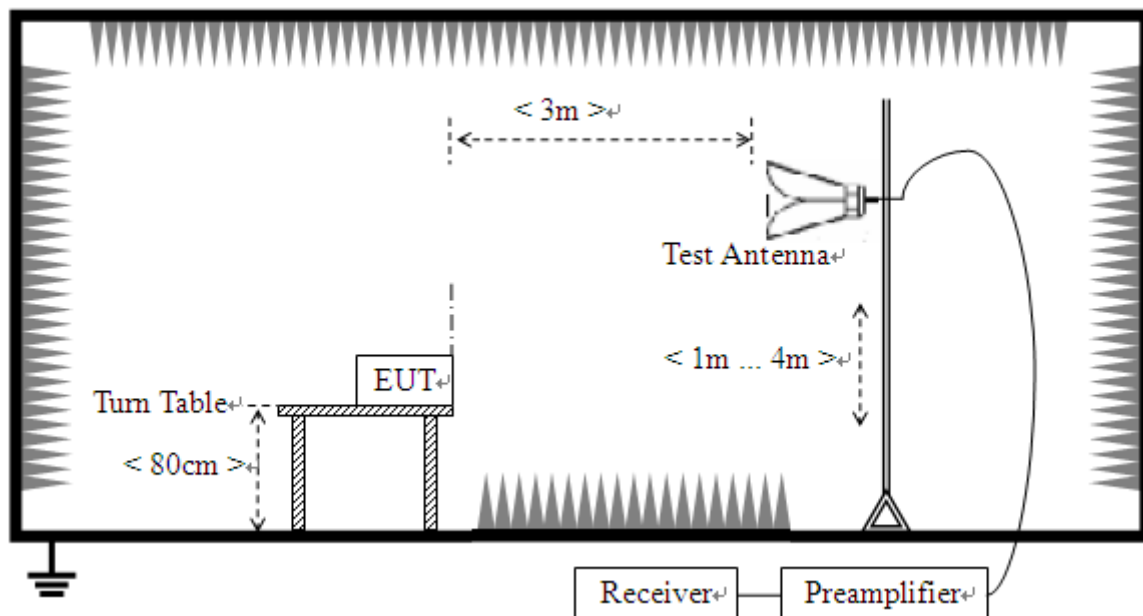
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.

4.3 Test Setups

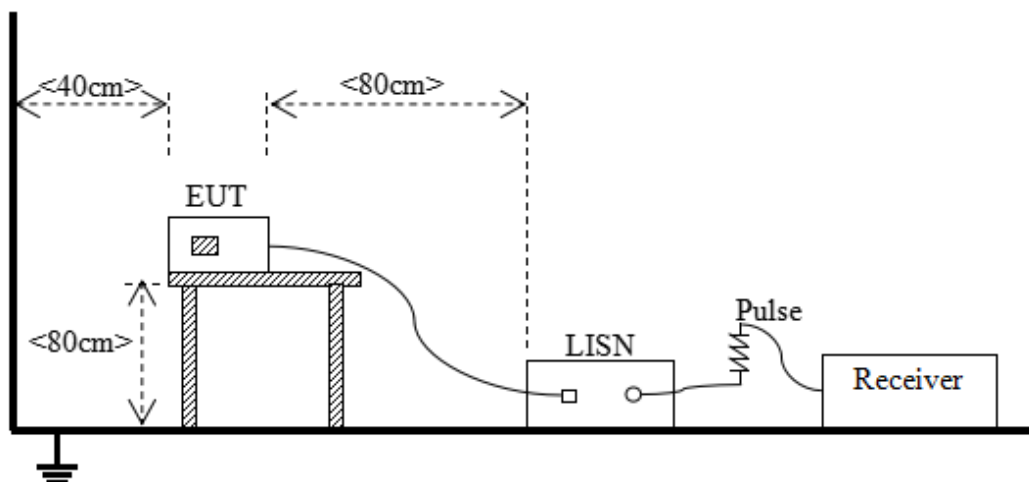
Test Setup 1



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 (dBμV) = Reading (dBμV) + 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.

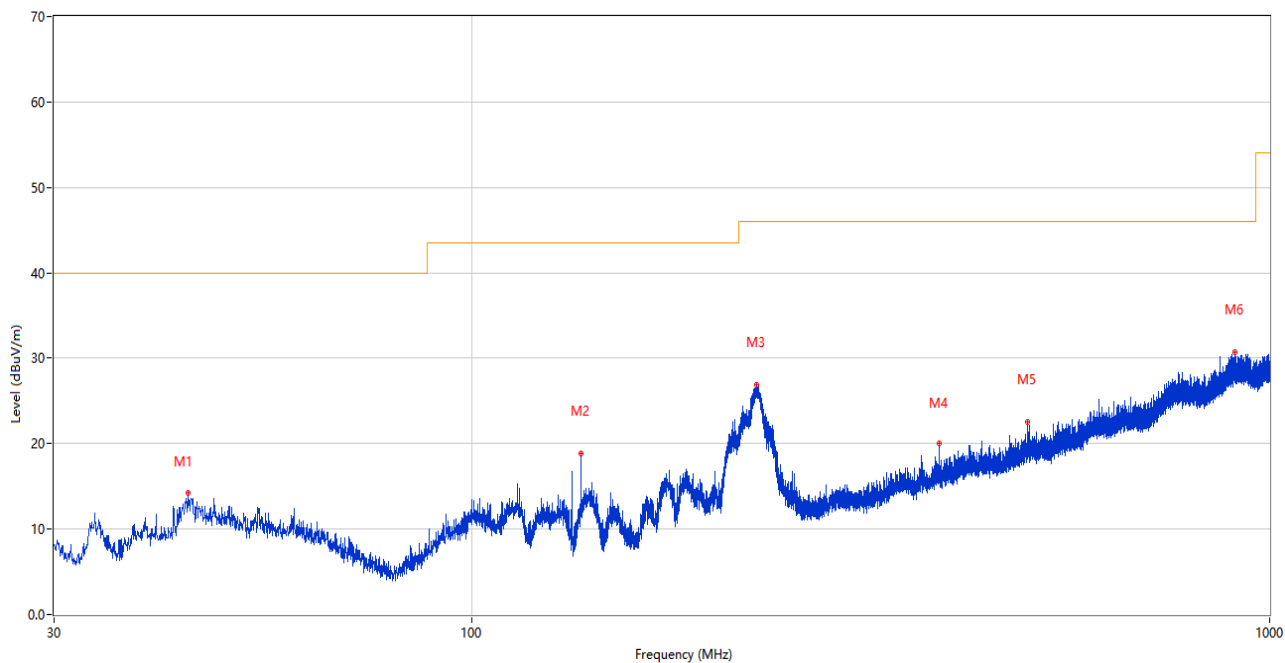
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.	S25	Temperature	22.6℃
Humidity	51%RH	Pressure	99.7kPa
Test Engineer	Wu Jun	Test Date	2026.06.25

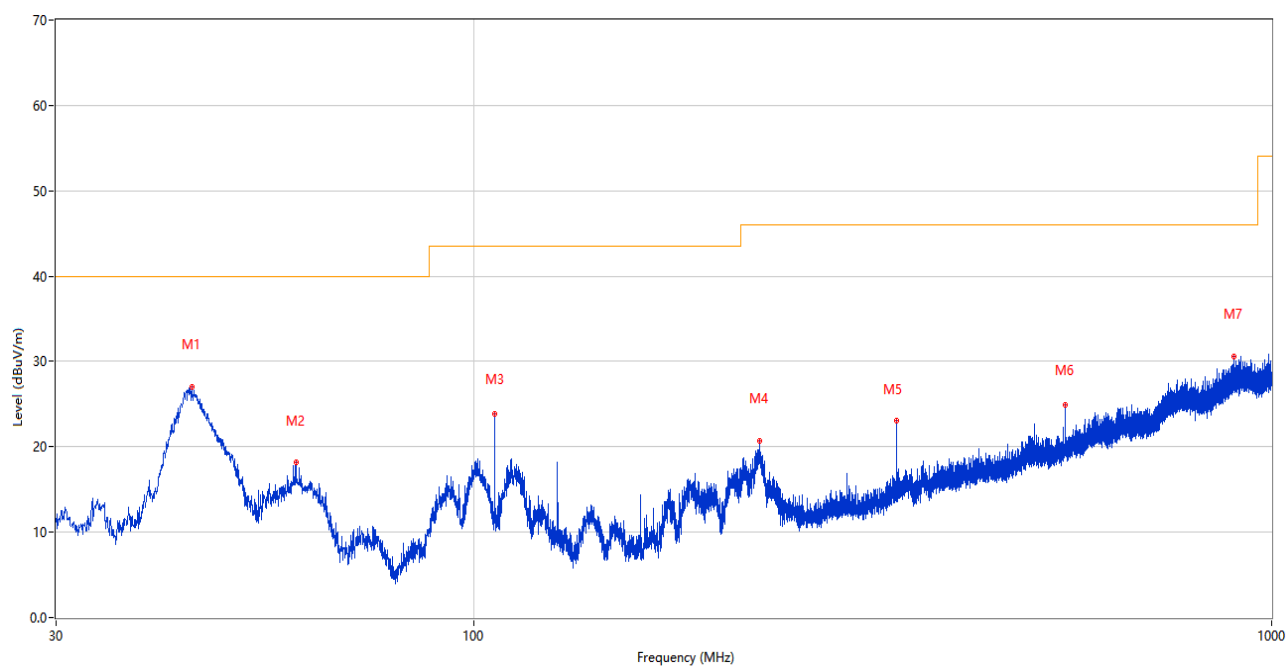
Test Mode 2

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	44.211	14.27	-25.64	40.0	25.73	Peak	1.00	100	Horizontal	Pass
2	137.282	18.88	-29.74	43.5	24.62	Peak	270.00	200	Horizontal	Pass
3	227.444	26.95	-25.50	46.0	19.05	Peak	137.00	100	Horizontal	Pass
4	385.554	20.03	-21.06	46.0	25.97	Peak	26.00	200	Horizontal	Pass
5	497.977	22.60	-17.86	46.0	23.40	Peak	9.00	100	Horizontal	Pass
6	904.164	30.71	-8.63	46.0	15.29	Peak	287.00	100	Horizontal	Pass

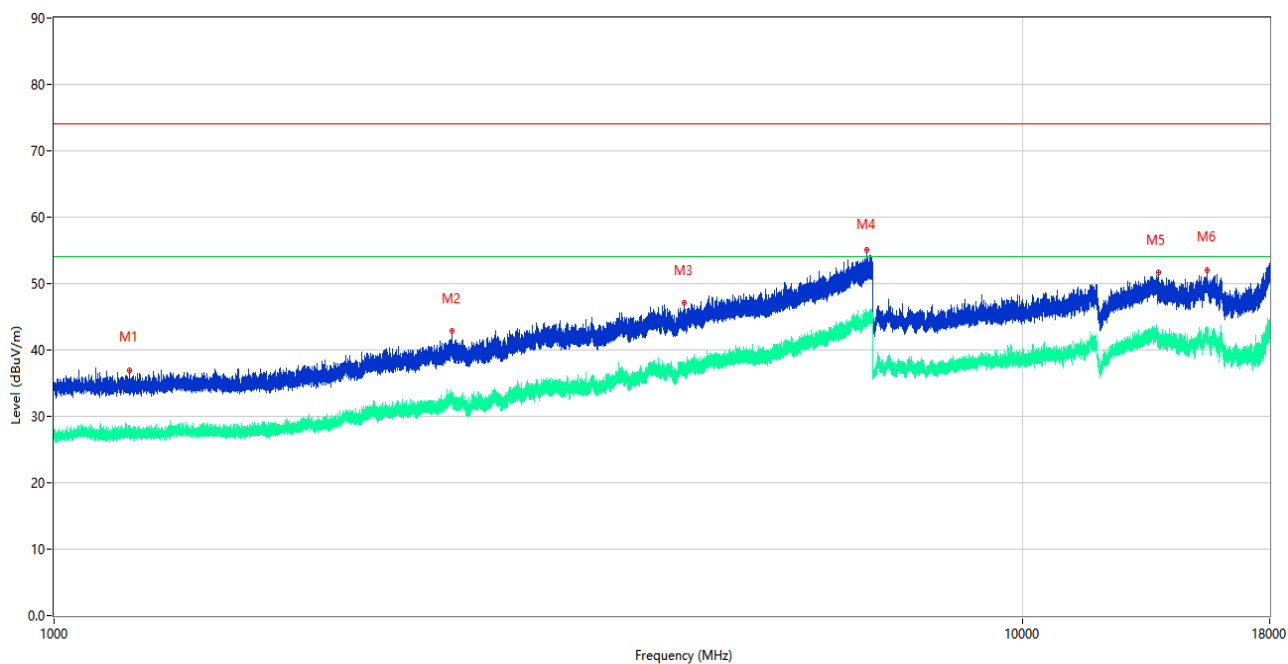
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.356	27.03	-25.63	40.0	12.97	Peak	256.00	200	Vertical	Pass
2	59.925	18.13	-26.03	40.0	21.87	Peak	41.00	100	Vertical	Pass
3	106.387	23.80	-25.92	43.5	19.70	Peak	354.00	100	Vertical	Pass
4	228.414	20.69	-25.47	46.0	25.31	Peak	222.00	100	Vertical	Pass
5	338.654	23.04	-21.97	46.0	22.96	Peak	247.00	100	Vertical	Pass
6	552.006	24.91	-16.91	46.0	21.09	Peak	325.00	200	Vertical	Pass
7	897.617	30.53	-8.75	46.0	15.47	Peak	222.00	200	Vertical	Pass

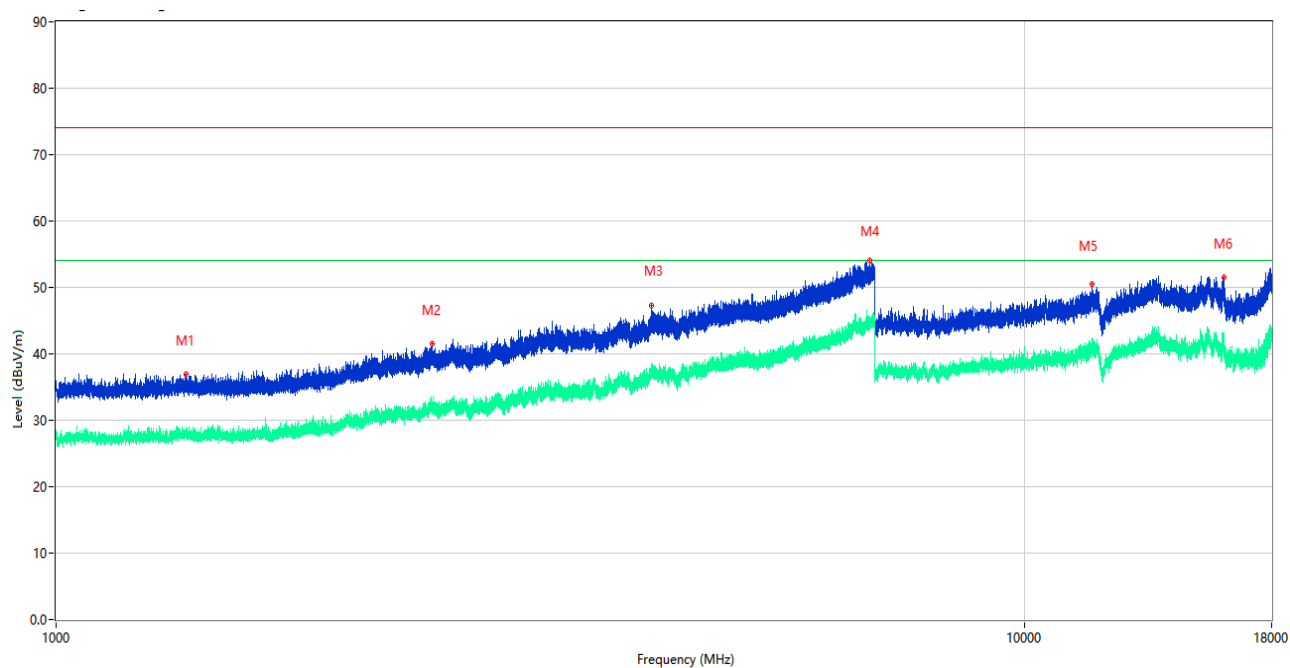
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25	☒
Test Antenna-Bi-Log	SCHWARZB ECK	VULB 9163	01414	2023.11.03	2026.11.02	☒
Anechoic Chamber	EMC Electronic Co., Ltd	C8-966	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 – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1195.910	36.95	-17.92	74.0	37.05	Peak	186.00	100	Horizontal	Pass
1**	1195.910	28.51	-17.92	54.0	25.49	AV	186.00	100	Horizontal	Pass
2	2574.040	42.80	-12.30	74.0	31.20	Peak	283.00	100	Horizontal	Pass
2**	2574.040	32.31	-12.30	54.0	21.69	AV	283.00	100	Horizontal	Pass
3	4472.100	47.08	-5.51	74.0	26.92	Peak	189.00	100	Horizontal	Pass
3**	4472.100	37.31	-5.51	54.0	16.69	AV	189.00	100	Horizontal	Pass
4	6901.740	55.03	0.59	74.0	18.97	Peak	34.00	100	Horizontal	Pass
4**	6901.740	43.70	0.59	54.0	10.30	AV	34.00	100	Horizontal	Pass
5	13817.250	51.70	5.07	74.0	22.30	Peak	56.00	100	Horizontal	Pass
5**	13817.250	41.86	5.07	54.0	12.14	AV	56.00	100	Horizontal	Pass
6	15498.050	52.09	6.87	74.0	21.91	Peak	159.00	100	Horizontal	Pass
6**	15498.050	42.93	6.87	54.0	11.07	AV	159.00	100	Horizontal	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	1362.440	37.03	-17.76	74.0	36.97	Peak	266.00	100	Vertical	Pass
1**	1362.440	27.86	-17.76	54.0	26.14	AV	266.00	100	Vertical	Pass
2	2446.380	41.56	-13.32	74.0	32.44	Peak	130.00	100	Vertical	Pass
2**	2446.380	32.05	-13.32	54.0	21.95	AV	130.00	100	Vertical	Pass
3	4114.590	47.31	-5.61	74.0	26.69	Peak	282.00	100	Vertical	Pass
3**	4114.590	36.31	-5.61	54.0	17.69	AV	282.00	100	Vertical	Pass
4	6925.540	54.03	0.69	74.0	19.97	Peak	323.00	100	Vertical	Pass
4**	6925.540	44.95	0.69	54.0	9.05	AV	323.00	100	Vertical	Pass
5	11733.850	50.47	5.44	74.0	23.53	Peak	93.00	100	Vertical	Pass
5**	11733.850	40.94	5.44	54.0	13.06	AV	93.00	100	Vertical	Pass
6	16074.450	51.47	7.45	74.0	22.53	Peak	82.00	100	Vertical	Pass
6**	16074.450	43.25	7.45	54.0	10.75	AV	82.00	100	Vertical	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Above 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25	☒
Test Antenna-Horn	SCHWARZBECK	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	/		☒

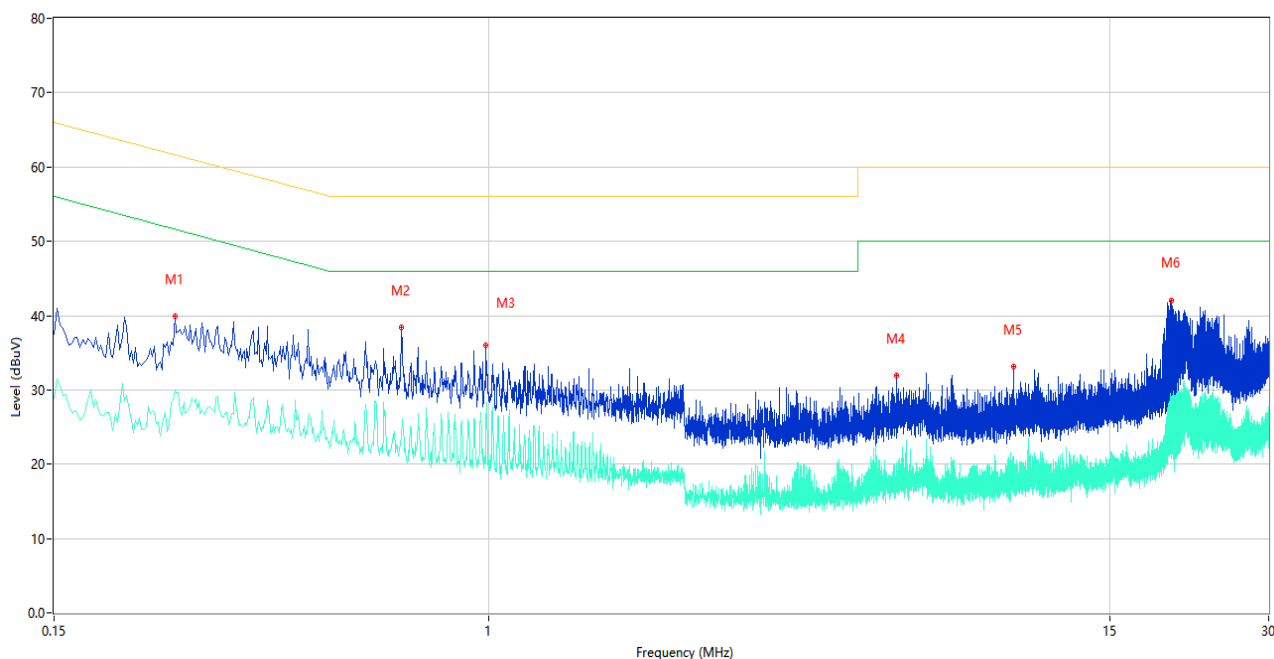
A.2 Conducted Emission, AC Ports

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.	S25	Temperature	22.5℃
Humidity	52%RH	Pressure	99.7kPa
Test Engineer	Tang Xuming	Test Date	2026.06.24

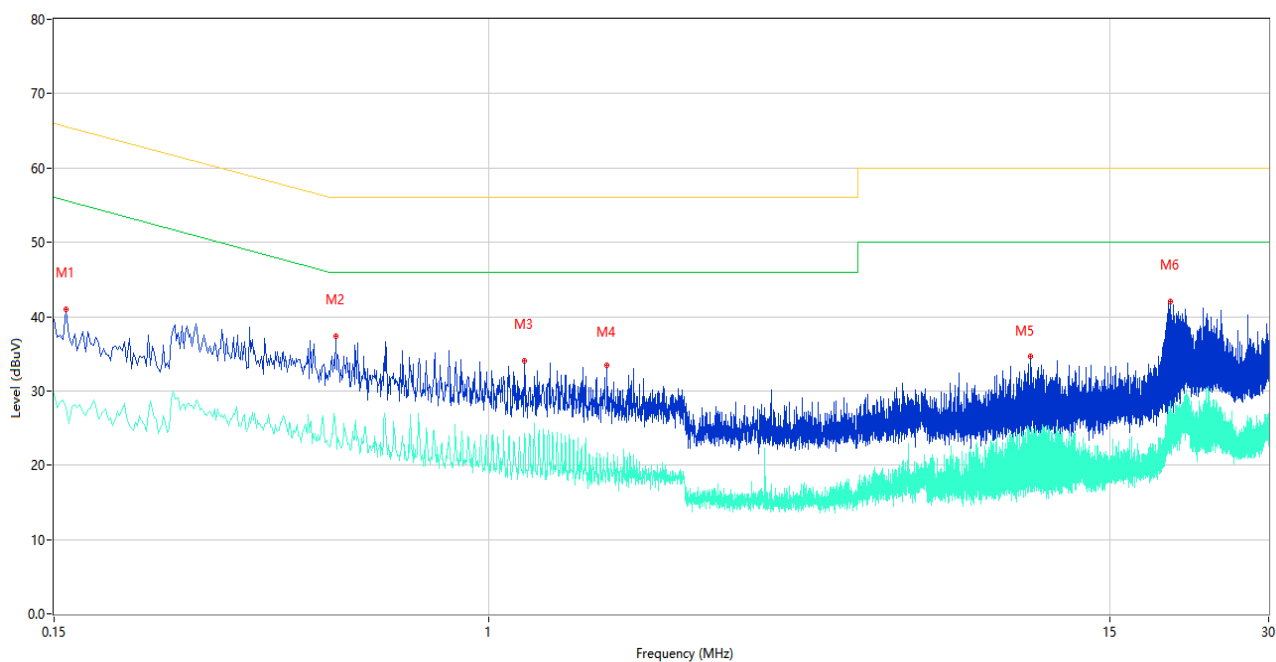
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.254	39.94	10.24	61.63	21.69	Peak	L	Pass
1**	0.254	29.91	10.24	51.63	21.72	AV	L	Pass
2	0.682	38.44	10.26	56.00	17.56	Peak	L	Pass
2**	0.682	23.84	10.26	46.00	22.16	AV	L	Pass
3	0.988	36.00	10.29	56.00	20.00	Peak	L	Pass
3**	0.988	25.42	10.29	46.00	20.58	AV	L	Pass
4	5.930	31.87	10.95	60.00	28.13	Peak	L	Pass
4**	5.930	18.97	10.95	50.00	31.03	AV	L	Pass
5	9.870	33.13	11.73	60.00	26.87	Peak	L	Pass
5**	9.870	17.98	11.73	50.00	32.02	AV	L	Pass
6	19.596	42.11	14.19	60.00	17.89	Peak	L	Pass
6**	19.596	28.64	14.19	50.00	21.36	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	41.00	10.18	65.57	24.57	Peak	N	Pass
1**	0.158	27.79	10.18	55.57	27.78	AV	N	Pass
2	0.512	37.34	10.17	56.00	18.66	Peak	N	Pass
2**	0.512	24.37	10.17	46.00	21.63	AV	N	Pass
3	1.168	34.04	10.22	56.00	21.96	Peak	N	Pass
3**	1.168	24.32	10.22	46.00	21.68	AV	N	Pass
4	1.674	33.45	10.27	56.00	22.55	Peak	N	Pass
4**	1.674	20.12	10.27	46.00	25.88	AV	N	Pass
5	10.638	34.60	11.83	60.00	25.40	Peak	N	Pass
5**	10.638	23.13	11.83	50.00	26.87	AV	N	Pass
6	19.514	42.04	14.21	60.00	17.96	Peak	N	Pass
6**	19.514	26.61	14.21	50.00	23.39	AV	N	Pass

Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.12.26	2026.12.25	☒
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	V22.930	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “Ti-CC26060357-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “Ti-CC26060357-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “Ti-CC26060357-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.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--