

# TEST REPORT

**Applicant:** TECNO MOBILE LIMITED

**Address:** ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD  
FINANCE CENTRE, HARBOUR  
CITY, HARBOUR Hong Kong

**Equipment Type:** Mobile Phone

**Model Name:** KM6

**Brand Name:** TECNO

**FCC ID:** 2ADYY-KM6

**Test Standard:** 47 CFR Part 15 Subpart C  
ANSI C63.10-2013

**Sample Receipt Date:** Mar. 26, 2025

**Test Date:** Mar. 31, 2025- Apr. 01, 2025

**Date of Issue:** May 20, 2025

## ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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**Revision History**

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 20, 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 Technical Information .....	6
3 SUMMARY OF TEST RESULTS .....	7
3.1 Test Standards .....	7
3.2 Verdict .....	7
3.3 Decision Rule .....	8
3.4 Test Uncertainty .....	8
4 GENERAL TEST CONFIGURATIONS .....	9
4.1 Test Environments .....	9
4.2 Description of Test Setup .....	10
5 TEST ITEMS .....	12
5.1 Antenna Requirements .....	12
5.2 Emission Bandwidth .....	13
5.3 Field Strength of Fundamental Emissions and Radiated Emissions .....	15
5.4 Frequency Tolerance .....	17
5.5 Conducted Emission .....	18
ANNEX A TEST RESULT .....	19
A.1 Emission Bandwidth .....	19

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A.2 Field Strength of Fundamental Emissions .....	21
A.3 Radiated Emissions .....	23
A.4 Frequency Stability .....	28
A.5 Conducted Emissions .....	30
ANNEX B TEST SETUP PHOTOS .....	32
ANNEX C EUT EXTERNAL PHOTOS .....	32
ANNEX D EUT INTERNAL PHOTOS .....	32

# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Address	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China

## 1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1352.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	TECNO MOBILE LIMITED
Address	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY,HARBOURHong Kong

### 2.2 Manufacturer Information

Manufacturer	TECNO MOBILE LIMITED
Address	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY,HARBOURHong Kong

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	KM6
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	163.67mm(L) × 75.87mm(W) × 6.85mm(H)
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/7/12/17/66 TDD LTE Band 38/41  LTE CA Uplink(UL) : CA_2C, CA_5B, CA_7C, CA_38C, CA_41C, CA_66C Bluetooth, 2.4G WIFI, 5G WIFI 5.8G SRD, GPS, GLONASS, BDS, Galileo, FM receiver, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Type	ASK
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Frequency Range	13.56 MHz
Receiver Categorization	3
Number of Channel	1
Tested Channel	1
Antenna Type	Coil Antenna

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C	Intentional Radiators
2	ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

#### 3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass <sup>Note</sup>
2	Emissions Bandwidth	15.215	ANNEX A.1	Pass
3	Field Strength of Fundamental Emissions	15.225(a)	ANNEX A.2	Pass
4	Radiated Emissions	15.225(d) 15.209	ANNEX A.3	Pass
5	Frequency Stability	15.225(e)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass

Note: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

### 3.3 Decision Rule

- ☐ No Need
- ☒ Use General conformity decision rule (Consider uncertainty or not ☒ No ☐ Yes)
- ☐ Use Special Conformity Decision Rule (Consider uncertainty or not ☐ No ☐ Yes)

### 3.4 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 (150 kHz-30 MHz)	2.6 dB
Radiated emissions (9 kHz-30 MHz)	4.3 dB
Radiated emissions (30 MHz-1 GHz)	4.4 dB
Radiated emissions (1 GHz-18 GHz)	5.2 dB



## 4 GENERAL TEST CONFIGURATIONS

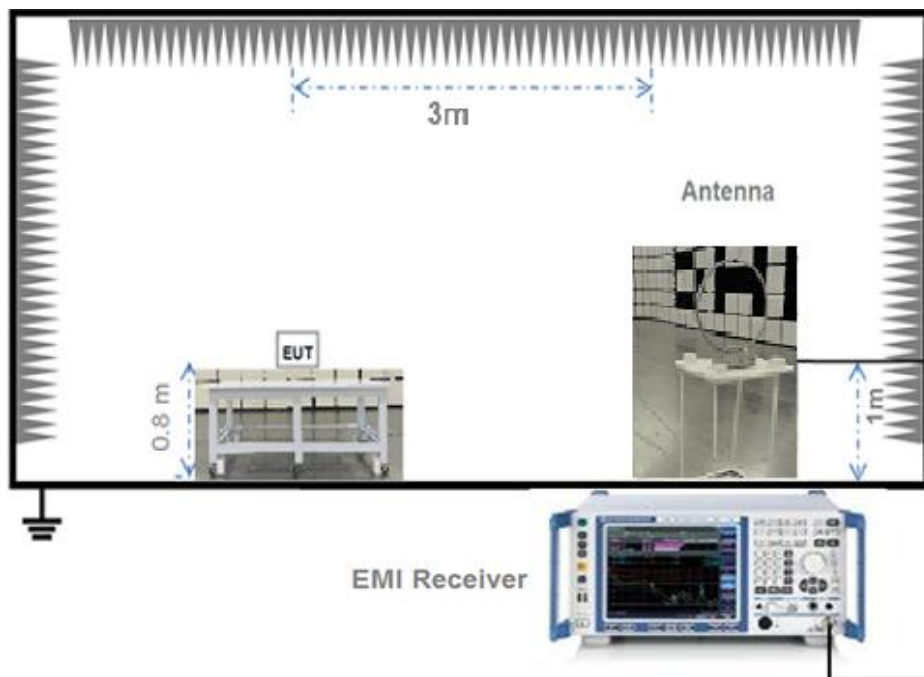
### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	30% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	3.92 V

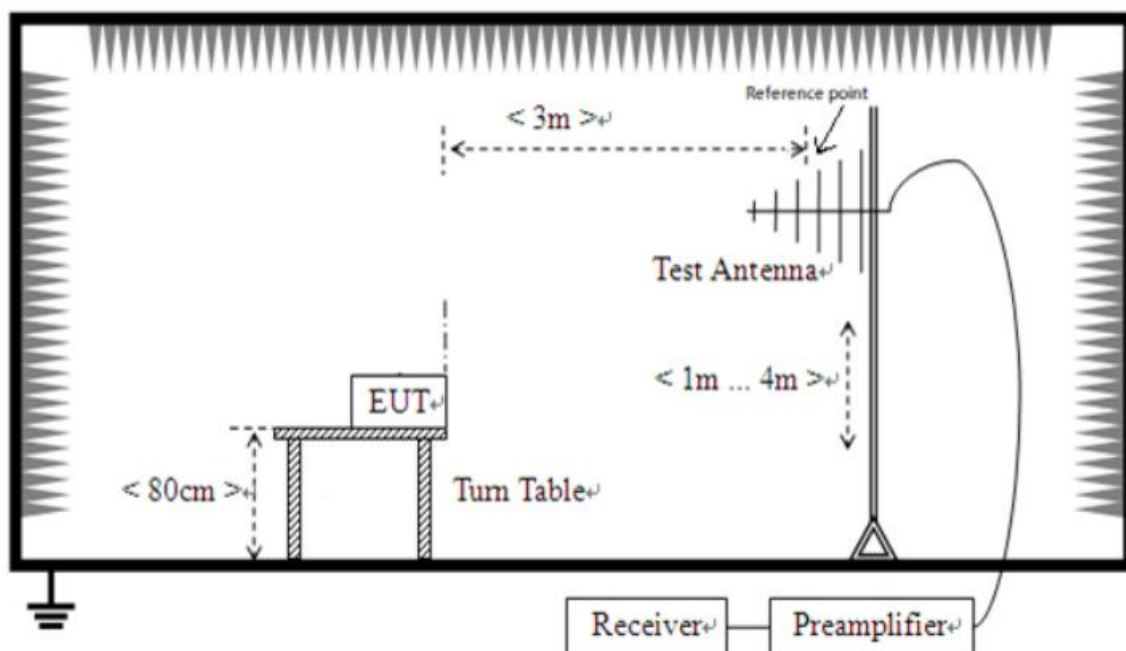
## 4.2 Description of Test Setup

### 4.2.1 For Radiated Test (Below 30 MHz)



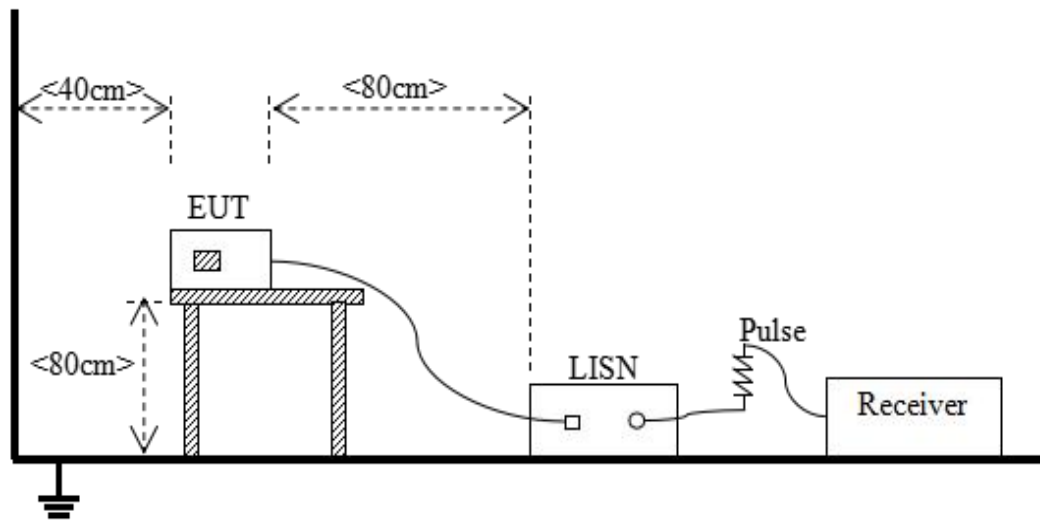
(Diagram 1)

### 4.2.2 For Radiated Test (30 MHz-1 GHz)



(Diagram 2)

## 4.2.3 For AC Power Supply Port Test



(Diagram 3)

## 5 TEST ITEMS

### 5.1 Antenna Requirements

#### 5.1.1 Relevant Standards

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

#### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer EUT internal photos.

## 5.2 Emission Bandwidth

### 5.2.1 Definition

15.215(c);

Intentional radiators operating under the alternative provisions to the general emission limits must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to "Sample". However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or "Max Hold") may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

### 5.2.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 2 to 5 times the OBW

RBW = 1% to 5% the OBW

VBW  $\geq$  3RBW

Sweep = auto

Detector function = peak

Trace = max hold

The 99% emission bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = between 1.5 to 5 times the OBW

RBW = 1% to 5% OBW

VBW  $\geq$  3RBW

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.2.4 Test Result

Please refer to ANNEX A.1

## 5.3 Field Strength of Fundamental Emissions and Radiated Emissions

### 5.3.1 Limit

FCC §15.225(a), (b), (c)

According to FCC section 15.225, for <30 MHz, Radiated emissions were measured according to ANSI C63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10 kHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated spurious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBμV/m) = 20log(X)+40log(30/3)= 20log(15848)+40log(30/3) = 124dBμV

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency range (MHz)	Field Strength@30m		Field Strength@10m	Field Strength@3m
	μV/m	dBμV/m	dBμV/m	dBμV/m
Below 13.110	30	29.5	48.58	69.5
13.110 ~ 13.410	106	40.5	59.58	80.5
13.410 ~ 13.553	334	50.5	69.58	90.5
13.553 ~13.567	15848	84	103.08	124
13.567 ~ 13.710	334	50.5	69.58	90.5
13.710 ~14.010	106	40.5	59.58	80.5
Above 14.010	30	29.5	48.58	69.5

NOTE:

1. Field Strength (dBμV/m) = 20\*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.

FCC §15.225(d)

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
2. For above 1000 MHz, limit field strength of harmonics: 54dB $\mu$ V/m@3m (AV) and 74dB $\mu$ V/m@3m (PK).

### 5.3.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. 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. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

### 5.3.4 Test Result

Please refer to ANNEX A.2 and A.3

NOTE:

1. Results (dB $\mu$ V/m) = Reading (dB $\mu$ V/m) + 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. Over limit = Results – Limit.



## 5.4 Frequency Tolerance

### 5.4.1 Limit

FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 5.4.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

### 5.4.4 Test Result

Please refer to ANNEX A.4.

## 5.5 Conducted Emission

### 5.5.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

### 5.5.2 Test Setup

See section 4.1.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

### 5.5.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels 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. Refer to recorded points and plots below.

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.

### 5.5.4 Test Result

Please refer to ANNEX A.5.

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. Over limit = Results – Limit.

## ANNEX A TEST RESULT

### A.1 Emission Bandwidth

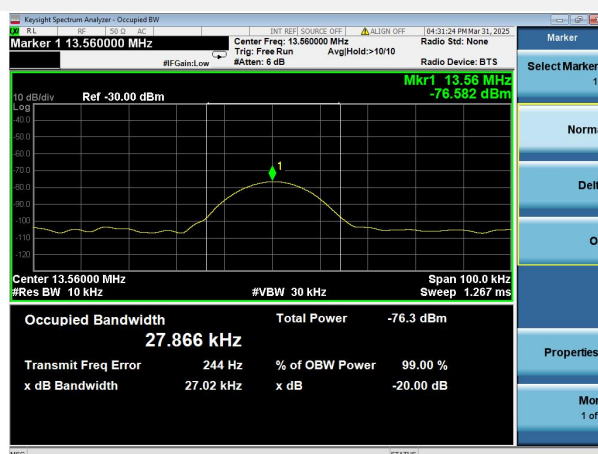
Sample No.	S01	Temperature	22.3°C
Humidity	50%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Chai Yong	Test Date	2025.04.01

#### Test Data

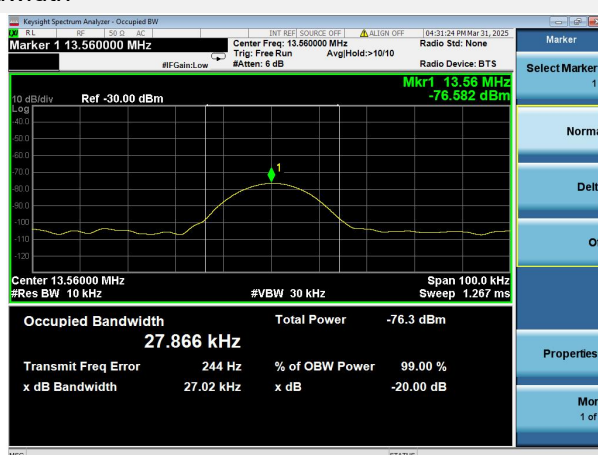
Frequency (MHz)	Emission Bandwidth(20dB down) (kHz)	Occupied Bandwidth(99%) (kHz)
13.56	27.02	27.866

#### Test plots

##### Emission Bandwidth



##### 99% Occupied Bandwidth



Equipment Information						
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	<input checked="" type="checkbox"/>
Test Antenna- Loop	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	<input checked="" type="checkbox"/>

## A.2 Field Strength of Fundamental Emissions

Note: Field Strength of Fundamental Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

Sample No.	S01	Temperature	25.4°C
Humidity	42%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.03.31

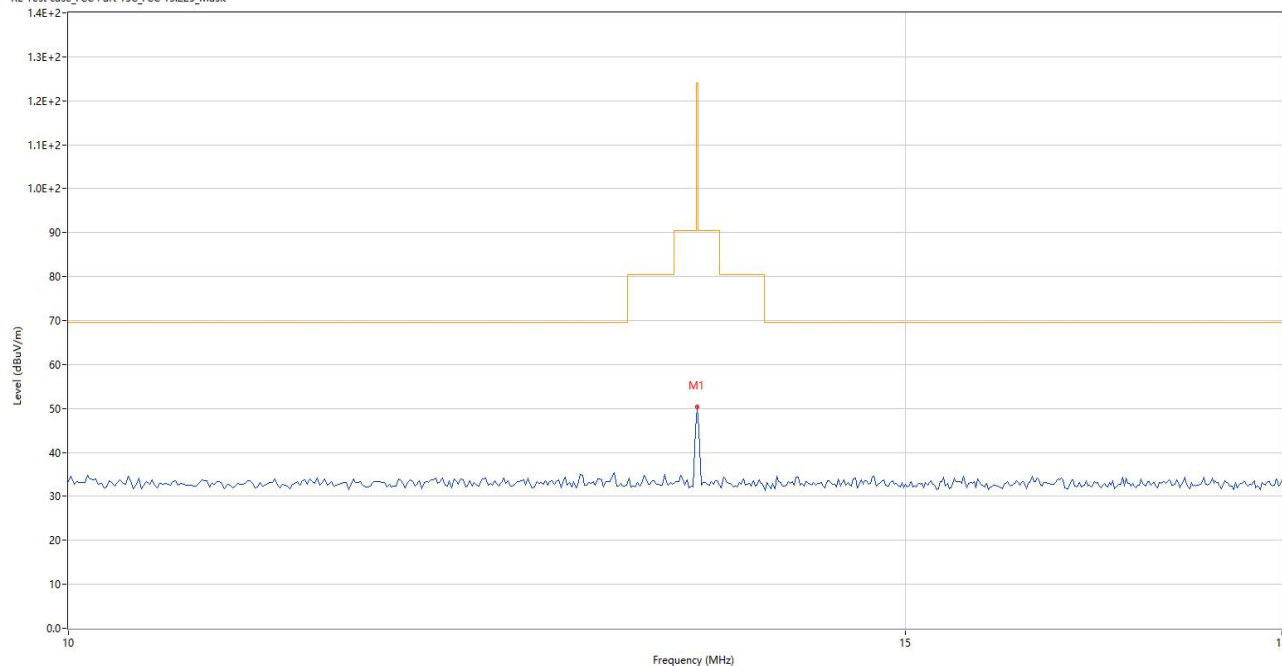
### Test Data

Field Strength of Fundamental Emissions Value					
Frequency (MHz)	Detector	Field Strength (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	EUT	Margin (dB)
13.560	PEAK	50.31	124.0	X axis	73.69

### Test Plot

#### Test Antenna-LOOP, EUT X axis

RE Test case\_FCC Part 15C\_FCC 15.225\_Mask



Equipment Information						
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	<input checked="" type="checkbox"/>
Test Antenna- Loop	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	<input checked="" type="checkbox"/>
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		<input checked="" type="checkbox"/>

## A.3 Radiated Emissions

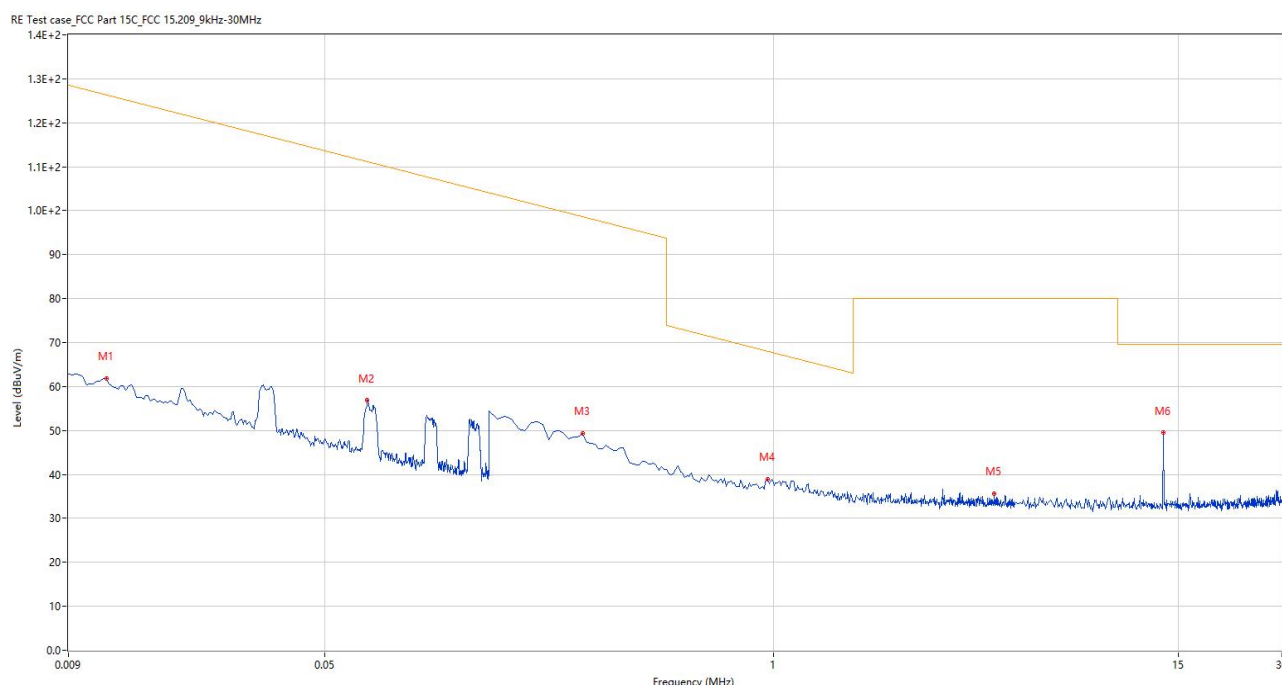
Note 1: This frequency which near 13.560 MHz with circle should be ignored because they are NFC carrier frequency.

Note 2: All Radiated Emissions tests were performed in X, Y, Z axis direction of EUT. And only the worst axis test condition was recorded in this test report.

Sample No.	S01	Temperature	25.4°C
Humidity	42%RH	Test Voltage	AC 120V/60Hz
Test Engineer	She Xihao	Test Date	2025.03.31

The Data and Plots (9 kHz ~ 30 MHz)(at 3m chamber)

Below 30 MHz, Test Antenna LOOP, EUT X axis



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	0.012	61.76	19.85	126.3	64.54	Peak	348.00	100	Vertical	Pass
2	0.066	56.88	19.17	111.2	54.32	Peak	89.00	200	Vertical	Pass
3	0.279	49.28	19.00	98.7	49.42	Peak	120.00	200	Vertical	Pass
4	0.966	38.80	19.05	67.9	29.10	Peak	148.00	200	Vertical	Pass
5	4.386	35.64	19.49	80.0	44.36	Peak	12.00	200	Vertical	Pass
6	13.542	49.43	19.21	69.5	20.07	Peak	179.00	200	Vertical	Pass

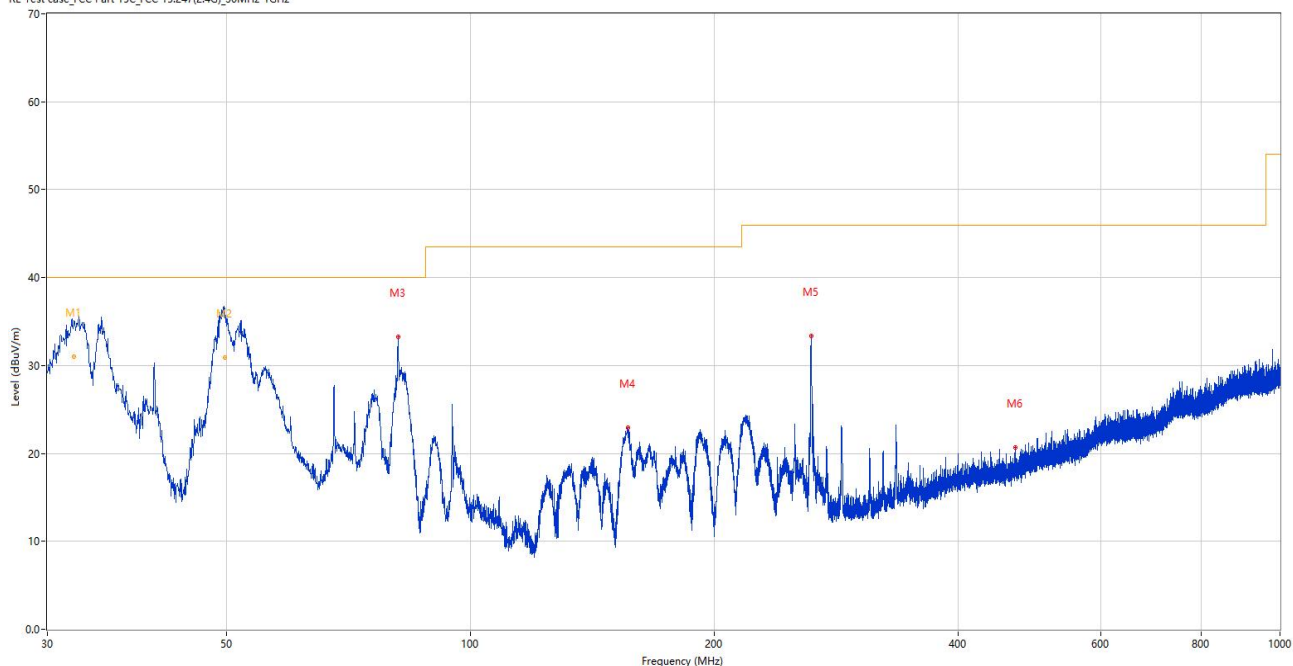
Equipment Information						
Description	Manufacturer	Model	Equipment No	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	<input checked="" type="checkbox"/>
Test Antenna-Loop	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	<input checked="" type="checkbox"/>
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		<input checked="" type="checkbox"/>



## Test Data and Plots (30 MHz ~ 10th Harmonic)

### 30 MHz to 1 GHz, Test Antenna Vertical, EUT X axis

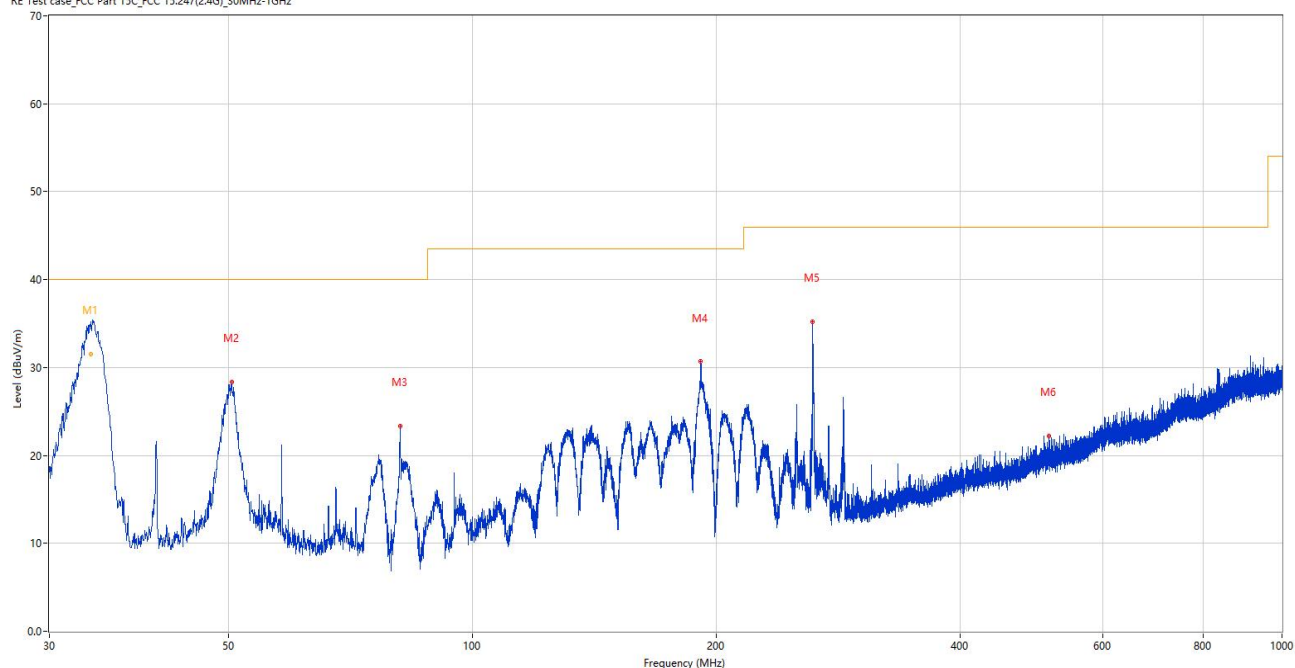
RE Test case\_FCC Part 15C\_FCC 15.247(2.4G)\_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	32.329	35.47	-28.47	40.0	4.53	Peak	152.00	105	Vertical	N/A
1*	32.329	31.01	-28.47	40.0	8.99	QP	152.00	105	Vertical	Pass
2	49.696	35.59	-24.53	40.0	4.41	Peak	316.00	104	Vertical	N/A
2*	49.696	30.93	-24.53	40.0	9.07	QP	316.00	104	Vertical	Pass
3	81.362	33.23	-30.76	40.0	6.77	Peak	359.00	100	Vertical	Pass
4	156.440	22.91	-29.13	43.5	20.59	Peak	36.00	100	Vertical	Pass
5	263.431	33.41	-24.14	46.0	12.59	Peak	36.00	200	Vertical	Pass
6	470.622	20.69	-19.06	46.0	25.31	Peak	132.00	200	Vertical	Pass

## 30 MHz to 1 GHz, Test Antenna Horizontal, EUT X axis

RE Test case\_FCC Part 15C\_FCC 15.247(2.4G)\_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.742	35.47	-28.16	40.0	4.53	Peak	320.00	121	Horizontal	N/A
1*	33.742	31.51	-28.16	40.0	8.49	QP	320.00	121	Horizontal	Pass
2	50.370	28.39	-24.53	40.0	11.61	Peak	29.00	100	Horizontal	Pass
3	81.362	23.35	-30.76	40.0	16.65	Peak	60.00	200	Horizontal	Pass
4	191.456	30.66	-26.12	43.5	12.84	Peak	277.00	100	Horizontal	Pass
5	263.237	35.20	-24.13	46.0	10.80	Peak	277.00	100	Horizontal	Pass
6	515.000	22.25	-17.71	46.0	23.75	Peak	12.00	200	Horizontal	Pass

Radiated Emissions						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	BH-EMC-L132	2024.03.11	2027.03.10	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V21.919		<input checked="" type="checkbox"/>

## A.4 Frequency Stability

Note 1: Because the 85%(3.332V) of the rated supply voltage value exceeds the cut-off lower(3.45V) limit of the manufacturer, the cut-off voltage of EUT is test here.

Note 2: The operating temperature range of the EUT is -20°C to 55°C.

Sample No.	S01	Temperature	22.3°C
Humidity	50%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Chai Yong	Test Date	2025.04.01

OPERATING FREQUENCY:	13560000 Hz
REFERENCE VOLTAGE:	3.92 V
DEVIATION LIMIT:	±0.01%

VOLTAGE (%)	Test Conditions		Frequency(Hz)	Deviation(%)	Verdict
	Power (VDC)	Temperature (°C)			
100	3.92	-20	13559792	-0.001534	Pass
100		-10	13559792	-0.001534	
100		0	13560000	0.000000	
100		+10	13560000	0.000000	
100		+20	13560000	0.000000	
100		+25	13559792	-0.001534	
100		+30	13560000	0.000000	
100		+40	13560000	0.000000	
100		+50	13560025	0.000184	
MAX(Battery End Point, 85)	3.332	+20	13560025	0.000184	
MIN(Battery End Point, 115)	4.53	+20	13559792	-0.001534	

Equipment Information						
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	<input checked="" type="checkbox"/>
Test Antenna- Loop	SCHWARZBECK	FMZB 1519B	BH-EMC-L067	2024.03.11	2027.03.10	<input checked="" type="checkbox"/>
Temperature Chamber	YOMA	DTL-0035	TJ8980-012	2024.04.12	2025.04.12	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	<input checked="" type="checkbox"/>

## A.5 Conducted Emissions

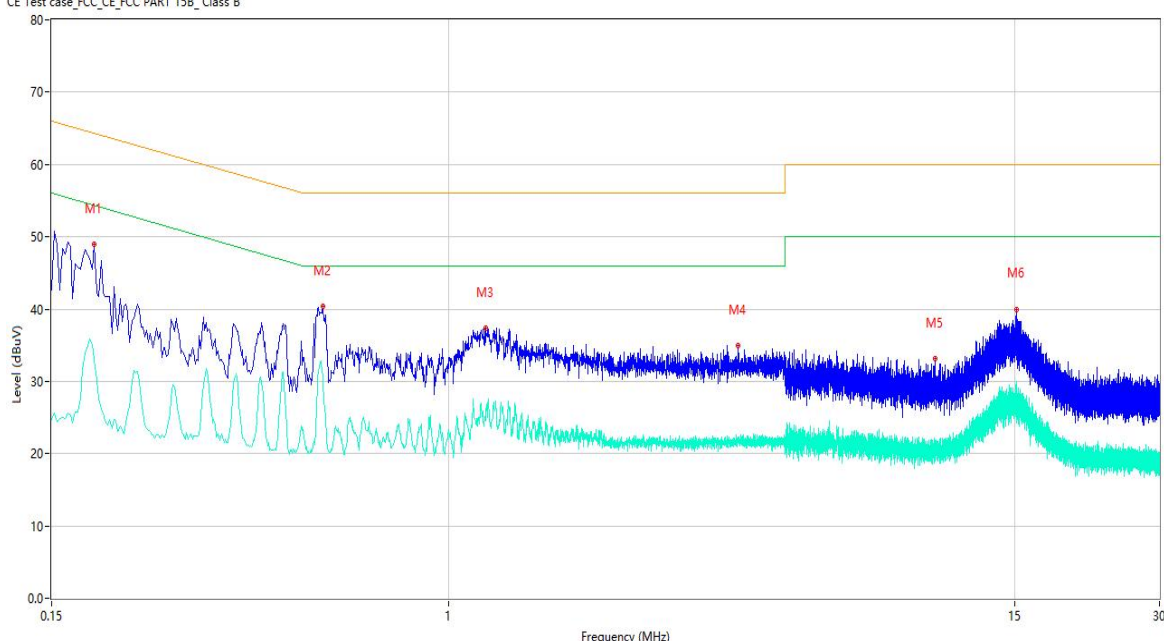
Note 1: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

Sample No.	SC-SH2530103-S01	Temperature	22.3°C
Humidity	51%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Xu Ying	Test Date	2025.04.01

### Test Data and Plots

#### PHASE L

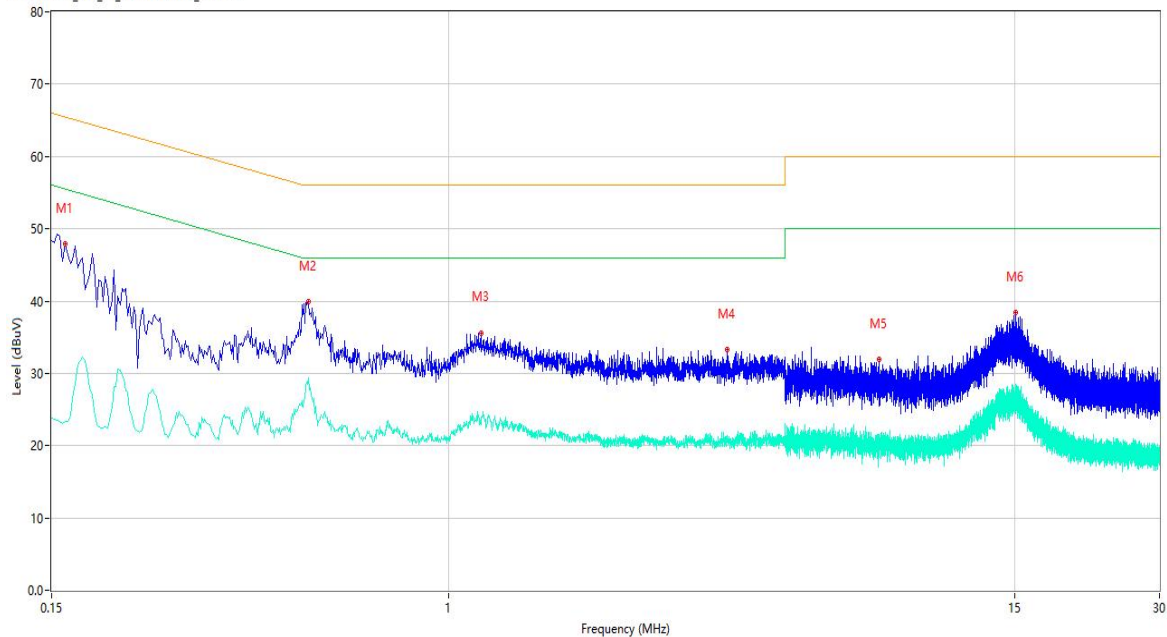
CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.184	48.97	9.79	64.30	15.33	Peak	L	Pass
1**	0.184	32.95	9.79	54.30	21.35	AV	L	Pass
2	0.548	40.37	9.76	56.00	15.63	Peak	L	Pass
2**	0.548	30.84	9.76	46.00	15.16	AV	L	Pass
3	1.196	37.40	9.76	56.00	18.60	Peak	L	Pass
3**	1.196	24.89	9.76	46.00	21.11	AV	L	Pass
4	3.996	34.94	9.62	56.00	21.06	Peak	L	Pass
4**	3.996	22.07	9.62	46.00	23.93	AV	L	Pass
5	10.254	33.15	9.15	60.00	26.85	Peak	L	Pass
5**	10.254	21.86	9.15	50.00	28.14	AV	L	Pass
6	15.124	39.98	8.92	60.00	20.02	Peak	L	Pass
6**	15.124	28.89	8.92	50.00	21.11	AV	L	Pass

# PHASE N

CE Test case\_FCC\_CE\_FCC PART 15B\_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.160	47.88	9.82	65.46	17.58	Peak	N	Pass
1**	0.160	23.40	9.82	55.46	32.06	AV	N	Pass
2	0.512	39.89	9.77	56.00	16.11	Peak	N	Pass
2**	0.512	29.42	9.77	46.00	16.58	AV	N	Pass
3	1.168	35.61	9.77	56.00	20.39	Peak	N	Pass
3**	1.168	23.92	9.77	46.00	22.08	AV	N	Pass
4	3.788	33.29	9.61	56.00	22.71	Peak	N	Pass
4**	3.788	21.10	9.61	46.00	24.90	AV	N	Pass
5	7.850	32.01	9.30	60.00	27.99	Peak	N	Pass
5**	7.850	21.08	9.30	50.00	28.92	AV	N	Pass
6	15.064	38.37	8.92	60.00	21.63	Peak	N	Pass
6**	15.064	28.52	8.92	50.00	21.48	AV	N	Pass

Equipment Information						
Description	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	TJEMC144	2024.04.06	2025.04.05	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10	<input checked="" type="checkbox"/>
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10	<input checked="" type="checkbox"/>
Shielded Room	YiHeng	5m*4m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V19.618		<input checked="" type="checkbox"/>

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SH2530273-AE-1.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SH2530273-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SH2530273-AI.PDF”.



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--END OF REPORT--