

TEST REPORT

Applicant: SG Wireless Limited
Address: Unit 4, 5/F, Sun Fung Industrial Building, 8 Ma Kok Street, Tsuen Wan, New Territories, Hong Kong
Equipment Type: F1 Smart Module
Model Name: SGW3431
Brand Name: SG Wireless
FCC ID: 2AS9411
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jun. 15, 2024
Test Date: Jun. 20, 2024
Date of Issue: May 22, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li JunFeng

Checked by: Liu Zhenxiang

Approved by: Tolan Tu
(Testing Director)

Li JunFeng

Liu Zhenxiang

Tolan Tu

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 22, 2025</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	SG Wireless Limited
Address	Unit 4, 5/F, Sun Fung Industrial Building, 8 Ma Kok Street, Tsuen Wan, New Territories, Hong Kong

2.2 Manufacturer Information

Manufacturer	SG Wireless Limited
Address	Unit 4, 5/F, Sun Fung Industrial Building, 8 Ma Kok Street, Tsuen Wan, New Territories, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	F1 Smart Module
Model Name Under Test	SGW3431
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	1.2.3
Software Version	B0.2.0b0
Dimensions (Approx.)	N/A
Weight (Approx.)	4.6g

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and Wireless connectivity	4G Network FDD LTE-M1 Band 2/4/5/12/13/14/17/18/19/25/26/66/71/85 FDD NB-IoT Band 2/4/5/12/13/14/17/18/19/25/26/66/71/85 Bluetooth (BLE) WIFI 802.11b, 802.11g, 802.11n(HT20/40)
Classification of equipment	Class B
The highest internal frequency of EUT	2480 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
RF Cable	N/A	N/A	N/A	30cm	N/A	☒
2.4G Antenna	N/A	JZC-RPF-N-ZBG196	N/A	196*13mm	N/A	☒
LTE Antenna	N/A	HX-AP4G-19513-D1	N/A	195*13mm	N/A	☒
Adapter	OPPO	AK931JH	N/A	N/A	N/A	☒
USB Cable	UGREEN	L1	N/A	N/A	1m	☒
PCB Board	SG Wireless	F1 STARTER KIT	Wi-Fi:7C:51:89:02:03:4C	N/A	CB-23036-01-V00	☒

4.2 Test Configurations

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

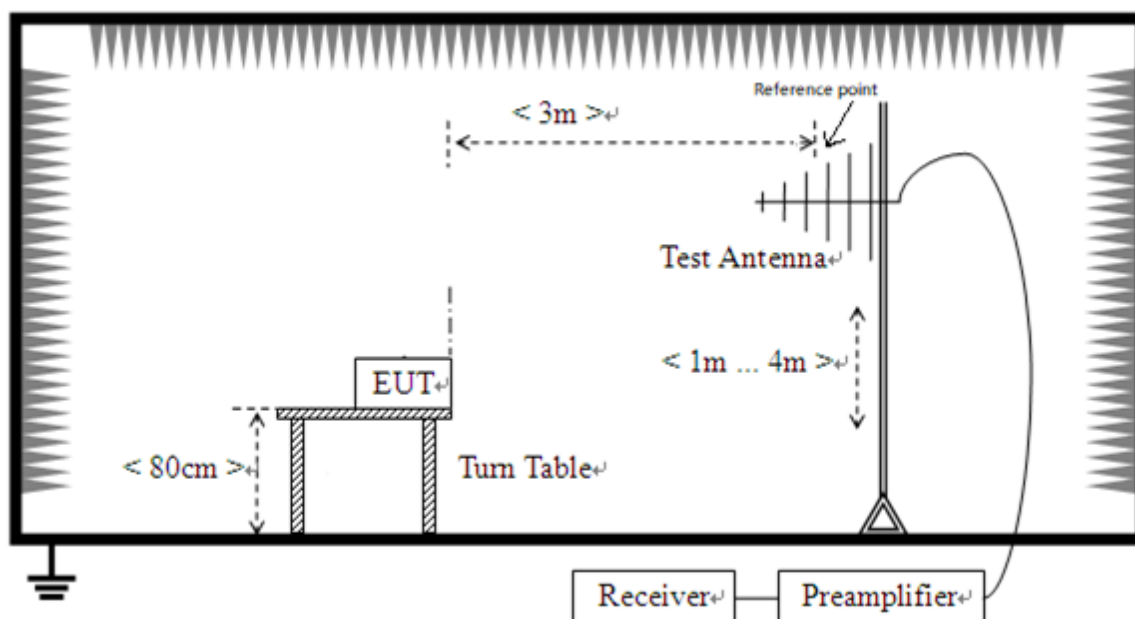
Test Mode Configuration	Description
Mode 1	<u>The Standby Test Mode</u> EUT + Adapter + USB Cable + PCB Board + RF Cable + 2.4G Antenna + LTE Antenna
Mode 2	<u>The Normal Operating Test Mode</u> EUT + Adapter + USB Cable + PCB Board + RF Cable + 2.4G Antenna + LTE Antenna

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

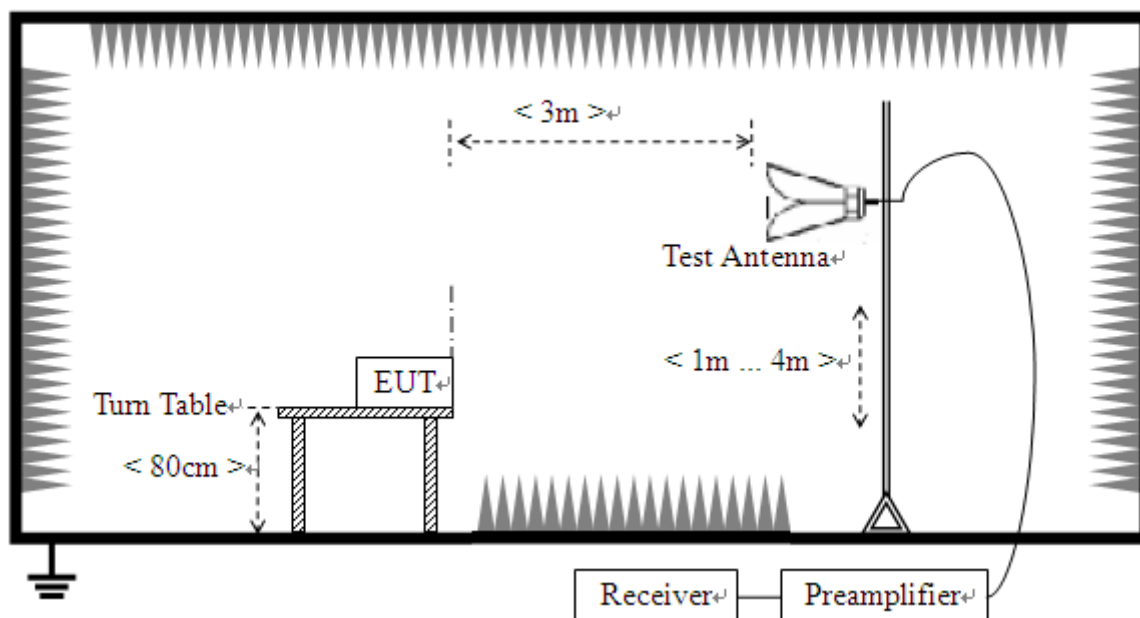
Note: All operation modes were tested, but only test data of the worst mode was presented in this report.

4.3 Test Setups

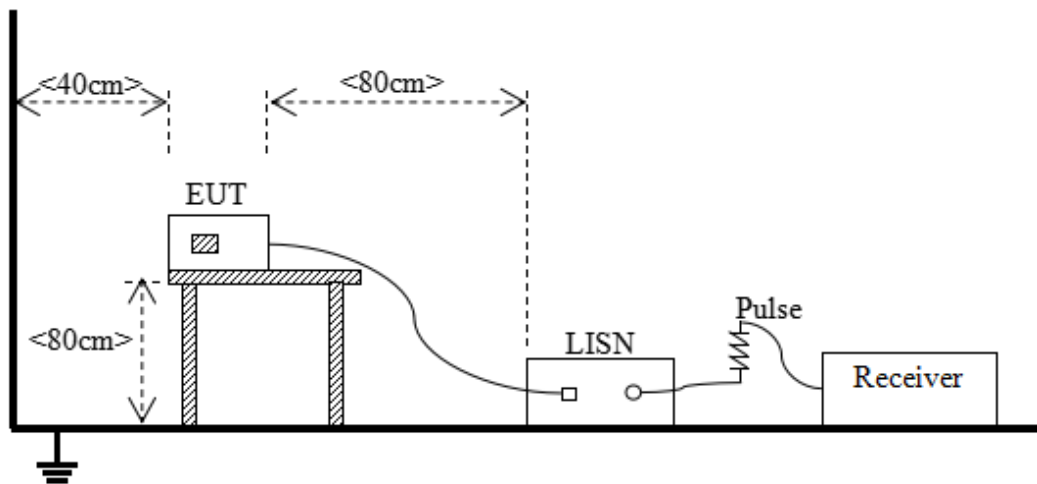
Test Setup 1



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 (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

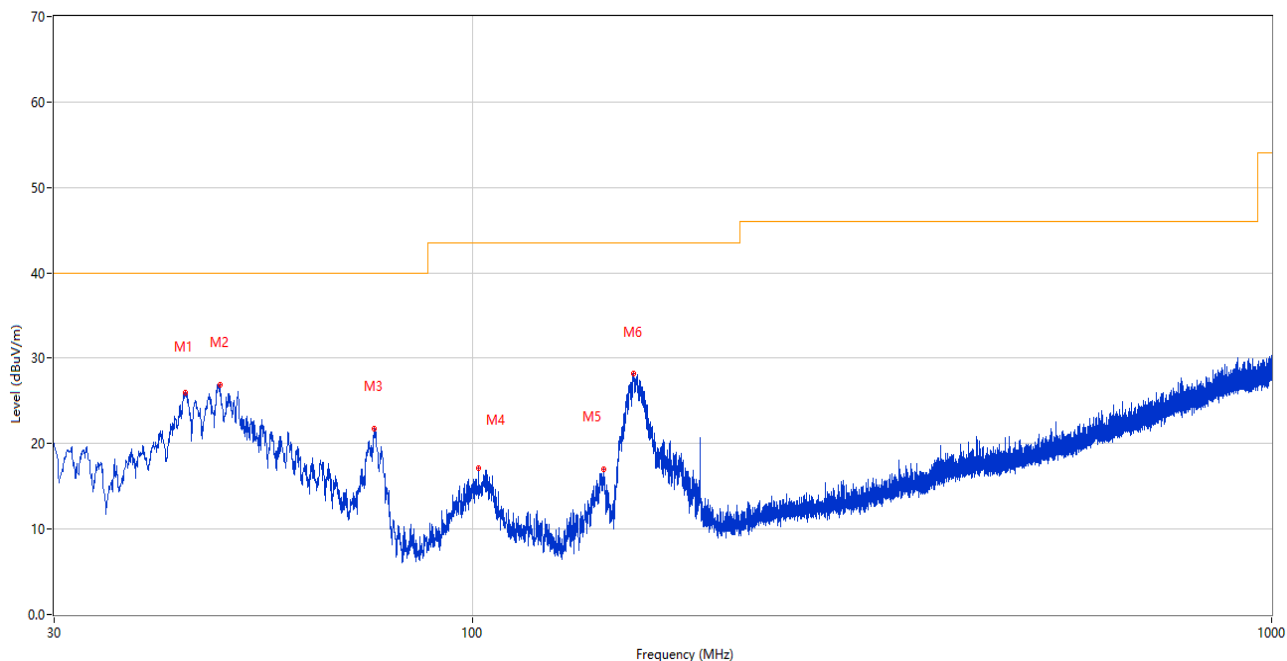
Note 1: The symbol of "--" in the table which means not application.

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.	S03	Temperature	22.6℃
Humidity	43%RH	Pressure	101kPa
Test Engineer	He Shichang	Test Date	2024.06.20

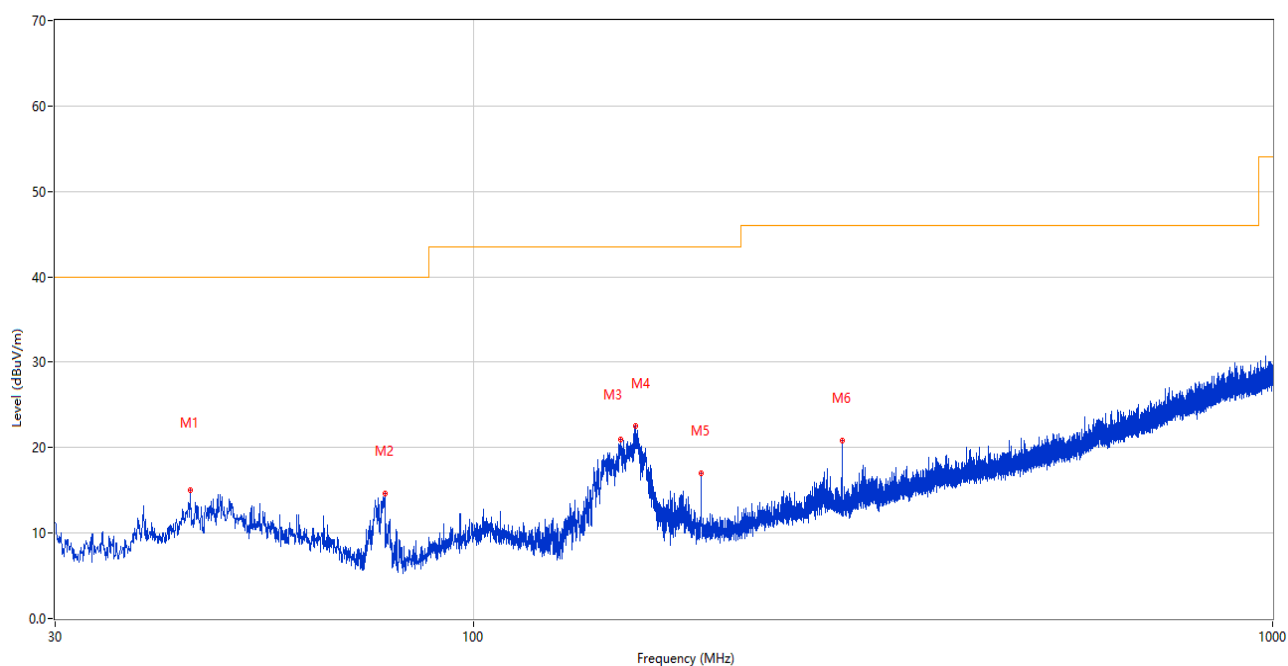
Test Mode 2

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	43.822	25.98	-25.74	40.0	14.02	Peak	190.00	100	Vertical	Pass
2	48.333	26.91	-25.37	40.0	13.09	Peak	193.00	100	Vertical	Pass
3	75.445	21.76	-31.07	40.0	18.24	Peak	84.00	100	Vertical	Pass
4	101.828	17.16	-26.67	43.5	26.34	Peak	245.00	100	Vertical	Pass
5	146.158	17.00	-30.22	43.5	26.50	Peak	360.00	100	Vertical	Pass
6	159.398	28.15	-29.61	43.5	15.35	Peak	281.00	100	Vertical	Pass

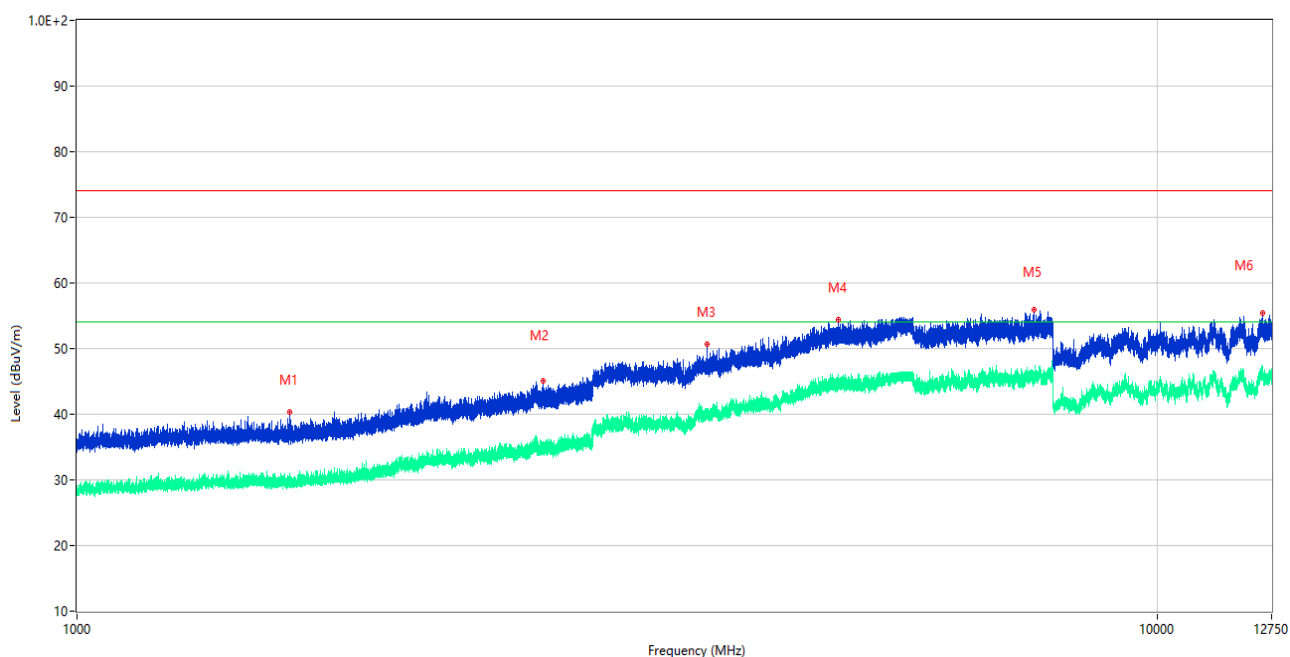
2) Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	44.259	15.06	-25.73	40.0	24.94	Peak	77.00	100	Horizontal	Pass
2	77.578	14.66	-31.11	40.0	25.34	Peak	122.00	200	Horizontal	Pass
3	153.093	20.90	-29.85	43.5	22.60	Peak	137.00	200	Horizontal	Pass
4	159.640	22.56	-29.60	43.5	20.94	Peak	360.00	200	Horizontal	Pass
5	192.912	17.06	-27.08	43.5	26.44	Peak	225.00	100	Horizontal	Pass
6	289.233	20.78	-23.93	46.0	25.22	Peak	82.00	100	Horizontal	Pass

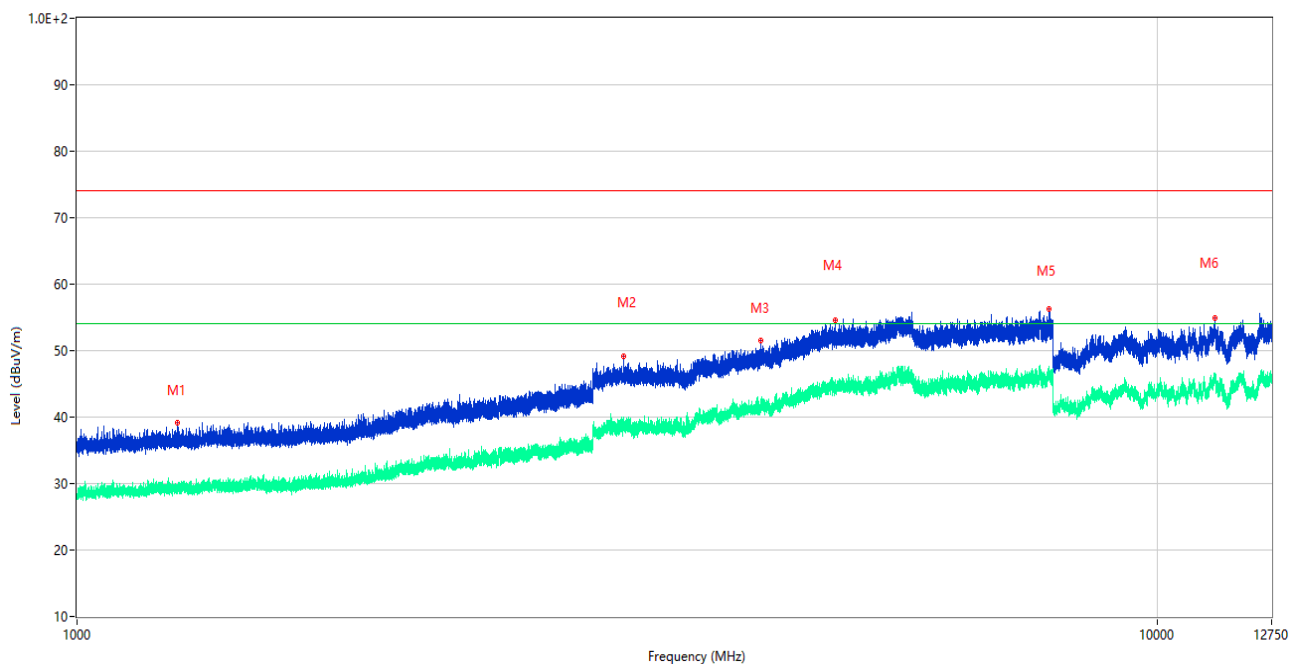
Equipment Information						
Equipment Name	Supplier	Model	Serial No.	Cal. Date	Cal. Due	Use
Frequency Below 1 GHz						
EMI Receiver	Keysight	N9038A	MY55330120	2023.09.05	2024.09.04	☒
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04	☒
Test Antenna- Bi-Log	SCHWARZB ECK	VULB 9168	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 – 12.75 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.600	40.29	-15.97	74.0	33.71	Peak	289.00	100	Vertical	Pass
1**	1572.600	29.39	-15.97	54.0	24.61	AV	289.00	100	Vertical	Pass
2	2701.300	45.16	-9.62	74.0	28.84	Peak	261.00	100	Vertical	Pass
2**	2701.300	34.66	-9.62	54.0	19.34	AV	261.00	100	Vertical	Pass
3	3830.750	50.60	-2.33	74.0	23.40	Peak	157.00	100	Vertical	Pass
3**	3830.750	39.31	-2.33	54.0	14.69	AV	157.00	100	Vertical	Pass
4	5064.500	54.37	1.51	74.0	19.63	Peak	274.00	100	Vertical	Pass
4**	5064.500	44.57	1.51	54.0	9.43	AV	274.00	100	Vertical	Pass
5	7684.500	55.91	1.94	74.0	18.09	Peak	234.00	100	Vertical	Pass
5**	7684.500	44.69	1.94	54.0	9.31	AV	234.00	100	Vertical	Pass
6	12515.000	55.35	2.88	74.0	18.65	Peak	99.00	100	Vertical	Pass
6**	12515.000	46.22	2.88	54.0	7.78	AV	99.00	100	Vertical	Pass

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	1239.300	39.13	-16.20	74.0	34.87	Peak	240.00	100	Horizontal	Pass
1**	1239.300	29.14	-16.20	54.0	24.86	AV	240.00	100	Horizontal	Pass
2	3208.500	49.09	-4.87	74.0	24.91	Peak	22.00	100	Horizontal	Pass
2**	3208.500	39.95	-4.87	54.0	14.05	AV	22.00	100	Horizontal	Pass
3	4290.750	51.47	-0.85	74.0	22.53	Peak	136.00	100	Horizontal	Pass
3**	4290.750	40.82	-0.85	54.0	13.18	AV	136.00	100	Horizontal	Pass
4	5030.000	54.54	1.50	74.0	19.46	Peak	202.00	100	Horizontal	Pass
4**	5030.000	44.51	1.50	54.0	9.49	AV	202.00	100	Horizontal	Pass
5	7938.500	56.24	3.28	74.0	17.76	Peak	32.00	100	Horizontal	Pass
5**	7938.500	46.06	3.28	54.0	7.94	AV	32.00	100	Horizontal	Pass
6	11299.500	54.87	2.40	74.0	19.13	Peak	337.00	100	Horizontal	Pass
6**	11299.500	45.81	2.40	54.0	8.19	AV	337.00	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	☒
Amplifier (18-40GHz)	COM-MV	KA LNA18- 40G-01	18050001	2023.12.05	2024.12.04	☒
Test Antenna- Horn	SCHWARZB ECK	BBHA 9120D	01917	2022.06.09	2025.06.08	☒
Test Antenna- Horn	A-INFOMW	LB- 180400KF	J211060273	2021.07.02	2024.07.01	☒
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	/		☒

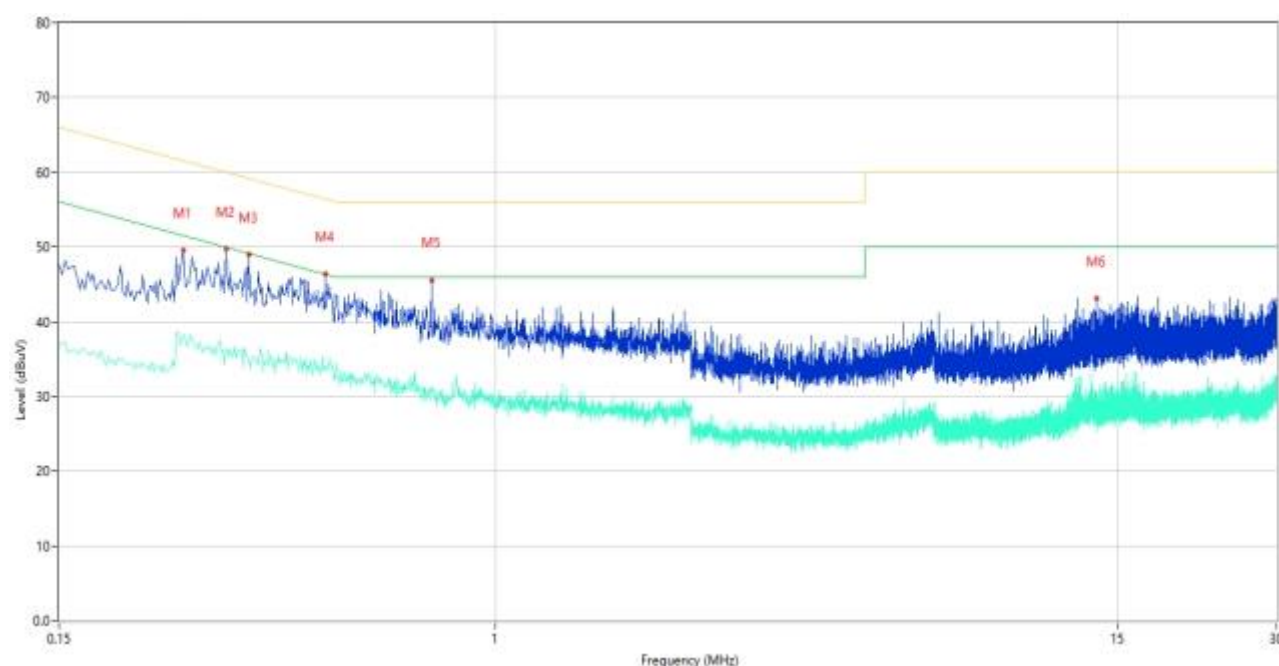
A.2 Conducted Emission, AC Ports

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.	S03	Temperature	22.9℃
Humidity	49%RH	Pressure	101kPa
Test Engineer	Yang Yang	Test Date	2024.06.20

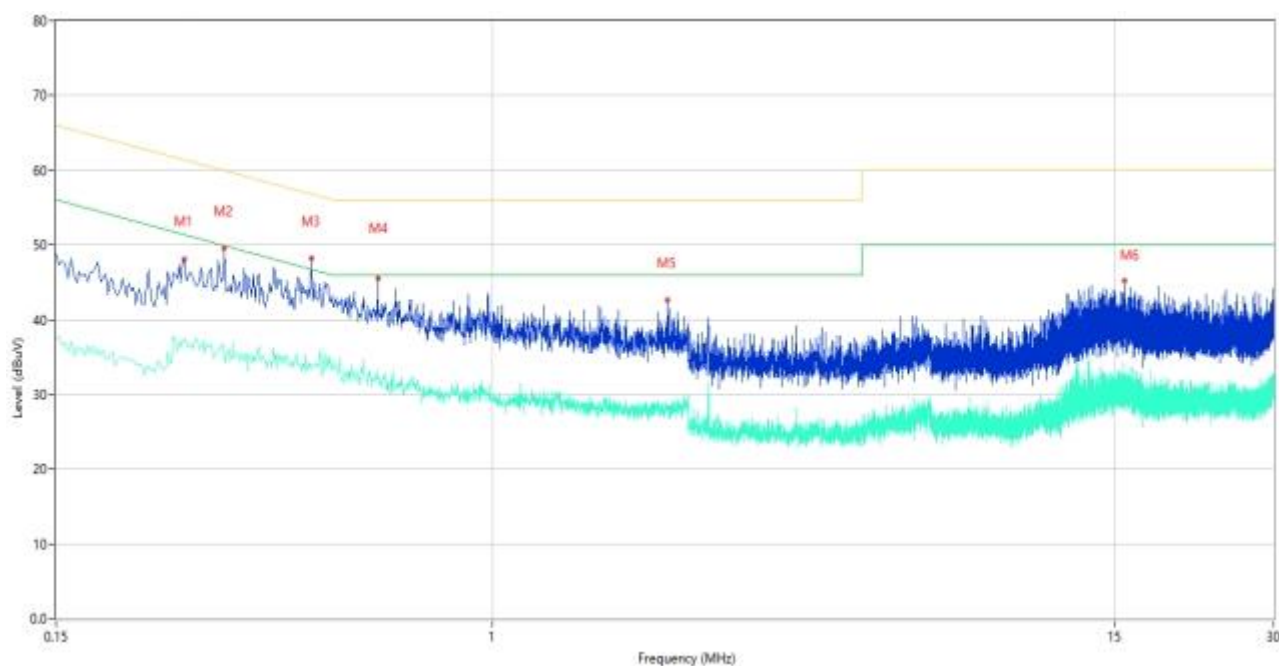
Test Mode 2

1) AC Ports - L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.258	49.49	19.45	61.50	12.01	Peak	L	Pass
1**	0.258	38.24	19.45	51.50	13.26	AV	L	Pass
2	0.310	49.71	19.44	59.97	10.26	Peak	L	Pass
2**	0.310	36.03	19.44	49.97	13.94	AV	L	Pass
3	0.342	48.91	19.39	59.15	10.24	Peak	L	Pass
3**	0.342	34.90	19.39	49.15	14.25	AV	L	Pass
4	0.478	46.34	19.84	56.37	10.03	Peak	L	Pass
4**	0.478	34.10	19.84	46.37	12.27	AV	L	Pass
5	0.758	45.55	19.41	56.00	10.45	Peak	L	Pass
5**	0.758	30.72	19.41	46.00	15.28	AV	L	Pass
6	13.708	43.13	20.83	60.00	16.87	Peak	L	Pass
6**	13.708	30.28	20.83	50.00	19.72	AV	L	Pass

2) AC Ports - N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.262	48.11	19.45	61.37	13.26	Peak	N	Pass
1**	0.262	37.11	19.45	51.37	14.26	AV	N	Pass
2	0.312	49.60	19.44	59.92	10.32	Peak	N	Pass
2**	0.312	35.56	19.44	49.92	14.36	AV	N	Pass
3	0.456	48.18	19.95	56.77	8.59	Peak	N	Pass
3**	0.456	34.02	19.95	46.77	12.75	AV	N	Pass
4	0.608	45.52	20.02	56.00	10.48	Peak	N	Pass
4**	0.608	32.13	20.02	46.00	13.87	AV	N	Pass
5	2.148	42.57	20.20	56.00	13.43	Peak	N	Pass
5**	2.148	27.43	20.20	46.00	18.57	AV	N	Pass
6	15.656	45.12	20.94	60.00	14.88	Peak	N	Pass
6**	15.656	29.87	20.94	50.00	20.13	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	SCHWARZB ECK	NSLK 8127	8127-687	2024.05.09	2025.05.08	☒
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-SZ2530460-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2530460-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2530460-AI.PDF”.

Statement

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