

TEST REPORT

Applicant: Telit Communications S.p.A
Address: Via Stazione di Prosecco, 5/B Sgonico, 34010 Italy
Equipment Type: ME310T1-W1
Model Name: ME310T1-W1
Brand Name: Telit Cinterion or 
FCC ID: RI7ME310T1W1
Test Standard: 47 CFR Part 15 Subpart B
ANSI C63.4-2014
Sample Arrival Date: Jan. 07, 2026
Test Date: Jan. 15, 2026 - Jan. 20, 2026
Date of Issue: Mar. 04, 2026

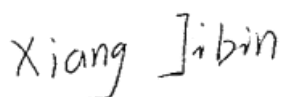
ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

Prepared by:

Reviewed by: Huang Chengkun

Approved by: Zhang Yanqing
(Laboratory Manager)







Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Mar. 04, 2026</u>	<u>Initial Issue</u>

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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	Telit Communications S.p.A
Address	Via Stazione di Prosecco, 5/B Sgonico,34010 Italy

2.2 Manufacturer Information

Manufacturer	Telit Communications S.p.A
Address	Via Stazione di Prosecco, 5/B Sgonico,34010 Italy

2.3 General Description for Equipment under Test (EUT)

Equipment Type	ME310T1-W1
Model Name Under Test	ME310T1-W1
Series Model Name	N/A
Description of Model Name Differentiation	N/A
Hardware Version	0.0
Software Version	M1A.000001
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Ancillary Equipment

Note: Not applicable.

2.5 Technical Information

Network and wireless connectivity	4G Network Cat-M Band2/4/5/12/13/14/18/19/25/26/66/71/85 NB-IoT Band2/4/5/12/13/14/18/19/25/26/66/71/85
Classification of equipment	Class B
Highest frequency generated or used in the device or on which the device operates or tunes(MHz)	1915 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 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)-AMN	2.6 dB
Radiated emissions (30 MHz-1 GHz)-966#1	4.2 dB
Radiated emissions (1 GHz-18 GHz) -966#1	5.3 dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Enclosure List

Description	Manufacturer	Model	Serial No.	Length	Description	Use
Laptop	DELL	N/A	N/A	N/A	N/A	☒
USB Cable	N/A	N/A	N/A	N/A	N/A	☒
Antenna	N/A	N/A	N/A	N/A	N/A	☒
Adapter	N/A	N/A	N/A	N/A	N/A	☒

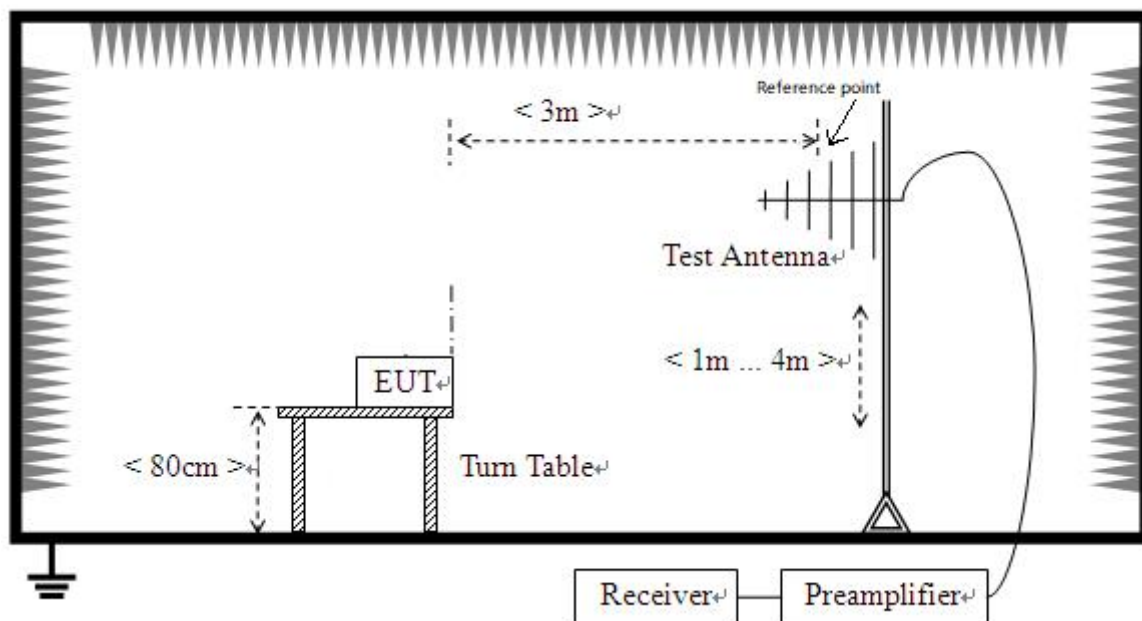
4.2 Test Configurations

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

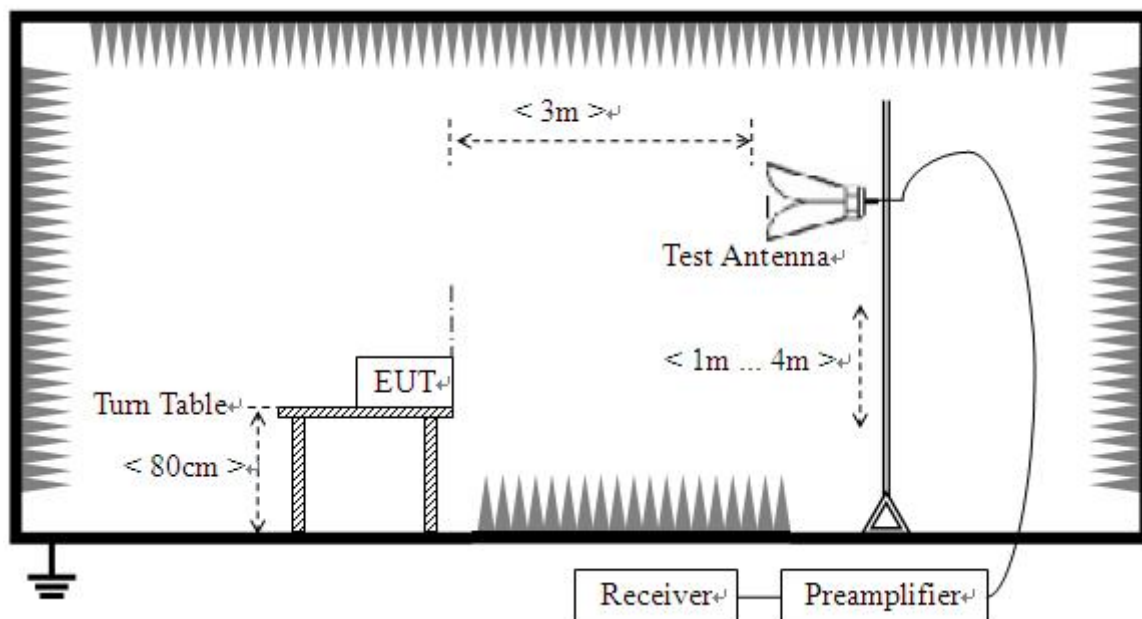
Test Mode Configuration	Description
Mode 1	<u>The Full System Test Mode</u> EUT + USB Cable + Laptop + Adapter + Antenna

4.3 Test Setups

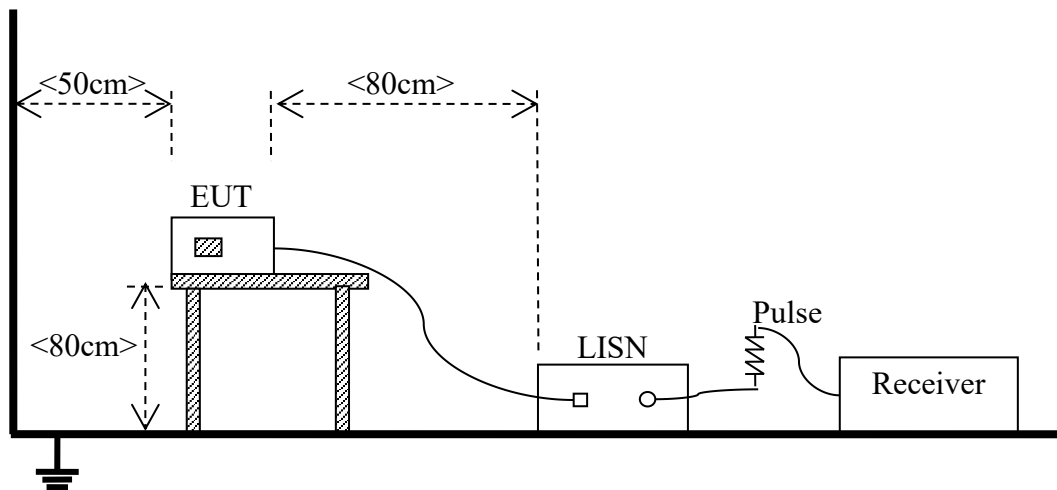
Test Setup 1



Radiated Emission (30 MHz-1 GHz)



Radiated Emission (above 1 GHz)

Test Setup 2

Conducted emission, 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) The limits using ANSI C63.4-2014.
- 4) For 30-1000 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

Please refer to 4.2 section description of test setup of test setup 1. The photo of test setup please refer to ANNEX B.

5.1.1.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. 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.
3. 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.
4. 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.
5. 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/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. Margin = Limit – Results

5.1.2 Conducted emission

5.1.2.1 Limit

Frequency range (MHz)	Class A		Class B	
	Quasi-peak (dB μ V)	Average (dB μ V)	Quasi-peak (dB μ V)	Average (dB μ V)
0.15 - 0.50	79	66	66 to 56	56 to 46
0.50 - 5	73	60	56	46
5 - 30	73	60	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.
- 3) The limit using ANSI C63.4.

5.1.2.2 Test setup

Please refer to 4.2 section description of test setup of test setup 2. The photo of test setup please refer to ANNEX B.

5.1.2.3 Test procedure

1. The test employing the methods of measurement described in the publication referenced in Section 3(b) (ANSI C63.4);
2. 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.
3. 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 AND TEST EQUIPMENT LIST

A.1 Radiated emission

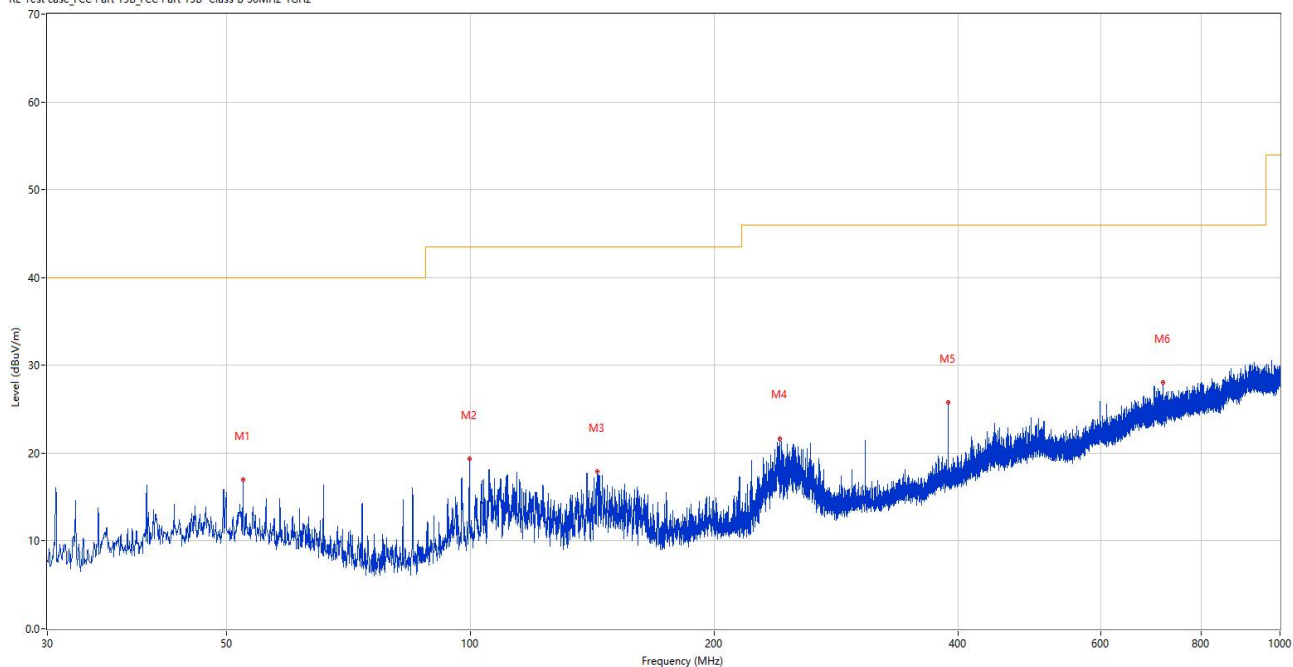
Note 1: Measurements shall be made with a quasi-peak measuring receiver in the frequency range 30 MHz to 1000 MHz. To reduce the testing time, a peak measuring receiver may be used instead of a quasi-peak measuring receiver. In case of dispute, measurement with a quasi-peak measuring receiver will take precedence.

Sample No.	SC-SH25C0118-S11	Temperature	21.8°C
Humidity	54%RH	Test Voltage	DC 5V From PC
Test Engineer	She Xihao	Test Date	2026.01.15

Test Mode 1

A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz

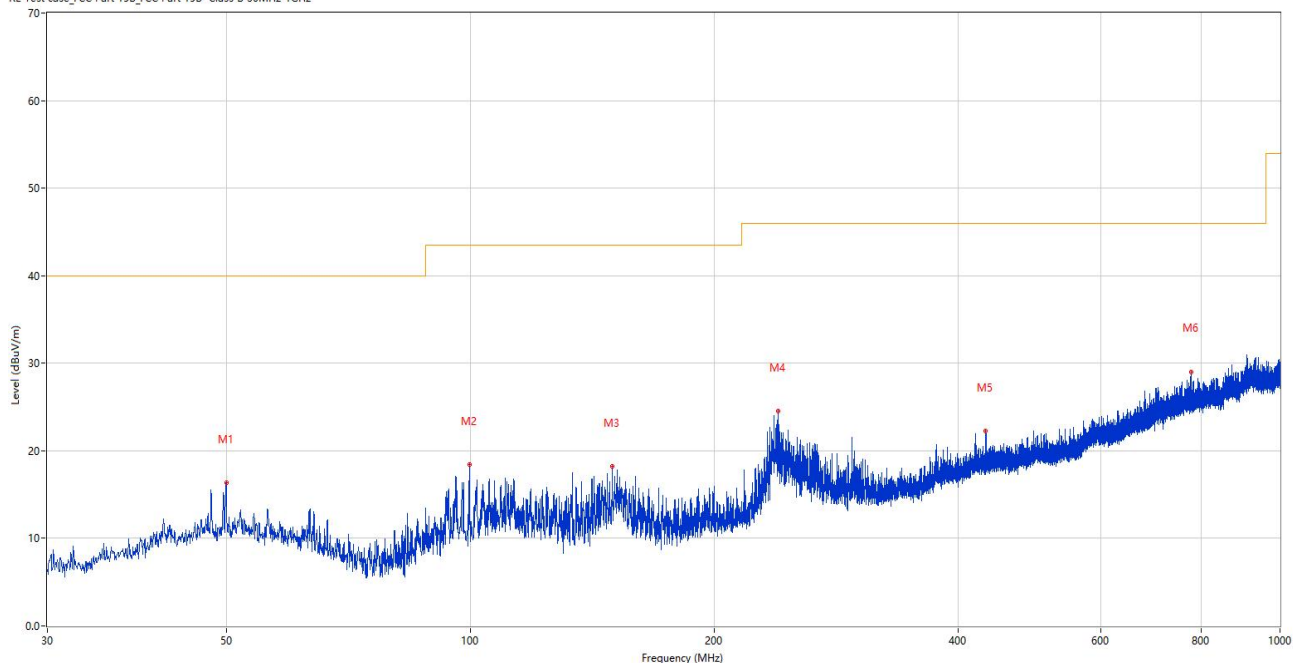
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.358	17.01	-25.76	40.0	22.99	Peak	237.00	100	Vertical	Pass
2	99.646	19.32	-26.87	43.5	24.18	Peak	3.00	100	Vertical	Pass
3	143.442	17.90	-30.27	43.5	25.60	Peak	208.00	100	Vertical	Pass
4	241.120	21.67	-25.28	46.0	24.33	Peak	185.00	200	Vertical	Pass
5	389.094	25.75	-21.31	46.0	20.25	Peak	344.00	200	Vertical	Pass
6	716.808	28.04	-14.32	46.0	17.96	Peak	165.00	100	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	49.885	16.36	-25.70	40.0	23.64	Peak	211.00	200	Horizontal	Pass
2	99.695	18.44	-26.87	43.5	25.06	Peak	134.00	200	Horizontal	Pass
3	149.601	18.22	-30.19	43.5	25.28	Peak	295.00	100	Horizontal	Pass
4	239.617	24.54	-25.36	46.0	21.46	Peak	250.00	100	Horizontal	Pass
5	433.181	22.24	-20.04	46.0	23.76	Peak	285.00	200	Horizontal	Pass
6	776.415	28.95	-12.18	46.0	17.05	Peak	250.00	100	Horizontal	Pass

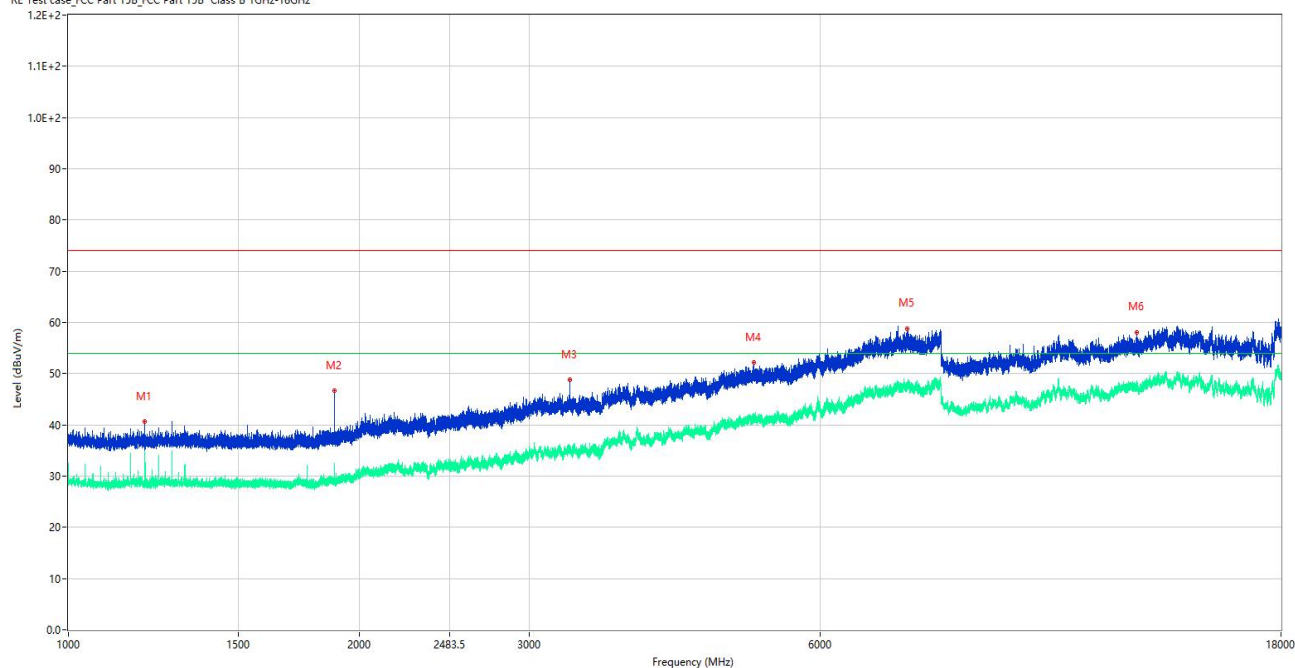
Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	☒
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	BH-EMC-L132	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

Sample No.	SC-SH25C0118-S11	Temperature	21.8°C
Humidity	54%RH	Test Voltage	DC 5V From PC
Test Engineer	She Xihao	Test Date	2026.01.15

Test Mode 1

A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz

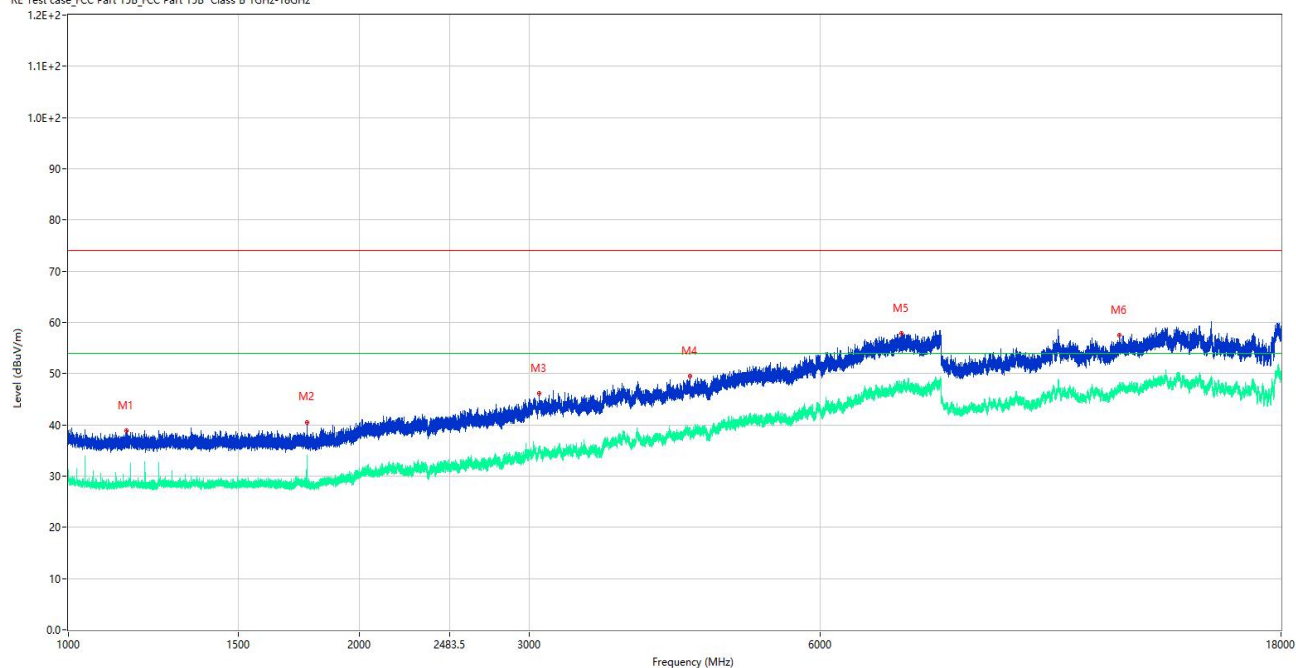
RE Test case FCC Part 15B FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1199.900	40.66	-16.02	74.0	33.34	Peak	184.00	100	Vertical	Pass
1**	1199.900	34.19	-16.02	54.0	19.81	AV	184.00	100	Vertical	Pass
2	1884.400	46.67	-15.78	74.0	27.33	Peak	204.00	100	Vertical	Pass
2**	1884.400	29.43	-15.78	54.0	24.57	AV	204.00	100	Vertical	Pass
3	3305.000	48.87	-6.41	74.0	25.13	Peak	165.00	100	Vertical	Pass
3**	3305.000	34.74	-6.41	54.0	19.26	AV	165.00	100	Vertical	Pass
4	5125.500	52.12	-0.44	74.0	21.88	Peak	48.00	100	Vertical	Pass
4**	5125.500	40.70	-0.44	54.0	13.30	AV	48.00	100	Vertical	Pass
5	7383.750	58.69	5.91	74.0	15.31	Peak	309.00	100	Vertical	Pass
5**	7383.750	46.91	5.91	54.0	7.09	AV	309.00	100	Vertical	Pass
6	12754.000	58.03	5.91	74.0	15.97	Peak	141.00	100	Vertical	Pass
6**	12754.000	47.60	5.91	54.0	6.40	AV	141.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz

RE Test case_FCC Part 15B_FCC Part 15B Class B 1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1147.500	38.89	-15.91	74.0	35.11	Peak	101.00	100	Horizontal	Pass
1**	1147.500	28.81	-15.91	54.0	25.19	AV	101.00	100	Horizontal	Pass
2	1766.600	40.54	-16.23	74.0	33.46	Peak	84.00	100	Horizontal	Pass
2**	1766.600	31.77	-16.23	54.0	22.23	AV	84.00	100	Horizontal	Pass
3	3073.750	46.07	-6.90	74.0	27.93	Peak	274.00	100	Horizontal	Pass
3**	3073.750	35.68	-6.90	54.0	18.32	AV	274.00	100	Horizontal	Pass
4	4396.500	49.50	-2.49	74.0	24.50	Peak	77.00	100	Horizontal	Pass
4**	4396.500	38.51	-2.49	54.0	15.49	AV	77.00	100	Horizontal	Pass
5	7280.750	57.93	5.31	74.0	16.07	Peak	288.00	100	Horizontal	Pass
5**	7280.750	47.20	5.31	54.0	6.80	AV	288.00	100	Horizontal	Pass
6	12249.500	57.43	5.14	74.0	16.57	Peak	309.00	100	Horizontal	Pass
6**	12249.500	47.03	5.14	54.0	6.97	AV	309.00	100	Horizontal	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L127	2025.02.12	2026.02.11	☒
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	BH-EMC-L111	2024.03.11	2027.03.10	☒
Anechoic Chamber	YiHeng	9m*6m*6m	BH-EMC-L001	2024.04.18	2027.04.17	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V19.618	/		☒

A.2 Conducted emission

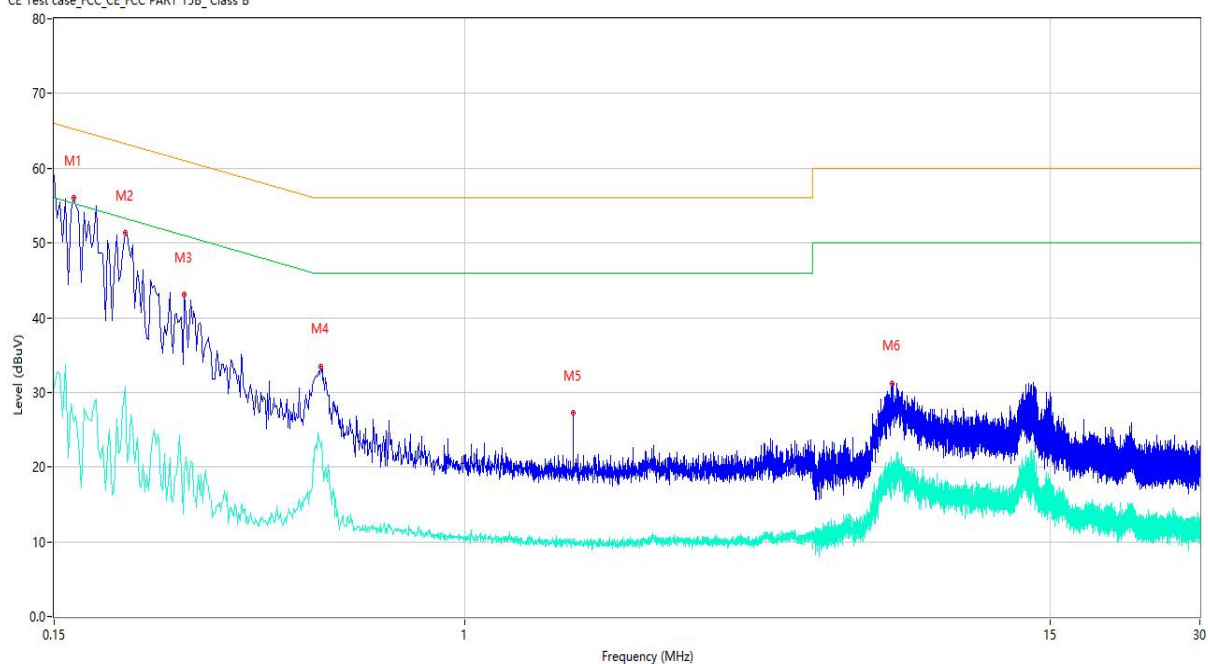
Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst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

Sample No.	SC-SH25C0118-S11	Temperature	22.3°C
Humidity	43%RH	Test Voltage	AC 120V/60Hz
Test Engineer	Xiang Jibin	Test Date	2026.01.20

Test Mode 1

A.2.1 AC ports - L Phase

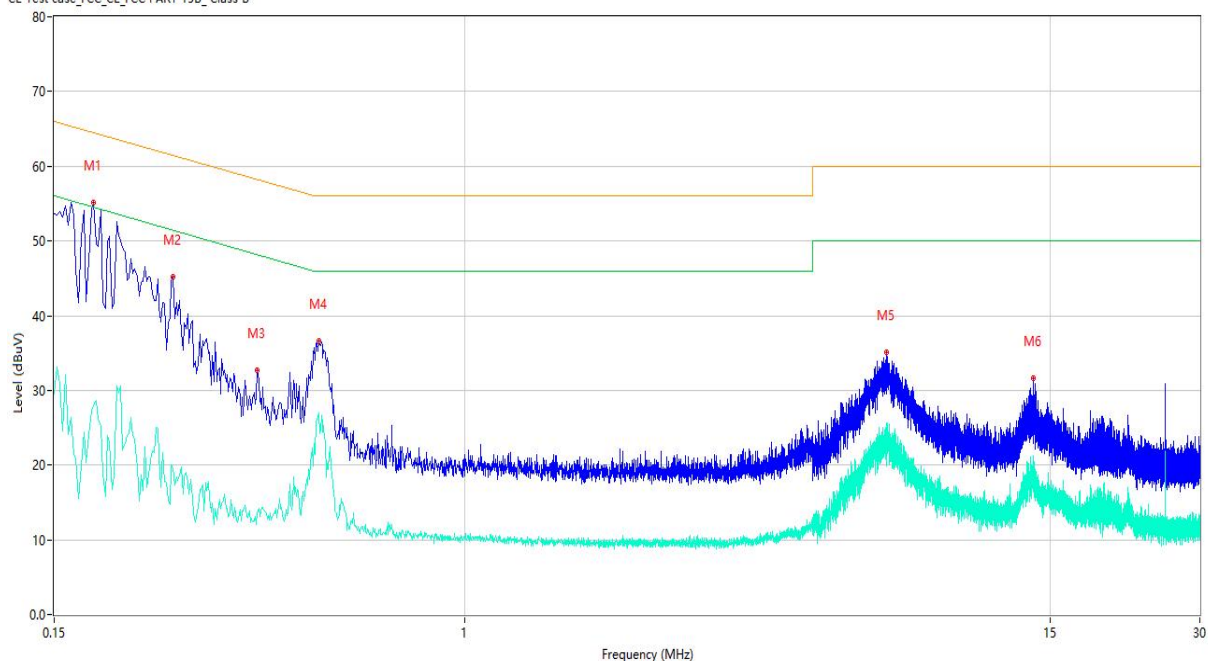
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	56.04	10.07	65.26	9.22	Peak	L	Pass
1**	0.164	26.08	10.07	55.26	29.18	AV	L	Pass
2	0.208	51.36	10.12	63.28	11.92	Peak	L	Pass
2**	0.208	30.70	10.12	53.28	22.58	AV	L	Pass
3	0.274	43.10	10.12	61.00	17.90	Peak	L	Pass
3**	0.274	18.77	10.12	51.00	32.23	AV	L	Pass
4	0.514	33.50	10.16	56.00	22.50	Peak	L	Pass
4**	0.514	22.78	10.16	46.00	23.22	AV	L	Pass
5	1.654	27.27	10.29	56.00	28.73	Peak	L	Pass
5**	1.654	10.01	10.29	46.00	35.99	AV	L	Pass
6	7.244	31.24	10.73	60.00	28.76	Peak	L	Pass
6**	7.244	20.05	10.73	50.00	29.95	AV	L	Pass

A.2.2 AC ports - N Phase

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	0.180	55.11	10.15	64.49	9.38	Peak	N	Pass
1**	0.180	28.05	10.15	54.49	26.44	AV	N	Pass
2	0.260	45.14	10.15	61.43	16.29	Peak	N	Pass
2**	0.260	19.60	10.15	51.43	31.83	AV	N	Pass
3	0.384	32.63	10.16	58.19	25.56	Peak	N	Pass
3**	0.384	13.67	10.16	48.19	34.52	AV	N	Pass
4	0.510	36.65	10.17	56.00	19.35	Peak	N	Pass
4**	0.510	27.03	10.17	46.00	18.97	AV	N	Pass
5	7.050	35.04	10.62	60.00	24.96	Peak	N	Pass
5**	7.050	24.80	10.62	50.00	25.20	AV	N	Pass
6	13.878	31.63	11.09	60.00	28.37	Peak	N	Pass
6**	13.878	21.24	11.09	50.00	28.76	AV	N	Pass

Equipment Information						
Equipment Name	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	TJEMC144	2025.02.11	2026.02.10	☒
LISN	SCHWARZBECK	NSLK 8127	BH-EMC-L011	2025.02.11	2026.02.10	☒
10dB Limiter	SCHWARZBECK	VTSD 9561-F	BH-EMC-L014	2025.02.11	2026.02.10	☒
Shielded Room	YiHeng	4.1m*4.0m*3.2m	BH-EMC-L006	2024.02.22	2027.02.21	☒
Description	Manufacturer	Name	Version	/		Use
Test Software	BALUN	BL410-E	V21.919	/		☒

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2610003-AE.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2610003-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2610003-AI.PDF”.

Statement

1. The Testing Center 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. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--