

FCC TEST REPORT

For

Shenzhen Neewer Technology Co., Ltd.

Universal Remote Control

Test Model: F-700B

Prepared for : Shenzhen Neewer Technology Co., Ltd.
Address : Room 3001, Yuecai Plaza (North) 3008 Taibai Road, Luohu District
Shenzhen, Guangdong, China

Prepared by : Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : November 19, 2025
Number of tested samples : 2
Sample No. : B251114006-1, B251114006-2
Serial number : Prototype
Date of Test : November 19, 2025 ~ January 06, 2026
Date of Report : January 07, 2026

FCC TEST REPORT
FCC CFR 47 PART 15 C(15.231)**Report Reference No. : LCSC10275011EA**

Date of Issue..... : January 07, 2026

Testing Laboratory Name..... : Guangzhou LCS Compliance Testing Laboratory Ltd.Address..... : No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou,
Guangdong, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name..... : Shenzhen Neewer Technology Co., Ltd.**Address..... : Room 3001, Yuecai Plaza (North) 3008 Taibai Road, Luohu District
Shenzhen, Guangdong, China**Test Specification**

Standard..... : FCC CFR 47 PART 15 Subpart C, ANSI C63.10-2020

Test Report Form No..... : TRF-4-E-176 A/0

TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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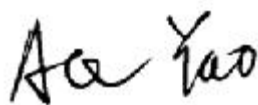
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Test Item Description..... : Universal Remote Control

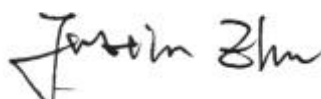
Trade Mark..... : NEEWER

Test Model..... : F-700B

Ratings..... : Please Refer to Page 6

Result : **PASS****Compiled by:**

Ace Yao/ Administrators

Supervised by:

Justin Zhu/ Technique Director

Approved by:

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCSC10275011EA	<u>January 07, 2026</u> Date of issue
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Test Mode.....	: F-700B
EUT.....	: Universal Remote Control
Applicant.....	: Shenzhen Neewer Technology Co., Ltd.
Address.....	: Room 3001, Yuecai Plaza (North) 3008 Taibai Road, Luohu District Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /
Manufacturer	: Shenzhen Neewer Technology Co., Ltd.
Address.....	: Room 3001, Yuecai Plaza (North) 3008 Taibai Road, Luohu District Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /
Factory	: Shenzhen Neewer Technology Co., Ltd.
Address.....	: Room 3001, Yuecai Plaza (North) 3008 Taibai Road, Luohu District Shenzhen, Guangdong, China
Telephone.....	: /
Fax.....	: /

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	January 07, 2026	Initial Issue	--

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Universal Remote Control
Test Model	: F-700B
Ratings	: DC 3.0V by button cell
Hardware version	: /
Software version	: /
433MHz Operation frequency	: 433.92MHz
Channel Number	: 1
Modulation Type	: ASK
Antenna Description	: PCB Antenna

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

1.2. Objective

The primary objective of the manufacturer is compliance with Subpart C of Part 15 of FCC Rules for the radiated and conducted emissions of intentional radiator. Certification of these devices is required as a prerequisite to marketing as defined in Part 2 the FCC Rules Certification is a procedure where the manufacturer or a contracted laboratory makes measurements and submits the test data and technical information to the FCC. The FCC issues a grant of equipment authorization upon successful completion of their review of the submitted documents. Once the equipment authorization has been obtained, the label indicating compliance must be attached to all identical units, which are subsequently manufactured. Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

1.3. Environmental Conditions

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

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

1.4. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
---	---	---	---	---

1.5. External I/O Port

I/O Port Description	Quantity	Cable
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1.6. EUT Operation

The EUT was placed in a RF test mode for testing of the transmitter and in normal mode of operation for testing the digital circuitry and receiver.

1.7. Antenna System

The directional gains of antenna used for transmitting is 1.2dBi, and EUT uses an PCB Antenna which is permanently attached.

1.8. Description of Test Facility

Site Description

EMC Lab. : CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.9. Statement of The Measurement Uncertainty

ISO Guide 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with NAMAS document NIS 81.

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GH	±4.20dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Occupied Channel Bandwidth	:	0.01MHz~26.5GHz	5%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Guangzhou LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the normal operating mode. The TX frequency that was fixed which was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.209 and 15.231 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

Not Applicable

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane and for below 1GHz and 1.5m for above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10

2.4. Instrument Calibration

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

2.5. Test Mode

The EUT has been tested under engineering mode. The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis). The worst case of X axis was reported.

A new battery supplied DC 3V power to the EUT for testing.

***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Guangzhou LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Rules	Description of test	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band	Compliant
§15.209	General Requirement	Compliant
§15.231 (b)	Radiated Emissions	Compliant
§15.231 (c)	20dB Bandwidth Testing	Compliant
§15.231 (a)(1)	Deactivation Testing	Compliant
§15.207	Conducted Emissions	N/A

Note: All test modes were taken into consideration, but we only recorded the worst case in this report.

5. TEST ITEMS AND RESULTS

5.1. Transmitter Deactivation Time

FCC 15.231 (a)

5.1.1. Limit

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

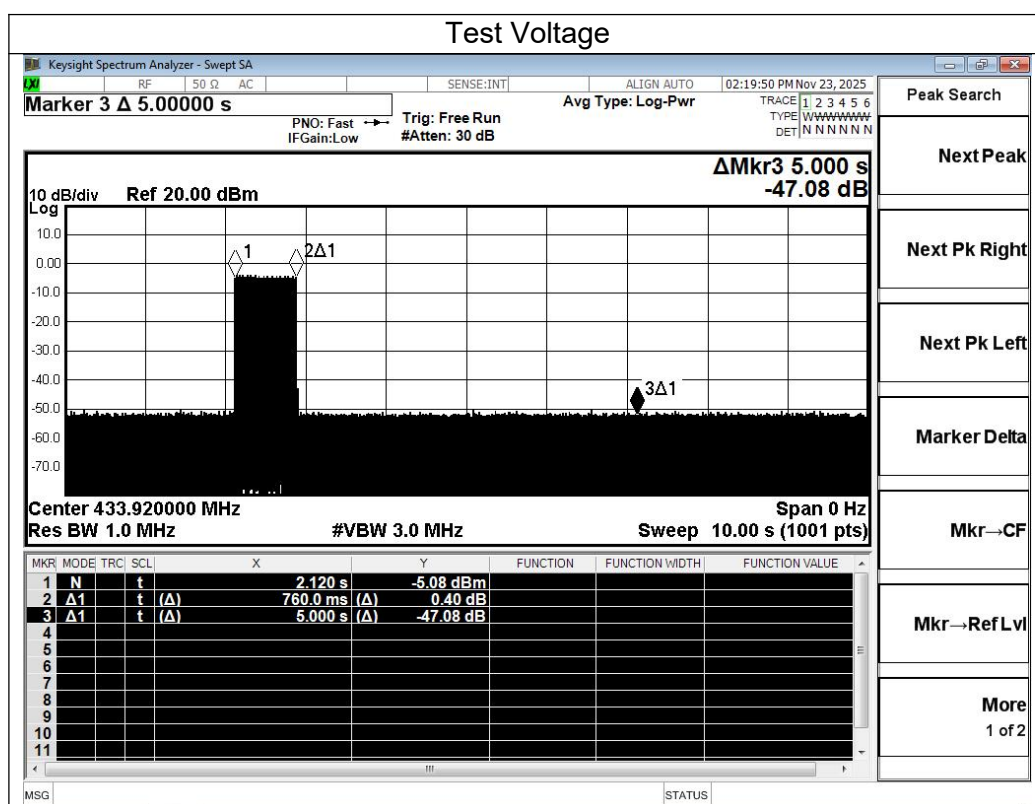
5.1.2. Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

5.1.3. Test Results

Temperature	23.5°C	Humidity	52.2%
Test Engineer	Suichao Lai	Configurations	TX Mode

Frequency (MHz)	Activation Time (s)	Limit: not more than 5 seconds of being released (s)	Conclusion
433.92	0.76	5	PASS



5.2. Transmitter Field Strength of Emissions

5.2.1. Limit

FCC §15.231 (b)

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

Fundamental frequency (MHz)	Field Strength of Fundamental (microvolt/meter)	Field Strength of spurious emissions (microvolt/meter)
40.66-40.70	2,250	225
70-130	1,250	125
130-174	1,250 to 3,370	125 to 375
174-260	3,750	375
260-470	3,750 to 12,500	375 to 1,250
Above 470	12,500	1,250

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	608-614	4.5-5.15
0.495-0.505	16.69475-16.68525	960-1240	5.35-5.46
2.1735-2.1905	16.80425-16.80475	1300-1427	7.25-7.75
4.125-4.128	25.525-67	1435-1626.5	8.025-8.5
4.17725-4.17775	37.5-38.25	1645.5-1646.5	9.0-9.2
4.20725-4.20775	73-74.6	1660-1710	9.3-9.5
6.215-6.218	74.8-75.2	1718.8-1722.2	10.6-12.7
6.26775-6.26825	108-121.94	2200-2300	13.25-13.4
6.31175-6.31225	123-138	2310-2390	14.47-14.5
8.291-8.294	149.9-150.05	2483.5-2500	15.35-16.2
8.362-8.366	156.52475-156.52525	2655-2900	17.7-21.4
8.37625-8.38675	156.7-156.9	3260-3267	22.01-23.12
8.41425-8.41475	162.0125167.17	3332-3339	23.6-24.0
12.29-12.293	167.72-173.2	3345.8-3358	31.2-31.8
12.51975-12.52025	240-285	3600-4400	36.43-36.5
12.57675-12.57725	322-335.4		.(²)
13.36-13.41	399.9-410		

1. Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2. Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§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 (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F (KHz)	300
0.490-1.705	24000 (KHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 72 MHz, 76 88 MHz, 174 216 MHz or 470 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

5.2.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.2.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 1.5 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 12.75 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

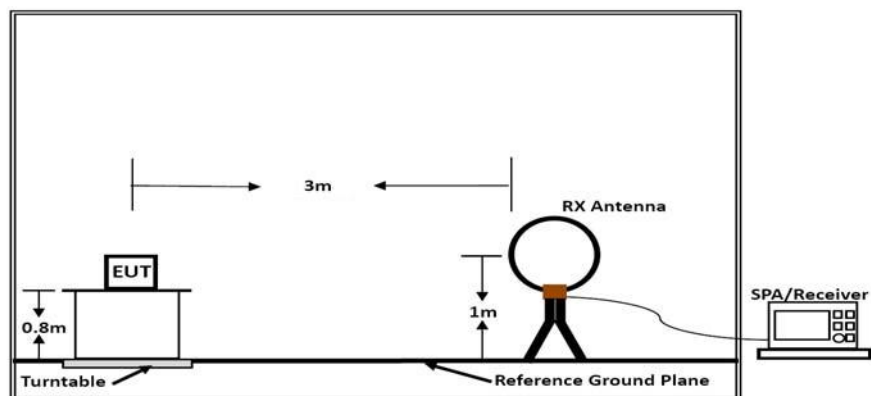
Premeasurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height is 1.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

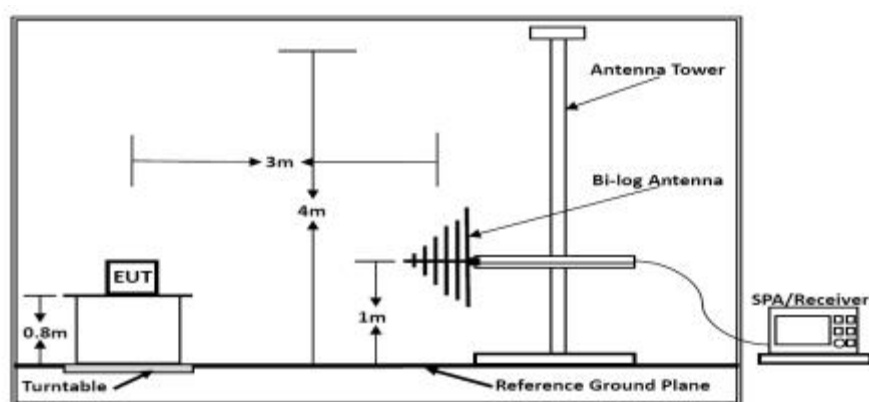
Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0° to 360°). This measurement is repeated for different EUT-table positions (0° to 150° in 30°-steps). This procedure is repeated for both antenna polarisations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

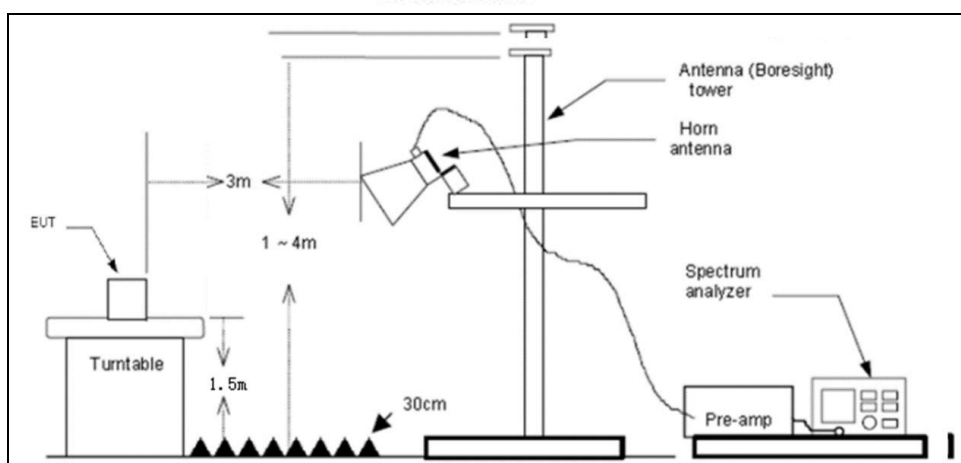
5.2.4 Block Diagram of Test Setup



Below 30MHz



Below 1GHz



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\text{FS (dBuV/m)} = \text{RA (dBuV)} + \text{AF (dB/m)} + \text{CL (dB)} - \text{AG (dB)}$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

5.2.7. Results of Radiated Emissions (9 kHz~30MHz)

Temperature	22.5℃	Humidity	48.9%
Test Engineer	Suichao Lai	Configurations	TX Mode

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

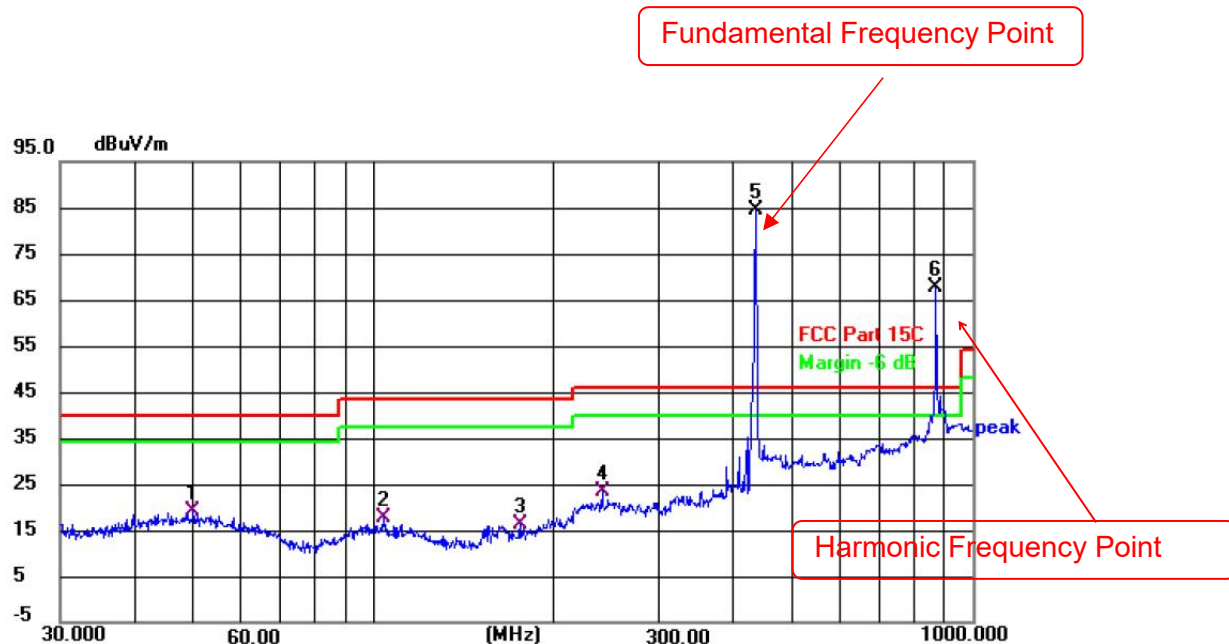
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

5.2.8. Results of Radiated Emissions (30MHz~1GHz)

Temperature	22.5℃	Humidity	48.9%
Test Engineer	Suichao Lai	Configurations	TX Mode

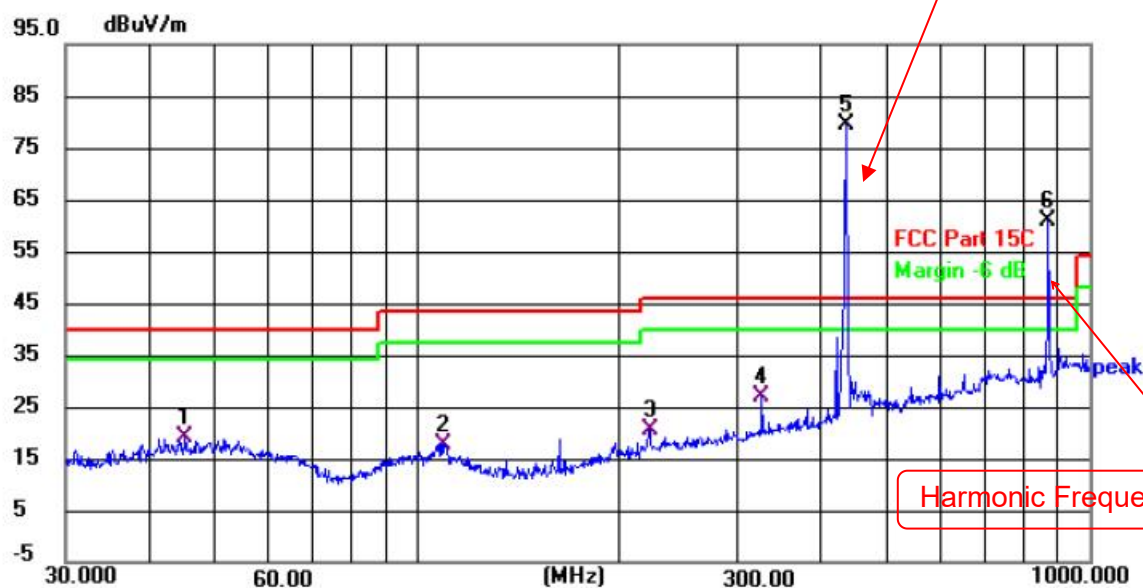
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		50.0566	4.39	14.72	19.11	40.00	-20.89	QP
2		103.8054	4.28	13.28	17.56	43.50	-25.94	QP
3		175.6516	5.12	11.06	16.18	43.50	-27.32	QP
4		240.8303	8.78	14.53	23.31	46.00	-22.69	QP
5	*	434.0650	65.11	19.26	84.37	46.00	38.37	peak
6	X	869.1300	41.56	26.24	67.80	46.00	21.80	peak

Frequency (MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.6)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Limit(dBμV/m) (Peak)	Conclusion
434.0650	84.37	-9.02	75.35	80.83	100.83	PASS
869.1302	67.80	-9.02	58.78	60.83	80.83	PASS

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		45.2166	4.25	14.76	19.01	40.00	-20.99	QP
2		109.7960	4.73	13.06	17.79	43.50	-25.71	QP
3		222.1697	7.04	13.63	20.67	46.00	-25.33	QP
4		325.5958	10.27	16.81	27.08	46.00	-18.92	QP
5	*	434.0650	60.14	19.26	79.40	46.00	33.40	peak
6	X	869.1302	34.49	26.24	60.73	46.00	14.73	peak

Frequency (MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.6)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Limit(dBμV/m) (Peak)	Conclusion
434.0650	79.40	-9.02	70.38	80.83	100.83	PASS
869.1302	60.73	-9.02	51.71	60.83	80.83	PASS

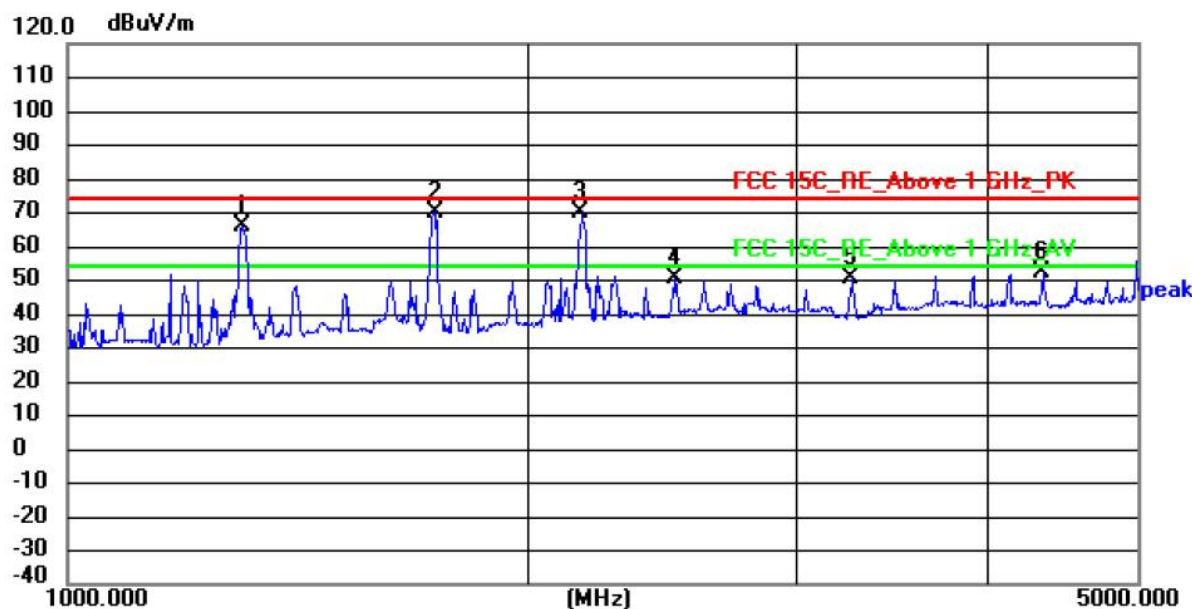
Note:

1. All reading are Quasi-peak values.
2. Measured = Reading + Antenna Factor + Cable Loss
3. The emission that are 20dB below the official limit are not reported
4. * - means fundamental frequency
5. ** - means harmonic frequency

5.2.9. Results of Radiated Emissions (Above 1GHz)

Temperature	22.6℃	Humidity	52.3%
Test Engineer	Suichao Lai	Configurations	TX Mode

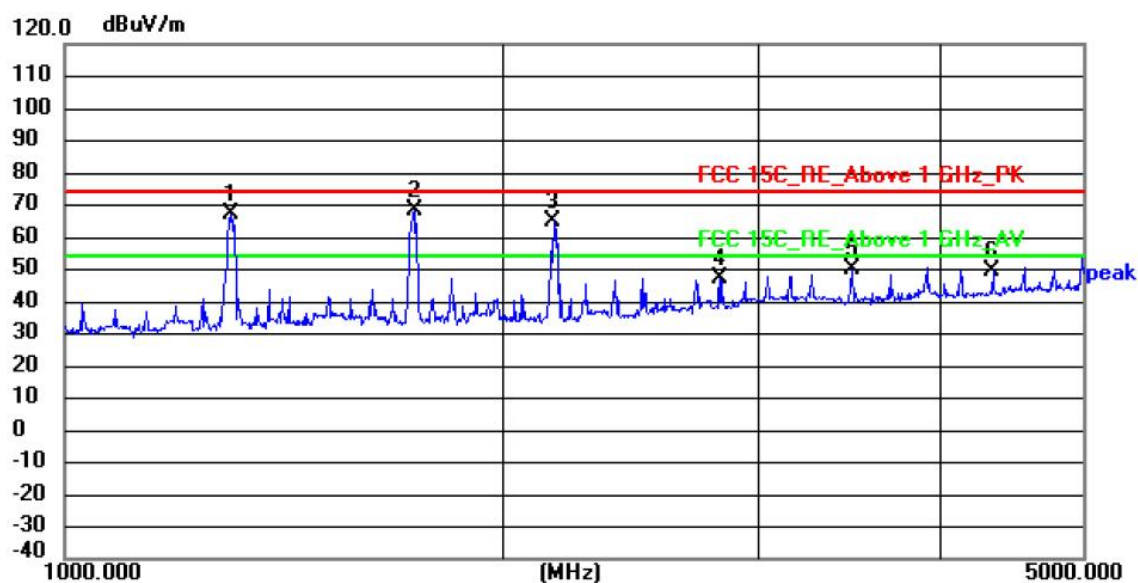
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB Detector
1		1302.060	79.73	-13.79	65.94	74.00	-8.06 peak
2		1736.788	81.74	-11.92	69.82	74.00	-4.18 peak
3	*	2168.725	79.47	-9.59	69.88	74.00	-4.12 peak
4		2494.681	58.28	-7.99	50.29	74.00	-23.71 peak
5		3253.456	52.43	-2.00	50.43	74.00	-23.57 peak
6		4339.709	48.87	3.30	52.17	74.00	-21.83 peak

Frequency (MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.6)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Limit(dBμV/m) (Peak)	Conclusion
1302.060	65.94	-9.02	56.92	60.83	80.83	PASS
1736.788	69.82	-9.02	60.8	60.83	80.83	PASS
2168.725	68.88	-9.02	59.86	60.83	80.83	PASS

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		1302.060	80.73	-13.69	67.04	74.00	-6.96	peak
2	*	1736.788	79.94	-11.79	68.15	74.00	-5.85	peak
3		2168.725	74.18	-9.42	64.76	74.00	-9.24	peak
4		2819.270	51.61	-4.40	47.21	74.00	-26.79	peak
5		3475.384	51.35	-1.33	50.02	74.00	-23.98	peak
6		4339.709	46.13	3.43	49.56	74.00	-24.44	peak

Frequency (MHz)	Peak Level (dBμV/m)	AV Factor(dBμV/m) (see Section 5.6)	Average Level (dBμV/m)	Limit(dBμV/m) (average)	Limit(dBμV/m) (Peak)	Conclusion
1302.060	67.04	-9.02	58.02	60.83	80.83	PASS
1736.788	68.15	-9.02	59.13	60.83	80.83	PASS
2168.725	64.76	-9.02	55.74	60.83	80.83	PASS

1. Measuring frequencies from 9k~10th harmonic (ex. 5GHz), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 5GHz) were made with an instrument using Peak detector mode.
3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Due to the measure PK emission level less than the AV limit value, the average doesn't need to be tested

5.3. 20dB Bandwidth Emissions

FCC 15.231 (c)

5.3.1. Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

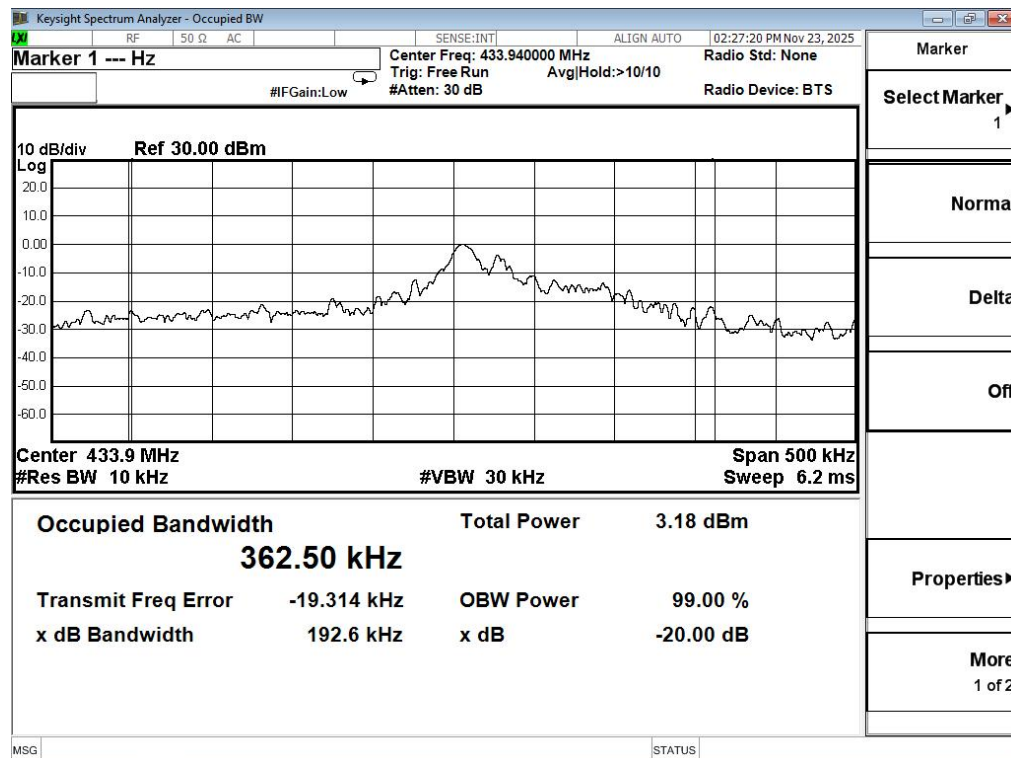
5.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

5.3.3. Test Data

Temperature	23.5°C	Humidity	52.2%
Test Engineer	Suichao Lai	Configurations	TX Mode

Center Frequency of operation MHz	Maximum allowed bandwidth kHz	Measured 20dB bandwidth kHz	Result
433.92	1084.9	192.6	PASS
Maximum allowed bandwidth:	☒ 0.25% of the centre operating frequency ☐ 0.5% of the centre operating frequency		
RBW:	☐ 10kHz ☐ 100kHz ☒ other 200Hz		
VBW:	☐ 30kHz ☐ 300kHz ☒ other 620Hz		



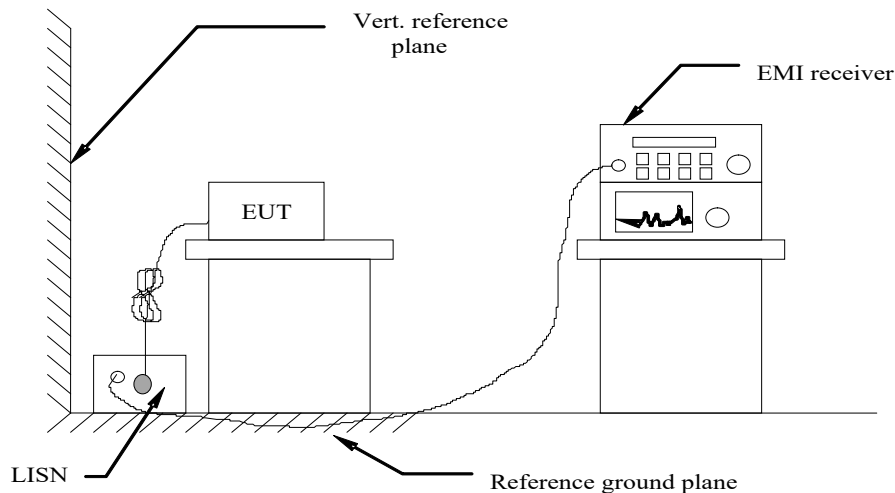
5.4. Power line conducted emissions

5.4.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which 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 or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

5.4.2 Block Diagram of Test Setup



5.4.3 Test Results

Not applicable.

The EUT is battery powered.

5.5. Antenna Requirement

FCC 15.203

5.5.1. Standard Applicable

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.

This EUT uses an integral antenna which is permanently attached.

5.5.2. Result

Compliant.

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

5.6. Duty cycle

5.6.1. Limit

No dedicated limit specified in the Rules.

5.6.2. Test Procedure

5.6.2.1. Place the EUT on the table and set it in transmitting mode.

5.6.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

5.6.2.3. Set centre frequency of spectrum analyzer=operating frequency.

5.6.2.4. Set the spectrum analyzer as RBW=1.0 MHz, VBW=3.0 MHz, Span=0Hz, Adjust Sweep=Auto.

5.6.2.5. Repeat above procedures until all frequency measured was complete.

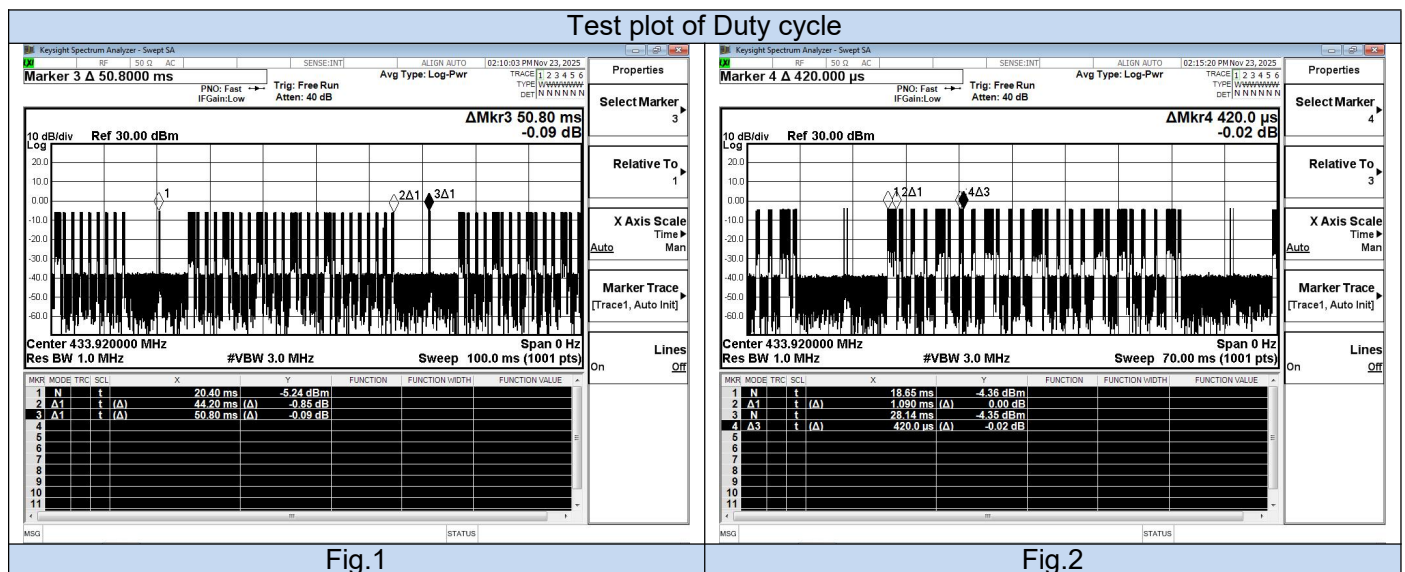
5.6.3. Test Data

$Ton = 1.091 \times 7 + 0.420 \times 19 (\text{ms}) = 15.61 (\text{ms})$

$Tp = 44.20 (\text{ms})$

The duty cycle = $15.61 / 44.20 = 35.32\%$

Average Correction Factory = $20 \log (Ton/Tp) = 20 \log (0.3532) = -9.04 \text{ dB}$



6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Equipment No.	Cal Date	Due Date
1	Power Meter	Keysight	E4417A	GLCS-E-279	2025-04-10	2026-04-09
2	Power Sensor	Keysight	E9304A	GLCS-E-280	2025-04-10	2026-04-09
3	Power Sensor	Keysight	E9304A	GLCS-E-281	2025-04-10	2026-04-09
4	Spread Ppectrum Unit	Tonscend	TS-WF7U2	GLCS-E-364	N/A	N/A
5	Test Software	Tonscend	JS1120-3	GLCS-E-366	N/A	N/A
6	RF Control Unit	Tonscend	JS0806-2	GLCS-E-365	2025-09-01	2026-08-31
7	MXA Signal Analyzer	Keysight	N9020A	GLCS-E-356	2025-08-18	2026-08-17
8	DC Power Supply	Keysight	E3642A	GLCS-E-357	2025-08-18	2026-08-17
9	Signal Analyzer	Keysight	N5172B	GLCS-E-353	2025-08-18	2026-08-17
10	Signal Analyzer	Keysight	N5181A	GLCS-E-354	2025-08-18	2026-08-17
11	WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	GLCS-E-355	2025-08-18	2026-08-17
12	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-012	N/A	N/A
13	Semi Anechoic Chamber#1	Maorui	966	GLCS-E-001	2024-04-21	2027-04-20
14	Positioning Controller	Max-Full	MF-7802	GLCS-E-015	N/A	N/A
15	Active Loop Antenna	TESEQ	HLA 6121	GLCS-E-155	2025-07-19	2026-07-18
16	By-log Antenna	SCHWARZBECK	VULB9163	GLCS-E-352	2025-08-16	2028-08-15
17	Low-frequency amplifier	Sonoma	310N	GLCS-E-036	2025-04-10	2026-04-09
18	Horn Antenna	SCHWARZBECK	BBHA 9120D	GLCS-E-060	2025-07-19	2026-07-18
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	GLCS-E-348	2025-08-18	2028-08-17
20	Broadband Preamplifier	Cesheng Technology	LNPA_30M06G-40(18GHz)	GLCS-E-286	2025-04-11	2026-04-10
21	Broadband Preamplifier	Cesheng Technology	LNPA 30M06G-40(40G Hz)	GLCS-E-287	2025-04-11	2026-04-10
22	EMI Test Receiver	R&S	ESR 7	GLCS-E-192	2025-04-10	2026-04-09
23	RS SPECTRUM ANALYZER	R&S	FSP40	GLCS-E-349	2025-08-16	2026-08-15
24	6dB Attenuator	/	100W/6dB	GLCS-E-350	2025-08-13	2026-08-12
25	3dB Attenuator	/	2N-3dB	GLCS-E-351	2025-08-13	2026-08-12
26	EMI Test Receiver	ROHDE & SCHWARZ	ESR7	GLCS-E-158	2025-04-10	2026-04-09
27	Artificial Mains Network	ROHDE & SCHWARZ	ESH2-Z5	GLCS-E-011	2025-04-10	2026-04-09
28	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-017	N/A	N/A
29	Antenna Mast	Maorui	BK-4AT-BS	GLCS-E-249	N/A	N/A
30	Pulse Limiter	SCHWARZBECK	VTSD 9561-F	GLCS-E-080	2025-04-10	2026-04-09

7. TEST SETUP PHOTOGRAPHS

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----