



**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
FCC PART 15 SUBPART C REQUIREMENT
CANADIAN RSS 210 REQUIREMENT**

OF

Remote Control

Model No.: SL-R006

Trademark: N/A

FCC ID: 2AKKN-R006

IC: 22222-R006

Report No.: E04A23110614F00101

Issue Date: December 28, 2023

Prepared for

Haining Zhongyuan Plastic Co., Ltd.

**No.7 Wanlong Road, Economic development Zone, Haining City, Jiaxing
City, Zhejiang Province**

Prepared by

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Dong Guan Anci Electronic Technology Co., Ltd.**

VERIFICATION OF COMPLIANCE

Applicant:	Haining Zhongyuan Plastic Co., Ltd. No.7 Wanlong Road, Economic development Zone, Haining City, Jiaxing City, Zhejiang Province
Manufacturer:	Haining Zhongyuan Plastic Co., Ltd. No.7 Wanlong Road, Economic development Zone, Haining City, Jiaxing City, Zhejiang Province
Product Description:	Remote Control
Trade Mark:	N/A
Model Number:	SL-R006
Sample number:	A23110614 001

We hereby certify that:

The above equipment was tested by Guangdong Global Testing Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 & RSS-Gen Issue 5(April, 2018) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.249(2022) and Canadian RSS 210 Issue 10, December 2019.

Date of Test : Dec. 06, 2023 to Dec. 20, 2023

Prepared by :

Joson
Joson Editor



Reviewer & Approved :

Shawn Wen
Shawn Wen / Supervisor

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23110614F00101

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1 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Device Type:	Remote Control
Modulation:	ASK
Operating Frequency Range(s):	433.92MHz
Number of Channels:	1 channel
Antenna Type :	Internal Antenna
Antenna Gain:	-0.2 dBi
Power supply:	Battery 3V
Date of Sample Received:	Nov. 25, 2023

Note: for more details, please refer to the User's manual of the EUT.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2013 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

For Radiated: The EUT's antenna was pre-tested under the following modes:

Test Mode	Description
Mode A	X-Y axis
Mode B	Y-Z axis
Mode C	X-Z axis

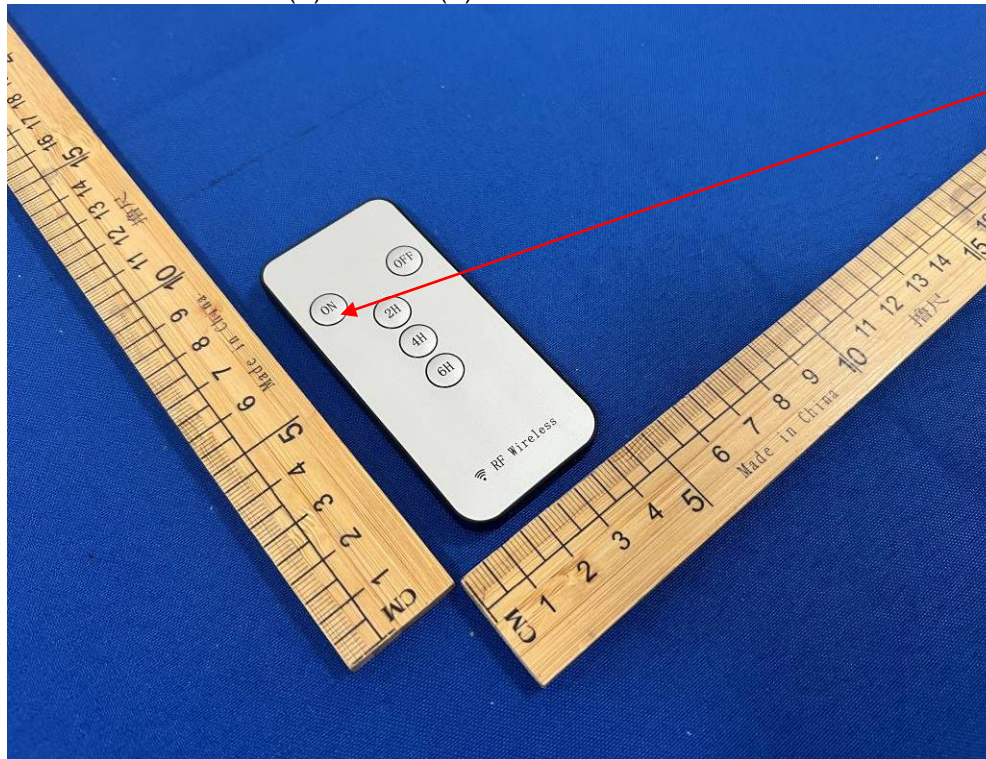
From the above modes, the worst case was found in Mode A.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

2 SUMMARY OF TEST RESULT

Test Clause	Test Parameter	Verdict	Remark
15.231(c) RSS 210 Issue 10 Annex A.1.3	Occupied Bandwidth	PASS	
RSS-GEN issue 5 6.7	99% emission bandwidth	PASS	
15.231(b) RSS 210 Issue 10 Annex A.1.2	Radiated Spurious Emissions	PASS	
15.231(b) RSS 210 Issue 10 Annex A.1.1	Transmission Requirement	PASS	
15.203 RSS-Gen Issue 5 6.8	Antenna Requirement	PASS	
15.207(a) RSS-Gen Issue 5 8.8	Conducted Emission	N/A	See NOTE
NOTE: 1: N/A (Not Applicable) ,EUT powered by battery. 2: All buttons of EUT were investigated. The test results shown in the following sections represent the worst case emissions			

RELATED SUBMITTAL(S) / GRANT(S):



Tested
button

This submittal(s) (test report) is intended for FCC ID: 2AKKN-R006 filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

RSS-Gen Issue 5, April 2018.

RSS 210 Issue 10, December 2019.

3.2 MEASUREMENT EQUIPMENT USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2023/09/18	2024/09/17
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2023/09/18	2024/09/17
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2023/09/18	2024/09/17
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2023/09/18	2024/09/17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2023/09/18	2024/09/17
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2023/09/18	2024/09/17
temperature humidity chamber	Espec	SH-241	SH-241-2014	2023/09/18	2024/09/17
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2023/09/18	2024/09/17
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243646	2022/03/23	2025/03/22
Loop Antenna	ETS	6502	243668	2022/03/30	2025/03/29
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023/09/18	2024/09/17
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2023/09/18	2024/09/17
Pre-Amplifier	A-INFO	HPA-1G1850	HYP A21003	2023/09/18	2024/09/17
Horn antenna	A-INFO	3117	246069	2022/03/11	2025/03/10
Pre-Amplifier	ZKJC	HPA-184057	HYP A21004	2023/09/18	2024/09/17
Horn antenna	ZKJC	3116C	246265	2022/03/29	2025/03/28
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Remark: Each piece of equipment is scheduled for calibration once a year.

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

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

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

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Accreditation Certificate	<p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p>ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p>
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5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

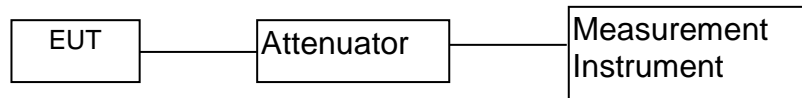
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

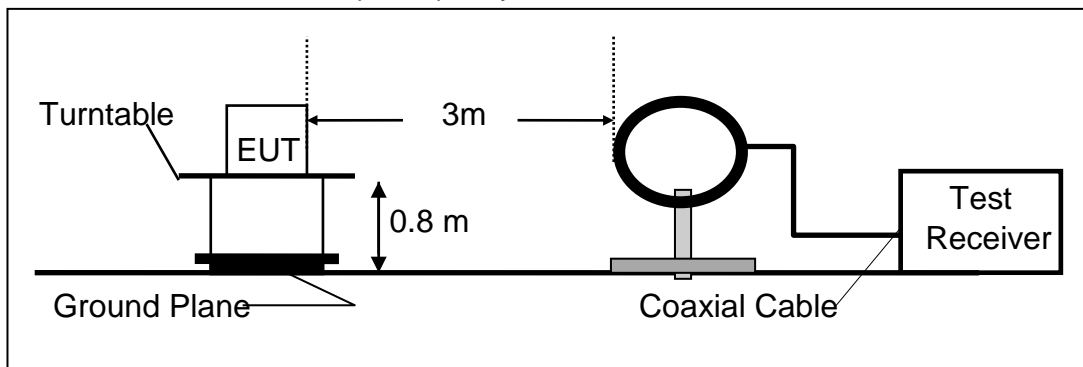
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

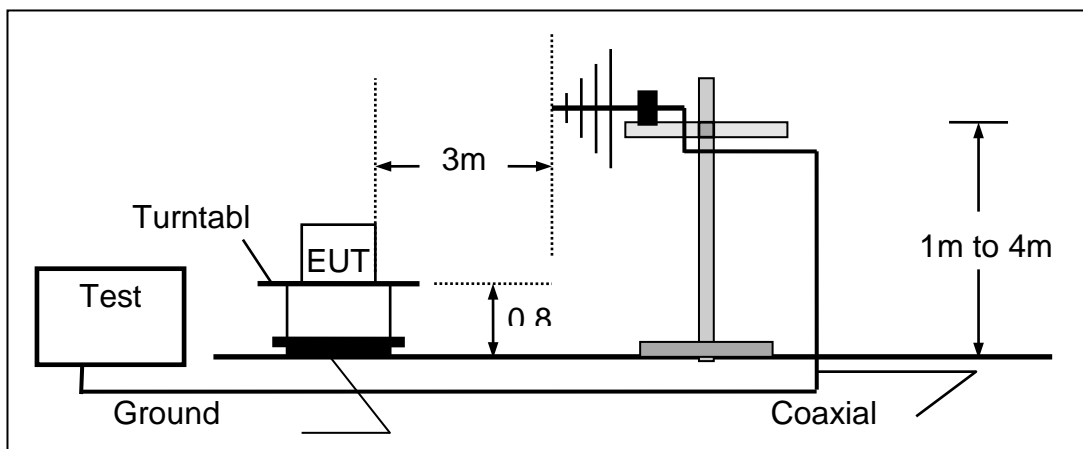
Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

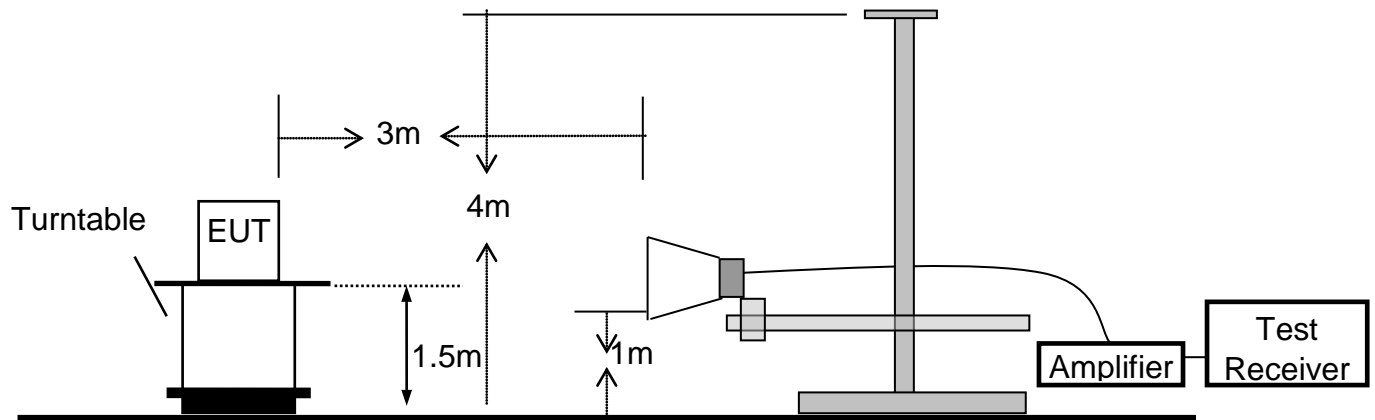
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz

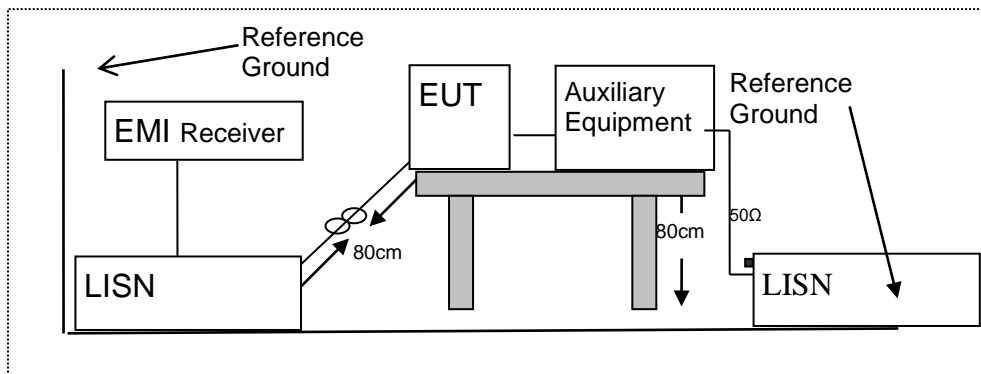


6.3 CONDUCTED EMISSION TEST SETUP

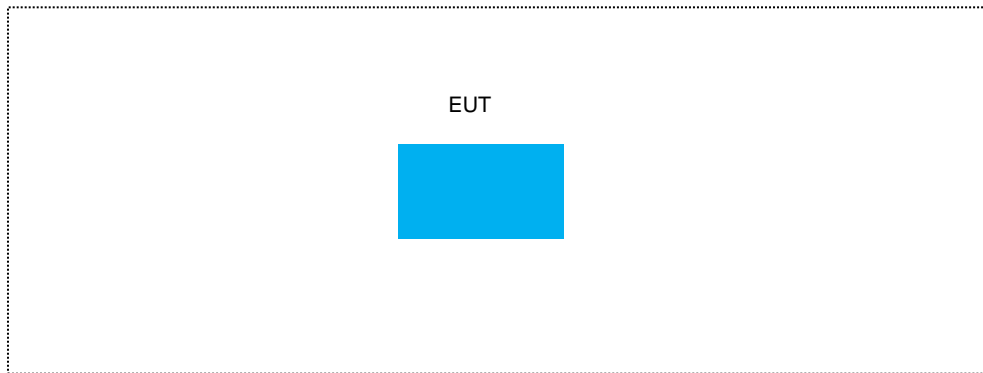
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	N/A	N/A	N/A	N/A	

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH & 99% Bandwidth

7.1.1 Applicable Standard

According to FCC Part 2.1049 and part 15.231(c)

According to RSS 210 Issue 10 Annex A.1.3

7.1.2 Conformance 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. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

FCC Part 2.1049 and part 15.231(c): Set RBW = 1% occupied bandwidth (30KHz).

RSS 210 Issue 10 Annex A.1.3: Set RBW = 1%-5% occupied bandwidth (30KHz)

Set the video bandwidth (VBW) =100KHz.

Set Span= approximately 3 to 5 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

Test Results

Temperature :	21 °C	Test Date :	Nov. 30, 2023
Humidity :	50 %	Test By:	Big

Modulation Mode	Channel Number	Channel Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Verdict
ASK	0	433.92	368.2	≤1084.75KHz	PASS
Note: N/A (Not Applicable) BW=0.25% of the center frequency					

Modulation Mode	Channel Number	Channel Frequency (MHz)	99% Bandwidth (kHz)
ASK	0	433.92	433.05

Test Model

Occupied Bandwidth & 99% Bandwidth

Channel 0: 433.92MHz

ASK Modulation



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.231(b) and 15.209

According to According to RSS 210 Issue 10 Annex A.1.2

7.2.2 Conformance Limit

Intentional radiators may operate at a periodic rate exceeding that specified in paragraph (a) of this section and may be employed for any type of operation, including operation prohibited in paragraph (a) of this section, provided the intentional radiator complies with the provisions of paragraphs (b) through (d) of this section, except the field strength table in paragraph (b) of this section is replaced by the following:

FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

FCC 15.209 Limited

Frequencies (MHz)	Field Strength (micorvolts/meter)	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
960~1000□	500	3
Above 1GHz	74 dBuV/m (PEAK) 54 dBuV/m (AVERAGE)	

15.231 Limited

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2,250	225
70 - 130	1,250	125
130 - 174	1,250 to 3,750 **	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

** linear interpolations

The field intensity in micro-volts per meter can then be determined by the following equation: $FI(V/m) = 10FI(dBV/m) / 20$ The FCC specified emission limits were calculated according the EUT operating frequency and obtained by following linear interpolation equations:

(a) For fundamental frequency:

$$f_{EUT} : \text{EUT Operating Frequency Emission Limit (V/m)}$$

$$= [f_{EUT}(\text{MHz}) - 260(\text{MHz})] \times \frac{12500(\text{V/m}) - 3750(\text{V/m})}{470(\text{MHz}) - 260(\text{MHz})} + 3750(\text{V/m})$$

(b) For spurious frequencies:

$$f_{EUT} : \text{EUT Operating Frequency Emission Limit (V/m)}$$

$$= [f_{EUT}(\text{MHz}) - 260(\text{MHz})] \times \frac{1250(\text{V/m}) - 375(\text{V/m})}{470(\text{MHz}) - 260(\text{MHz})} + 375(\text{V/m})$$

Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 1 5.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

FCC Part15 (15.231) , Subpart; RSS 210 Issue 10		
Fundamental Frequency	Field Strength Of Fundamental	Field Strength of Spurious Emissions
433.92MHz	AV:80.82 dBuV/m at 3m distance	AV:60.82 dBuV/m at 3m distance
	PK:100.82dBuV/m at 3m distance	PK:80.82 dBuV/m at 3m distance

Calculation of Average factor

The average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average= Peak Value+20log(Duty Cycle), where the duty factor is calculated from following formula:

The duty cycle is simply the on-time divided by the period:

The duration of one cycle= $1.1594 \times 8 + 0.3623 \times 15 = 14.7097\text{ms}$

Effective period of the cycle= 54.203ms

Duty Cycle= $(14.7097\text{ms}) / 54.203\text{ms} = 0.2714$

Therefore, the averaging factor is found by $20\log(0.2714) = -11.3$

Pulse Width(PW)= 1.1594ms

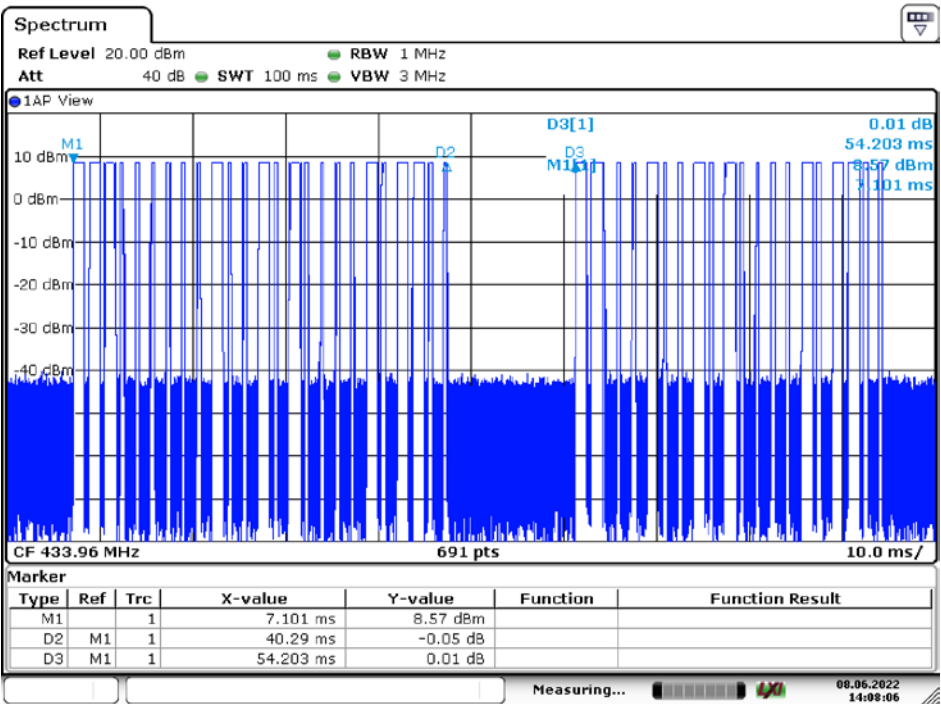
$2/PW = 2 / 1.1594 = 1.73\text{KHz}$

$RBW = 1\text{MHz} > 2/PW (1.73\text{KHz})$

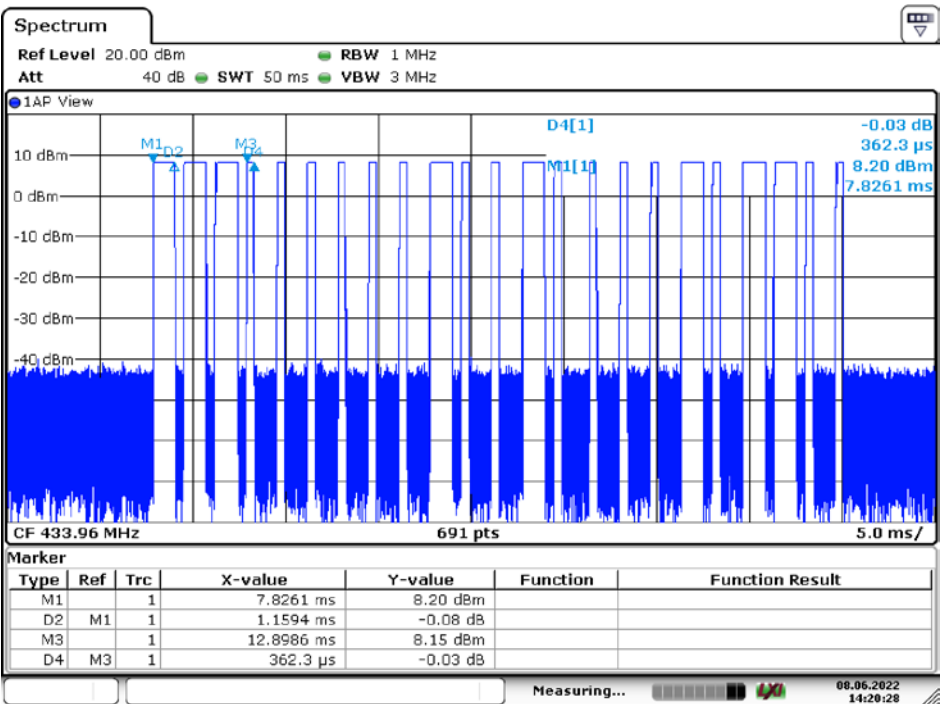
Therefore PDCF is no needed

Please see the test plot below:

pulse width:



pulse width of pulses:



7.2.3 Measurement Result

7.2.4 Spurious Emission below 30MHz (9KHz to30MHz)

Modulation:	ASK	Test Date :	Dec. 13, 2023
Frequency Range:	9KHz-30MHz	Temperature :	21 °C
Test Result:	PASS	Humidity :	50 %
Measured Distance:	3m	Test By:	Big

Freq. (MHz)	Ant. Pol. H/V	Reading Level(dBuV/ m)		Correc t Factor dB	Emission Level(dBuV/ m)		AV G Fact or dB	Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV		PK	AV	PK	AV
-	-	-	-	-	-	-	-	-	-	-	-

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit 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

7.2.5 Radiated spurious emission below 1GHz

Modulation:	ASK	Test Date :	Dec. 13, 2023
Frequency Range:	30-1000MHz	Temperature :	21 °C
Test Result:	PASS	Humidity :	50 %
Measured Distance:	3m	Test By:	Big

Freq. (MHz)	Ant. Pol. H/V	Reading Level(dBuV/ m)		Correc t Factor dB	Emission Level(dBuV/ m)		AVG Facto r dB	Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV		PK	AV	PK	AV
433.920 (F)	H	90.06	78.76	-14.19	75.87	64.57	-11.3	100.82	80.82	-24.95	-16.25
433.920 (F)	V	86.90	75.60	-14.19	72.71	61.41	-11.3	100.82	80.82	-28.11	-19.41
868.080(F)	H	49.86	38.56	-5.49	44.37	33.07	-11.3	80.82	60.82	-36.45	-27.75
868.080(F)	V	44.14	32.84	-5.49	38.65	27.35	-11.3	80.82	60.82	-42.17	-33.47

Note: (1) All Readings are Peak Value.

(2) Correct Factor= Antenna Factor +Cable Loss- Amplifier Gain

(3) Emission Level= Reading Level+Probe Factor +Cable Loss

(4) AV Emission Level = PK Emission Level + Duty Cycle Correction Factor

(5) DF= Duty Cycle Correction Factor

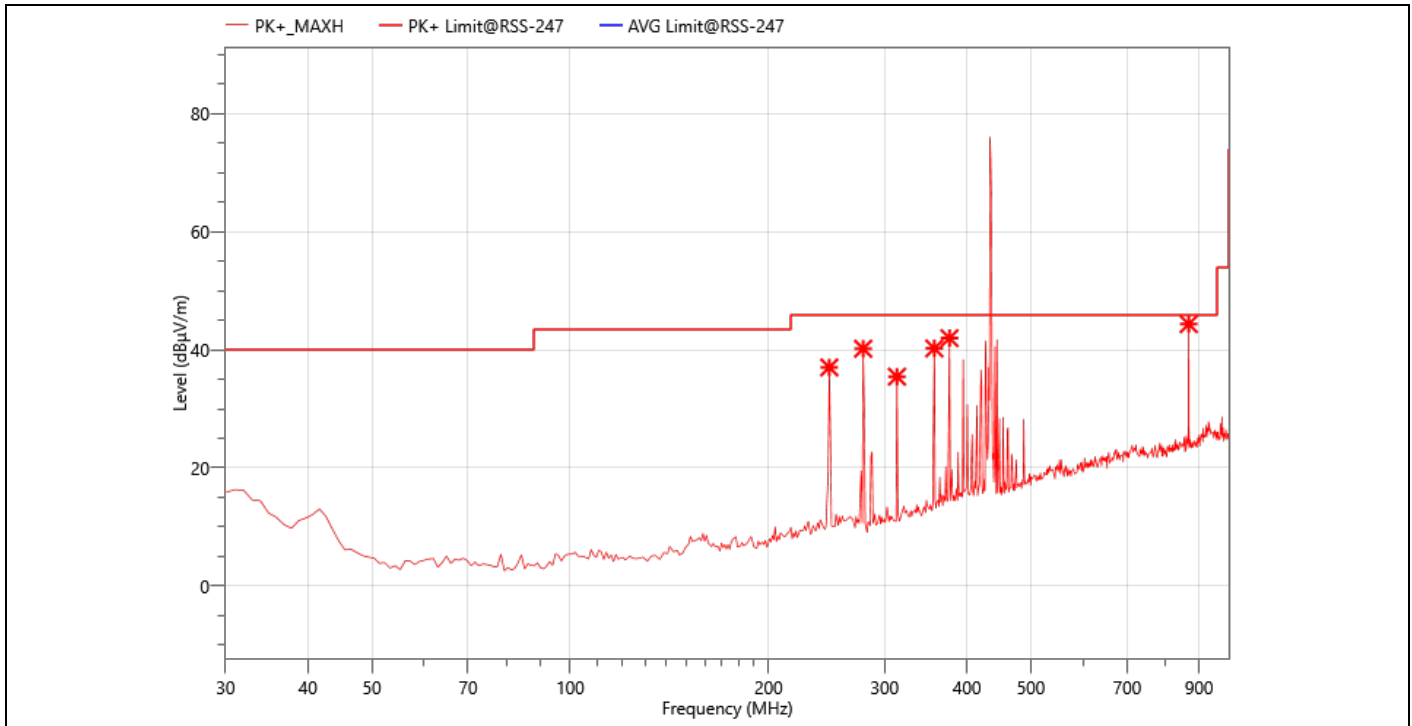
(6) Duty Cycle Correction Factor (dB) = $20\log(\text{Duty cycle}) = -11.3\text{dB}$

(7) Margin = Emission Level –limit

(8) The “*” means restricted bands

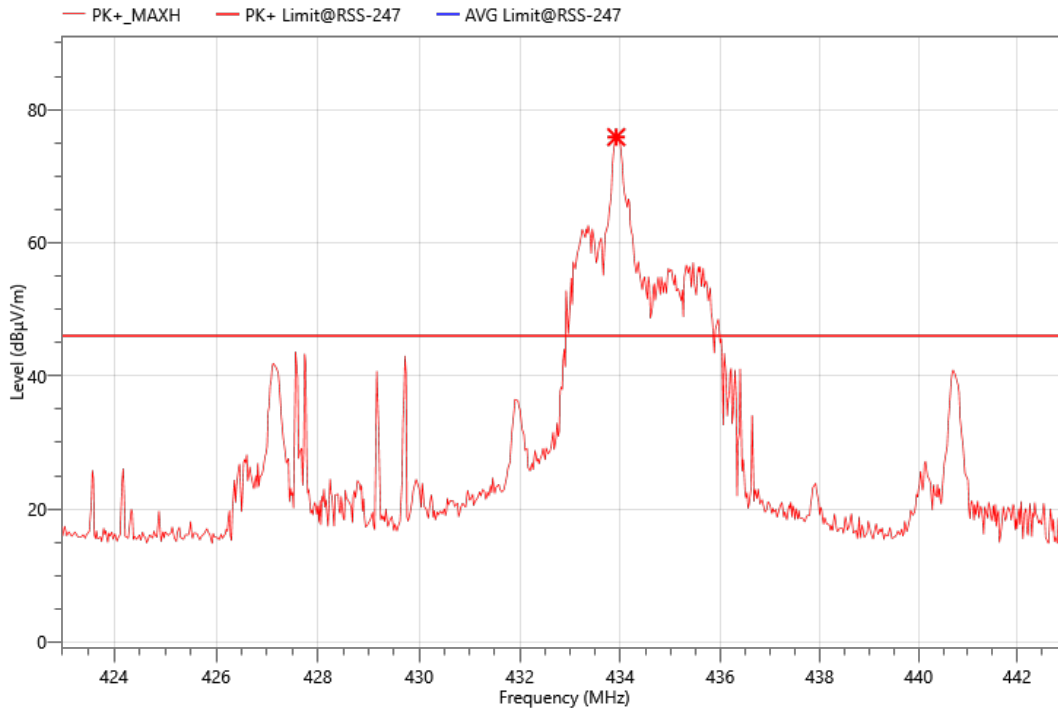
(9) All the x/y/z orientation has been investigated, and only worst case is presented in this report.

(10) The EUT has been evaluated in xyz orientation, and the worst result have been recorded in the report.



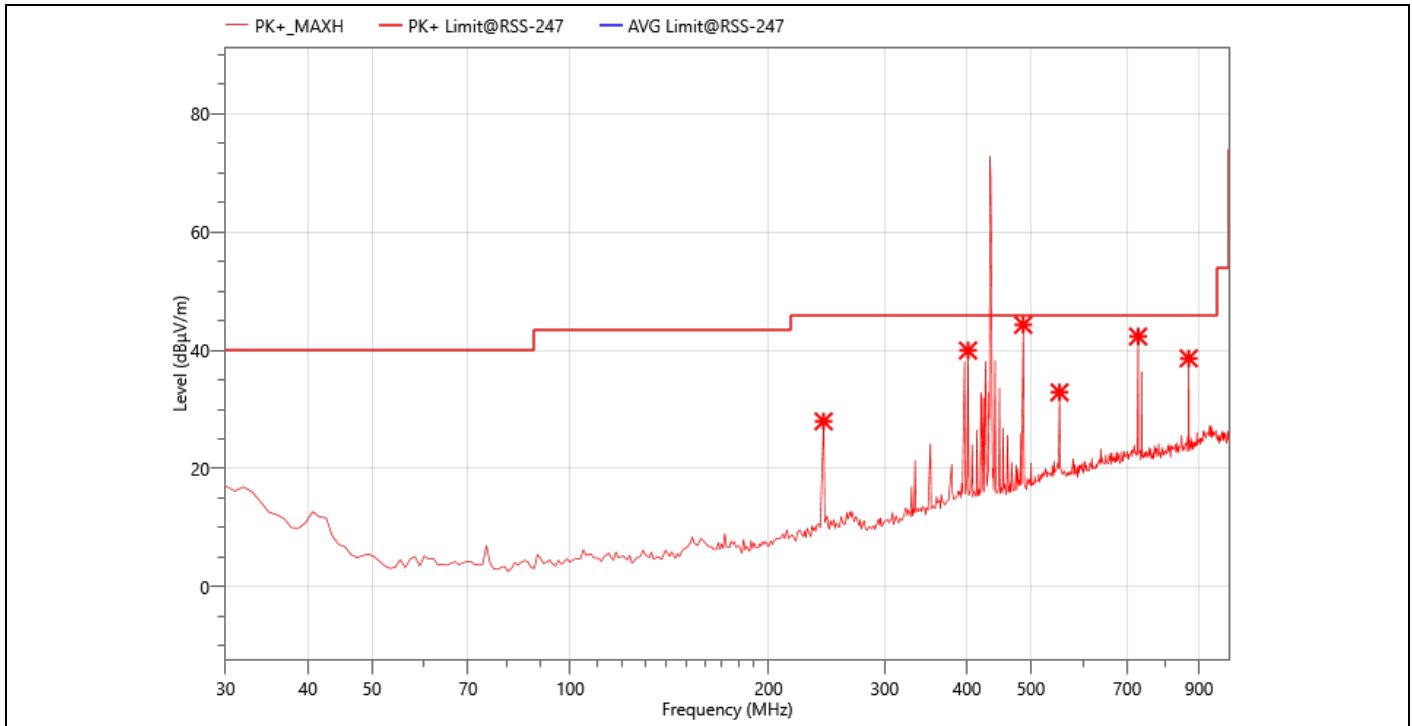
Site:	LAB	Antenna: Horizontal	Temperature(C):21(C)
Limit:	FCC Part 15 C 3m Radiation		Humidity(%):53%
EUT:	Remote Control	Test Time:	2023-12-13
M/N.:	SL-R006	Power Rating:	DC 3V
Mode:	TX	Test Engineer:	Big
Note:			

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	247.280	56.26	37.03	46.00	8.97	PK+	H	-19.23
2	278.320	59.34	40.20	46.00	5.80	PK+	H	-19.14
3	313.240	53.75	35.46	46.00	10.54	PK+	H	-18.29
4	356.890	56.23	40.25	46.00	5.75	PK+	H	-15.98
5	376.290	57.06	41.99	46.00	4.01	PK+	H	-15.07
6	868.080	49.86	44.37	46.00	1.63	PK+	H	-5.49



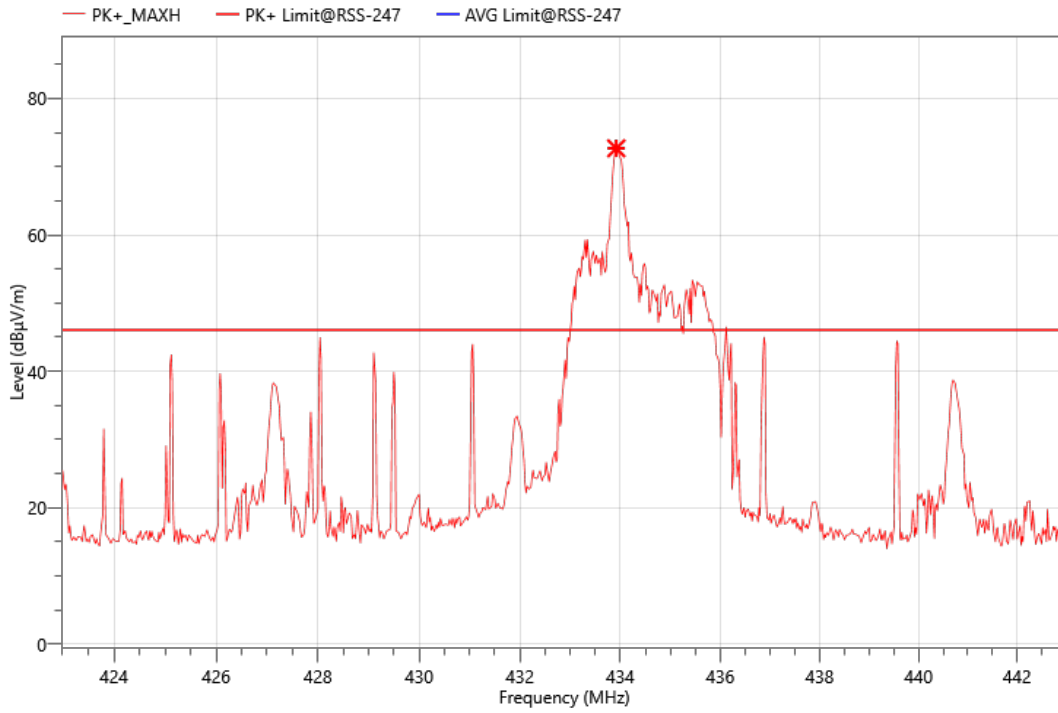
No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	433.920	90.06	75.87	46.00	-29.87	PK+	H	-14.19

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor
 2. Page 21 is the final test result.



Site:	LAB	Antenna::	Vertical	Temperature(C):	21(C)
Limit:	FCC Part 15 C 3m Radiation	Test Time:		Humidity(%):	53%
EUT:	Remote Control	Power Rating:		DC 3V	
M/N.:	SL-R006	Test Engineer:		Big	
Mode:	TX				
Note:					

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	242.430	47.47	27.99	46.00	18.01	PK+	V	-19.48
2	401.510	53.85	39.97	46.00	6.03	PK+	V	-13.88
3	486.870	57.10	44.32	46.00	1.68	PK+	V	-12.78
4	552.830	42.80	32.89	46.00	13.11	PK+	V	-9.91
5	727.430	49.40	42.35	46.00	3.65	PK+	V	-7.05
6	868.080	44.14	38.65	46.00	7.35	PK+	V	-5.49



No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	433.920	86.90	72.71	46.00	-26.71	PK+	V	-14.19

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor
 2. Page 21 is the final test result.

7.2.6 Radiated spurious emission above 1GHz

Modulation:	ASK	Test Date :	Dec. 13, 2023
Frequency Range:	1000-6000MHz	Temperature :	21 °C
Test Result:	PASS	Humidity :	53 %
Measured Distance:	3m	Test By:	Big

Freq. (MHz)	Ant. Pol. H/V	Reading Level(dBuV/ m)		Correc t Factor dB	Emission Level(dBuV/ m)		AVG Facto r dB	Limit 3m(dBuV/m)		Margin(dB)	
		PK	AV		PK	AV		PK	AV	PK	AV
1300.000	H	69.17	12.21	-22.83	46.34	35.04	-11.3	80.82	60.82	-34.48	-25.78
1735.000	H	65.07	12.63	-20.57	44.50	33.20	-11.3	80.82	60.82	-36.32	-27.62
2170.000	H	65.41	18.13	-17.99	47.42	36.12	-11.3	80.82	60.82	-33.40	-24.70
2605.000	H	68.24	22.98	-16.98	51.26	39.96	-11.3	80.82	60.82	-29.56	-20.86
3470.000	H	65.86	25.88	-14.34	51.52	40.22	-11.3	80.82	60.82	-29.30	-20.60
4340.000	H	62.47	26.63	-12.27	50.20	38.90	-11.3	80.82	60.82	-30.62	-21.92
1300.000	V	68.97	12.01	-22.83	46.14	34.84	-11.3	80.82	60.82	-34.68	-25.98
1735.000	V	66.11	13.67	-20.57	45.54	34.24	-11.3	80.82	60.82	-35.28	-26.58
2170.000	V	67.26	19.98	-17.99	49.27	37.97	-11.3	80.82	60.82	-31.55	-22.85
2605.000	V	69.40	24.14	-16.98	52.42	41.12	-11.3	80.82	60.82	-28.40	-19.70
3470.000	V	66.04	26.06	-14.34	51.70	40.40	-11.3	80.82	60.82	-29.12	-20.42
4805.000	V	64.35	30.31	-11.37	52.98	41.68	-11.3	80.82	60.82	-27.84	-19.14

Note: (1) All Readings are Peak Value.

((2) Correct Factor= Antenna Factor +Cable Loss- Amplifier Gain

(3) PK Emission Level= Reading Level+Probe Factor +Cable Loss

(4) AV Emission Level = PK Emission Level + Duty Cycle Correction Factor

(5) True Value = Emission Level + Duty Cycle Correction Factor

(6) DF= Duty Cycle Correction Factor

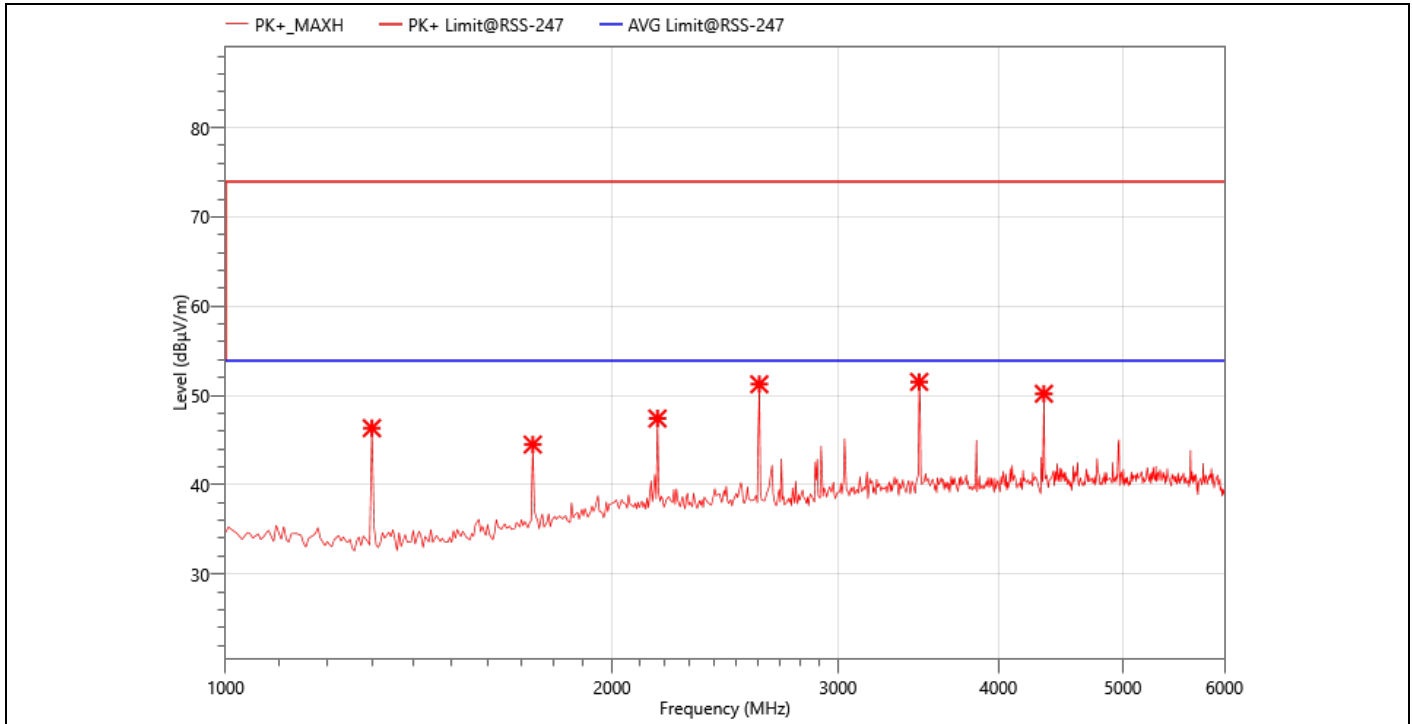
(7) Duty Cycle Correction Factor (dB) = $20\log(\text{Duty cycle}) = -11.3\text{dB}$

(8) Margin = Emission Level –limit

(9) The “*” means restricted bands

(10) All the x/y/z orientation has been investigated, and only worst case is presented in this report.

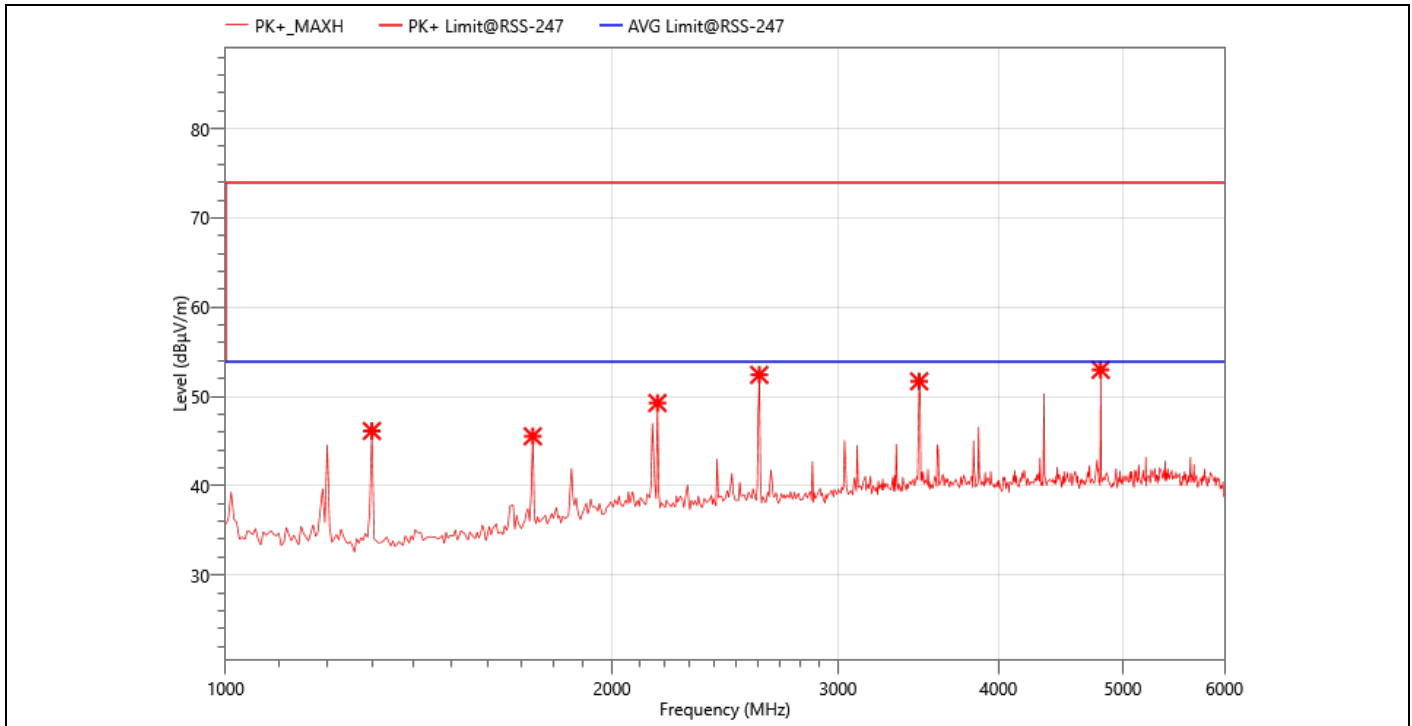
(11) The EUT has been evaluated in xyz orientation, and the worst result have been recorded in the report.



Site:	LAB	Antenna::Horizontal	Temperature(C):21(C)
Limit:	FCC Part 15 C 3m Radiation		Humidity(%):53%
EUT:	Remote Control	Test Time:	2023-12-13
M/N.:	SL-R006	Power Rating:	DC 3V
Mode:	TX	Test Engineer:	Big
Note:			

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	1300.000	69.17	46.34	74.00	27.66	PK+	H	-22.83
2	1735.000	65.07	44.50	74.00	29.50	PK+	H	-20.57
3	2170.000	65.41	47.42	74.00	26.58	PK+	H	-17.99
4	2605.000	68.24	51.26	74.00	22.74	PK+	H	-16.98
5	3470.000	65.86	51.52	74.00	22.48	PK+	H	-14.34
6	4340.000	62.47	50.20	74.00	23.80	PK+	H	-12.27

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor
 2. Page 26 is the final test result.



Site:	LAB	Antenna::Vertical	Temperature(C):21(C)
Limit:	FCC Part 15 C 3m Radiation		Humidity(%):53%
EUT:	Remote Control	Test Time:	2023-12-13
M/N.:	SL-R006	Power Rating:	DC 3V
Mode:	TX	Test Engineer:	Big
Note:			

No.	Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Pol.	Corr. (dB)
1	1300.000	68.97	46.14	74.00	27.86	PK+	V	-22.83
2	1735.000	66.11	45.54	74.00	28.46	PK+	V	-20.57
3	2170.000	67.26	49.27	74.00	24.73	PK+	V	-17.99
4	2605.000	69.40	52.42	74.00	21.58	PK+	V	-16.98
5	3470.000	66.04	51.70	74.00	22.30	PK+	V	-14.34
6	4805.000	64.35	52.98	74.00	21.02	PK+	V	-11.37

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor
 2. Page 26 is the final test result.

7.3 TRANSMISSION REQUIREMENT

7.3.1 Applicable Standard

According to FCC Part 15.231(a)

According to RSS 210 Issue 10 Annex A.1.1

7.3.2 Conformance Limit

A manually operated transmitter shall be equipped with a push-to-operate switch and be under manual control at all times during transmission. When released, the transmitter shall cease transmission within no more than 5 seconds of being released.

7.3.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.3.4 Test Procedure

The following table is the setting of spectrum analyzer.

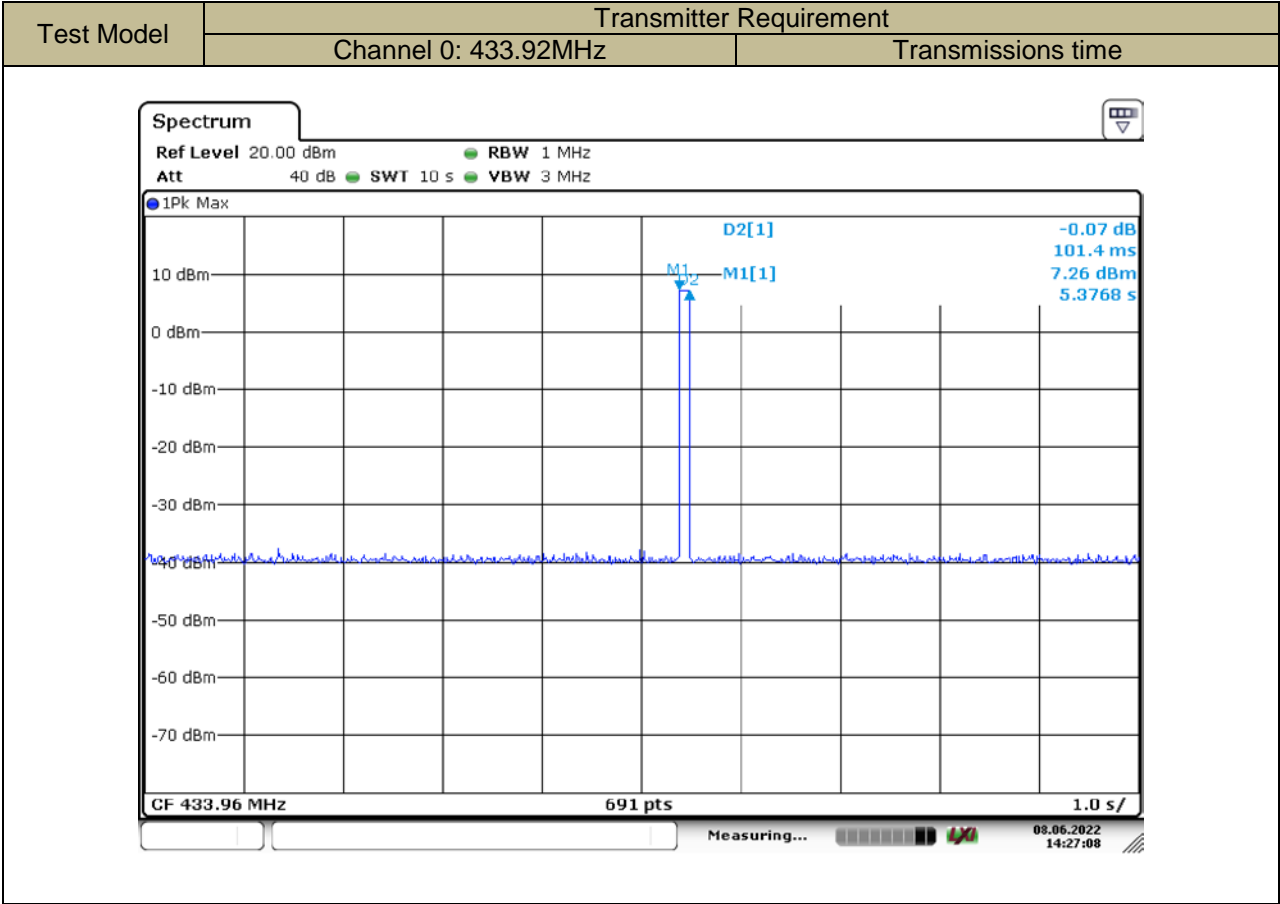
Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	0Hz
RBW	1M
VBW	3M
Detector	Peak
Trace	Max hold
Sweep Time	10S

- The transmitter output (antenna port) was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz, Set Detector to Peak, Trace to Max Hold.
- Set the span to 0Hz and the sweep time to 10s and record the value.

7.3.5 Test Results

Temperature:	21°C	Test Date:	Dec. 13, 2023
Humidity:	53 %	Test By:	Big
Test mode:	TX Mode		

Frequency.(MHz)	Transmissions time	Limit	Verdict
433.92	0.1014S	5 seconds	PASS



7.4 Antenna Application

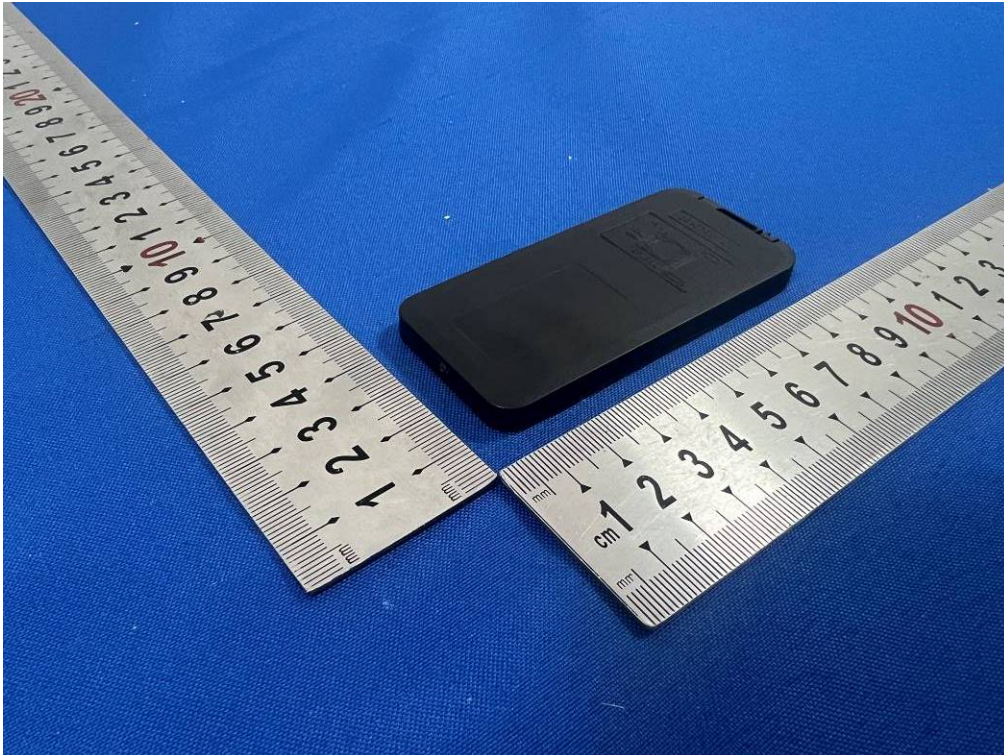
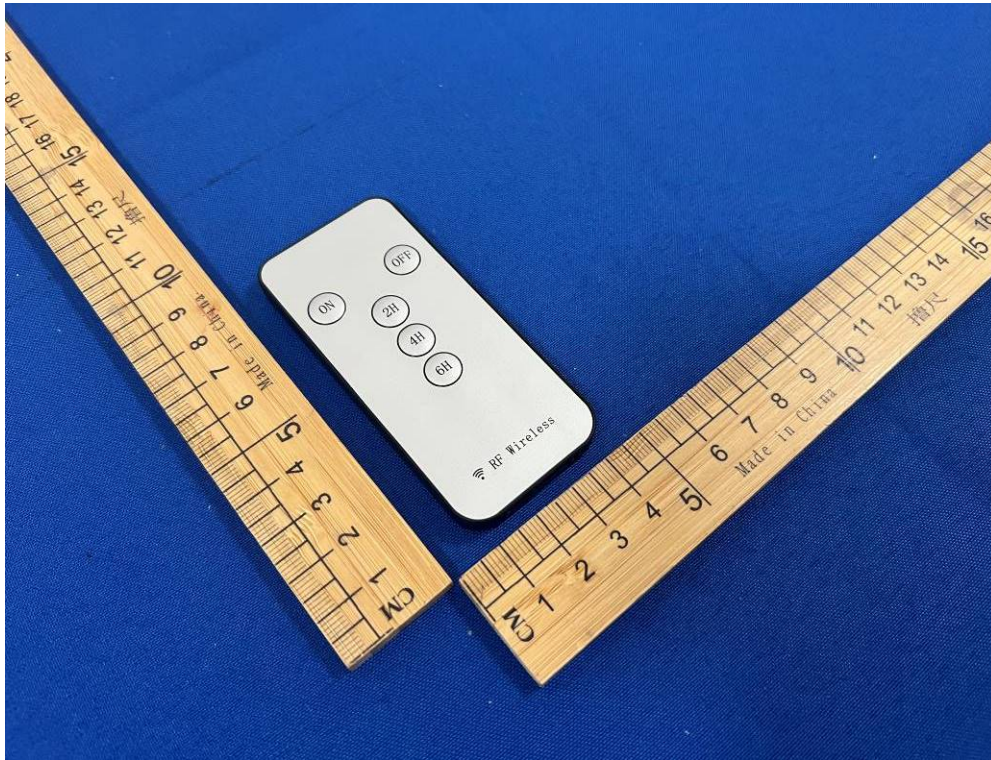
7.4.1 Antenna Requirement

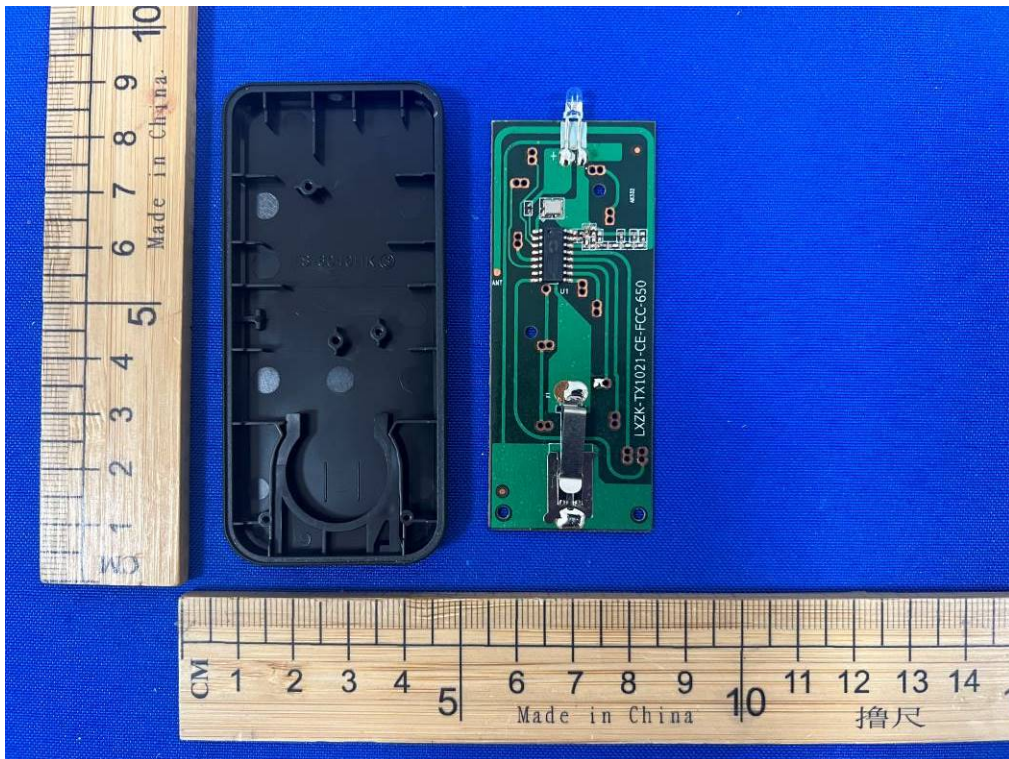
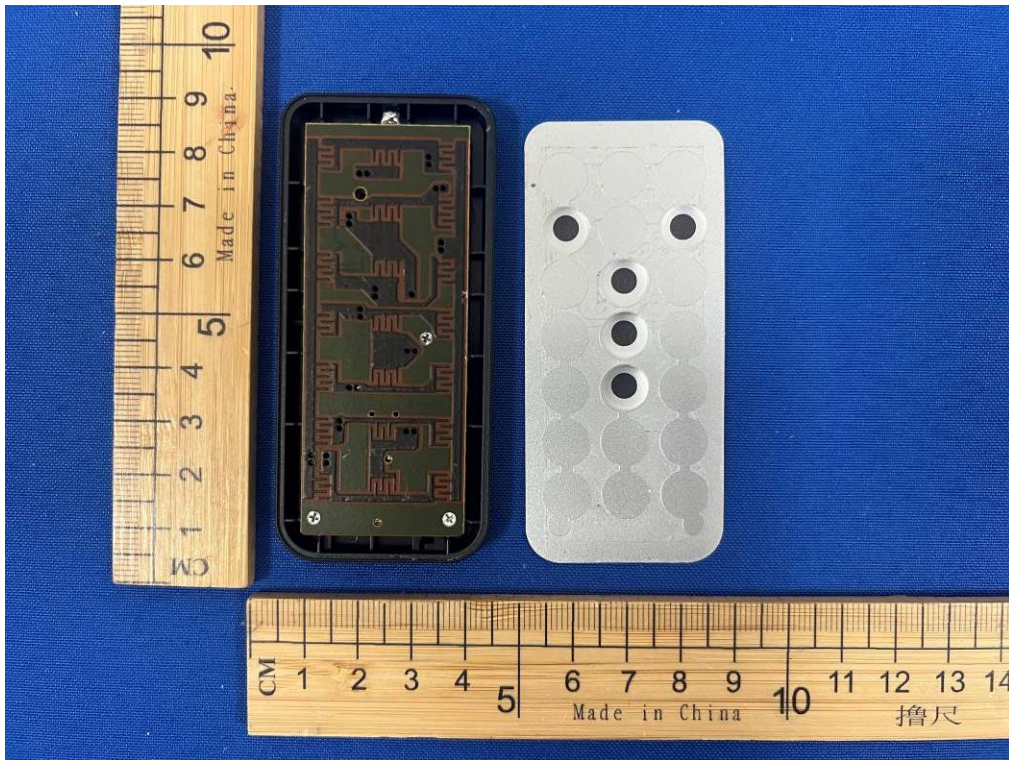
Except for special regulations, the Low-power Radio-Frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 manufacture may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

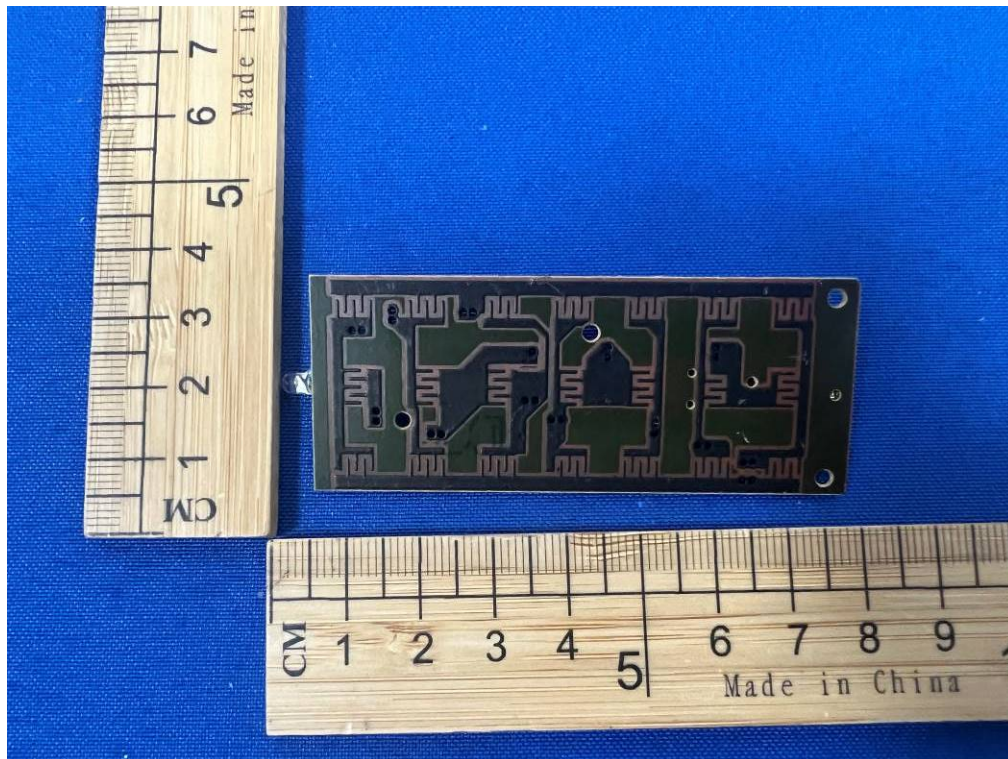
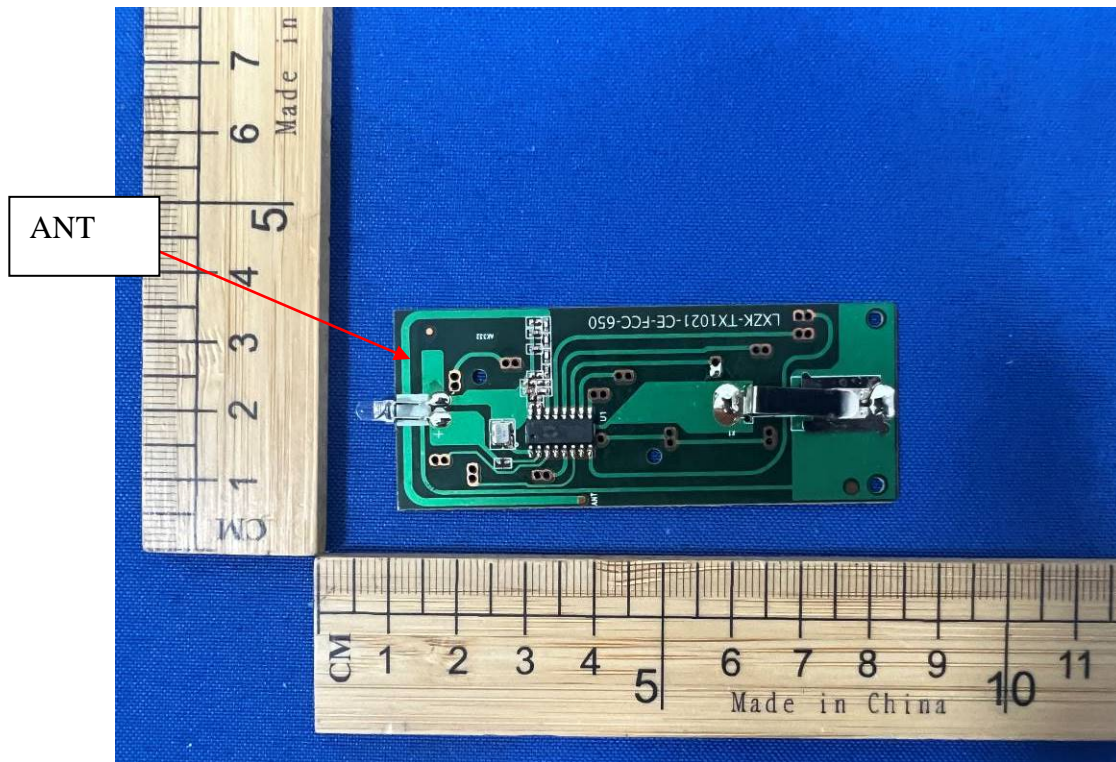
7.4.2 Result

The EUT's antenna is internal antenna, using a permanently attached antenna which is not replaceable. The antenna's gain is -0.2dBi and meets the requirement.

APPENDIX I (Photos of EUT)







-----END OF REPORT-----