



RF Test Report



Report Number : 6128625069502

Applicant : Changzhou Yooksmart
Innovation

Product : Wireless Remote Control

Model : ST-16-02

FCC ID : 2A9IA-ST-16-02

IC : 32635-ST1602

In accordance with

FCC rule Part §15.249

ISED RSS-210

RESPONSIBLE FOR	NAME	SIGNATURE	DATE
Approved By	Jack Chang		2025.12.30
Prepared By	Ariel Hsu		2025.12.30

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service control rules.

EXECUTIVE SUMMARY

TÜV SÜD Asia Ltd., reports apply only to the specific samples tested under stated test conditions. Construction of the actual test samples has been documented. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. The manufacturer/importer is responsible to the Competent Authorities for any modifications made to the production units which result in non-compliance to the relevant regulations. TÜV SÜD Asia Ltd. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from TÜV SÜD Asia Ltd. issued reports.

This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval.

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1 General Information

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

History of this test report

Issue	Description of Change	Date of Issue
1	Initial Issue	2025.12.15
2	Information update	2025.12.30

1.2 Introduction

The information contained in this report is intended to show verification of RF qualification approval. The testing requirements of the standards for the tests listed in Section 1.5.

Applicant : Changzhou Yooksmart Innovation Co., Ltd.
Address : 1F, Building 6C, No. 8 Xihu Road Jintong Industrial Park 213000
Changzhou PEOPLE'S REPUBLIC OF CHINA
Manufacturer : Changzhou Yooksmart Innovation Co., Ltd.
Product Name : Wireless Remote Control
Model Number(s) : ST-16-02
Date of Receipt of EUT : 2025-10-16
Start of Test : 2025-12-05
Finish of Test : 2025-12-09
Test Laboratory : TÜV SÜD Asia Ltd., Taiwan Branch
Address : 7F., No. 37, Sec. 2, Zhongyang S. Rd., Beitou District, Taipei
City 11270, R.O.C. Taiwan
Test Location : TÜV SÜD Asia Ltd., Taiwan Branch, Guishan Laboratory
Address : No. 31, Dinghu Road, Guishan District, Taoyuan City, TAIWAN
(R.O.C.)

The test facility is accredited by TAF (member of ILAC), under number 2573 according to ISO/IEC 17025: 2017.

FCC Designation Number No.: TW2573

ISED CAB identifier No./ Company Number: TW2573 / 32030

1.3 Applied Standard

FCC rule Part §15.249 ISED RSS-210
FCC Part 15, Subpart C §15.249 ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 RSS-Gen, issue 5 April, 2018 (Amendment 2 February 2021) RSS-210 Issue 11 Jun. 2024

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

FCC rule Part §15.249 ISED RSS-210				
FCC Clause	ISED Rules	Test item	Result	Remark
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Not applicable	*
§15.249(a)(e) §15.249(a), 15.209	RSS-210 §B.10 RSS-Gen § 8.9, RSS-Gen § 8.10	Radiated Emission	Compliant	
§15.215(c)	RSS-Gen § 6.7	Emission Bandwidth	Compliant	
§15.203	N/A	Antenna Requirement	Compliant	

* Powered by Battery

2 General EUT Information

All information in this chapter was provided by the applicant.

2.1 Technical Specification of EUT

Items	EUT information
Operating Frequency	2480 MHz
Channel number	1
Field Strength of Fundamental	80.22dBuV/m
Operation Voltage	3V from battery
Modulation	GFSK
Test Software Version	V2.2

2.2 Variation of family model(s)

2.2.1 List of family model(s)

Not applicable

2.2.2 Reason for selection of EUT

Not applicable

2.3 Antenna List

Antenna Type	Brand	Model	Connector	Freq. (MHz)	Peak Antenna Gain (dBi)
chip	Kinghelm	KH3216-A35	Permanently attached antenna	2400 ~ 2500	5.19

3 Configuration of Equipment

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.

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Numbers assigned to equipment on the diagram in "3.3 System configuration" correspond to the list in "3.1 Equipment used" and "3.2 Cable(s) used".

This test configuration is based on the manufacture's instruction.

Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

The EUT has been tested as an independent unit with other necessary accessories or support units.

3.1 Equipment used

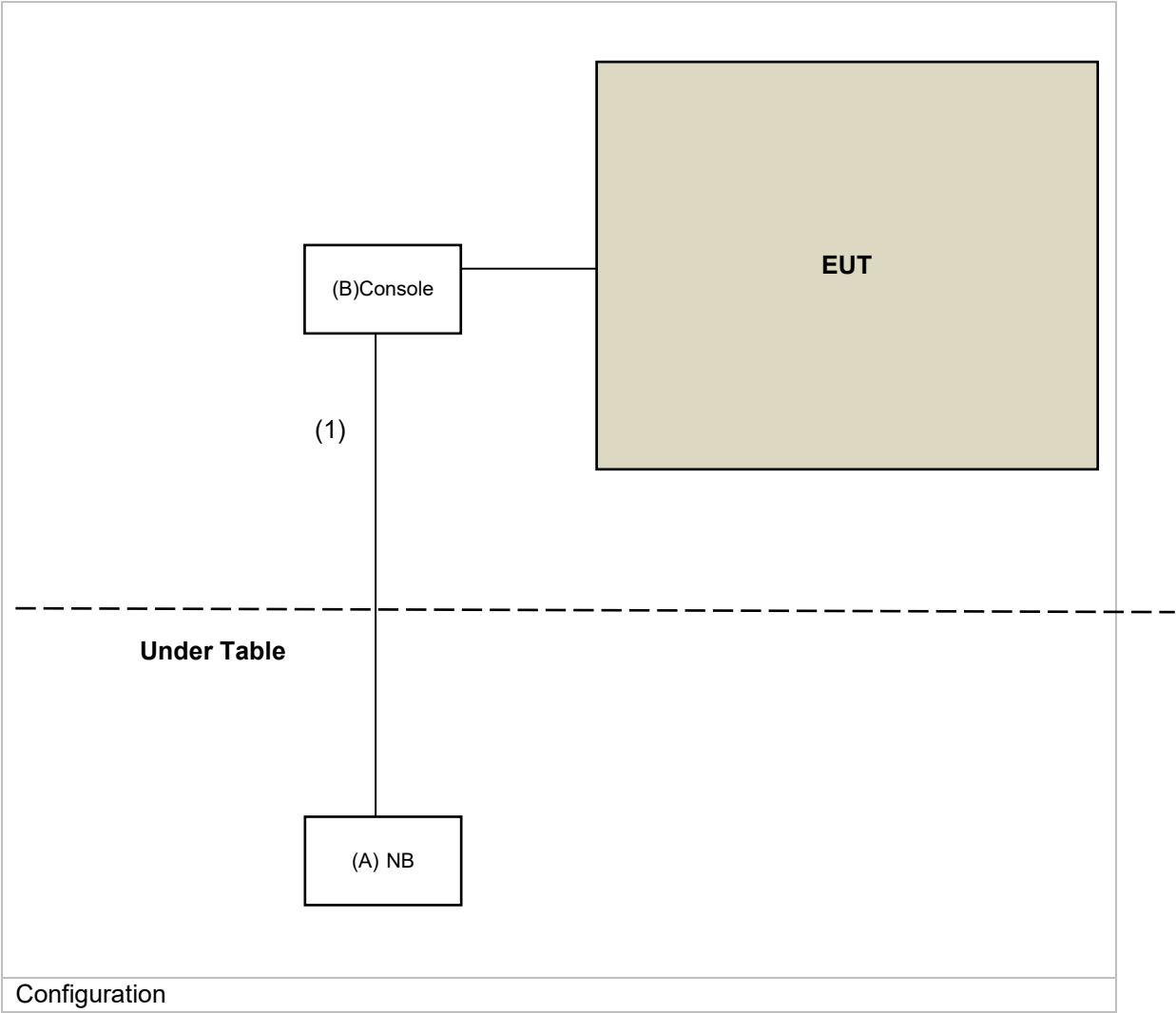
No.	Product	Brand	Model	Serial No.	Remarks
A	Laptop	Lenovo	TP00048A	PC-00NQMT	Provided by Lab
B	USB Console	REYAX	RYLS135	N/A	Provided by Lab

3.2 Cable(s) used

No.	Cable Descriptions	Brand	Model	Length(m)	Remarks
1	Extension Cable	Benevo	BUSB0300A MF	5	Provided by Lab



3.3 System configuration



4 General Test Configurations

The EUT has been tested under Transmitting and Receiving condition. And used to control the EUT for staying in engineering mode that enables selectable of channel, and capable of continuous transmitting and constant receiving mode.

Remark: All applicable test items were tested based on the combination of modulation scheme that generates the worst case.

4.1 Operating channels and frequencies

Channel	Freq. (MHz)
0	2480

4.2 Description of test mode

- 1) The EUT has been tested under operating condition.
- 2) Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Field Strength of Fundamental Emissions

- ☐ Pre-scan full test was applied on all test modes, but only the worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	2480	2480

Power Spectral Density

- ☐ Pre-scan full test was applied on all test modes, but only the worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Data Rate (Mbps)
-	2480	2480	1.0

Radiated Spurious Emission

- ☐ Pre-scan full test was applied on all test modes, but only the worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Data Rate (Mbps)
-	2480	2480	1.0

4.3 Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	20-26 °C	50-70 %	Sam Huang
Radiated Spurious Emissions above 1 GHz	20-26 °C	50-70 %	Sam Huang
Radiated Spurious Emissions below 1 GHz	20-26 °C	50-70 %	Sam Huang
Mains Conducted Emission	20-26 °C	50-70 %	Sam Huang

5 Test Result

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Refer to EUT photo for details.

5.2 Field Strength of Fundamental Emissions

5.2.1 Measurement procedure

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:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength

RA = Reading Amplitude

AF = Antenna Factor

CL = Cable Attenuation Factor (Cable Loss)

AG = Amplifier Gain

Notes:

1. Distance extrapolation factor = $40 \log$ (required distance/ test distance) (dB)
2. The lower limit shall apply at the transition frequencies.
3. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification:
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS (dBμV/m) = Spectrum. Reading level(dBμV) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amp Gain (dB)

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

5.2.2 Measurement procedure

1. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

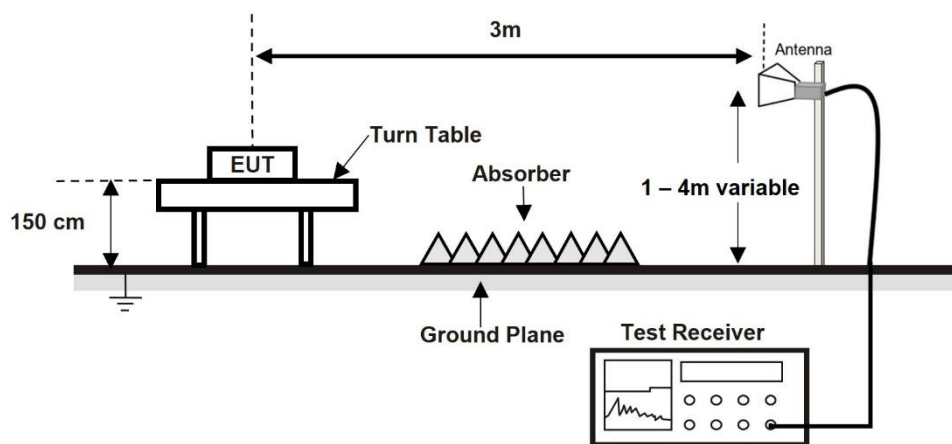
Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

5.2.3 Test Setup

<Radiated Emissions above 1 GHz>



5.2.4 Limit

Frequency (MHz)	Field strength of fundamental emissions (millivolts/meter)	Unwanted emissions (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Notes:

1. Distance extrapolation = $40 \cdot \log (\text{Required Distance(m)} / \text{Test Distance(m)})$
2. Emission level (dB μ V/m) = $20 \log \text{Emission level } (\mu\text{V/m})$
3. Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)
Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)
4. Field strength of fundamental (Average) 50 mV/m = $20 \log (50 \times 1000) = 94 \text{ dB}\mu\text{V/m}$
5. Field strength of fundamental (Peak) 114 dB μ V/m = $94 \text{ dB}\mu\text{V/m} + 20$
6. Unwanted emissions (Average) 500 μ V/m = $20 \log (500) = 54 \text{ dB}\mu\text{V/m}$
7. Unwanted emissions (Peak) 74 dB μ V/m = $54 \text{ dB}\mu\text{V/m} + 20$

The field strength indicates the measurement value at a distance of 3 meters from the device, and is measured by measurement instrumentation employing an average detector, adhering to the peak requirements of Section 6.15.2. The peak field strength of the point-to-point operation device along the antenna orientation angle shall be less than or equal to 2500 mV/m

5.2.5 Measurement result

Please refer to Appendix D

5.3 Radiated Spurious Emissions and Band Edges

5.3.1 Measurement procedure

For Radiated Emissions below 30 MHz

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

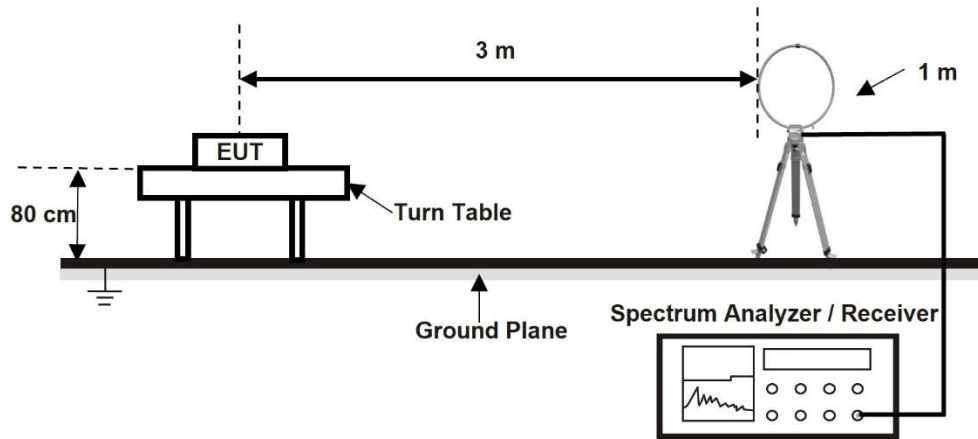
- 1) The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 6) The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

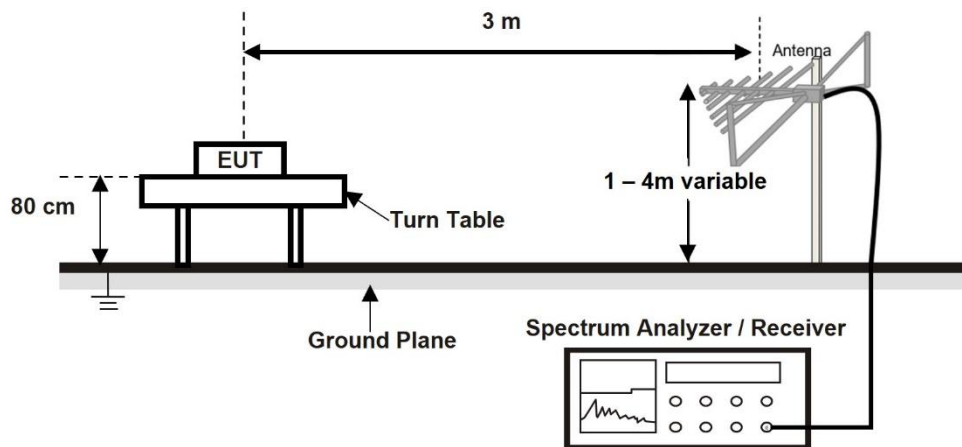
- 1) The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- 4) All modes of operation were investigated and the worst-case emissions are reported.
- 5) The Radiated Emissions testing was performed in the X, Y and Z axis orientation. The worst-case Axis orientation is recorded in this test report.

5.3.2 Test Setup

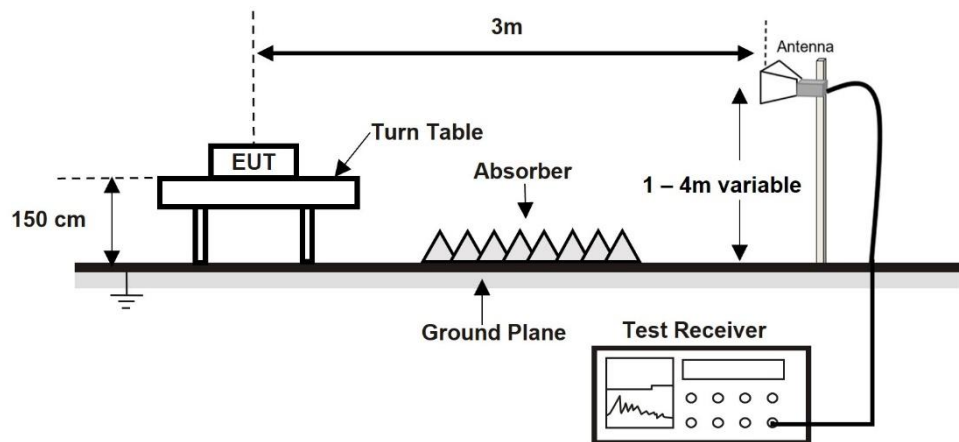
Radiated Emission Test Set-Up, Frequency Below 30MHz.



Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



For the actual test configuration, please refer to the attached file (Test Setup Photo).

5.3.3 Limit

- 1) Only spurious emissions are permitted in any of the frequency bands listed in §15.205 and Section 8.10 of RSS-Gen.
- 2) The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.
- 3) Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in §15.209 and section 8.9 of RSS-Gen, whichever is less stringent.

Frequency (MHz)	Field strength of fundamental emissions (millivolts/meter)	Unwanted emissions (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

5.3.4 Measurement result

Please refer to Appendix E

Remark:

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

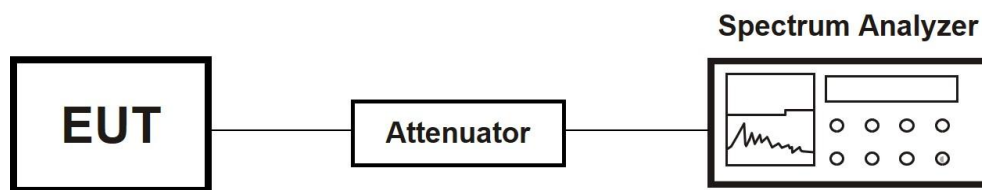
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

5.4 Emission Bandwidth

5.4.1 Measurement procedure

- 1) Place the EUT on the table and set it in transmitting mode.
- 2) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3) Set the spectrum analyzer as
RBW=1% of the approximate emission bandwidth,
VBW = 3 times RBW,
Span= 2 to 5 times of the OBW.
Sweep=auto
Detector = Peak, and Max hold
- 4) Turn on the -20 dB Bandwidth function, max reading. (FCC)
- 5) Turn on the 99% bandwidth function, max reading. (ISED)

5.4.2 Test Setup



5.4.3 Limit

§2.1049 (h) & 15.215(c)

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

RSS-Gen Section 6.7

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.



5.4.4 Measurement result

Please refer to Appendix C

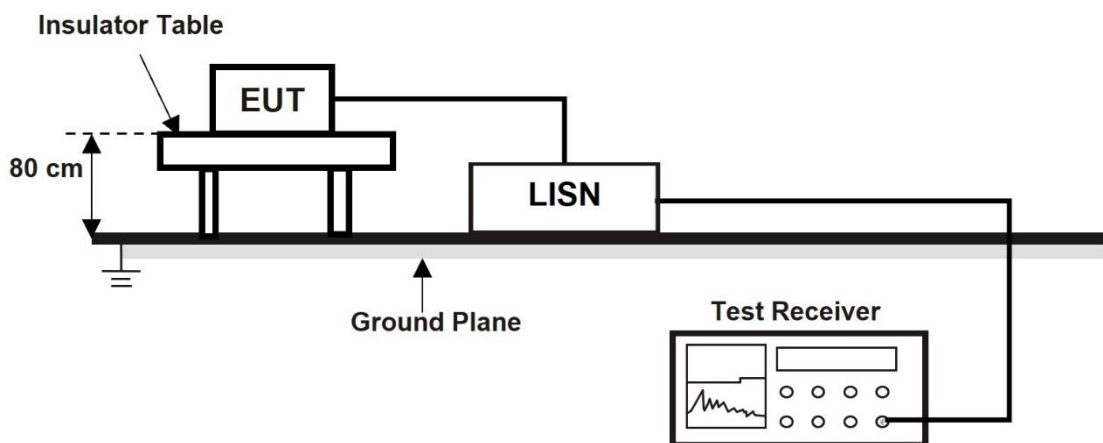
5.5 AC Mains Emission

5.5.1 Measurement procedure

- 1) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- 2) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 3) The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

5.5.2 Test Setup



5.5.3 Limit

Frequency rang MHz e	Limits (dBμV)	
	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

Notes:

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



5.5.4 Measurement result

N/A

6 Measurement Uncertainty

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

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

Radiated Spurious Emission Measurement Uncertainty		
Frequency	Polarization	Measurement uncertainty
9kHz~30MHz	Vertical	± 2.8 dB
30MHz - 1000MHz		± 4.82 dB
1GHz - 18GHz		± 4.37 dB
18GHz - 40GHz		± 4.21 dB
9kHz~30MHz	Horizontal	± 2.8 dB
30MHz - 1000MHz		± 4.54 dB
1GHz - 18GHz		± 4.37 dB
18GHz - 40GHz		± 4.21 dB

Test Items	Measurement uncertainty
AC Power Line Conducted Emission	± 2.32 dB
Emission Bandwidth	± 1.53 Hz
Undesignable radiated emission measurement	± 1.68 dB
Temperature	± 0.7 °C
Humidity	± 3 %
DC / AC Power Source	± 1 %

7 Photographs of the Test Set-Up

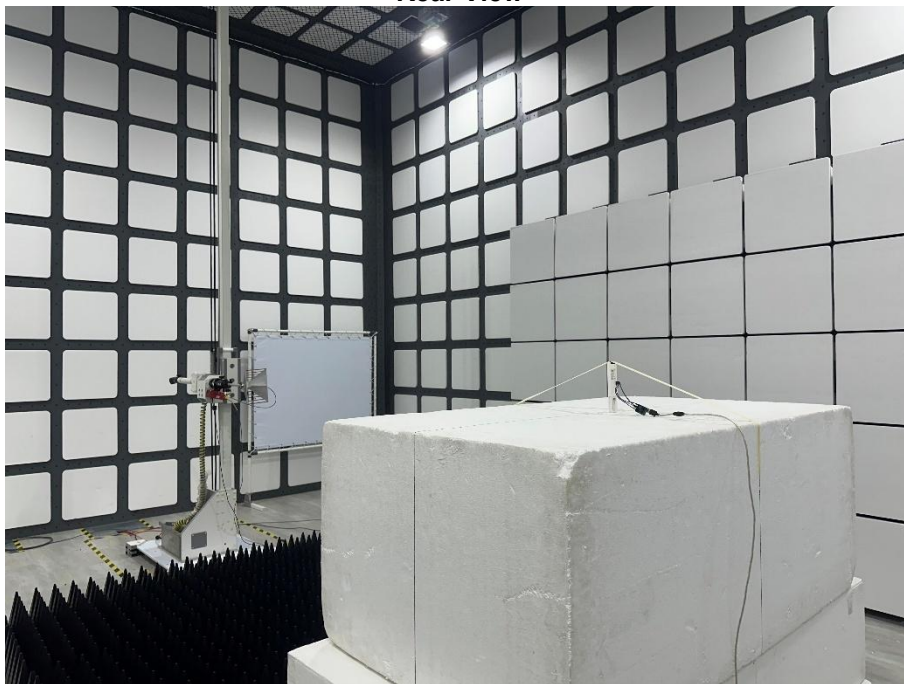
Set-up for Spurious Emissions (Front View)

Front View



Set-up for Spurious Emissions (Rear View)

Rear View



Set-up for Spurious Emissions (Rear View)

Rear View



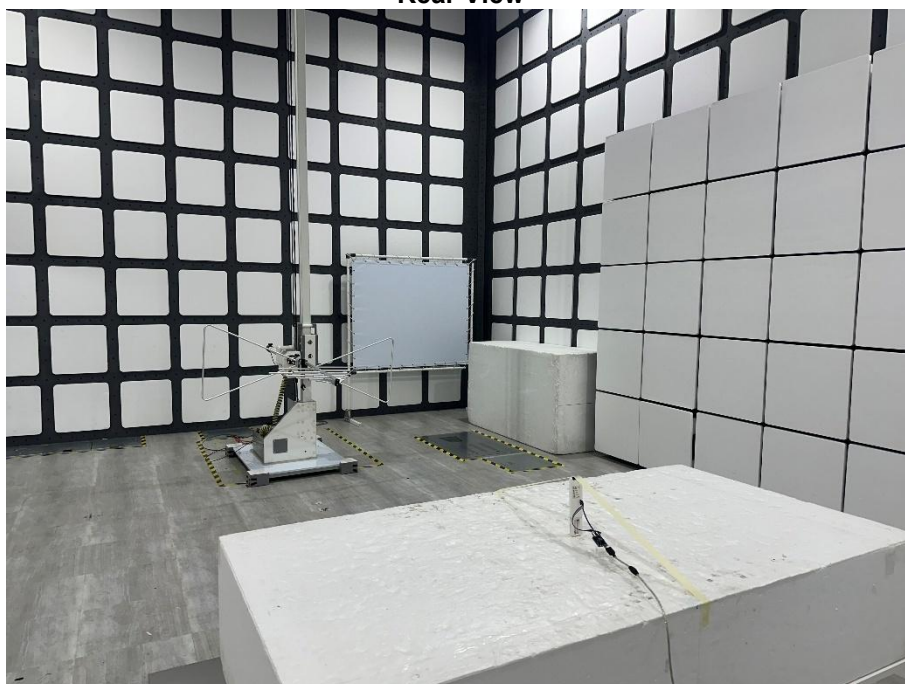
Set-up for Spurious Emissions (Front View)

Front View



Set-up for Spurious Emissions (Rear View)

Rear View



Set-up for Spurious Emissions (Rear View)

Rear View



Appendix A. Test Equipment

Test Software	Manufacturer	Model No.	Version	Remark
Test Software	Keysight	IOT0047A	24.11.25.17	Conducted
Test Software	Audix	e3	V9	Radiation/Conduction

Test Equipment Used (Field Strength of Fundamental Emissions & spurious emission)

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSV3044	101348	Jul. 29, 2025	Jul. 28, 2026
Spectrum Analyzer	R&S	ESR 7	102600	Aug. 05, 2025	Aug. 04, 2026
Horn(18-40G)	RF SPIN	DRH0844	LE2C01A0844	Dec. 20, 2024	Dec. 19, 2025
Horn(1-18G)	RF SPIN	DRH18-E	211218A18EN	Nov. 05, 2025	Nov. 04, 2026
Bi-log	Schwarzbeck	VULB 9168	01499	Thu. 19, 2025	Thu. 18, 2026
Preamplifier(1-18G)	SGH	SGH118-HS	20230214-5	Apr. 10, 2025	Apr. 09, 2026
Preamplifier(18-40G)	SGH	SGH184	20230214-8	Apr. 10, 2025	Apr. 09, 2026
Preamplifier(30M-1G)	SGH	SGH0301	20230214-4	Apr. 24, 2025	Apr. 24, 2026
Loop Antenna	TESEQ	HLA-6121	64165	Mar. 27, 2025	Mar. 26, 2026

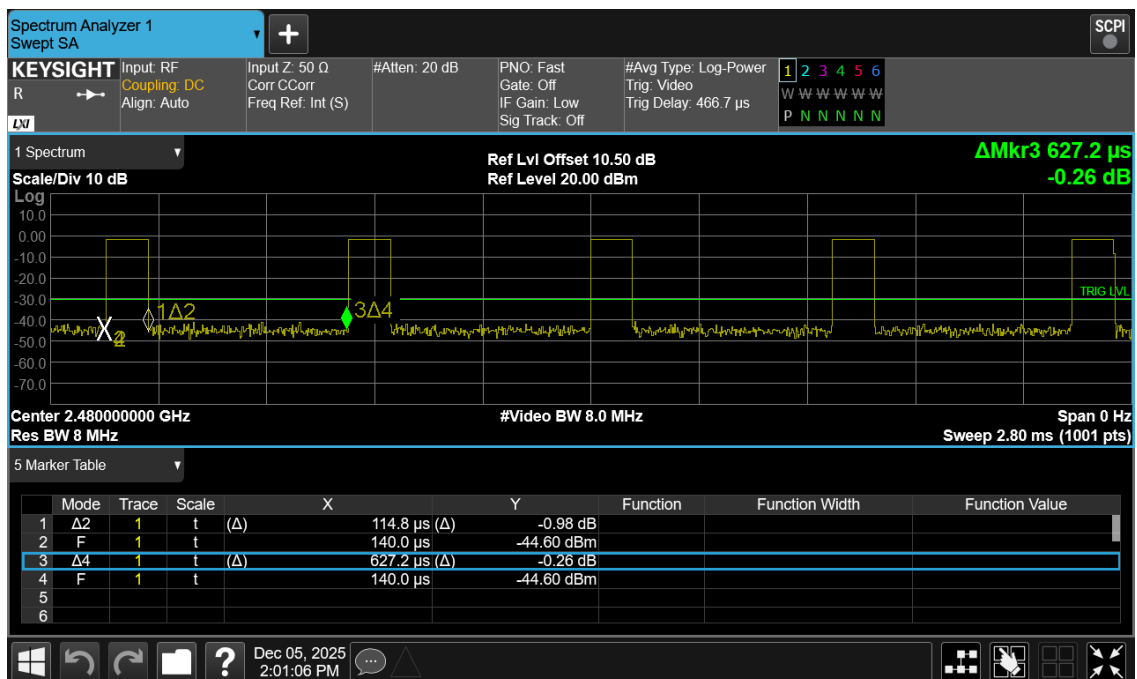
Test Equipment Used (Duty & Emission Bandwidth)

Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9010B	MY63440384	Jul. 11, 2025	Jul. 10, 2026

*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.

SRD 2.4G

SRD 2.4G		
Duty On (ms):	0.115	VBW ≥ 1/Ton
VBW (Hz):	10k	





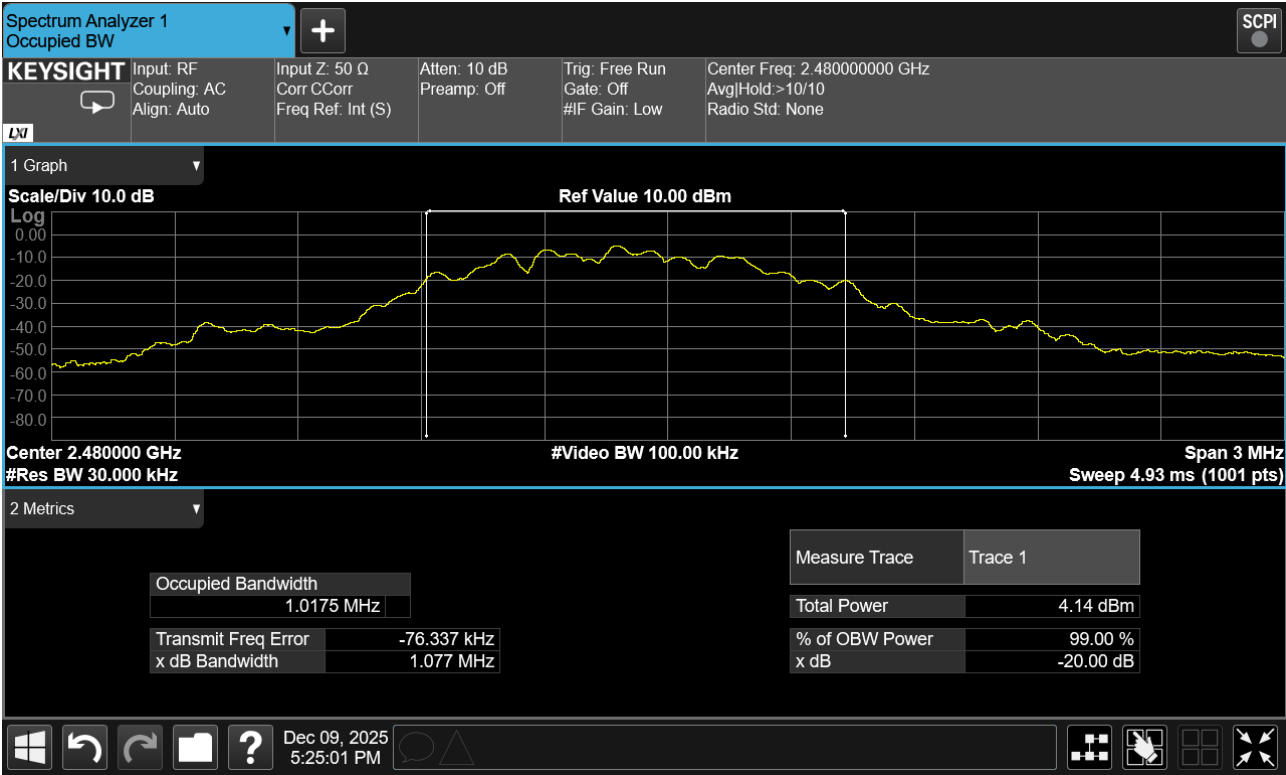
Appendix C. Emission Bandwidth

20dB Bandwidth

<SRD 2.4G>

Channel Frequency	20dB Bandwidth	Measured Frequencies		Operating Frequency Band
(MHz)	(MHz)	FL (MHz)	FH (MHz)	(MHz)
2480	1.077	2479.4615	2480.5385	2400 ~ 2483.5

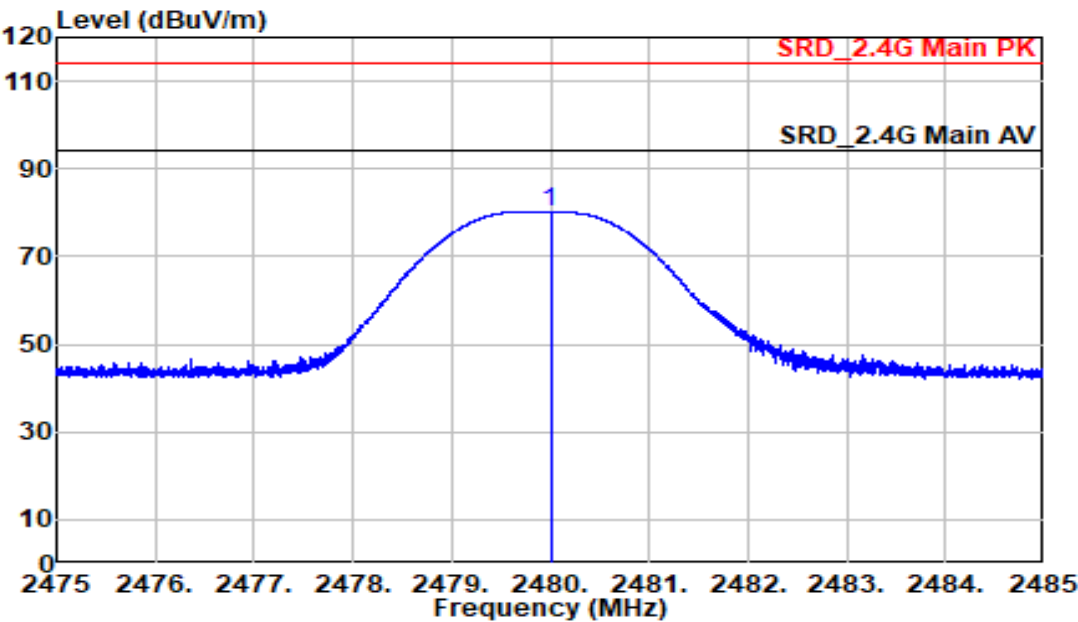
Channel Frequency	99% Bandwidth	Measured Frequencies		Operating Frequency Band
(MHz)	(MHz)	FL (MHz)	FH (MHz)	(MHz)
2480	1.0175	2479.4912	2480.5087	2400 ~ 2483.5





Appendix D Field Strength of Fundamental Emissions

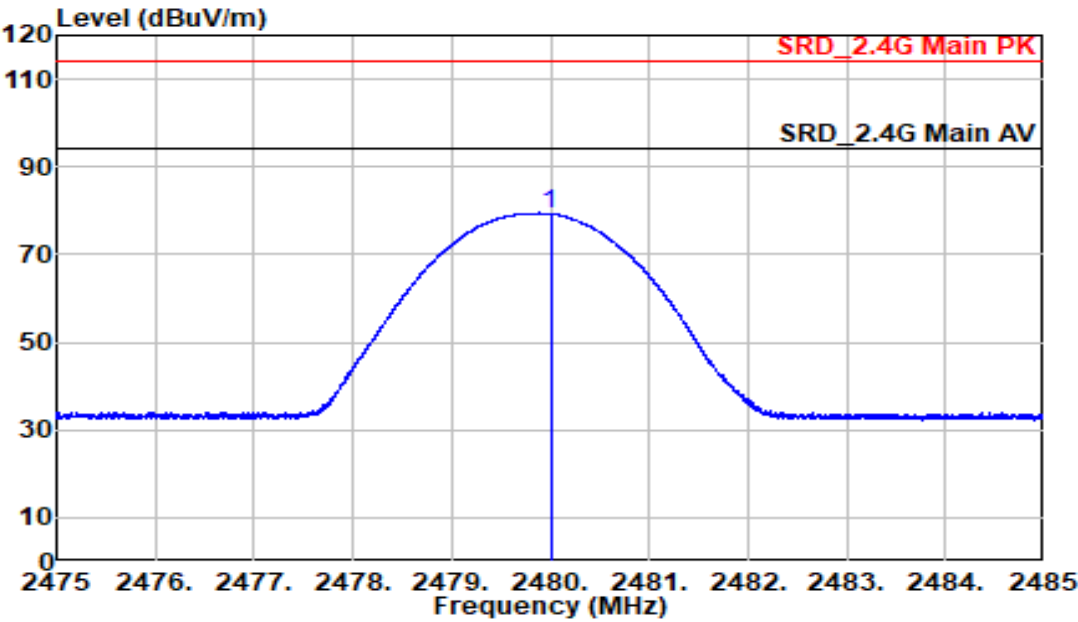
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Main	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV	dB	dB	PK/QP/AV	CM	DEG
2480.000	91.40	-11.18	80.22	114.00	-33.78	Peak	315	114



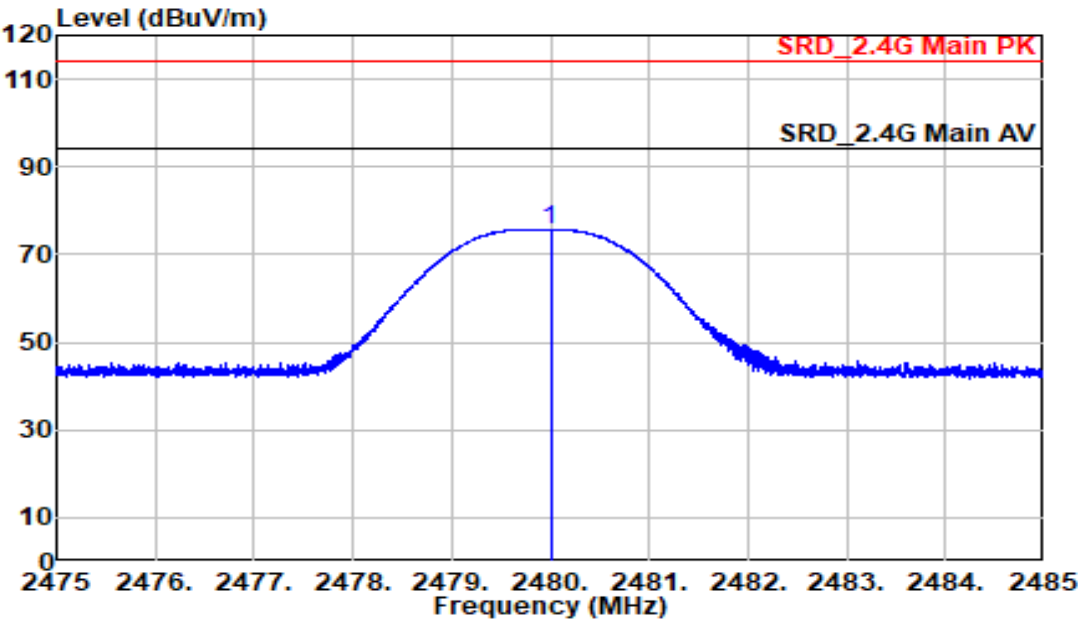
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Main	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV	dBuV/m	dB	PK/QP/AV	CM	DEG
2480.000	90.49	-11.18	79.31	94.00	-14.69	Average	315	114



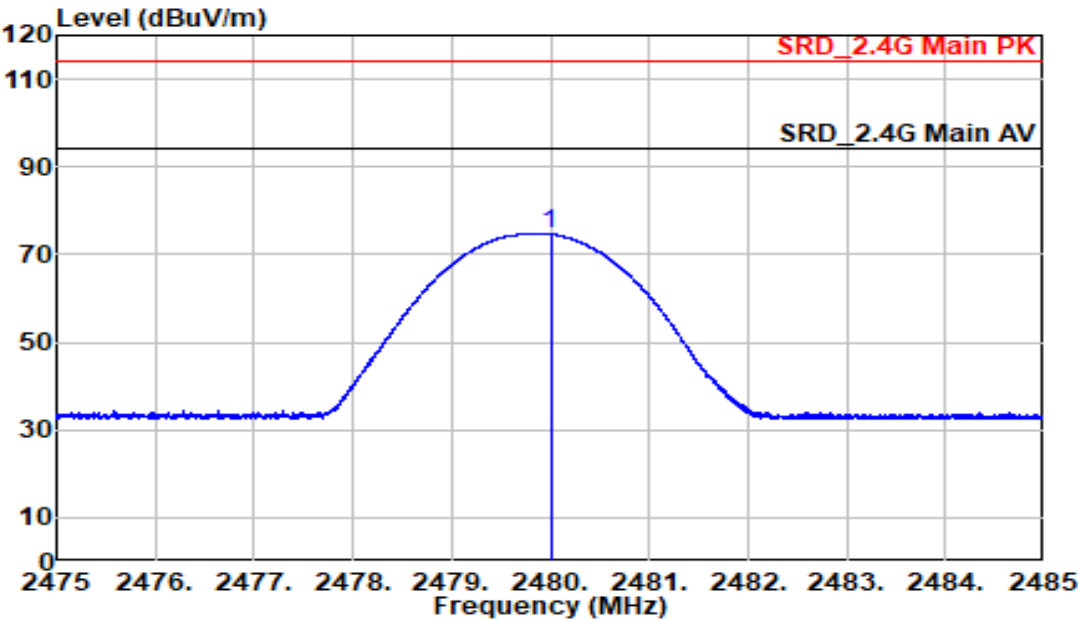
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Horizontal
Mode	:Main	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
2480.000	86.81	-11.18	75.63	114.00	-38.37	Peak	390	331



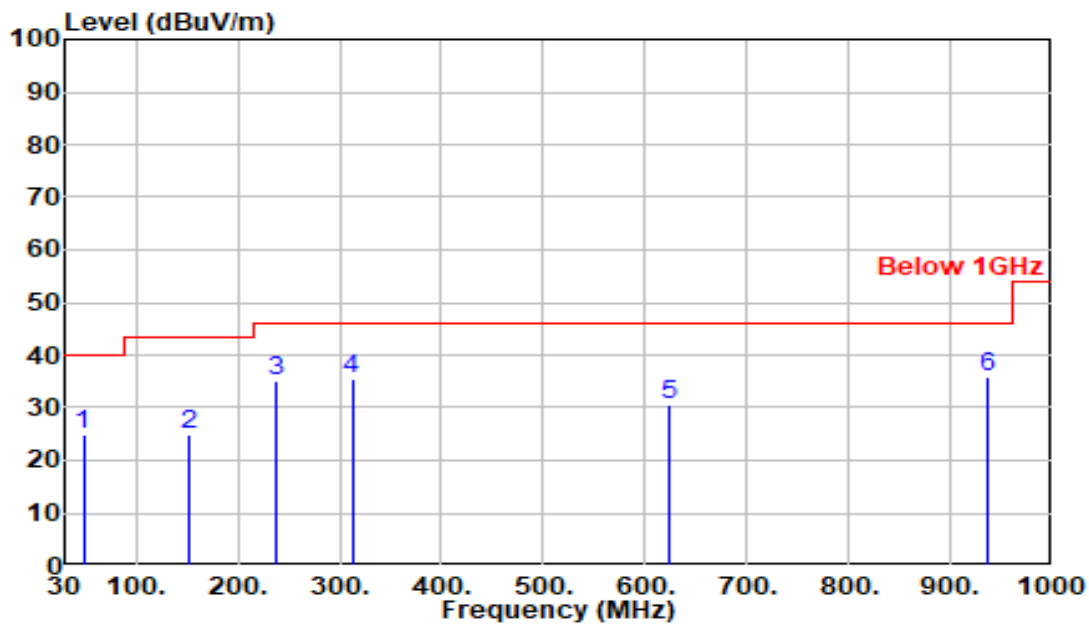
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Horizontal
Mode	:Main	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV		dB	PK/QP/AV	CM	DEG
	dBuV		dBuV/m	dBuV/m				
2480.000	85.87	-11.18	74.69	94.00	-19.31	Average	390	331

Appendix E. Radiated Data

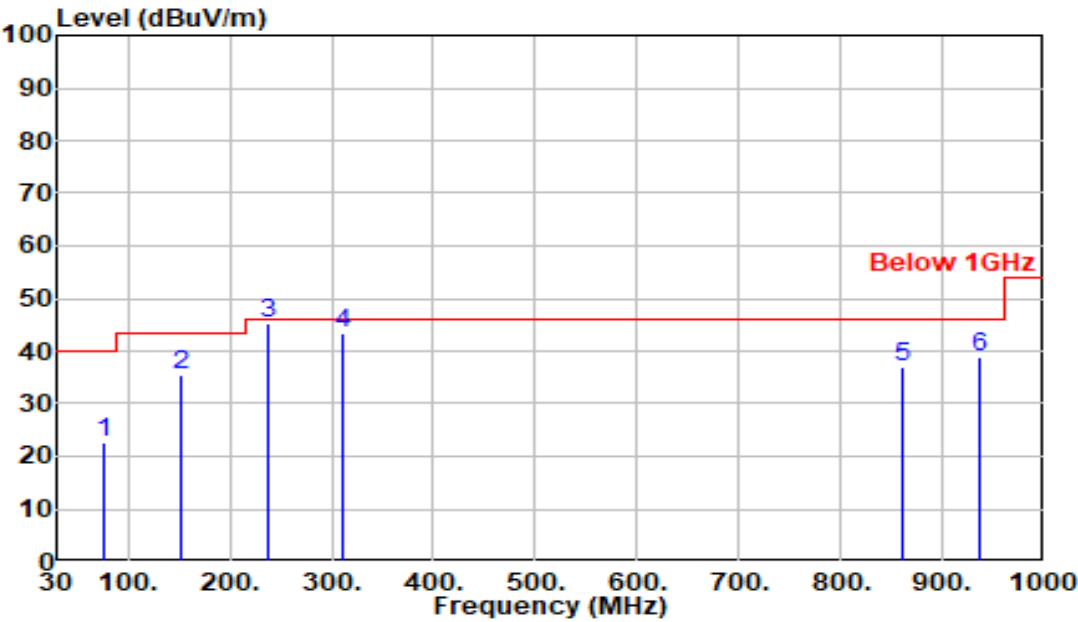
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Tx	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq MHz	Read LV. dBuV	Factor dB/m	Emission LV dBuV/m	Limit dBuV/m	Margin dB	Detector PK/QP/AV	Apos CM	TPos DEG
48.430	48.43	-23.66	24.77	40.00	-15.23	Peak	223	295
151.250	48.77	-23.85	24.92	43.50	-18.58	Peak	197	39
236.610	61.24	-26.14	35.10	46.00	-10.90	Peak	261	310
312.270	58.37	-22.79	35.58	46.00	-10.42	Peak	303	103
623.640	45.94	-15.20	30.74	46.00	-15.26	Peak	251	221
935.980	46.55	-10.73	35.82	46.00	-10.18	Peak	256	143



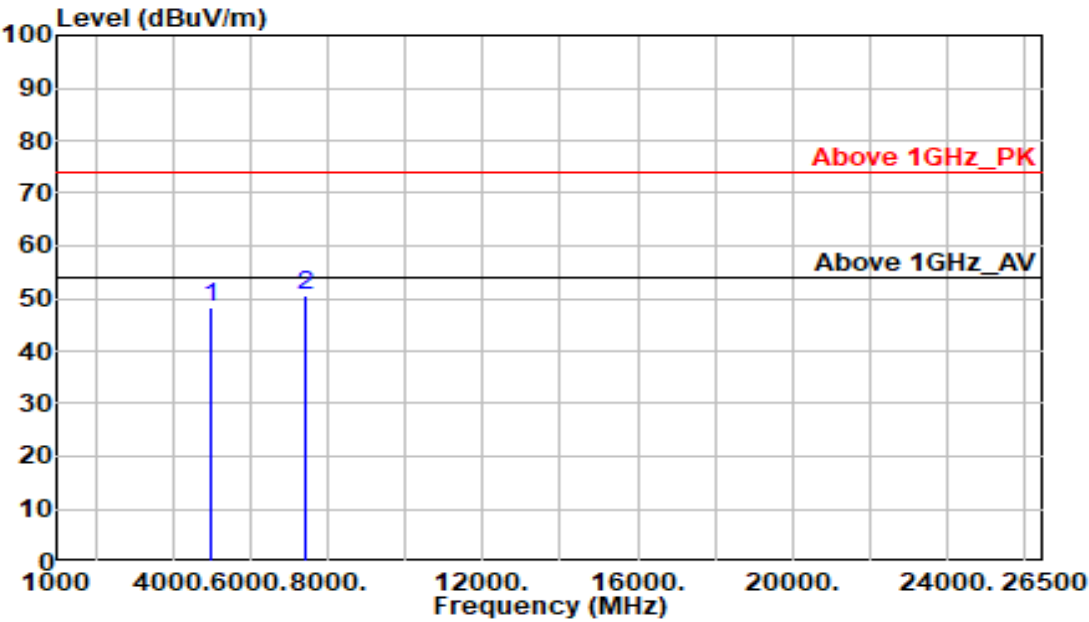
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Horizontal
Mode	:Tx	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
75.590	49.93	-27.15	22.78	40.00	-17.22	Peak	164	348
151.250	59.20	-23.85	35.35	43.50	-8.15	Peak	283	89
236.640	71.41	-26.14	45.27	46.00	-0.73	QP	140	154
311.980	66.10	-22.80	43.30	46.00	-2.70	QP	118	48
860.320	48.79	-11.83	36.96	46.00	-9.04	Peak	316	152
935.980	49.73	-10.73	39.00	46.00	-7.00	Peak	103	331



Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Tx	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
4960.000	52.11	-3.91	48.20	74.00	-25.80	Peak	135	323
7440.000	48.33	2.10	50.43	74.00	-23.57	Peak	129	153



Report No.

Product Name

Operation Band

Channel

Mode

Power Setting

Plane

Note

:6128625069501

:Wireless Remote Control

:SRD 2.4G

:2480 MHz

:Tx

:15

:X Plane

:

Test Date

Model Name

Temp/Humi

Antenna Pol

Test Engineer

Test Site

Voltage

:2025-12-08

:ST-16-02

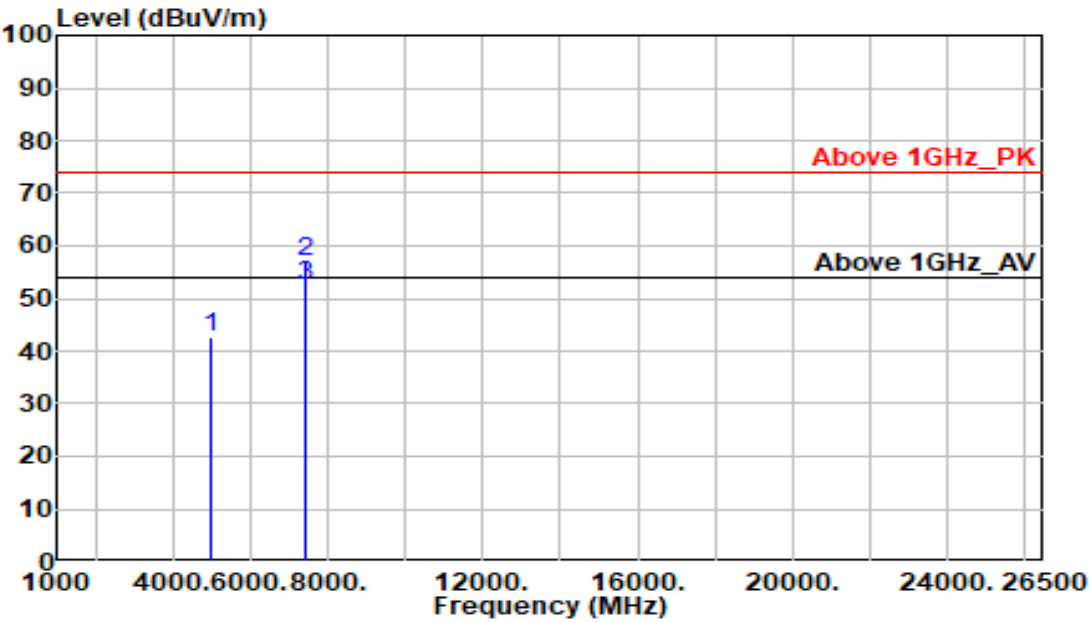
:22.4C/59%

:Horizontal

:Sam Huang

:chamber B

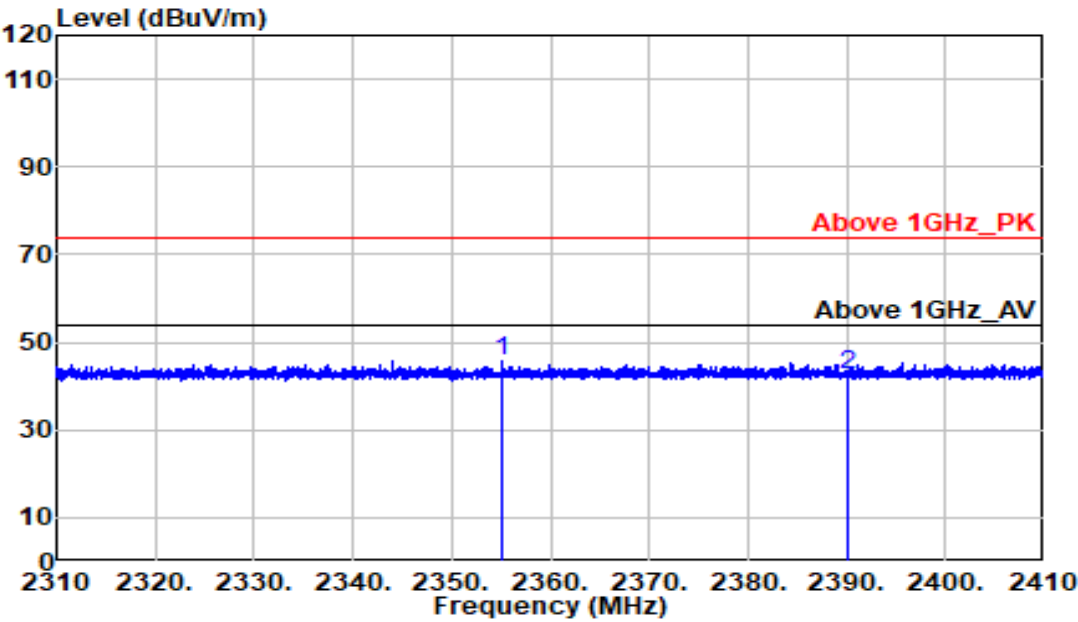
:3.3Vdc from Testkit



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
4960.000	46.71	-3.91	42.80	74.00	-31.20	Peak	214	206
7440.000	54.96	2.10	57.06	74.00	-16.94	Peak	101	252
7440.000	50.26	2.10	52.36	54.00	-1.64	Average	101	252



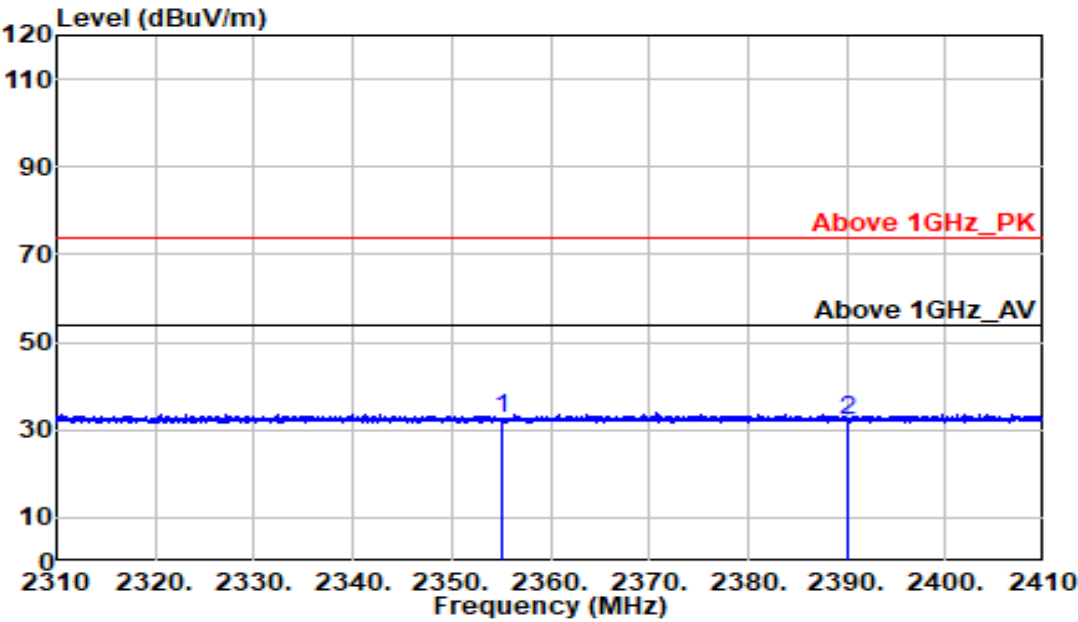
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2402 MHz	Antenna Pol	:Vertical
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
2355.125	57.21	-11.47	45.74	74.00	-28.26	Peak	100	0
2390.000	53.97	-11.39	42.58	74.00	-31.42	Peak	100	0



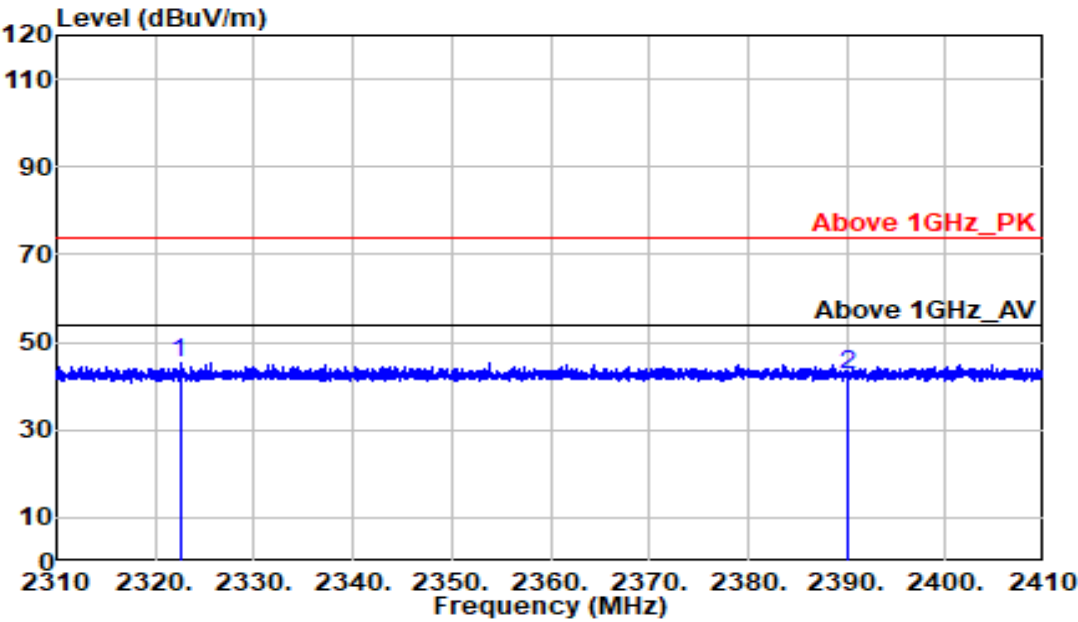
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2402 MHz	Antenna Pol	:Vertical
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV	dBuV/m	dB	PK/QP/AV	CM	DEG
2355.125	43.94	-11.47	32.46	54.00	-21.54	Average	100	0
2390.000	43.72	-11.39	32.33	54.00	-21.67	Average	100	0



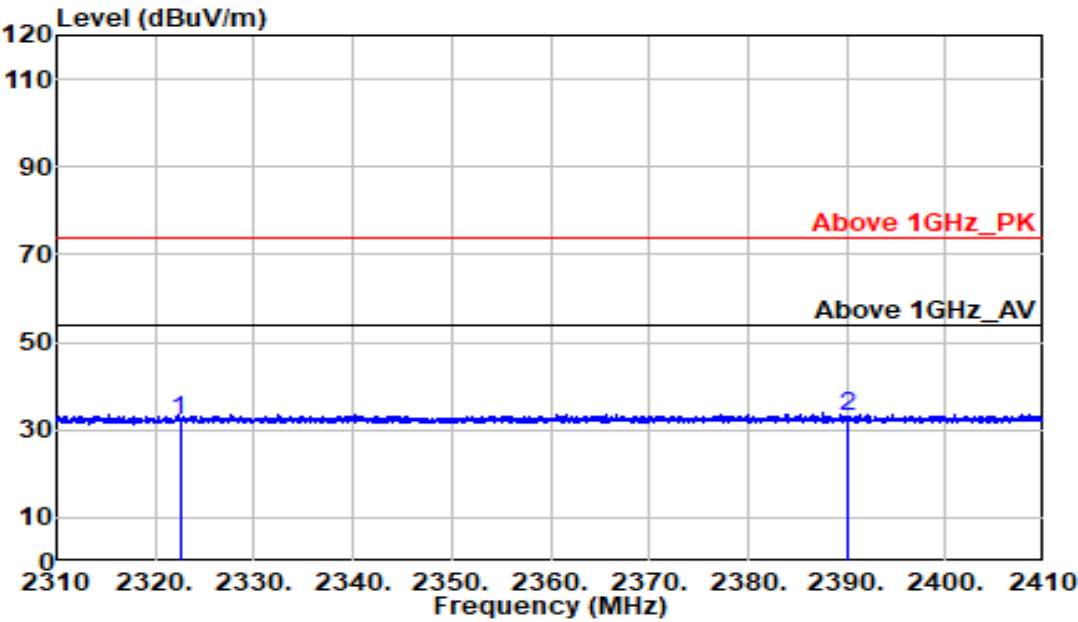
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2402 MHz	Antenna Pol	:Horizontal
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
2322.475	56.74	-11.55	45.19	74.00	-28.81	Peak	100	0
2390.000	54.13	-11.39	42.74	74.00	-31.26	Peak	100	0



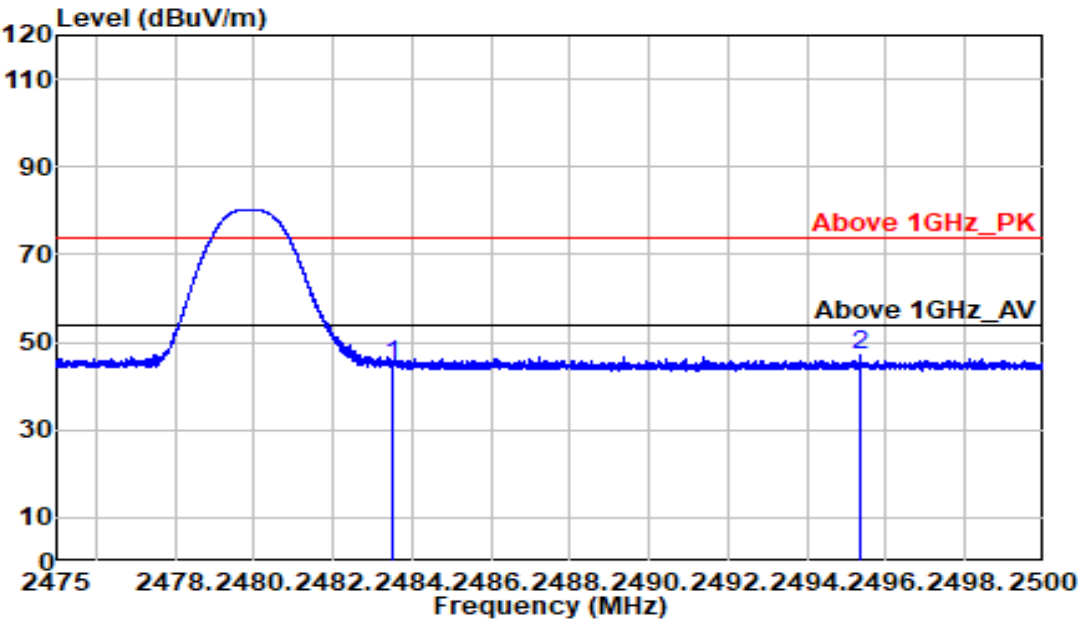
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2402 MHz	Antenna Pol	:Horizontal
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.		LV					
	dBuV	dB/m	dBuV/m	dBuV/m	dB	PK/QP/AV	CM	DEG
2322.475	43.80	-11.55	32.26	54.00	-21.74	Average	100	0
2390.000	44.45	-11.39	33.06	54.00	-20.94	Average	100	0



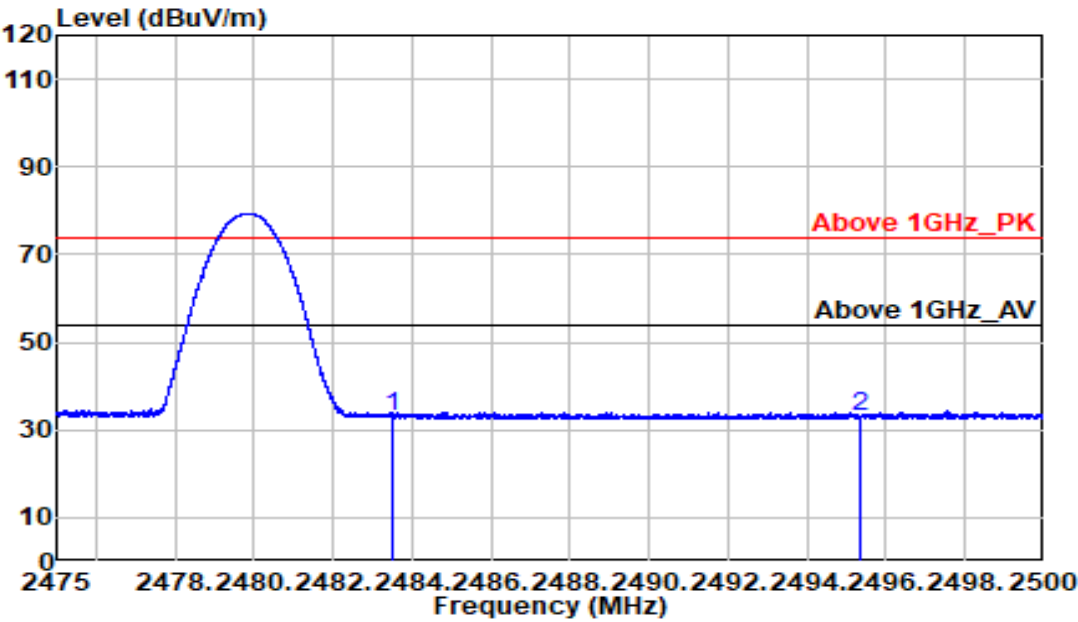
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV	dBuV/m	dB	PK/QP/AV	CM	DEG
2483.500	55.94	-11.17	44.77	74.00	-29.23	Peak	315	114
2495.319	58.03	-11.14	46.89	74.00	-27.11	Peak	315	114



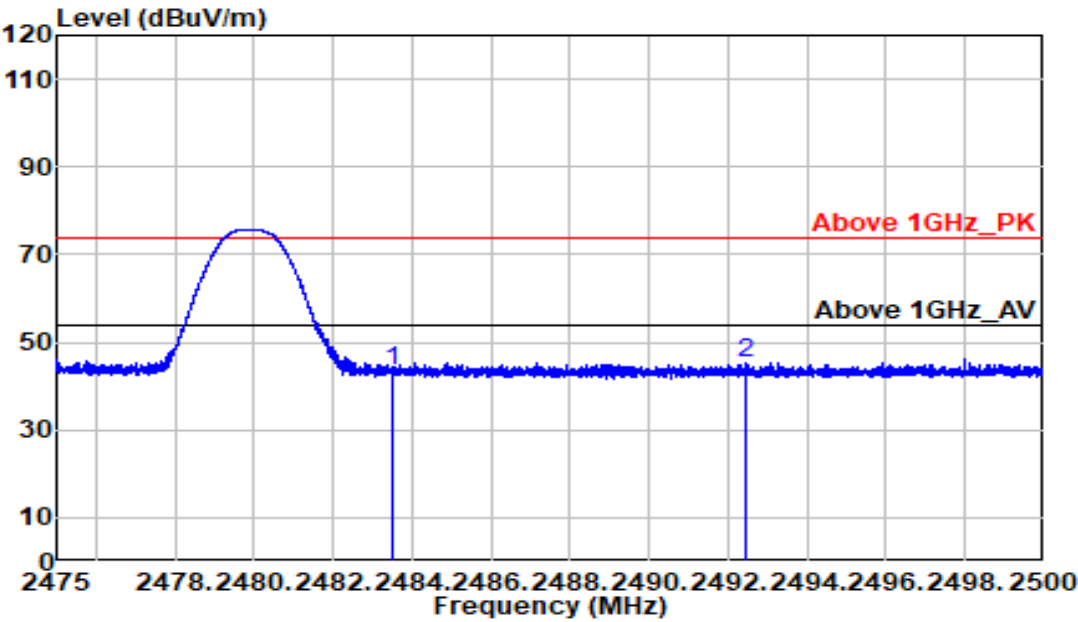
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Vertical
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV		dB	PK/QP/AV	CM	DEG
2483.500	44.23	-11.17	33.06	54.00	-20.94	Average	315	114
2495.319	44.21	-11.14	33.07	54.00	-20.93	Average	315	114



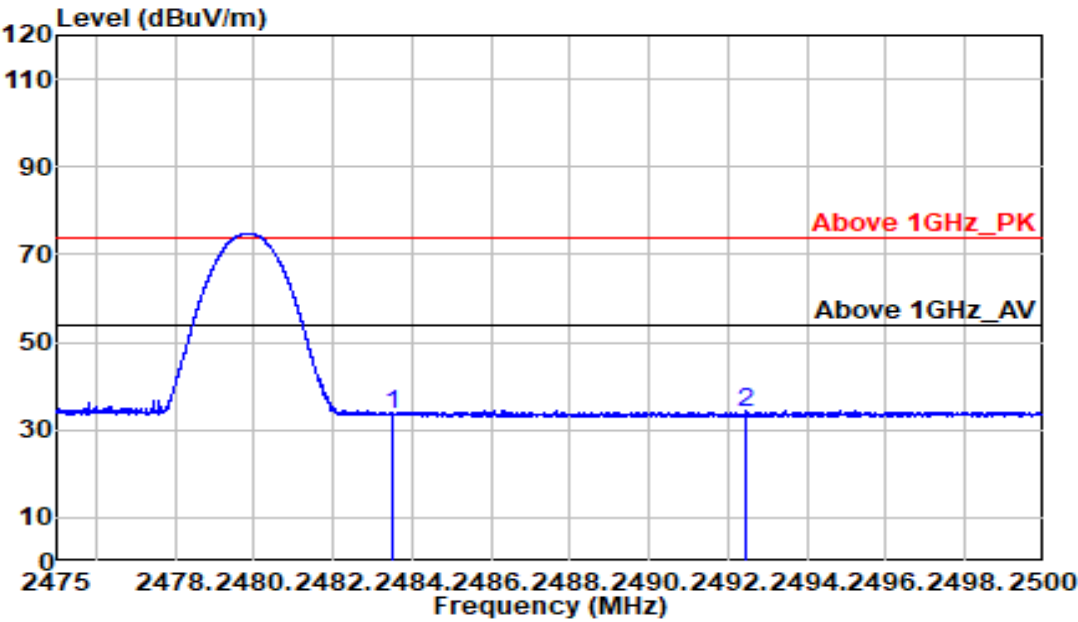
Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Horizontal
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV		dB	PK/QP/AV	CM	DEG
	dBuV		dBuV/m	dBuV/m				
2483.500	54.48	-11.17	43.31	74.00	-30.69	Peak	390	331
2492.444	56.61	-11.15	45.46	74.00	-28.54	Peak	390	331



Report No.	:6128625069501	Test Date	:2025-12-08
Product Name	:Wireless Remote Control	Model Name	:ST-16-02
Operation Band	:SRD 2.4G	Temp/Humi	:22.4C/59%
Channel	:2480 MHz	Antenna Pol	:Horizontal
Mode	:Bandedge	Test Engineer	:Sam Huang
Power Setting	:15	Test Site	:chamber B
Plane	:X Plane	Voltage	:3.3Vdc from Testkit
Note	:		



Freq	Read	Factor	Emission	Limit	Margin	Detector	Apos	TPos
MHz	LV.	dB/m	LV		dB	PK/QP/AV	CM	DEG
	dBuV		dBuV/m	dBuV/m				
2483.500	44.80	-11.17	33.63	54.00	-20.37	Average	390	331
2492.444	45.06	-11.15	33.92	54.00	-20.08	Average	390	331