

TEST REPORT

Applicant: Jingheng Tengwei (Huizhou) Electronic Technology Co., Ltd.

Address: No. 8 Minying 1 Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China

Product Name: Dongle

Model Name: 8K Receiver

Type of Equipment: Certification Ordinance Article 2, Paragraph 1, Item 19

Test method(s): MIC Notice No.88 of 2004, Appendix No.43 (Version: MIC Notice No.409 of 2023)

Report Number: 2502T58542E-RF-07

Report Date: 2025/6/17

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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Note: The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report cannot be reproduced except in full, without prior written approval of the Company. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0. This report may contain data that are not covered by the accreditation scope and shall be marked with ★. Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2502T58542E-RF-07	Original Report	2025/6/17

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

Product Name:	Dongle
Test Model:	8K Receiver
Rated Input Voltage:	DC 5V From USB
Serial Number	32R7-4
EUT Received Date:	2025/5/14
EUT Received Status:	Good

Technical Specification

Operation Frequency Range (MHz):		2402-2480
Nominal RF Output Power (Conducted, mW):		3
Number of Chains	Transmit:	1
	Receive:	1
Maximum Antenna Gain (dBi) [▲] :		-1.66
Modulation Type:		GFSK
Emission Type:		F1D

Objective

The objective of this current document is to demonstrate the EUT, as equipment type in Certification Ordinance Article 2-1-19 of Specific Radio Equipment Specified in Article 38-2-2 Paragraph 1 Item 1of the Radio Low, compliant with Article 49-20 of Radio equipment regulations.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

Measurement Uncertainty

Parameter	Measurement Uncertainty
Frequency error	±0.082×10 ⁻⁶
Occupied bandwidth	±5 %
Unwanted emission strength	±2.47dB
Antenna output power	±0.61dB
Temperature	±1℃
Humidity	±5%
Duty Cycle	0.01
DC and low frequency voltages	±0.4%

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Declarations

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

EUT TEST CONFIGURATION

Description of Test Configuration

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	9	2414
2	2426	10	2436
3	2440	11	2459
4	2463	12	2473
5	2407	13	2419
6	2422	14	2439
7	2445	15	2453
8	2466	16	2480

For lowest, middle, highest channel, 2402, 2440, 2480MHz were selected for test.

The product is powered by standard USB port, thus, 5Vdc was used to test.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

Software " MainWindow[▲]" was used during test, which was provided by manufacturer, the maximum power was configured as below:

Mode	Channel	Frequency (MHz)	Power Level
SRD	Low	2402	6
	Middle	2440	6
	High	2480	6

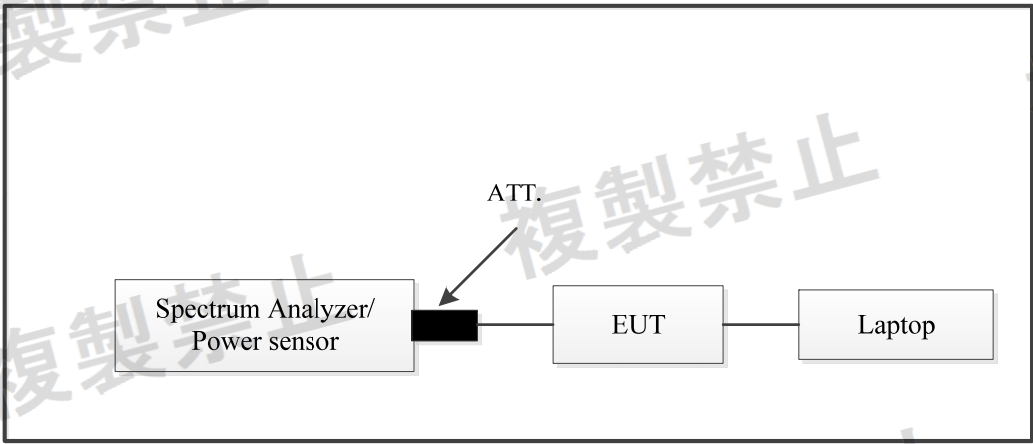
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	E450	PF-OMR8KV

Support Cable List and Details

Cable Description	Shielding Cable	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.1	EUT	Laptop

Configuration of Test Setup



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	Calibration Agency	Calibration Method Note
R&S	Spectrum Analyzer	FSV40	101589	2024/9/5	2025/9/4	BACL Metrology	C
Anritsu	Microwave Peak Power Sensor	MA24418 A	12618	2024/8/27	2025/8/26	BACL Metrology	C
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM504	2024/6/7	2025/6/6	BACL(DG)	D
R&S	Coaxial Attenuator	10dB	F-08-EM512	2024/6/13	2025/6/12	BACL(DG)	D
Agilent	MXG Vector Signal Generator	N5182B	MY5135014 2	2024/8/26	2025/8/25	GRGTEST	C
All-sun	Multimeter	EM305A	8348897	2024/8/16	2025/8/15	BACL Metrology	C

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

- Note:
- A. Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1).
 - B. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992).
 - C. Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - D. Calibration conducted by using measuring instruments and other equipment which shall have been given any of calibration, etc. listed above from a) to c)

Test Environmental Conditions

Temperature:	26.5°C
Relative Humidity:	71%
ATM Pressure:	100.6kPa
Tester:	Cooper Zhou
Test Date:	2025/6/12

SUMMARY OF TEST RESULTS

SN	Description of Test	Result
1	Frequency Error	Compliant
2	Occupied Bandwidth	Compliant
3	Transmitter Spurious Emission and Unwanted Emission Intensity	Compliant
4	Antenna Output Power and Output Power Tolerance	Compliant
5	Receiver Spurious Emission and Unwanted Emission Intensity	Compliant
6	Carrier sense capability (1)	Not Applicable*
7	Carrier sense capability (2)	Not Applicable**
8	Carrier sense capability (3)	Not Applicable***
9	Transmission frequency channel switching function	Not Applicable*
10	Transmission Antenna Gain	Not Applicable****
11	Transmission Radiation Angle Width	Not Applicable****
12	Interference Prevention Function	Compliant
13	Frequency Hopping Dwell Time	Not Applicable*****
14	Construction Protection Confirmation	Compliant

Note:

Not Applicable*: Only required for device with “compensating for the reduction of EIRP with output power” function.

Not Applicable**: Only required for OBW between 26MHz and 40MHz with OFDM modulation type.

Not Applicable***: Only required for outdoor use radio control of model airplanes.

Not Applicable****: This item not applicable when the EIRP less than the limit.

Not Applicable*****: Testing is only required for FHSS system devices.

1 - FREQUENCY ERROR

Limit

50ppm or below

Test Procedure

Set the EUT to the measurement frequency without modulation.

Setting of SA is following as: RB: 1 kHz / VB: 3 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep /

Detect mode: Positive peak / Trace mode: Max hold.

Record the peak spot frequency.

If the EUT can't set at un-modulation mode, measure the 10dBc center frequency.

Test Data

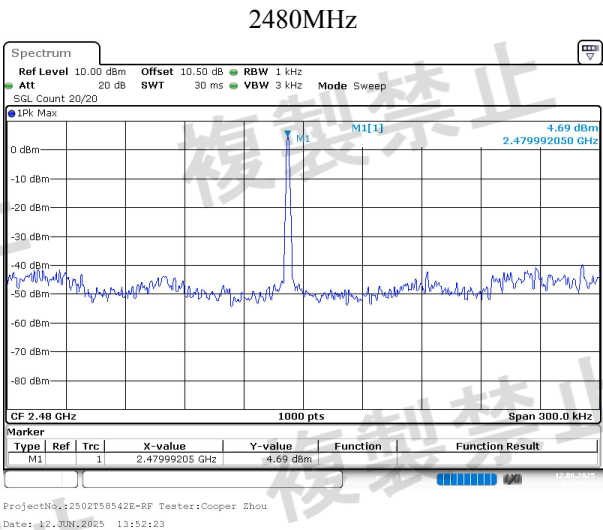
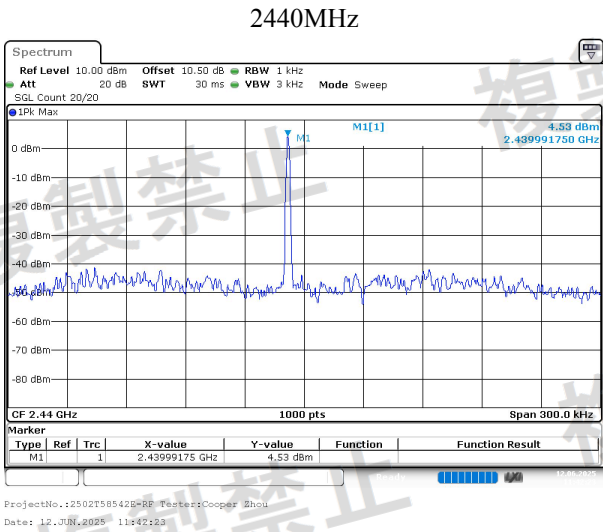
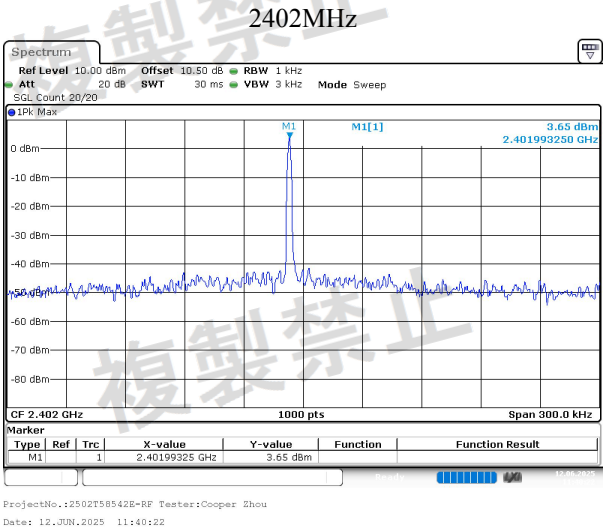
Test Result: Compliant

Test Mode: Transmitting

Fc (MHz)	Measured Frequency (MHz)	Result (ppm)	Limit (ppm)
2402	2401.99325	-2.81	≤ 50
2440	2439.99175	-3.38	≤ 50
2480	2479.99205	-3.21	≤ 50

Note: Tolerance = (Measured Frequency - Fc)/Fc*10⁶

Please refer to the following plots for normal voltage:



2 - OCCUPIED BANDWIDTH

Limit

- Occupied bandwidth: ≤ 26 MHz

Test Procedure

- Setting of SA is following as: RB: 30 kHz/VB: 30 kHz / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: Positive peak / Trace mode: Max hold
- EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.

Test Data

Test Result: Compliant

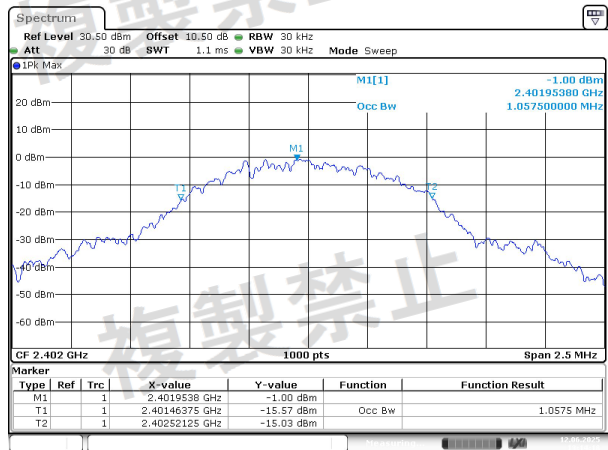
Test Mode: Transmitting

Occupied bandwidth:

Occupied bandwidth (MHz)			
Low Channel	Middle Channel	High Channel	Limit
1.0575	1.0650	1.0400	≤ 26

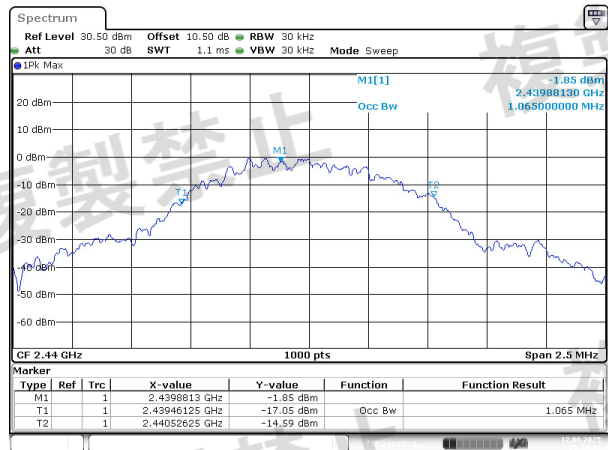
Please refer to the following plots for normal voltage:

2.4G SRD_Low Channel



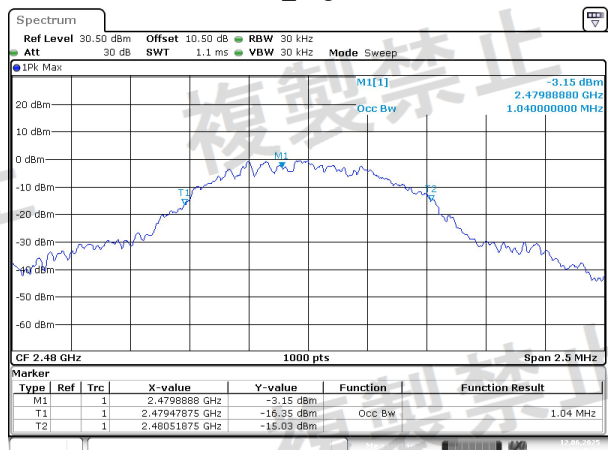
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:14:18

2.4G SRD_Middle Channel



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:15:39

2.4G SRD_High Channel



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:15:30

3 - TRANSMITTER SPURIOUS EMISSION STRENGTH AND UNWANTED EMISSION INTENSITY

Limit

- $30\text{MHz} \leq f < 2387\text{ MHz} : \leq 2.5\mu\text{W/MHz}$
- $2387\text{ MHz} \leq f \leq 2400\text{ MHz} : \leq 25\mu\text{W/MHz};$
- $2483.5\text{ MHz} < f \leq 2496.5\text{ MHz} : \leq 25\mu\text{W/MHz}$
- $2496.5\text{ MHz} < f \leq 12500\text{MHz} : \leq 2.5\mu\text{W/MHz}$

Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be in continuously transmitting mode.

❖ Spectrum Analyzer Conditions

- Setting of SA start 30MHz and stop frequency 1000MHz, RB:100kHz/VB:100kHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $0.25\mu\text{W}/100\text{kHz}$.
- Setting of SA start 1000MHz and stop frequency 2387MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.
- Setting of SA start 2387MHz and stop frequency 2400MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2483.5MHz and stop frequency 2496.5MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $25\mu\text{W}/\text{MHz}$.
- Setting of SA start 2496.5MHz and stop frequency 12500MHz, RB:1MHz/VB:1MHz, Sweep time: Auto. Sweep mode: continuous sweep .Detect mode: Positive peak/Trace mode: max hold. Then to mark peak. reading value + cable loss shall be less than $2.5\mu\text{W}/\text{MHz}$.

If above test over the limit, the below test procedure should be used:

Step 1:

Center the frequency which was want to investigate, search the peak frequency.

- Step 2:
- Center frequency: Searched Frequency
- Span: 0Hz
- RBW:1MHz(Above 1GHz), VBW: Same as RBW.
- Sweep time: Auto (Minimum time to ensure measurement accuracy. *In case of burst wave, one burst shall be included per data point) Data points: 400 points or more. Sweep mode: Single Sweep.
- Detection Mode: Sample

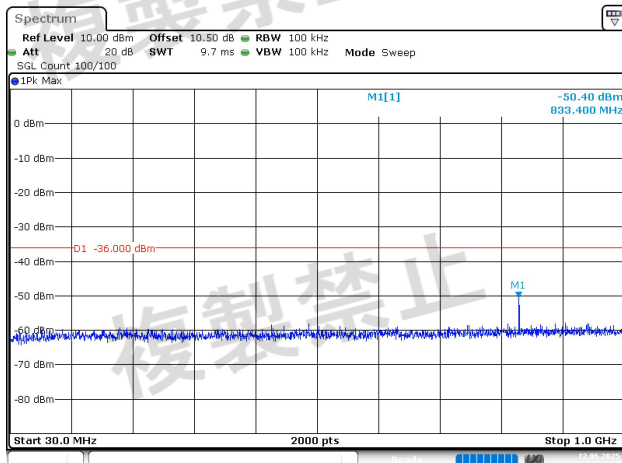
Test Data**Test Result:** Compliant**Test Mode:** Transmitting

Please refer to following table:

Channel	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm)	Result ($\mu\text{W}/\text{RBW}$)	Limit ($\mu\text{W}/\text{RBW}$)
		Start (GHz)	Stop (GHz)				
Low	Band I (100kHz)	0.03	1	0.8334	-50.40	0.009	0.25
	Band II (1MHz)	1	2.387	1.75834	-47.96	0.016	2.5
	Band III (1MHz)	2.387	2.4	2.3999903	-18.34	14.655	25
	Band IV (1MHz)	2.4835	2.4965	2.4868118	-47.55	0.018	25
	Band V (1MHz)	2.4965	12.5	7.2056	-41.85	0.065	2.5
Middle	Band I (100kHz)	0.03	1	0.82467	-55.73	0.003	0.25
	Band II (1MHz)	1	2.387	2.34088	-47.74	0.017	2.5
	Band III (1MHz)	2.387	2.4	2.3989373	-48.05	0.016	25
	Band IV (1MHz)	2.4835	2.4965	2.4946183	-47.37	0.018	25
	Band V (1MHz)	2.4965	12.5	7.3207	-40.62	0.087	2.5
High	Band I (100kHz)	0.03	1	0.83389	-51.13	0.008	0.25
	Band II (1MHz)	1	2.387	2.13353	-48.56	0.014	2.5
	Band III (1MHz)	2.387	2.4	2.3932758	-47.81	0.017	25
	Band IV (1MHz)	2.4835	2.4965	2.4835033	-33.96	0.402	25
	Band V (1MHz)	2.4965	12.5	4.9599	-42.05	0.062	2.5

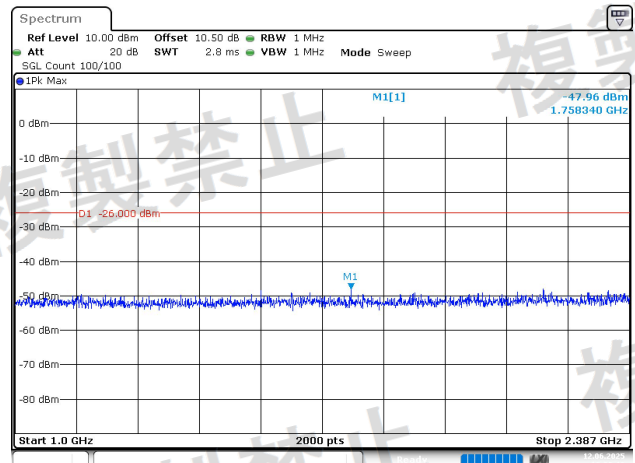
Please refer to the following plots for normal voltage:

2.4G SRD_Low Channel(30MHz~1GHz)



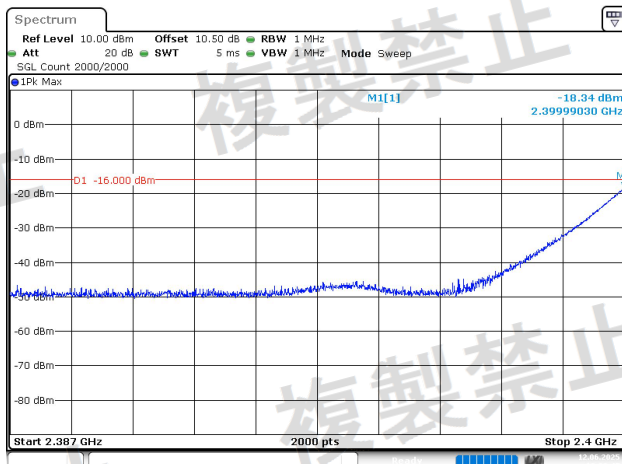
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:19:26

2.4G SRD_Low Channel(1GHz~2.387GHz)



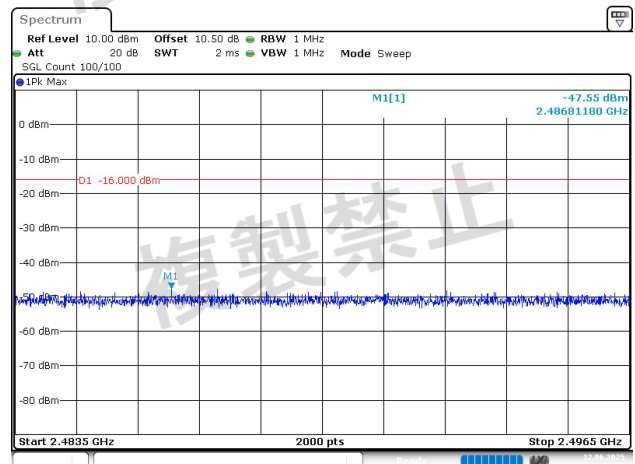
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:20:16

2.4G SRD_Low Channel(2.387GHz~2.4GHz)



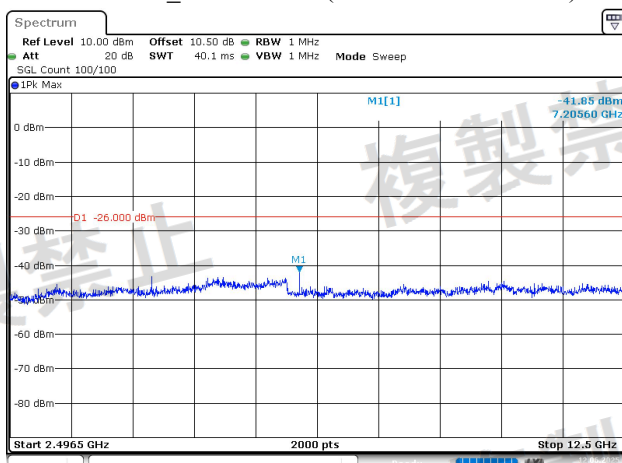
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:22:46

2.4G SRD_Low Channel(2.4835GHz~2.4965GHz)



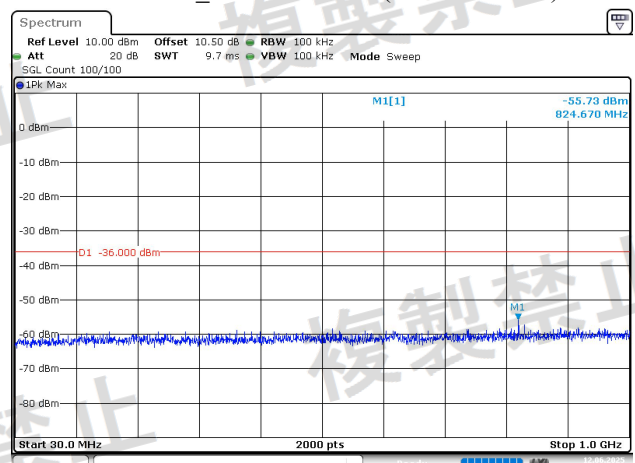
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:26:06

2.4G SRD_Low Channel(2.4965GHz~12.5GHz)



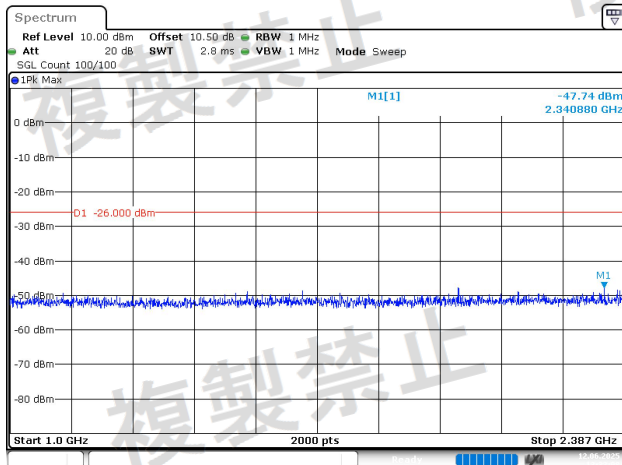
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:27:39

2.4G SRD_Middle Channel(30MHz~1GHz)



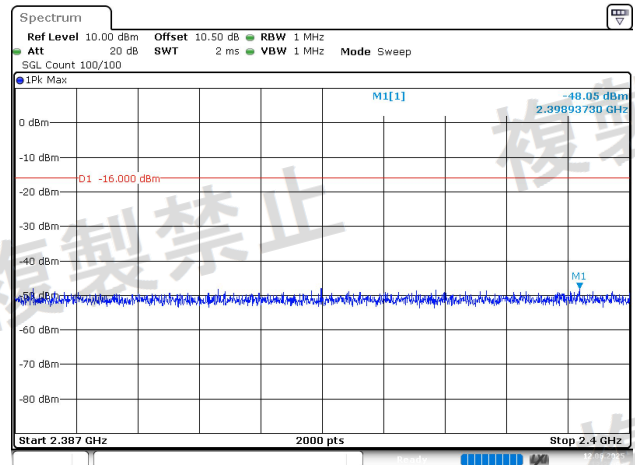
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:31:29

2.4G SRD_Middle Channel(1GHz~2.387GHz)



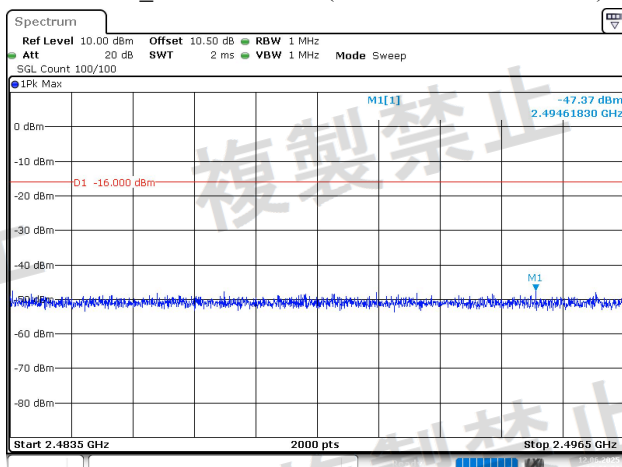
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:32:09

2.4G SRD_Middle Channel(2.387GHz~2.4GHz)



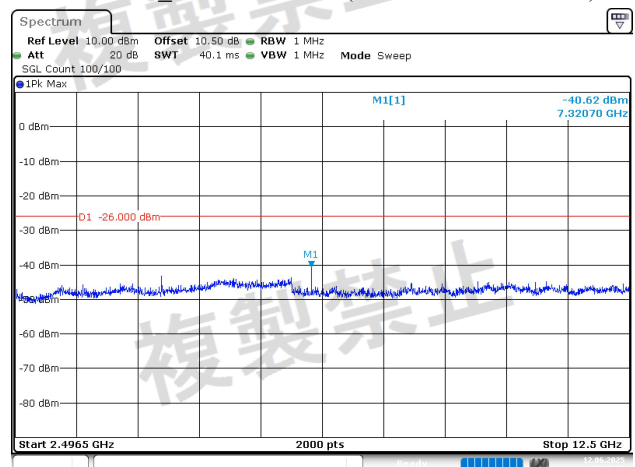
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Date: 12.JUN.2025 13:35:04

2.4G SRD_Middle Channel(2.4835GHz~2.4965GHz)



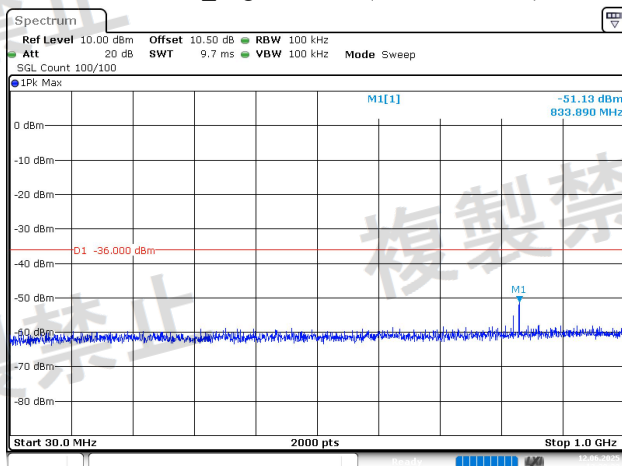
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:36:39

2.4G SRD_Middle Channel(2.4965GHz~12.5GHz)



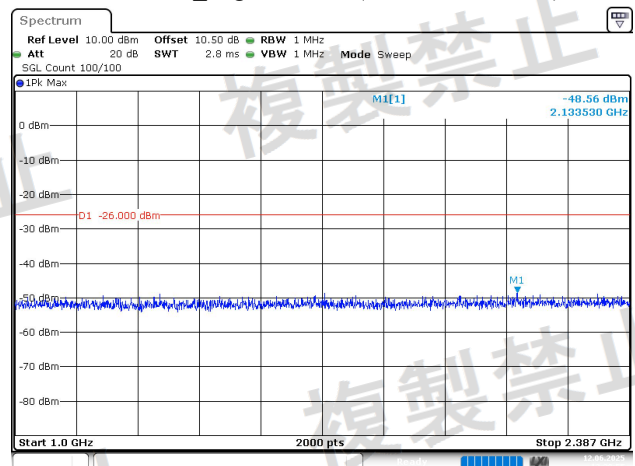
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:37:51

2.4G SRD_High Channel(30MHz~1GHz)



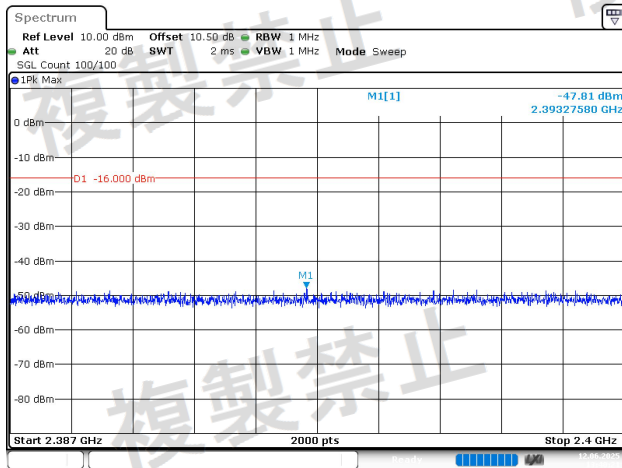
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:39:23

2.4G SRD_High Channel(1GHz~2.387GHz)



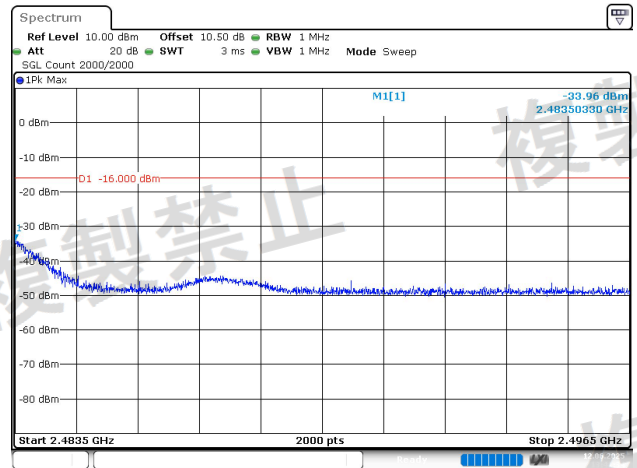
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:39:56

2.4G SRD_High Channel(2.387GHz~2.4GHz)



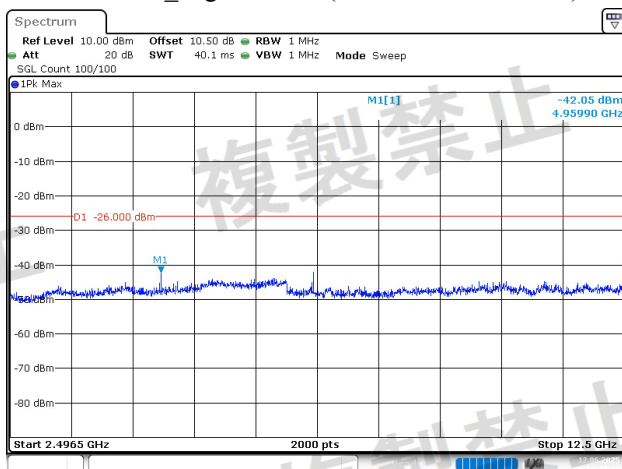
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
 Date: 12.JUN.2025 13:40:22

2.4G SRD_High Channel(2.4835GHz~2.4965GHz)



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
 Date: 12.JUN.2025 13:41:35

2.4G SRD_High Channel(2.4965GHz~12.5GHz)



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
 Date: 12.JUN.2025 13:42:33

4 - ANTENNA OUTPUT POWER, ANTENNA POWER TOLERANCE AND TRANSMISSION ANTENNA GAIN

Limit

Antenna output power:

- $\leq 10\text{mW}$
- The Output Power Tolerance must be within $+20\% \sim -80\%$.
- $\text{EIRP} \leq 12.14\text{dBm}$ (other from 2400-2483.5 MHz)

Test Procedure

- Connect the EUT antenna port to Power meter with RF cable;
- Power meter Detector: Average, Auto Duty factor
- Set the EUT Frequency to measure, test mode continuous transmitting.

Test Data

Test Result: Compliant

Test Mode: Transmitting

Channel	Conducted power (dBm)	Antenna output power (mW)		Antenna output tolerance (%)		EIRP (dBm)	
		Result	Limit	Result	Limit	Result	Limit
Low	4.19	2.624	≤ 10	-12.53	-80~ +20	2.53	≤ 12.14
Middle	4.50	2.818	≤ 10	-6.07		2.84	≤ 12.14
High	4.55	2.851	≤ 10	-4.97		2.89	≤ 12.14

Note:

Antenna output power(mW) = $10^{\{\text{Conducted power(dBm)} / 10\}}$

Antenna output power tolerance(%) = $(\text{Antenna output power} - \text{Declared power}) / \text{Declared power} * 100\%$

Antenna output power(dBm) = $10 * \log_{10}\{\text{Antenna output power(mW)}\}$

EIRP(dBm) = Antenna output power(dBm) + Antenna gain.

5 - RECEIVER SPURIOUS EMISSION AND UNWANTED EMISSION INTENSITY

Limit

- ≤ 4 nW ($30 \text{ MHz} \leq f \leq 1000 \text{ MHz}$)
- ≤ 20 nW ($1 \text{ GHz} \leq f \leq 12.5 \text{ GHz}$)

Test Procedure

❖ Conditions of Application Equipment (EUT)

- The modulation state shall be “continuous receiving mode”.

❖ Spectrum Analyzer Conditions

- Start Frequency: Start Frequency of frequency range to measure (30MHz or 1GHz)
- Stop Frequency: Stop Frequency of frequency range to measure (1GHz or 12.5GHz)
- Span: AUTO (Measurement Range)
- RBW: 100 kHz, VBW: 100 kHz for Frequency < 1 GHz
- RBW: 1MHz, VBW: 1MHz for Frequency > 1 GHz
- Sweep time: AUTO or more
- Sweep mode: Auto Sweep
- Detection: Positive Peak
- Reference Level: Enough level for maximum dynamic range

Test Data

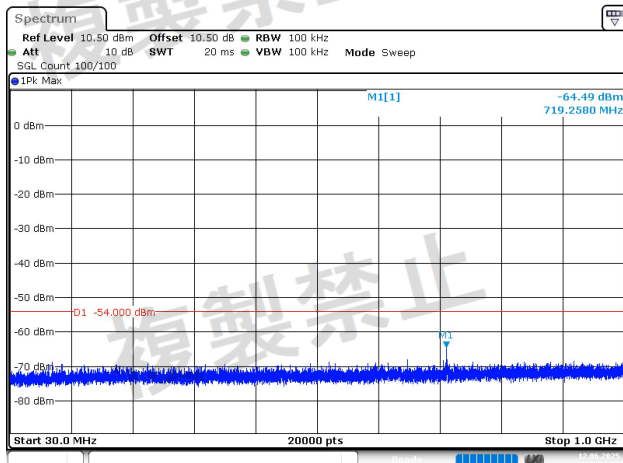
Test Result: Compliant, please see the below tables and plots

Test Mode: Receiving

Channel	Test Band (RBW)	Frequency Range		Max. Emission Located (GHz)	Result (dBm)	Result (nW)	Limit (nW)
		Start (GHz)	Stop (GHz)				
Low	Band I (100kHz)	0.03	1	0.719258	-64.49	0.356	4
	Band II (1MHz)	1	12.5	6.90151	-54.10	3.890	20
Middle	Band I (100kHz)	0.03	1	0.861702	-67.58	0.175	4
	Band II (1MHz)	1	12.5	5.72506	-53.35	4.624	20
High	Band I (100kHz)	0.03	1	0.988724	-68.23	0.150	4
	Band II (1MHz)	1	12.5	6.98374	-52.78	5.272	20

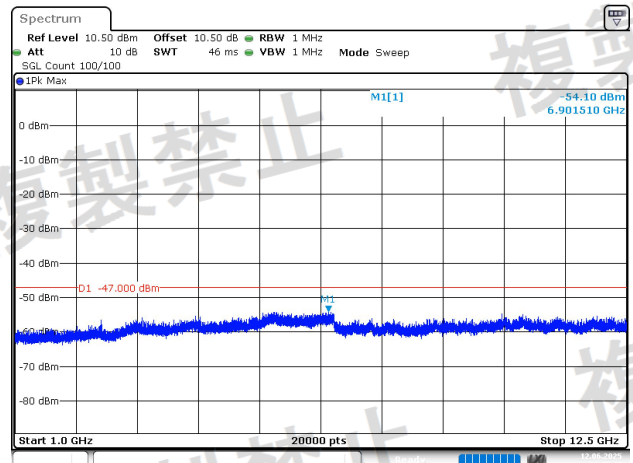
Please refer to the plots below for normal voltage:

2.4G SRD_Low Channel(30MHz~1GHz)



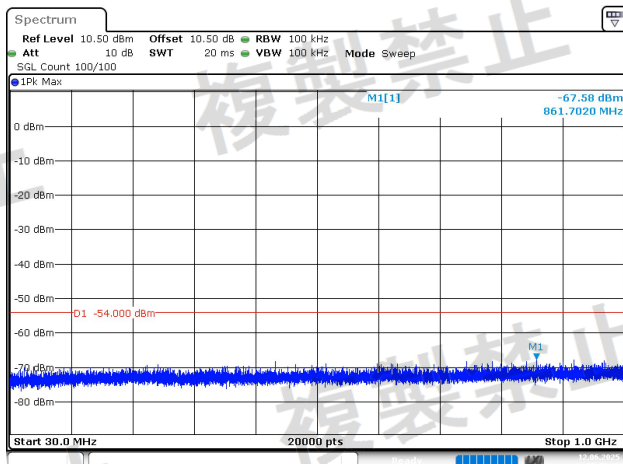
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:44:52

2.4G SRD_Low Channel(1GHz~12.5GHz)



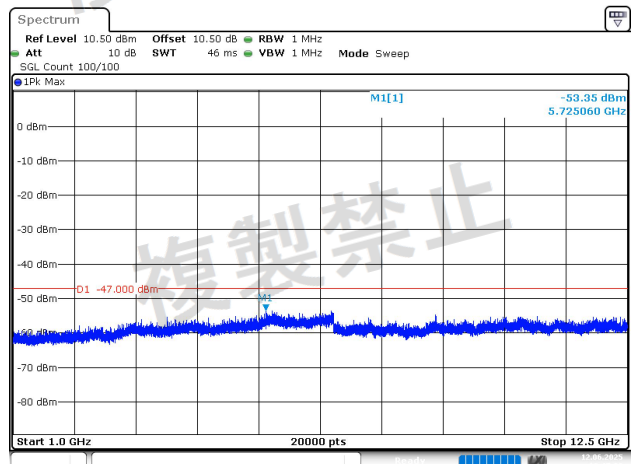
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:45:41

2.4G SRD_Middle Channel(30MHz~1GHz)



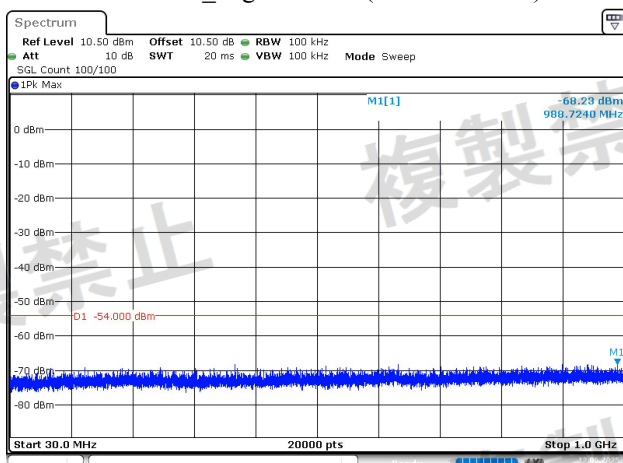
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:46:13

2.4G SRD_Middle Channel(1GHz~12.5GHz)



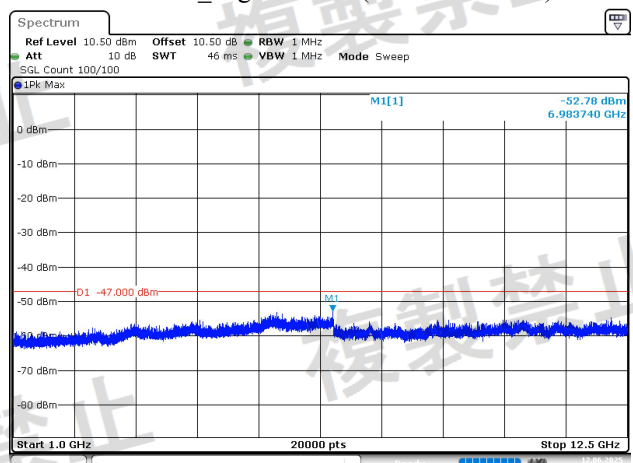
ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:47:08

2.4G SRD_High Channel(30MHz~1GHz)



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:47:33

2.4G SRD_High Channel(1GHz~12.5GHz)



ProjectNo.:2502T58542E-RF Tester:Cooper Zhou
Date: 12.JUN.2025 13:48:50

12 - INTERFERENCE PREVENTION FUNCTION

Requirement

Article 6-2.3 of Regulations for Enforcement of the radio law

A wireless device used mainly in the same premises to automatically transmit or receive identification codes.

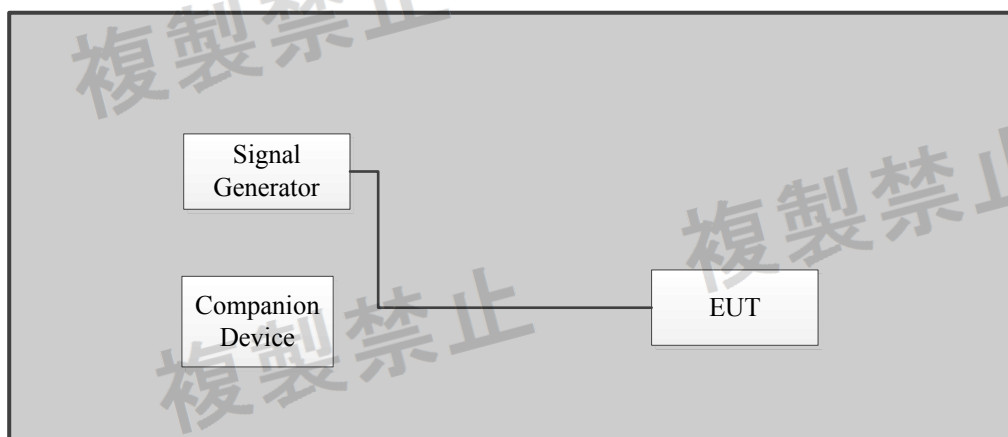
Article 1.8 of MPT Ministerial Notice No. 424 of 1994 (the last revision: Notice No. 374 of Nov. 10, 2023)

48 bits or more. However, for radio of the following frequencies, the requirement is 19 bits or more:

- (1), 5150-5250MHz; 5470-5730MHz; 5925-6425MHz;
- (2), 24.77-25.23GHz;
- (3), 57-66GHz.

Test Procedure

❖ Measurement System Diagram



Companion Device:

Manufacturer	Description	Model	Serial Number
Jingheng Tengwei	Mouse	M3	Unknown

- ❖ 1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
- ❖ 2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the signals other than predetermined ID codes from the counterpart. d. Check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

Test Data

Item	Result	Requirement	Verdict
Methodology to transmit ID Code:	Automatically	Automatically	Compliant
Methodology to receive ID Code:	Automatically	Automatically	Compliant
Identification Codes (ID Codes) of EUT:	80:30:49:14:83:EE	/	/
Bits of ID Codes:	48 bits	48 bits or more	Compliant

Test Result: Compliant

14 - CONSTRUCTION PROTECTION CONFIRMATION

Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

Confirmation Method

Compliant, the RF part(include antenna) was covered product case, locked tightly, it can't be opened easily. Please refer the EUT photo.

EXHIBIT A – EUT PHOTOGRAPHS

Please refer to the attachment 2502T58542E-RF-EXP EUT External photos and 2502T58542E-RF-INP EUT Internal photos.

EXHIBIT B – TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2502T58542E-RF-TSP Test Setup Photos.

*****END OF REPORT*****