

Dynascan Technology Corp.

TEST REPORT

Model:

68301,68303

REPORT NUMBER

251200031THC-001

ISSUE DATE

May 06, 2026

PAGES

58

DOCUMENT CONTROL NUMBER

GFT-OP-10h (28-Nov-2018)

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Radio Spectrum TEST REPORT

Applicant:	Dynascan Technology Corp. 6F., No. 88, Wenmao Rd., Guishan Dist., Taoyuan City 333001, Taiwan
Product:	EPAPER DISPLAY
Model No.:	68301,68303
Test Standard:	ARIB STD-T66 version 3.8 (No. 88 of MIC, 2004, Annex 43)
Test By:	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist, Hsinchu City 300075, Taiwan

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Revision History

Report No.	Issue Date	Revision Summary
251200031THC-001	May 06, 2026	Original report

Table of Contents

1. General Information	5
1.1 Identification of the EUT	5
1.2 Additional information about the EUT	5
1.3 Adapter information.....	5
1.4 Rated power declaration	5
1.5 Antenna description	6
1.6 Assemble	6
1.7 Voltage fluctuation:	7
2. Test Summary	8
3. Test Specifications	9
3.1 Standards.....	9
3.2 Mode of operation during the test	9
3.3 Peripherals equipment	9
3.4 Test Set-up	9
4. Frequency Tolerance	10
4.1 Limit of Frequency Tolerance	10
4.1 Test method.....	10
4.3 Test Result for Frequency Tolerance.....	11
5. Antenna Power	14
5.1 Limit of Antenna Power.....	14
5.2 Test method.....	14
5.3 Test Result for Antenna Power	15
6. EIRP.....	16
6.1 Limit of Antenna Power.....	16
6.2 Test method.....	16
6.3 Test Result for Antenna Power.....	17
7. Spurious Emission Intensity.....	18
7.1 Limit of Spurious Emission Intensity & Test Procedures	18
7.2 Test method.....	18
7.3 Test Result for Spurious Emission Intensity.....	19
8. Secondary Radiated Emissions	31
8.1 Limit of Secondary Radiated Emissions & Test Procedures.....	31
8.2 Test method.....	31
8.3 Test Result for Secondary Radiated Emissions	32
9. Occupied Bandwidth	42
9.1 Limit of Occupied Bandwidth	42
9.2 Test method.....	42
9.3 Test Result for Occupied Bandwidth	43

10. Spread Spectrum Bandwidth.....	53
10.1 Limit Spread Spectrum Bandwidth.....	53
10.2 Test Result for Spreading Factor.....	53
11. Spreading Factor.....	56
11.1 Limit Spreading Factor.....	56
11.2 Test Result for Spreading Factor.....	56
12. Interference Prevention Function	57
12.1 Test method.....	57
12.2 Test Result for Interference Prevention Function	57
Appendix A: Test Equipment	58

1. General Information

1.1 Identification of the EUT

Product:	EPAPER DISPLAY
Model No.:	68301
Operating Frequency:	2412 MHz ~ 2472 MHz
Channel Number:	13 channels
Frequency of Each Channel:	2412+ 5k, k=0 ~ 12
Rating:	DC 5V from USB-C Charger
Sample receiving date:	2025/12/02
Sample condition:	Workable
Test Date(s):	2026/03/13 ~ 2026/03/27

1.2 Additional information about the EUT

The customer confirmed the models listed as below were series model to model 68301 (EUT), the difference between main model and series model are listed as below.

Model Number	Protective Glass
68301	V
68303	X

1.3 Adapter information

The EUT will be supplied with a power supply from below list:

No.	Model no.	Specification
USB-C Charger	A1C030AC	I/P: 100-240V~ 50/60Hz, 1.2A O/P: 5.0V=3.0A 15.0W/ 9.0V=3.0A 27.0W/ 12.0V=2.5A 30.0W/ 15.0V=2.0A 30.0W/ 20.0V=1.5A 30.0W

1.4 Rated power declaration

Technology	Rated Conducted Power (mW/MHz)
Wi-Fi 2.4GHz	9.25

1.5 Antenna description

Antenna 1

Antenna Gain: 1.82dBi
Antenna Type: FPC Antenna
Connector Type: I-Pex

Antenna 2

Antenna Gain: 1.82dBi
Antenna Type: FPC Antenna
Connector Type: I-Pex

Remark: Antenna information provided by the client.

1.6 Assemble

The radio facility should be enclosed in one chassis which is not easily opened. However, an exception applies where the HPHPT prescribes otherwise

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other: Applicant hereby declares that the structure of the high frequency and modulation part of the radio, except antenna system in the applying device is designed not to be tampered with or modify by the end user.
☐	other

1.7 Voltage fluctuation:

It has been confirmed that the fluctuation of the input voltage to the circuit of the RF circuit when the input voltage from an external power supply to the EUT fluctuates by $\pm 10\%$ is within $\pm 1\%$, measurement could be performed only for the rated voltage.

EUT input Voltage	RF circuit Voltage	Deviation
100Vac	DC 3.27V	
AC 110V(+10%)	DC 3.27V	0%
AC 90V(-10%)	DC 3.27V	0%

2. Test Summary

Test items	Mode	Data Rate (Mbps)	Channel	Antenna	Result
Frequency Tolerance	Single Tone	N/A	1 / 3 / 7 / 11 / 13	Chain0/1	Pass
Antenna Power	802.11b	1	1 / 7 / 13	Chain0+1	Pass
	802.11g	6	1 / 7 / 13	Chain0+1	
	802.11n(HT20)	MCS0	1 / 7 / 13	Chain0+1	
	802.11ax(HE20)	MCS0	1 / 7 / 13	Chain0+1	
Spurious Emission Intensity	802.11b	1	1 / 7 / 13	Chain0/1	Pass
	802.11g	6	1 / 7 / 13	Chain0/1	
	802.11n(HT20)	MCS0	1 / 7 / 13	Chain0+1	
	802.11ax(HE20)	MCS0	1 / 7 / 13	Chain0+1	
Secondary Radiated Emissions	802.11b	1	1 / 7 / 13	Chain0/1	Pass
	802.11g	6	1 / 7 / 13	Chain0/1	
	802.11n(HT20)	MCS0	1 / 7 / 13	Chain0+1	
	802.11ax(HE20)	MCS0	1 / 7 / 13	Chain0+1	
Occupied Bandwidth	802.11b	1	1 / 7 / 13	Chain0/1	Pass
	802.11g	6	1 / 7 / 13	Chain0/1	
	802.11n(HT20)	MCS0	1 / 7 / 13	Chain0+1	
	802.11ax(HE20)	MCS0	1 / 7 / 13	Chain0+1	
Spread Spectrum Bandwidth	802.11b	1	1 / 7 / 13	Chain0/1	Pass
	802.11g	6	1 / 7 / 13	Chain0/1	
	802.11n(HT20)	MCS0	1 / 7 / 13	Chain0+1	
	802.11ax(HE20)	MCS0	1 / 7 / 13	Chain0+1	
Spreading Factor	802.11b	1	1 / 7 / 13	Chain0/1	Pass
Interference Prevention	Normal link			Chain0+1	Pass

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

3. Test Specifications

3.1 Standards

Radio equipment stipulated in the certification ordinance Article 2, Item (19) Appendix 43, B-1 (2) and Item 19 of Article 2 Paragraph 1.

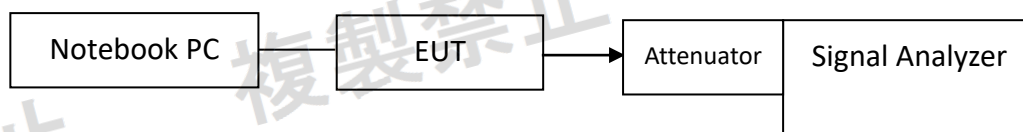
3.2 Mode of operation during the test

- (1) Connected to Notebook PC via USB Cable , executing 「 CMD 」 and enter Commands to select different frequency and modulation.
- (2) With individual verifying, the maximum output power was found out 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, MCS 0 for 802.11n(HT20) mode, MCS 0 for 802.11ax(HE20) mode, the final tests were executed under these conditions recorded in this report individually.

3.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Description of Data Cable
Notebook PC	HP	HP ProBook 440 G3	5CD8021S9H	Type-C Cable 1.5m

3.4 Test Set-up



4. Frequency Tolerance

4.1 Limit of Frequency Tolerance

Frequency Tolerance shall be $\pm 50\text{ppm}$.

4.1 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

1. Set spectrum analyzer as below

Frequency=Test Frequency

Span=1MHz

RBW=10kHz

VBW=RBW

Detector=Peak

Sweep time=Auto

Trace=Maxhold

2. Use peak search function to find the max value and record it.

4.3 Test Result for Frequency Tolerance

Date	2026/03/16
Temperature (°C)	24
Humidity (%)	66

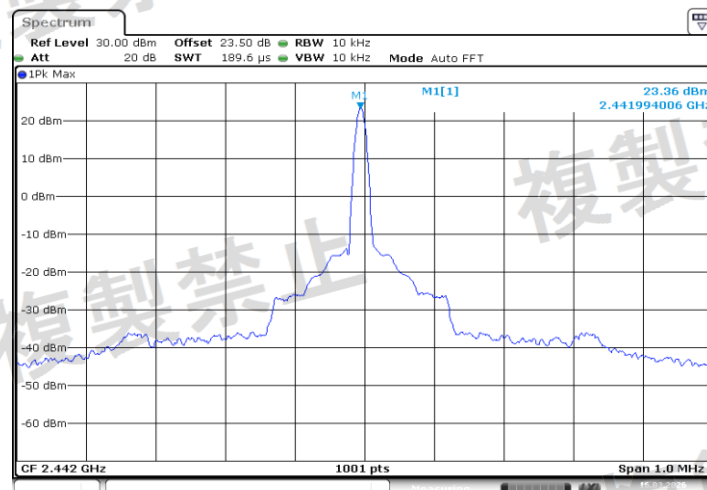
Channel	Frequency (MHz)	Test Voltage		
		100Vac/ 50Hz		
		Chain 0		Limit (PPM)
		Carrier Frequency (MHz)	Frequency Deviation (PPM)	
1	2412	2411.99	-3.31	±50
7	2442	2441.99	-2.45	±50
13	2472	2471.99	-2.83	±50
Channel	Frequency (MHz)	Test Voltage		
		100Vac/ 50Hz		
		Chain 0		Limit (PPM)
		Carrier Frequency (MHz)	Frequency Deviation (PPM)	
1	2412	2411.99	-2.49	±50
7	2442	2441.99	-3.68	±50
13	2472	2471.99	-4.85	±50

Chain0 : Frequency Tolerance @ 2412MHz



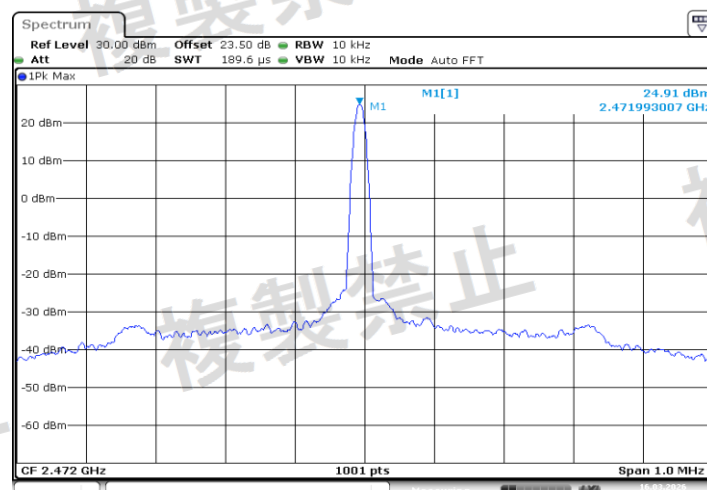
Date: 16 MAR 2026 09:59:32

Chain0 : Frequency Tolerance @ 2442MHz



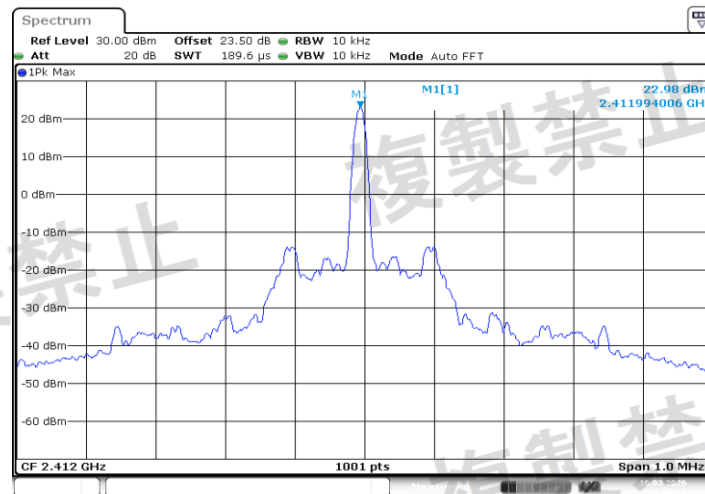
Date: 16 MAR 2026 10:02:27

Chain0 : Frequency Tolerance @ 2472MHz



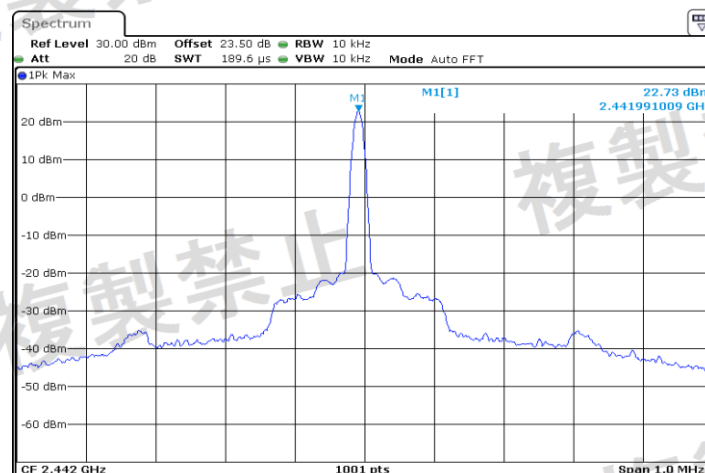
Date: 16 MAR 2026 10:03:05

Chain1 : Frequency Tolerance @ 2412MHz



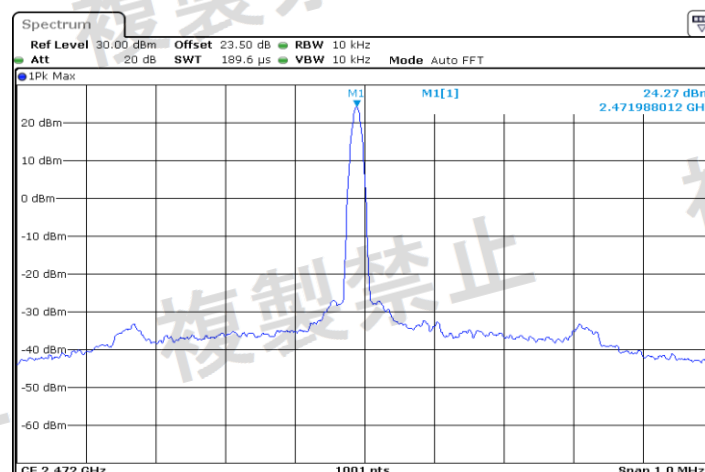
Date: 16 MAR 2026 10:05:58

Chain1 : Frequency Tolerance @ 2442MHz



Date: 16 MAR 2026 10:05:20

Chain1 : Frequency Tolerance @ 2472MHz



Date: 16 MAR 2026 10:04:37

5. Antenna Power

5.1 Limit of Antenna Power

Mode	Limit	Tolerance
DSSS	10mW/MHz	+20% , -80%
OFDM(20MHz)	10mW/MHz	+20% , -80%
OFDM(40MHz)	5mW/MHz	+20% , -80%
FHSS	3mW/MHz	+20% , -80%
Others	10mW	+20% , -80%

5.2 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

Using the gate function of power meter to measure burst power.

TEST REPORT

5.3 Test Result for Antenna Power

Date	2026/03/13
Temperature (°C)	23
Humidity (%)	67

Test Voltage								
100Vac/50Hz								
Modulation	Channel	Frequency (MHz)	Chain 0	Chain 1	Chain 0+1	Limit (mW/MHz)	Chain 0+1	Limit (%)
			Antenna Power (mW/MHz)	Antenna Power (mW/MHz)	Antenna Power (mW/MHz)		Tolerance (%)	
802.11b	1	2412	3.98	3.89	7.87	10	-14.93	+20% ~ -80%
	7	2442	4.68	4.17	8.85	10	-4.40	+20% ~ -80%
	13	2472	4.79	4.47	9.25	10	0.00	+20% ~ -80%
802.11g	1	2412	2.14	1.91	4.04	10	-56.30	+20% ~ -80%
	7	2442	2.19	1.91	4.09	10	-55.76	+20% ~ -80%
	13	2472	2.29	2.09	4.38	10	-52.66	+20% ~ -80%
802.11n (HT20)	1	2412	1.62	1.42	3.04	10	-67.17	+20% ~ -80%
	7	2442	1.55	1.00	2.55	10	-72.45	+20% ~ -80%
	13	2472	1.32	1.26	2.58	10	-72.15	+20% ~ -80%
802.11ax (HE20)	1	2412	1.95	1.51	3.46	10	-62.57	+20% ~ -80%
	7	2442	1.86	1.55	3.41	10	-63.14	+20% ~ -80%
	13	2472	1.58	1.35	2.93	10	-68.29	+20% ~ -80%

6. EIRP

6.1 Limit of Antenna Power

Mode	Limit	Tolerance
DSSS	12.14~22.14dBm/MHz	+20% , -80%
OFDM(20MHz)	12.14~22.14dBm/MHz	+20% , -80%
OFDM(40MHz)	9.13~19.13dBm/MHz	+20% , -80%
FHSS	6.91~16.91dBm/MHz	+20% , -80%
Others	12.14~22.14dBm/MHz	+20% , -80%

6.2 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

Using the gate function of power meter to measure burst power.

6.3 Test Result for Antenna Power

Date	2026/03/13
Temperature (°C)	23
Humidity (%)	67

Test Voltage								
100Vac/50Hz								
Modulation	Channel	Frequency (MHz)	Antenna Power (mW/MHz)	Antenna Power (mW/MHz)	Antenna 0 gain (dBi)	Antenna 1 gain (dBi)	E.I.R.P Chain 0+1 (dBm/MHz)	Limit (dBm/MHz)
			Chain 0	Chain 1				
802.11b	1	2412	3.98	3.89	1.82	1.82	10.78	12.14
	7	2442	4.68	4.17	1.82	1.82	11.29	12.14
	13	2472	4.79	4.47	1.82	1.82	11.48	12.14
802.11g	1	2412	2.14	1.91	1.82	1.82	7.89	12.14
	7	2442	2.19	1.91	1.82	1.82	7.94	12.14
	13	2472	2.29	2.09	1.82	1.82	8.23	12.14
802.11n (HT20)	1	2412	1.62	1.42	1.82	1.82	6.65	12.14
	7	2442	1.55	1.00	1.82	1.82	5.88	12.14
	13	2472	1.32	1.26	1.82	1.82	5.93	12.14
802.11ax (HE20)	1	2412	1.95	1.51	1.82	1.82	7.22	12.14
	7	2442	1.86	1.55	1.82	1.82	7.15	12.14
	13	2472	1.58	1.35	1.82	1.82	6.49	12.14

7. Spurious Emission Intensity**7.1 Limit of Spurious Emission Intensity & Test Procedures**

Frequency Range	Limit
$\leq 2387\text{MHz}$	2.5uW/MHz
2387MHz-2400MHz	25uW/MHz
2483.5MHz-2496.5MHz	25uW/MHz
$\geq 2496.5\text{MHz}$	2.5uW/MHz

7.2 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

Set spectrum analyzer as below

Frequency=30MHz-2400MHz,2483.5MHz-13GHz

RBW=1MHz

VBW=RBW

Sweep time=Auto

Detector=Peak

Trace=Maxhold

7.3 Test Result for Spurious Emission Intensity

Date	2026/03/13
Temperature (°C)	21
Humidity (%)	68

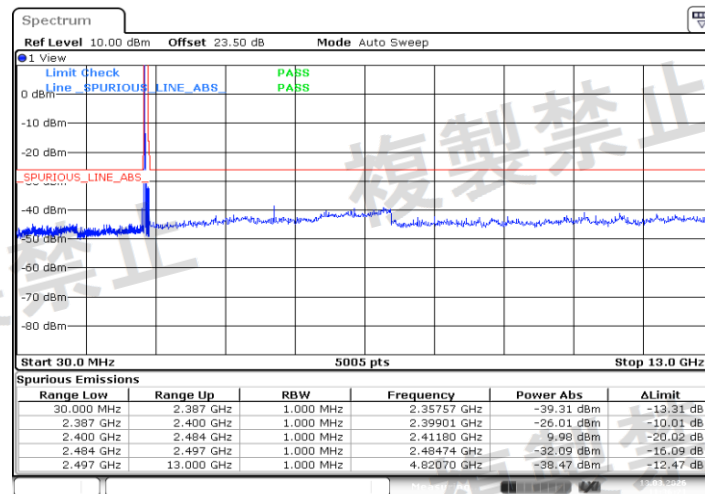
Test Voltage							
100Vac/50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 0			Limit (uW)
				Frequency (MHz)	Measure Level (dBm)	Measure Level (uW)	
802.11b	1	2412	30-2387 MHz	2357.57	-39.31	0.12	2.5
			2387-2400 MHz	2399.01	-26.01	2.51	25
			2483.5-2496.5 MHz	2484.74	-32.09	0.62	25
			2496.5-13000 MHz	4820.70	-38.47	0.14	2.5
	7	2442	30-2387 MHz	2376.40	-40.89	0.08	2.5
			2387-2400 MHz	2396.69	-30.81	0.83	25
			2483.5-2496.5 MHz	2488.30	-26.83	2.07	25
			2496.5-13000 MHz	4883.66	-37.73	0.17	2.5
	13	2472	30-2387 MHz	1027.19	-44.48	0.04	2.5
			2387-2400 MHz	2395.51	-37.67	0.17	25
			2483.5-2496.5 MHz	2486.60	-24.96	3.19	25
			2496.5-13000 MHz	2512.24	-26.96	2.01	2.5
802.11g	1	2412	30-2387 MHz	2381.11	-38.76	0.13	2.5
			2387-2400 MHz	2397.66	-19.52	11.17	25
			2483.5-2496.5 MHz	2492.08	-41.29	0.07	25
			2496.5-13000 MHz	6908.81	-39.46	0.11	2.5
	7	2442	30-2387 MHz	989.52	-44.58	0.03	2.5
			2387-2400 MHz	2397.99	-43.24	0.05	25
			2483.5-2496.5 MHz	2487.66	-40.48	0.09	25
			2496.5-13000 MHz	6992.75	-38.92	0.13	2.5
	13	2472	30-2387 MHz	2039.69	-44.15	0.04	2.5
			2387-2400 MHz	2395.67	-44.45	0.04	25
			2483.5-2496.5 MHz	2483.52	-17.20	19.05	25
			2496.5-13000 MHz	2501.75	-34.23	0.38	2.5

Test Voltage							
100Vac/50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 0			Limit (uW)
				Frequency (MHz)	Measure Level (dBm)	Measure Level (uW)	
802.11n(HT20)	1	2412	30-2387 MHz	2385.82	-41.92	0.06	2.5
			2387-2400 MHz	2399.80	-24.78	3.33	25
			2483.5-2496.5 MHz	2489.77	-42.77	0.05	25
			2496.5-13000 MHz	6929.80	-39.64	0.11	2.5
	7	2442	30-2387 MHz	631.61	-44.14	0.04	2.5
			2387-2400 MHz	2389.46	-42.80	0.05	25
			2483.5-2496.5 MHz	2485.30	-42.25	0.06	25
			2496.5-13000 MHz	6971.77	-39.16	0.12	2.5
	13	2472	30-2387 MHz	1093.12	-44.77	0.03	2.5
			2387-2400 MHz	2388.54	-44.61	0.03	25
			2483.5-2496.5 MHz	2483.57	-18.63	13.71	25
			2496.5-13000 MHz	6835.36	-39.49	0.11	2.5
802.11ax (HE20)	1	2412	30-2387 MHz	2385.82	-40.75	0.08	2.5
			2387-2400 MHz	2399.97	-23.48	4.49	25
			2483.5-2496.5 MHz	2487.92	-42.29	0.06	25
			2496.5-13000 MHz	6866.84	-38.82	0.13	2.5
	7	2442	30-2387 MHz	1060.16	-44.87	0.03	2.5
			2387-2400 MHz	2393.20	-43.67	0.04	25
			2483.5-2496.5 MHz	2492.40	-42.11	0.06	25
			2496.5-13000 MHz	6835.36	-39.52	0.11	2.5
	13	2472	30-2387 MHz	1090.77	-44.26	0.04	2.5
			2387-2400 MHz	2393.02	-44.06	0.04	25
			2483.5-2496.5 MHz	2483.64	-17.12	19.41	25
			2496.5-13000 MHz	6982.26	-39.14	0.12	2.5

Test Voltage							
100Vac/50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 1			Limit (uW)
				Frequency (MHz)	Measure Level (dBm)	Measure Level (uW)	
802.11b	1	2412	30-2387 MHz	2385.82	-43.35	0.05	2.5
			2387-2400 MHz	2392.63	-27.20	1.91	25
			2483.5-2496.5 MHz	2486.38	-36.01	0.25	25
			2496.5-13000 MHz	6961.27	-39.30	0.12	2.5
	7	2442	30-2387 MHz	1853.67	-44.76	0.03	2.5
			2387-2400 MHz	2397.93	-32.45	0.57	25
			2483.5-2496.5 MHz	2484.08	-30.18	0.96	25
			2496.5-13000 MHz	6929.80	-39.16	0.12	2.5
	13	2472	30-2387 MHz	1036.61	-44.46	0.04	2.5
			2387-2400 MHz	2399.88	-38.79	0.13	25
			2483.5-2496.5 MHz	2487.12	-23.88	4.09	25
			2496.5-13000 MHz	2501.75	-29.13	1.22	2.5
802.11g	1	2412	30-2387 MHz	2385.82	-33.94	0.40	2.5
			2387-2400 MHz	2399.90	-17.06	19.68	25
			2483.5-2496.5 MHz	2483.60	-41.45	0.07	25
			2496.5-13000 MHz	6992.75	-38.78	0.13	2.5
	7	2442	30-2387 MHz	1109.60	-44.29	0.04	2.5
			2387-2400 MHz	2398.42	-40.99	0.08	25
			2483.5-2496.5 MHz	2484.26	-39.98	0.10	25
			2496.5-13000 MHz	6677.96	-39.38	0.12	2.5
	13	2472	30-2387 MHz	2383.47	-44.92	0.03	2.5
			2387-2400 MHz	2387.60	-43.66	0.04	25
			2483.5-2496.5 MHz	2483.52	-17.15	19.28	25
			2496.5-13000 MHz	2501.75	-37.16	0.19	2.5
802.11n (HT20)	1	2412	30-2387 MHz	2385.82	-38.46	0.14	2.5
			2387-2400 MHz	2398.85	-23.62	4.35	25
			2483.5-2496.5 MHz	2487.90	-43.18	0.05	25
			2496.5-13000 MHz	6961.27	-39.44	0.11	2.5
	7	2442	30-2387 MHz	509.17	-44.66	0.03	2.5
			2387-2400 MHz	2399.11	-43.57	0.04	25
			2483.5-2496.5 MHz	2493.00	-42.36	0.06	25
			2496.5-13000 MHz	6961.27	-39.50	0.11	2.5
	13	2472	30-2387 MHz	940.07	-45.04	0.03	2.5
			2387-2400 MHz	2390.06	-44.49	0.04	25
			2483.5-2496.5 MHz	2483.51	-18.55	13.96	25
			2496.5-13000 MHz	6793.39	-39.07	0.12	2.5

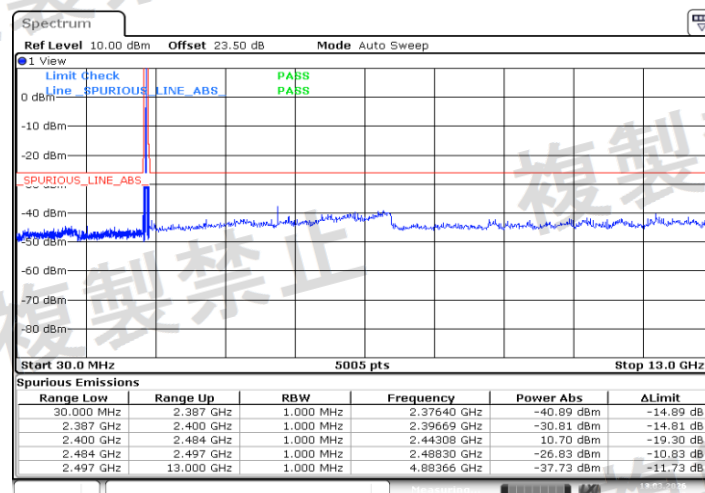
Test Voltage							
100Vac/50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 1			Limit (uW)
				Frequency (MHz)	Measure Level (dBm)	Measure Level (uW)	
802.11ax (HE20)	1	2412	30-2387 MHz	2383.47	-39.44	0.11	2.5
			2387-2400 MHz	2399.79	-23.33	4.65	25
			2483.5-2496.5 MHz	2485.14	-41.03	0.08	25
			2496.5-13000 MHz	6992.75	-39.29	0.12	2.5
	7	2442	30-2387 MHz	2378.76	-44.56	0.03	2.5
			2387-2400 MHz	2393.58	-42.96	0.05	25
			2483.5-2496.5 MHz	2485.95	-42.36	0.06	25
			2496.5-13000 MHz	6887.82	-39.40	0.11	2.5
	13	2472	30-2387 MHz	984.81	-42.93	0.05	2.5
			2387-2400 MHz	2397.98	-44.01	0.04	25
			2483.5-2496.5 MHz	2483.68	-19.74	10.62	25
			2496.5-13000 MHz	6940.29	-38.82	0.13	2.5

Chain0 : Spurious Emission Intensity @ 802.11b Mode Ch 1



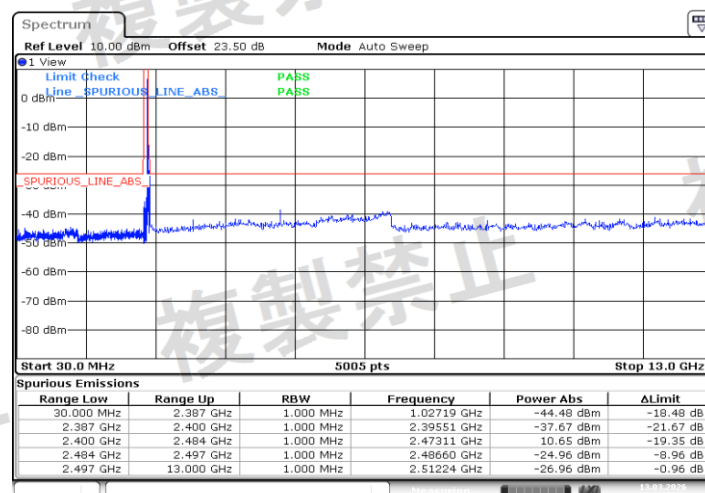
Date: 13 MAR 2026 11:38:21

Chain0 : Spurious Emission Intensity @ 802.11b Mode Ch 7



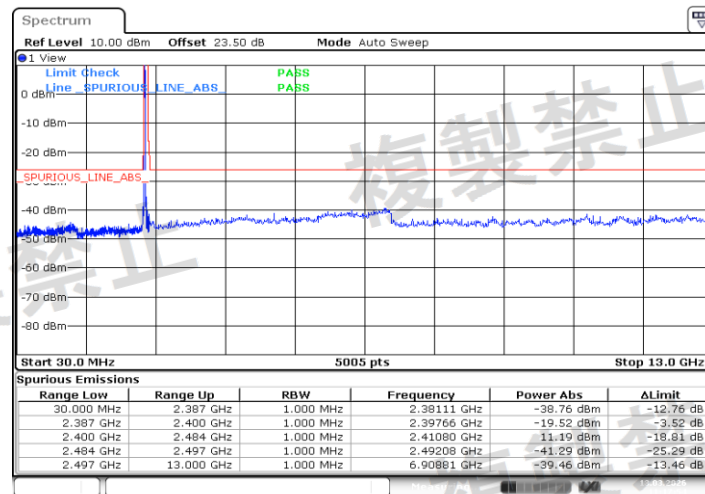
Date: 13 MAR 2026 11:37:00

Chain0 : Spurious Emission Intensity @ 802.11b Mode Ch 13



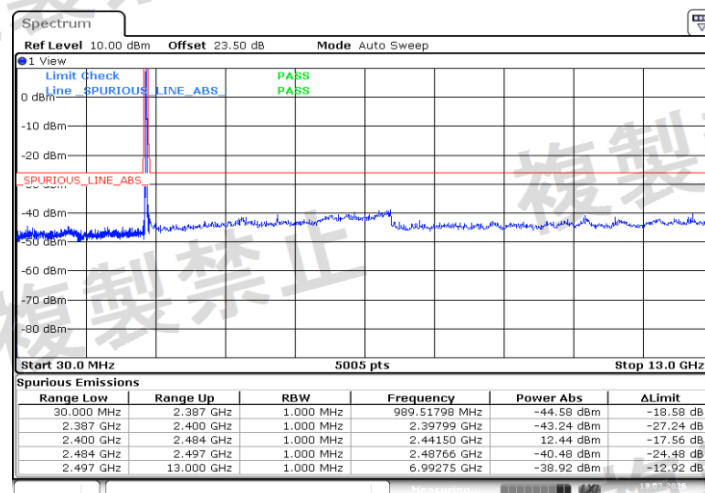
Date: 13 MAR 2026 11:37:32

Chain0 : Spurious Emission Intensity @ 802.11g Mode Ch 1



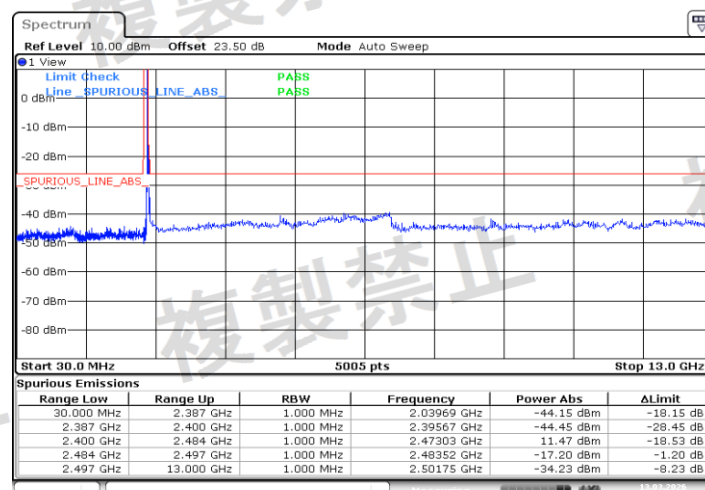
Date: 13 MAR 2026 11:17:54

Chain0 : Spurious Emission Intensity @ 802.11g Mode Ch 7



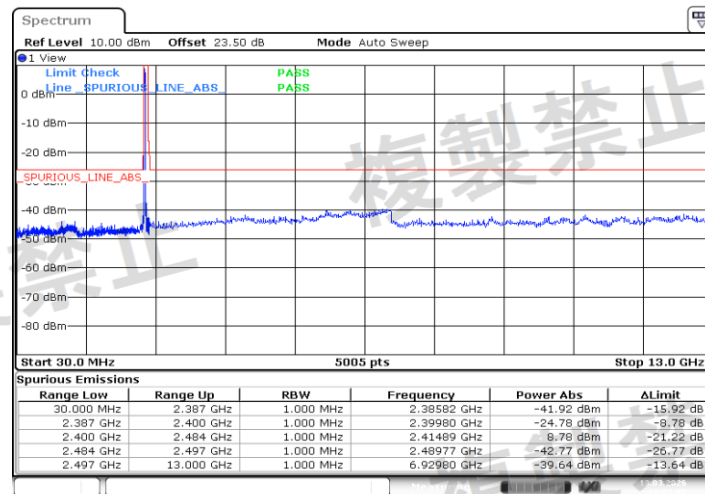
Date: 13 MAR 2026 11:18:52

Chain0 : Spurious Emission Intensity @ 802.11g Mode Ch 13



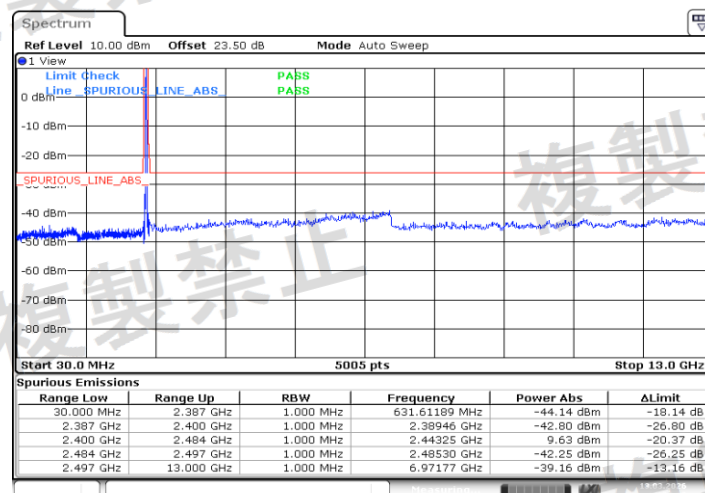
Date: 13 MAR 2026 11:17:13

Chain0 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 1



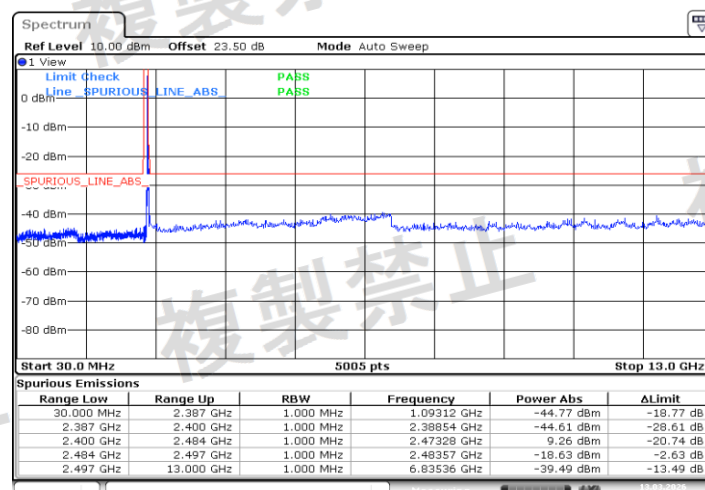
Date: 13 MAR 2026 11:23:05

Chain0 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 7



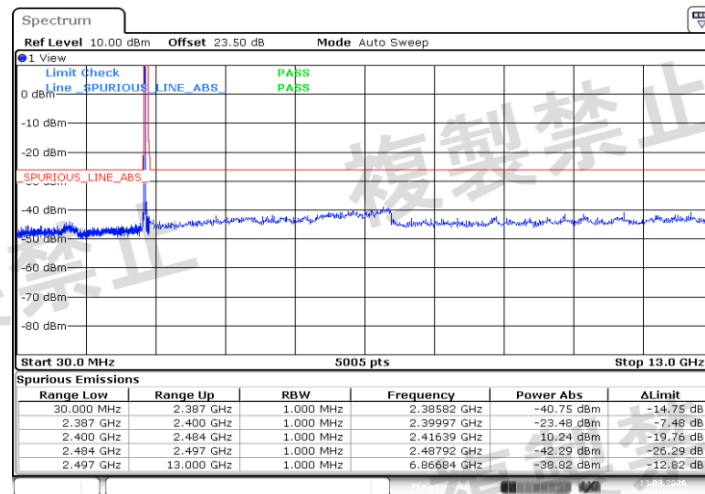
Date: 13 MAR 2026 11:24:03

Chain0 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 13



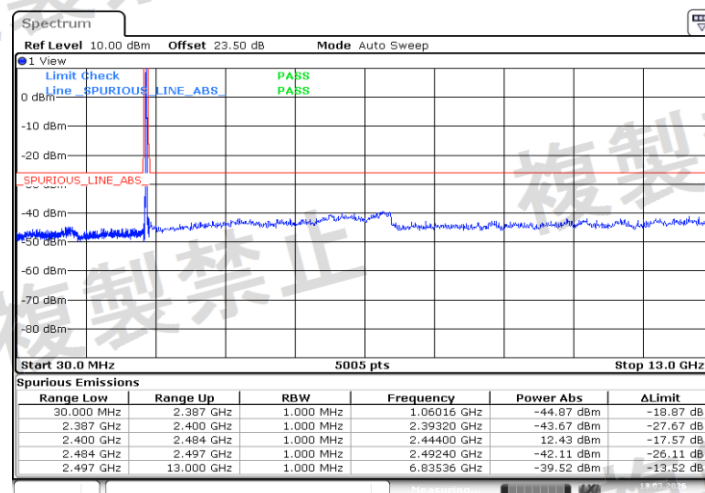
Date: 13 MAR 2026 11:22:06

Chain0 : Spurious Emission Intensity @ 802.11ax(HE20) Mode Ch 1



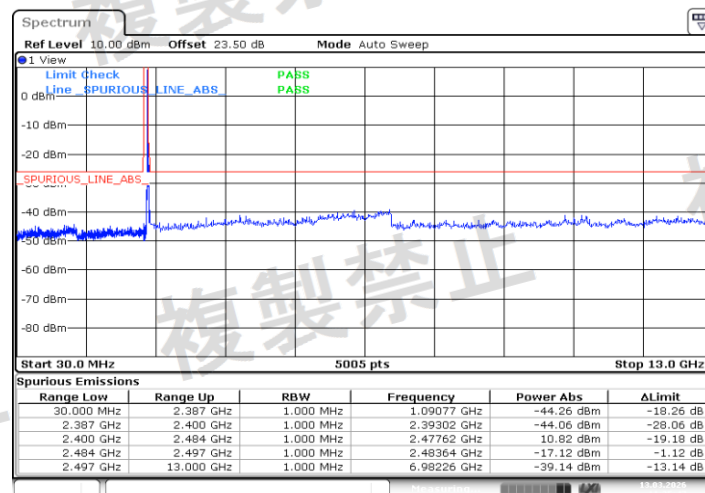
Date: 13 MAR 2026 11:28:32

Chain0 : Spurious Emission Intensity @ 802.11 ax(HE20) Mode Ch 7



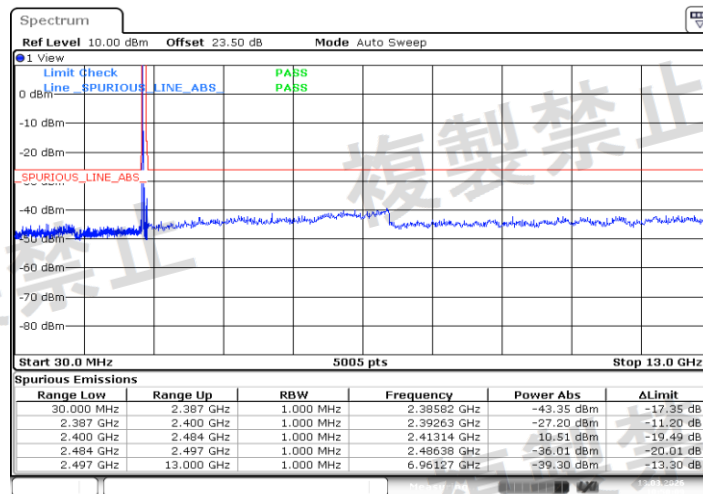
Date: 13 MAR 2026 11:27:39

Chain0 : Spurious Emission Intensity @ 802.11 ax(HE20) Mode Ch 13



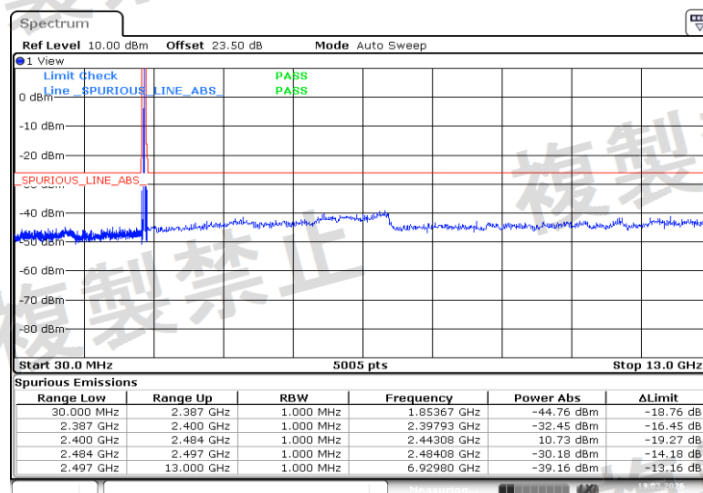
Date: 13 MAR 2026 11:25:47

Chain1 : Spurious Emission Intensity @ 802.11b Mode Ch 1



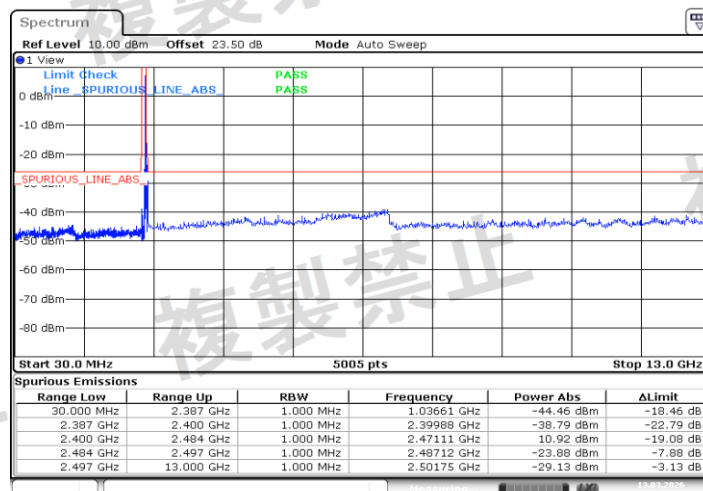
Date: 13 MAR 2026 10:50:09

Chain1 : Spurious Emission Intensity @ 802.11b Mode Ch 7



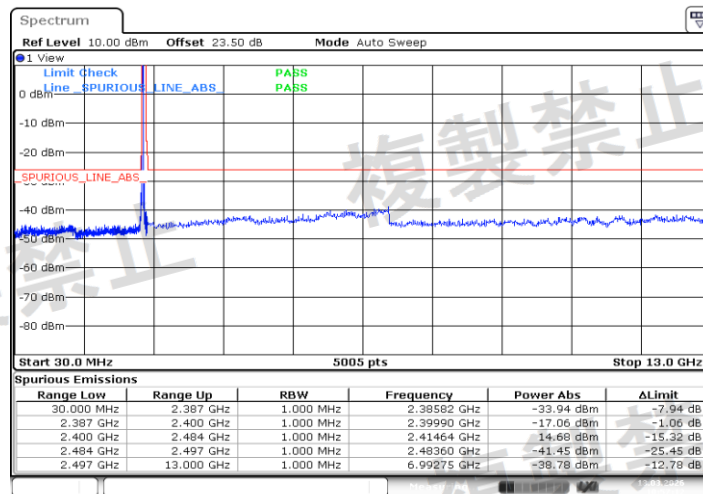
Date: 13 MAR 2026 10:52:05

Chain1 : Spurious Emission Intensity @ 802.11b Mode Ch 13



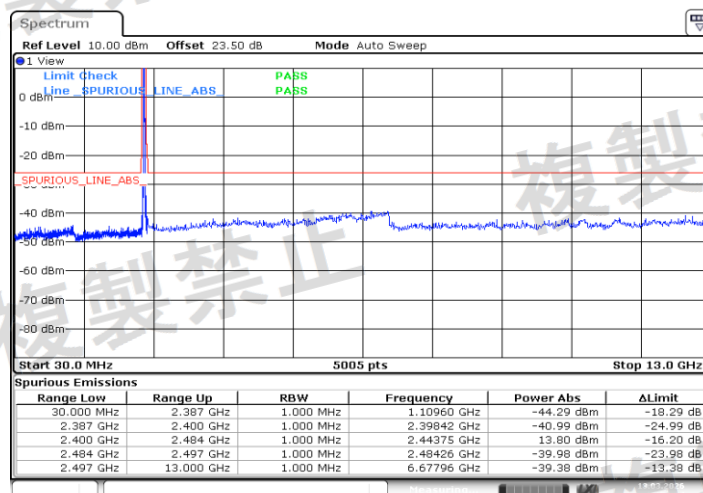
Date: 13 MAR 2026 10:53:01

Chain1 : Spurious Emission Intensity @ 802.11g Mode Ch 1



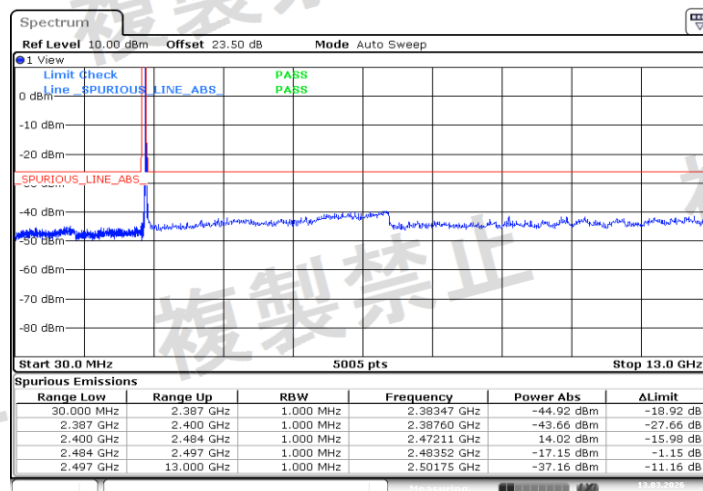
Date: 13 MAR 2026 10:57:13

Chain1 : Spurious Emission Intensity @ 802.11g Mode Ch 7



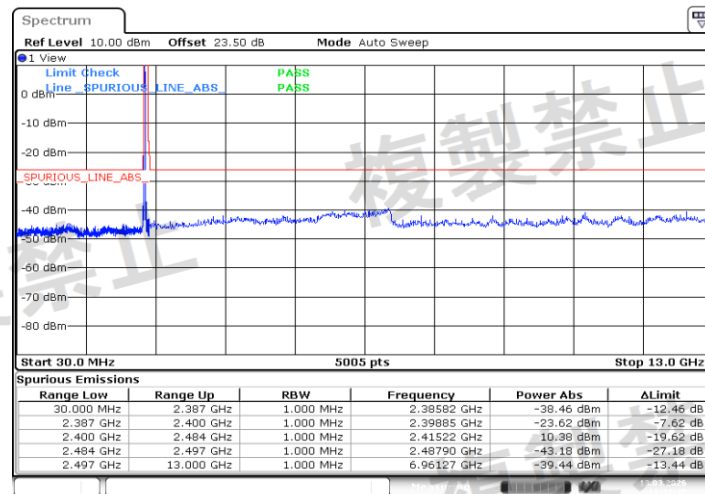
Date: 13 MAR 2026 10:58:34

Chain1 : Spurious Emission Intensity @ 802.11g Mode Ch 13



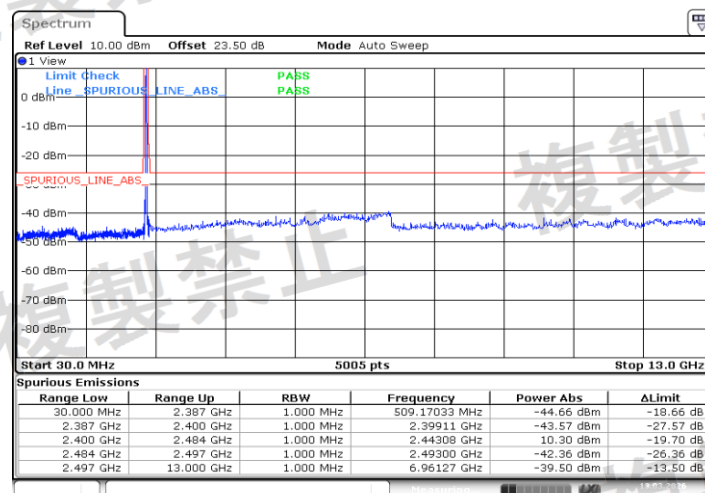
Date: 13 MAR 2026 10:59:54

Chain1 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 1



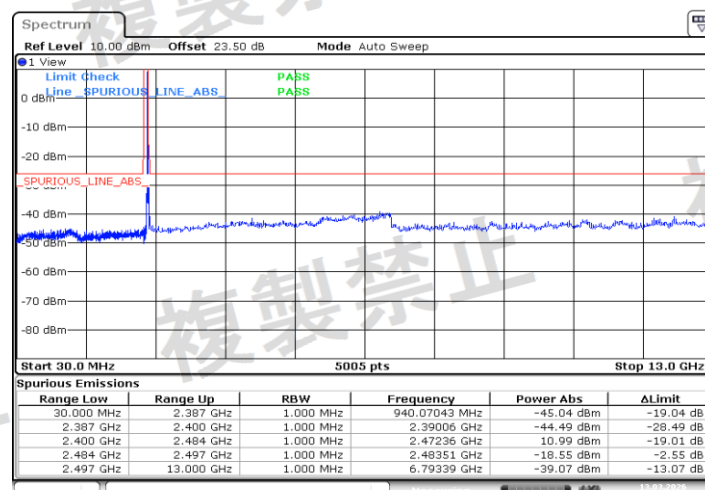
Date: 13 MAR 2026 11:32:35

Chain1 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 7



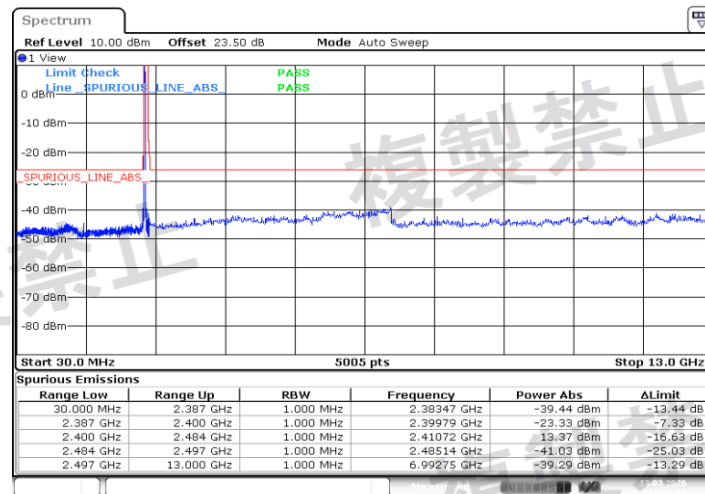
Date: 13 MAR 2026 11:33:18

Chain1 : Spurious Emission Intensity @ 802.11n(HT20) Mode Ch 13



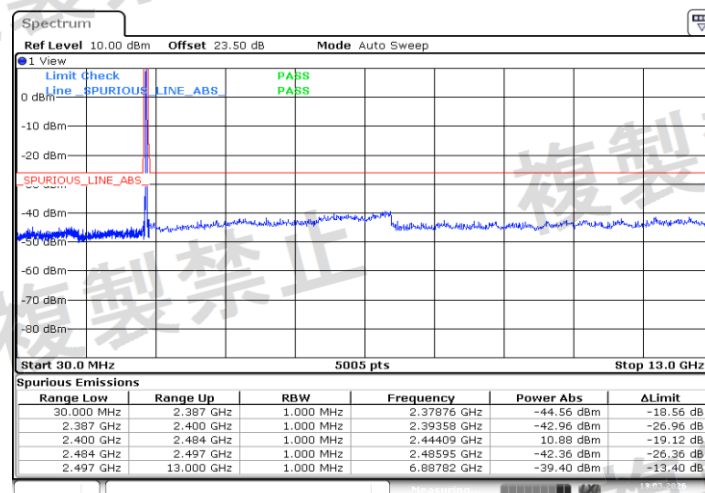
Date: 13 MAR 2026 11:34:10

Chain1 : Spurious Emission Intensity @ 802.11ax(HE20) Mode Ch 1



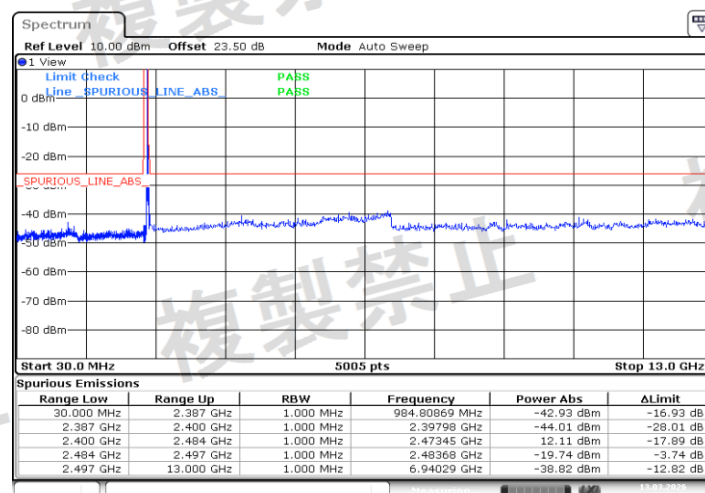
Date: 13 MAR 2026 11:31:18

Chain1 : Spurious Emission Intensity @ 802.11ax(HE20) Mode Ch 7



Date: 13 MAR 2026 11:28:36

Chain1 : Spurious Emission Intensity @ 802.11ax(HE20) Mode Ch 13



Date: 13 MAR 2026 11:29:23

8. Secondary Radiated Emissions

8.1 Limit of Secondary Radiated Emissions & Test Procedures

Frequency Range	Limit
<1000MHz	4nW
≥1000MHz	20nW

8.2 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

- Set spectrum analyzer as below
 Frequency: 30MHz to 13GHz
 RBW=100 kHz for 1 GHz ↓ , 1 MHz for 1 GHz ↑
 VBW=RBW
 Sweep time=Auto
 Detector=Peak
- Set spectrum analyzer for final measurement as below
 Center frequency: Secondary emission frequency
 Span: 0Hz
 RBW=100 kHz for 1 GHz ↓ , 1 MHz for 1 GHz ↑
 VBW=RBW
 Sweep time=Auto
Detector: Sample

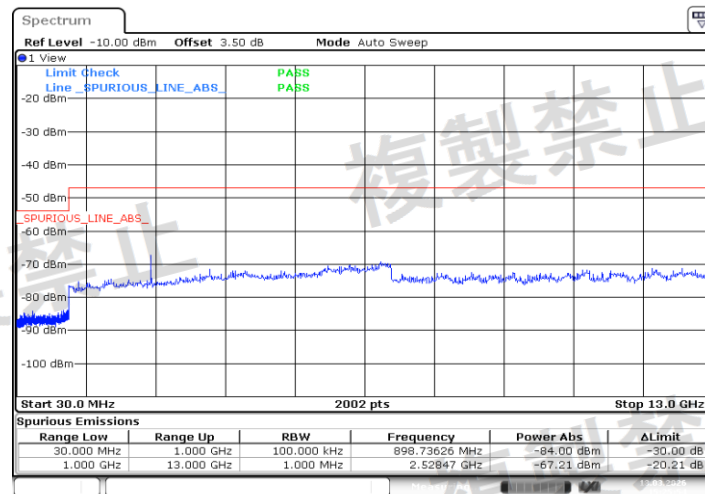
TEST REPORT
8.3 Test Result for Secondary Radiated Emissions

Date	2026/03/13
Temperature (°C)	21
Humidity (%)	68

Test Voltage							
100Vac/ 50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 0			
				Frequency (MHz)	Measure Level (dBm)	Measure Level (nW)	Limit (nW)
802.11b	1	2412	30-1000 MHz	898.74	-84.00	0.004	4
			1000-13000 MHz	2528.47	-67.21	0.190	20
	7	2442	30-1000 MHz	994.67	-81.80	0.007	4
			1000-13000 MHz	6880.12	-69.36	0.116	20
	13	2472	30-1000 MHz	982.07	-83.58	0.004	4
			1000-13000 MHz	2528.47	-67.25	0.188	20
802.11g	1	2412	30-1000 MHz	239.80	-83.31	0.005	4
			1000-13000 MHz	6988.01	-69.10	0.123	20
	7	2442	30-1000 MHz	986.92	-83.99	0.004	4
			1000-13000 MHz	6796.20	-69.60	0.110	20
	13	2472	30-1000 MHz	326.04	-83.14	0.005	4
			1000-13000 MHz	6832.17	-68.98	0.126	20
802.11n (HT20)	1	2412	30-1000 MHz	328.95	-83.71	0.004	4
			1000-13000 MHz	2408.59	-68.32	0.147	20
	7	2442	30-1000 MHz	990.79	-83.70	0.004	4
			1000-13000 MHz	6940.06	-69.17	0.121	20
	13	2472	30-1000 MHz	253.36	-83.30	0.005	4
			1000-13000 MHz	7000.00	-69.26	0.119	20
802.11ax (HE20)	1	2412	30-1000 MHz	938.47	-83.49	0.004	4
			1000-13000 MHz	6904.10	-69.07	0.124	20
	7	2442	30-1000 MHz	963.66	-83.66	0.004	4
			1000-13000 MHz	6760.24	-69.04	0.125	20
	13	2472	30-1000 MHz	698.15	-83.98	0.004	4
			1000-13000 MHz	6868.13	-68.48	0.142	20

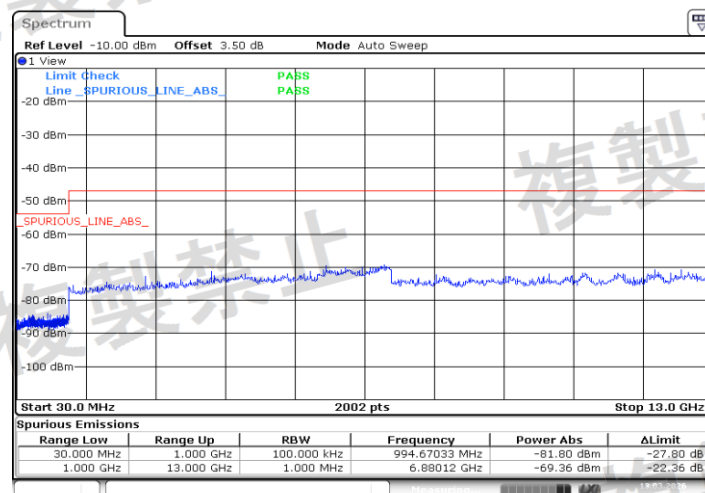
Test Voltage							
100Vac/ 50Hz							
Modulation	Channel	Frequency (MHz)	Frequency Range	Chain 1			
				Frequency (MHz)	Measure Level (dBm)	Measure Level (nW)	Limit (nW)
802.11b	1	2412	30-1000 MHz	989.83	-81.40	0.007	4
			1000-13000 MHz	3487.51	-63.14	0.485	20
	7	2442	30-1000 MHz	989.83	-82.08	0.006	4
			1000-13000 MHz	6976.02	-69.52	0.112	20
	13	2472	30-1000 MHz	735.94	-81.89	0.006	4
			1000-13000 MHz	3475.52	-61.24	0.752	20
802.11g	1	2412	30-1000 MHz	594.46	-82.57	0.006	4
			1000-13000 MHz	6928.07	-68.79	0.132	20
	7	2442	30-1000 MHz	989.83	-81.39	0.007	4
			1000-13000 MHz	2540.46	-67.63	0.173	20
	13	2472	30-1000 MHz	473.33	-83.43	0.005	4
			1000-13000 MHz	6844.16	-68.90	0.129	20
802.11n (HT20)	1	2412	30-1000 MHz	989.83	-83.23	0.005	4
			1000-13000 MHz	6832.17	-68.95	0.127	20
	7	2442	30-1000 MHz	984.01	-83.46	0.005	4
			1000-13000 MHz	6904.10	-69.70	0.107	20
	13	2472	30-1000 MHz	845.44	-83.61	0.004	4
			1000-13000 MHz	3451.55	-64.99	0.317	20
802.11ax (HE20)	1	2412	30-1000 MHz	746.60	-82.26	0.006	4
			1000-13000 MHz	6904.10	-69.53	0.111	20
	7	2442	30-1000 MHz	984.01	-83.37	0.005	4
			1000-13000 MHz	2432.57	-63.74	0.423	20
	13	2472	30-1000 MHz	956.88	-83.16	0.005	4
			1000-13000 MHz	6988.01	-69.01	0.126	20

Chain0 : Secondary Radiated Emission @ 802.11b Mode Ch 1



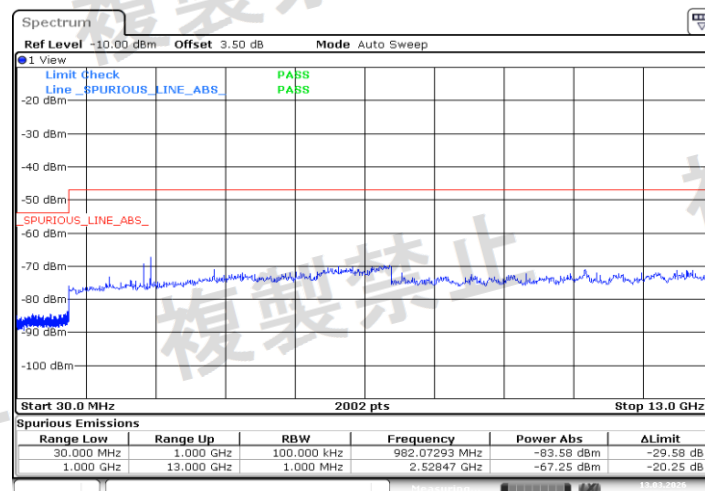
Date: 13 MAR 2026 15:25:55

Chain0 : Secondary Radiated Emission @ 802.11b Mode Ch 7



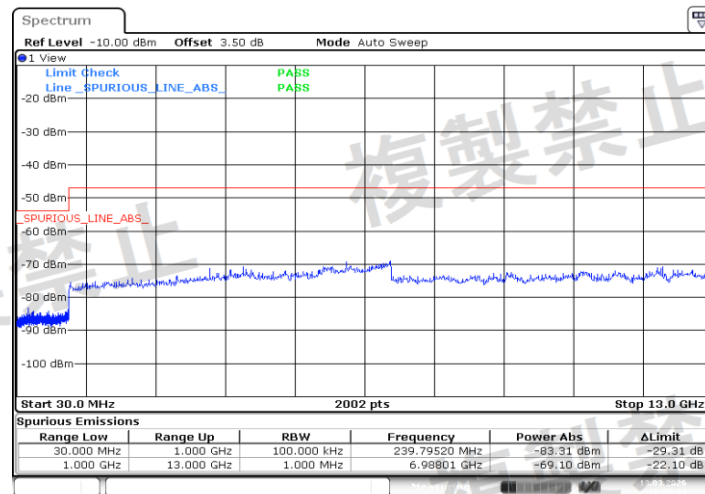
Date: 13 MAR 2026 15:27:03

Chain0 : Secondary Radiated Emission @ 802.11b Mode Ch 13



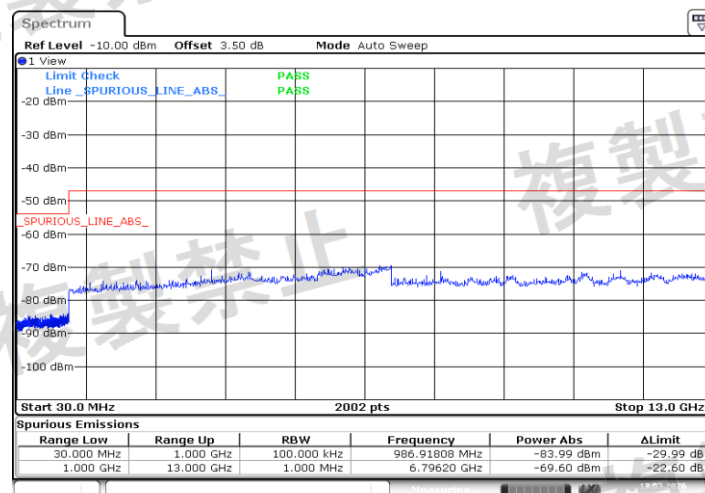
Date: 13 MAR 2026 15:27:44

Chain0 : Secondary Radiated Emission @ 802.11g Mode Ch 1



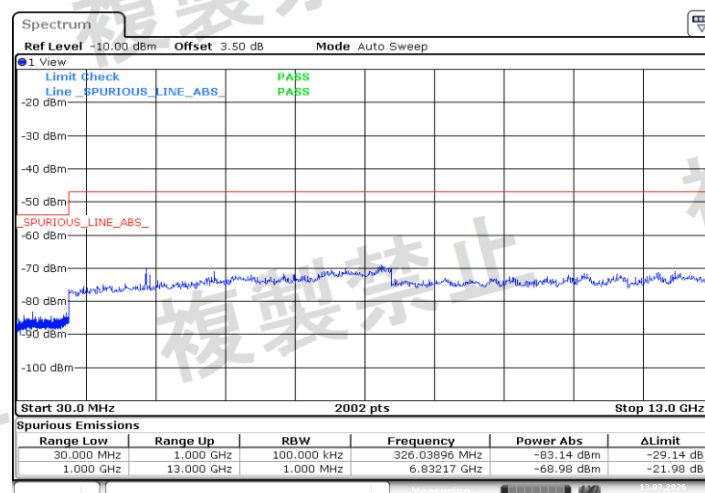
Date: 13 MAR 2026 16:07:15

Chain0 : Secondary Radiated Emission @ 802.11g Mode Ch 7



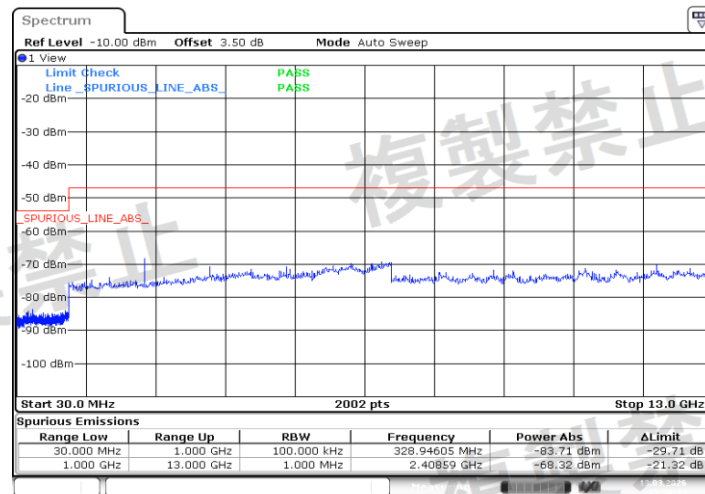
Date: 13 MAR 2026 16:00:41

Chain0 : Secondary Radiated Emission @ 802.11g Mode Ch 13



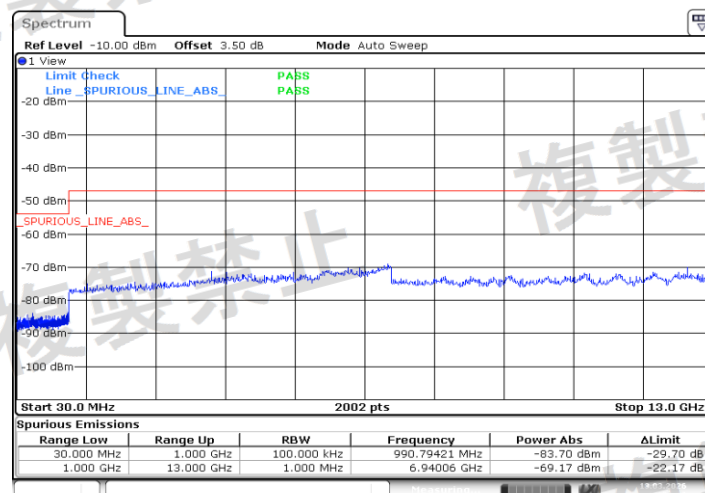
Date: 13 MAR 2026 15:28:04

Chain0 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 1



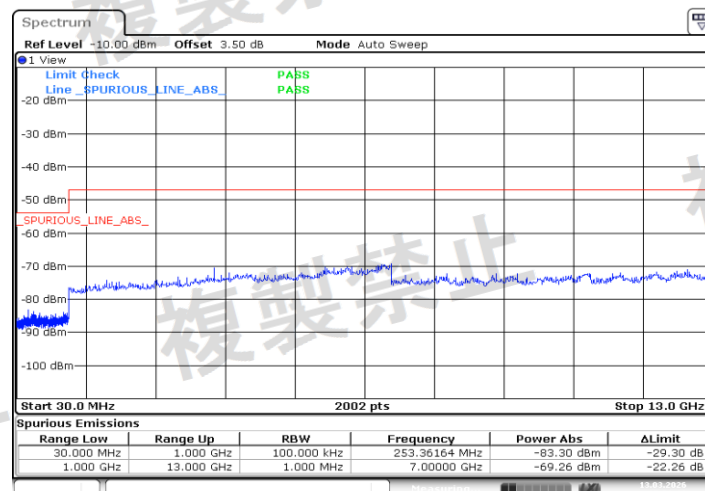
Date: 13 MAR 2026 15:58:35

Chain0 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 7



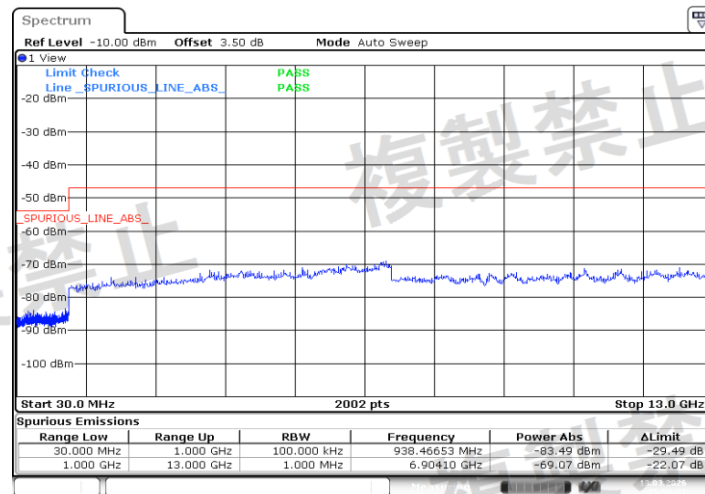
Date: 13 MAR 2026 16:01:31

Chain0 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 13



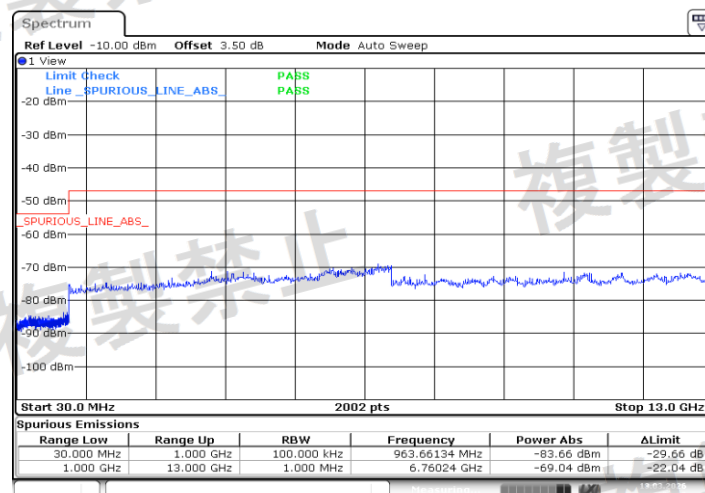
Date: 13 MAR 2026 15:28:31

Chain0 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 1



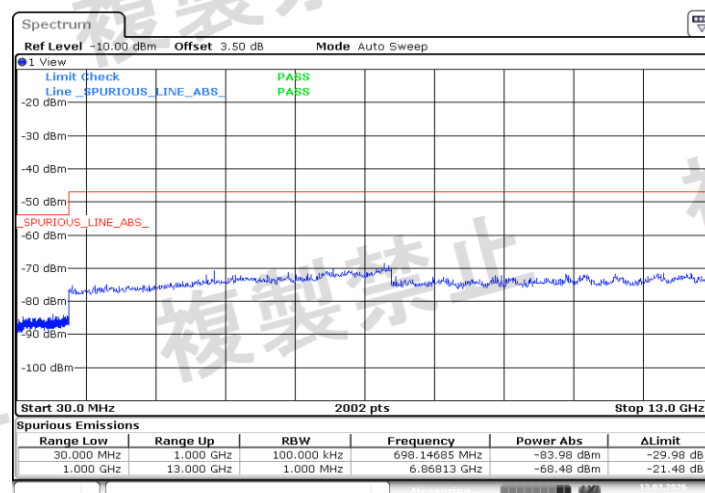
Date: 13 MAR 2026 15:56:22

Chain0 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 7



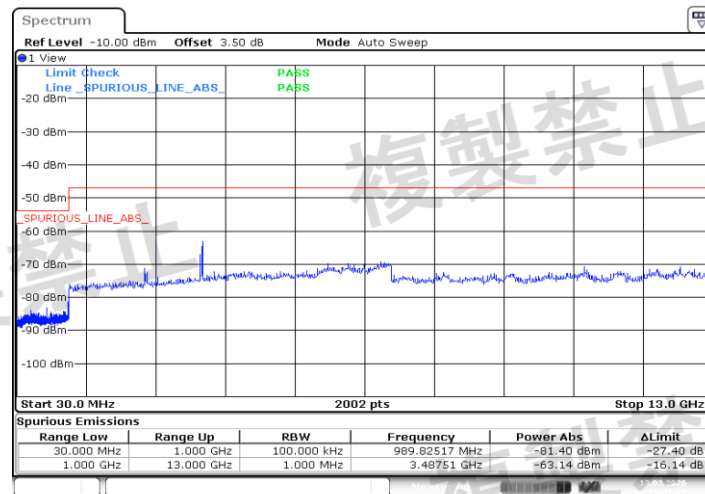
Date: 13 MAR 2026 16:02:19

Chain0 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 13



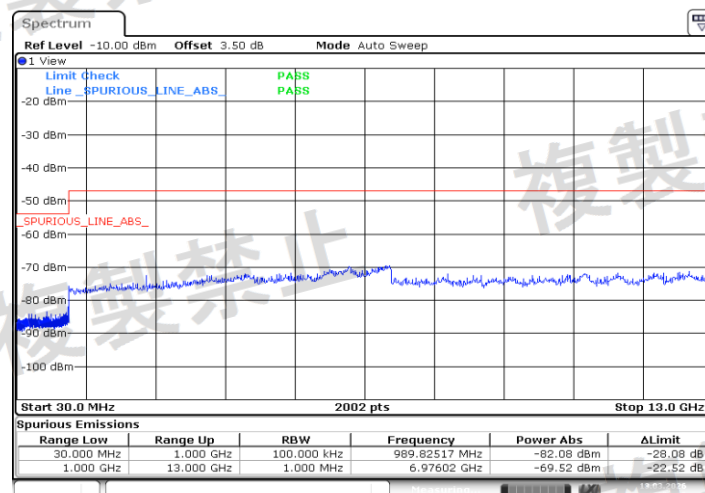
Date: 13 MAR 2026 15:28:56

Chain1 : Secondary Radiated Emission @ 802.11b Mode Ch 1



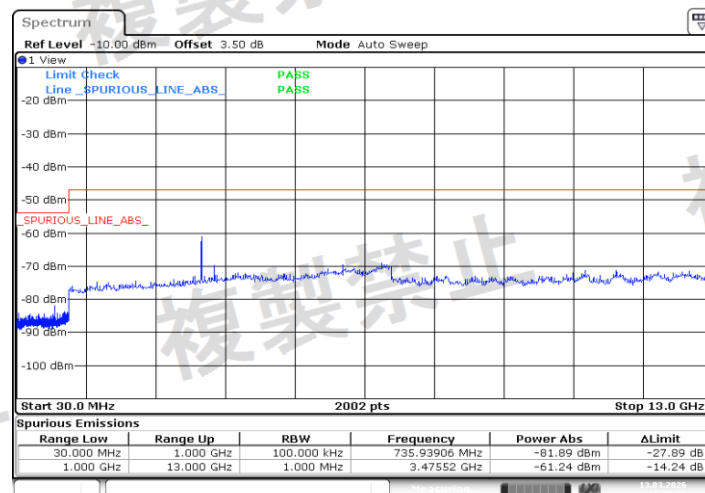
Date: 13 MAR 2026 15:41:40

Chain1 : Secondary Radiated Emission @ 802.11b Mode Ch 7



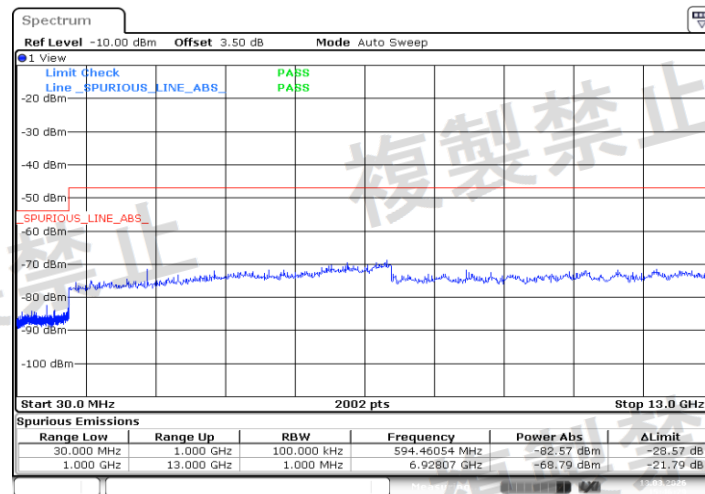
Date: 13 MAR 2026 16:06:16

Chain1 : Secondary Radiated Emission @ 802.11b Mode Ch 13

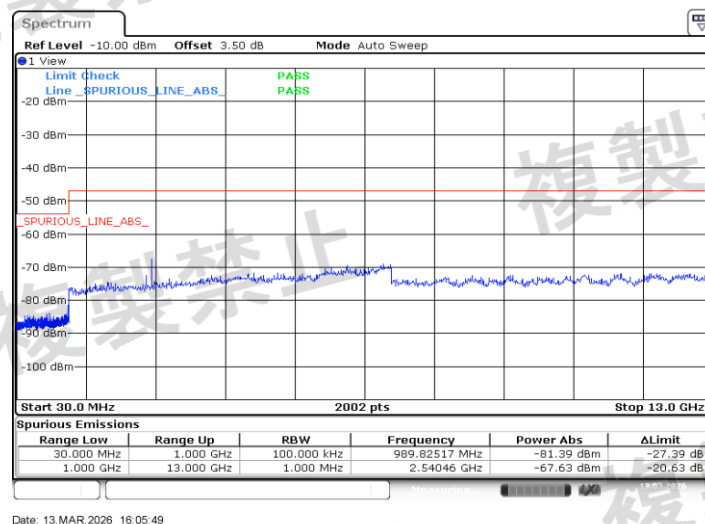


Date: 13 MAR 2026 15:38:06

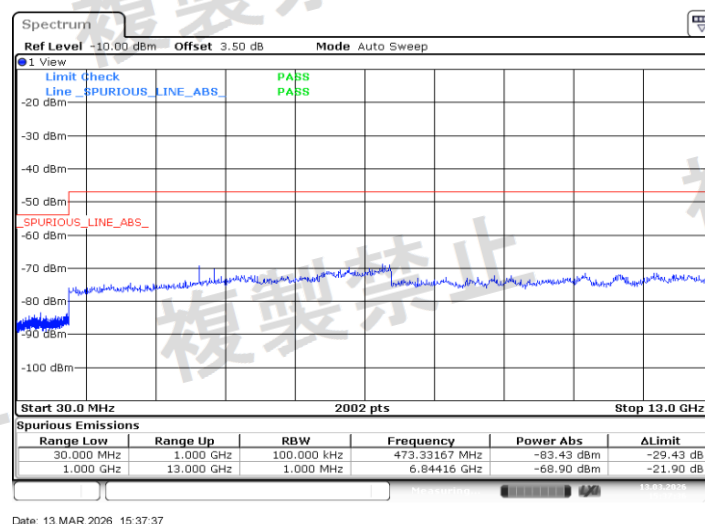
Chain1 : Secondary Radiated Emission @ 802.11g Mode Ch 1



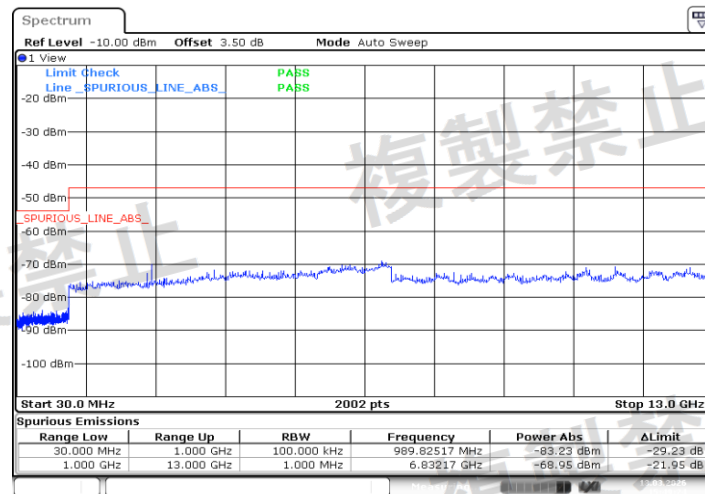
Chain1 : Secondary Radiated Emission @ 802.11g Mode Ch 7



Chain1 : Secondary Radiated Emission @ 802.11g Mode Ch 13

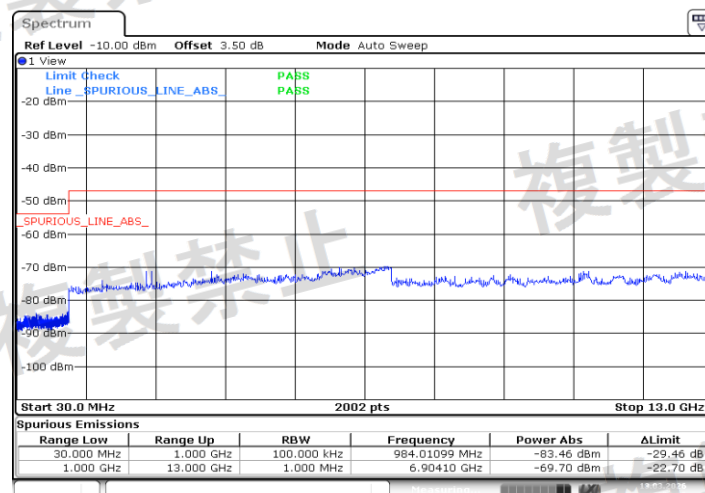


Chain1 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 1



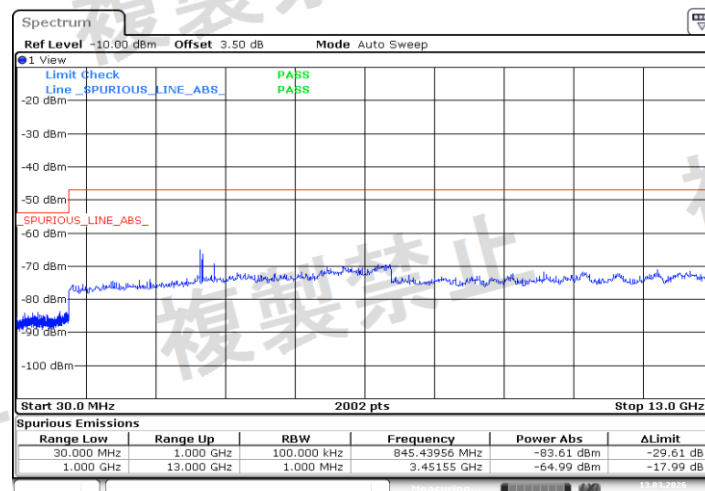
Date: 13 MAR 2026 15:49:24

Chain1 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 7



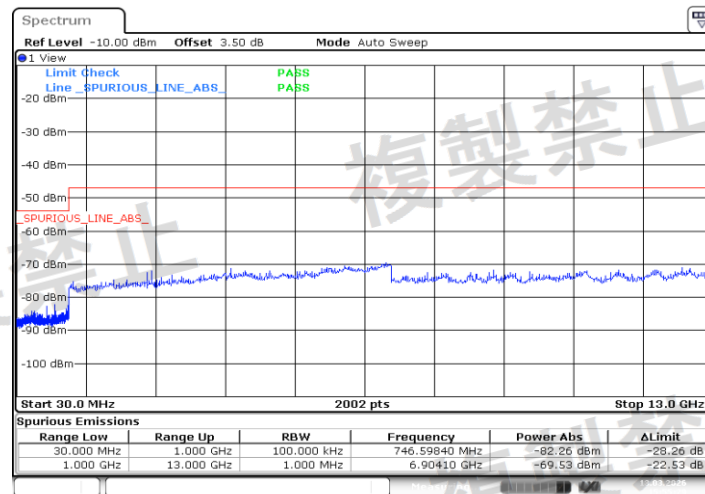
Date: 13 MAR 2026 16:04:27

Chain1 : Secondary Radiated Emission @ 802.11n(HT20) Mode Ch 13



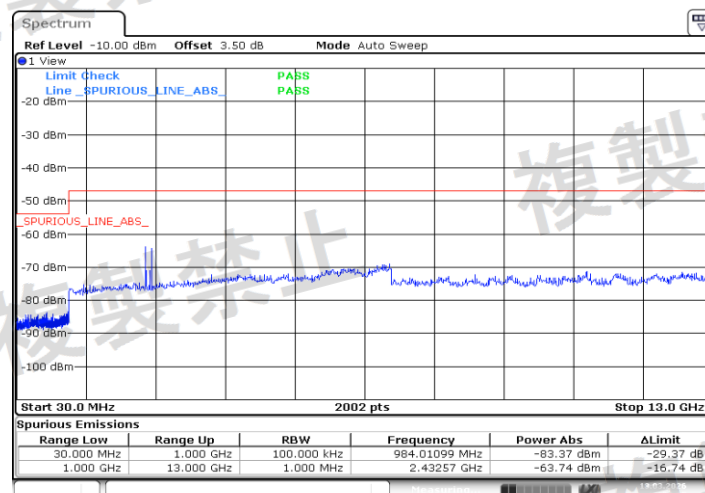
Date: 13 MAR 2026 15:35:14

Chain1 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 1



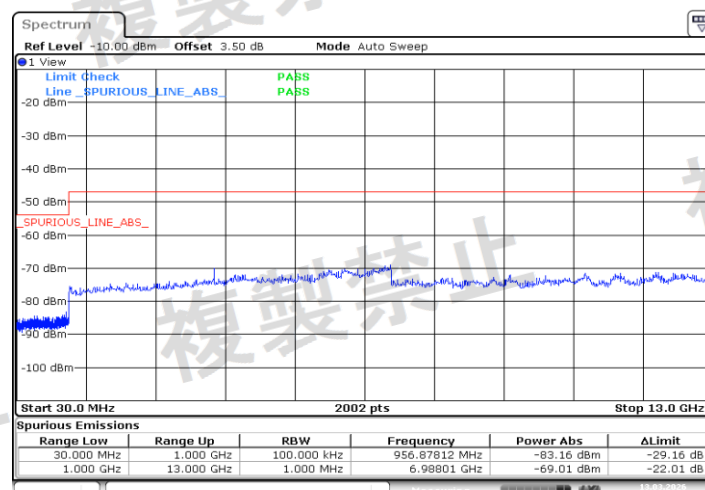
Date: 13 MAR 2026 15:55:29

Chain1 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 7



Date: 13 MAR 2026 16:04:05

Chain1 : Secondary Radiated Emission @ 802.11ax(HE20) Mode Ch 13



Date: 13 MAR 2026 15:30:49

9. Occupied Bandwidth**9.1 Limit of Occupied Bandwidth**

Mode	Limit(MHz)
DSSS	26
OFDM(20MHz)	26
OFDM(40MHz)	38
FHSS	83.5
Others	26

9.2 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

1. Set spectrum analyzer as below
Frequency=Test Frequency
Span=3MHz
RBW=below 3% the limit
VBW=RBW
Detector=Peak
Sweep time=Auto
Trace=Maxhold
2. Using the OCB(99%) function of spectrum analyzer to measure value.

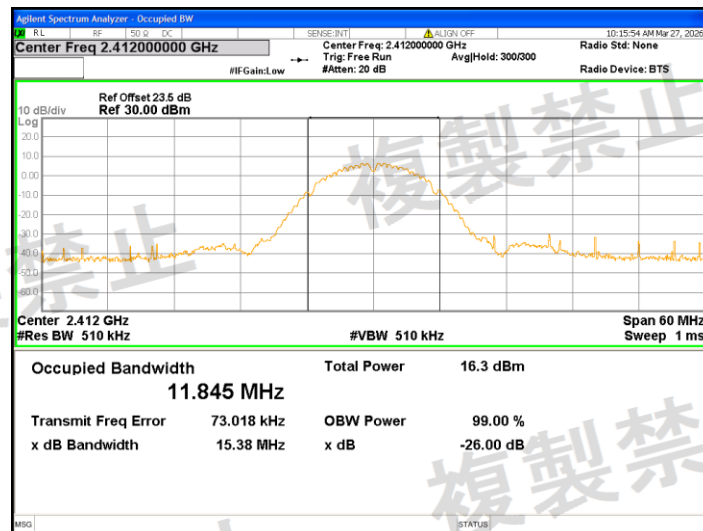
9.3 Test Result for Occupied Bandwidth

Date	2026/03/27
Temperature (°C)	23
Humidity (%)	62

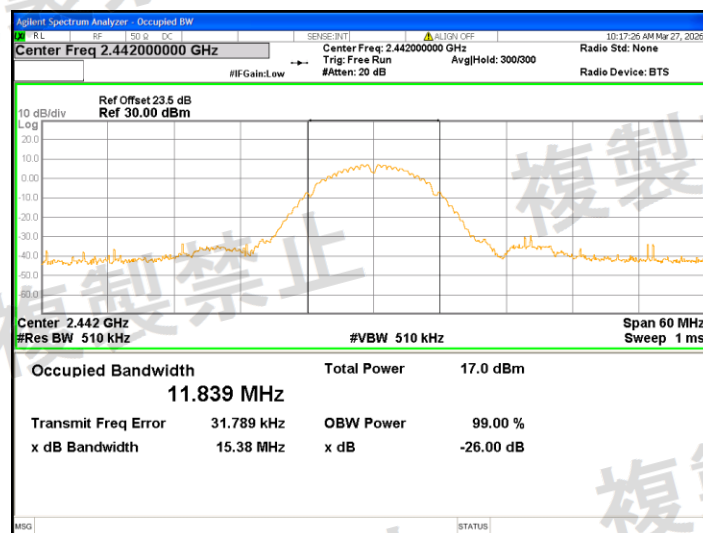
Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 0	
			Measure Value (MHz)	Limit (MHz)
802.11b	1	2412	11.85	26
	7	2442	11.84	26
	13	2472	11.84	26
802.11g	1	2412	17.46	26
	7	2442	17.41	26
	13	2472	17.39	26
802.11n (HT20)	1	2412	18.38	26
	7	2442	18.34	26
	13	2472	18.45	26
802.11ax (HE20)	1	2412	19.10	26
	7	2442	19.06	26
	13	2472	19.05	26

Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 1	
			Measure Value (MHz)	Limit (MHz)
802.11b	1	2412	11.96	26
	7	2442	11.95	26
	13	2472	11.95	26
802.11g	1	2412	17.07	26
	7	2442	17.06	26
	13	2472	17.04	26
802.11n (HT20)	1	2412	18.05	26
	7	2442	18.01	26
	13	2472	18.02	26
802.11ax (HE20)	1	2412	19.09	26
	7	2442	19.01	26
	13	2472	19.01	26

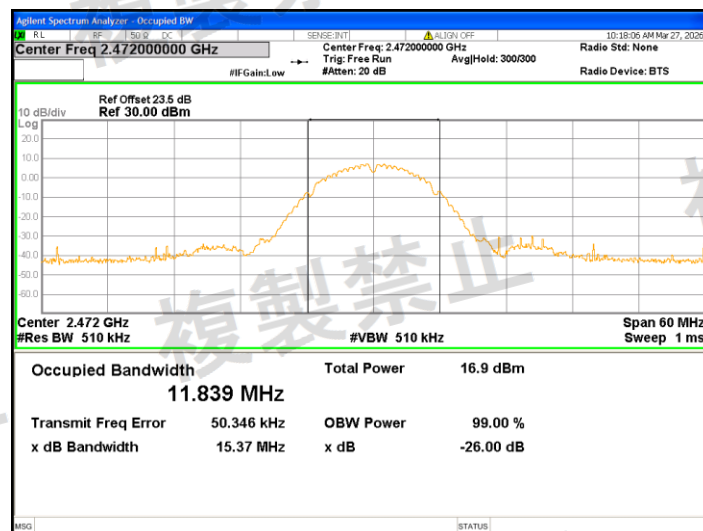
Chain0 : Occupied Bandwidth @ 802.11b Mode Ch 1



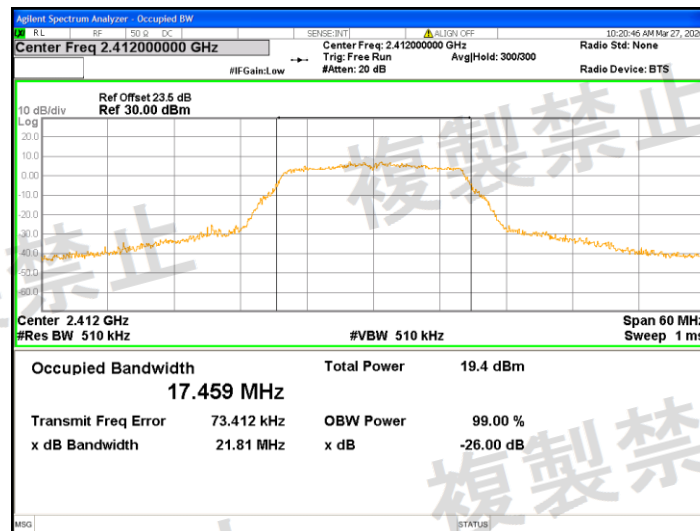
Chain0 : Occupied Bandwidth @ 802.11b Mode Ch 7



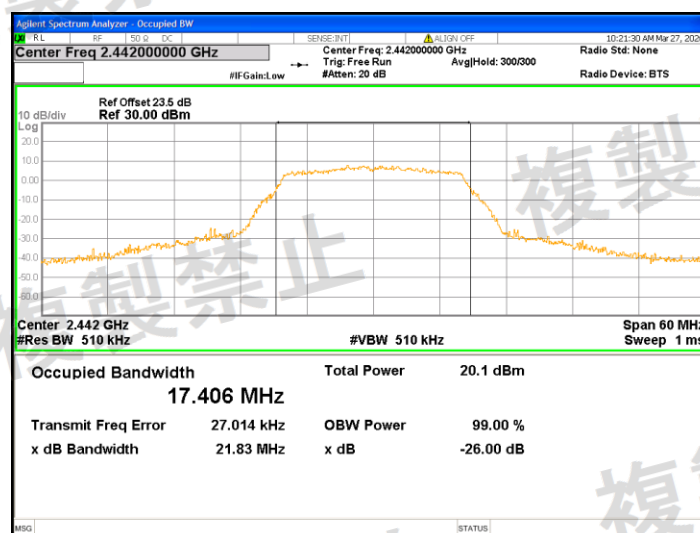
Chain0 : Occupied Bandwidth @ 802.11b Mode Ch 13



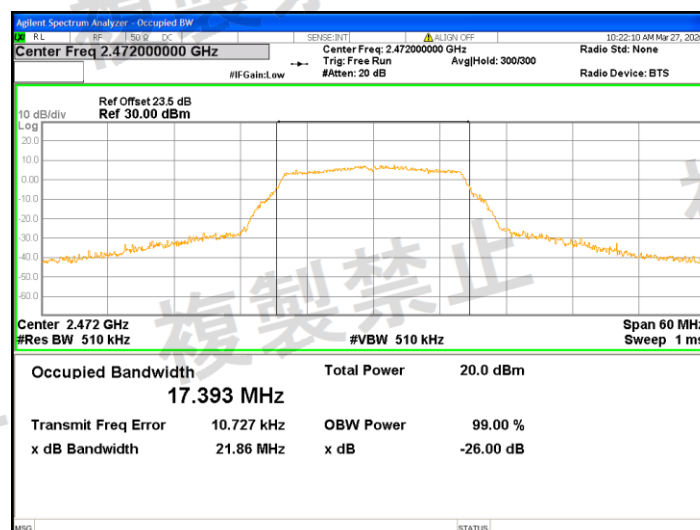
Chain0 : Occupied Bandwidth @ 802.11g Mode Ch 1



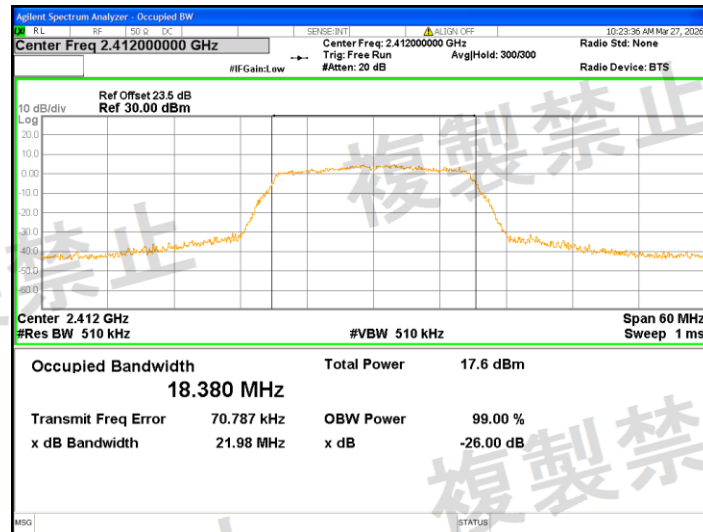
Chain0 : Occupied Bandwidth @ 802.11g Mode Ch 7



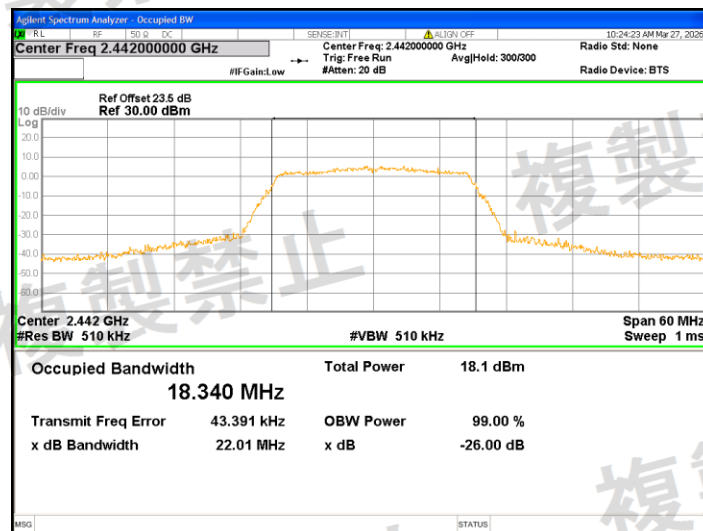
Chain0 : Occupied Bandwidth @ 802.11g Mode Ch 13



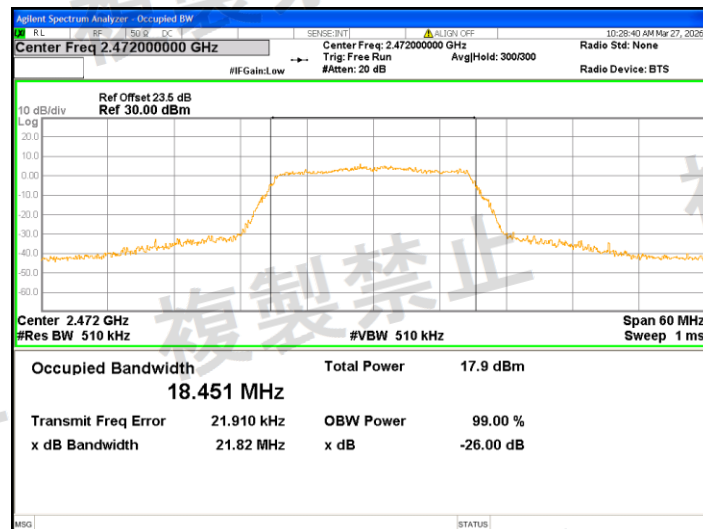
Chain0 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 1



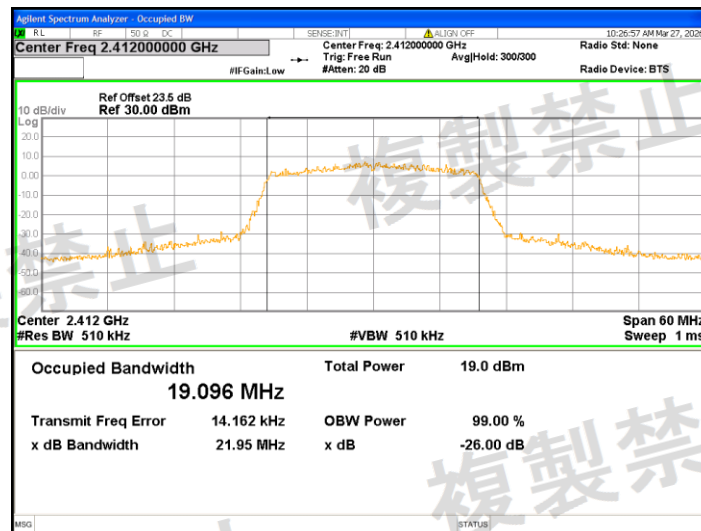
Chain0 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 7



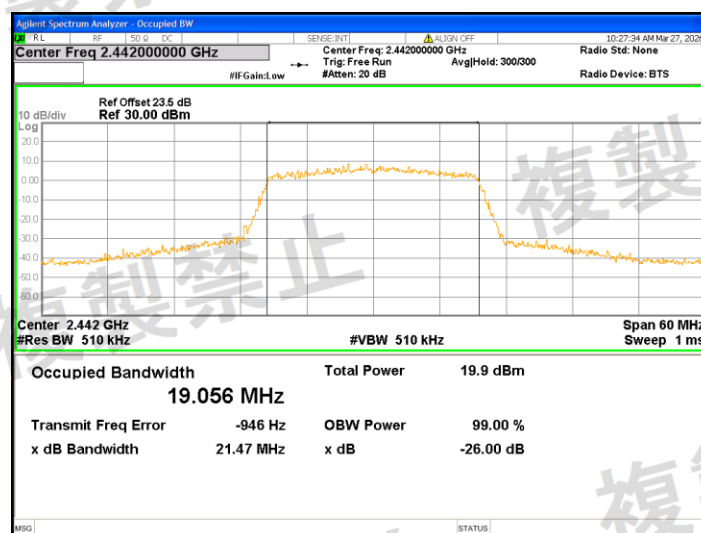
Chain0 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 13



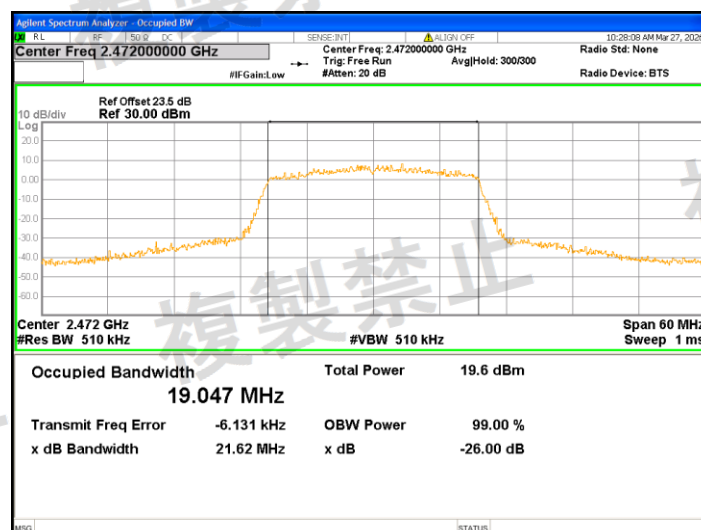
Chain0 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 1



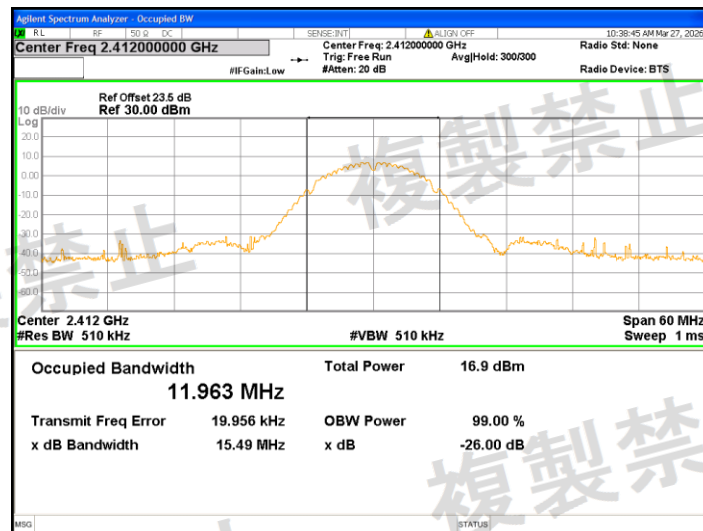
Chain0 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 7



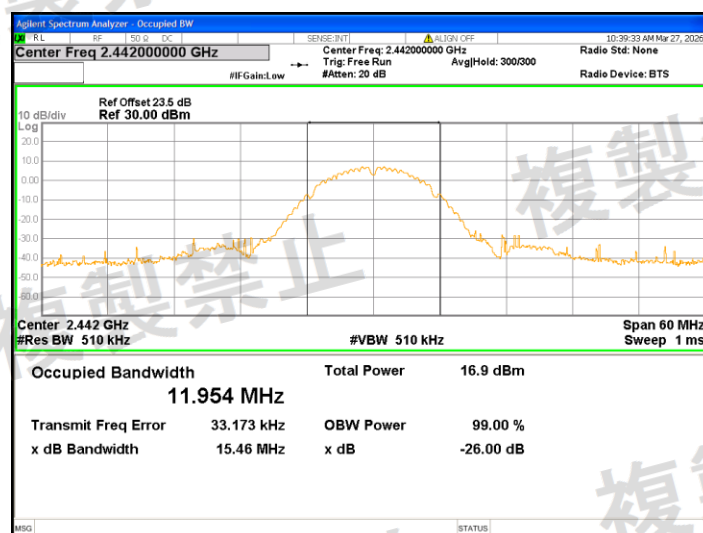
Chain0 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 13



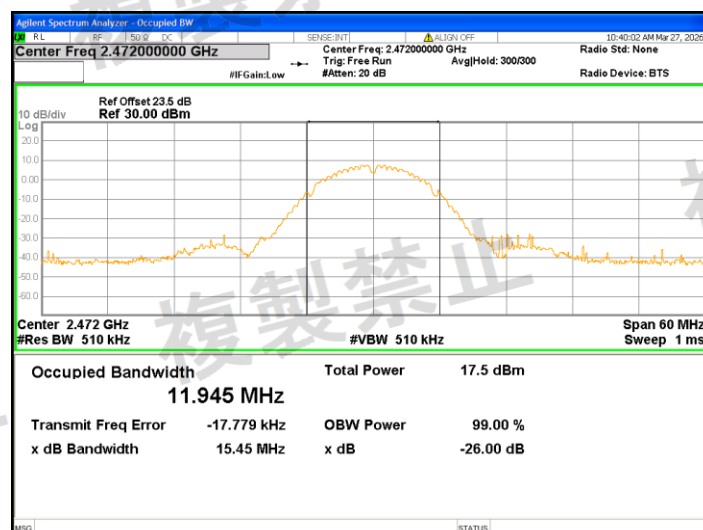
Chain1 : Occupied Bandwidth @ 802.11b Mode Ch 1



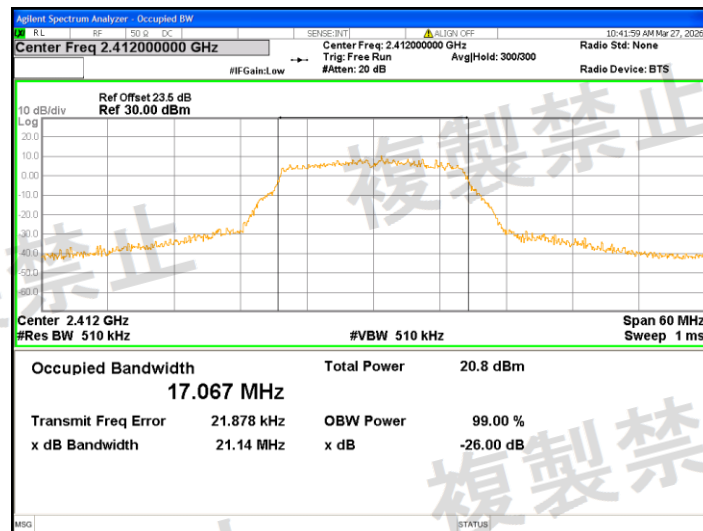
Chain1 : Occupied Bandwidth @ 802.11b Mode Ch 7



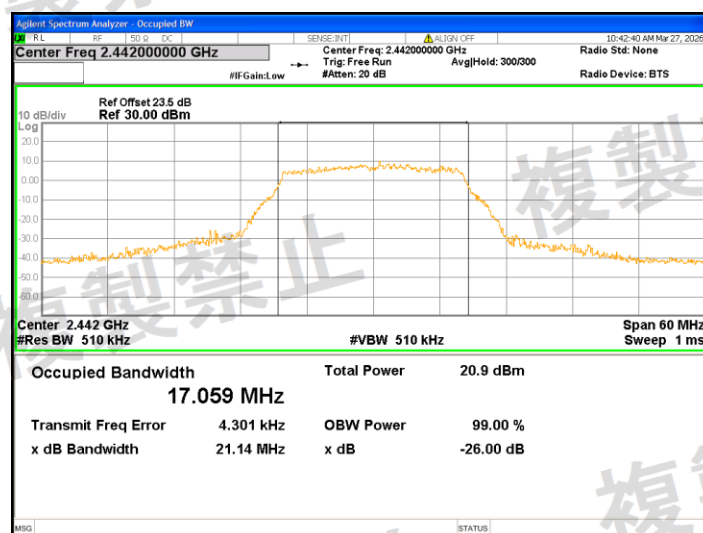
Chain1 : Occupied Bandwidth @ 802.11b Mode Ch 13



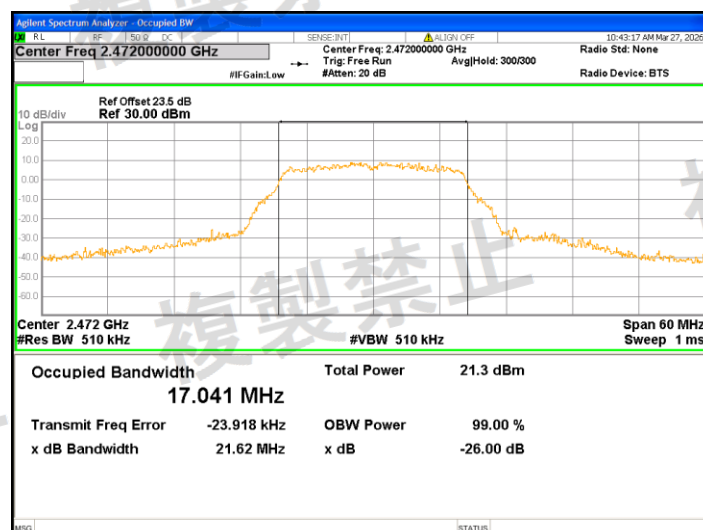
Chain1 : Occupied Bandwidth @ 802.11g Mode Ch 1



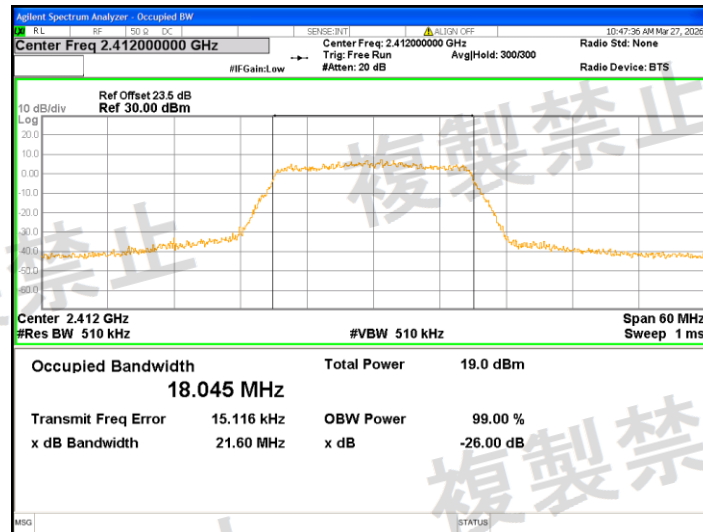
Chain1 : Occupied Bandwidth @ 802.11g Mode Ch 7



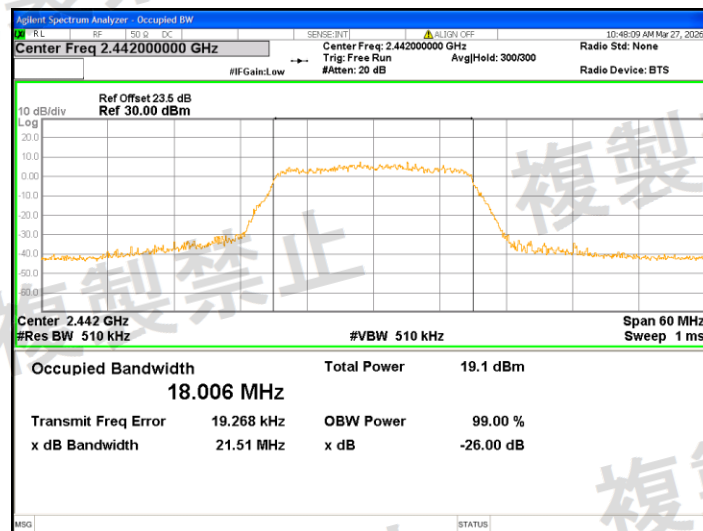
Chain1 : Occupied Bandwidth @ 802.11g Mode Ch 13



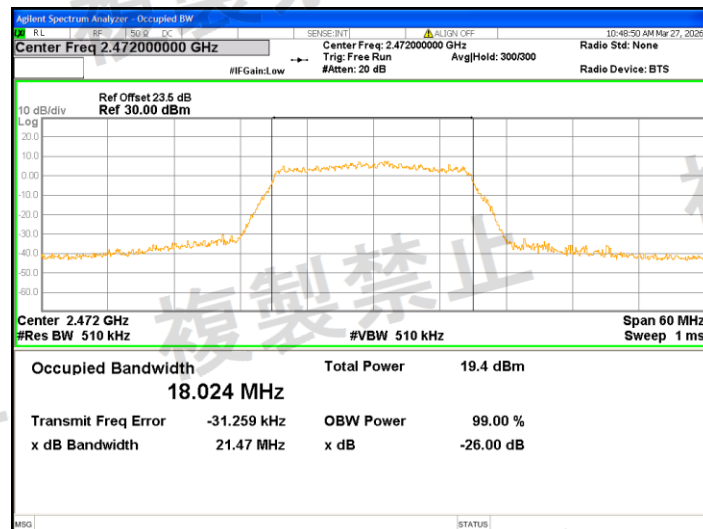
Chain1 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 1



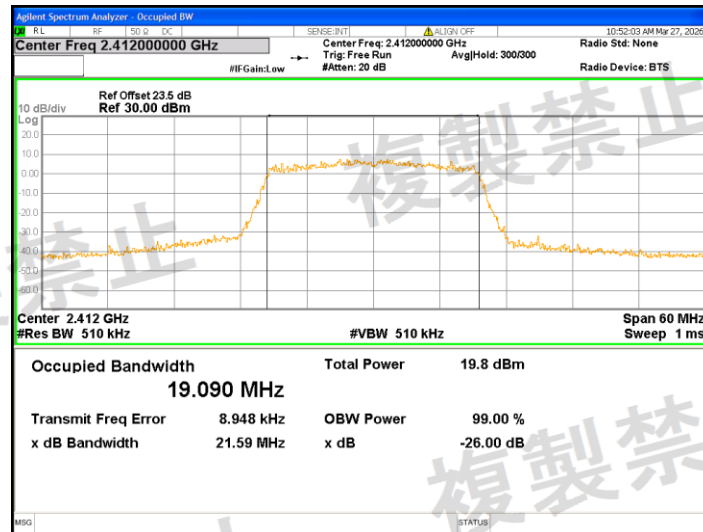
Chain1 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 7



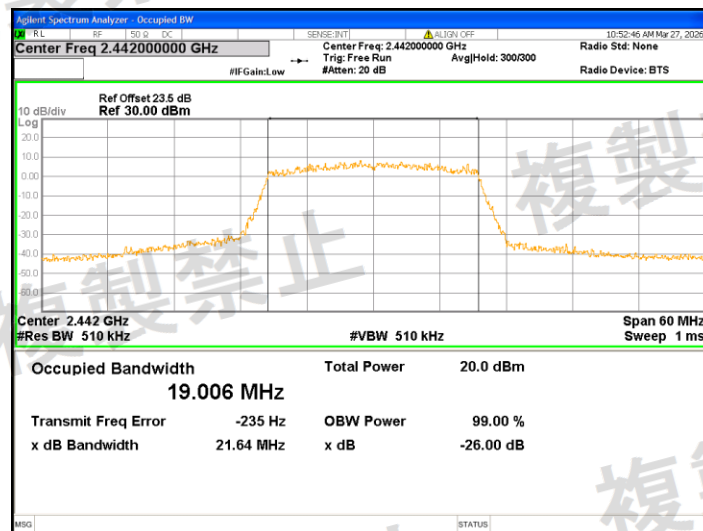
Chain1 : Occupied Bandwidth @ 802.11n(HT20) Mode Ch 13



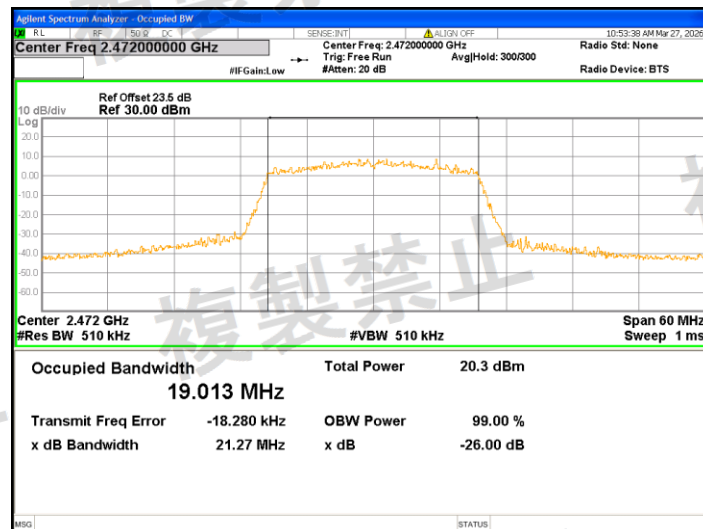
Chain1 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 1



Chain1 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 7



Chain1 : Occupied Bandwidth @ 802.11ax(HE20) Mode Ch 13



10. Spread Spectrum Bandwidth

10.1 Limit Spread Spectrum Bandwidth

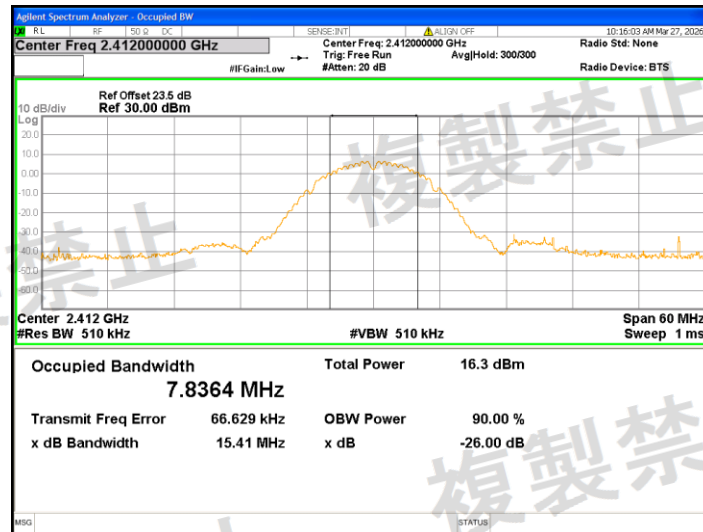
≥ 500kHz

10.2 Test Result for Spreading Factor

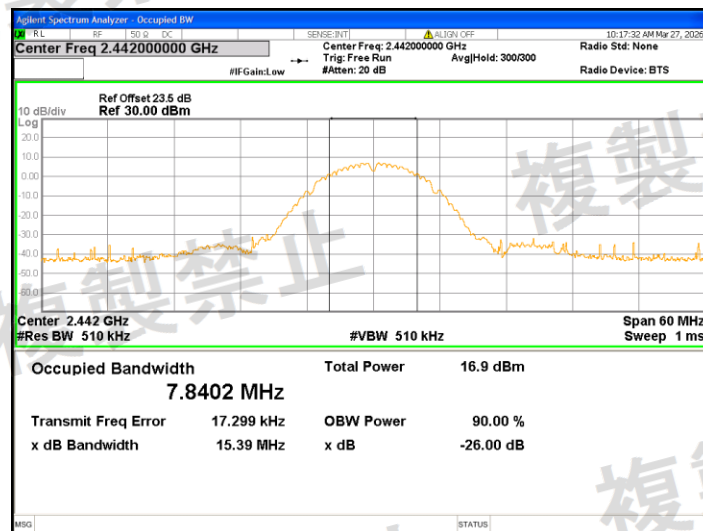
Date	2026/03/27
Temperature (°C)	23
Humidity (%)	62

Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 0	
			Measure Value (MHz)	Limit (kHz)
802.11b	1	2412	7.84	≥ 500
	7	2442	7.84	≥ 500
	13	2472	7.87	≥ 500
Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 1	
			Measure Value (MHz)	Limit (kHz)
802.11b	1	2412	7.87	≥ 500
	7	2442	7.86	≥ 500
	13	2472	7.87	≥ 500

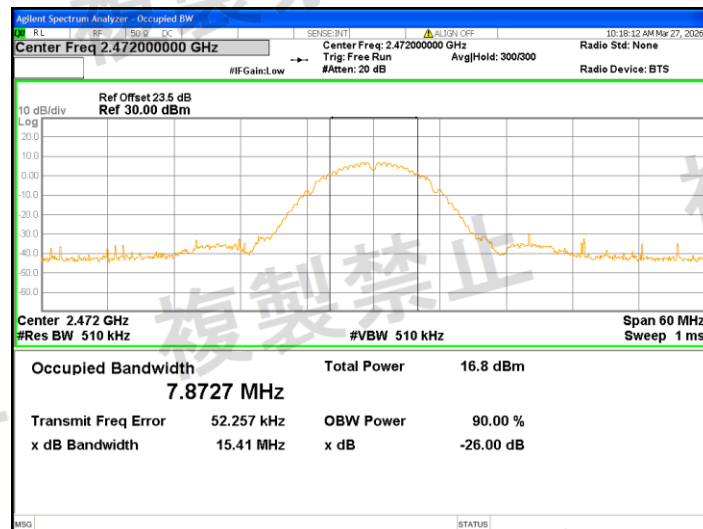
Chain0 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 1



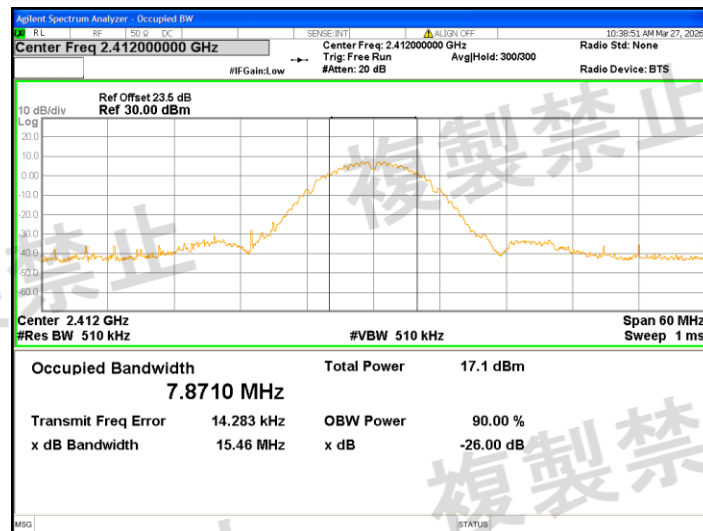
Chain0 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 7



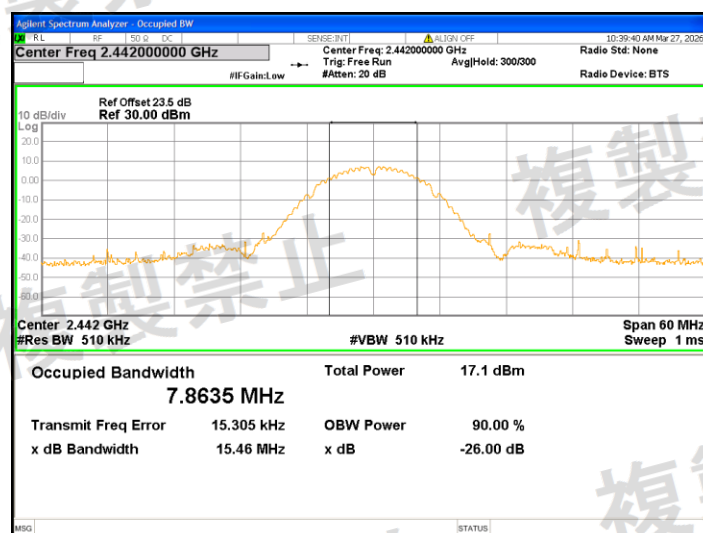
Chain0 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 13



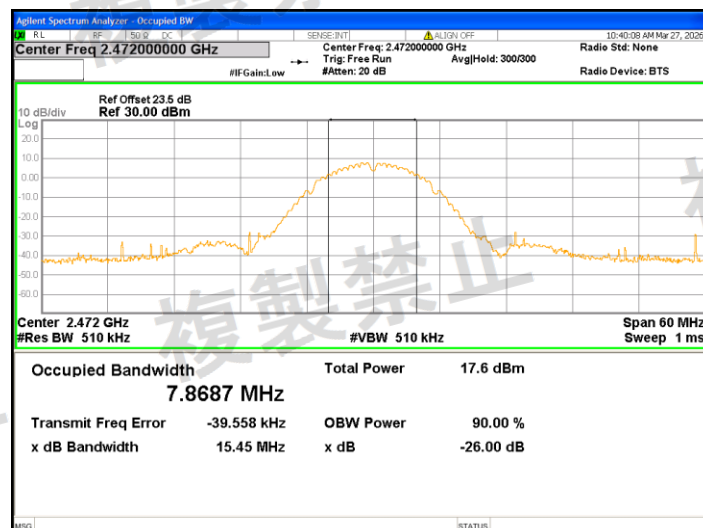
Chain1 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 1



Chain1 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 7



Chain1 : Spread Spectrum Bandwidth @ 802.11b Mode Ch 13



11. Spreading Factor

11.1 Limit Spreading Factor

 ≥ 5

11.2 Test Result for Spreading Factor

Date	2026/03/27
Temperature (°C)	23
Humidity (%)	62

Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 0	
			Spreading Factor	Limit
802.11b	1	2412	7.84	≥ 5
	7	2442	7.84	≥ 5
	13	2472	7.87	≥ 5
Test Voltage				
100Vac/ 50Hz				
Modulation	Channel	Frequency (MHz)	Chain 1	
			Spreading Factor	Limit
802.11b	1	2412	7.87	≥ 5
	7	2442	7.86	≥ 5
	13	2472	7.87	≥ 5

12. Interference Prevention Function

12.1 Test method

Test method: According to Notification No. 88 of MIC, 2004, Annex 43

12.2 Test Result for Interference Prevention Function

Date	2026/03/27
Temperature (°C)	23
Humidity (%)	62

Test Voltage		
DC 3.3V		
Mode	MAC Address	Result
Normal link	40:D9:5A:5F:61:B8	Good

Appendix A: Test Equipment

Test Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date	Calibration Body	Calibration Method
Signal Analyzer	R&S	FSV40	101532	2025/06/11	2026/06/10	ETC	c
Signal Analyzer	Agilent	N9030A	MY51380492	2026/01/20	2027/01/19	ETC	c
Power Meter	Anritsu	ML2495A	0844001	2025/11/28	2026/11/27	ETC	c
Power Sensor	Anritsu	MA2491A	031543	2025/11/28	2026/11/27	ITRI	c
20dB Attenuator	PE	PE7001-20	N/A	2025/05/22	2026/05/21	Intertek	c

Calibration Method:

- 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)
- Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- 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)
- Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)