

MIC Radio Test Report

Report No.: AGC01110241015TR02A

PRODUCT DESIGNATION : soundcore Q20i, soundcore Q21i NC
BRAND NAME : soundcore
MODEL NAME : A3004
APPLICANT : Anker Japan Co., Ltd.
DATE OF ISSUE : Sep. 08, 2025
STANDARD(S) : Article 2 Paragraph 1 Item 19 of the Certification,
Article 49.20 of Ordinance Regulating Radio Equipment
MIC Notice No.88 Appendix No.43
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2025	Valid	Initial Release

Note: The original test report AGC01110241015TR02 (dated Nov. 01, 2024 and tested from Oct. 14, 2024 to Nov. 01, 2024) was modified on Sep. 08, 2025, including the following changes and additions:

- Replaced the battery, see below for details:

Original:

Battery Information	Model: 803035 Rated Voltage & Cap.: 3.7V, 800mAh, 2.96Wh Manufacturer name: Dong Guan Perfect Amperex Technology Limited
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Updated:

Battery Information	Model: 703035 Rated Voltage & Cap.: 3.7V, 800mAh, 2.96Wh Manufacturer name: XINYU GANFENG ELECTRONICS CO., LTD.
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- The charging IC U2 has been changed from XT4077 to ICP3181A.
- The segmented charging resistor R10 has been changed from 2.4KΩ to 5.6KΩ, and R2 has been changed from 4.3KΩ to 1.8KΩ.
- The high-low temperature monitoring resistor R11 has been changed from 26.1K to 133K, and R12 has been changed from 9.76KΩ to 5.62KΩ.
- Changed the software version of device (Its change does not affect the test results).

For the above described change(s) the following tests was considered to be necessary:

Clause	Testing
Article 7	Unwanted Emission Strength
Article 24	Secondary Radiated Emission Strength

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1. General Information

Applicant	Anker Japan Co., Ltd.
Address	9F Waterras Tower, 2-101, Kanda-Awajicho, Chiyoda-ku, Tokyo, Japan
Manufacturer	Anker Innovations Limited
Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Factory	Dongguan Senmai Acoustic Technology Co., LTD
Address	No.5 Shuiling Road, Zhouwu Industrial Zone, Dongcheng District, Dongguan City, Guangdong Province, China.
Product Designation	soundcore Q20i, soundcore Q21i NC
Brand Name	soundcore
Test Model	A3004
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Aug. 19, 2025
Date of Test	Oct. 14, 2024~ Nov. 01, 2024 and Aug. 19, 2025~ Sep. 08, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-MIC-BR_EDR-V1

Note: The test results of this report relate only to the tested sample identified in this report.

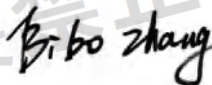
Prepared By



CiCi Li
(Project Engineer)

Sep. 08, 2025

Reviewed By



Bibo Zhang
(Reviewer)

Sep. 08, 2025

Approved By



Angela Li
(Authorized Officer)

Sep. 08, 2025

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2. Product Information

2.1 Product Technical Description

Equipment Type	Low Power Data Communication System in the 2.4GHz band
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.3
Hardware Version	V04
Software Version	V5.06
Modulation Type	BR ☒ GFSK:1Mbps;
	EDR ☒ $\pi/4$ -DQPSK:2Mbps ☒ 8DPSK:3Mbps
Number of channels	79 Channels
Channel Separation	1 MHz
Rated Antenna Power	0.1mW/MHz
Antenna Designation	PCB Antenna
Antenna Gain	2.51dBi
Test Channel	2.402GHz (CH00) 2.441GHz (CH39) 2.480GHz (CH78)
Test Voltage	HV: (4.07V) High Voltage + 10% of Normal Voltage
	LV: (3.33V) Low Voltage - 10% of Normal Voltage
	NV: (3.7V) Normal Voltage

Note:

1. The EUT has single chip with one antenna and the output of the antenna feeder is 50 Ohm.
2. The EUT is a 2.4GHz single-chip controller according to MIC Notice No.88 Annex 43.
3. Please refer to Appendix II for the photographs of the EUT. For more details, please refer to the User's manual of the EUT.

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2.2 Test Frequency List

Channel No.	Frequency (GHz)	Channel No.	Frequency (GHz)	Channel No.	Frequency (GHz)
00	2.402	28	2.430	56	2.458
01	2.403	29	2.431	57	2.459
02	2.404	30	2.432	58	2.460
03	2.405	31	2.433	59	2.461
04	2.406	32	2.434	60	2.462
05	2.407	33	2.435	61	2.463
06	2.408	34	2.436	62	2.464
07	2.409	35	2.437	63	2.465
08	2.410	36	2.438	64	2.466
09	2.411	37	2.439	65	2.467
10	2.412	38	2.440	66	2.468
11	2.413	39	2.441	67	2.469
12	2.414	40	2.442	68	2.470
13	2.415	41	2.443	69	2.471
14	2.416	42	2.444	70	2.472
15	2.417	43	2.445	71	2.473
16	2.418	44	2.446	72	2.474
17	2.419	45	2.447	73	2.475
18	2.420	46	2.448	74	2.476
19	2.421	47	2.449	75	2.477
20	2.422	48	2.450	76	2.478
21	2.423	49	2.451	77	2.479
22	2.424	50	2.452	78	2.480
23	2.425	51	2.453		
24	2.426	52	2.454		
25	2.427	53	2.455		
26	2.428	54	2.456		
27	2.429	55	2.457		

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2.3 Test Items and The Results

Article 2 Paragraph 1 Item 19 of the Certification Measurement Project		
Ordinance Regulating Radio Equipment	Description of Test	Result
Article 5	Frequency Tolerance	Complies
Article 6	Occupied Bandwidth	Complies
Article 7	Unwanted Emission Strength	Complies
Article 49.20 & Article 14	Antenna Power Error	Complies
Article 49.20	EIRP Antenna Power	Complies
Article 24	Secondary Radiated Emission Strength	Complies
Article 9.4	Interference Prevention Function	Complies
Article 49.20	Dwell Time	Complies
Article 49.20	Carrier Sensing Function (1)	Not applicable (See Note 1)
Article 49.20	Carrier Sensing Function (2)	Not applicable (See Note 1)
Article 49.20	Transmission Antenna Absolute Gain	Complies
Article 49.20	Half Power Beam Angle (Radiation angle of antenna)	Not applicable (See Note 2)
Article 49.20	Housing Requirements	Complies

Note:

1. FHSS system equipment does not need to meet carrier sensing test.
2. It is unnecessary to testing, when a E.I.R.P. is less than 6.91dBm/MHz.

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2.4 Description of Test Modes

Test Mode	Description
Transmitter Test	
Unmod_2402	Transmitting mode without modulation (Channel: 00)
Unmod_2441	Transmitting mode without modulation (Channel: 39)
Unmod_2480	Transmitting mode without modulation (Channel: 78)
BR_2402_1Mbps	Bluetooth BR Transmitting mode (Channel: 00, Rate: 1Mbps)
BR_2441_1Mbps	Bluetooth BR Transmitting mode (Channel: 39, Rate: 1Mbps)
BR_2480_1Mbps	Bluetooth BR Transmitting mode (Channel: 78, Rate: 1Mbps)
EDR_2402_2Mbps	Bluetooth EDR Transmitting mode (Channel: 00, Rate: 2Mbps)
EDR_2441_2Mbps	Bluetooth EDR Transmitting mode (Channel: 39, Rate: 2Mbps)
EDR_2480_2Mbps	Bluetooth EDR Transmitting mode (Channel: 78, Rate: 2Mbps)
EDR_2402_3Mbps	Bluetooth EDR Transmitting mode (Channel: 00, Rate: 3Mbps)
EDR_2441_3Mbps	Bluetooth EDR Transmitting mode (Channel: 39, Rate: 3Mbps)
EDR_2480_3Mbps	Bluetooth EDR Transmitting mode (Channel: 78, Rate: 3Mbps)
BR_HOP_1Mbps	Bluetooth BR Transmitting mode (Hopping, Rate: 1Mbps)
EDR_HOP_2Mbps	Bluetooth EDR Transmitting mode (Hopping, Rate: 2Mbps)
EDR_HOP_3Mbps	Bluetooth EDR Transmitting mode (Hopping, Rate: 3Mbps)
Receiver Test	
BR_2402_1Mbps	Bluetooth BR Receiving mode (Channel: 00, Rate: 1Mbps)
BR_2441_1Mbps	Bluetooth BR Receiving mode (Channel: 39, Rate: 1Mbps)
BR_2480_1Mbps	Bluetooth BR Receiving mode (Channel: 78, Rate: 1Mbps)
EDR_2402_2Mbps	Bluetooth EDR Receiving mode (Channel: 00, Rate: 2Mbps)
EDR_2441_2Mbps	Bluetooth EDR Receiving mode (Channel: 39, Rate: 2Mbps)
EDR_2480_2Mbps	Bluetooth EDR Receiving mode (Channel: 78, Rate: 2Mbps)
EDR_2402_3Mbps	Bluetooth EDR Receiving mode (Channel: 00, Rate: 3Mbps)
EDR_2441_3Mbps	Bluetooth EDR Receiving mode (Channel: 39, Rate: 3Mbps)
EDR_2480_3Mbps	Bluetooth EDR Receiving mode (Channel: 78, Rate: 3Mbps)

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3. Setup of Equipment Under Test

3.1 Setup Configuration of EUT

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

3.2 Support Equipment

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?				
Yes				
Item	Equipment	Trade Name	Model No.	Specification
1	Control Box	RISYM	USB-TTL	N/A

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4. Test Environment

4.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

VCCI Membership No.: 4112

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered in accordance with VCCI Council Rules.

VCCI Registration No. C-20098 for conducted emissions at AC main power ports

VCCI Registration No. T-20102 for conducted emissions at telecommunication ports

VCCI Registration No. R-20136 for radiated emissions below 1GHz

VCCI Registration No. G-20132 for radiated emissions above 1GHz

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4.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	45 % - 85 %
Pressure range (kPa)	86 - 106

4.4 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Radio Frequency	$U_c = \pm 1 \times 10^{-7}$
Uncertainty of Total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of Total RF Power, Radiated	$U_c = \pm 1.1 \text{ dB}$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted (30MHz-1GHz)	$U_c = \pm 2.7 \text{ dB}$
Uncertainty of Spurious Emissions, Conducted (1GHz-40GHz)	$U_c = \pm 3.2 \text{ dB}$
Uncertainty of Dwell Time	$U_c = \pm 2\%$

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4.5 List of Equipment Used

● Measuring Equipment Calibration Information							
Used	Calibration Company Abbreviation		Full Name of calibration company				
☐	CCIC		CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd				
☒	GRG		GRG METROLOGY & TEST GROUP CO.,LTD.				
● Calibration Information (Article 24-2, Paragraph 4 of the Radio Act)							
☐	a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act						
☒	(c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act						
☐	(d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above						
● RF Conducted Test System(Date of Test: Oct. 14, 2024~ Nov. 01, 2024)							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☐	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23
☒	AGC-ER-E041	Spectrum Analyzer	Agilent	N9020A	W1312-60196	2024-05-24	2025-05-23
☒	AGC-BQ-E102	Power Meter	R&S	NRP-Z21	104604	2024-05-24	2025-05-23
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08
☐	AGC-ER-E079	Wireless Connectivity Tester	R&S	CMW270	101933	2024-05-24	2025-05-23
☐	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2024-02-01	2025-01-31
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-E017	temperature and humidity recorder	testo	608-H1	N/A	2024-05-29	2026-05-28
☒	AGC-ER-E091	DC Power Supply	AIDKESI	IT6720	800103030787810080	2024-03-28	2026-03-27
● RF Conducted Test System(Date of Test: Aug. 19, 2025~ Sep. 08, 2025)							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☐	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025-05-08	2026-05-07
☒	AGC-ER-E041	Spectrum Analyzer	Agilent	N9020A	W1312-60196	2025-05-16	2026-05-15
☒	AGC-BQ-E102	Power Meter	R&S	NRP-Z21	104604	2025-05-16	2026-05-15
☒	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2024-09-21	2025-09-20
☐	AGC-ER-E079	Wireless Connectivity Tester	R&S	CMW270	101933	2025-05-08	2026-05-07
☐	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2025-07-24	2026-07-23

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☐	AGC-ER-E059	Signal Generator	Agilent	N5182B	MY53050647	2025-01-14	2026-01-13
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A
☒	AGC-ER-E017	temperature and humidity recorder	testo	608-H1	N/A	2025-05-29	2026-05-28
☒	AGC-ER-E091	DC Power Supply	AIDEKESI	IT6720	800103030787810080	2025-03-28	2026-03-27

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5. Measurement Results of Article 2 Paragraph 1 Item 19

5.1 Frequency Tolerance Measurement

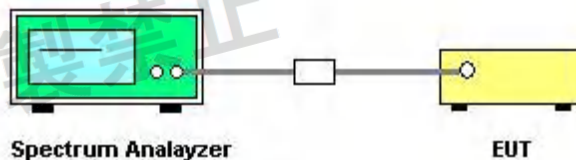
Test Limit

Test Item	Limits
Frequency Tolerance (2400~2483.5MHz)	$-50\text{ppm} \leq \text{Frequency Error} \leq 50\text{ppm}$

Test Procedure

1. Frequency accuracy of SA shall be less than 10% of limits tolerance (5ppm)
2. Setting of SA is following as: RB: 10kHz / VB: 30kHz / SPAN: 0.5MHz
3. Center Frequency: The center frequency of testing for EUT
4. Sweep time=Auto
5. Sweep mode=Continuous sweep
6. Detect mode=Positive peak
7. EUT have transmitted absence of modulation signal and fixed channelize. if is using the mark cursor to mark the peak frequency value, f_c is declaring of channel frequency.
8. Then the frequency tolerance formula is $(f-f_c)/f_c \times 10^6 \text{ppm}$ and the limit is less than $\pm 50\text{ppm}$

Test Setup



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Test Result

Test Temperature	26°C	Relative Humidity	40%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-10-25		

Test Data of Frequency Tolerance								
Test Mode	Measure Frequency (MHz)			Frequency Error (ppm)			Limit (ppm)	P/F
	NV	LV	HV	NV	LV	HV		
Unmod_2402	2402.0273	2402.0273	2402.0278	11.36	11.36	11.56	±50	Pass
Unmod_2441	2441.0278	2441.0278	2441.0278	11.38	11.38	11.38	±50	Pass
Unmod_2480	2480.0283	2480.0283	2480.0283	11.40	11.40	11.40	±50	Pass

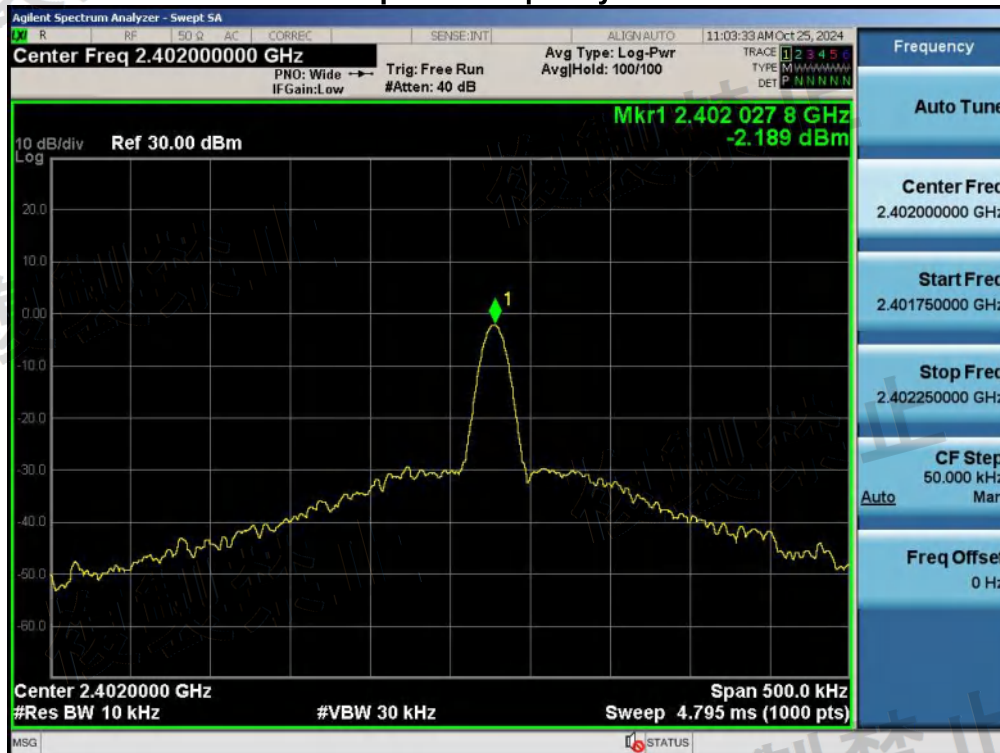
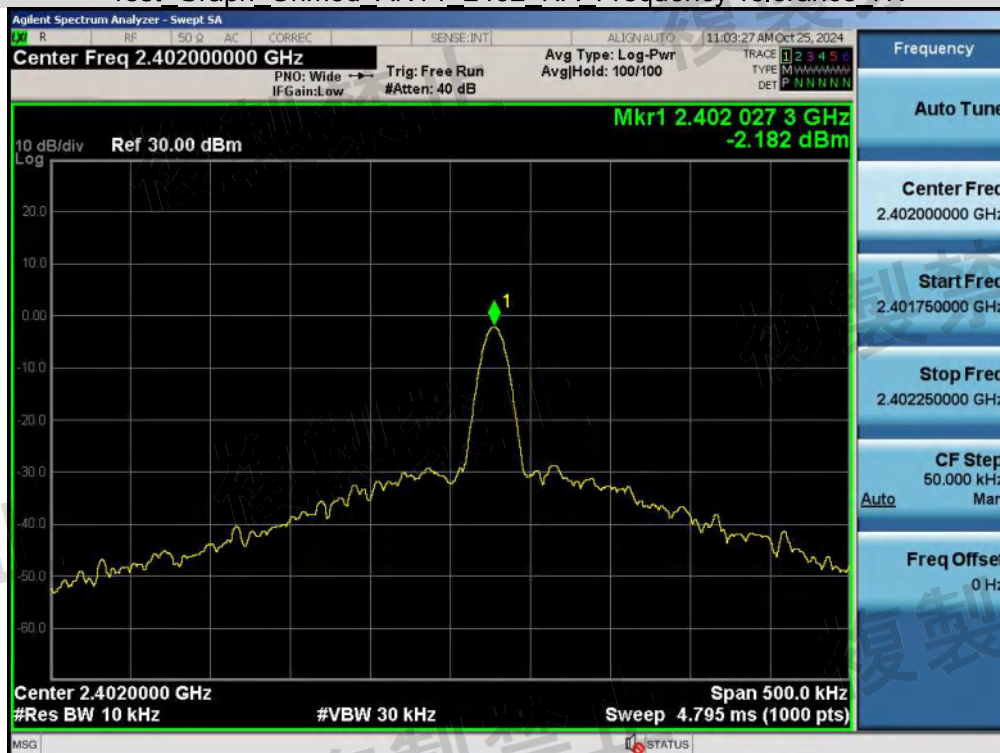
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Test Graphs of Frequency Tolerance

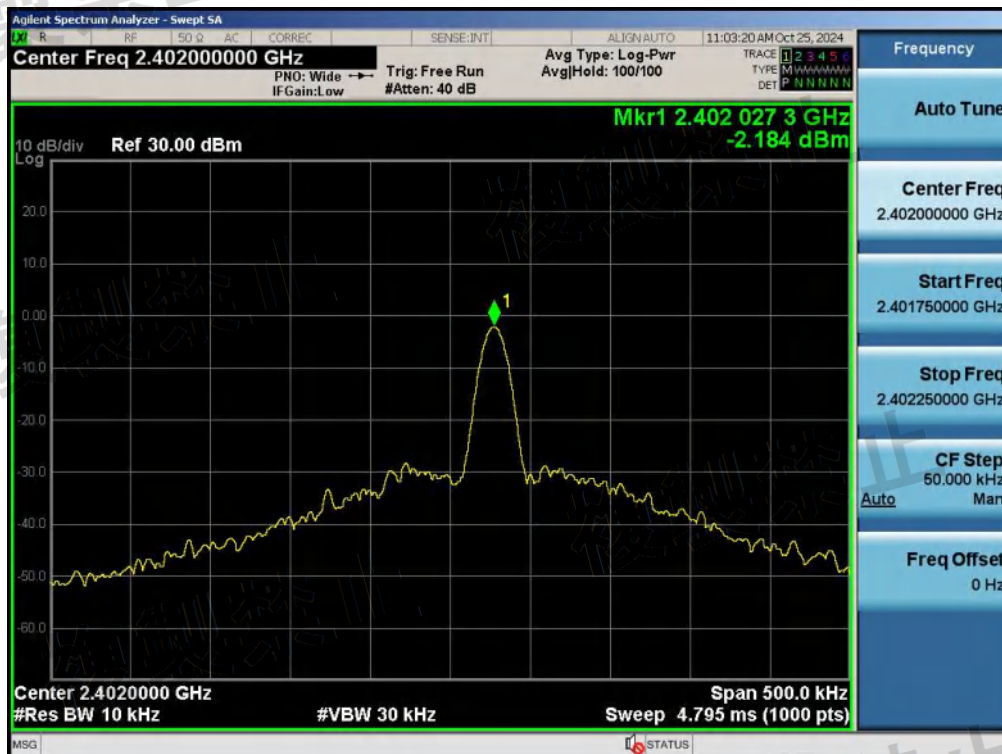


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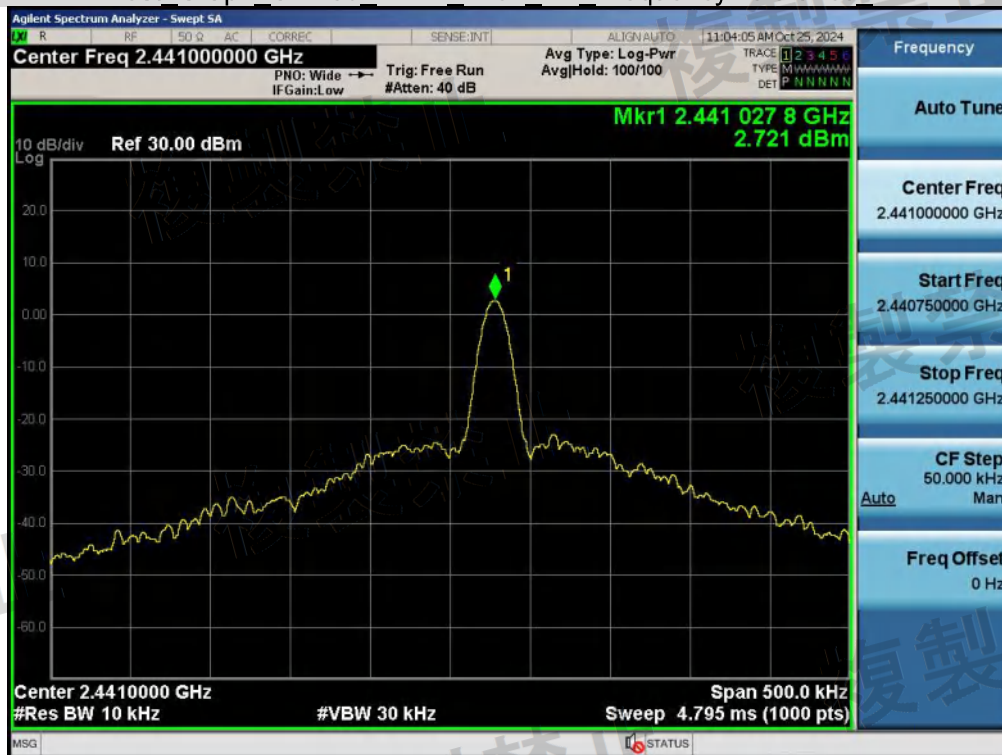
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Test_Graph_Unmod_ANT1_2402_NA_Frequency Tolerance_NV



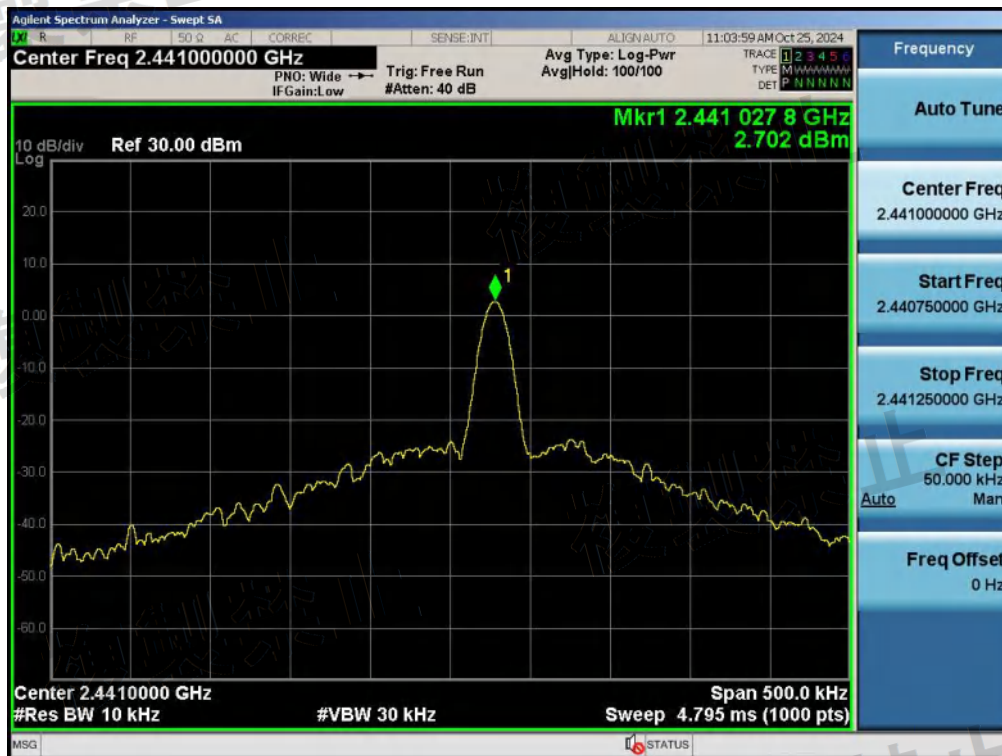
Test_Graph_Unmod_ANT1_2441_NA_Frequency Tolerance_HV

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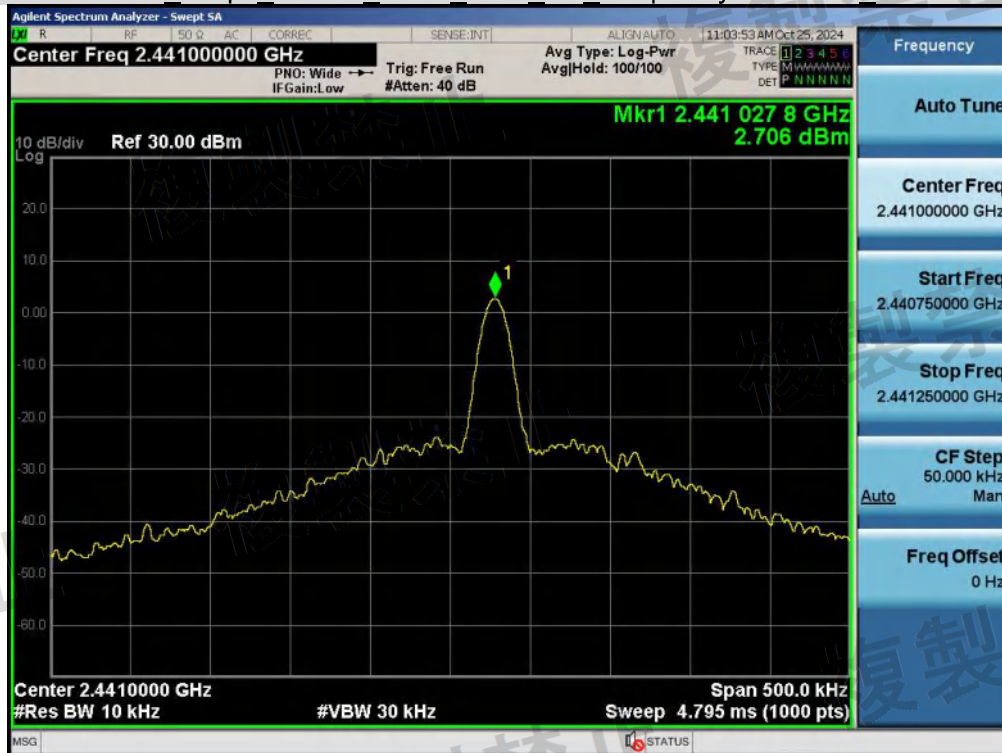
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Test_Graph_Unmod_ANT1_2441_NA_Frequency Tolerance_LV



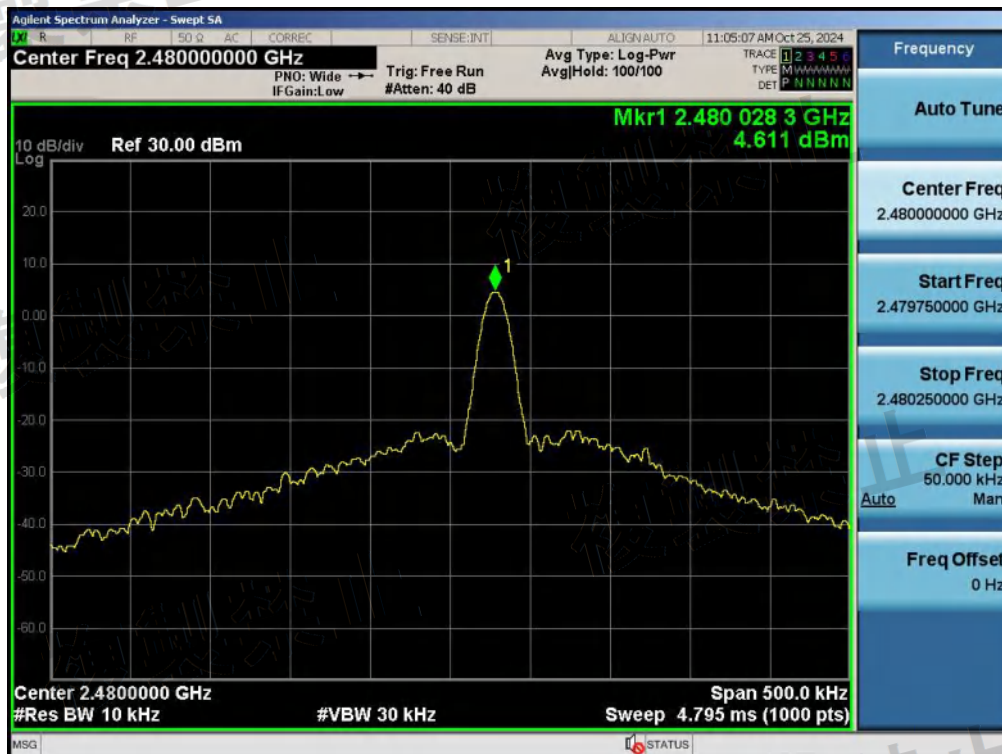
Test_Graph_Unmod_ANT1_2441_NA_Frequency Tolerance_NV

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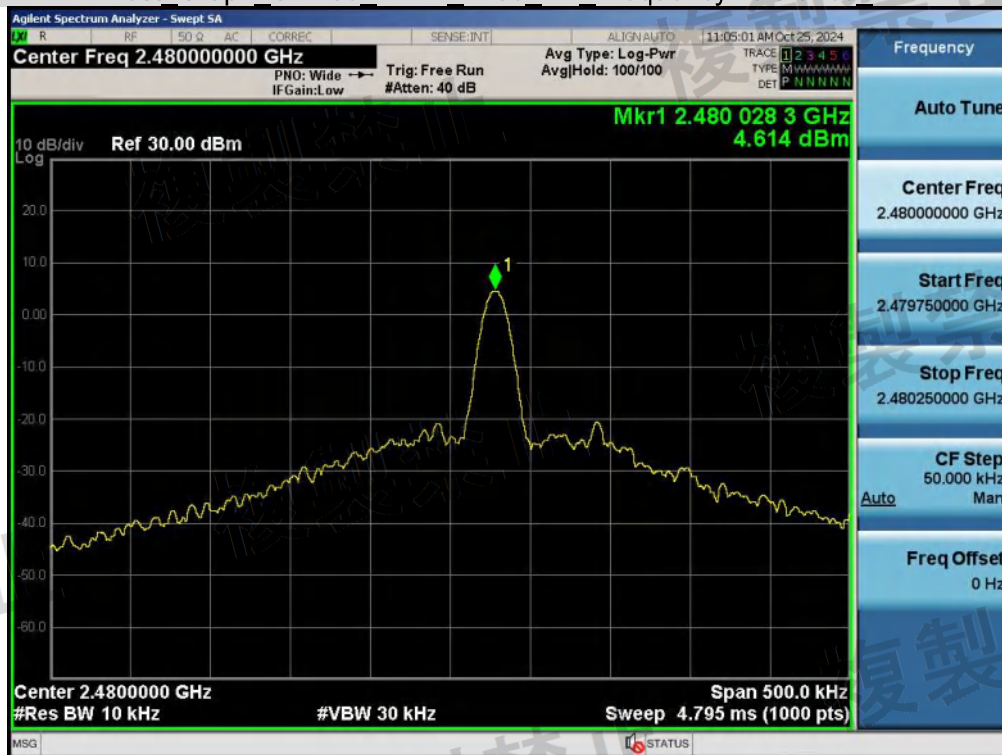
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Test Graph Unmod ANT1 2480 NA Frequency Tolerance HV



Test_Graph_Unmod_ANT1_2480_NA_Frequency Tolerance_LV

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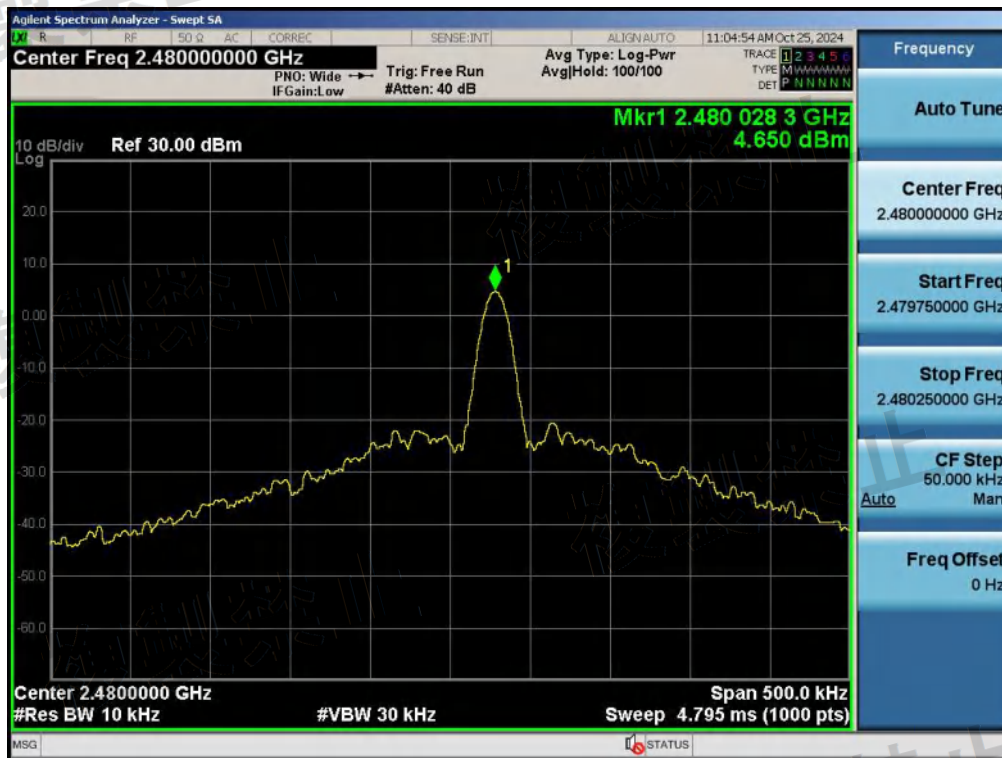
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Test_Graph_Unmod_ANT1_2480_NA_Frequency Tolerance_NV

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5.2 Occupied Bandwidth Measurement

Test Limit

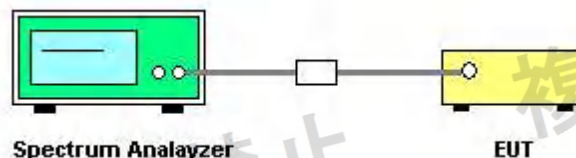
Test Item	Limits
Occupied Bandwidth	FH < 83.5MHz; 26MHz $\leq$ OFDM 40M system $\leq$ 40MHz; OFDM 20M system, DS, Others $\leq$ 26MHz

Test Procedure

The device under test is connected to the spectrum analyzer through a radio frequency cable and the settings are as follows:

1. EUT have Continuous maximum power of hopping mode (For FHSS Device).
2. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. SA set to 90% of occupied bandwidth to measure spreading bandwidth.
4. RBW=300kHz
5. VBW=300kHz
6. SPAN=100MHz
7. ATT: 20dB /Ref:10dBm (actual sample power adjustment is for reference only)
8. Sweep time=Auto / Sweep Mode: Continuous sweep
9. Detect mode=Positive peak
10. Trace mode=Max hold
11. Record the result for Occupied Bandwidth Measurements in report.

Test Setup



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Test Result

Test Temperature	26°C	Relative Humidity	40%
Test Pressure	101kPa	Test Engineer	Vicky Huang
Testing Time	2024-10-25		

Test Data of Occupied Bandwidth and Spreading Bandwidth								
Test Mode	Occupied Bandwidth (MHz)			Limit (MHz)	Spreading Bandwidth (MHz)			P/F
	NV	LV	HV		NV	LV	HV	
BR_HOP_1Mbps	78.087	78.069	78.084	<83.5	69.917	69.676	69.650	Pass
EDR_HOP_2Mbps	78.079	78.076	78.022	<83.5	69.664	69.369	69.364	Pass
EDR_HOP_3Mbps	78.066	78.254	78.114	<83.5	69.938	70.530	69.789	Pass

Test Data of Spreading Factor (Spreading Bandwidth/Transmission Rate)			
Test Mode	NV	LV	HV
BR_HOP_1Mbps	69.917	69.676	69.65
EDR_HOP_2Mbps	69.664	69.369	69.364
EDR_HOP_3Mbps	69.938	70.530	69.789

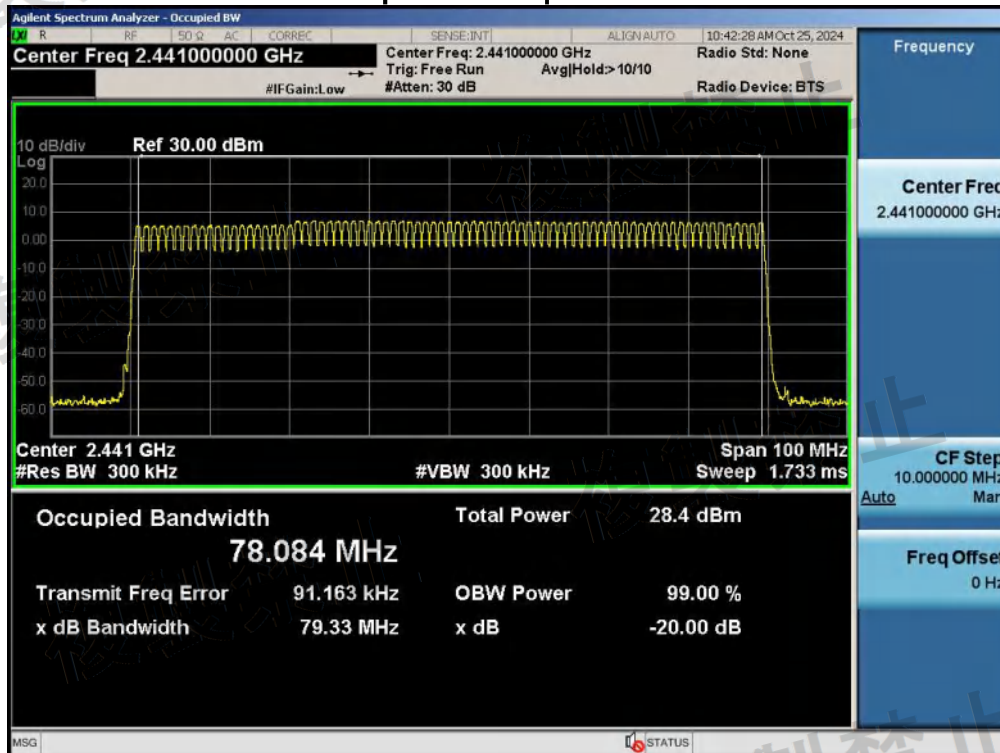
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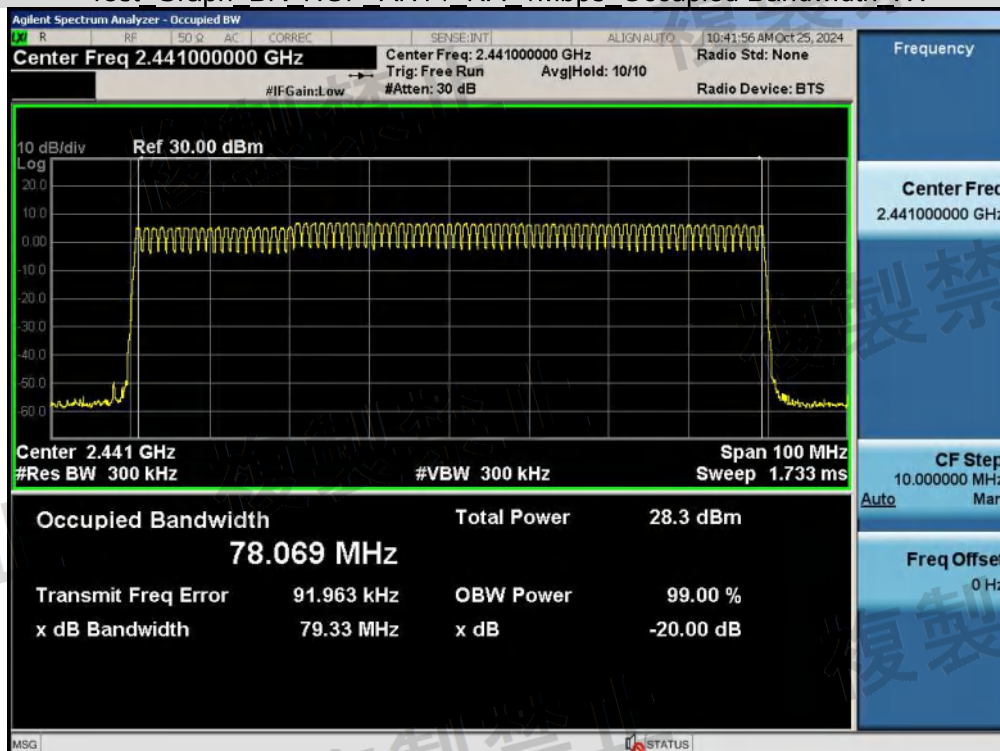
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Test Graphs of Occupied Bandwidth



Test Graph BR HOP ANT1 NA 1Mbps Occupied Bandwidth HV



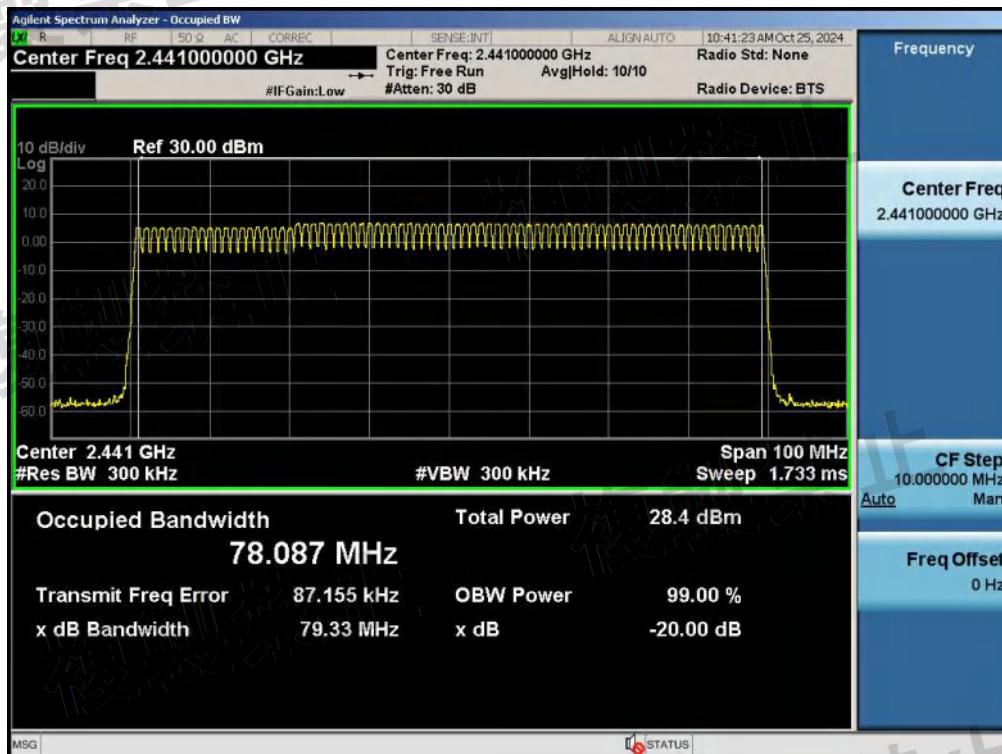
Test Graph BR HOP ANT1 NA 1Mbps Occupied Bandwidth LV

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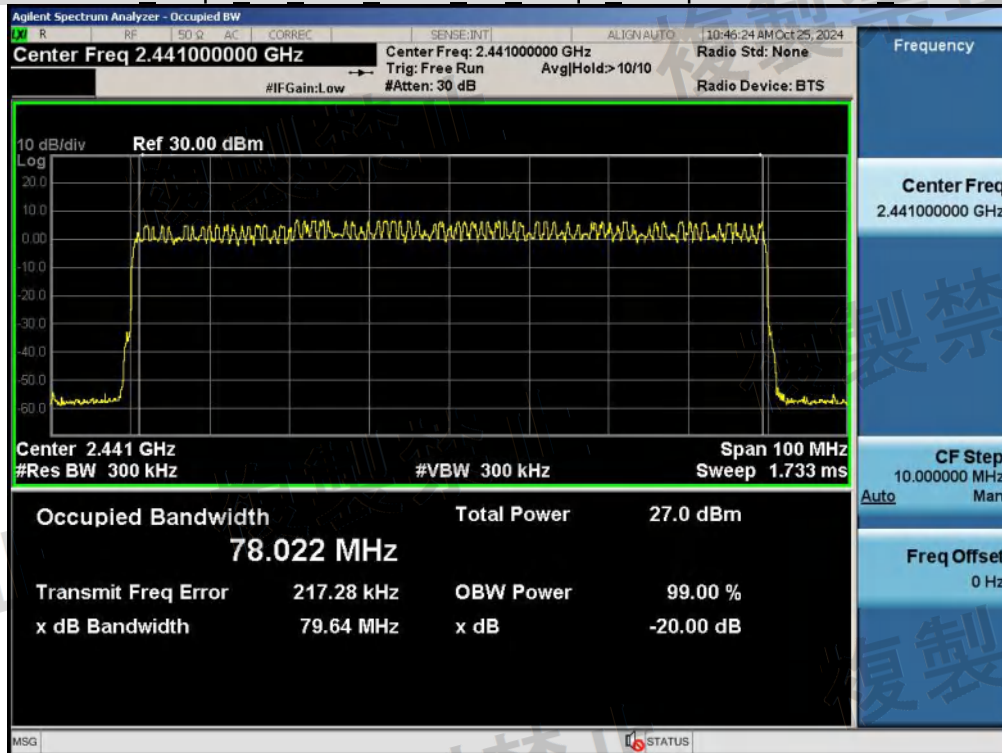
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Test Graph BR HOP ANT1 NA 1Mbps Occupied Bandwidth NV



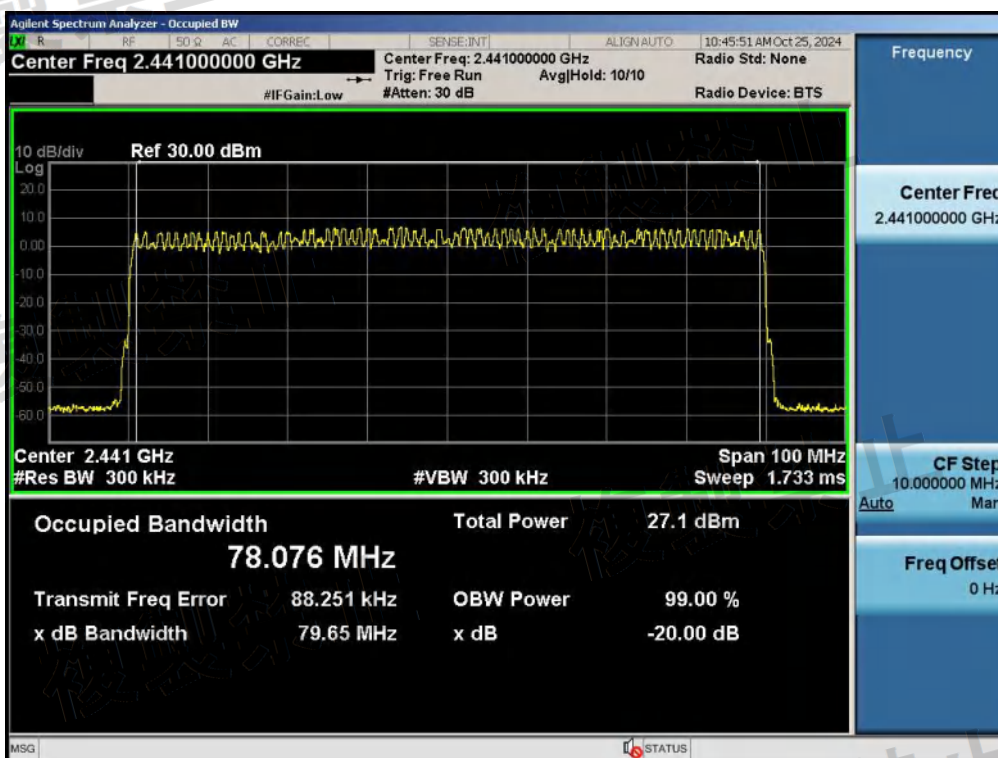
Test Graph EDR HOP ANT1 NA 2Mbps Occupied Bandwidth HV

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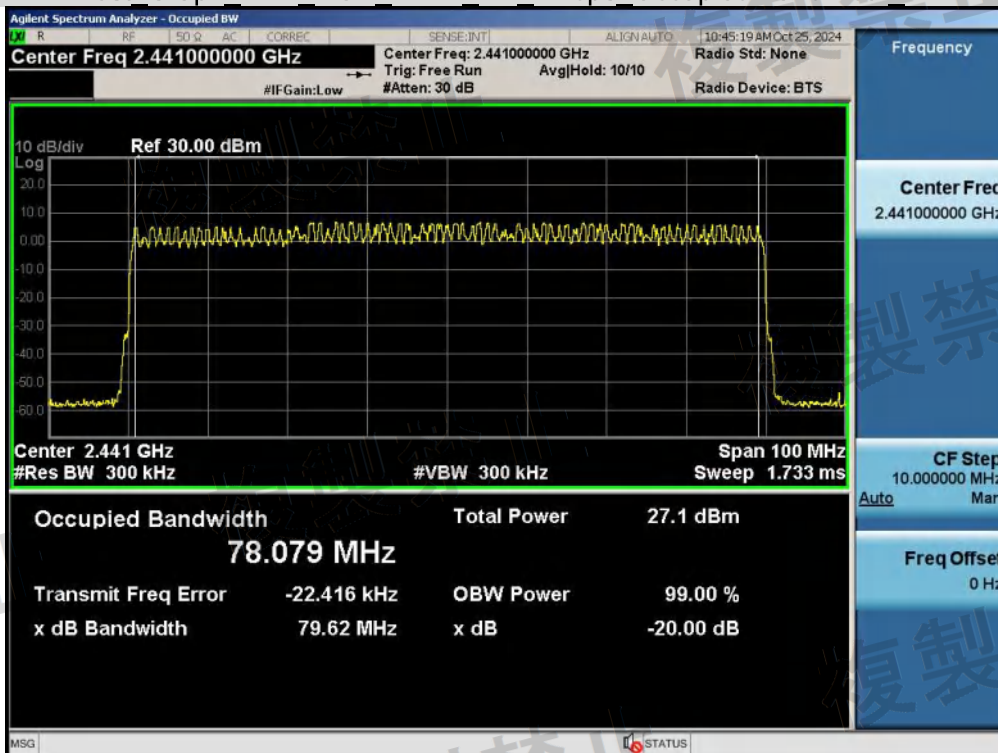
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Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Occupied Bandwidth_LV



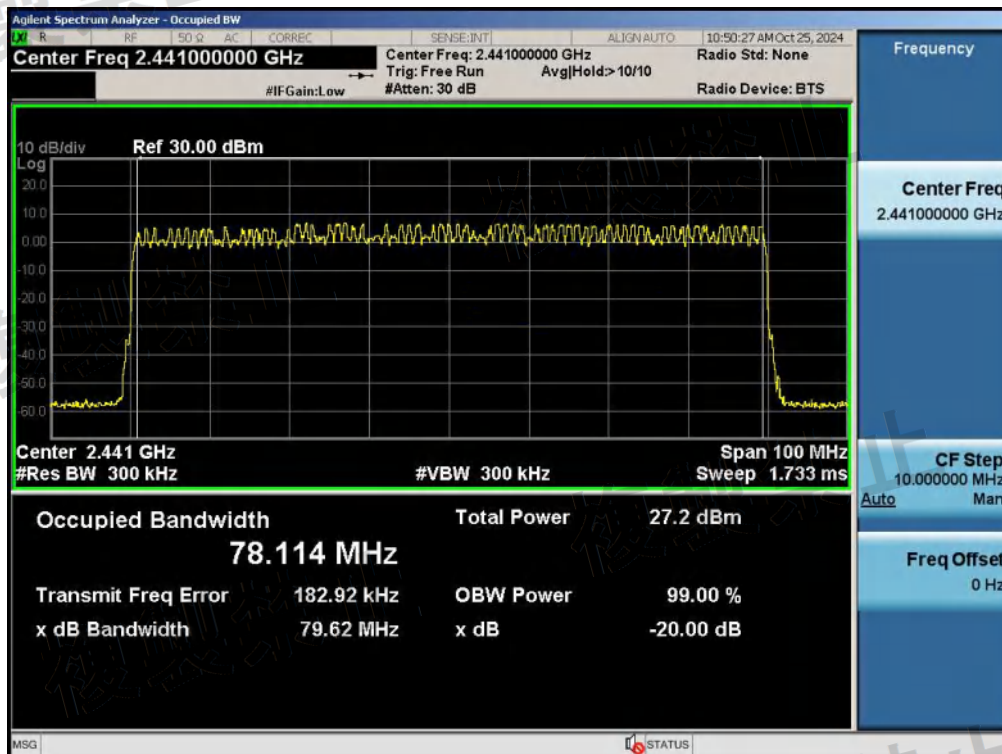
Test_Graph_EDR_HOP_ANT1_NA_2Mbps_Occupied Bandwidth_NV

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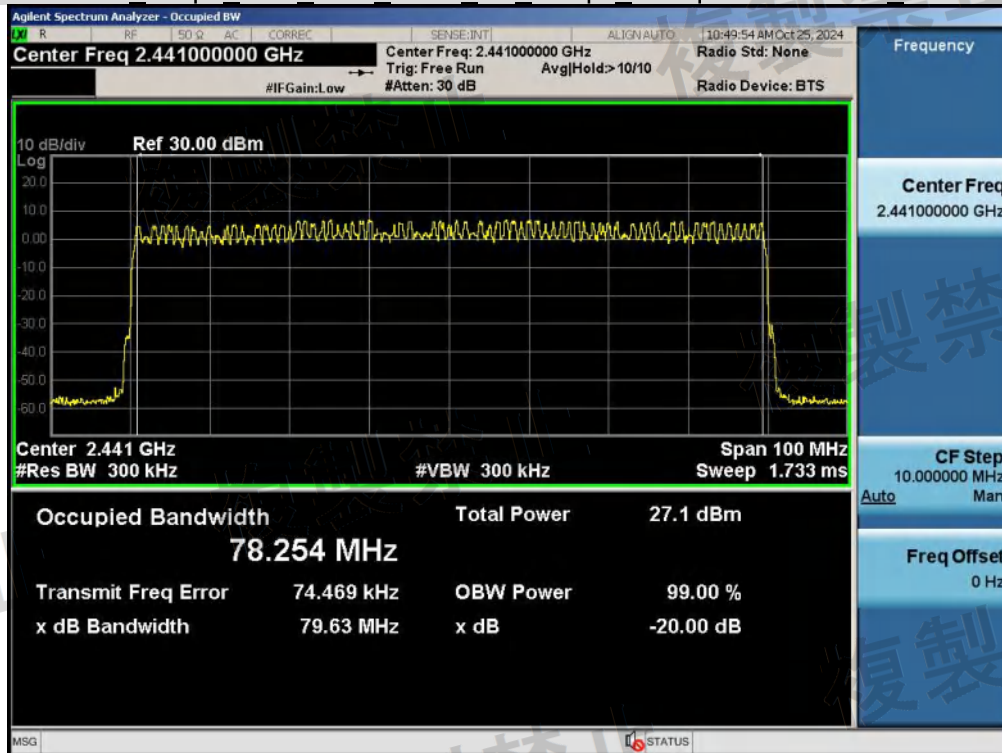
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Test Graph EDR HOP ANT1 NA 3Mbps Occupied Bandwidth_HV



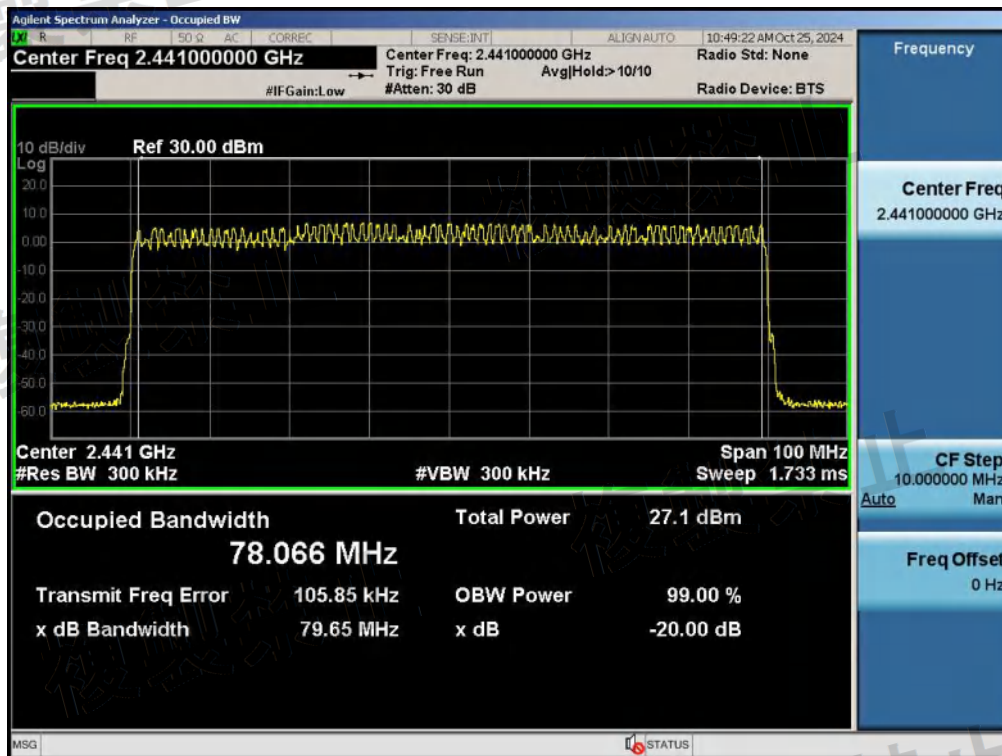
Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Occupied Bandwidth_LV

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Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Occupied Bandwidth_NV

Test Graphs of Spreading Bandwidth



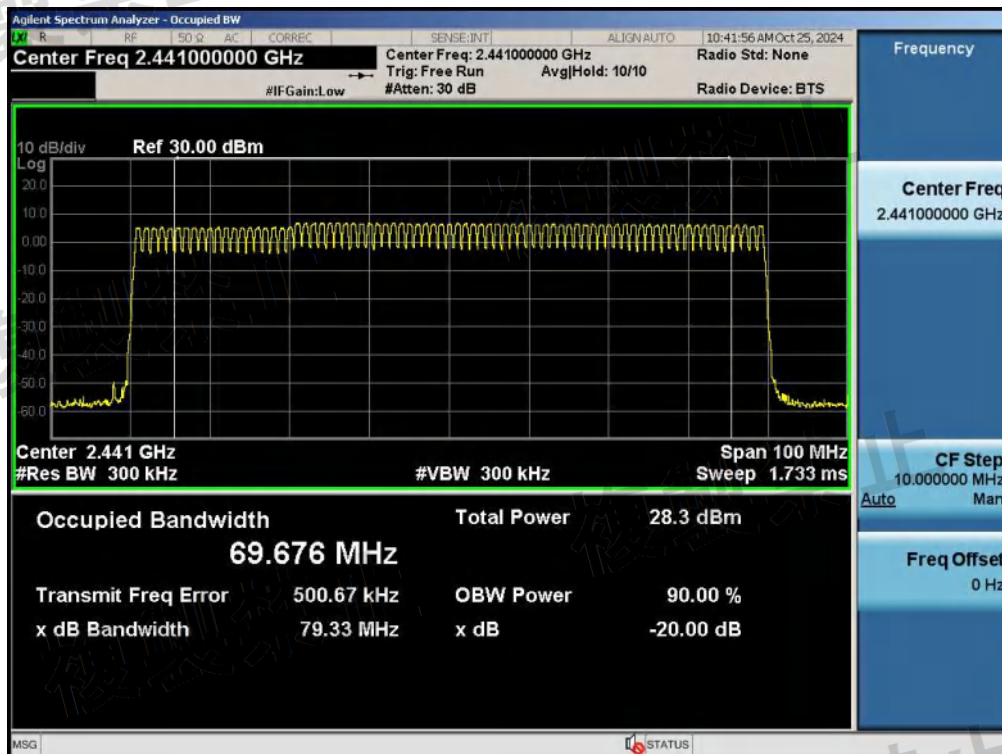
Test_Graph_BR_HOP_ANT1_NA_1Mbps_Spreading Bandwidth_HV

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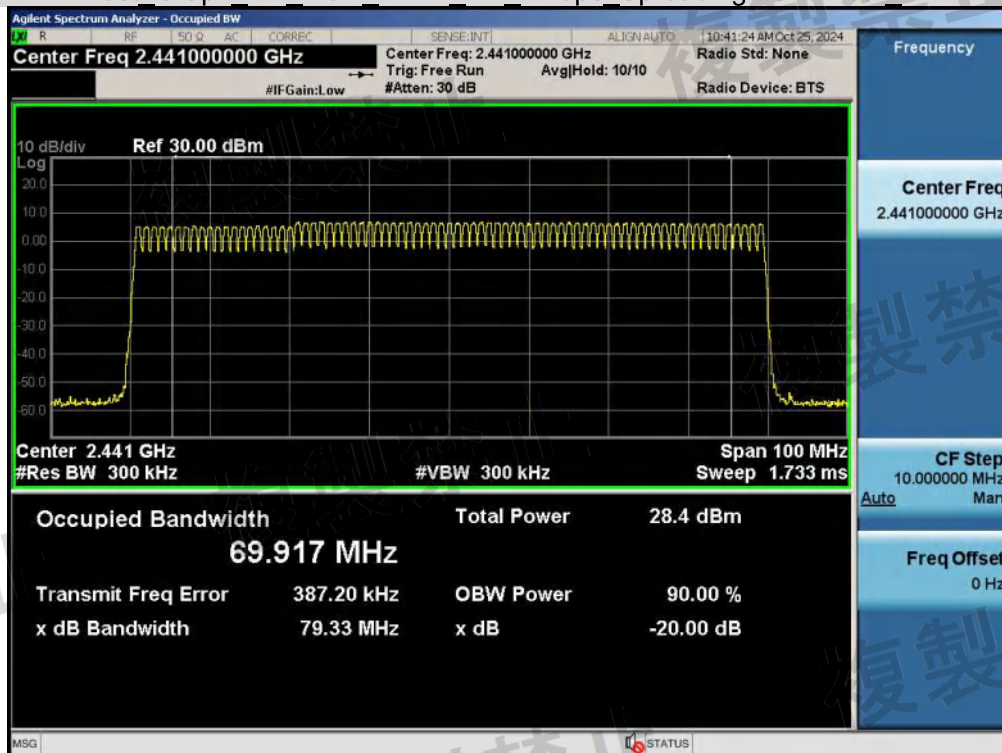
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Test Graph BR HOP ANT1 NA 1Mbps Spreading Bandwidth LV



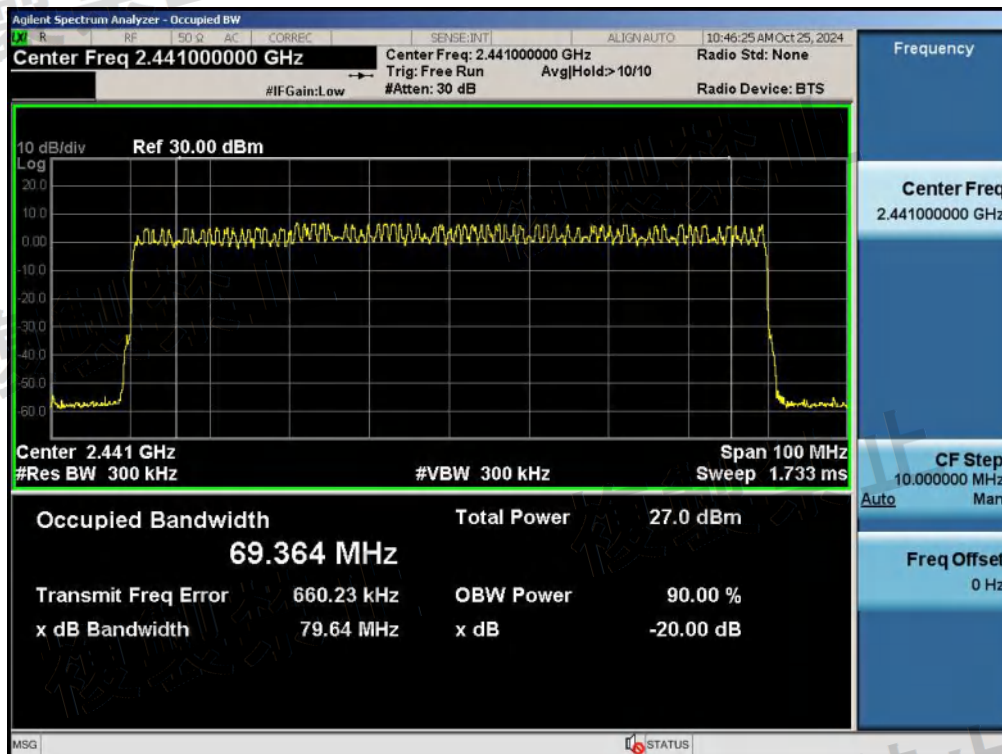
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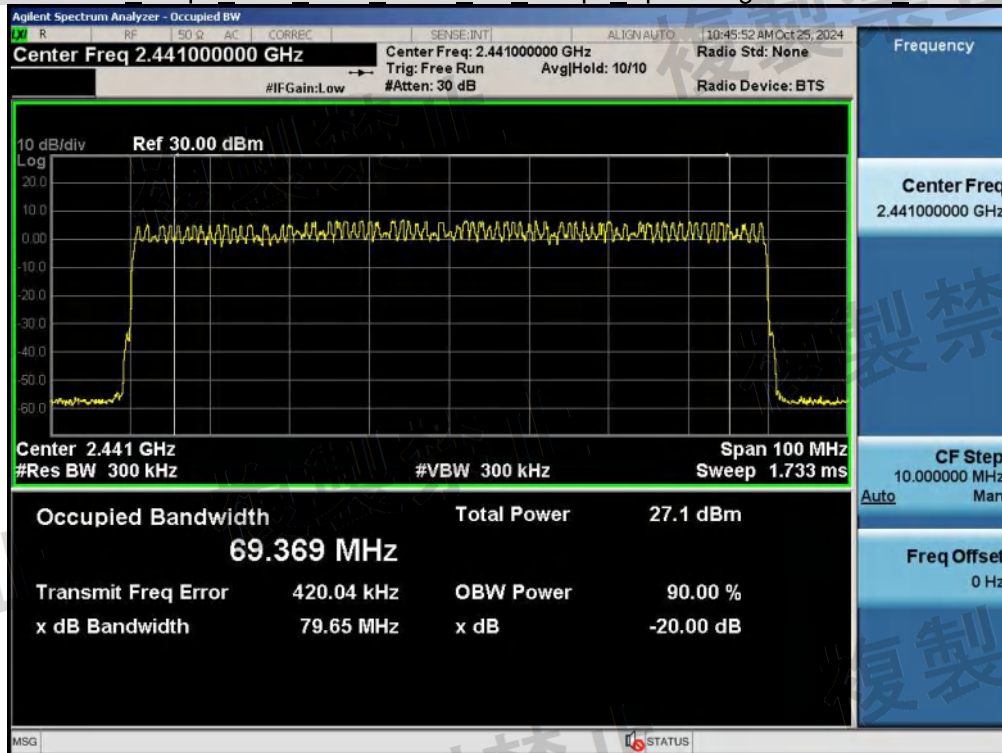
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Test Graph EDR HOP ANT1 NA 2Mbps Spreading Bandwidth_HV



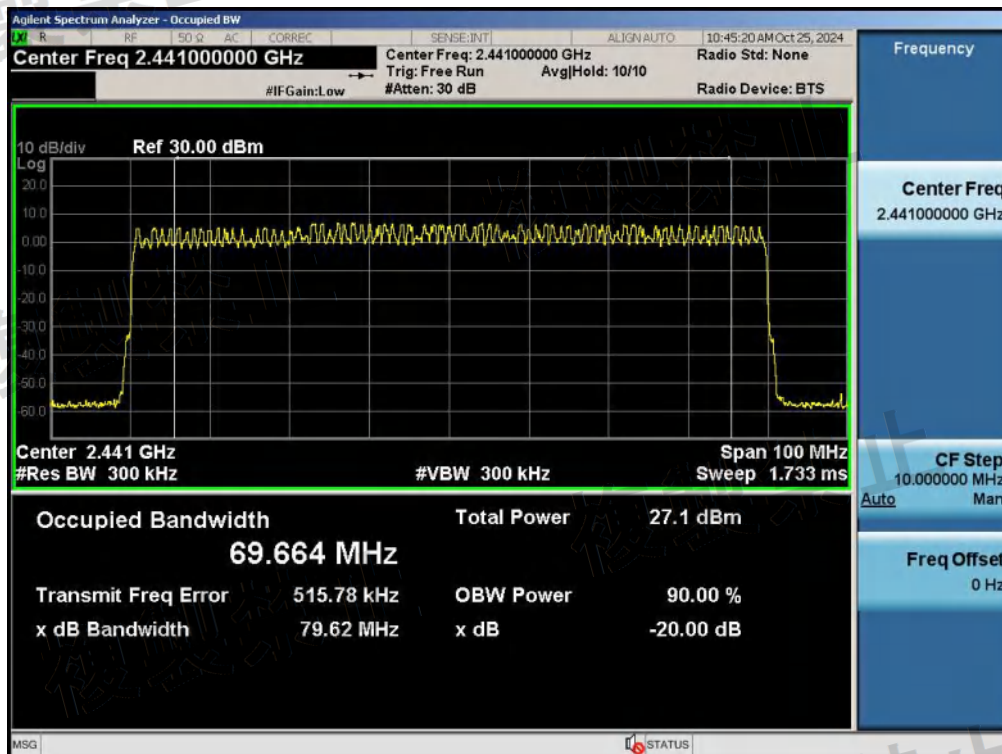
Test Graph EDR HOP ANT1 NA 2Mbps Spreading Bandwidth_LV

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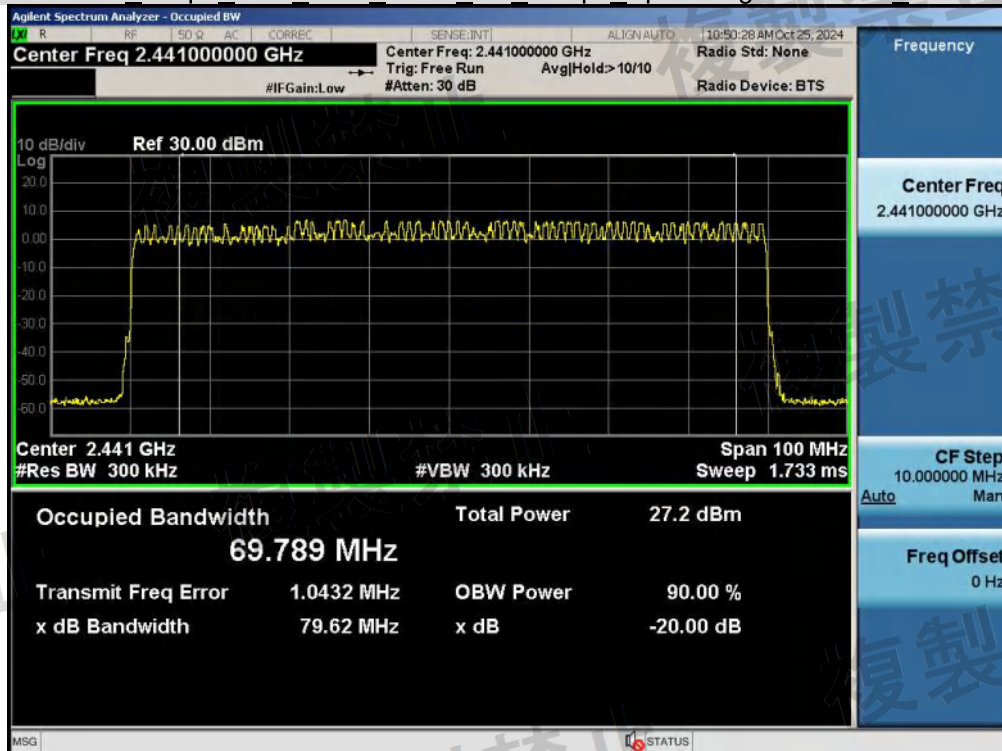
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Test Graph EDR HOP ANT1 NA 2Mbps Spreading Bandwidth_NV



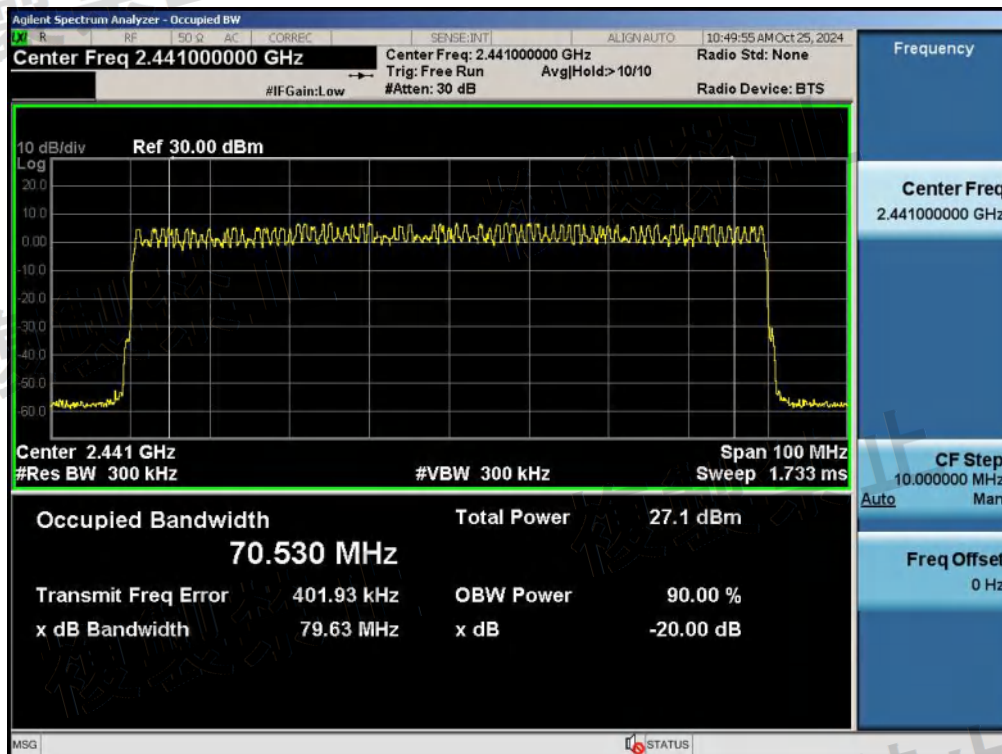
Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Spreading Bandwidth_HV

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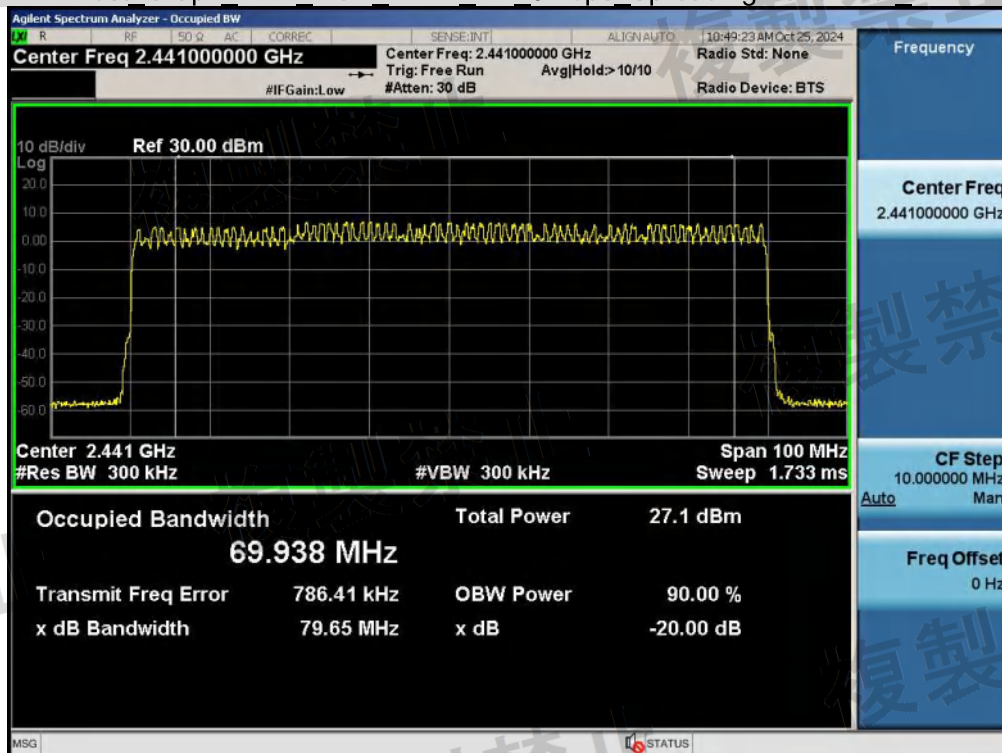
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Test Graph EDR HOP ANT1 NA 3Mbps Spreading Bandwidth_LV



Test_Graph_EDR_HOP_ANT1_NA_3Mbps_Spreading Bandwidth_NV

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5.3 Unwanted Emission Strength Measurement

Test Limit

Test Item	Limits
Unwanted Emission Strength (2400~2483.5MHz)	$\leq 2.5\mu\text{W/MHz}$ ($30\text{MHz} \leq f \leq 1000\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($1000\text{MHz} < f < 2387\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2387\text{MHz} \leq f < 2400\text{MHz}$)
	$\leq 25\mu\text{W/MHz}$ ($2483.5\text{MHz} < f \leq 2496.5\text{MHz}$)
	$\leq 2.5\mu\text{W/MHz}$ ($2496.5\text{MHz} < f < 12500\text{MHz}$)

Test Procedure

The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
RB / VB	Below 1GHz RB:100KHz / VB:100KHz Above 1GHz RB:1MHz / VB:1MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- UT have transmitted the maximum modulation signal and fixed channelize.
- Setting of SA is following as: Below 1GHz RB: 100KHz / VB: 100KHz; Above 1GHz RB: 1MHz / VB:1MHz
- AT: 30dB Ref:20dBm / Sweep time: Auto Sweep Mode: Continuous sweep / Detect mode: Positive peak Trace mode: Max hold
- Setting of SA is following as 30MHz and stop frequency 1000MHz Then to mark peak reading value + cable loss shall be less than 0.25μW.
- Setting of SA is following as 1000MHz and stop frequency 2387MHz Then to mark peak reading value + cable loss shall be less than 2.5μW.
- SA adjusted to start frequency 2387MHz and stop frequency 2400MHz. Then to mark peak reading value + cable loss shall be less than 25μW.
- SA adjusted to start frequency 2483.5MHz and stop frequency 2496.5MHz Then to mark peak reading value + cable loss shall be less than 25μW
- SA adjusted to start frequency 2496.5MHz and stop frequency 12500MHz Then to mark peak reading value + cable loss shall be less than 2.5μW
- Convert from dBm to μW: $P(\mu\text{W}) = 1000 * 10^{[P(\text{dBm})/10]}$
- Convert a measurement Value $P_{100\text{kHz}}$ at 100kHz RBW to $P_{1\text{MHz}}$ at 1MHz, use the following formula:

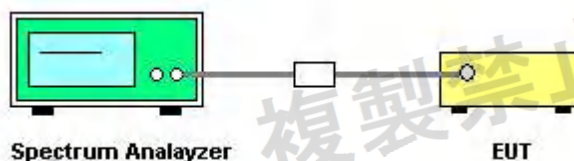
$$P_{1\text{MHz}} = P_{100\text{kHz}} + 10 \cdot \log_{10} \left(\frac{RBW_{1\text{MHz}}}{RBW_{100\text{kHz}}} \right)$$

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Test Setup**Test Result**

Test Temperature	24.7°C	Relative Humidity	53%
Test Pressure	101kPa	Test Engineer	Icey Haung
Testing Time	2025-08-21		

Test Data of Unwanted Emission Strength								
Voltage	Mode	Channel (MHz)	Frequency Range (MHz)	Frequency (MHz)	Result (dBm/MHz)	Result (μW/MHz)	Limit (μW/MHz)	P/F
NV	BR	2402	30~1000	811.6316	-50.251	0.009	2.5	Pass
NV	BR	2402	1000~2387	1923.278	-48.588	0.014	2.5	Pass
NV	BR	2402	2387~2400	2400	-30.824	0.827	25	Pass
NV	BR	2402	2483.5~2496.5	2487.586	-50.061	0.01	25	Pass
NV	BR	2402	2496.5~12500	4809.622	-42.123	0.061	2.5	Pass
LV	BR	2402	30~1000	444.6046	-49.433	0.011	2.5	Pass
LV	BR	2402	1000~2387	2260.657	-48.66	0.014	2.5	Pass
LV	BR	2402	2387~2400	2399.987	-31.172	0.763	25	Pass
LV	BR	2402	2483.5~2496.5	2491.568	-49.068	0.012	25	Pass
LV	BR	2402	2496.5~12500	4809.622	-41.551	0.07	2.5	Pass
HV	BR	2402	30~1000	971.8418	-50.111	0.01	2.5	Pass
HV	BR	2402	1000~2387	2063.506	-48.821	0.013	2.5	Pass
HV	BR	2402	2387~2400	2400	-31.205	0.758	25	Pass
HV	BR	2402	2483.5~2496.5	2485.634	-49.817	0.01	25	Pass
HV	BR	2402	2496.5~12500	4799.608	-42.231	0.06	2.5	Pass
NV	BR	2441	30~1000	928.1481	-50.13	0.01	2.5	Pass
NV	BR	2441	1000~2387	2328.688	-48.312	0.015	2.5	Pass
NV	BR	2441	2387~2400	2393.78	-49.403	0.011	25	Pass
NV	BR	2441	2483.5~2496.5	2484.996	-49.888	0.01	25	Pass
NV	BR	2441	2496.5~12500	4879.716	-41.002	0.079	2.5	Pass
LV	BR	2441	30~1000	947.5676	-49.458	0.011	2.5	Pass
LV	BR	2441	1000~2387	2182.907	-48.048	0.016	2.5	Pass
LV	BR	2441	2387~2400	2393.337	-49.875	0.01	25	Pass
LV	BR	2441	2483.5~2496.5	2485.673	-49.557	0.011	25	Pass
LV	BR	2441	2496.5~12500	4879.716	-40.254	0.094	2.5	Pass
HV	BR	2441	30~1000	907.7578	-49.66	0.011	2.5	Pass

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HV	BR	2441	1000~2387	2003.805	-48.183	0.015	2.5	Pass
HV	BR	2441	2387~2400	2389.472	-49.863	0.01	25	Pass
HV	BR	2441	2483.5~2496.5	2488.614	-49.051	0.012	25	Pass
HV	BR	2441	2496.5~12500	4879.716	-40.689	0.085	2.5	Pass
NV	BR	2480	30~1000	729.0991	-49.883	0.01	2.5	Pass
NV	BR	2480	1000~2387	1973.26	-48.141	0.015	2.5	Pass
NV	BR	2480	2387~2400	2389.577	-49.911	0.01	25	Pass
NV	BR	2480	2483.5~2496.5	2483.708	-43.853	0.041	25	Pass
NV	BR	2480	2496.5~12500	4959.824	-42.254	0.06	2.5	Pass
LV	BR	2480	30~1000	913.5836	-49.354	0.012	2.5	Pass
LV	BR	2480	1000~2387	2359.232	-48.187	0.015	2.5	Pass
LV	BR	2480	2387~2400	2396.083	-50.235	0.009	25	Pass
LV	BR	2480	2483.5~2496.5	2483.526	-44.209	0.038	25	Pass
LV	BR	2480	2496.5~12500	4959.824	-42.121	0.061	2.5	Pass
HV	BR	2480	30~1000	848.5285	-49.497	0.011	2.5	Pass
HV	BR	2480	1000~2387	2305.085	-47.482	0.018	2.5	Pass
HV	BR	2480	2387~2400	2393.871	-49.804	0.01	25	Pass
HV	BR	2480	2483.5~2496.5	2483.851	-43.78	0.042	25	Pass
HV	BR	2480	2496.5~12500	4959.824	-41.924	0.064	2.5	Pass

Note: Only reflects the Bluetooth BR mode rate of 1Mbps as the worst mode data.

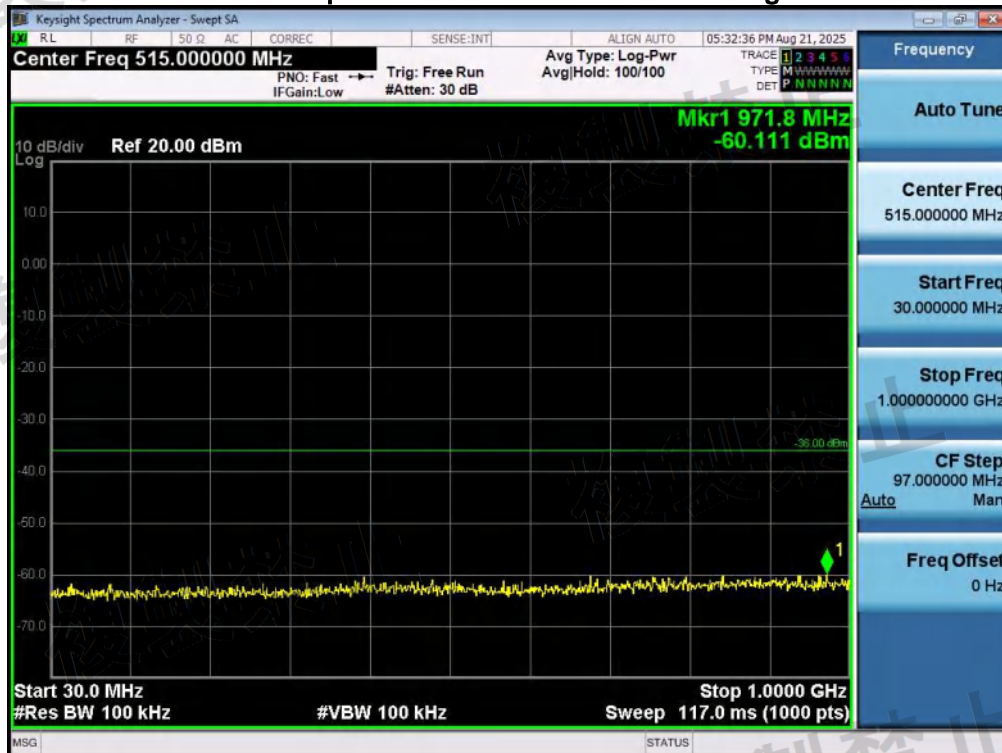
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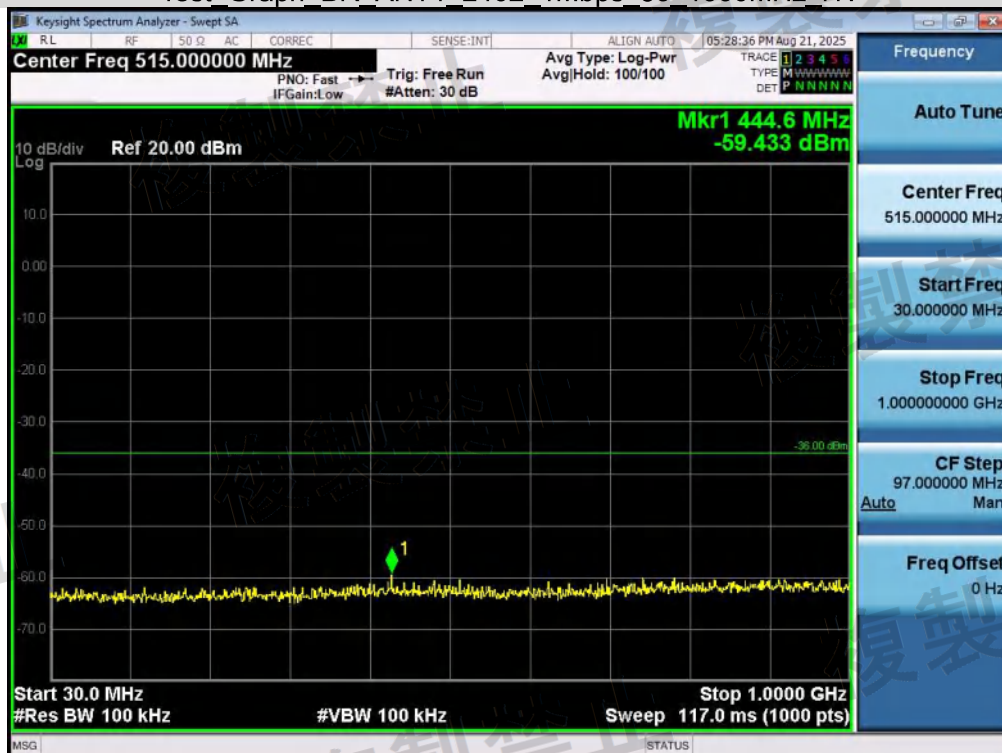
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Test Graphs of Unwanted Emission Strength

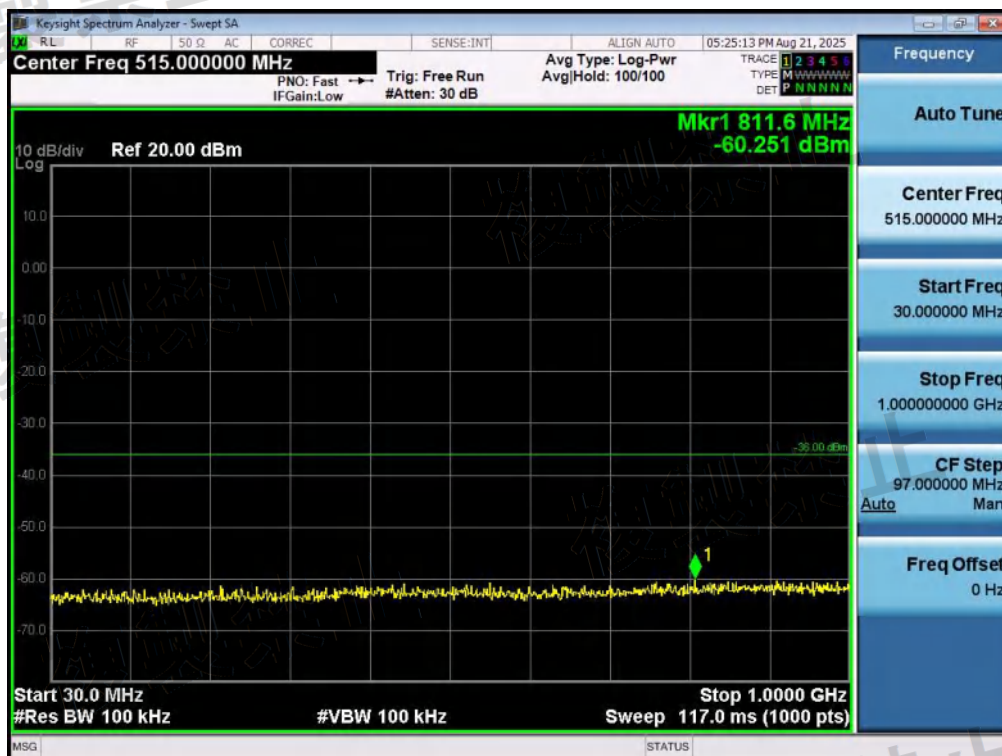


Test Graph BR ANT1 2402 1Mbps 30 1000MHz HV

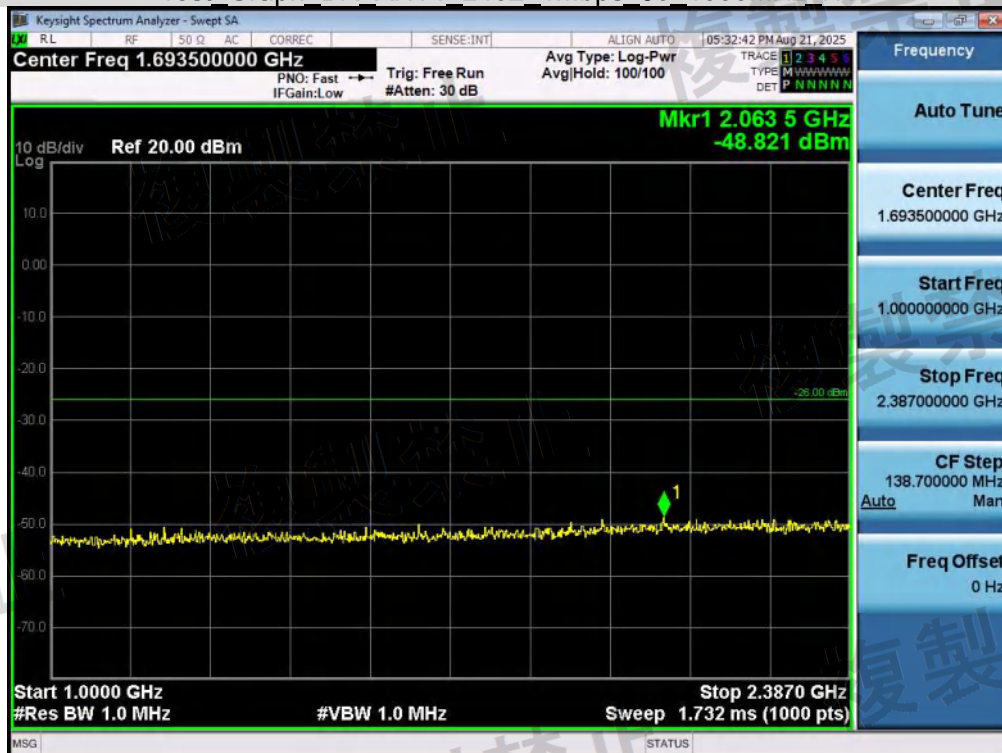


Test Graph BR ANT1 2402 1Mbps 30 1000MHz LV

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Test Graph BR ANT1 2402 1Mbps 30 1000MHz NV



Test Graph BR ANT1 2402 1Mbps 1000 2387MHz HV

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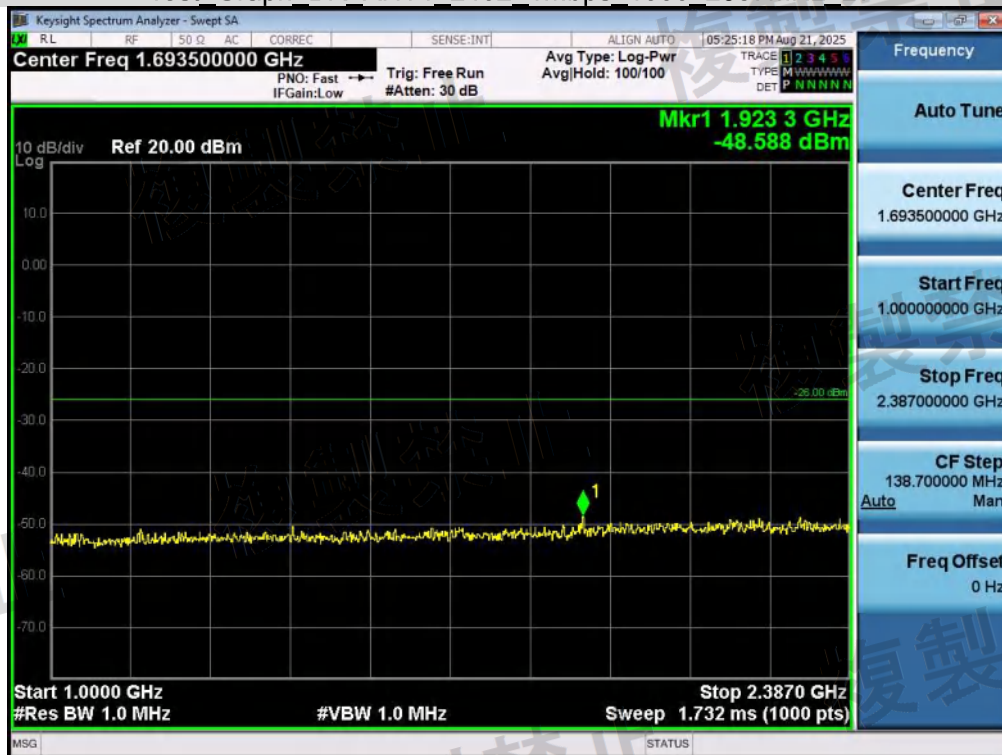
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Test Graph BR ANT1 2402 1Mbps 1000 2387MHz LV



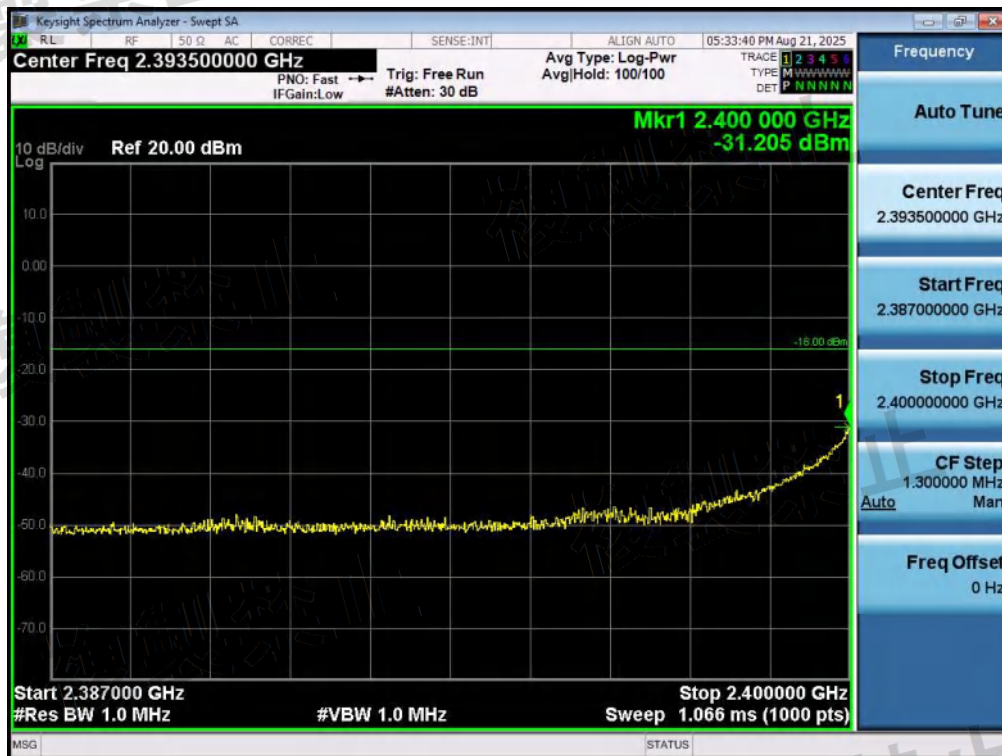
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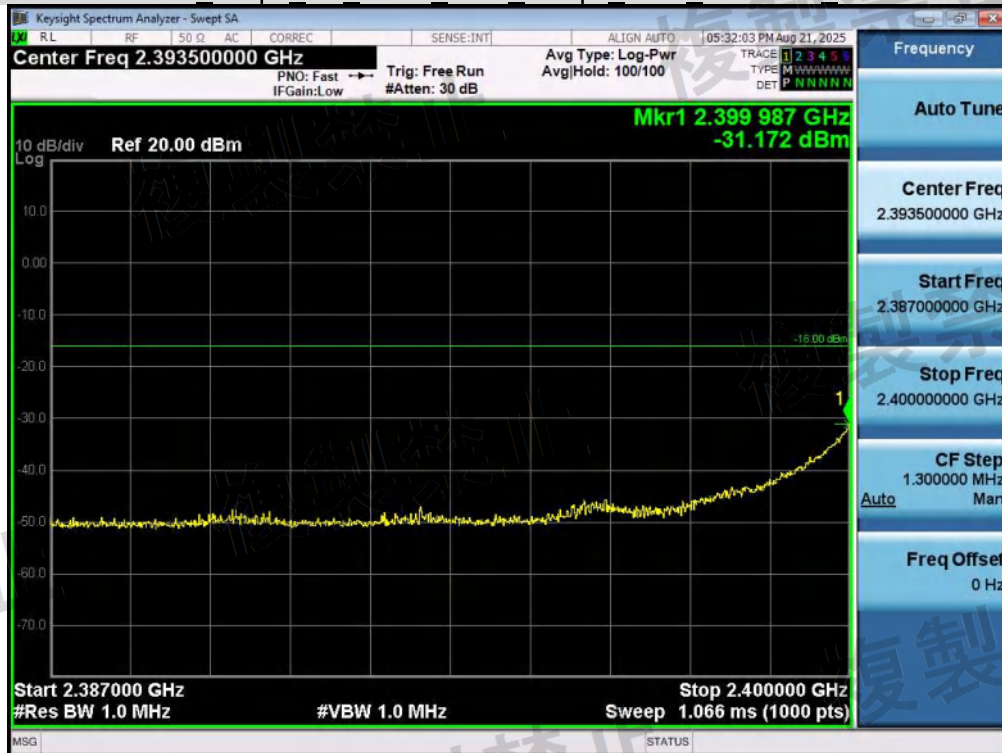
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Test Graph BR ANT1 2402 1Mbps 2387 2400MHz HV



Test Graph BR ANT1 2402 1Mbps 2387 2400MHz LV

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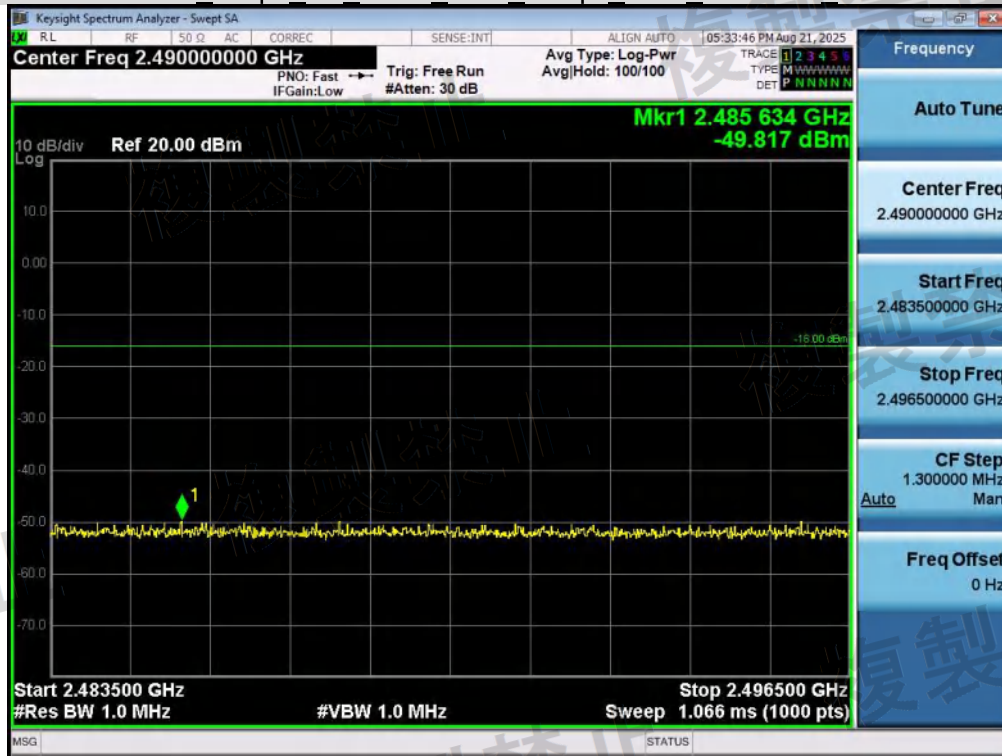
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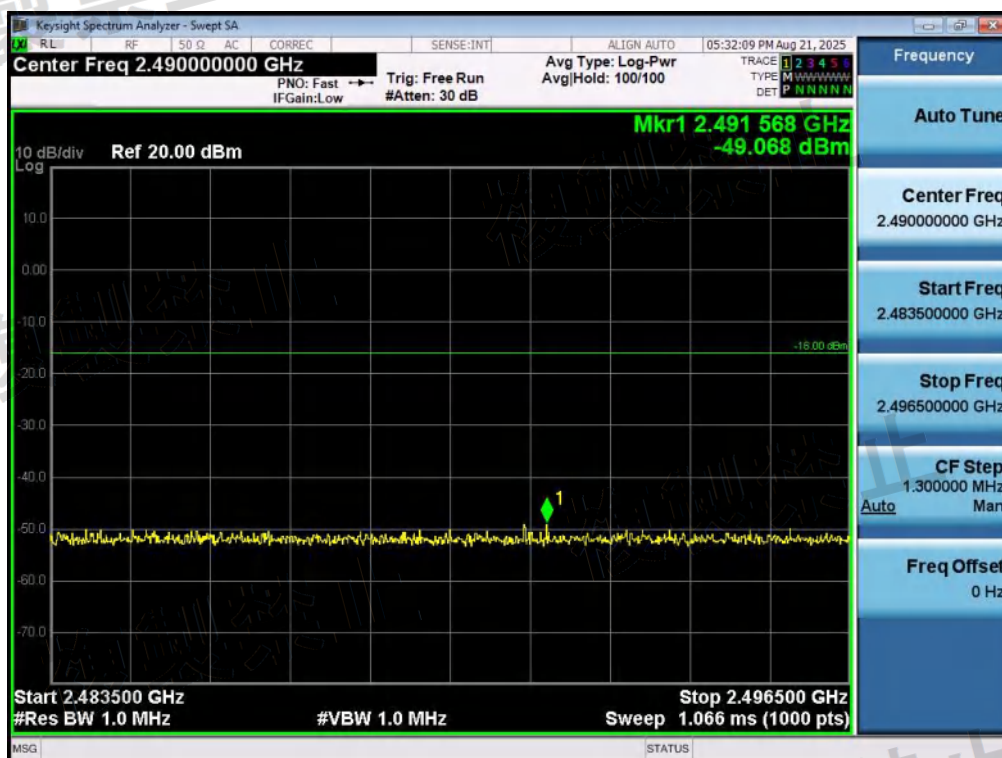


Test Graph BR ANT1 2402 1Mbps 2387 2400MHz NV

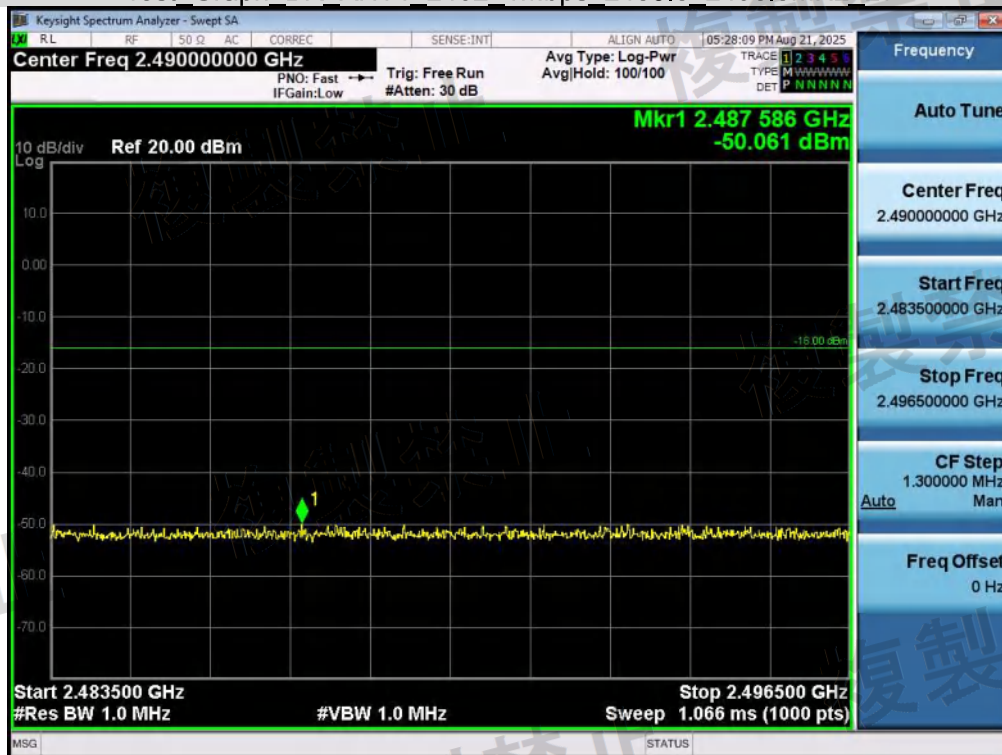


Test Graph BR ANT1 2402 1Mbps 2483.5 2496.5MHz HV

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Test Graph BR ANT1 2402 1Mbps 2483.5 2496.5MHz LV



Test_Graph_BR_ANT1_2402_1Mbps_2483.5_2496.5MHz_NV

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