



CTC Laboratories, Inc.

TEST REPORT

Report No. : **CTC2025745602**

Applicant : **Shenzhen Shengyin Epoch Technology Co.,Ltd.**

Address : Room 3103, 31st Floor, West Tower, Galaxy World Twin Towers, No. 8 Yaxing Road, Nankeng Community, Bantian Subdistrict, Longgang District, Shenzhen City

Manufacturer..... : Guangzhou U&I Technology Co., Ltd.

Address..... : Aibisi Industry Park, Room 303B, No. 13, Kefeng Road, Guicheng Sub-district, Nanhai District, Foshan City, Guangdong Province

Product Name : **Wireless Earphones**

Trade Mark : sanag

Model/Type reference : A7066

Listed Model(s) : sanag S8S Ultra, sanag S8S AI 2

Standard : **Article 2, Paragraph 1, Item 19**

Test Report Form No...... : CTC-TR-074_A3

Master TRF : Dated 2026-01-01

Date of receipt of test sample..... : Nov. 27, 2025

Date of testing..... : Dec. 03, 2025 ~ Dec. 05, 2025

Date of issue..... : Jan. 29, 2026

Result..... : **PASS**

Compiled by:

(Printed name + signature)

Lucy Lan

Supervised by:

(Printed name + signature)

Eric Zhang

Approved by:

(Printed name + signature)

Totti Zhao

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CTC Laboratories, Inc.

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TRF No: CTC-TR-074_A3 Master TRF : Dated 2026-01-01



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1. SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[Test method which is equal to Appendix No.43 of MIC Notification No 88.](#)

1.2. Report version

Revised No.	Report No.	Date of issue	Description
01	CTC2025745602	Jan. 29, 2026	Original

1.3. Test Description

MIC Notice No.88 Appendix No.43 Article 2, Paragraph 1, Item 19 Rules Section	Test Item	Result	Note
3	Frequency Error	Pass	
4	Occupied Bandwidth and Spreading Bandwidth	Pass	
5	Transmitter Spurious Emission and Unwanted Emission Intensity	Pass	
6	Antenna Output Power and Output Power Tolerance	Pass	
7	Receiver Spurious Emission and Unwanted Emission Intensity	Pass	
8	Radio Interference Prevention Capability	Pass	
9	Frequency Hopping Dwell Time	Pass	
12	Transmission Radiation Angle Width (3dB Beamwidth)	N/A	Note 2
Note 1	Carrier Sense Capability	N/A	Note 1
Note 2	Construction Protection Confirmation	Pass	

N/A_{Note 1}: Testing is only required OFDM system with occupied frequency bandwidth below 38MHz and exceed 26MHz.

N/A_{Note 2}: Required when the design value of Rated +Antenna gain exceeds 12.14 dBm.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luh Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with 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.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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. Registration 951311, Aug 26, 2017.



1.5. Measurement Uncertainty

For the test methods, according to the present document, the measurement uncertainty figures shall be calculated in accordance with TR100028-1 [2] and shall correspond to an expansion factor (coverage factor) $K=1.96$ or $K=2$ (which provide confidence levels of respectively 95% and 95.5% in the case where the distributions characterizing the actual measurement uncertainties are normal).

Parameter	Uncertainty
Frequency Error	$\pm 1.9\%$
Antenna Power	$\pm 0.743\text{dB}$
Occupied Bandwidth	$\pm 0.0196\%$
Spread Bandwidth	$\pm 0.0196\%$
Transmitter Spurious Emission Strength and Unwanted Emission Intensity	30MHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-13GHz: $\pm 1.328\text{dB}$
Receiver Spurious Emission and Unwanted Emission Intensity	30MHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-26GHz: $\pm 1.328\text{dB}$
Dwell Time	$\pm 0.028\%$



2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Voltage	Normal Voltage	DC 5V
	High Voltage	DC 5.5V
	Low Voltage	DC 4.5V
Other	Normal Temperature/T _{nor}	23°C
	Relative Humidity	57 %
	Air Pressure	101kPa

2.2. Client Information

Applicant:	Shenzhen Shengyin Epoch Technology Co.,Ltd.
Address:	Room 3103, 31st Floor, West Tower, Galaxy World Twin Towers, No. 8 Yaxing Road, Nankeng Community, Bantian Subdistrict, Longgang District, Shenzhen City
Manufacturer:	Guangzhou U&I Technology Co., Ltd.
Address:	Aibisi Industry Park, Room 303B, No. 13, Kefeng Road, Guicheng Sub-district, Nanhai District, Foshan City, Guangdong Province
Factory	/
Address:	/



2.3. General Description of EUT

Product Name:	Wireless Earphones
Trade Mark:	sanag
Model/Type reference:	A7066
Listed Model(s):	sanag S8S Ultra, sanag S8S AI 2
Model Difference:	Only the model names are different.
Sample ID:	CTC251118-006-S001
Power supply:	Headset Battery Capacity: 39mAh Charging compartment battery capacity: 400mAh Importation: 5V 0.5A
Hardware version:	BO879Z3Y_BT_V00_01
Software version:	V0.3.7
Bluetooth 6.0+BD/EDR	
Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	FPC Antenna
Antenna gain:	L: -2.47dBi R: -2.61dBi



2.4. Description of Test Modes

The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2403
⋮	⋮
38	2440
39	2441
40	2442
⋮	⋮
77	2479
78	2480

Note: The line display in grey were the channel selected for testing



2.5. Measurement Instruments List

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until	Cal. By
1	Spectrum Analyzer	R&S	FSV40-N	101654	2024/12/13	2025/12/12	CCIC
2	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	2024/12/13	2025/12/12	CCIC
3	digital oscilloscope	Tektronix	TDS3032B	C010354	2025/10/23	2026/10/22	CCIC
4	RF Control Unit	Tonscend	JS0806-2	/	2024/12/13	2025/12/12	CCIC
5	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	2025/3/25	2026/3/24	CCIC
6	6dB Attenuator	N/A	100W/6dB	N/A	2025/12/13	2026/12/12	CCIC
Test Software							
Name		Manufacturer			Serial No.		
Tonscend		JS1120-3			V3.3.38		

Note: 1. Calibration conducted in foreign countries, which is equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)

2. Full name of CCIC: CCIC (Shenzhen) Metrology & Testing Service Co.,Ltd



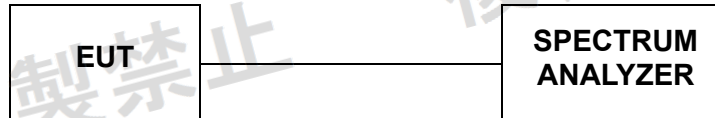
3. TEST CONDITIONS AND RESULTS

3.1. Frequency Error

LIMIT

±50ppm

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: Modulation

Spectrum Condition:

Frequency: Test frequency

Span: Show the entire waveform

RBW: 10 KHz

VBW: 10 KHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: Max hold

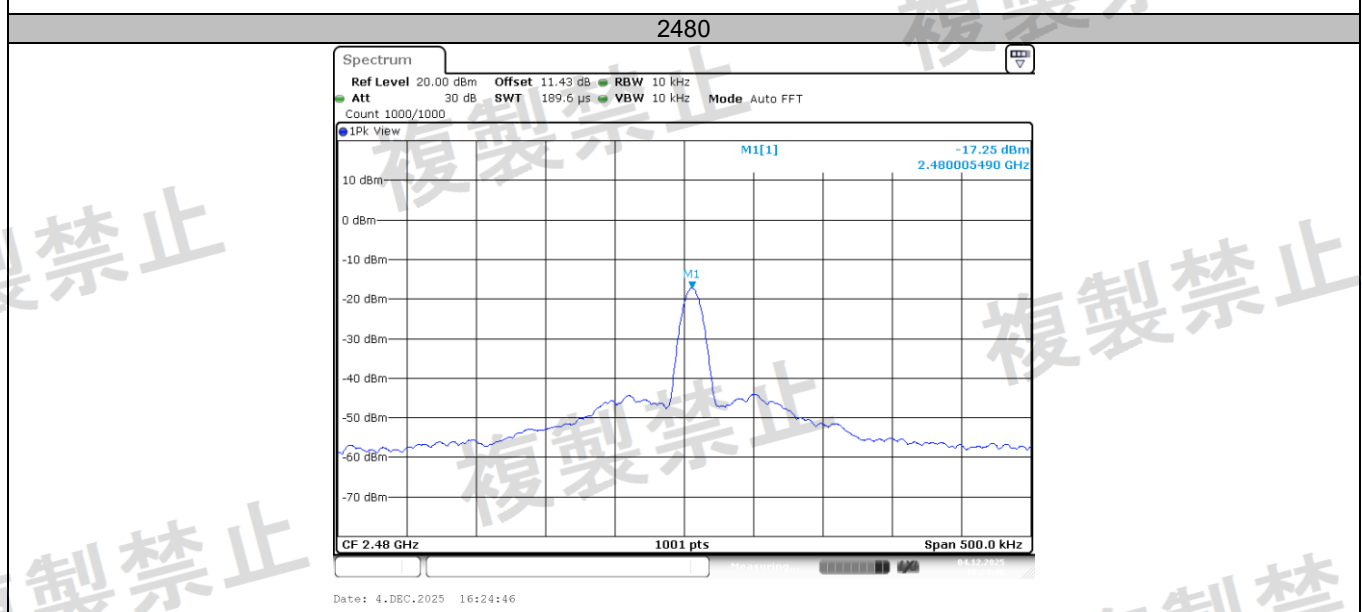
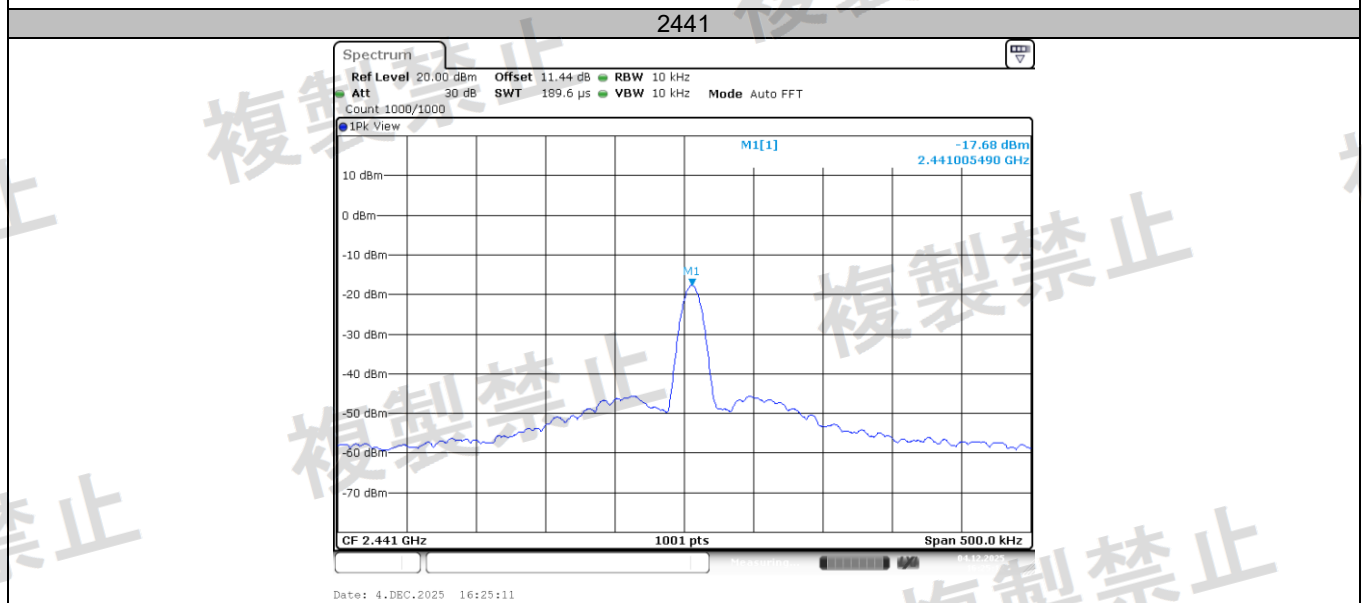
TEST RESULTS

Left ear DC 5V				
Channel	Read (MHz)	Result[ppm]	Limit[ppm]	Verdict
2402	2402.00649	2.70192	±50	PASS
2441	2441.00549	2.24908	±50	PASS
2480	2480.00549	2.21371	±50	PASS

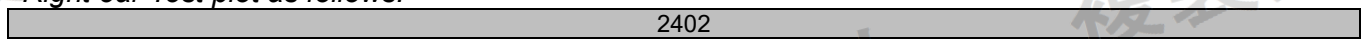
Right ear DC 5V				
Channel	Read (MHz)	Result[ppm]	Limit[ppm]	Verdict
2402	2402.00649	2.70192	±50	PASS
2441	2441.00599	2.45391	±50	PASS
2480	2480.00599	2.41532	±50	PASS

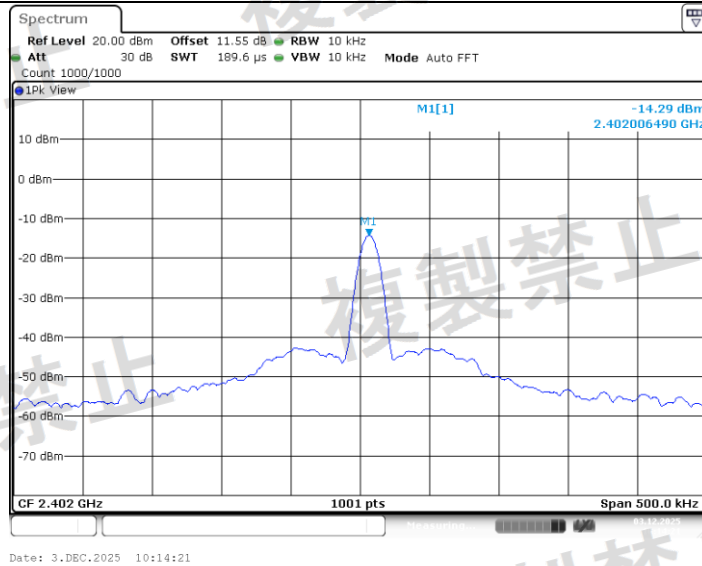


Left ear Test plot as follows:

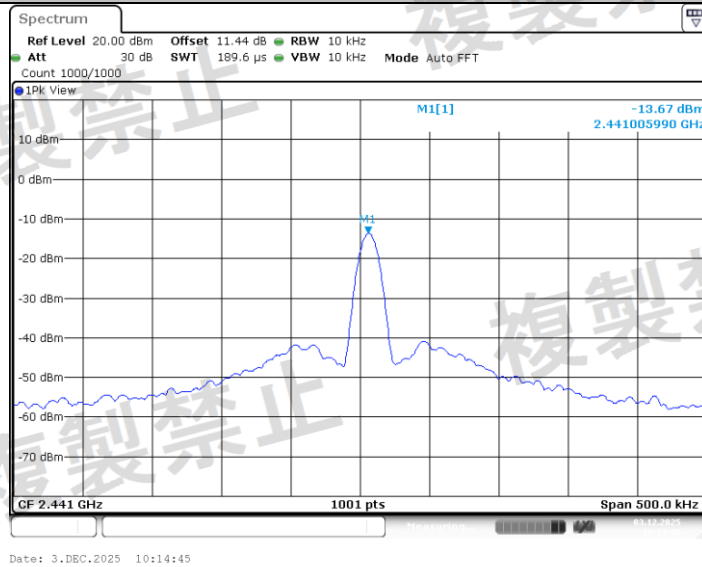


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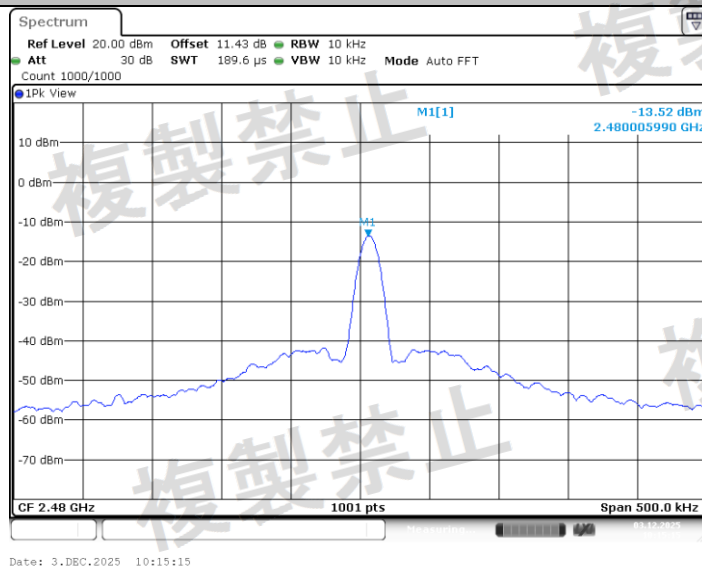




2441



2480





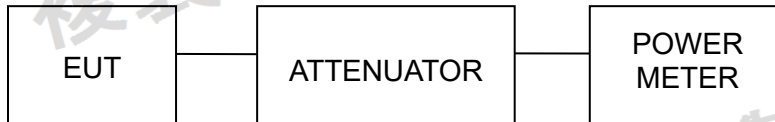
3.2. Antenna Power

LIMIT

- ≤ 3 mW/MHz (FHSS from 2402-2480 MHz)
- ≤ 5 mW/MHz (OFDM(26MHz<Occupied Bandwidth <40MHz) from 2400-2483.5 MHz)
- ≤ 10 mW (other from 2400-2483.5 MHz)

The Output Power Tolerance must be within +20%, -80%.

TEST CONFIGURATION



TEST PROCEDURE

Step 1:

Connecting the high frequency power meter.

Use the high frequency power meter to measure the Antenna power.

TEST RESULT

Left ear DC 5V								
Test Mode	Channel	Power (dBm)	Power (mW/MHz)	Limit (mW/MHz)	RatedPower (mW/MHz)	Tolerance (%)	Limit (%)	Verdict
DH5	HOP	-24.81	0.0033	3	0.01	-67.00	-80 to +20	PASS
2DH5	HOP	-26.58	0.0022	3	0.01	-78.00		
3DH5	HOP	-19.87	0.0103	3	0.01	3.00		

Remark:

- For GFSK, $\pi/4$ -DQPSK, 8-DPSK modulation, Pre-scan all kind of packet type DH1, DH3, DH5, 2DH1, 2DH3, 2DH5, 3DH1, 3DH3, 3DH5 found the DH5, 2DH5, 3DH5 which is worse case mode.
- Antenna Gain: L: -2.47dBi; R: -2.61dBi
- $A=(10^{(Power[dBm]/10)})$
Power(mW/MHz)=A/ Spreading Bandwidth

Right ear DC 5V								
Test Mode	Channel	Power (dBm)	Power (mW/MHz)	Limit (mW/MHz)	RatedPower (mW/MHz)	Tolerance (%)	Limit (%)	Verdict
DH5	HOP	-19.21	0.0120	3	0.01	20.00	-80 to +20	PASS
2DH5	HOP	-19.67	0.0108	3	0.01	8.00		
3DH5	HOP	-23.87	0.0041	3	0.01	-59.00		



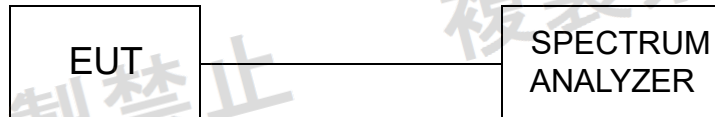
3.3. Occupied Bandwidth and Spreading Bandwidth

LIMIT

Occupied bandwidth: FH $\leq$ 83.5 MHz; OFDM $\leq$ 40MHz; DS $\leq$ 26 MHz

Spread Bandwidth: $\geq$ 500KHz (FH, DS), Spread factor $>$ 5.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: Modulation

1. Spectrum Condition:
Frequency: Start 2.4GHz stop 2483.5MHz, RBW: 1MHz, VBW: 1MHz, Sweep time: Auto
Detector mode: Positive peak, Indication mode: Max hold
2. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 99% of occupied bandwidth to measure occupied bandwidth.
3. EUT have transmitted the maximum modulation signal and fixed channelize. SA set to 90% of occupied bandwidth to measure spread bandwidth.
4. Spread Factor=Spread Bandwidth/modulation rate, the modulation rate is 1MHz for GFSK, 1MHz for $\pi/4$ -DQPSK and 1MHz for 8-DPSK

TEST RESULTS

Left ear DC 5V			
TestMode	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	78.721	$\leq$ 83.5	PASS
$\pi/4$ -DQPSK	78.521		
8-DPSK	78.721		

Left ear DC 5V					
TestMode	Spread Bandwidth [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
GFSK	70.729	$\geq$ 0.5	70.729	$\geq$ 5	PASS
$\pi/4$ -DQPSK	70.929		70.929		
8-DPSK	70.529		70.529		

Remark:

1. Spreading Factor = [spread bandwidth (actual measurement value)]/ transmission rate.
2. Transmission rate: GFSK-1MHz, $\pi/4$ -DQPSK-1MHz, 8-DPSK-1MHz.



Right ear DC 5V			
TestMode	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	78.921	<=83.5	PASS
$\pi/4$ -DQPSK	78.921		
8-DPSK	78.521		

Right ear DC 5V					
TestMode	Spread Bandwidth [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
GFSK	71.129	>=0.5	71.129	>=5	PASS
$\pi/4$ -DQPSK	70.729		70.729		
8-DPSK	70.729		70.729		

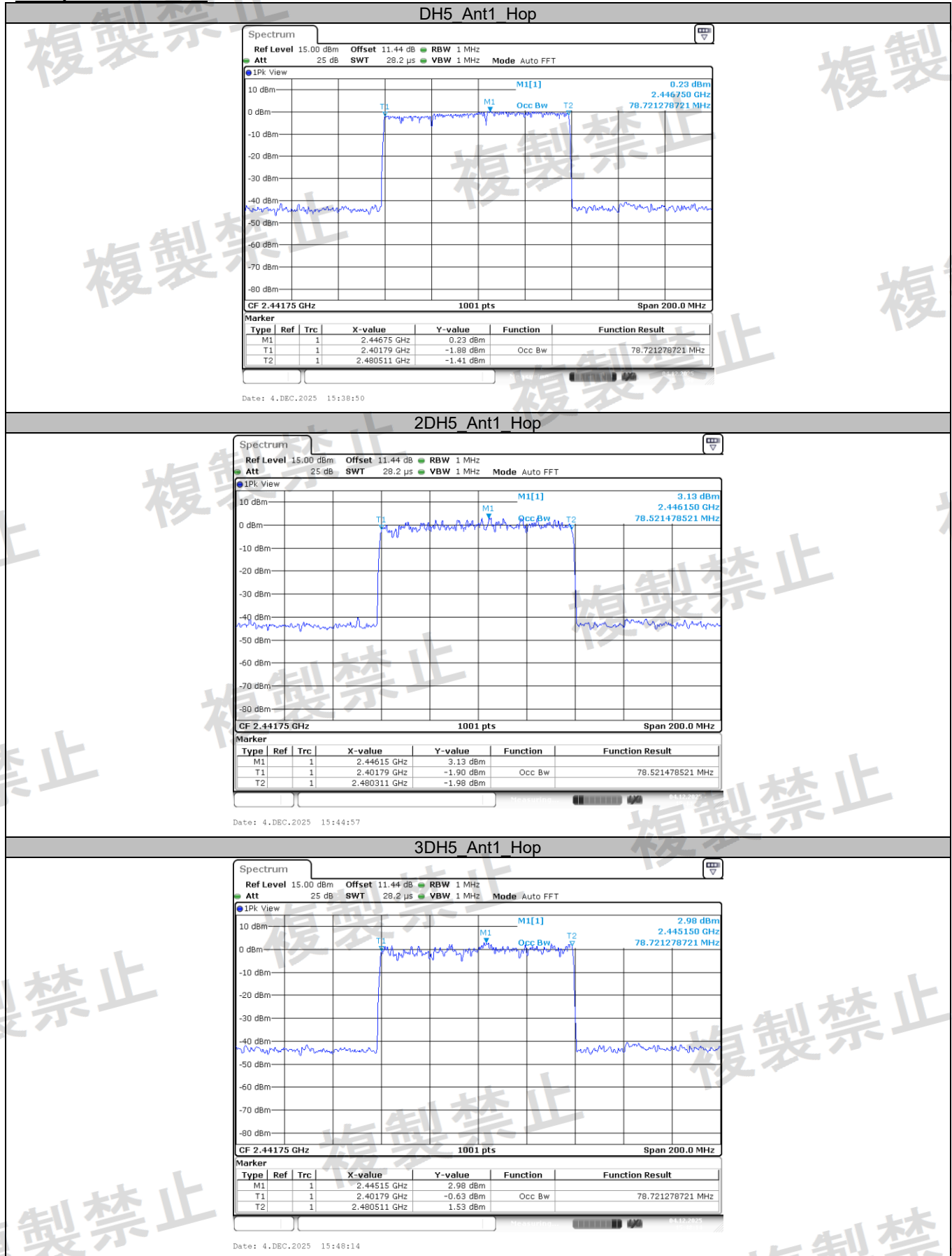
Remark:

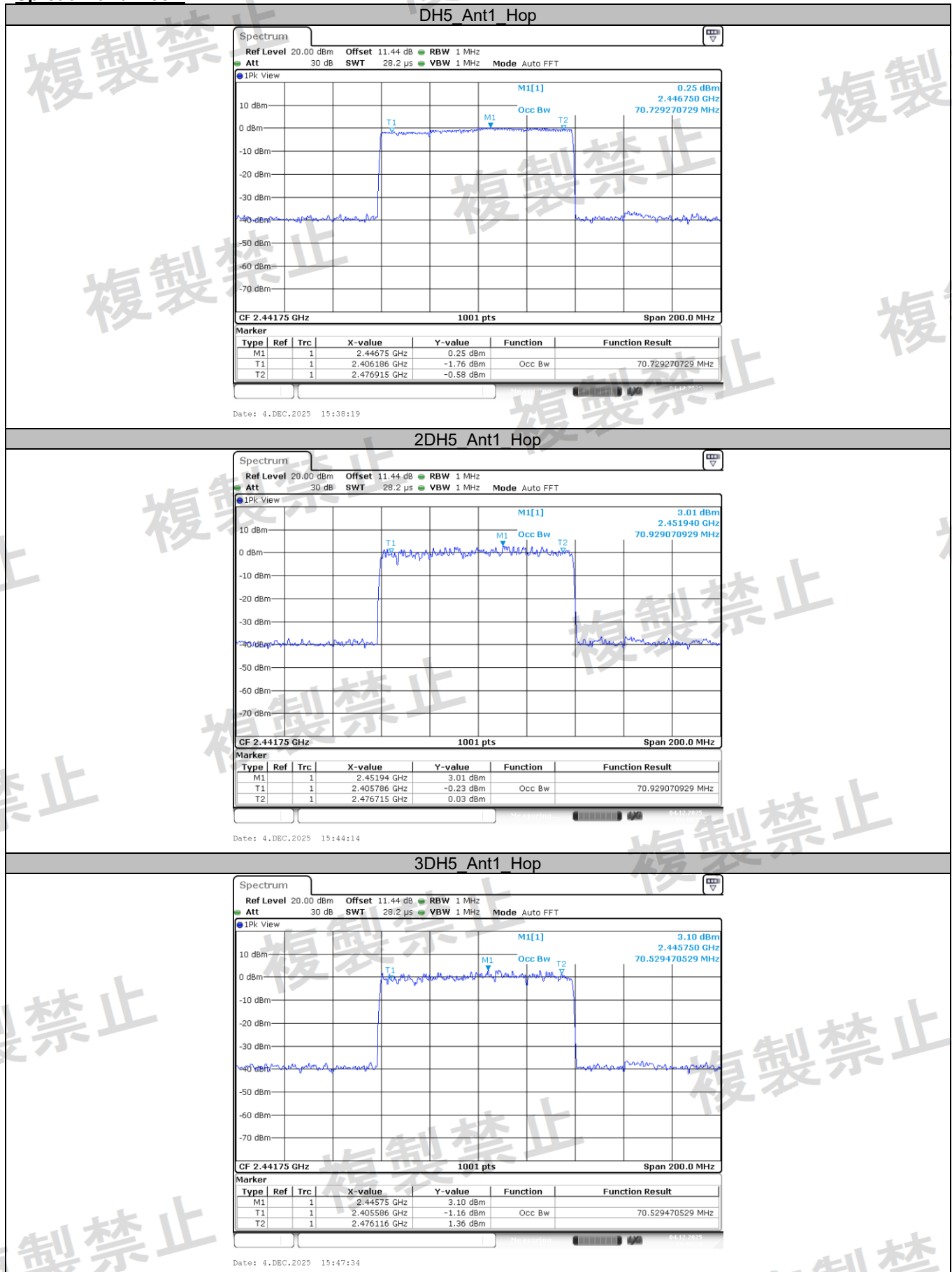
3. Spreading Factor = [spread bandwidth (actual measurement value)]/ transmission rate.
4. Transmission rate: GFSK-1MHz, $\pi/4$ -DQPSK-1MHz, 8-DPSK-1MHz.



Left ear Test plot as follows:

Occupied Bandwidth:



**Spread Bandwidth:**

Right ear Test plot as follows:

Occupied Bandwidth:

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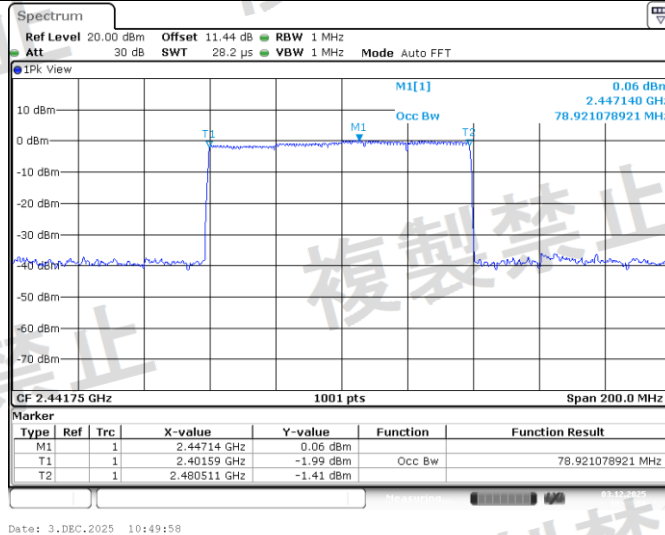
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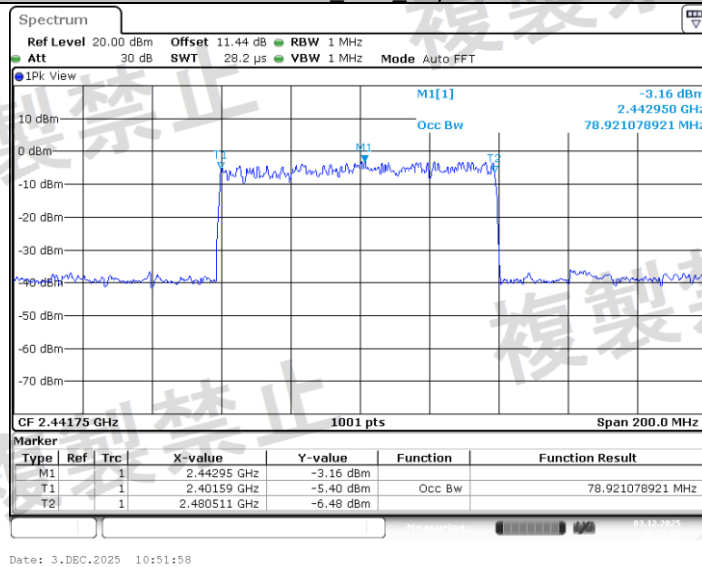
Master TRF : Dated 2026-01-01



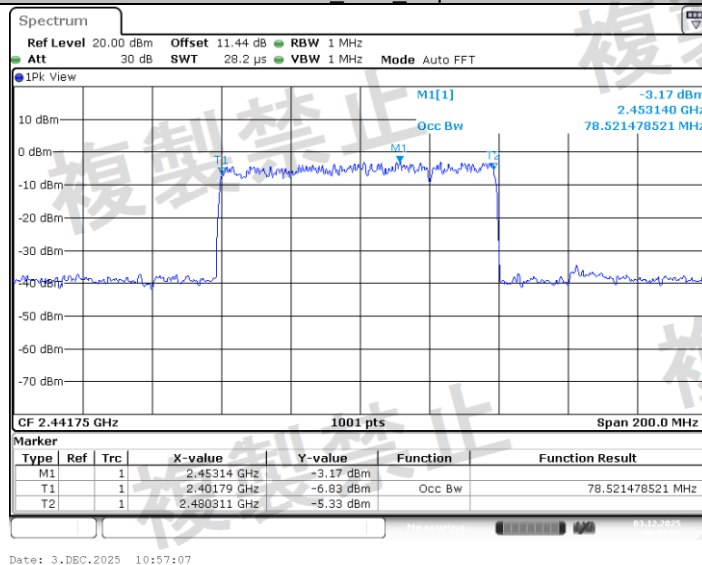
DH5_Ant1_Hop

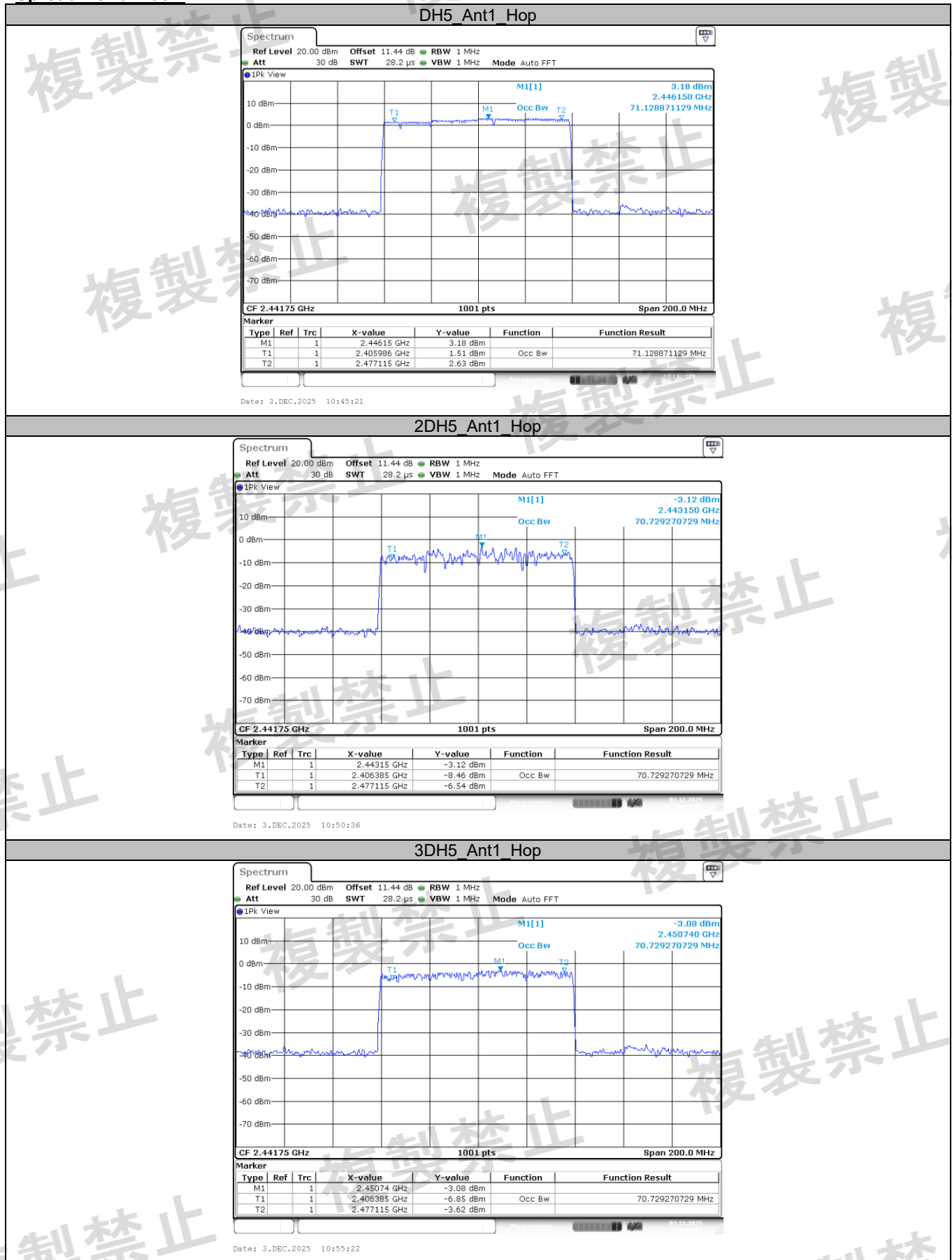


2DH5_Ant1_Hop



3DH5_Ant1_Hop



**Spread Bandwidth:**

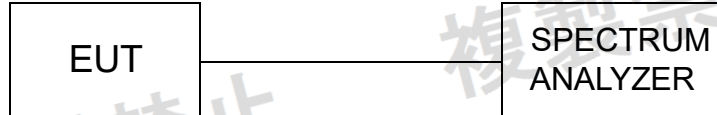


3.4. Dwell time

LIMIT

0.4 second or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: Modulation

Spectrum Condition:

Frequency: test channel, Span=0MHz, RBW: 1MHz, VBW: 1MHz, Sweep time: Auto

Detector mode: Positive peak

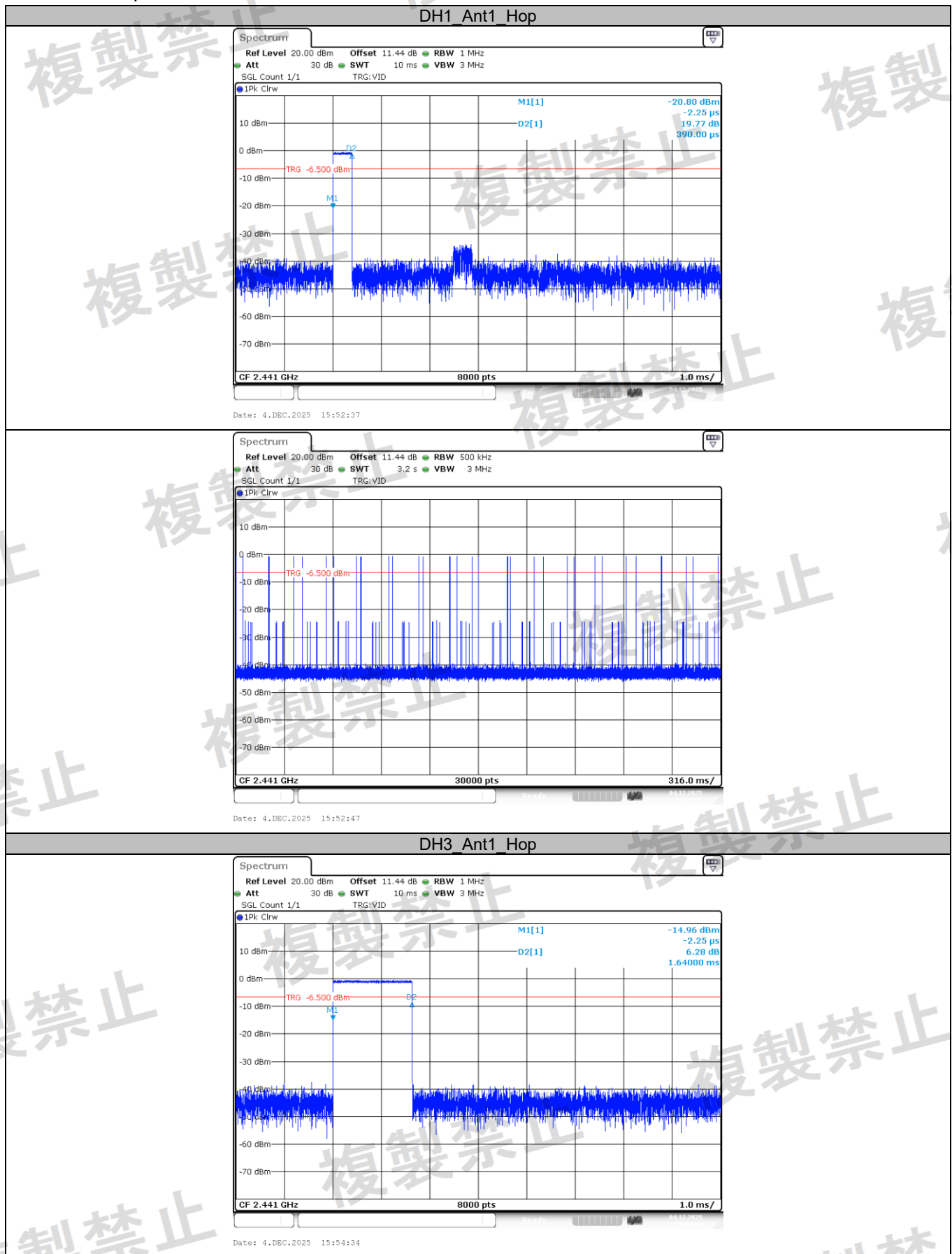
TEST RESULTS

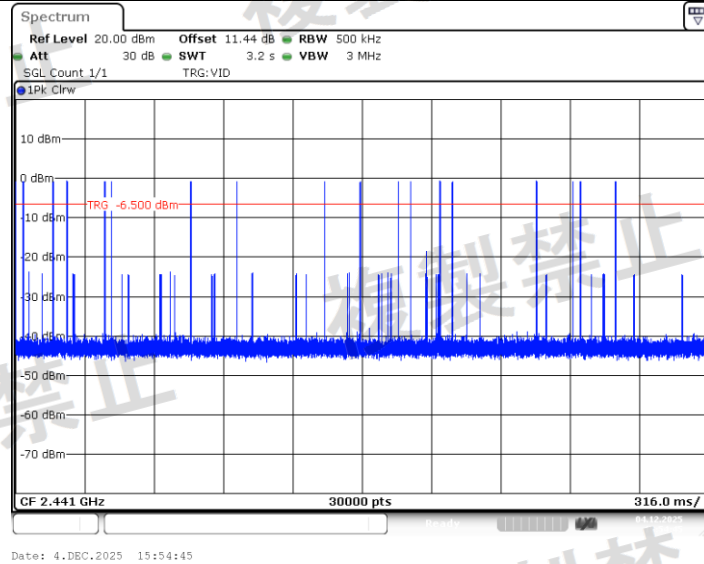
Left ear DC 5V							
Test Mode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.39	330	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.64	180	0.295	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.65	200	0.33	≤0.4	PASS
2DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS
3DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

Right ear DC 5V							
Test Mode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.39	330	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.64	200	0.328	≤0.4	PASS
DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
2DH1	Ant1	Hop	0.40	320	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
3DH1	Ant1	Hop	0.40	330	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.64	230	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

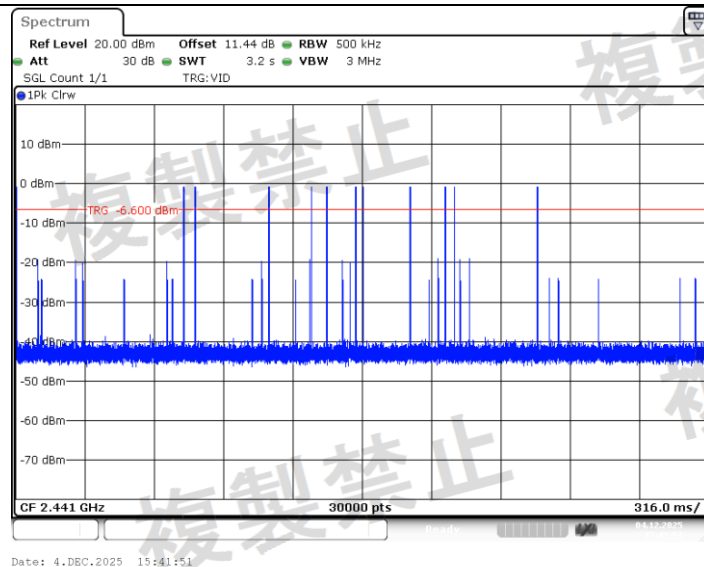
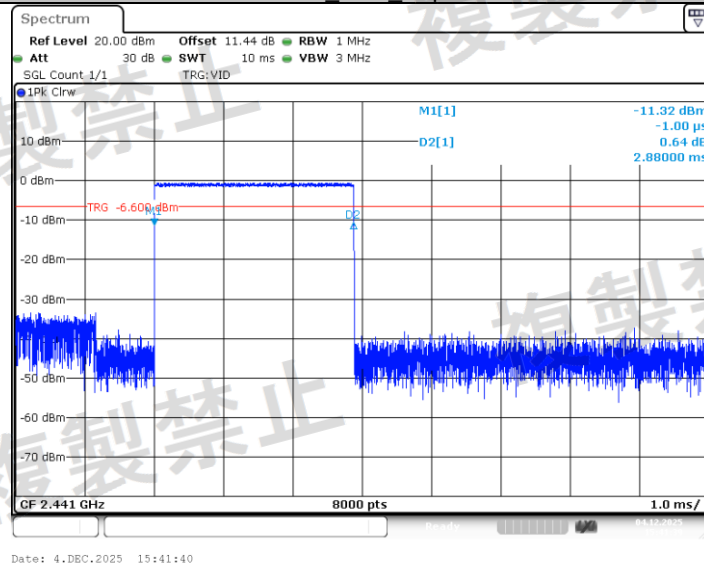


Left ear Test plot as follows:

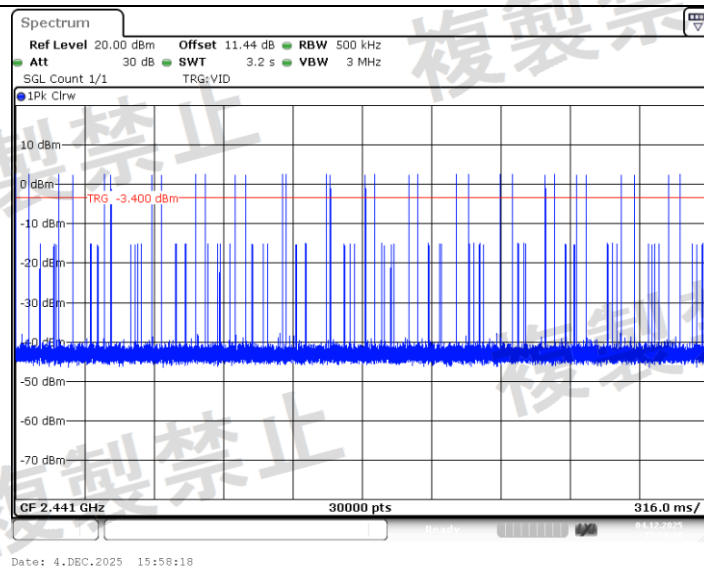
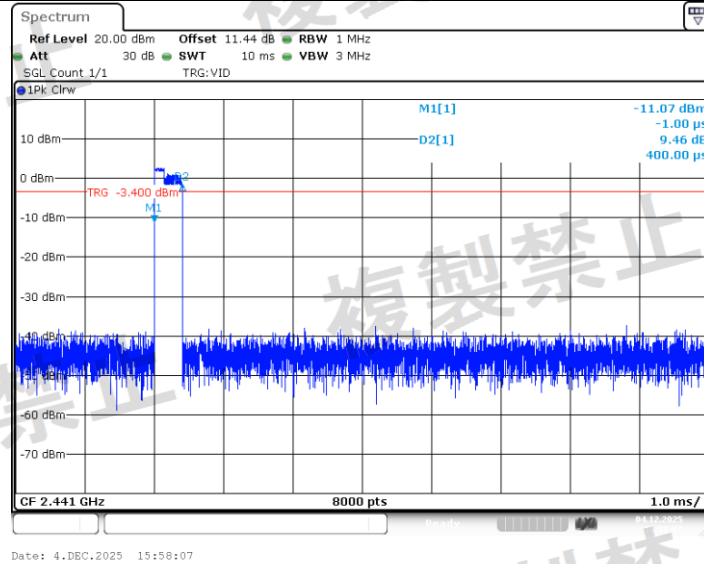




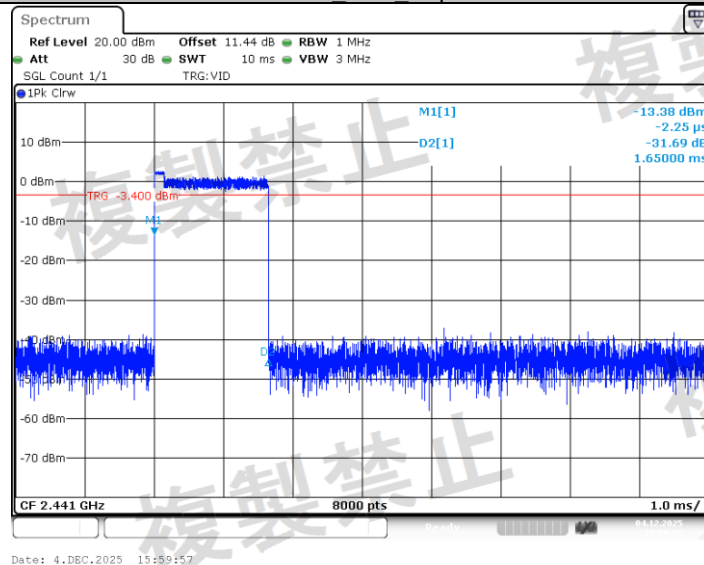
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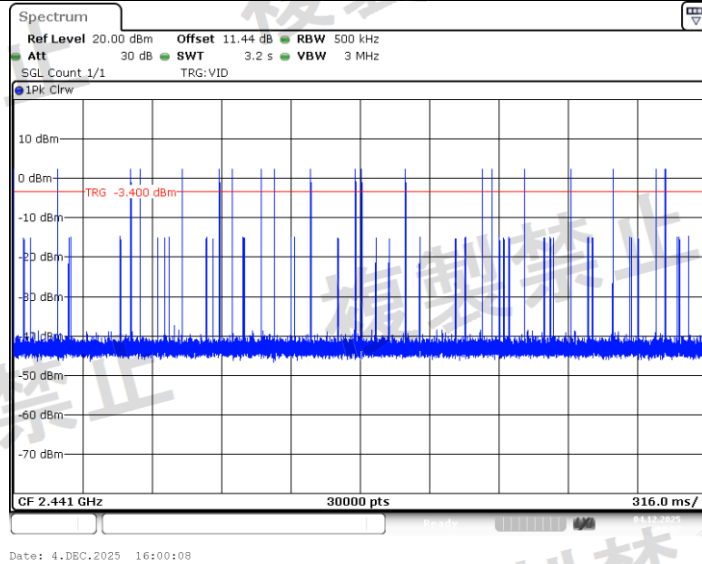


2DH1_Ant1_Hop

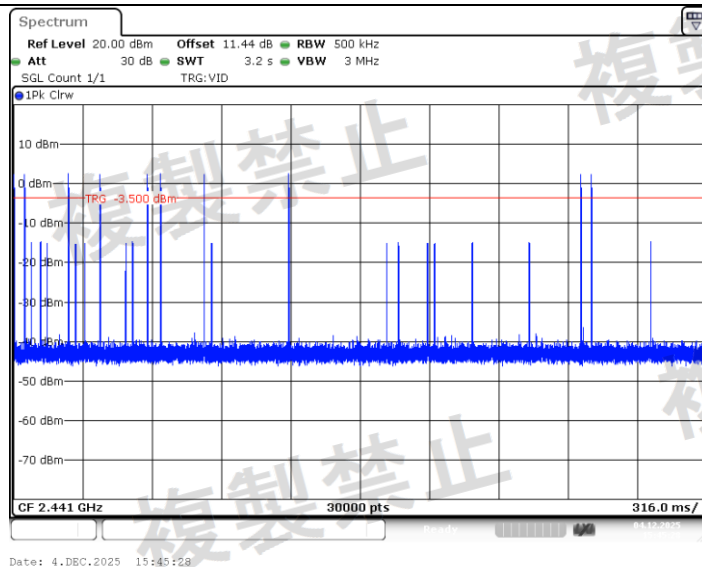
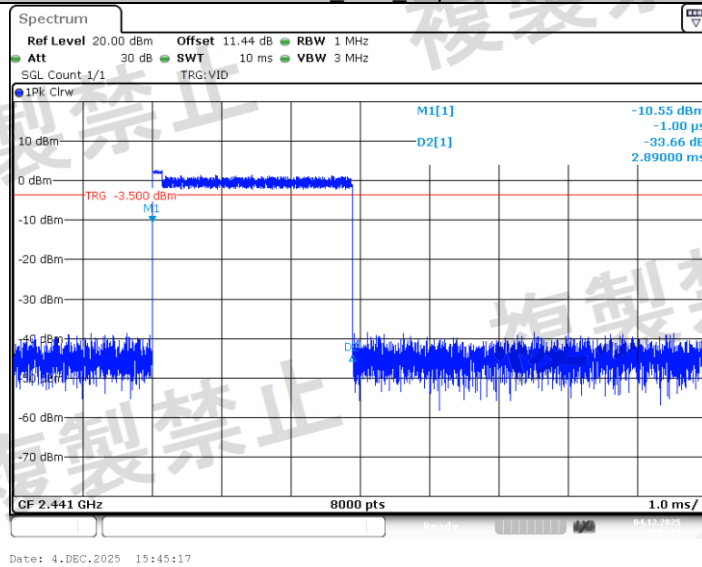


2DH3 Ant1 Hop

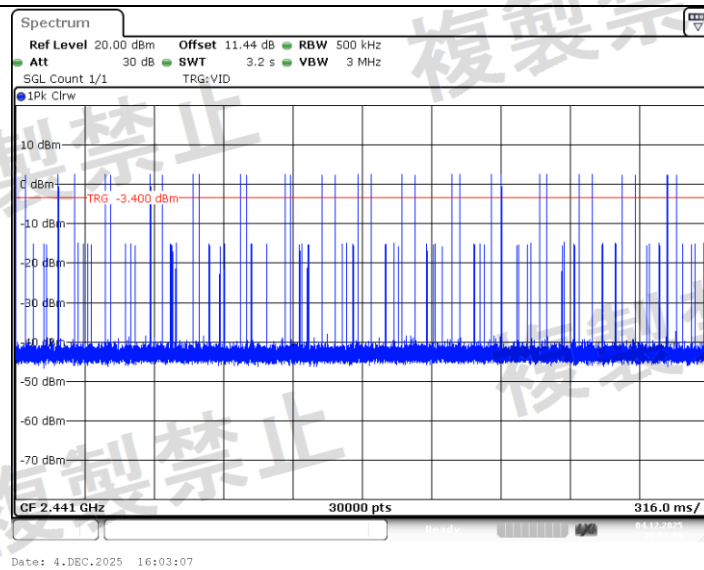
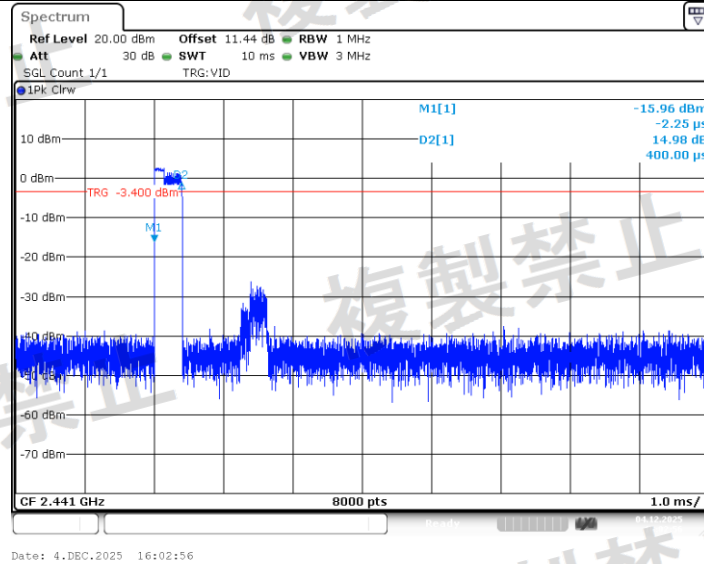




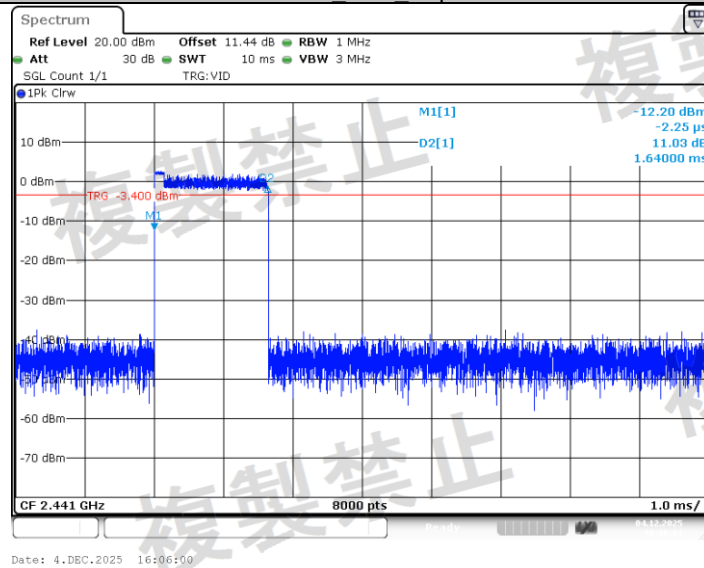
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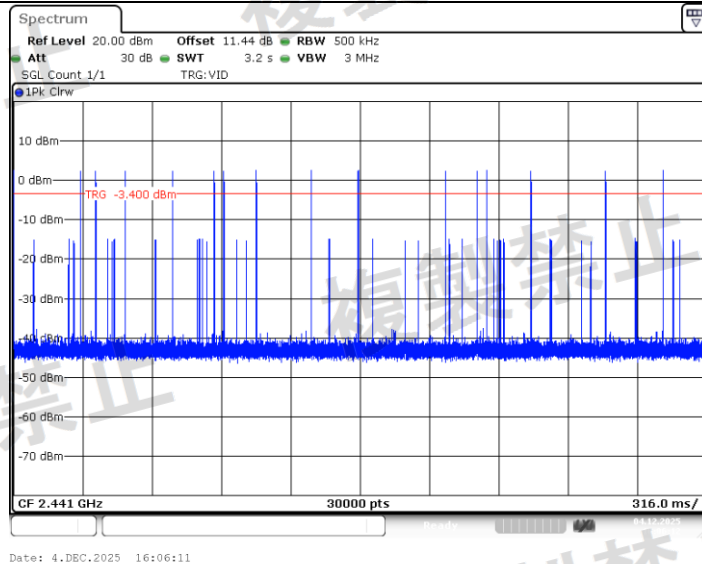


3DH1_Ant1_Hop

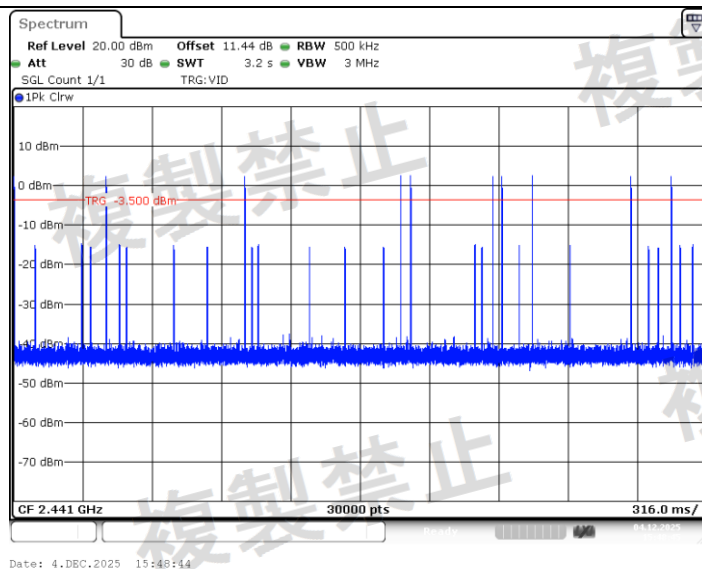
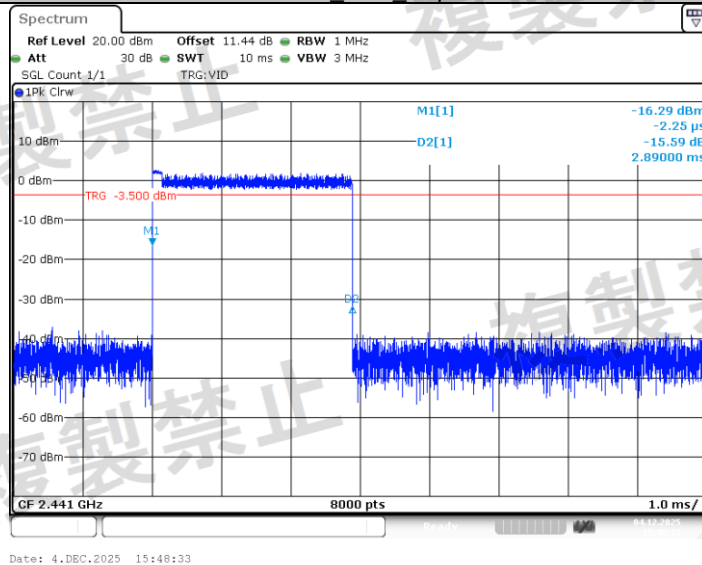


3DH3 Ant1 Hop



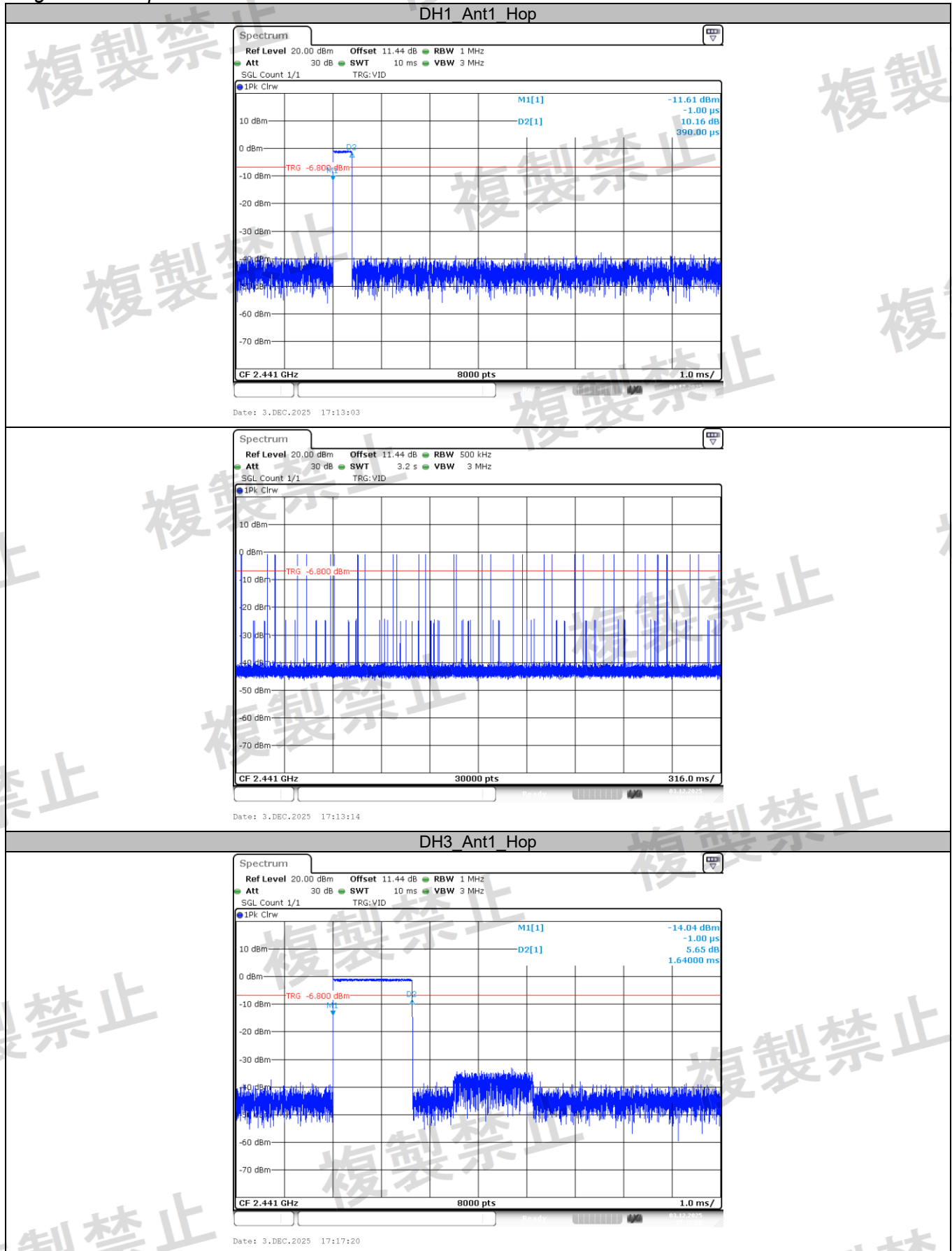


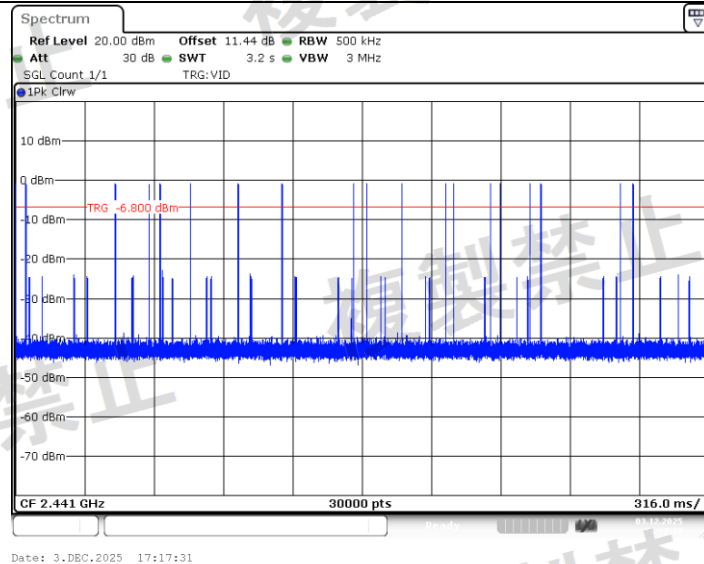
3DH5_Ant1_Hop



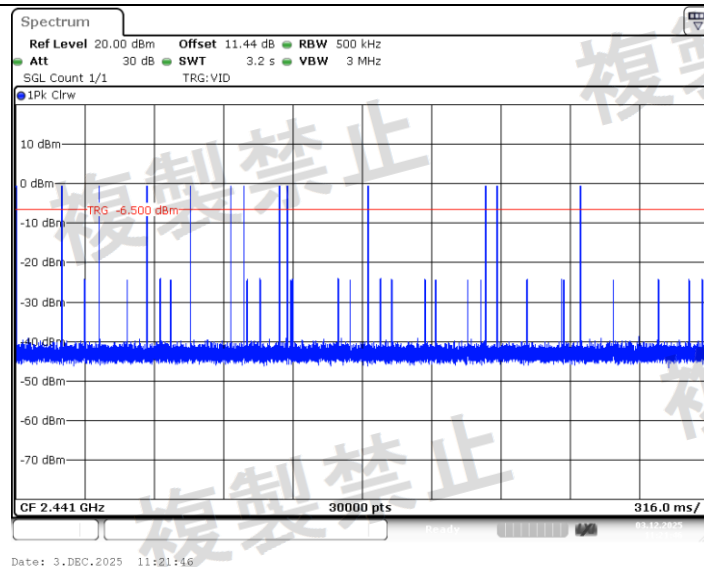
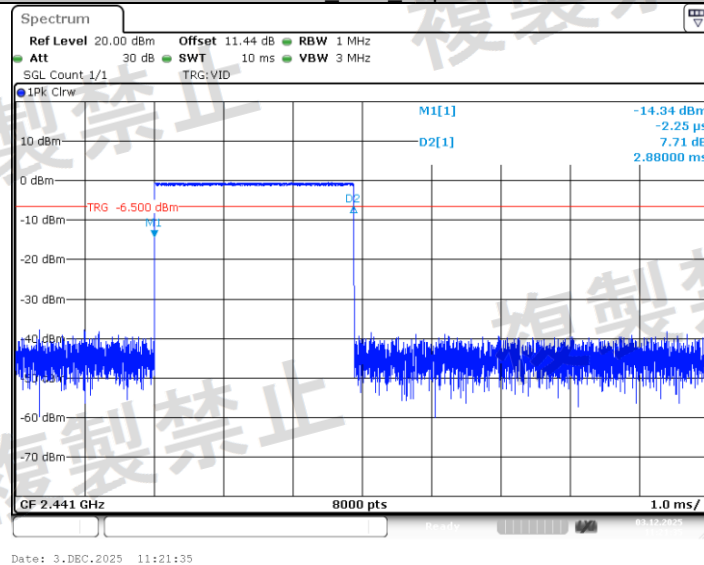


Right ear Test plot as follows:

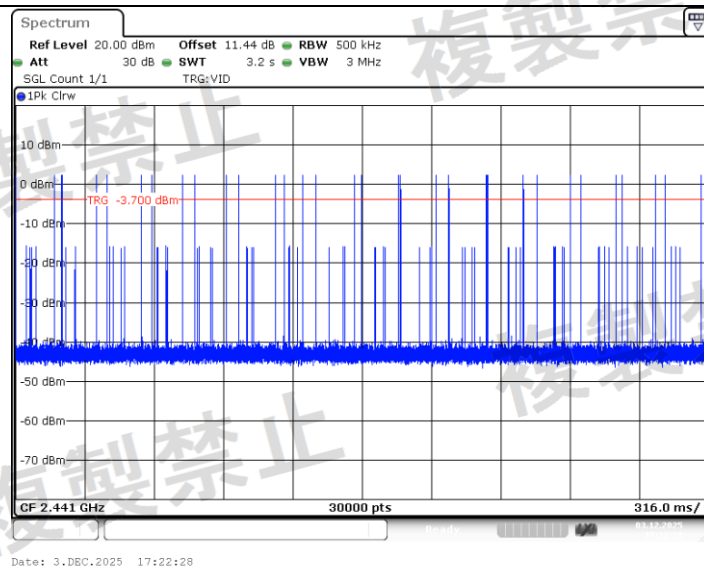
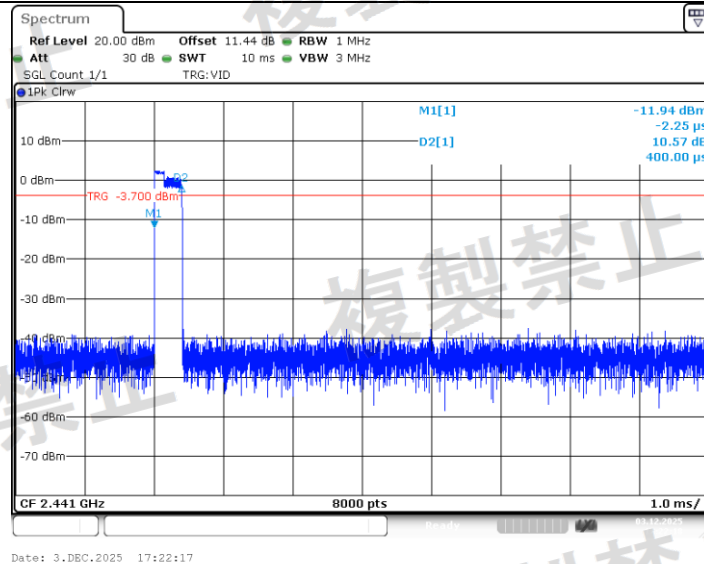




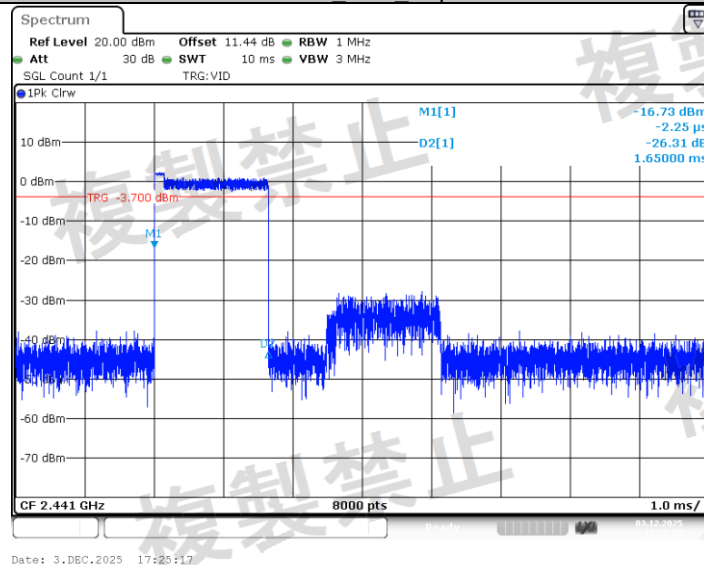
DH5_Ant1_Hop

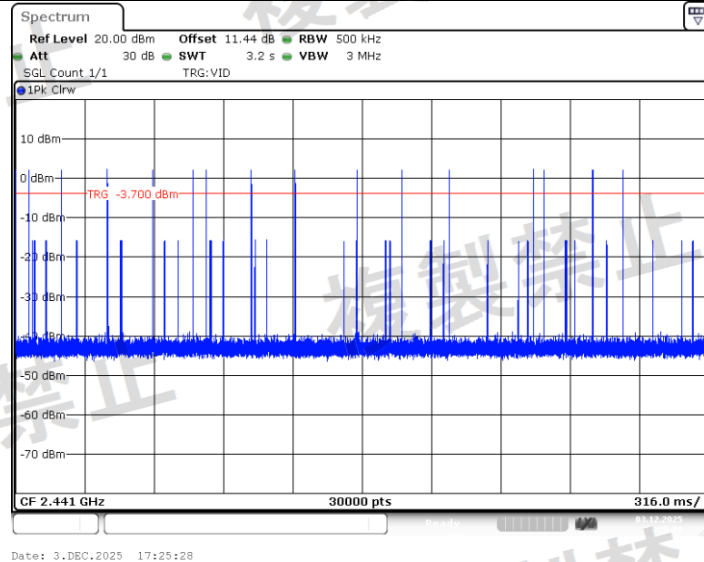


2DH1_Ant1_Hop

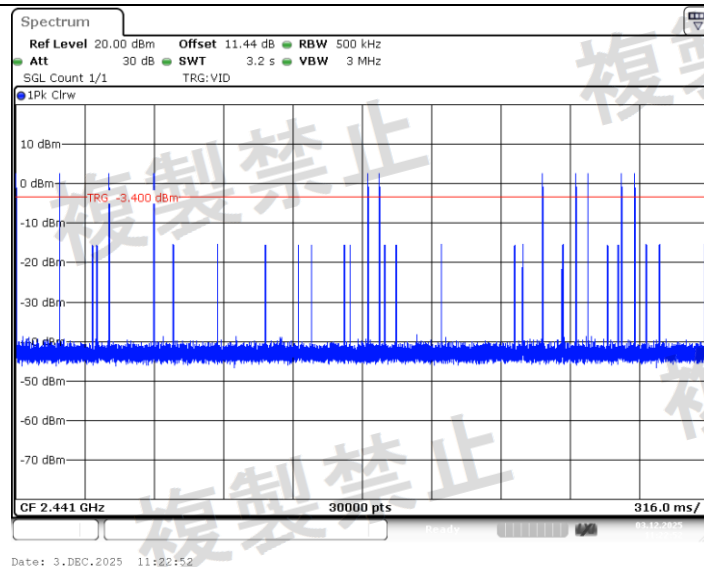
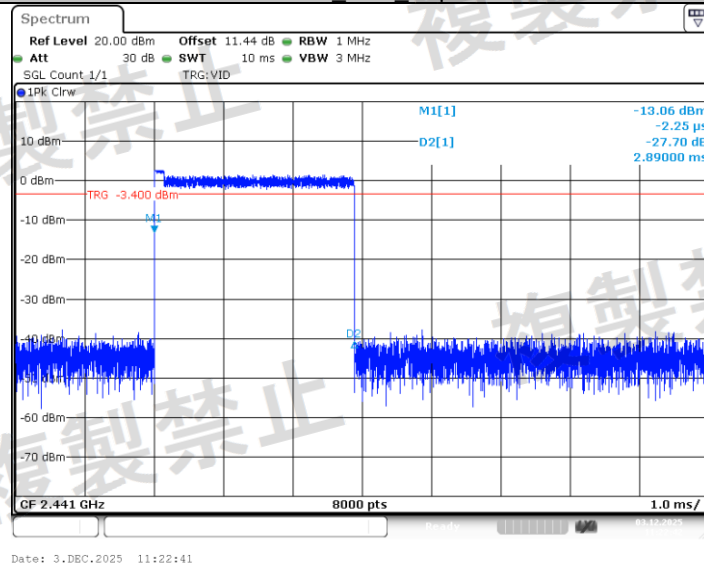


2DH3 Ant1 Hop

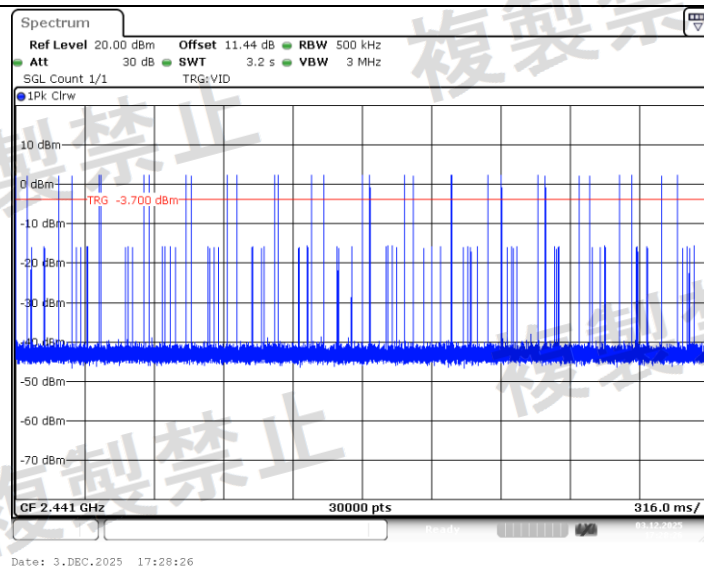
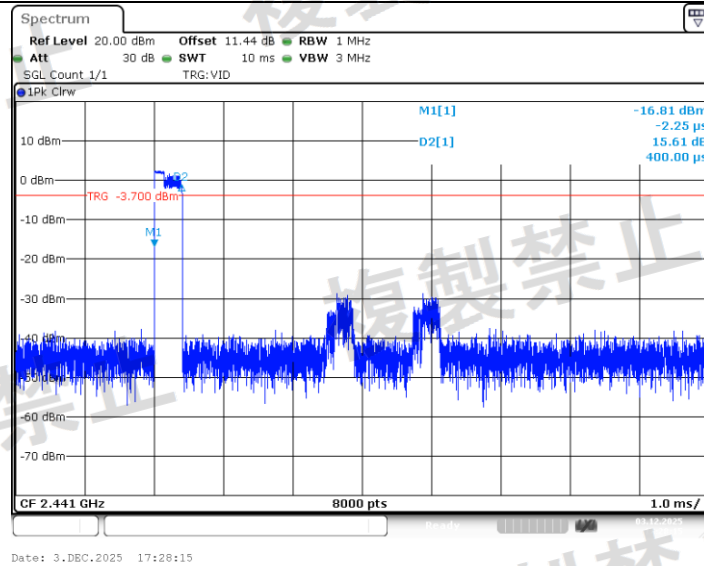




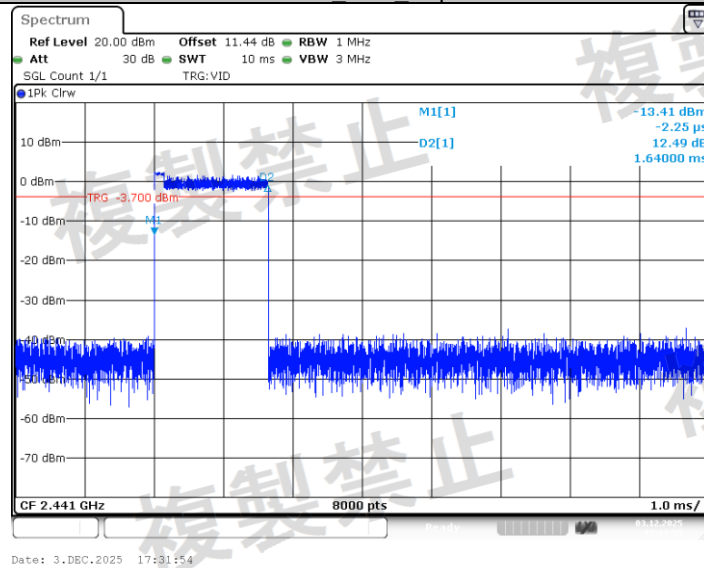
2DH5_Ant1_Hop

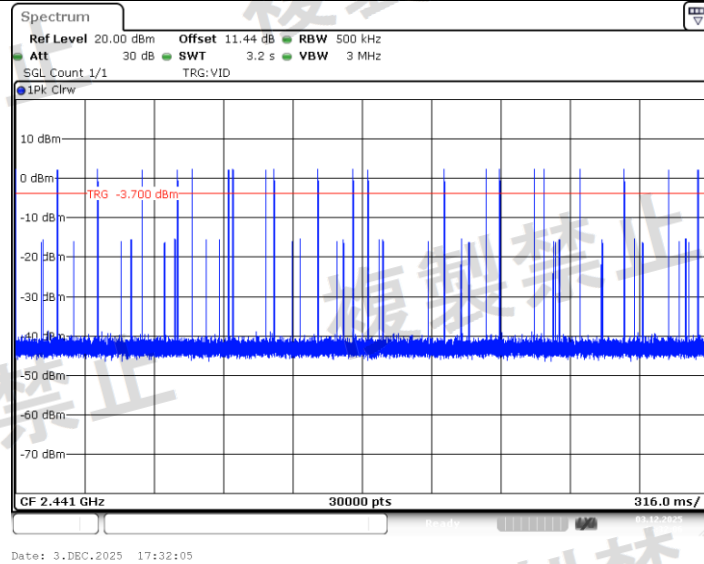


3DH1_Ant1_Hop

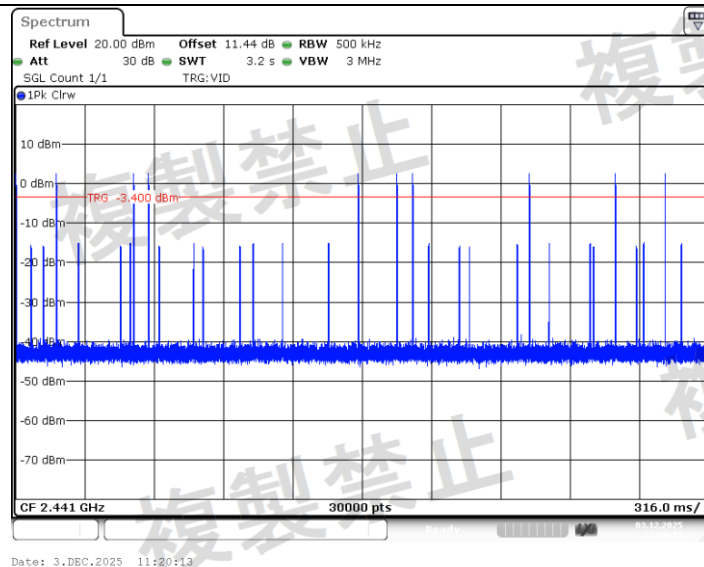
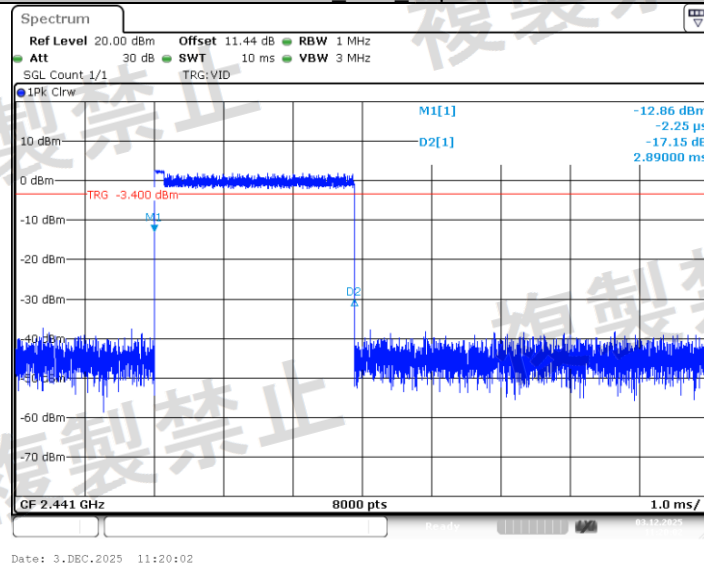


3DH3 Ant1 Hop





3DH5_Ant1_Hop





3.5. Spurious emission intensity

LIMIT

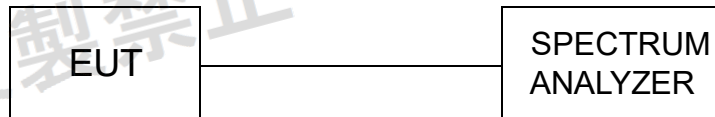
30MHz to 2387MHz: 2.5 μ W/MHz (-26dBm) or less

2387MH to 2400MHz: 25 μ W/MHz (-16dBm) or less

2483.5MH to 2496.5MHz: 25 μ W/MHz (-16dBm) or less

Over 2496.5 MHz: 2.5 μ W/MHz (-26dBm) or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: Modulation

Spectrum Condition:

Frequency: 30MHz-12.5GHz

RBW: 1MHz

VBW: MHz

Sweep time: Auto

Detector mode: Positive peak

Indication mode: Max hold

TEST RESULTS

Left ear DC 5V									
Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
DH5	Ant1	2402	30~2387	2096.50	-45.89	$\leq$ -26	0.02576	$\leq$ 2.5	PASS
			2387~2400	2399.97	-37.25	$\leq$ -16	0.18836	$\leq$ 25	PASS
			2483.5~2496.5	2486.83	-39.75	$\leq$ -16	0.10593	$\leq$ 25	PASS
			2496.5~12500	6987.57	-39.35	$\leq$ -26	0.11614	$\leq$ 2.5	PASS
		2441	30~2387	1950.37	-46.28	$\leq$ -26	0.02355	$\leq$ 2.5	PASS
			2387~2400	2388.29	-46.04	$\leq$ -16	0.02489	$\leq$ 25	PASS
			2483.5~2496.5	2487.55	-40.13	$\leq$ -16	0.09705	$\leq$ 25	PASS
			2496.5~12500	6960.06	-40.15	$\leq$ -26	0.09661	$\leq$ 2.5	PASS
		2480	30~2387	1685.20	-46.41	$\leq$ -26	0.02286	$\leq$ 2.5	PASS
			2387~2400	2389.52	-46.20	$\leq$ -16	0.02399	$\leq$ 25	PASS
			2483.5~2496.5	2484.55	-40.16	$\leq$ -16	0.09638	$\leq$ 25	PASS
			2496.5~12500	6987.57	-39.62	$\leq$ -26	0.10914	$\leq$ 2.5	PASS
2DH5	Ant1	2402	30~2387	2303.33	-46.60	$\leq$ -26	0.02188	$\leq$ 2.5	PASS
			2387~2400	2400.00	-29.03	$\leq$ -16	1.25026	$\leq$ 25	PASS
			2483.5~2496.5	2489.08	-40.15	$\leq$ -16	0.09661	$\leq$ 25	PASS
			2496.5~12500	6957.06	-39.68	$\leq$ -26	0.10765	$\leq$ 2.5	PASS
		2441	30~2387	1725.86	-46.42	$\leq$ -26	0.02280	$\leq$ 2.5	PASS
			2387~2400	2388.68	-46.00	$\leq$ -16	0.02512	$\leq$ 25	PASS
			2483.5~2496.5	2495.82	-39.81	$\leq$ -16	0.10447	$\leq$ 25	PASS
			2496.5~12500	6988.07	-39.40	$\leq$ -26	0.11482	$\leq$ 2.5	PASS
		2480	30~2387	1896.74	-46.38	$\leq$ -26	0.02301	$\leq$ 2.5	PASS
			2387~2400	2396.58	-45.90	$\leq$ -16	0.02570	$\leq$ 25	PASS

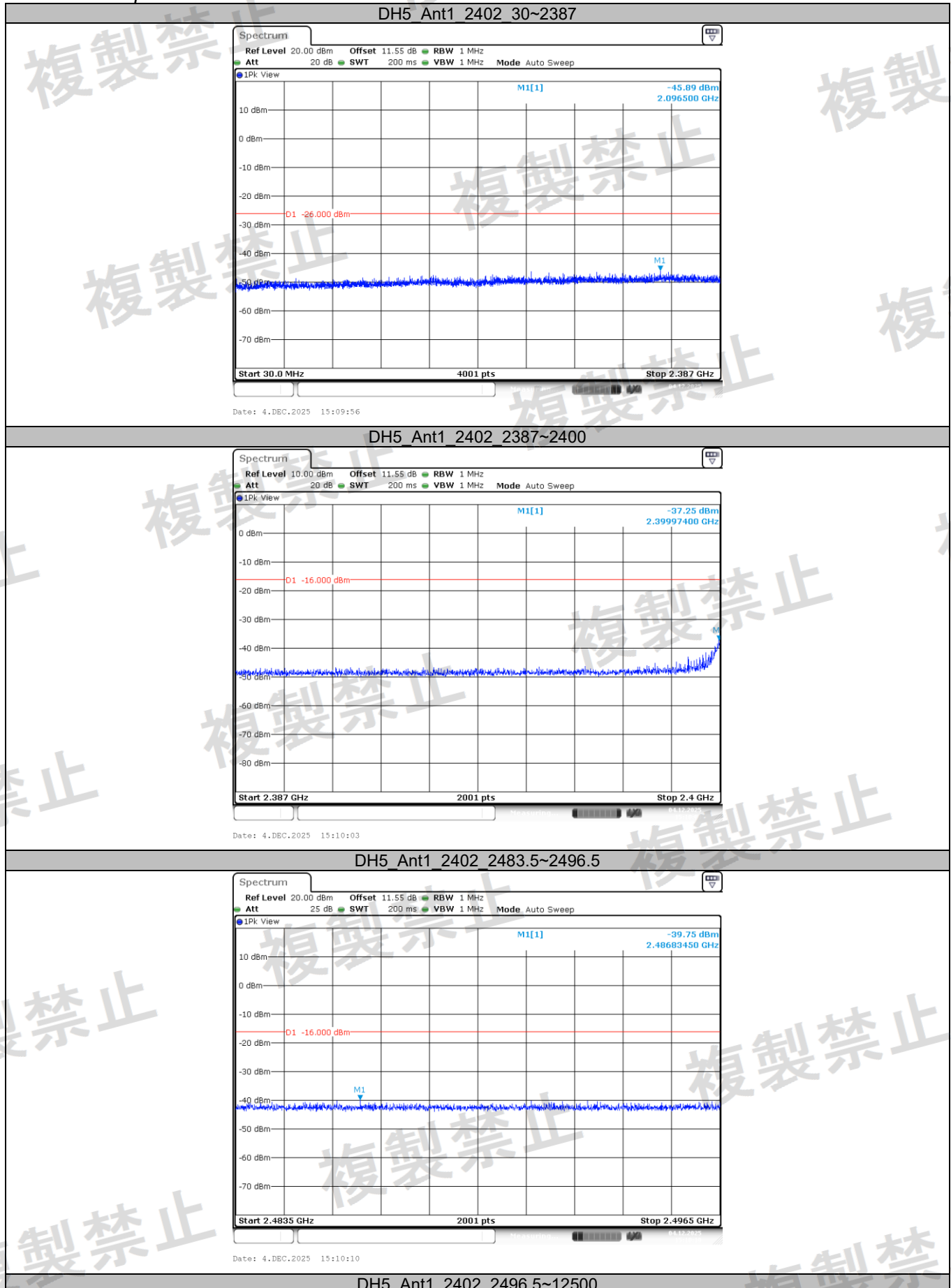


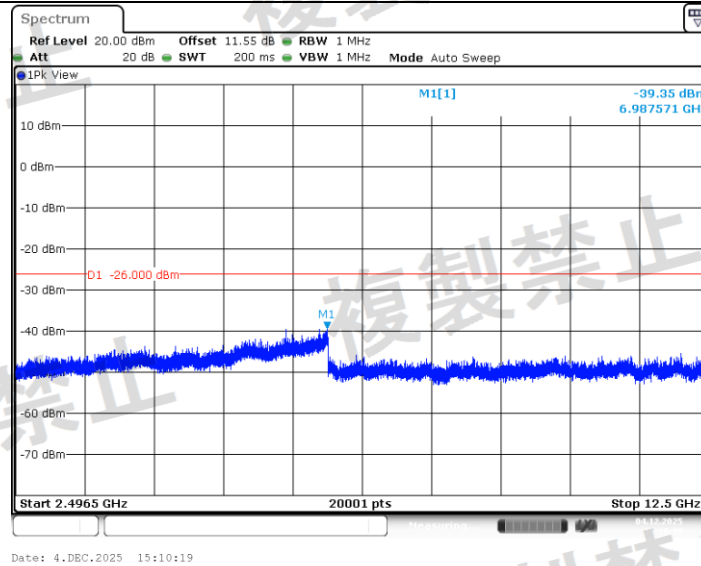
3DH5	Ant1	2402	2483.5~2496.5	2483.51	-39.62	≤-16	0.10914	≤25	PASS
			2496.5~12500	6997.07	-38.84	≤-26	0.13062	≤2.5	PASS
			30~2387	2262.08	-46.03	≤-26	0.02495	≤2.5	PASS
			2387~2400	2400.00	-28.99	≤-16	1.26183	≤25	PASS
			2483.5~2496.5	2484.09	-39.94	≤-16	0.10139	≤25	PASS
		2441	2496.5~12500	6996.07	-39.42	≤-26	0.11429	≤2.5	PASS
			30~2387	834.92	-41.80	≤-26	0.06607	≤2.5	PASS
			2387~2400	2387.20	-45.56	≤-16	0.02780	≤25	PASS
			2483.5~2496.5	2492.62	-40.42	≤-16	0.09078	≤25	PASS
			2496.5~12500	6883.53	-40.03	≤-26	0.09931	≤2.5	PASS
		2480	30~2387	2359.89	-46.43	≤-26	0.02275	≤2.5	PASS
			2387~2400	2397.48	-46.02	≤-16	0.02500	≤25	PASS
			2483.5~2496.5	2492.40	-40.39	≤-16	0.09141	≤25	PASS
			2496.5~12500	6993.57	-39.75	≤-26	0.10593	≤2.5	PASS

Right ear DC 5V									
Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
DH5	Ant1	2402	30~2387	2186.07	-46.35	≤-26	0.02317	≤2.5	PASS
			2387~2400	2399.99	-36.80	≤-16	0.20893	≤25	PASS
			2483.5~2496.5	2492.79	-39.16	≤-16	0.12134	≤25	PASS
			2496.5~12500	4803.81	-37.61	≤-26	0.17338	≤2.5	PASS
		2441	30~2387	1685.79	-45.73	≤-26	0.02673	≤2.5	PASS
			2387~2400	2396.94	-45.75	≤-16	0.02661	≤25	PASS
			2483.5~2496.5	2492.18	-40.07	≤-16	0.09840	≤25	PASS
			2496.5~12500	4882.33	-36.89	≤-26	0.20464	≤2.5	PASS
		2480	30~2387	1695.22	-46.31	≤-26	0.02339	≤2.5	PASS
			2387~2400	2390.37	-46.49	≤-16	0.02244	≤25	PASS
			2483.5~2496.5	2485.68	-39.75	≤-16	0.10593	≤25	PASS
			2496.5~12500	4959.86	-36.21	≤-26	0.23933	≤2.5	PASS
2DH5	Ant1	2402	30~2387	2134.21	-45.89	≤-26	0.02576	≤2.5	PASS
			2387~2400	2399.99	-31.14	≤-16	0.76913	≤25	PASS
			2483.5~2496.5	2484.36	-40.43	≤-16	0.09057	≤25	PASS
			2496.5~12500	4803.31	-36.43	≤-26	0.22751	≤2.5	PASS
		2441	30~2387	2100.62	-45.61	≤-26	0.02748	≤2.5	PASS
			2387~2400	2388.73	-46.47	≤-16	0.02254	≤25	PASS
			2483.5~2496.5	2494.86	-39.22	≤-16	0.11967	≤25	PASS
			2496.5~12500	4881.83	-33.11	≤-26	0.48865	≤2.5	PASS
		2480	30~2387	1729.40	-45.96	≤-26	0.02535	≤2.5	PASS
			2387~2400	2395.44	-45.68	≤-16	0.02704	≤25	PASS
			2483.5~2496.5	2484.45	-40.37	≤-16	0.09183	≤25	PASS
			2496.5~12500	4960.36	-31.87	≤-26	0.65013	≤2.5	PASS
3DH5	Ant1	2402	30~2387	2201.98	-46.08	≤-26	0.02466	≤2.5	PASS
			2387~2400	2400.00	-30.65	≤-16	0.86099	≤25	PASS
			2483.5~2496.5	2493.96	-39.77	≤-16	0.10544	≤25	PASS
			2496.5~12500	4803.81	-37.09	≤-26	0.19543	≤2.5	PASS
		2441	30~2387	2078.82	-46.27	≤-26	0.02360	≤2.5	PASS
			2387~2400	2399.20	-46.23	≤-16	0.02382	≤25	PASS
			2483.5~2496.5	2492.87	-40.33	≤-16	0.09268	≤25	PASS
			2496.5~12500	4881.33	-35.20	≤-26	0.30200	≤2.5	PASS
		2480	30~2387	2073.52	-45.95	≤-26	0.02541	≤2.5	PASS
			2387~2400	2398.65	-45.94	≤-16	0.02547	≤25	PASS
			2483.5~2496.5	2489.81	-39.60	≤-16	0.10965	≤25	PASS
			2496.5~12500	4959.86	-33.91	≤-26	0.40644	≤2.5	PASS

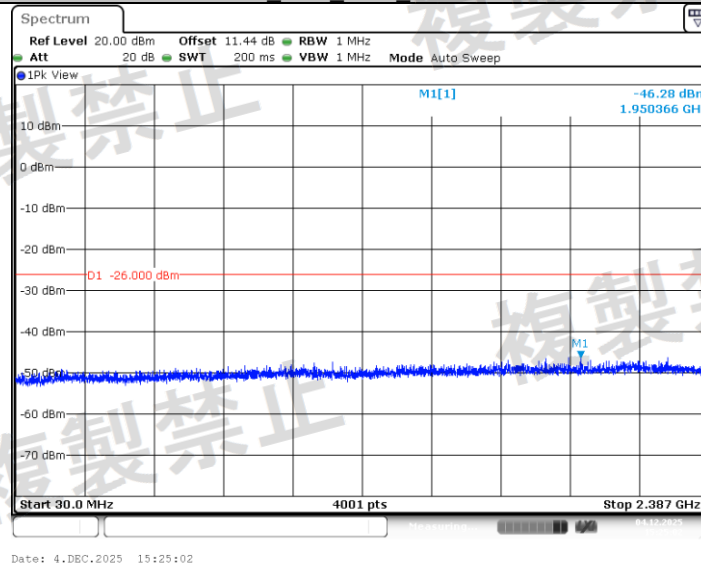


Left ear Test plot as follows:

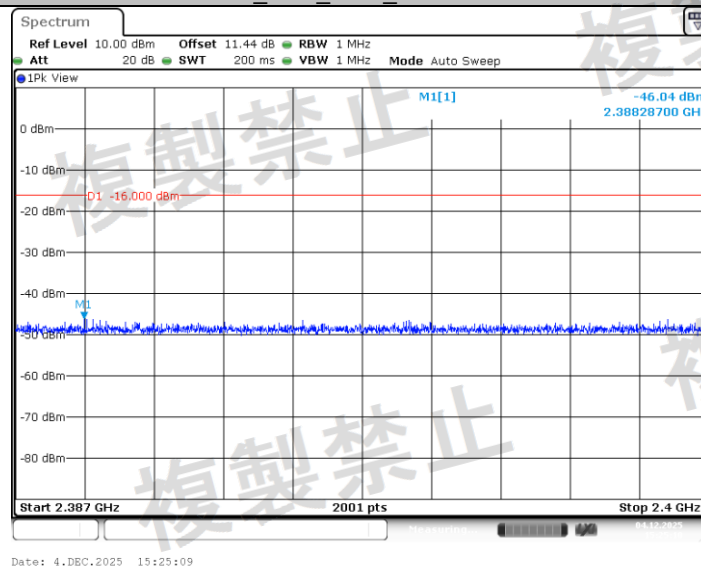




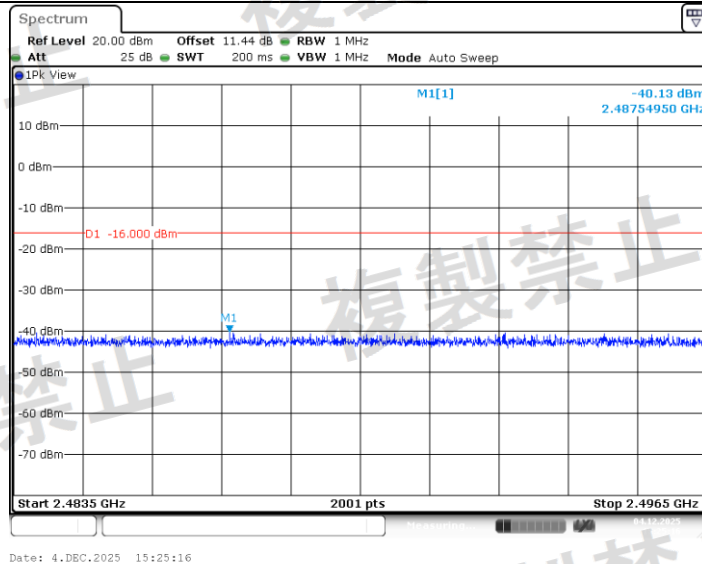
DH5_Ant1_2441_30~2387



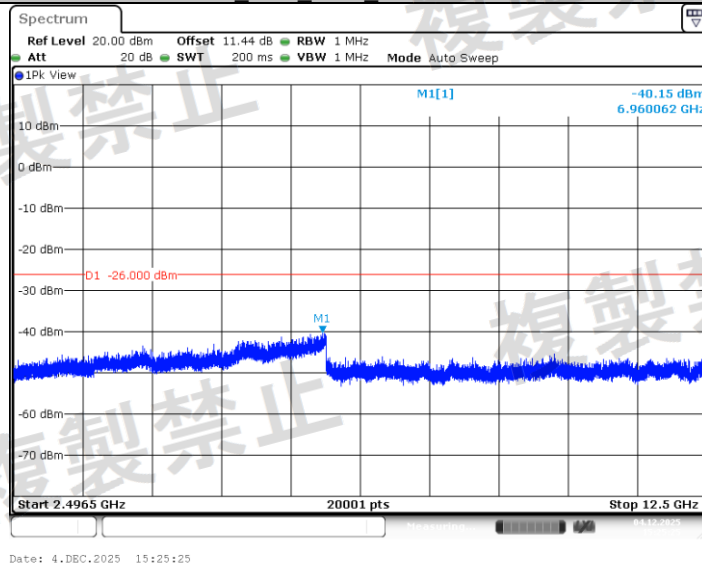
DH5_Ant1_2441_2387~2400



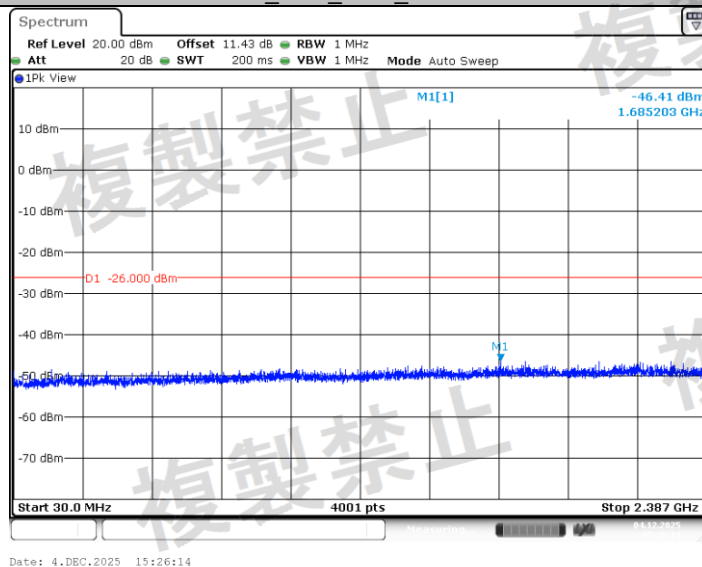
DH5_Ant1_2441_2483.5~2496.5



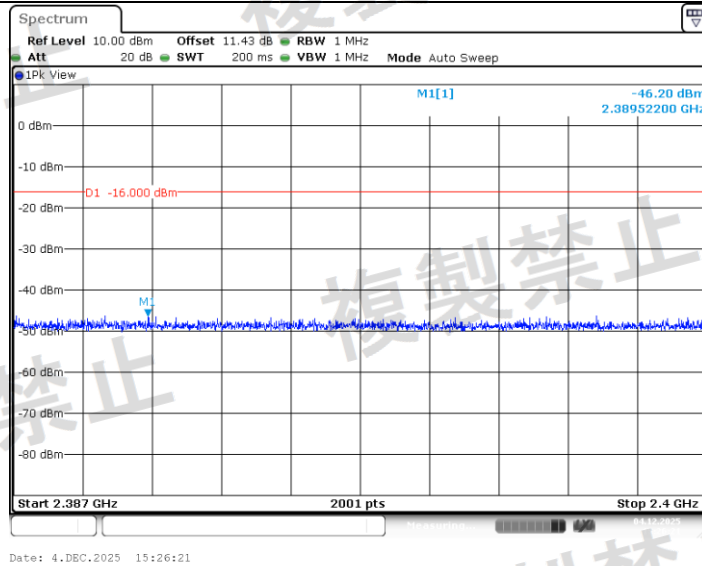
DH5_Ant1_2441_2496.5~12500



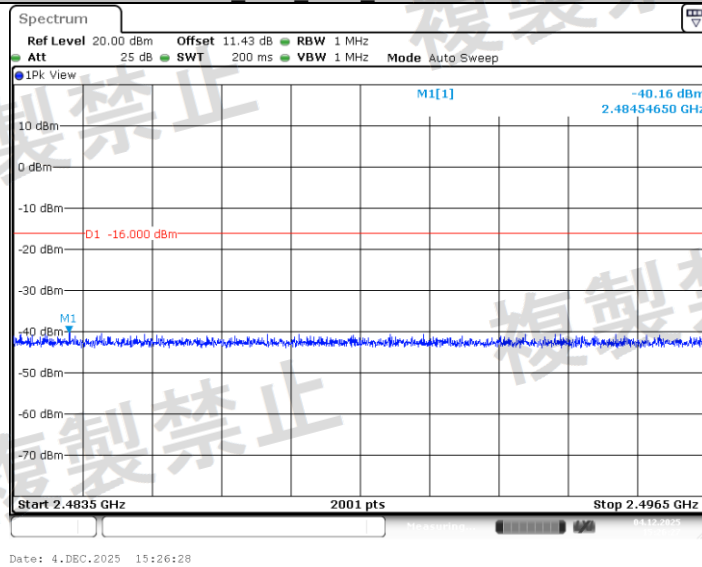
DH5_Ant1_2480_30~2387



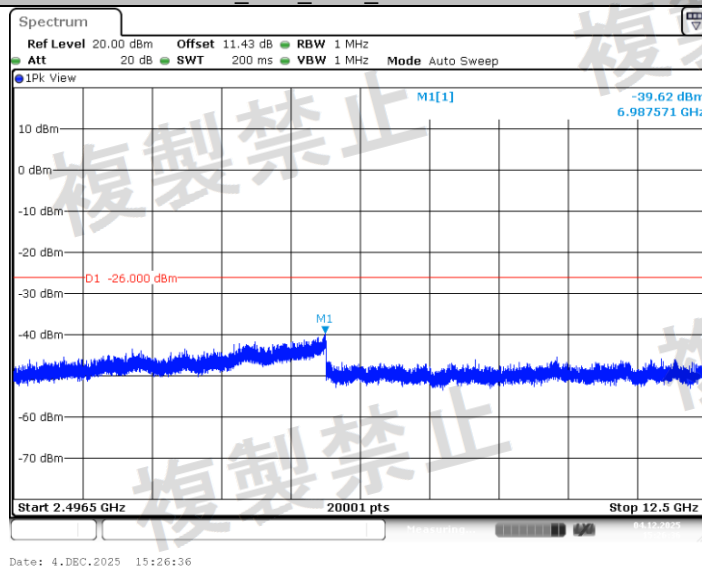
DH5_Ant1_2480_2387~2400



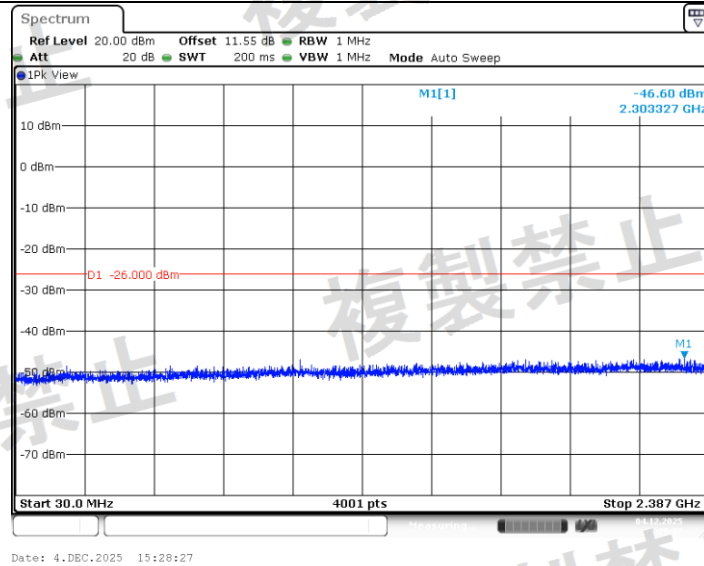
DH5_Ant1_2480_2483.5~2496.5



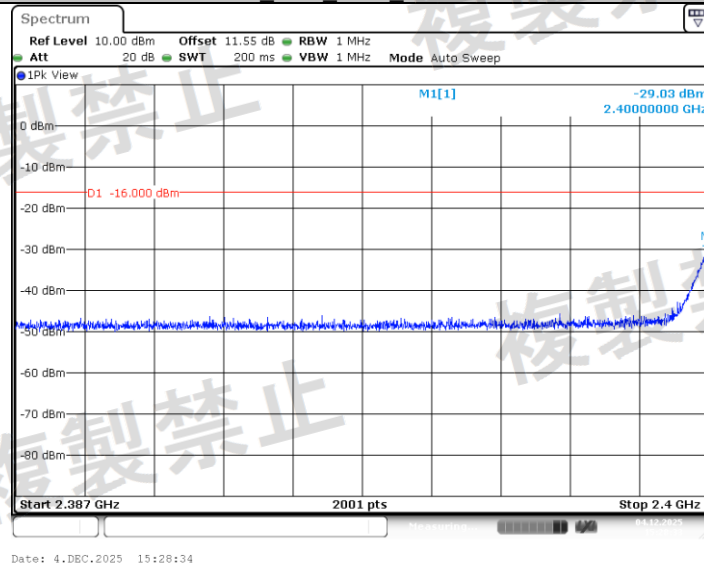
DH5_Ant1_2480_2496.5~12500



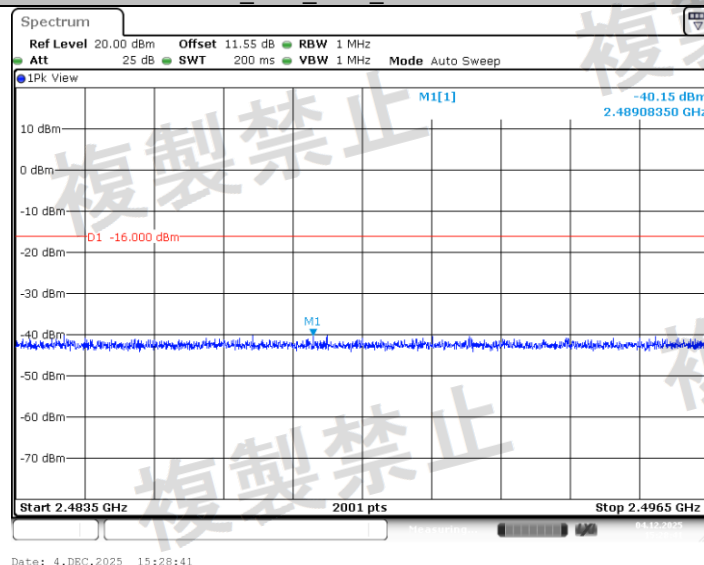
2DH5_Ant1_2402_30~2387



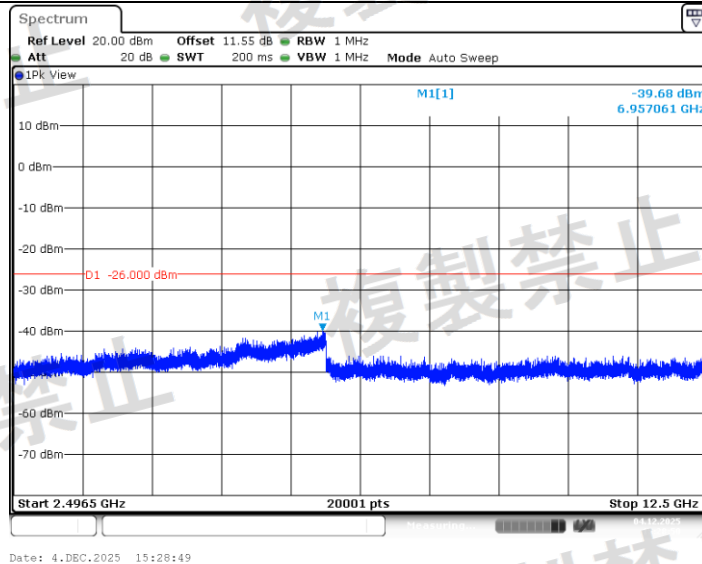
2DH5_Ant1_2402_2387~2400



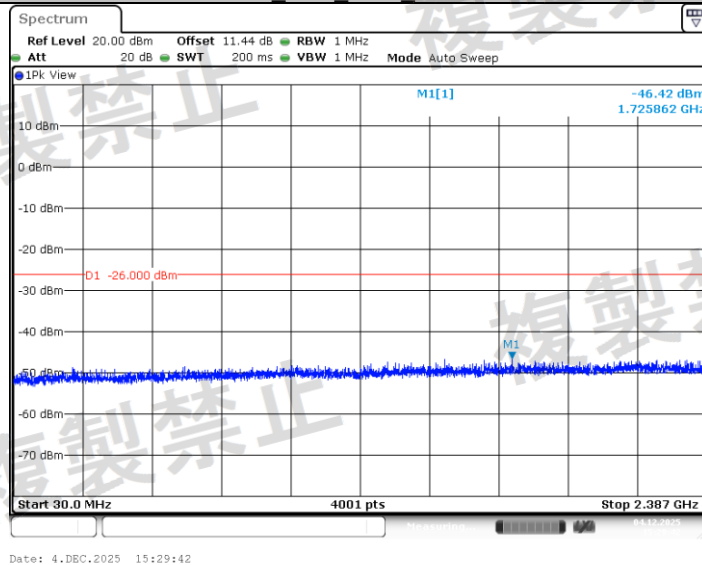
2DH5_Ant1_2402_2483.5~2496.5



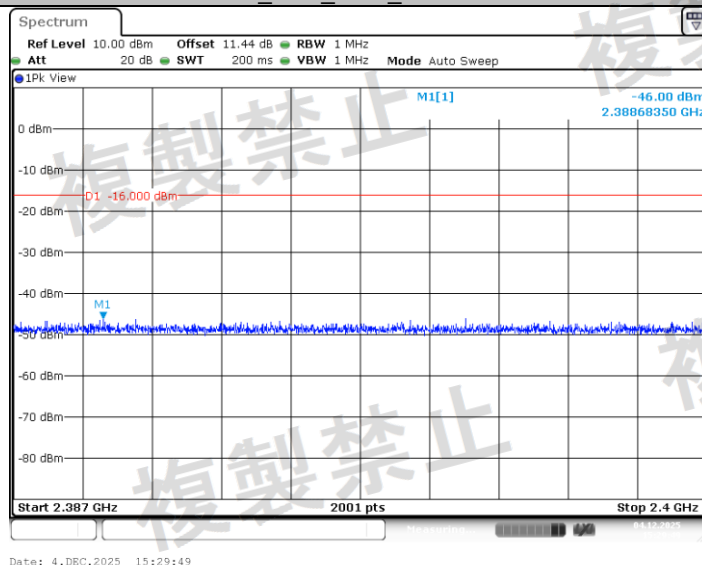
2DH5_Ant1_2402_2496.5~12500



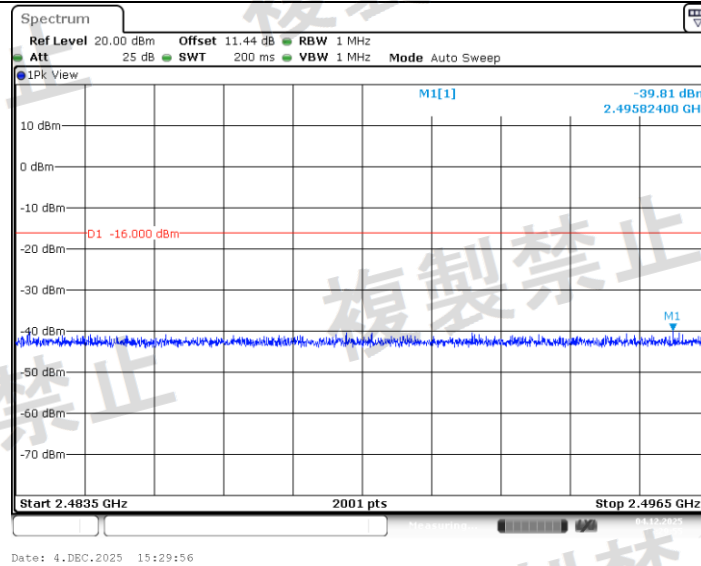
2DH5_Ant1_2441_30~2387



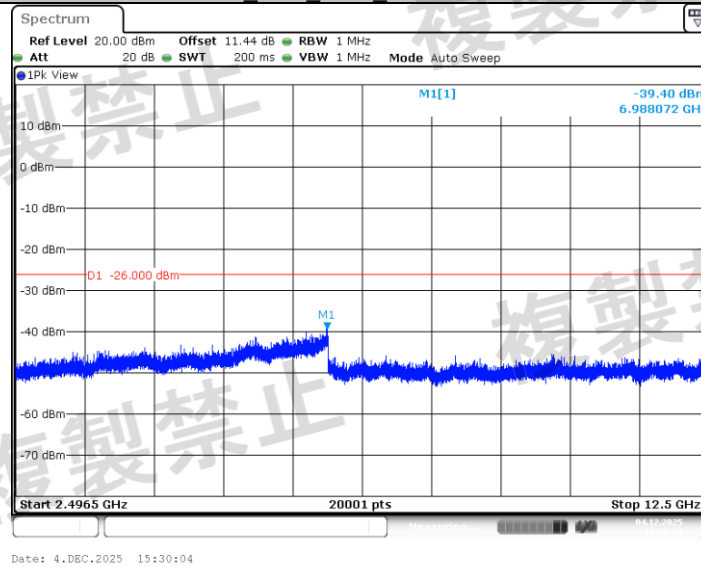
2DH5_Ant1_2441_2387~2400



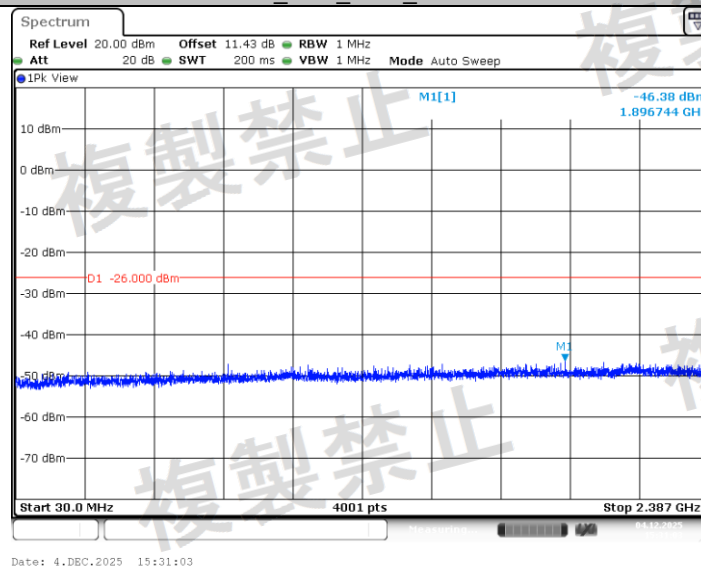
2DH5_Ant1_2441_2483.5~2496.5



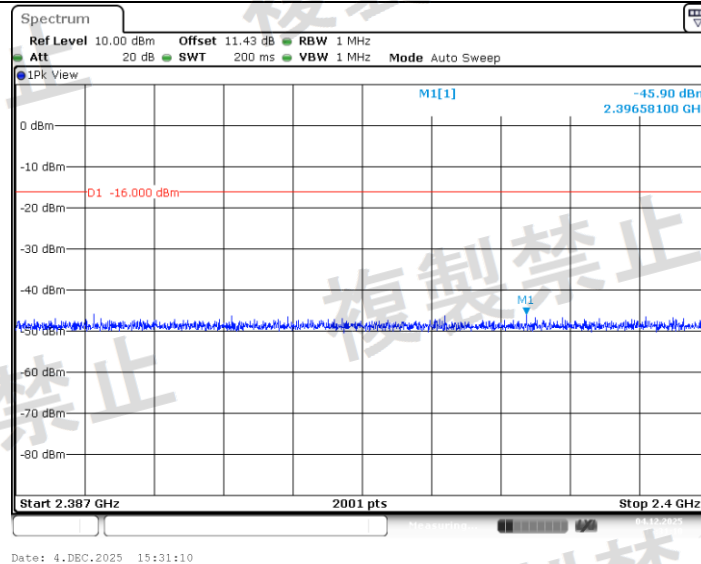
2DH5_Ant1_2441_2496.5~12500



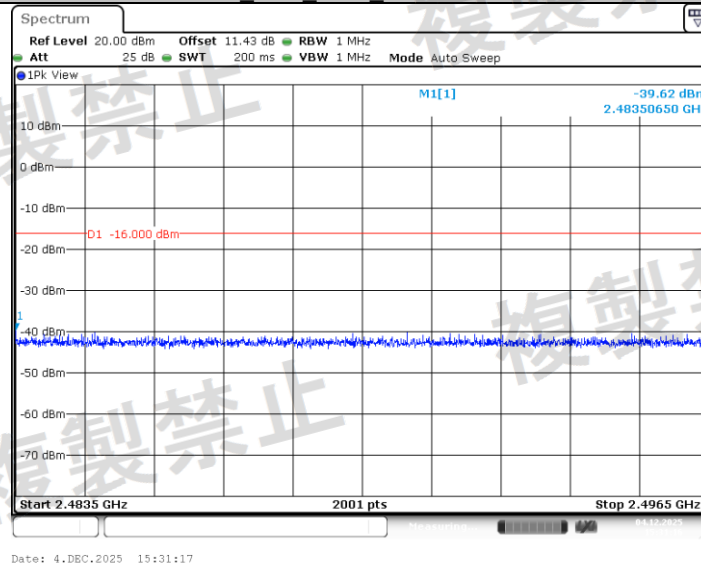
2DH5_Ant1_2480_30~2387



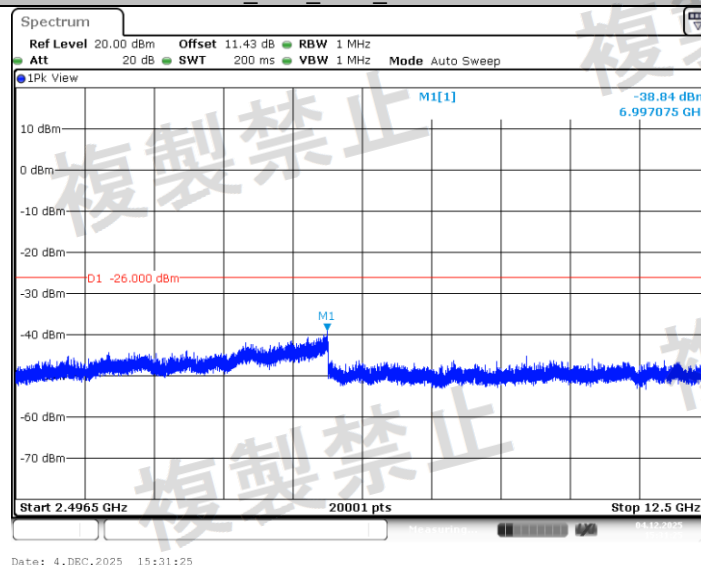
2DH5_Ant1_2480_2387~2400



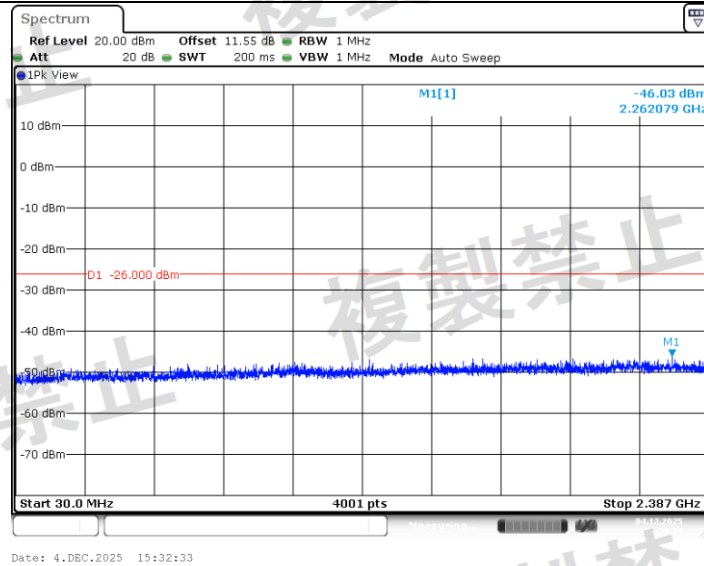
2DH5_Ant1_2480_2483.5~2496.5



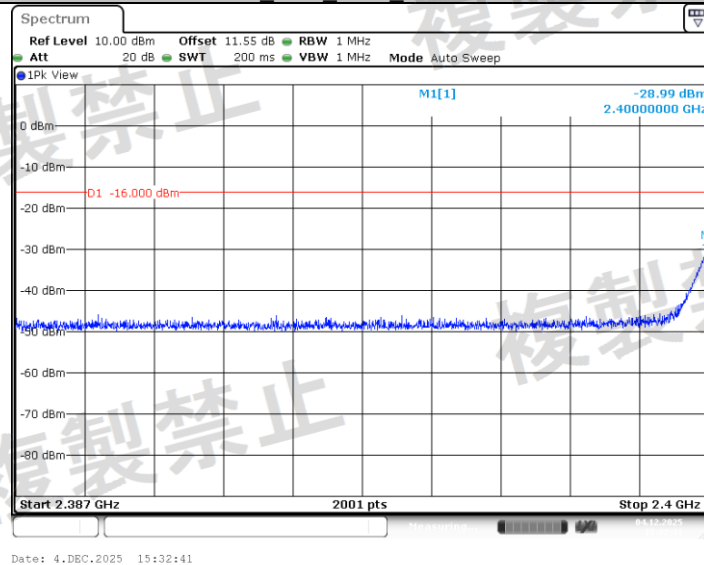
2DH5_Ant1_2480_2496.5~12500



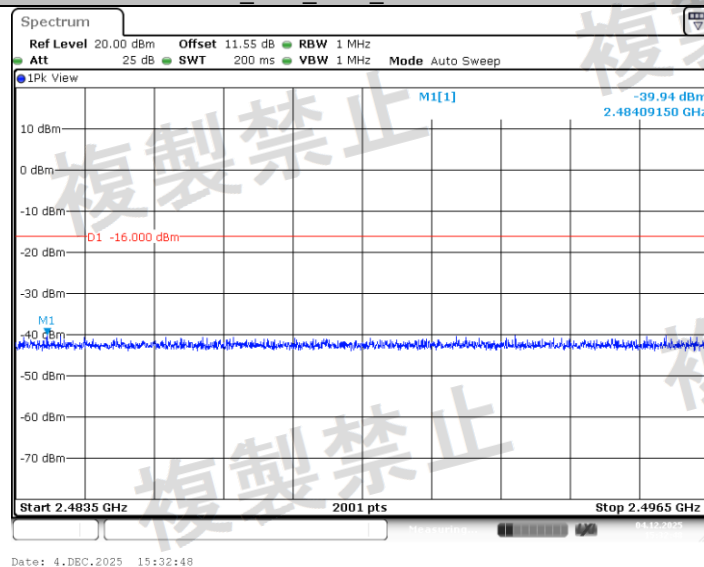
3DH5_Ant1_2402_30~2387



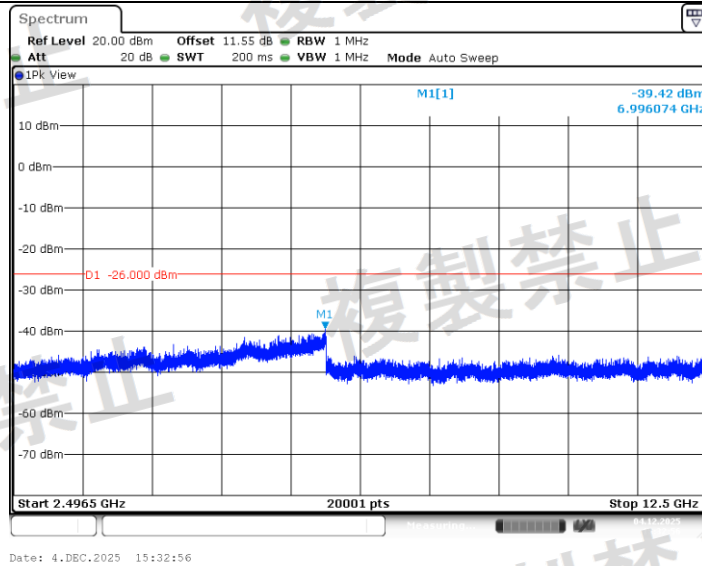
3DH5_Ant1_2402_2387~2400



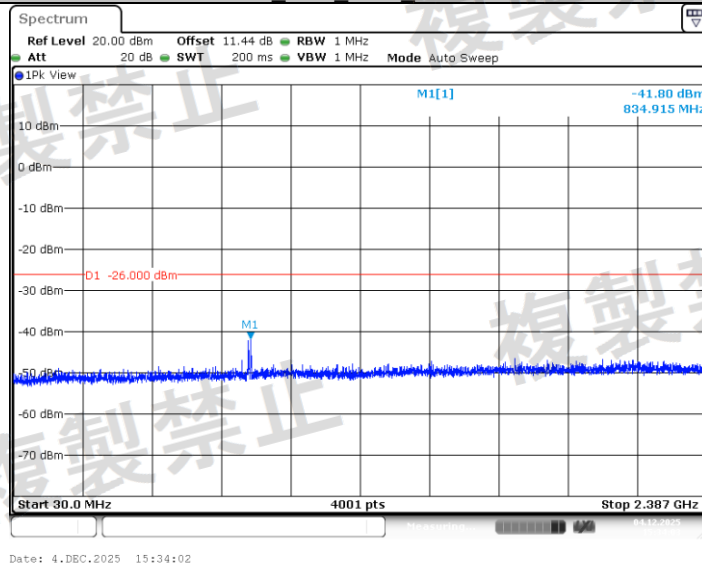
3DH5_Ant1_2402_2483.5~2496.5



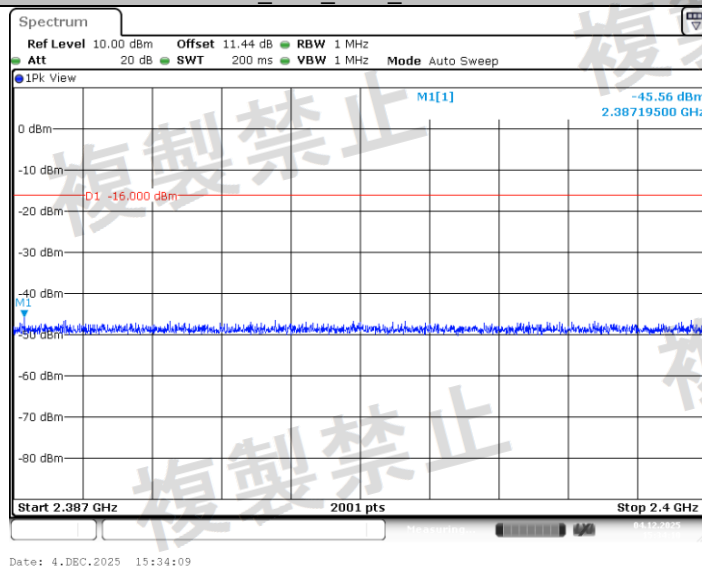
3DH5_Ant1_2402_2496.5~12500



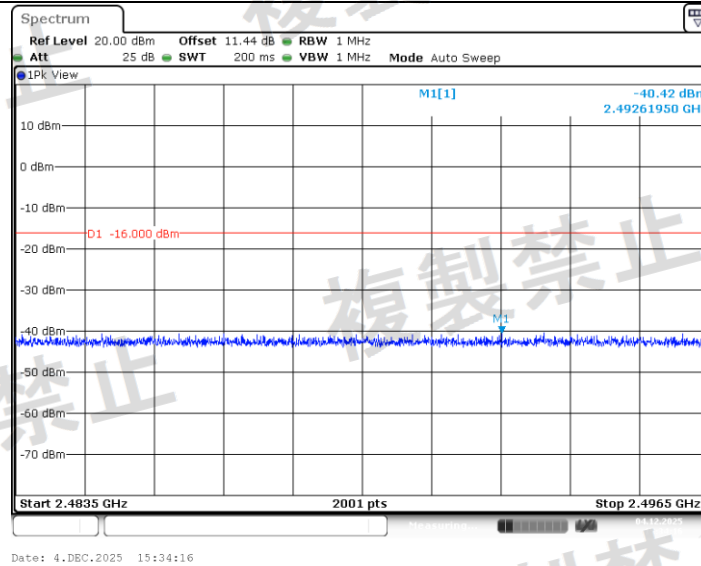
3DH5_Ant1_2441_30~2387



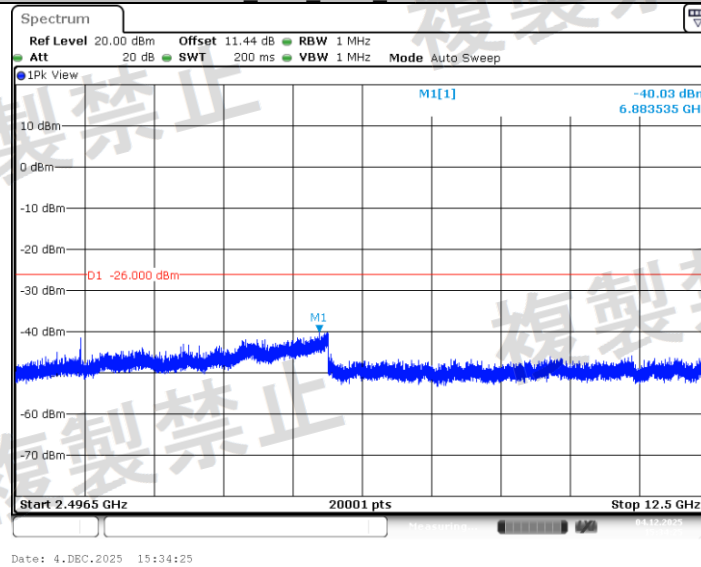
3DH5_Ant1_2441_2387~2400



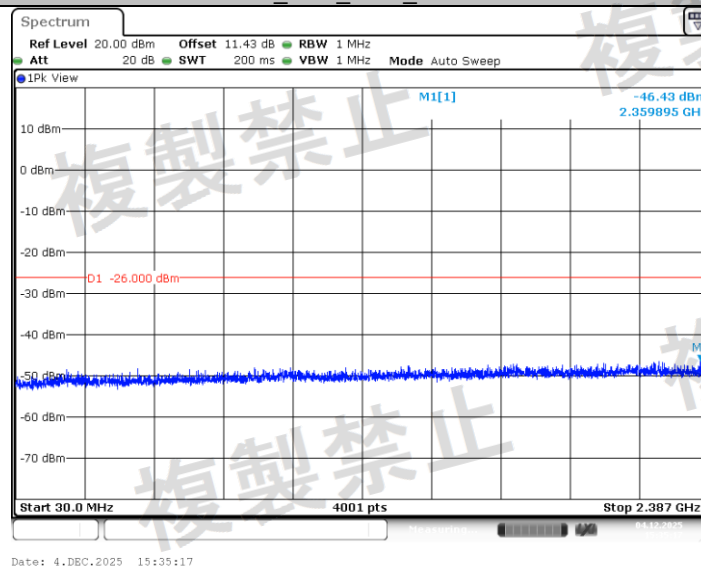
3DH5_Ant1_2441_2483.5~2496.5



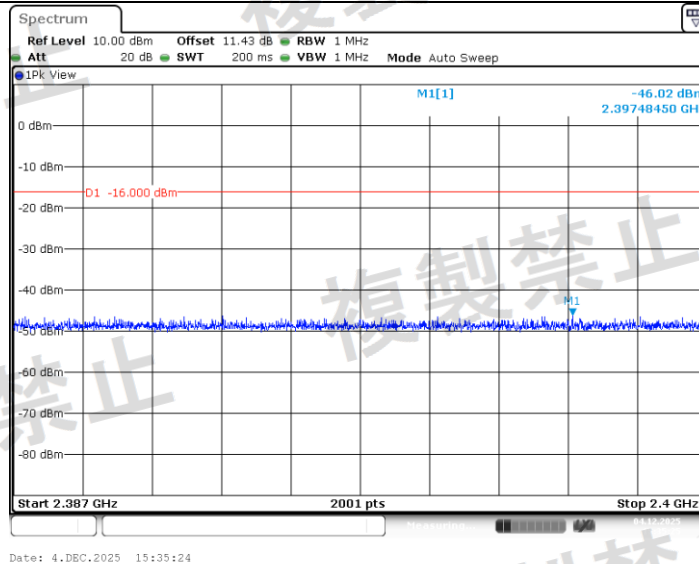
3DH5_Ant1_2441_2496.5~12500



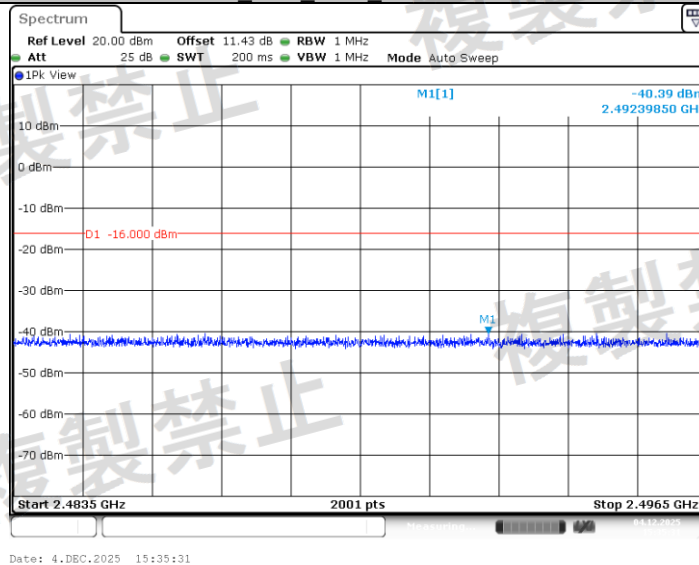
3DH5_Ant1_2480_30~2387



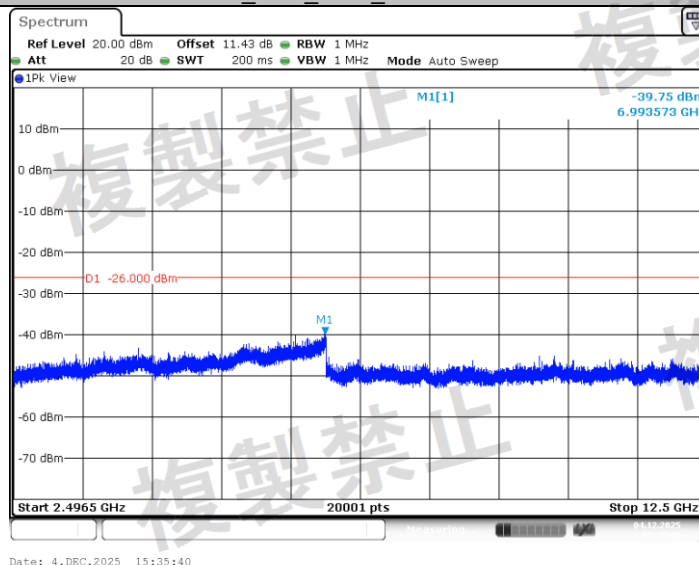
3DH5_Ant1_2480_2387~2400



3DH5_Ant1_2480_2483.5~2496.5

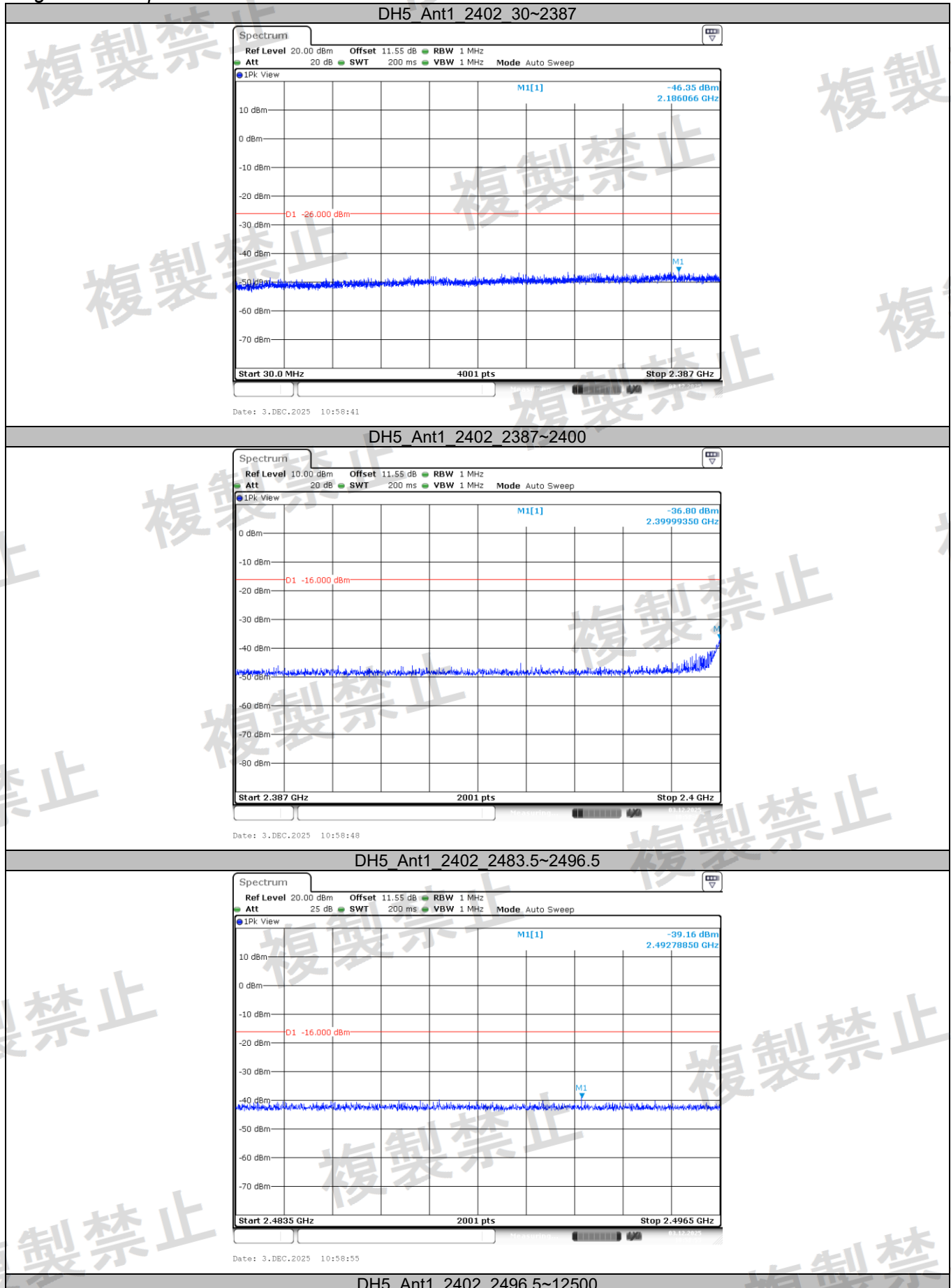


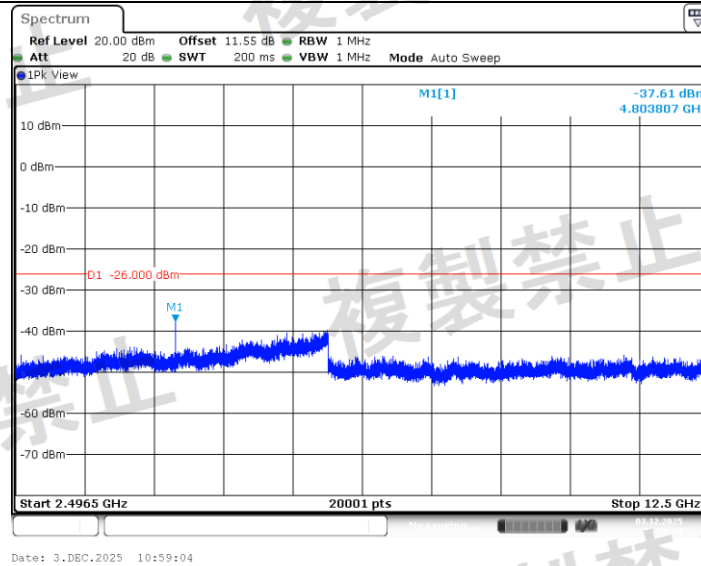
3DH5_Ant1_2480_2496.5~12500



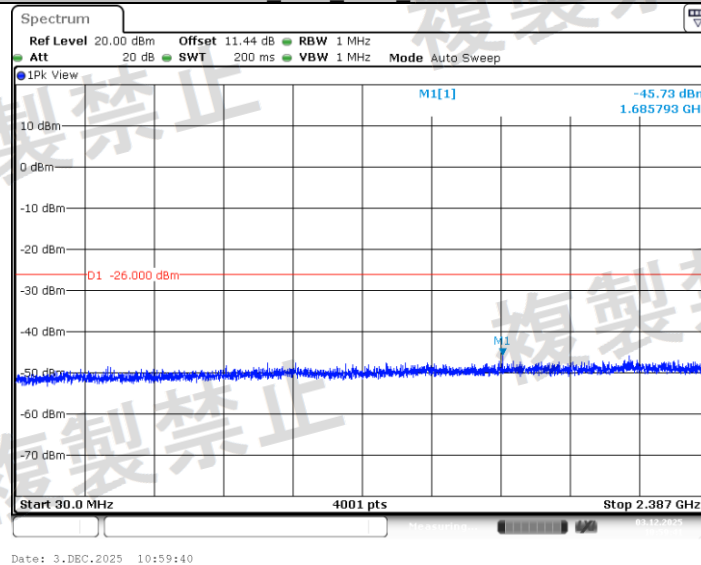


Right ear Test plot as follows:

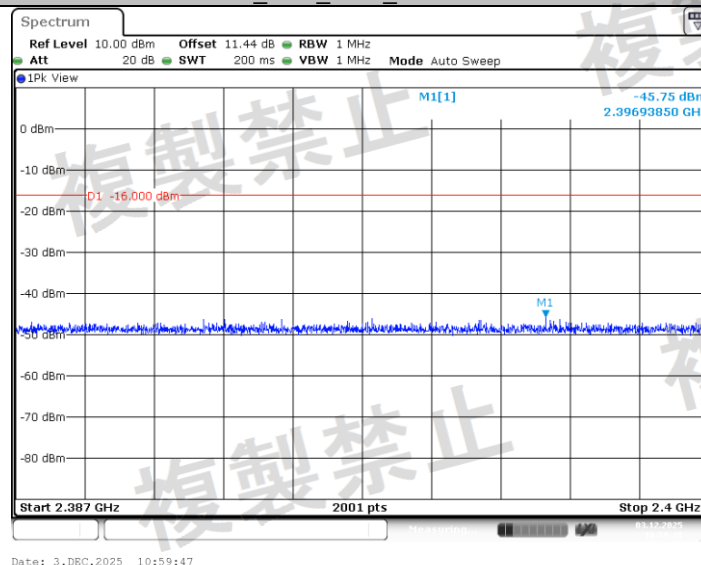




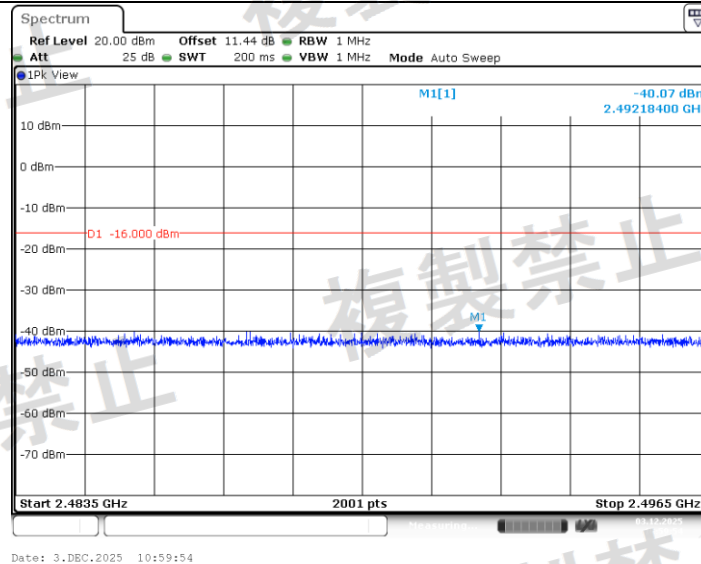
DH5_Ant1_2441_30~2387



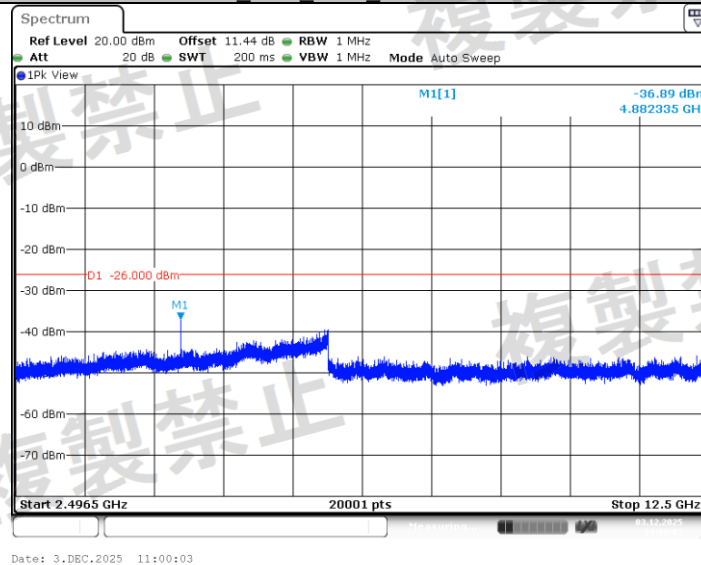
DH5_Ant1_2441_2387~2400



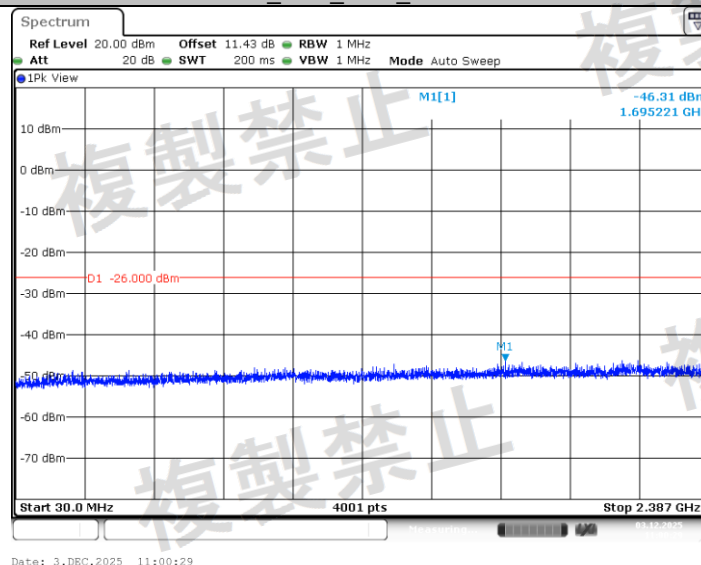
DH5_Ant1_2441_2483.5~2496.5



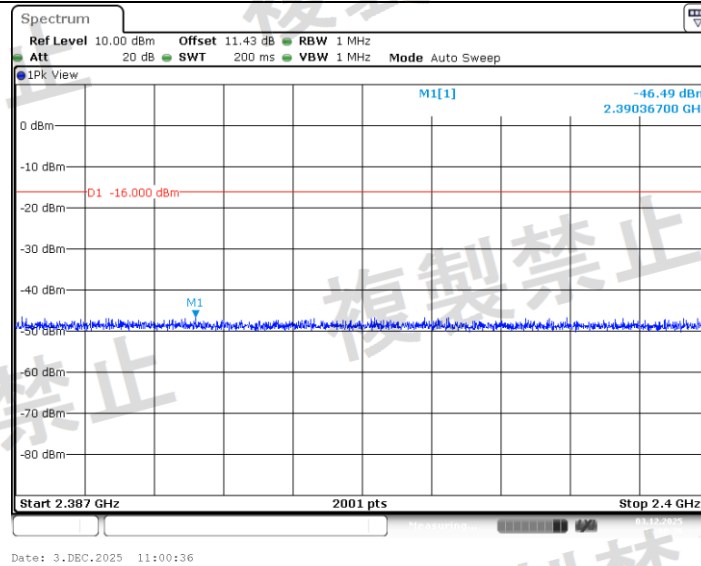
DH5_Ant1_2441_2496.5~12500



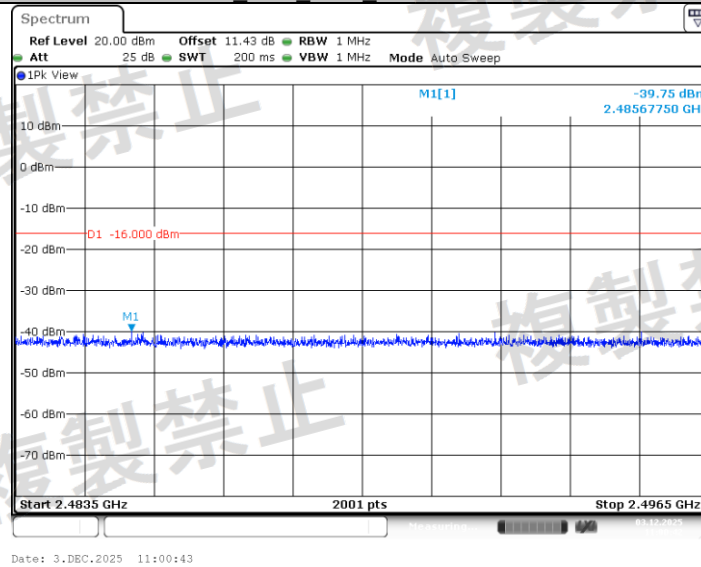
DH5_Ant1_2480_30~2387



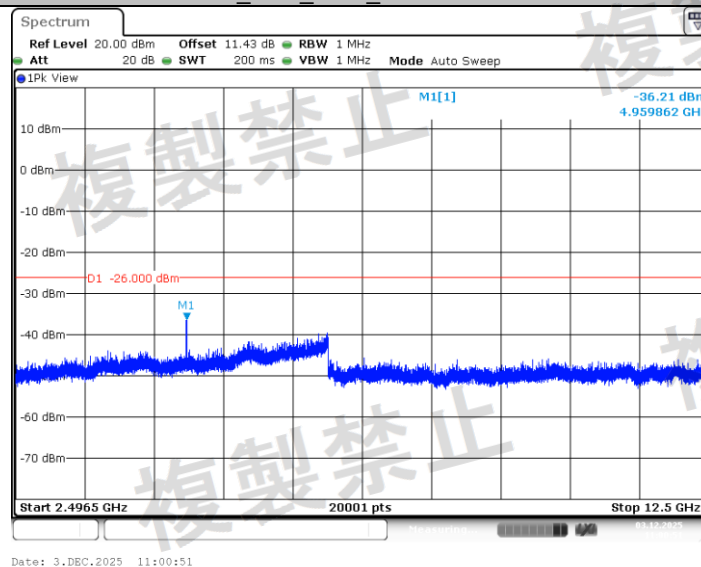
DH5_Ant1_2480_2387~2400



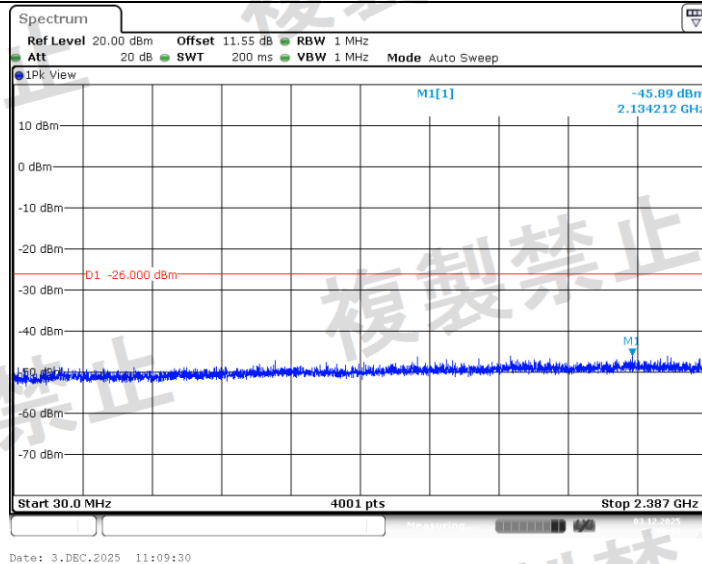
DH5_Ant1_2480_2483.5~2496.5



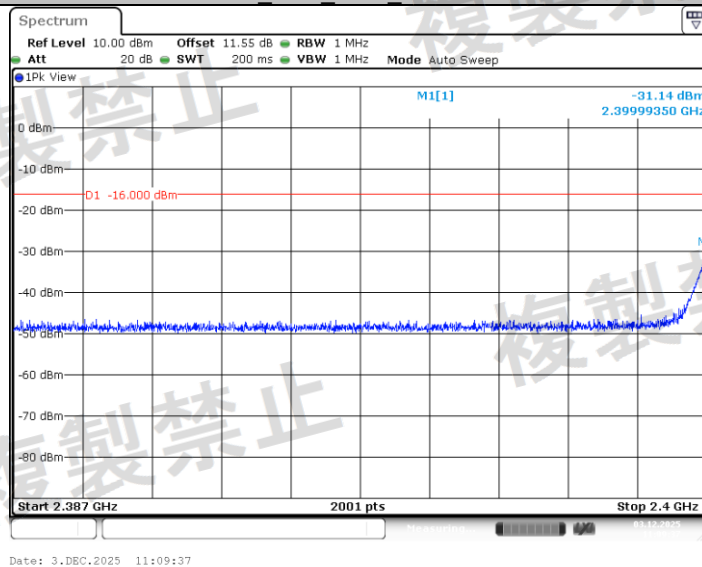
DH5_Ant1_2480_2496.5~12500



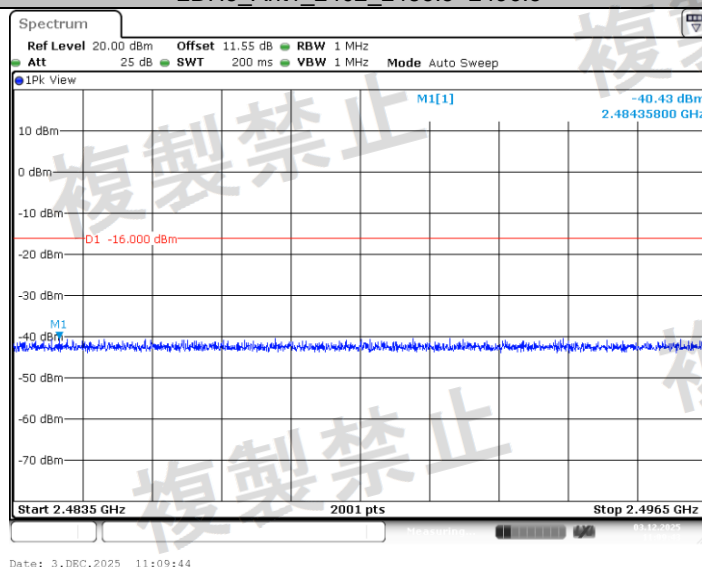
2DH5_Ant1_2402_30~2387



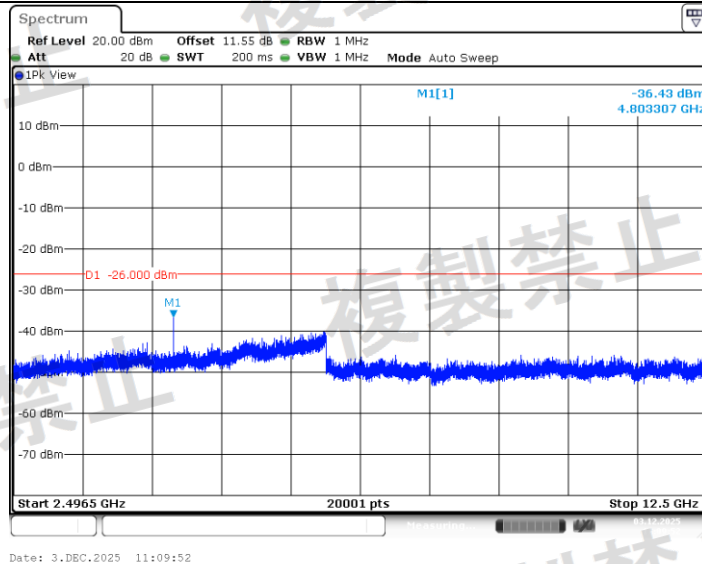
2DH5_Ant1_2402_2387~2400



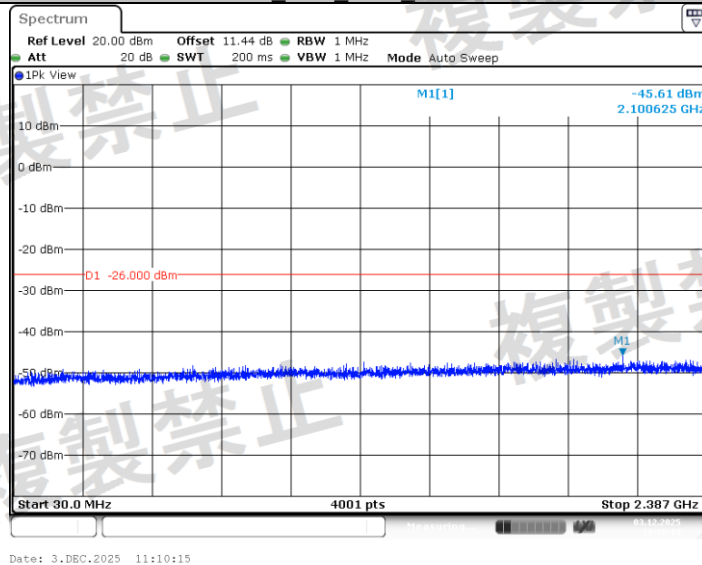
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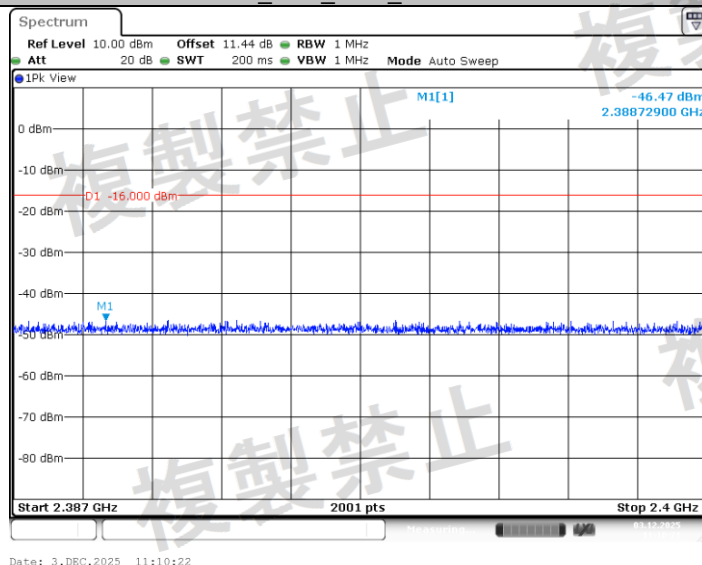
2DH5_Ant1_2402_2496.5~12500



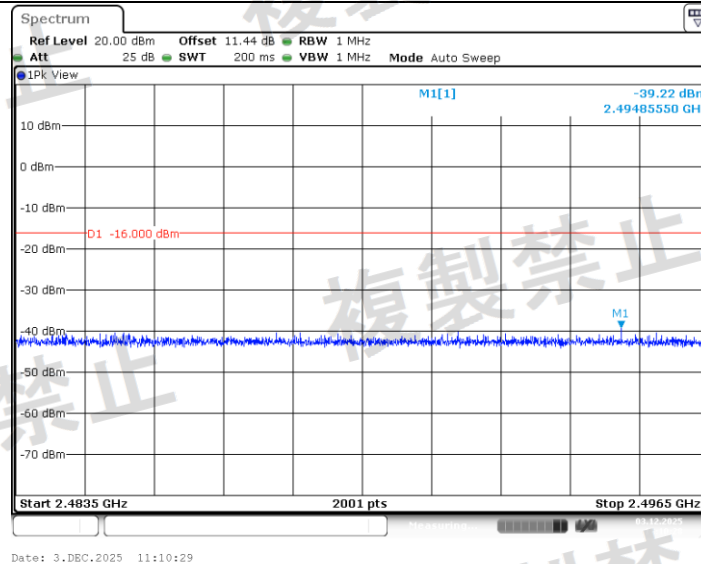
2DH5_Ant1_2441_30~2387



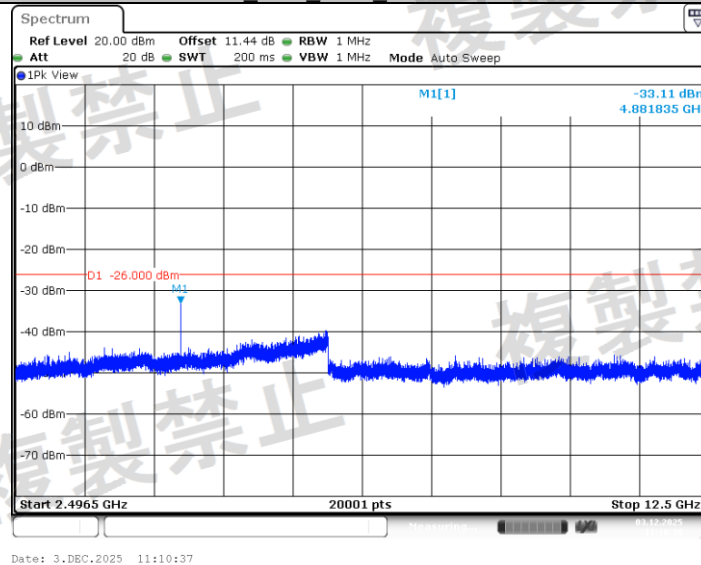
2DH5_Ant1_2441_2387~2400



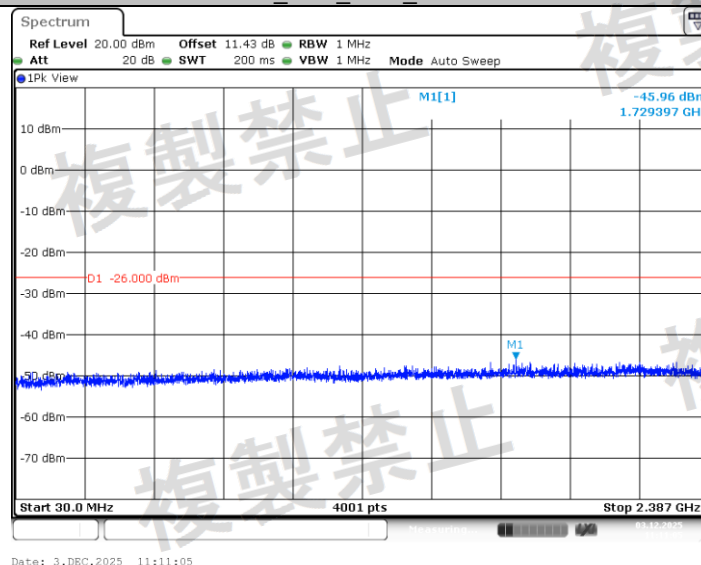
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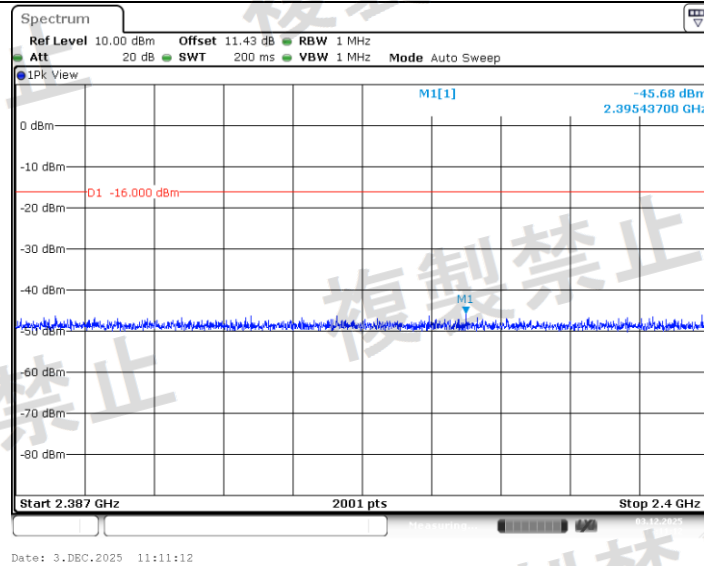
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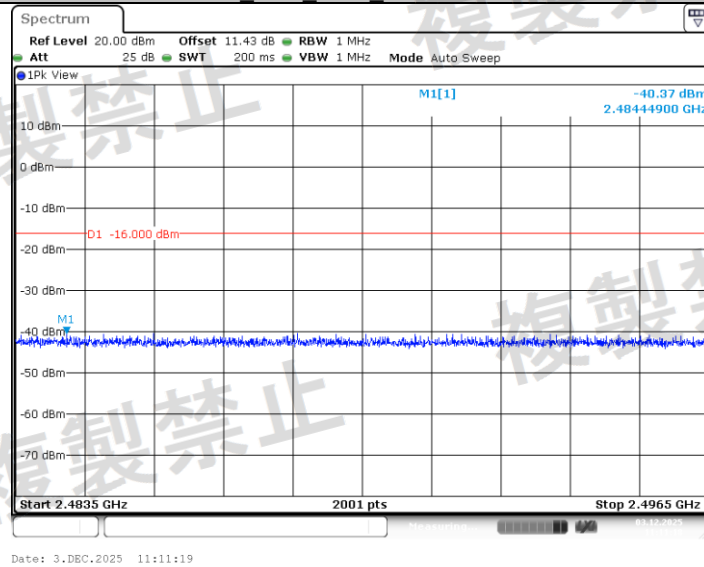
2DH5_Ant1_2480_30~2387



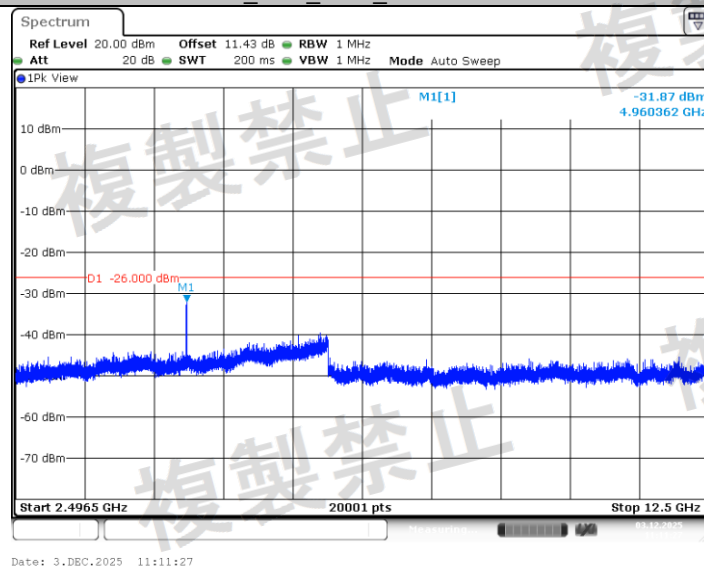
2DH5_Ant1_2480_2387~2400



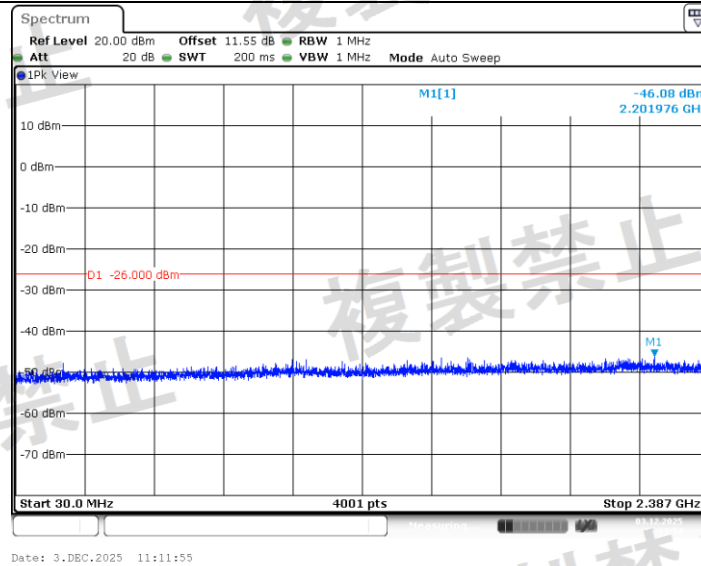
2DH5_Ant1_2480_2483.5~2496.5



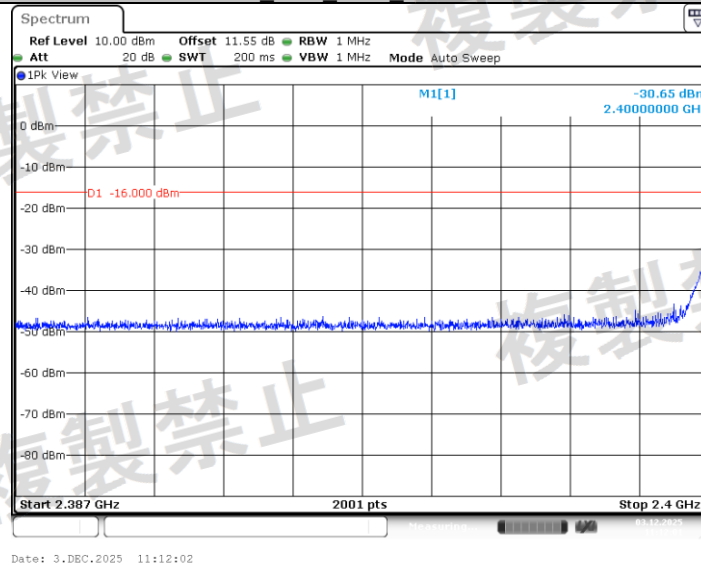
2DH5_Ant1_2480_2496.5~12500



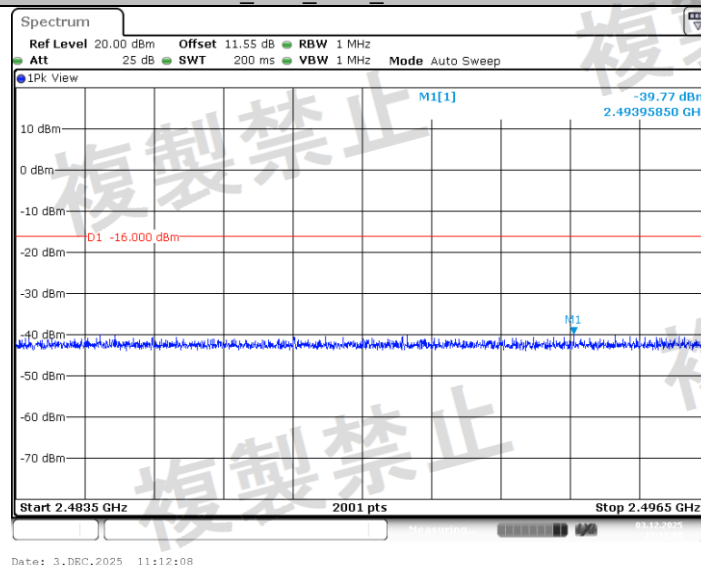
3DH5_Ant1_2402_30~2387



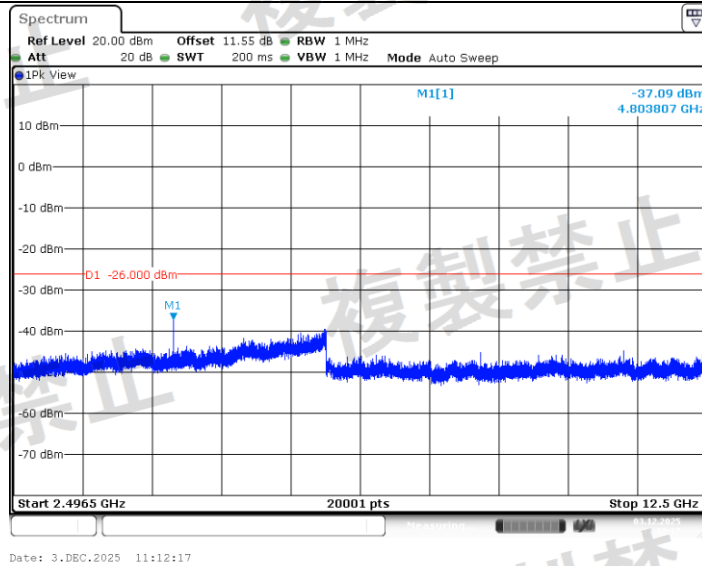
3DH5_Ant1_2402_2387~2400



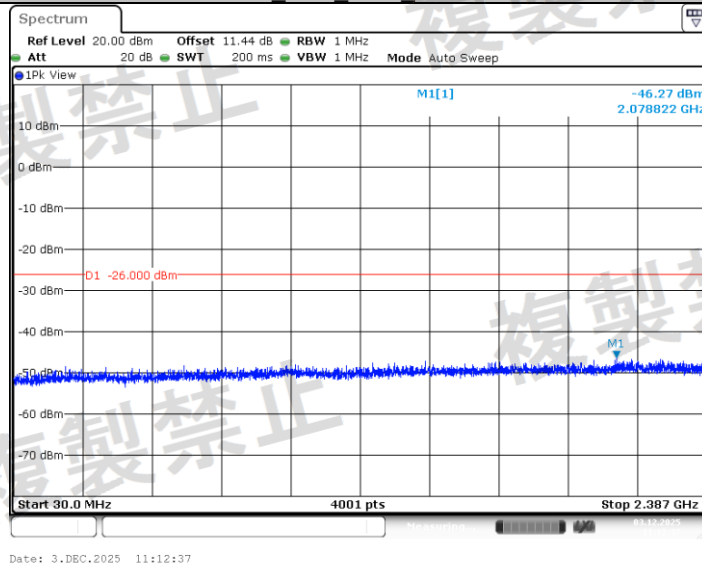
3DH5_Ant1_2402_2483.5~2496.5



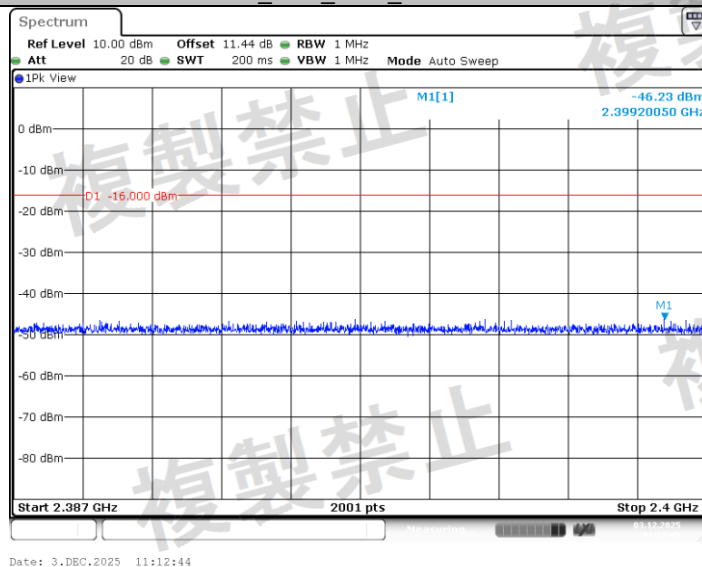
3DH5_Ant1_2402_2496.5~12500



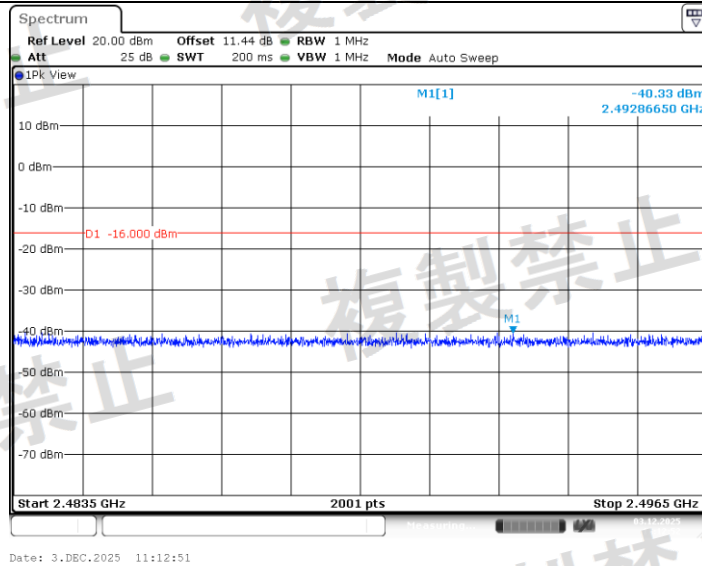
3DH5_Ant1_2441_30~2387



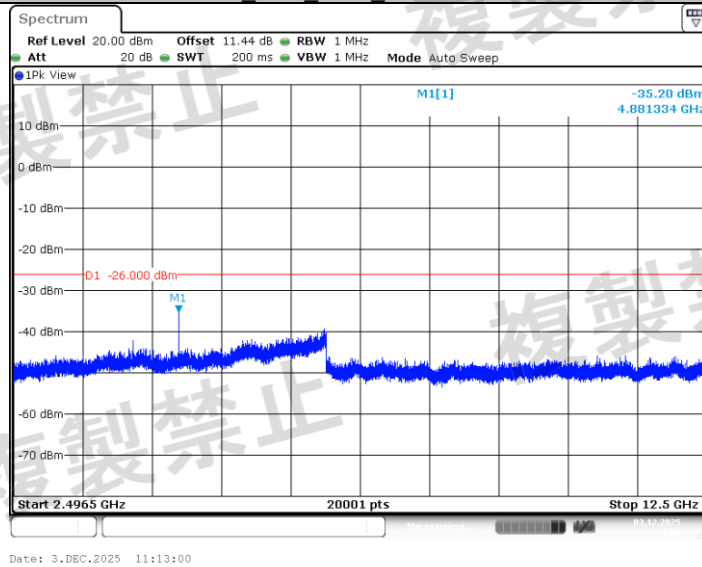
3DH5_Ant1_2441_2387~2400



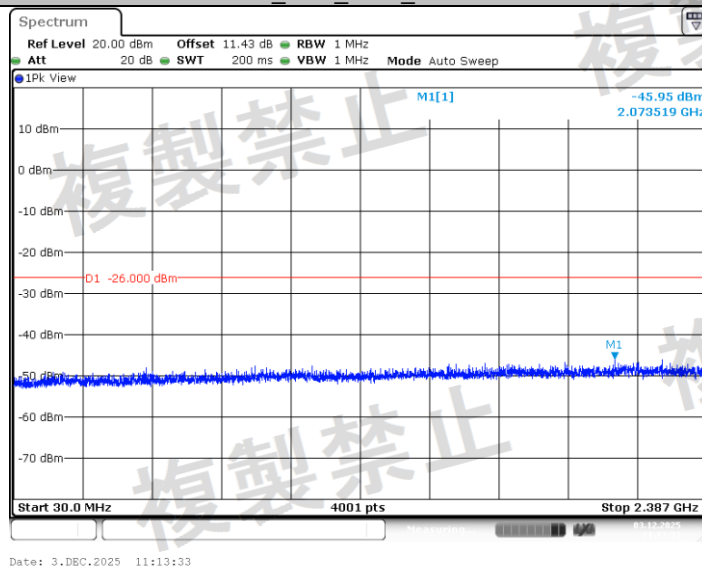
3DH5_Ant1_2441_2483.5~2496.5



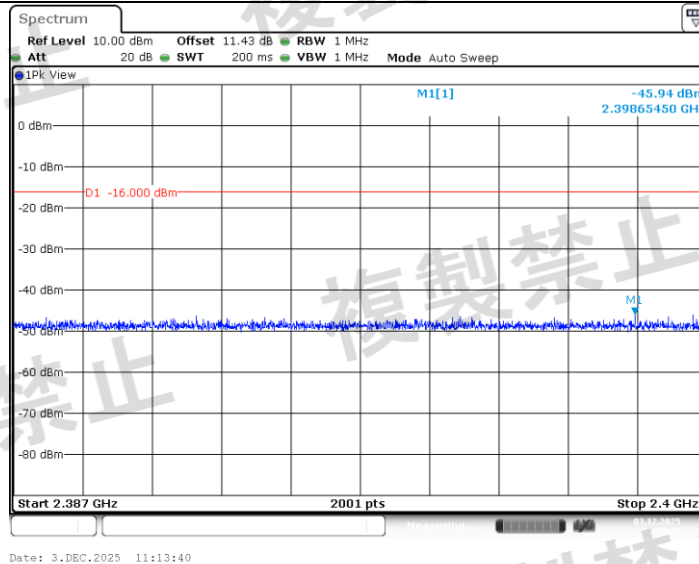
3DH5_Ant1_2441_2496.5~12500



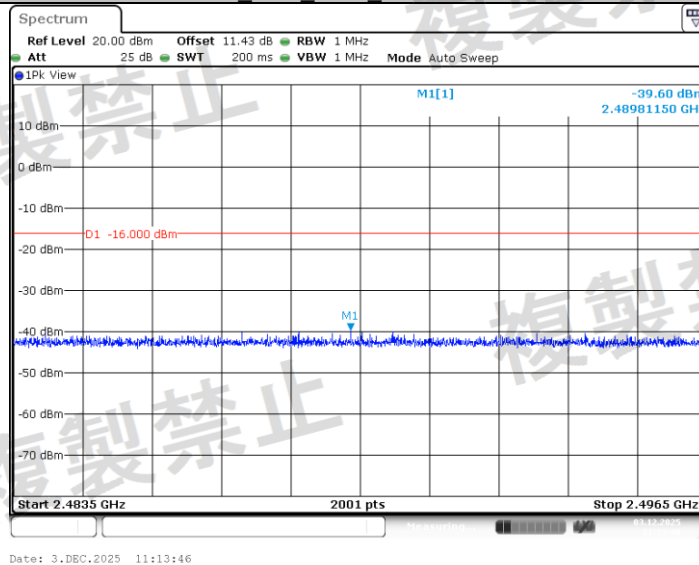
3DH5_Ant1_2480_30~2387



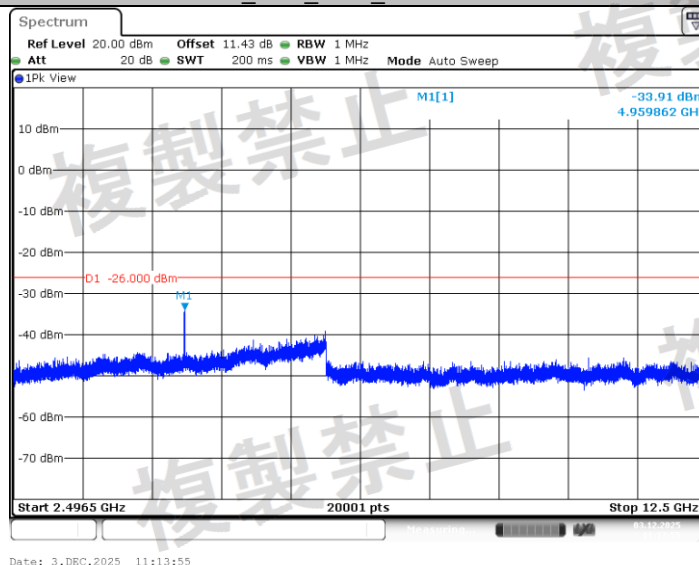
3DH5_Ant1_2480_2387~2400



3DH5_Ant1_2480_2483.5~2496.5



3DH5_Ant1_2480_2496.5~12500





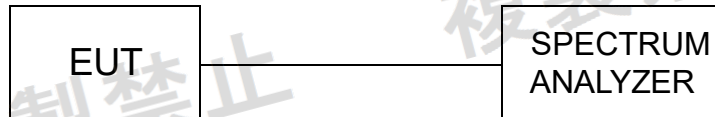
3.6. Limit of secondary radiated emissions

LIMIT

Below 1GHz: 4.0nW (-54dBm) or less

Above 1GHz: 20nW (-47dBm) or less

TEST CONFIGURATION



TEST PROCEDURE

The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

EUT Condition: modulation

Spectrum Condition:

Frequency: 30MHz-12.5GHz

Below 1GHz, RBW=VBW=100KHz;

Above 1GHz, RBW=VBW=1MHz,

Sweep time: Auto

Detector mode: Positive peak

Indication mode: Max hold

**TEST RESULTS**

Left ear DC 5V									
Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
DH5	Ant1	2402	30~1000	971.39	-62.45	≤-54	0.56885	≤4	See table below
			1000~12500	6984.03	-53.06	≤-47	4.94311	≤20	See table below
		2441	30~1000	810.85	-63.17	≤-54	0.48195	≤4	See table below
			1000~12500	3416.73	-51.84	≤-47	6.54636	≤20	See table below
		2480	30~1000	758.96	-62.92	≤-54	0.51050	≤4	See table below
			1000~12500	6994.38	-52.80	≤-47	5.24807	≤20	See table below
2DH5	Ant1	2402	30~1000	992.24	-62.44	≤-54	0.57016	≤4	See table below
			1000~12500	6993.8	-52.57	≤-47	5.53350	≤20	See table below
		2441	30~1000	908.82	-62.31	≤-54	0.58749	≤4	See table below
			1000~12500	6968.5	-52.99	≤-47	5.02343	≤20	See table below
		2480	30~1000	985.94	-62.84	≤-54	0.52000	≤4	See table below
			1000~12500	6982.3	-53.23	≤-47	4.75335	≤20	See table below
3DH5	Ant1	2402	30~1000	710.94	-62.72	≤-54	0.53456	≤4	See table below
			1000~12500	6997.83	-51.91	≤-47	6.44169	≤20	See table below
		2441	30~1000	946.65	-63.03	≤-54	0.49774	≤4	See table below
			1000~12500	6999.55	-52.51	≤-47	5.61048	≤20	See table below
		2480	30~1000	985.45	-62.69	≤-54	0.53827	≤4	See table below
			1000~12500	6996.68	-52.71	≤-47	5.35797	≤20	See table below

Test Result Step2

Test Mode	Antenna	Freq(MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
DH5	Ant1	2402	971.39	-88.33	≤-54	0.00147	≤4	PASS
			6984.03	-69.07	≤-47	0.12388	≤20	PASS
		2441	810.85	-89.01	≤-54	0.00126	≤4	PASS
			3416.73	-63.13	≤-47	0.48641	≤20	PASS
		2480	758.96	-88.99	≤-54	0.00126	≤4	PASS
			6994.38	-69.15	≤-47	0.12162	≤20	PASS
2DH5	Ant1	2402	992.24	-88.69	≤-54	0.00135	≤4	PASS
			6993.80	-68.98	≤-47	0.12647	≤20	PASS
		2441	908.82	-88.87	≤-54	0.00130	≤4	PASS
			6968.50	-69.12	≤-47	0.12246	≤20	PASS
		2480	985.94	-88.59	≤-54	0.00138	≤4	PASS
			6982.30	-68.83	≤-47	0.13092	≤20	PASS
3DH5	Ant1	2402	710.94	-89.39	≤-54	0.00115	≤4	PASS
			6997.83	-68.93	≤-47	0.12794	≤20	PASS
		2441	946.65	-88.72	≤-54	0.00134	≤4	PASS
			6999.55	-69.08	≤-47	0.12359	≤20	PASS
		2480	985.45	-88.59	≤-54	0.00138	≤4	PASS
			6996.68	-68.76	≤-47	0.13305	≤20	PASS



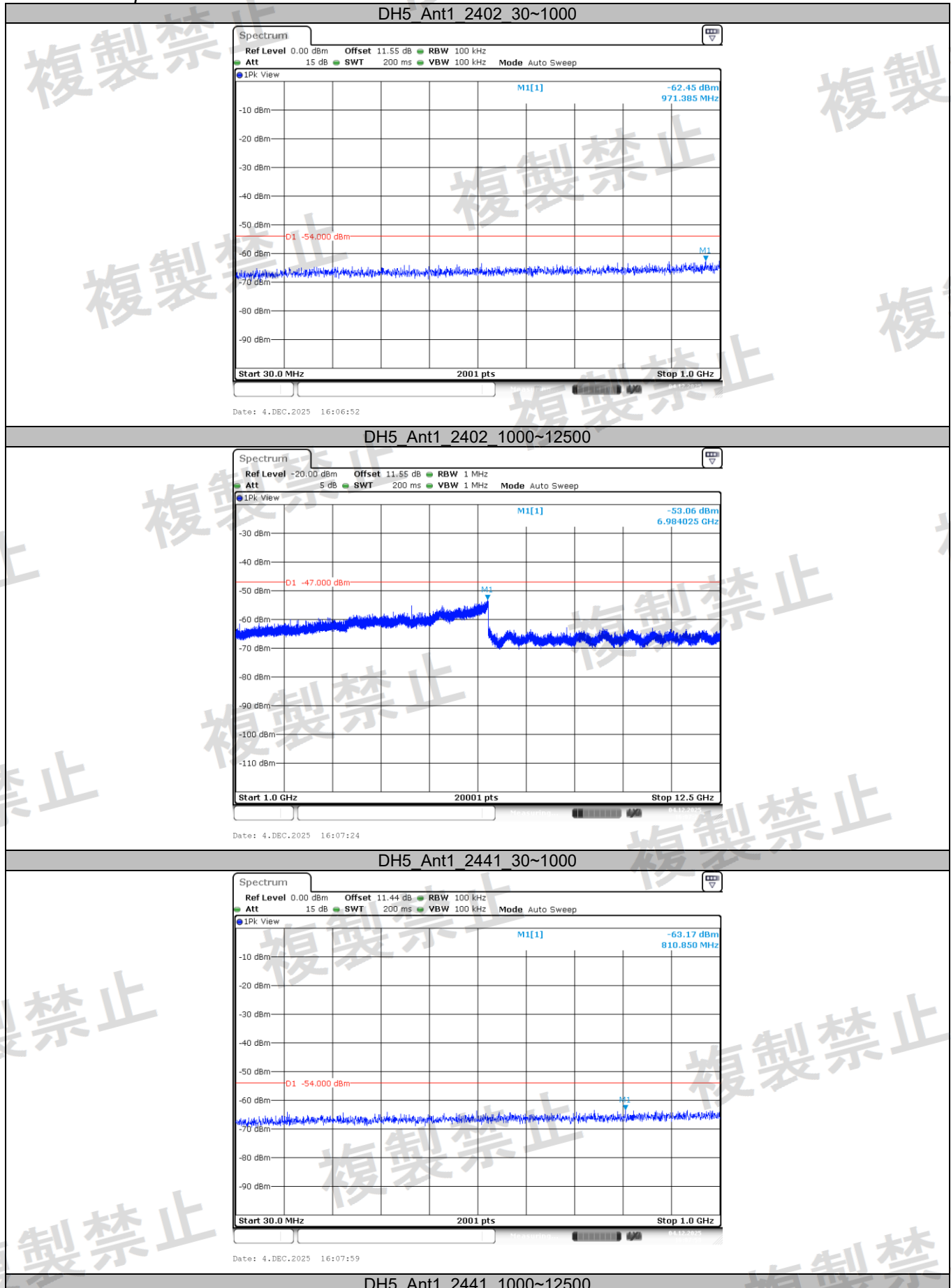
Right ear DC 5V									
Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
DH5	Ant1	2402	30~1000	974.78	-62.94	≤-54	0.50816	≤4	See table below
			1000~12500	6996.68	-52.29	≤-47	5.90201	≤20	See table below
		2441	30~1000	600.85	-62.59	≤-54	0.55081	≤4	See table below
			1000~12500	6964.48	-52.94	≤-47	5.08159	≤20	See table below
		2480	30~1000	683.3	-63.22	≤-54	0.47643	≤4	See table below
			1000~12500	6992.65	-52.75	≤-47	5.30884	≤20	See table below
2DH5	Ant1	2402	30~1000	852.08	-62.93	≤-54	0.50933	≤4	See table below
			1000~12500	6991.5	-52.35	≤-47	5.82103	≤20	See table below
		2441	30~1000	934.04	-63.38	≤-54	0.45920	≤4	See table below
			1000~12500	6985.18	-52.99	≤-47	5.02343	≤20	See table below
		2480	30~1000	982.54	-63.55	≤-54	0.44157	≤4	See table below
			1000~12500	6971.95	-52.41	≤-47	5.74116	≤20	See table below
3DH5	Ant1	2402	30~1000	919.98	-62.75	≤-54	0.53088	≤4	See table below
			1000~12500	6988.63	-52.24	≤-47	5.97035	≤20	See table below
		2441	30~1000	924.34	-62.73	≤-54	0.53333	≤4	See table below
			1000~12500	6986.33	-52.30	≤-47	5.88844	≤20	See table below
		2480	30~1000	991.76	-62.57	≤-54	0.55335	≤4	See table below
			1000~12500	6993.8	-51.25	≤-47	7.49894	≤20	See table below

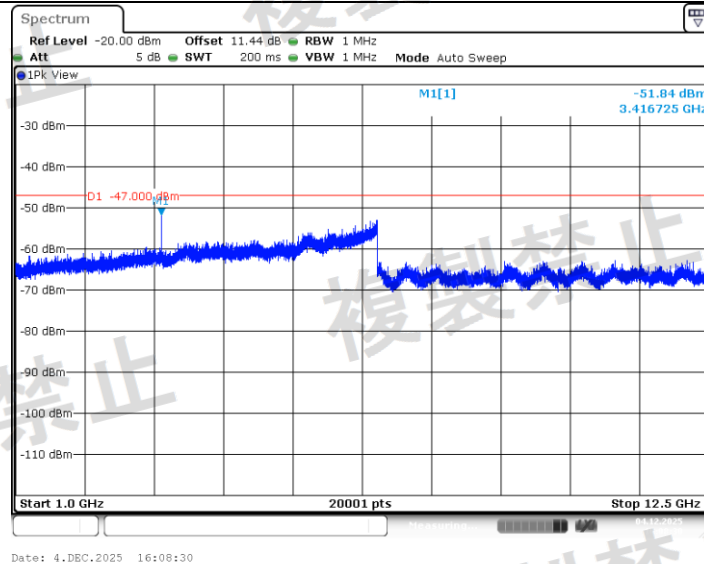
Test Result Step2

Test Mode	Antenna	Freq (MHz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
DH5	Ant1	2402	974.78	-88.35	≤-54	0.00146	≤4	PASS
			6996.68	-69.16	≤-47	0.12134	≤20	PASS
		2441	600.85	-89.16	≤-54	0.00121	≤4	PASS
			6964.48	-68.81	≤-47	0.13152	≤20	PASS
		2480	683.30	-89.44	≤-54	0.00114	≤4	PASS
			6992.65	-69.11	≤-47	0.12274	≤20	PASS
2DH5	Ant1	2402	852.08	-89.01	≤-54	0.00126	≤4	PASS
			6991.50	-69.09	≤-47	0.12331	≤20	PASS
		2441	934.04	-88.63	≤-54	0.00137	≤4	PASS
			6985.18	-69.05	≤-47	0.12445	≤20	PASS
		2480	982.54	-88.56	≤-54	0.00139	≤4	PASS
			6971.95	-69.66	≤-47	0.10814	≤20	PASS
3DH5	Ant1	2402	919.98	-88.59	≤-54	0.00138	≤4	PASS
			6988.63	-68.58	≤-47	0.13868	≤20	PASS
		2441	924.34	-88.53	≤-54	0.00140	≤4	PASS
			6986.33	-69.33	≤-47	0.11668	≤20	PASS
		2480	991.76	-88.28	≤-54	0.00149	≤4	PASS
			6993.80	-68.82	≤-47	0.13122	≤20	PASS

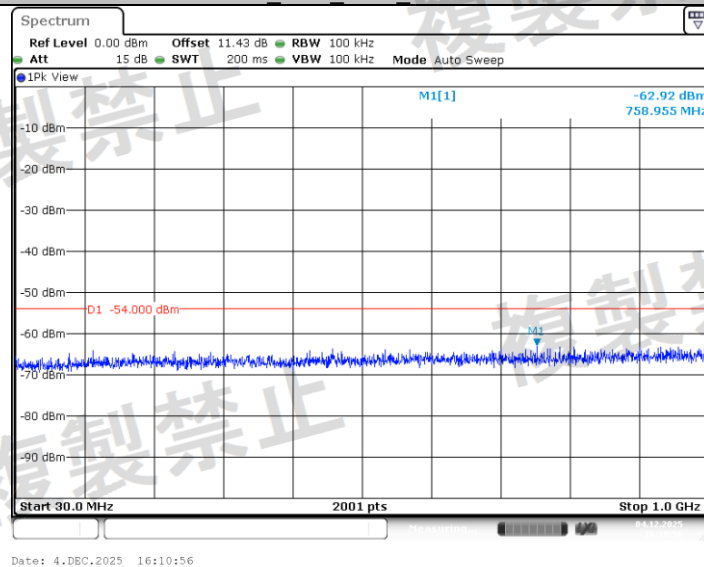


Left ear Test plot as follows:

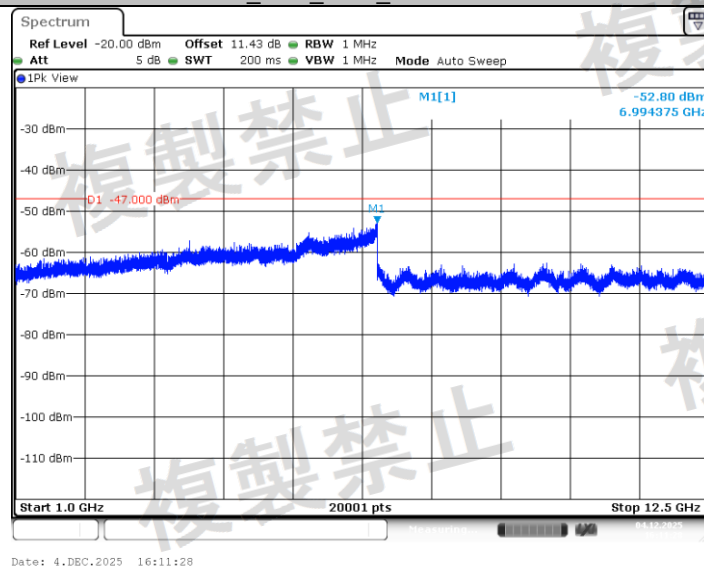




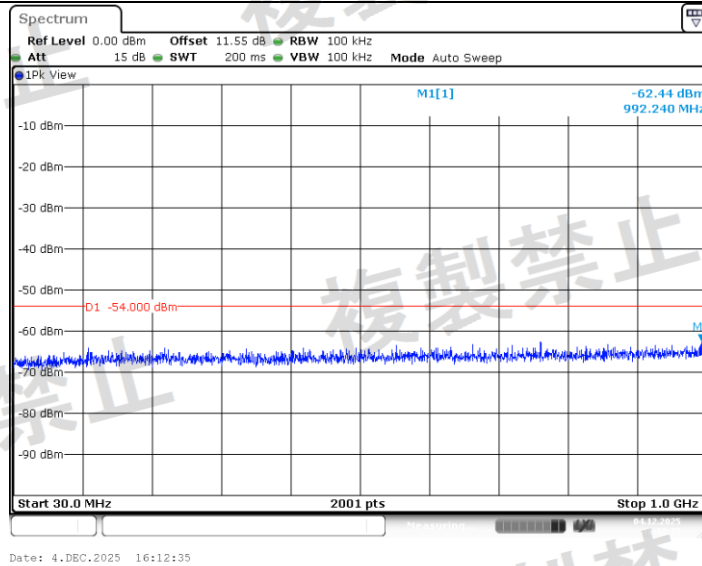
DH5_Ant1_2480_30~1000



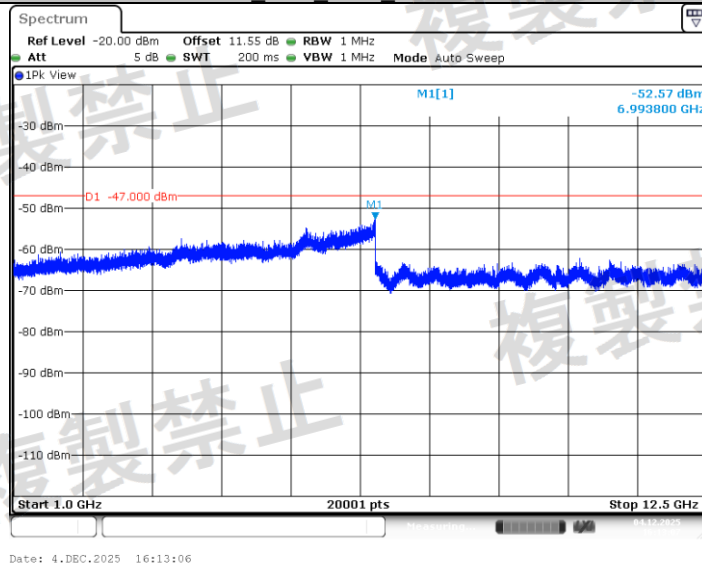
DH5_Ant1_2480_1000~12500



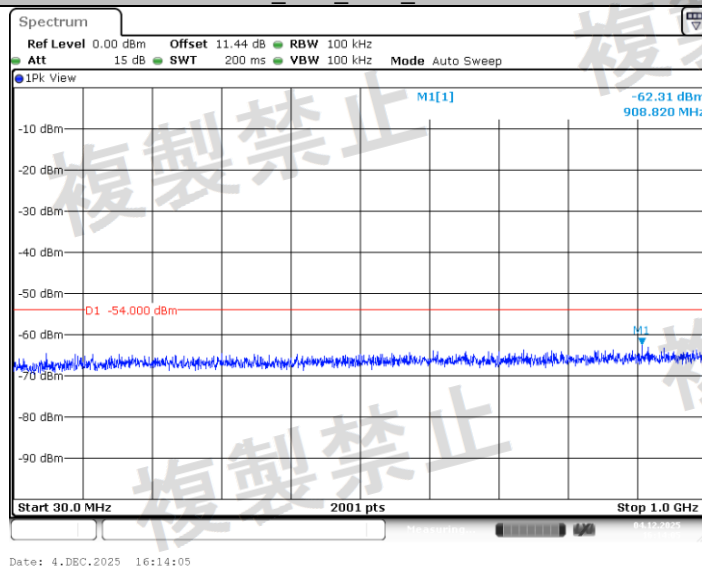
2DH5_Ant1_2402_30~1000



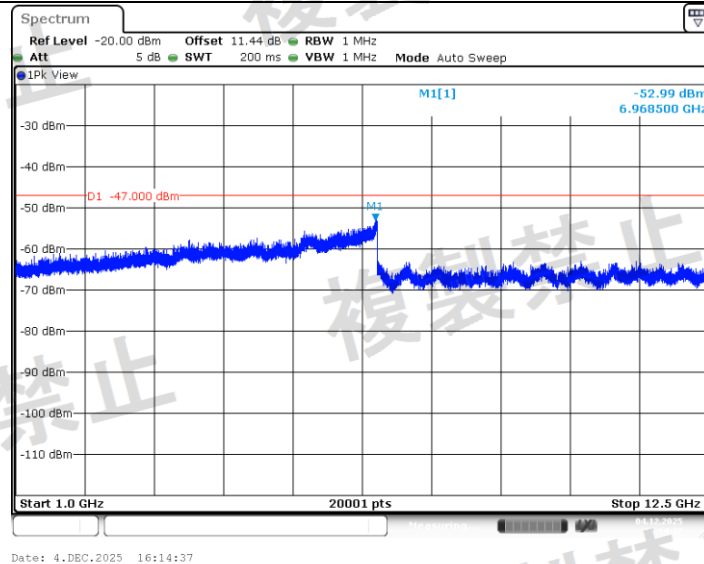
2DH5_Ant1_2402_1000~12500



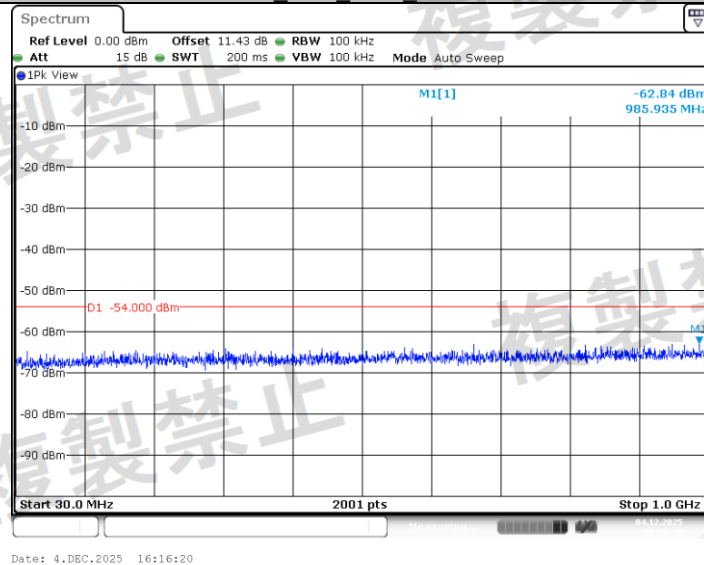
2DH5_Ant1_2441_30~1000



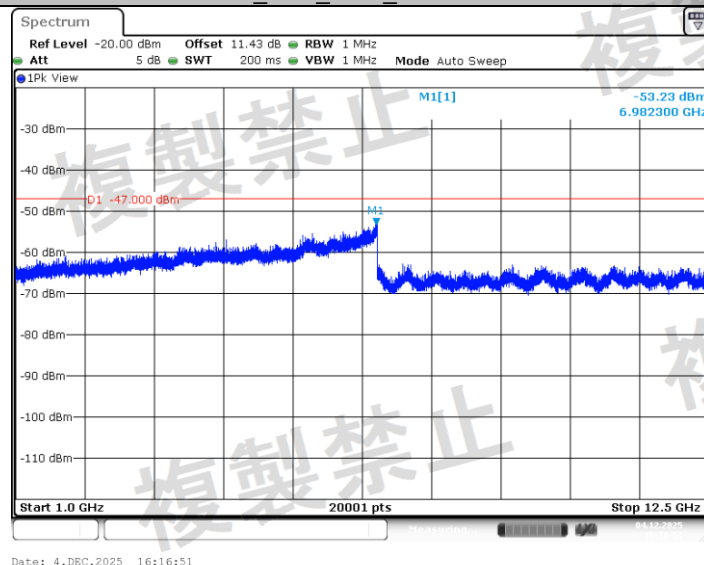
2DH5_Ant1_2441_1000~12500



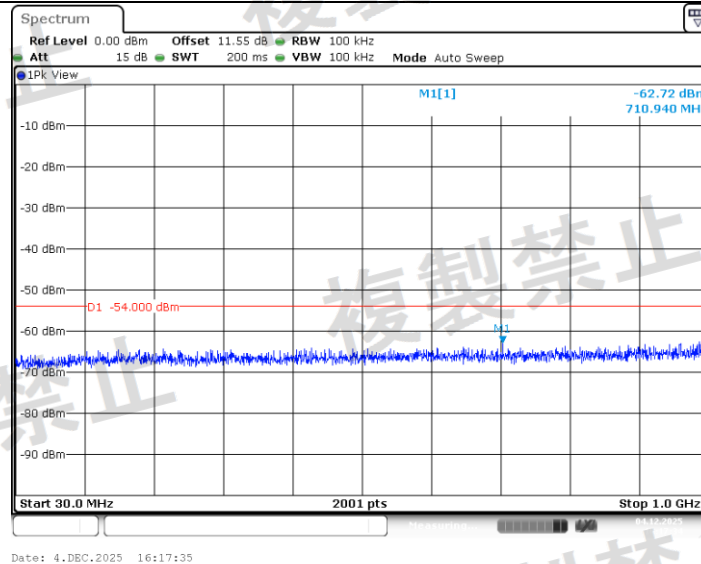
2DH5_Ant1_2480_30~1000



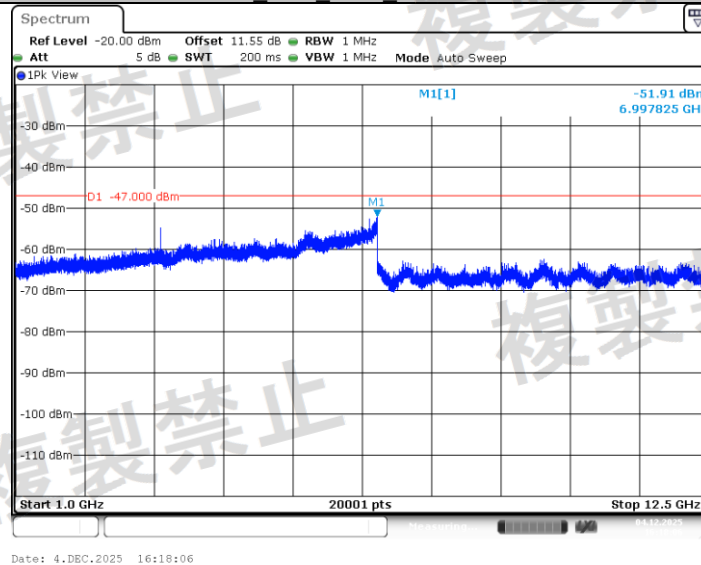
2DH5_Ant1_2480_1000~12500



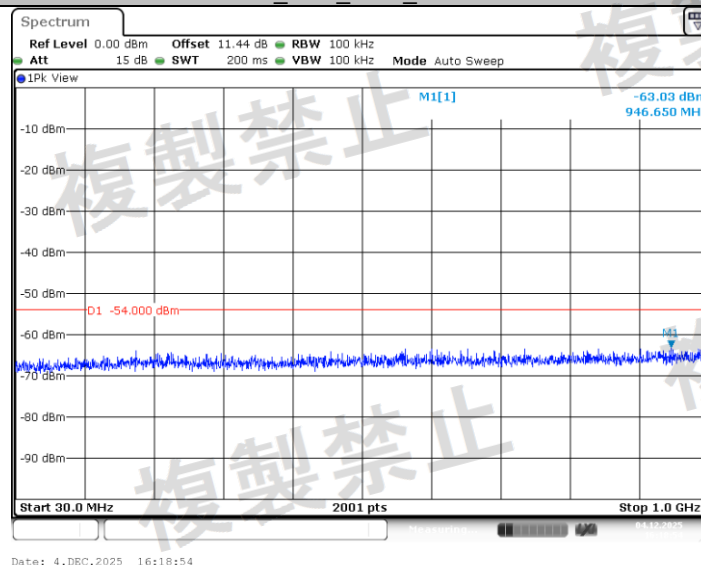
3DH5_Ant1_2402_30~1000



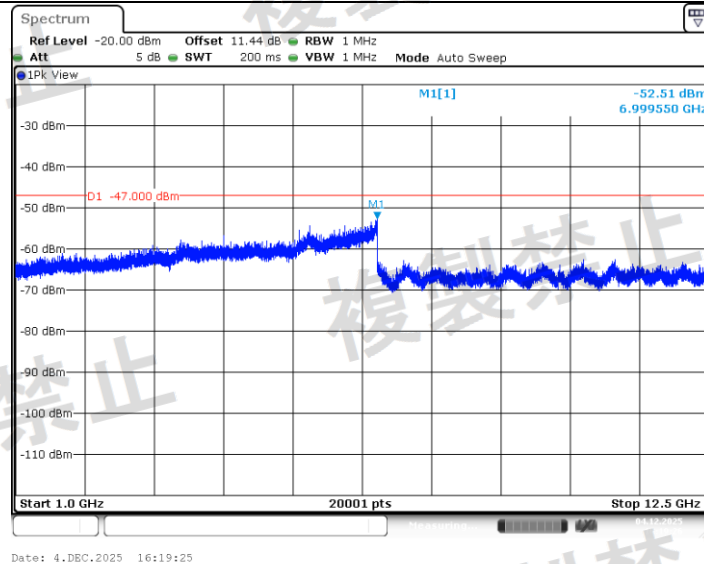
3DH5_Ant1_2402_1000~12500



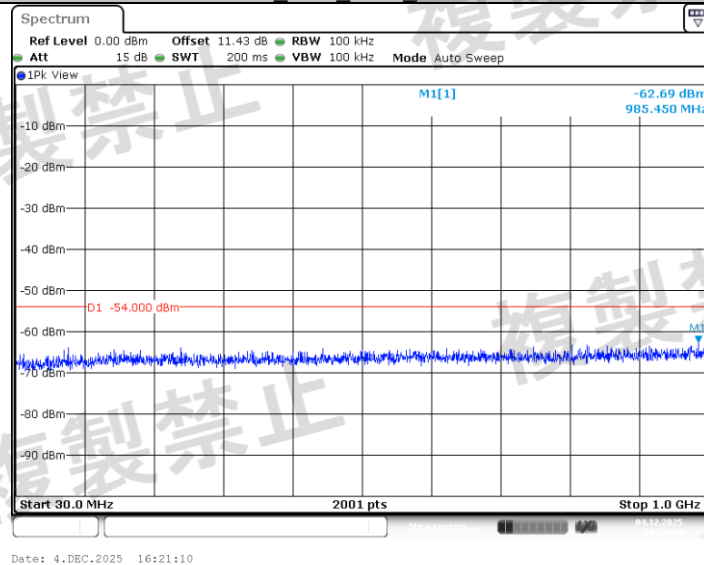
3DH5_Ant1_2441_30~1000



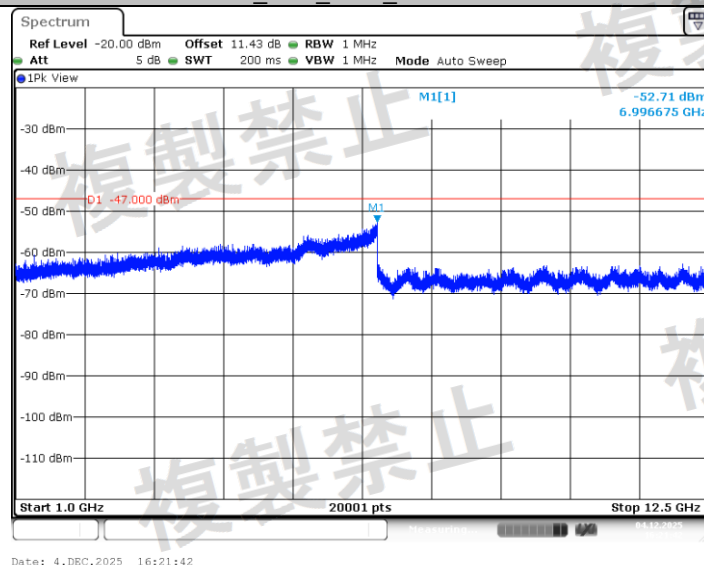
3DH5_Ant1_2441_1000~12500



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~12500



Test Graphs_Step2

CTC Laboratories, Inc.

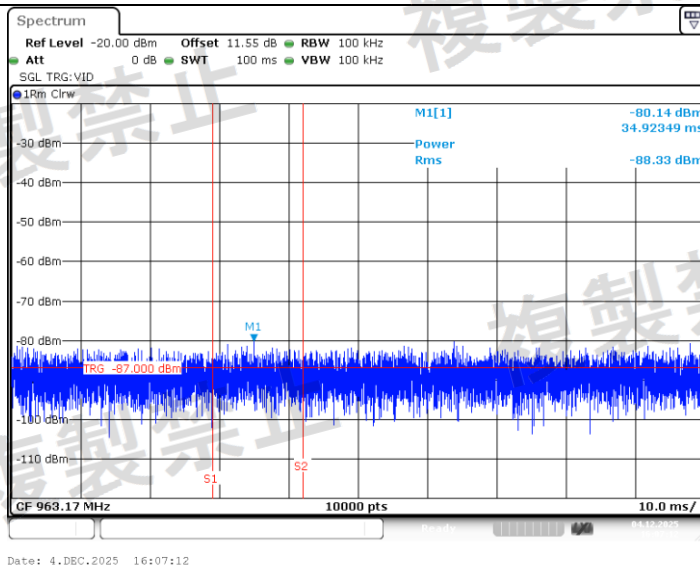
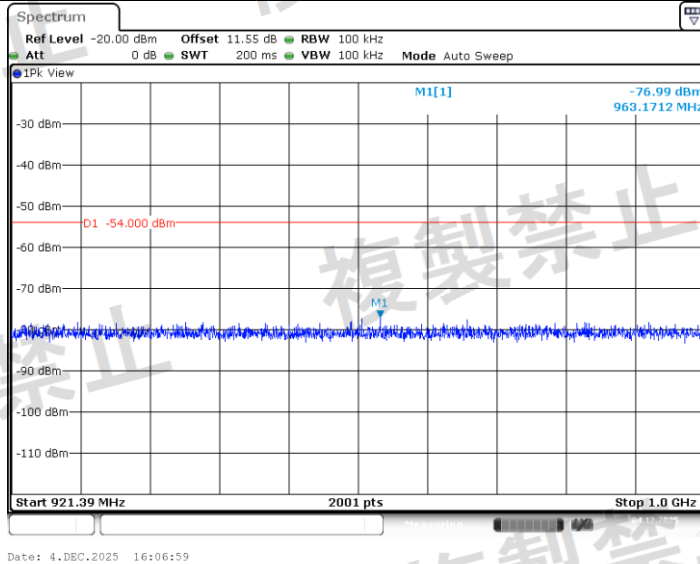
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-074_A3

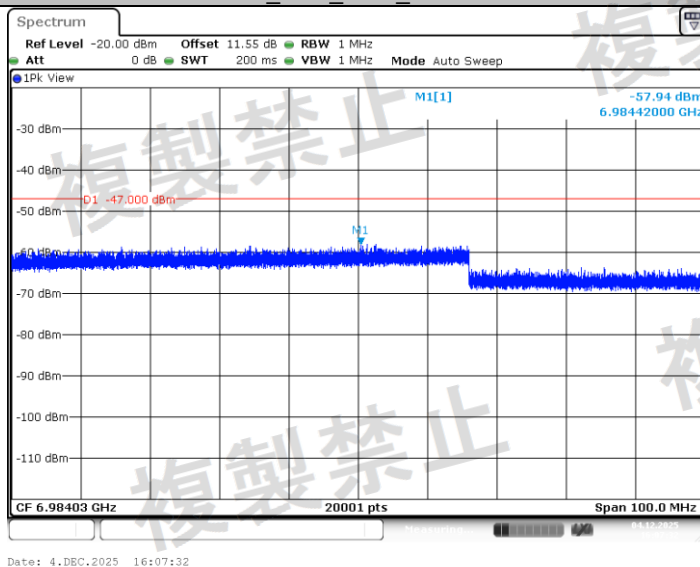
Master TRF : Dated 2026-01-01

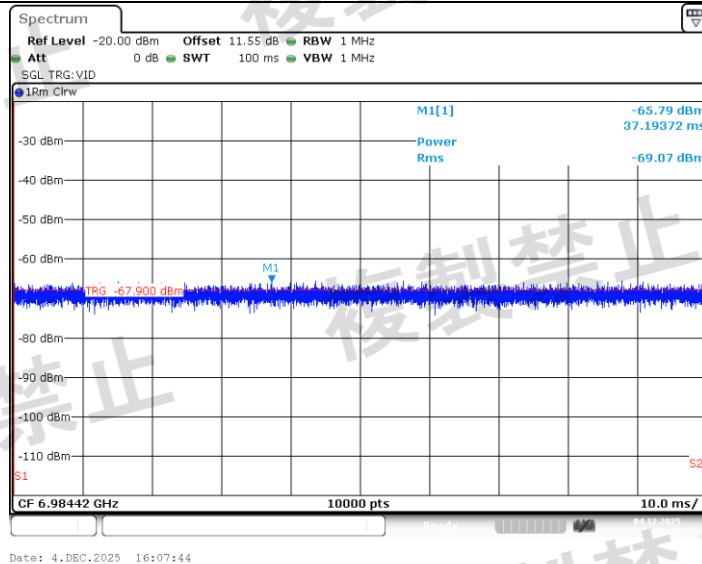


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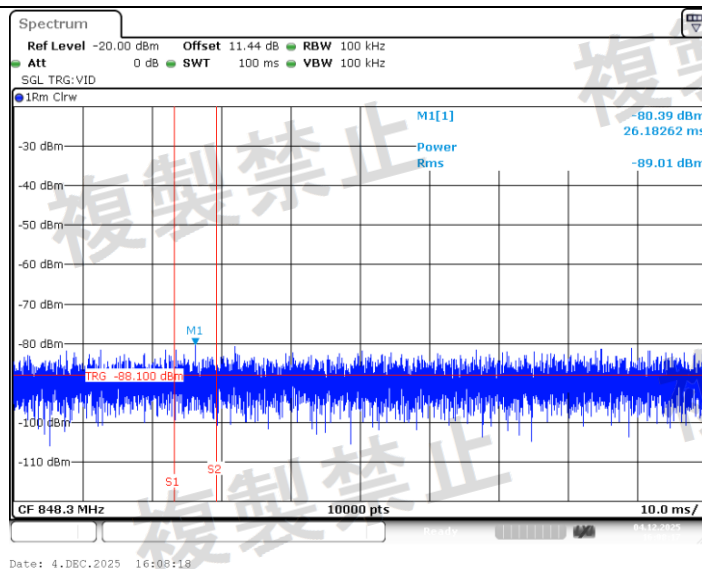
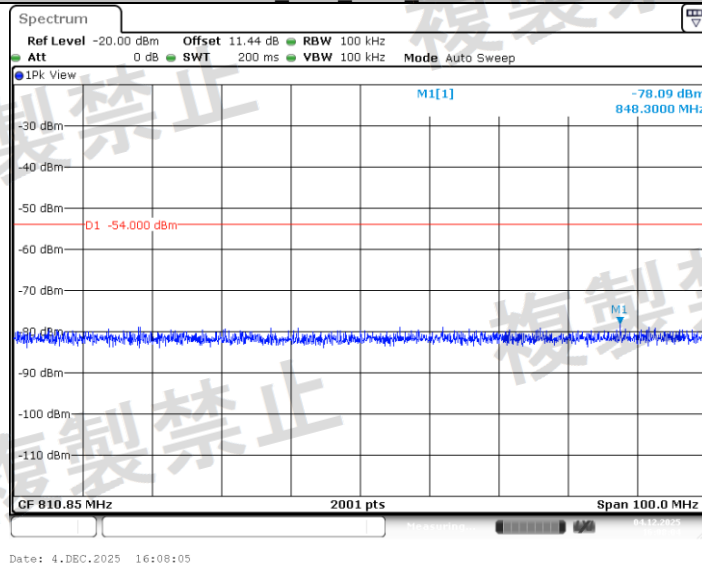


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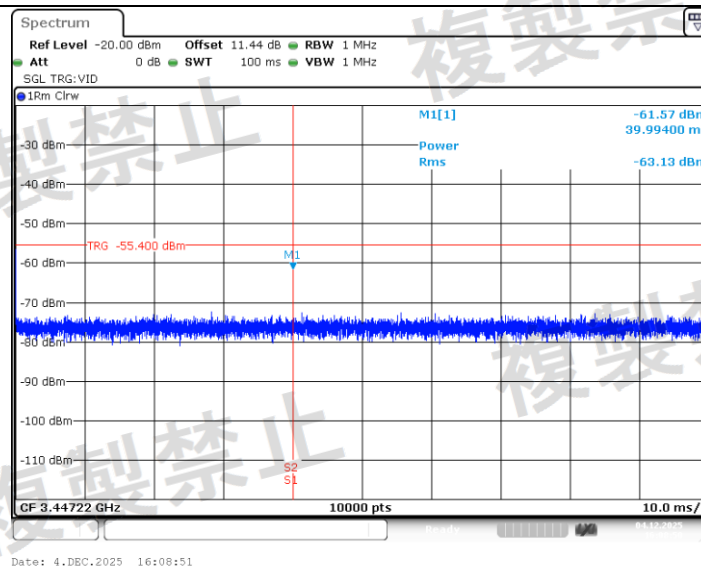
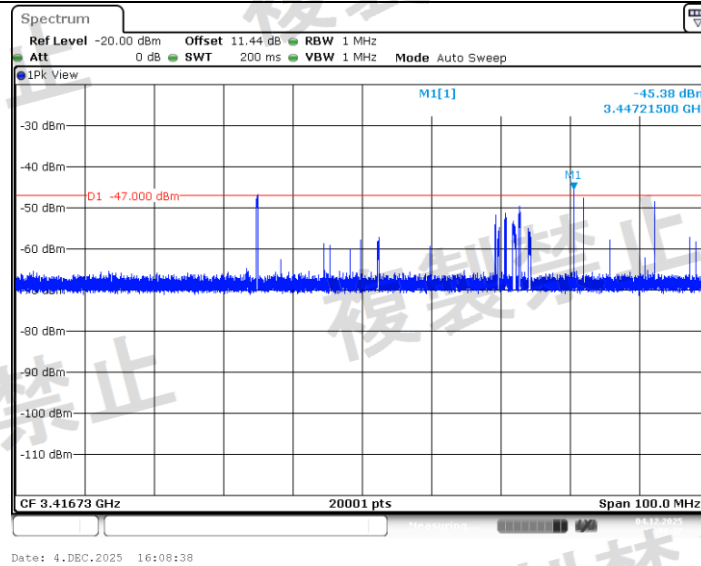




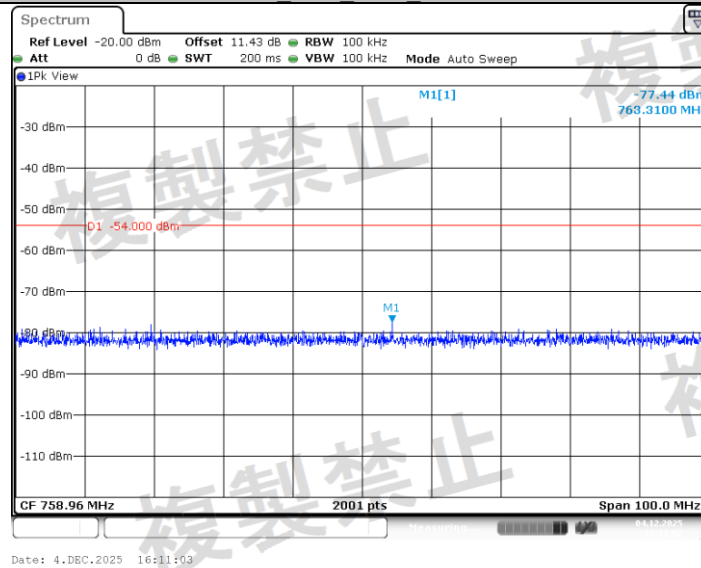
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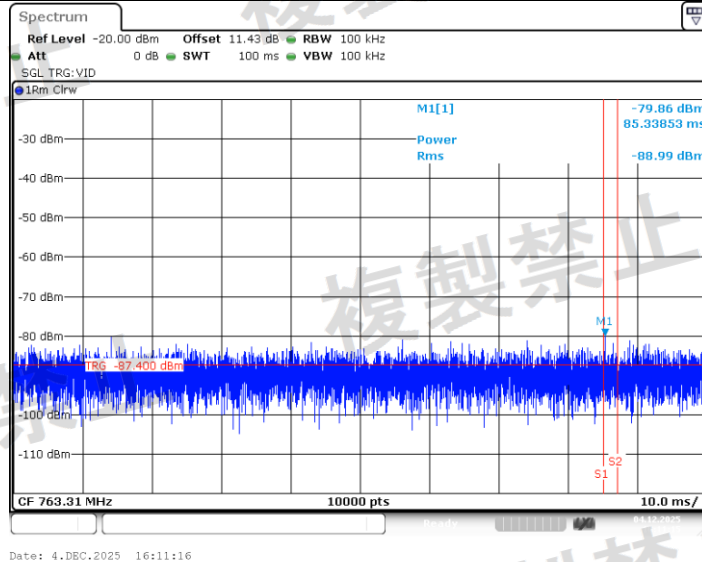


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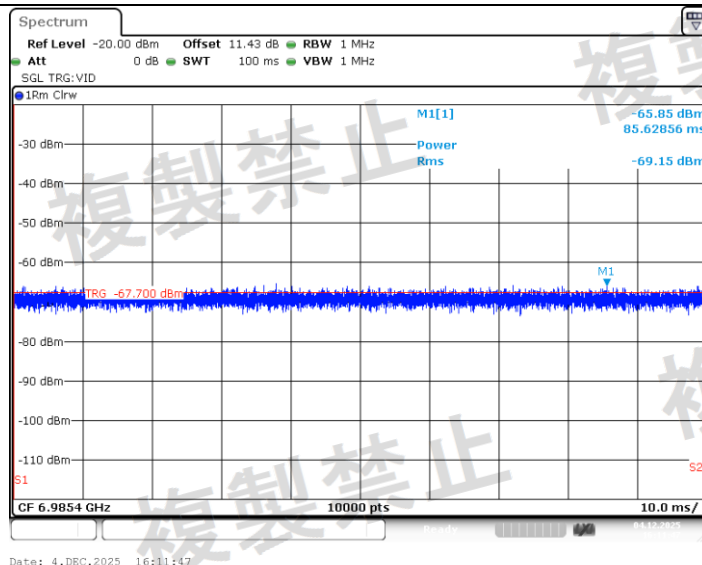
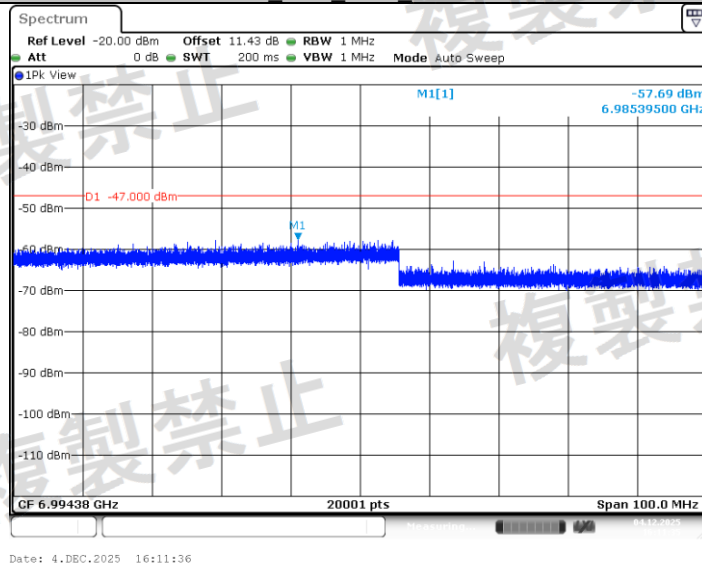


DH5 Ant1 2480 758.96

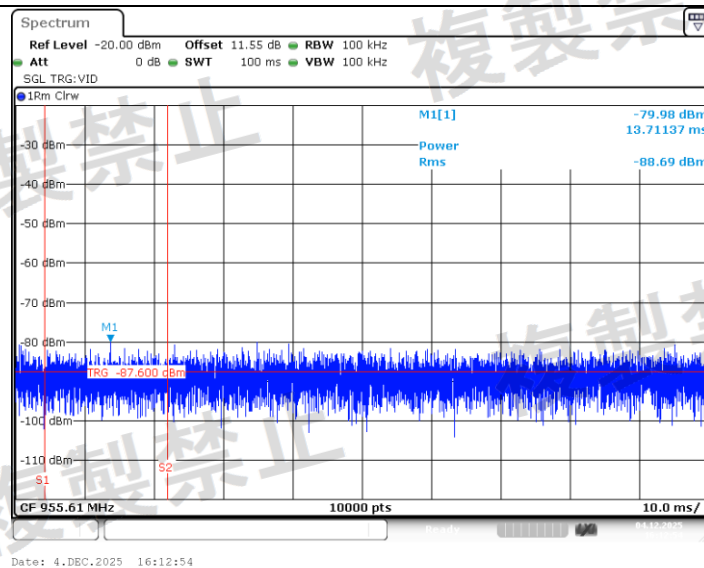
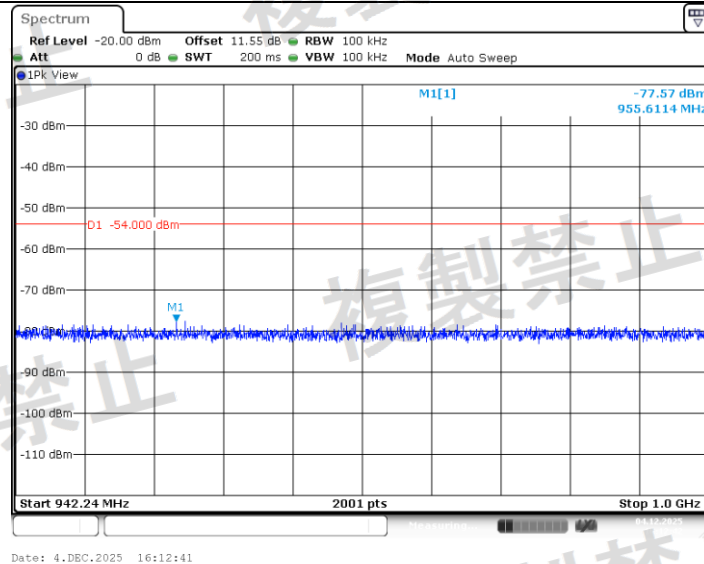




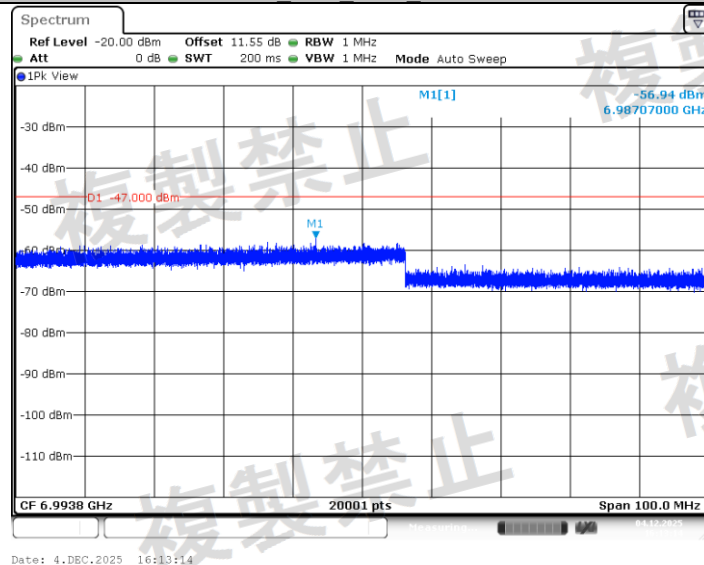
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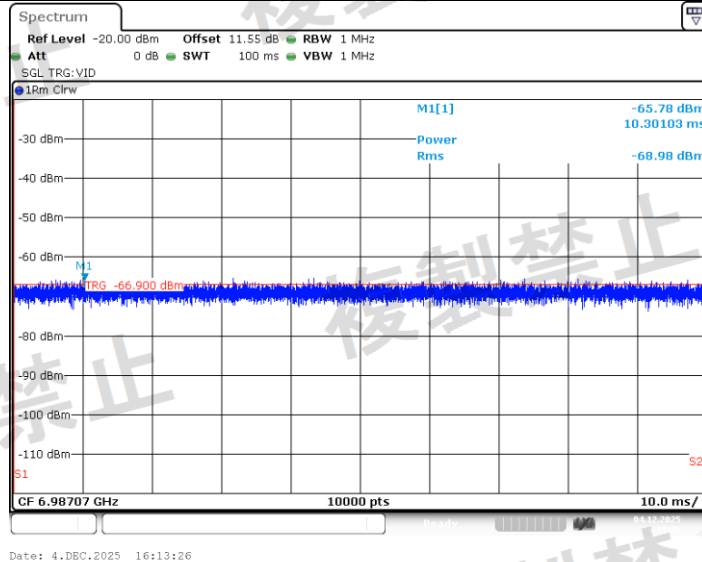


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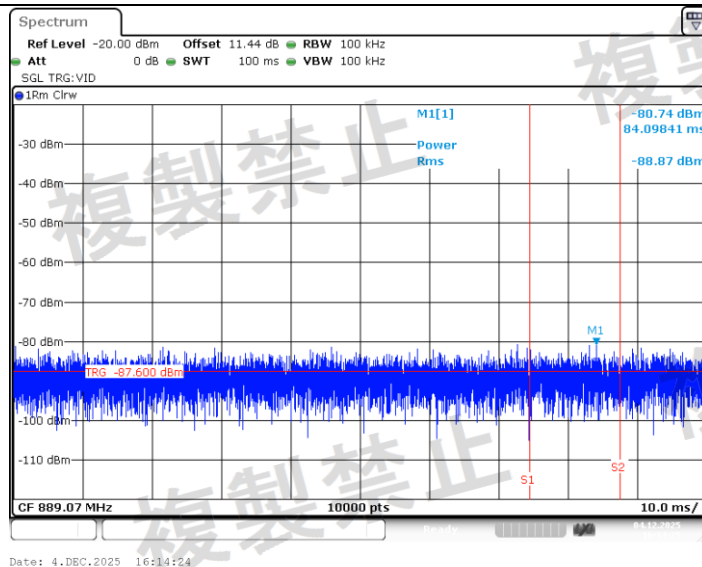
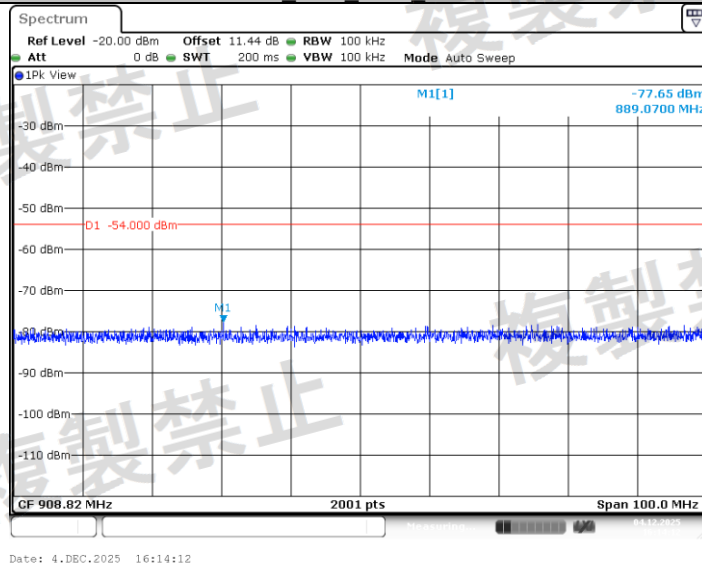


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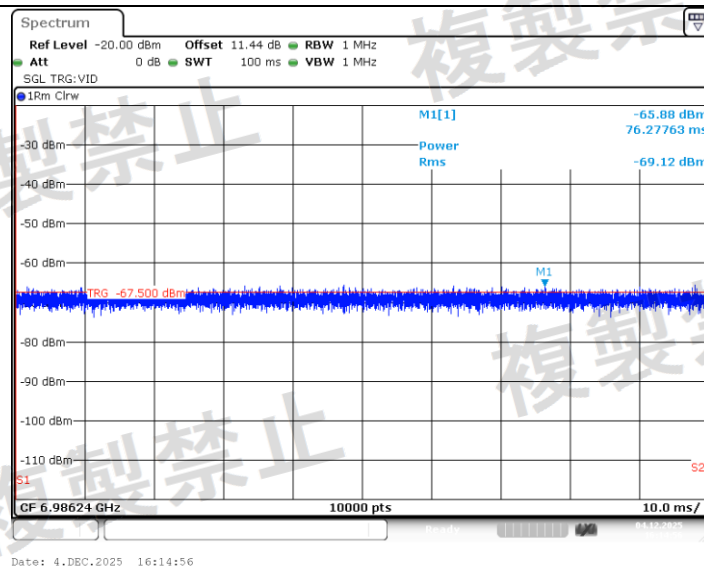
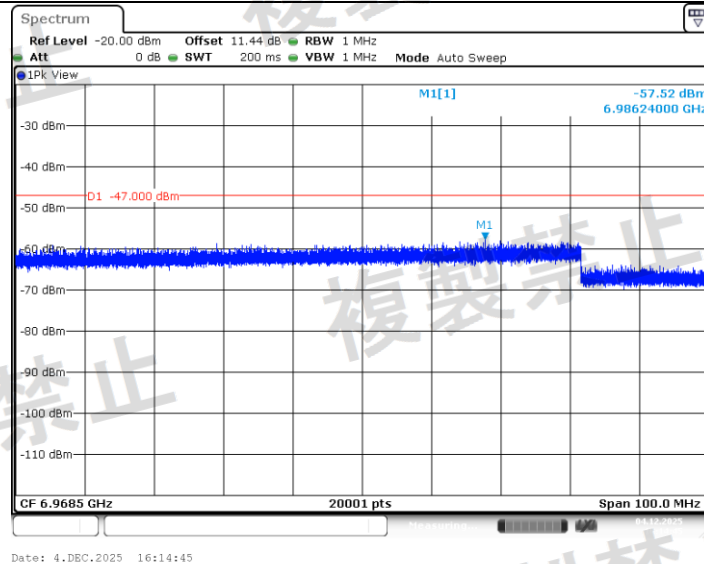




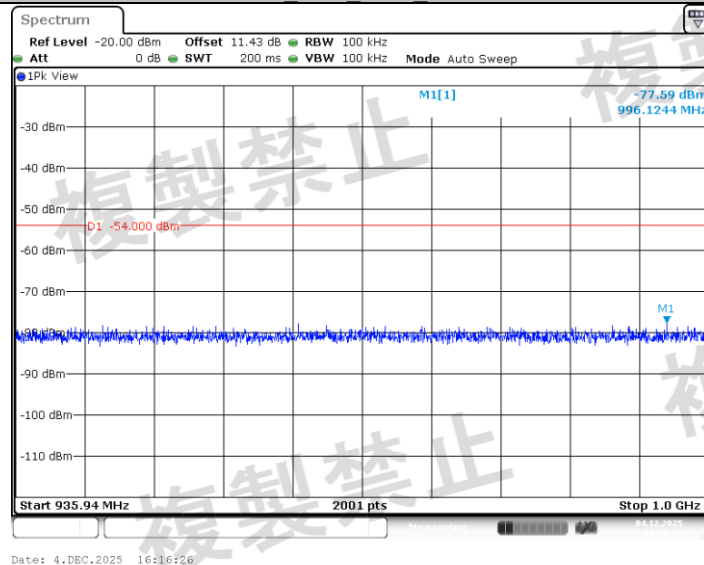
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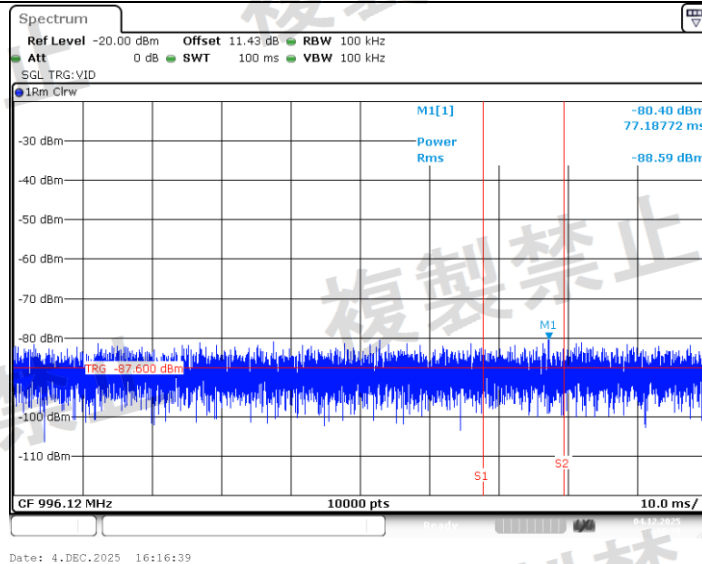


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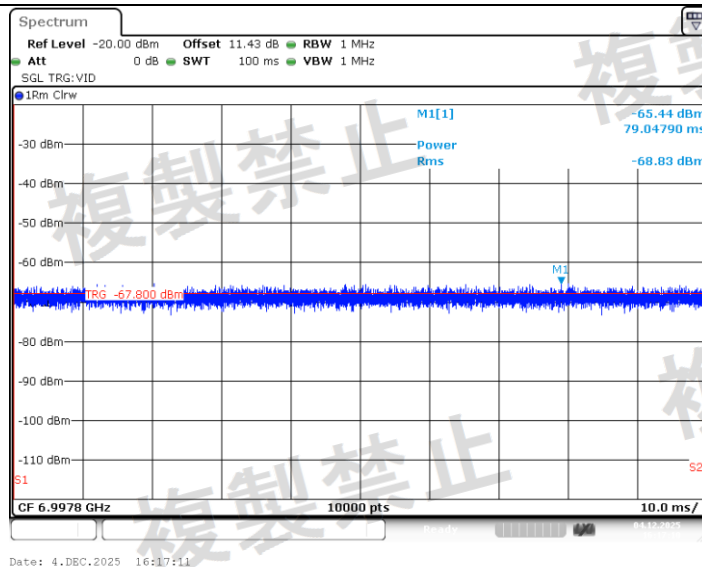
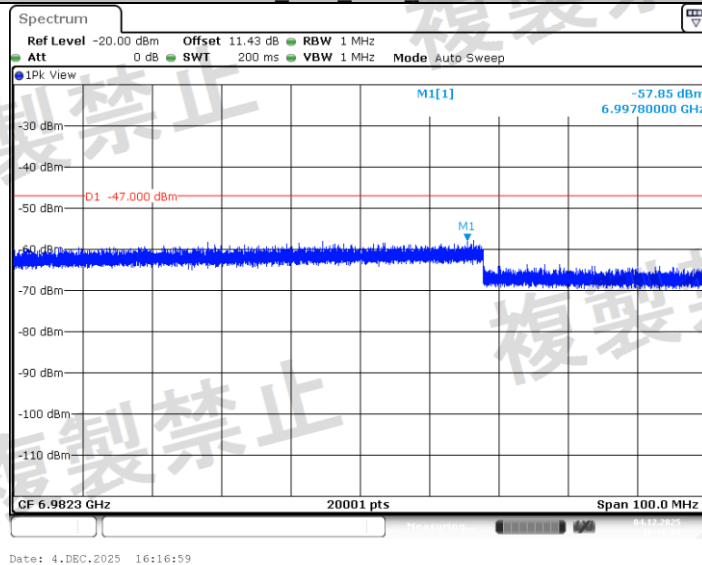


2DH5 Ant1 2480 985.94

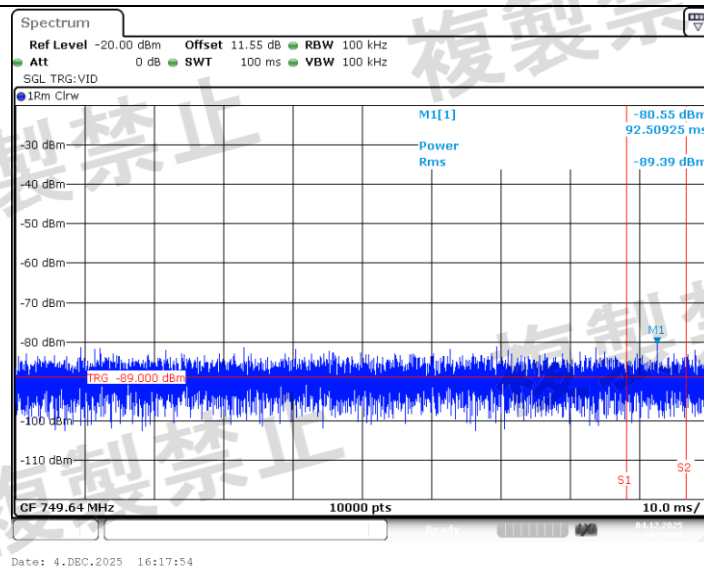
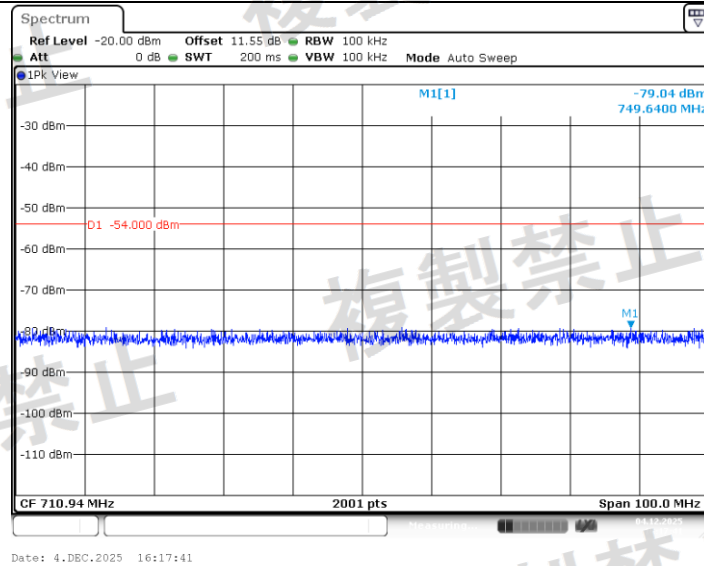




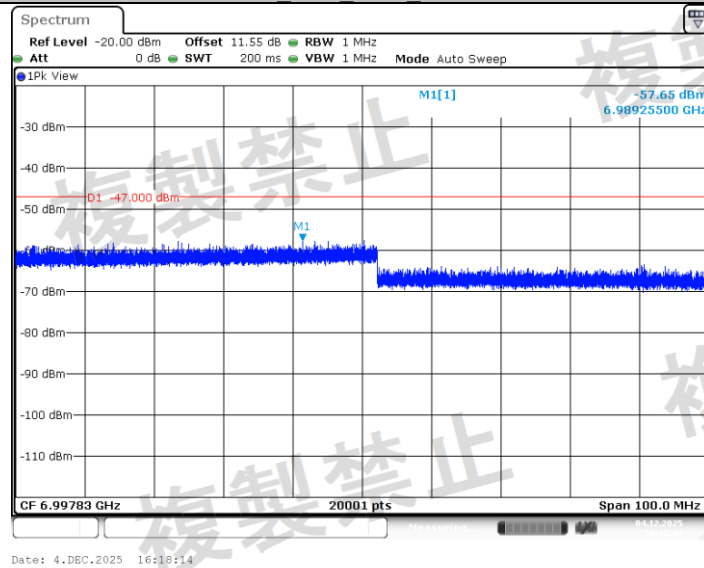
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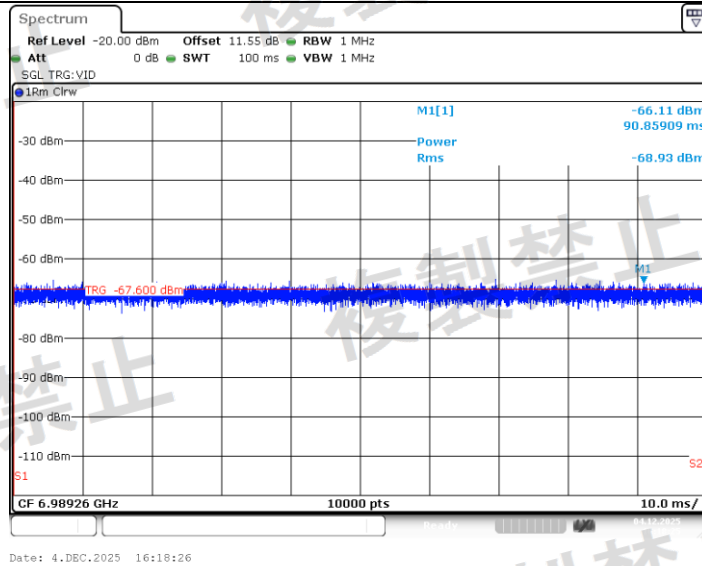


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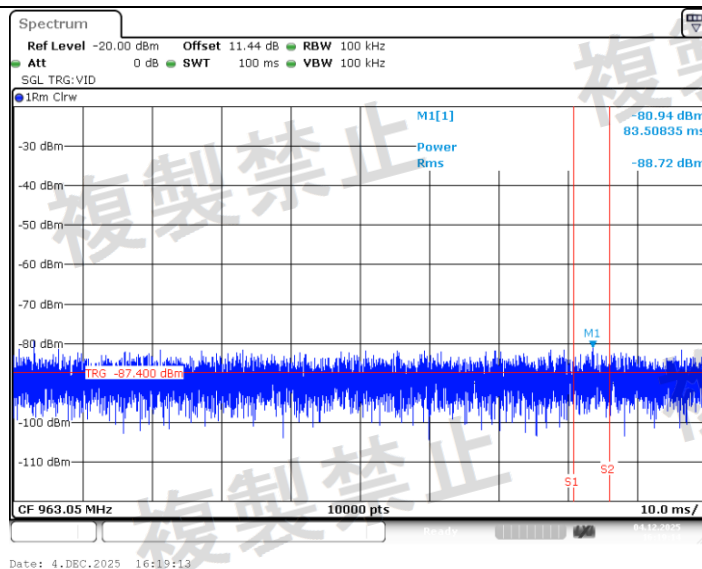
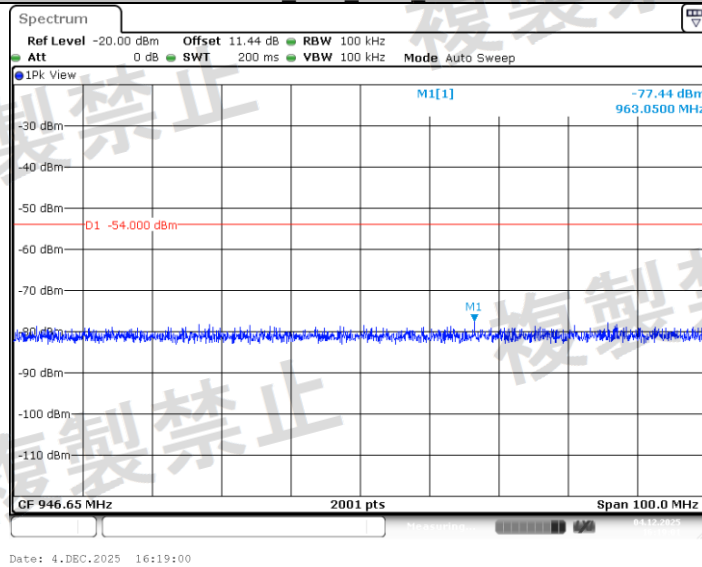


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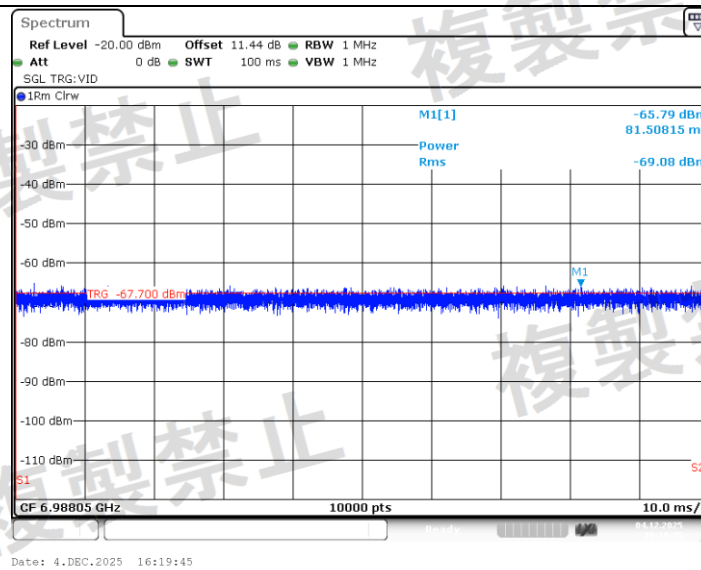
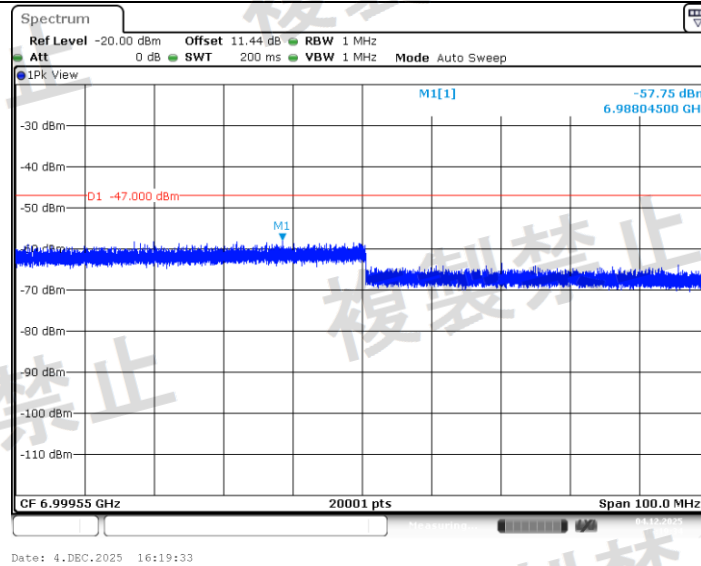




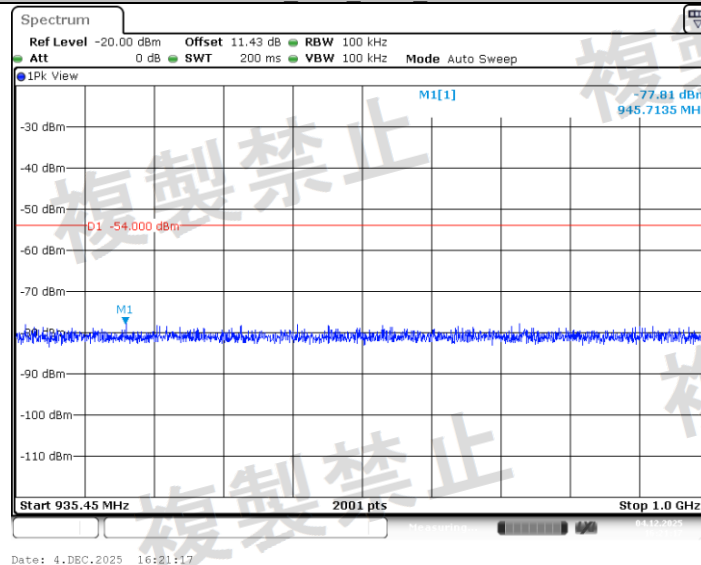
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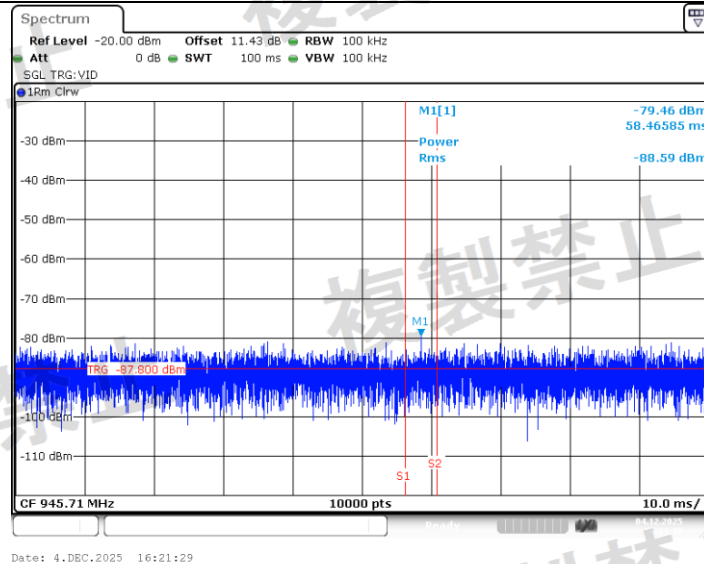


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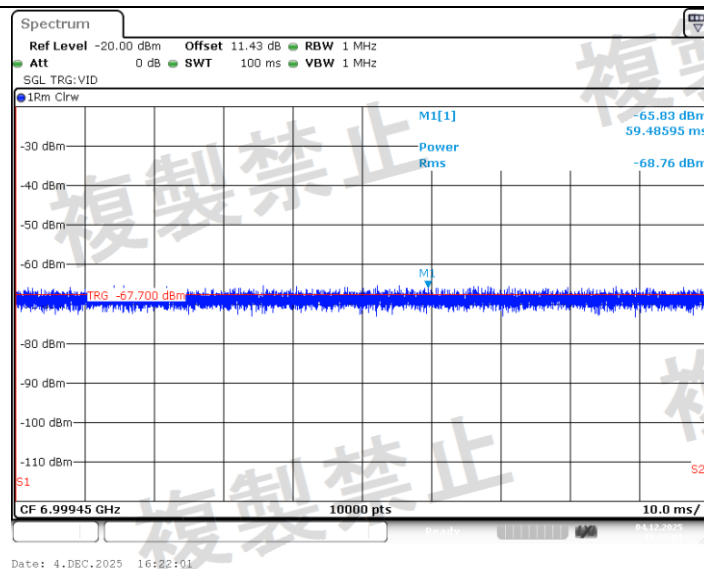
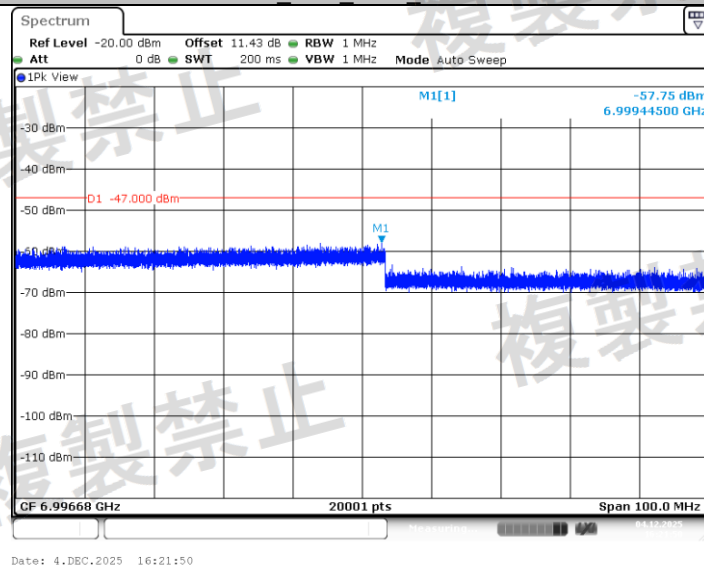


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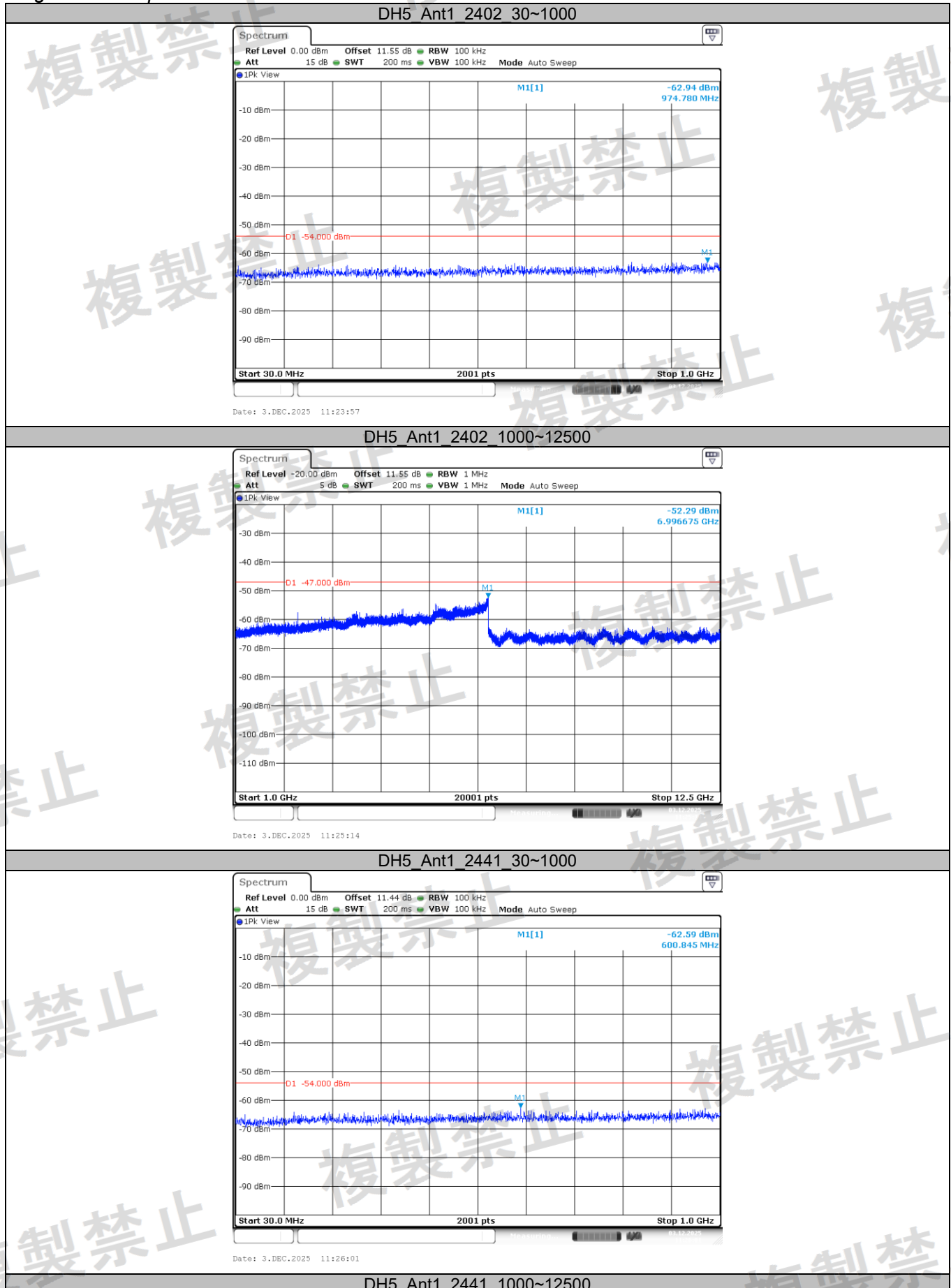


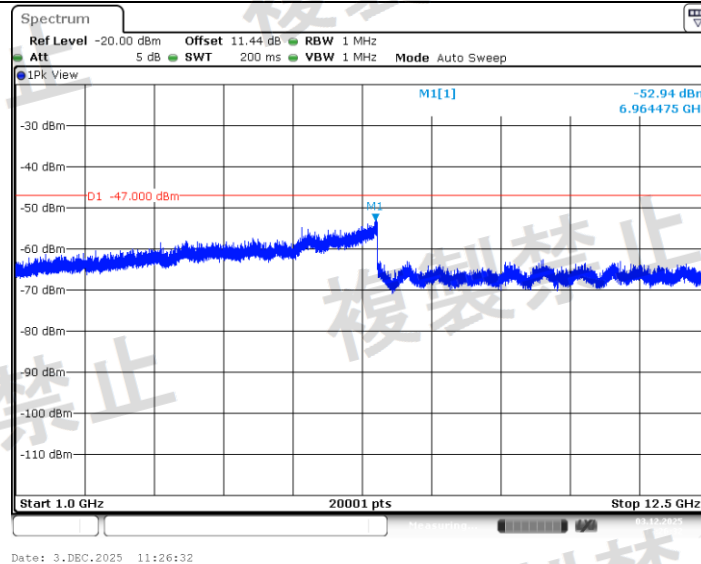
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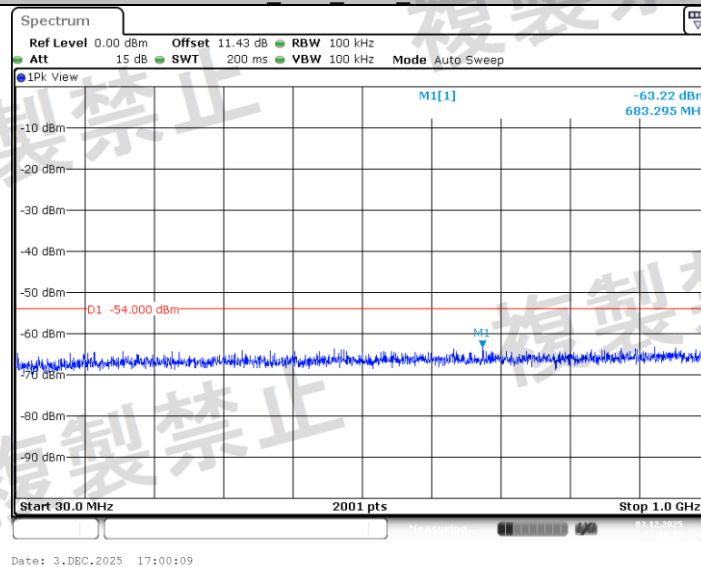


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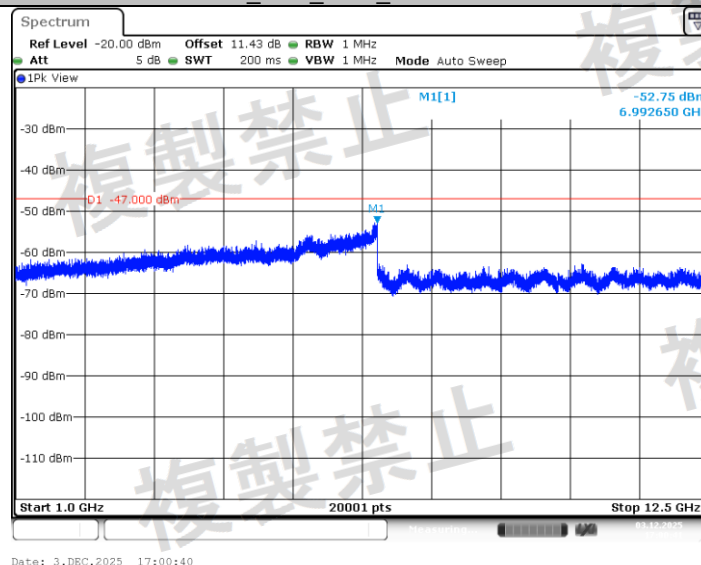




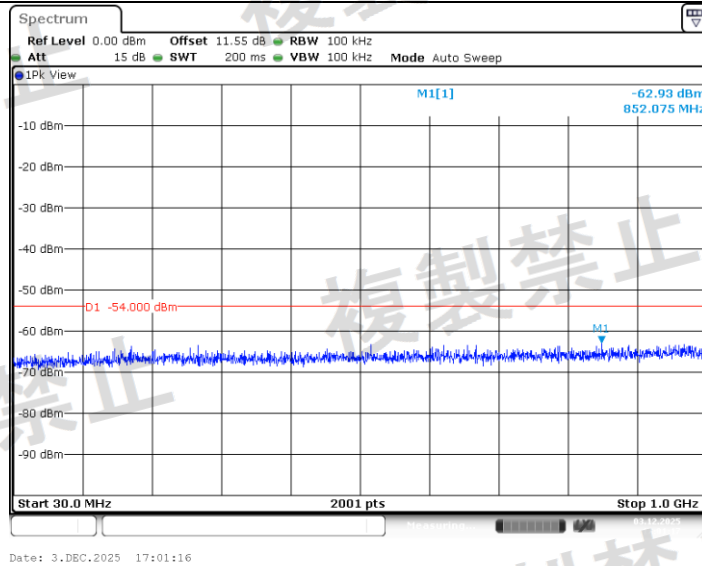
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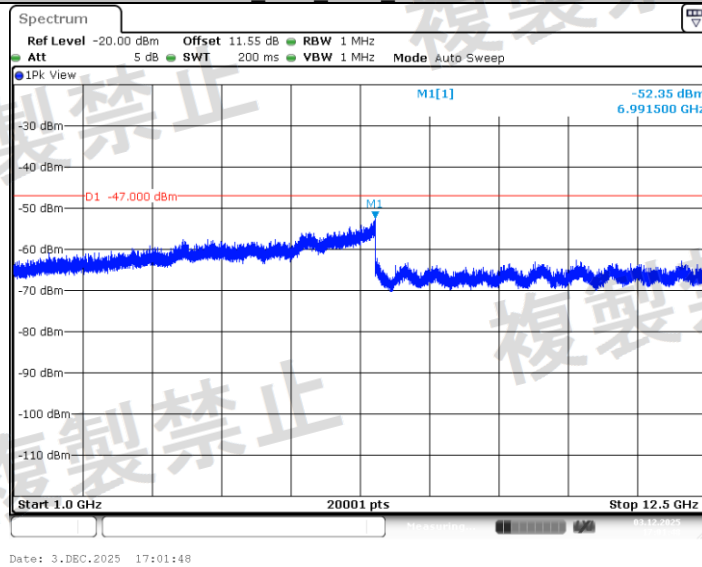
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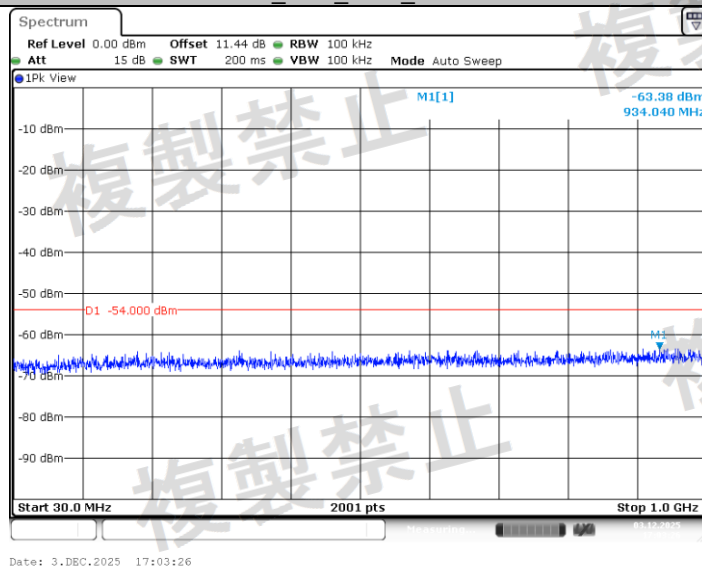
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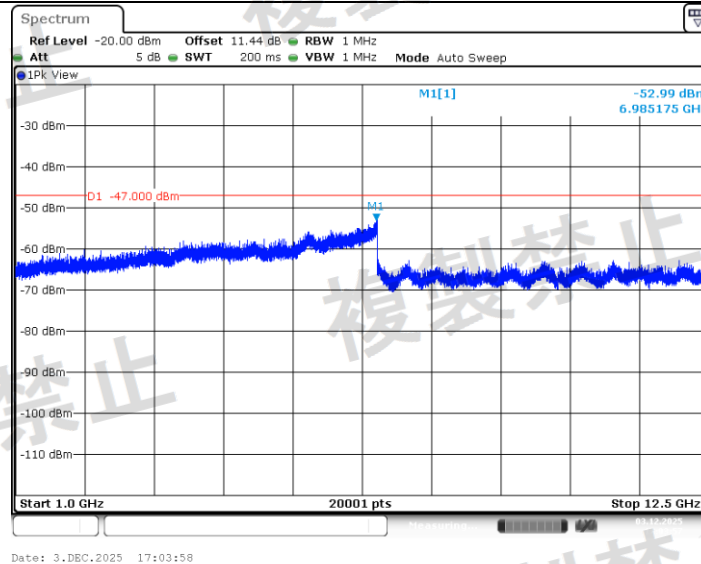
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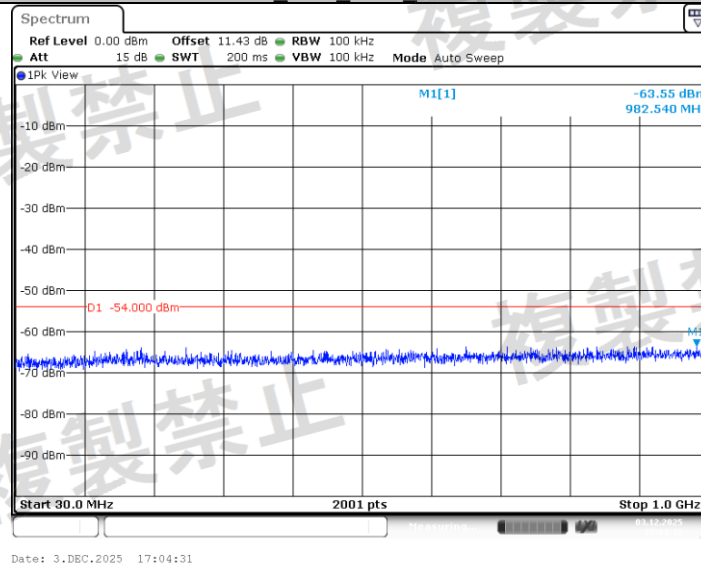
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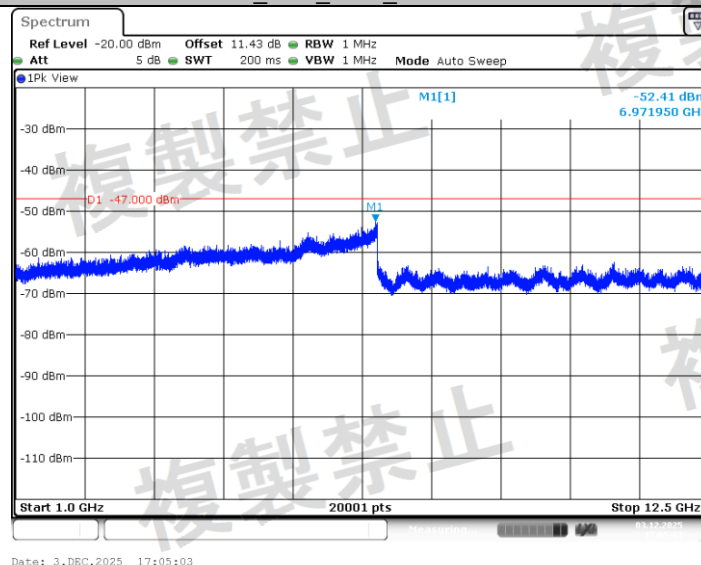
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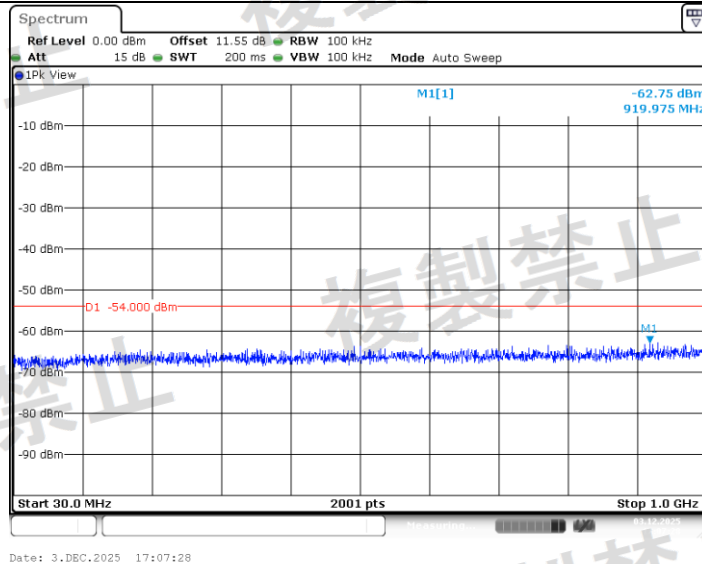
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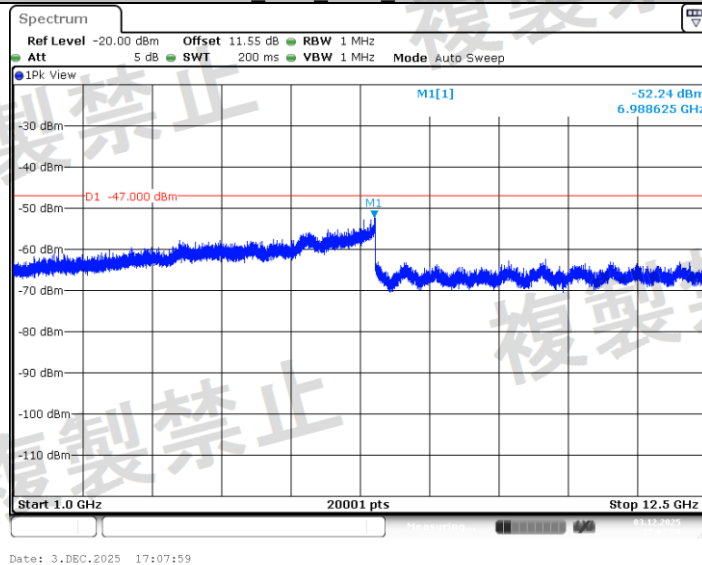
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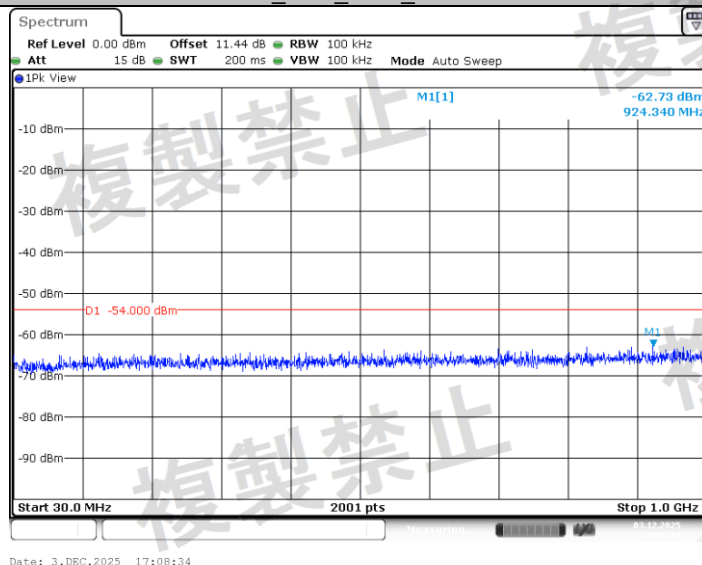
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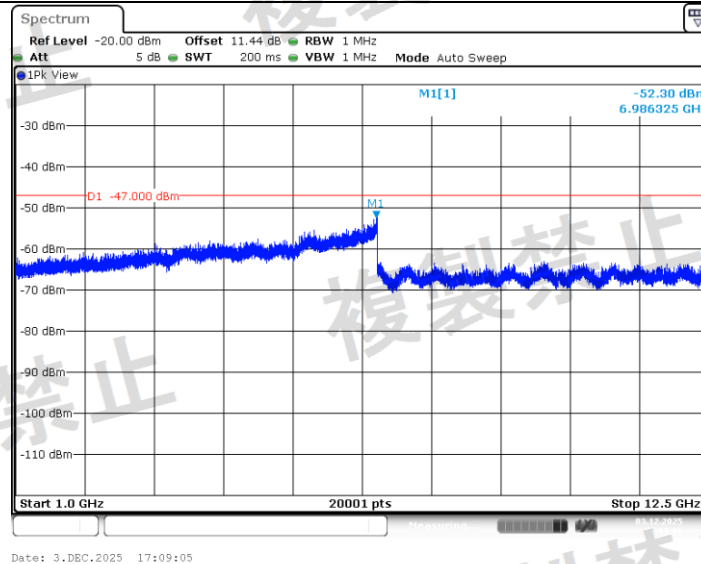
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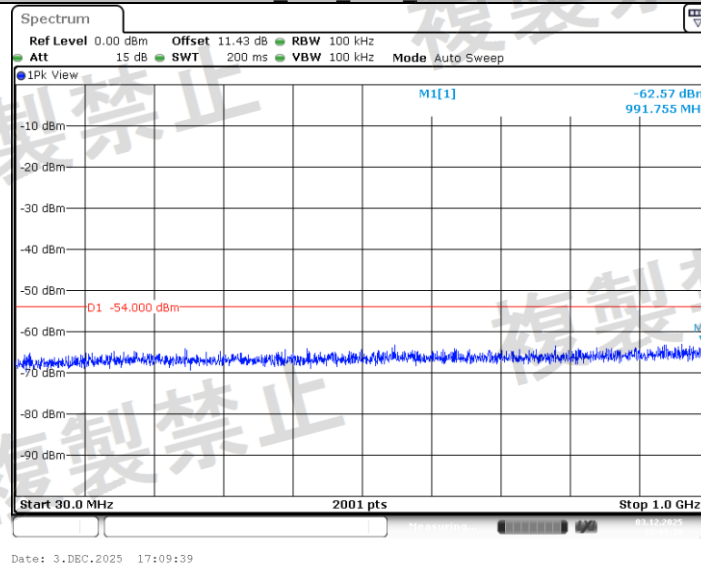
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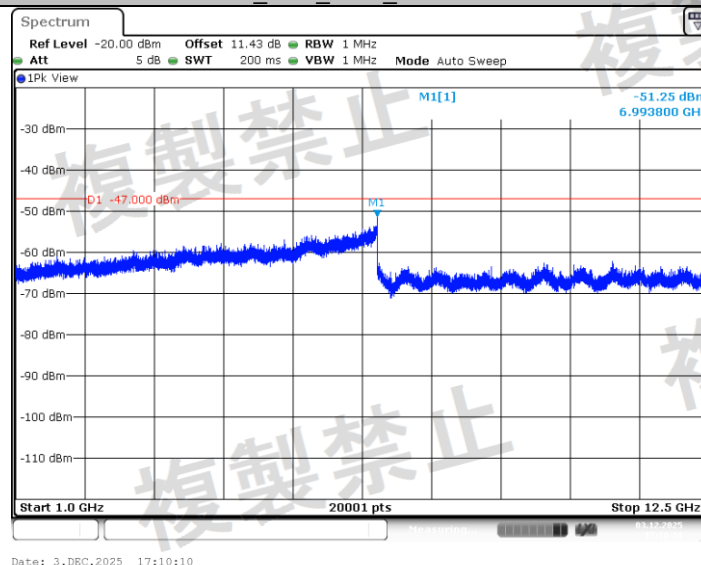
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3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~12500



Test Graphs_Step2

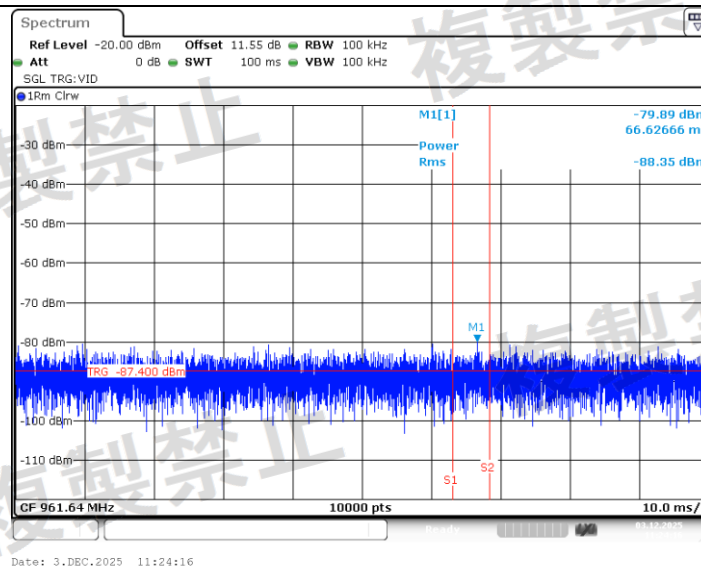
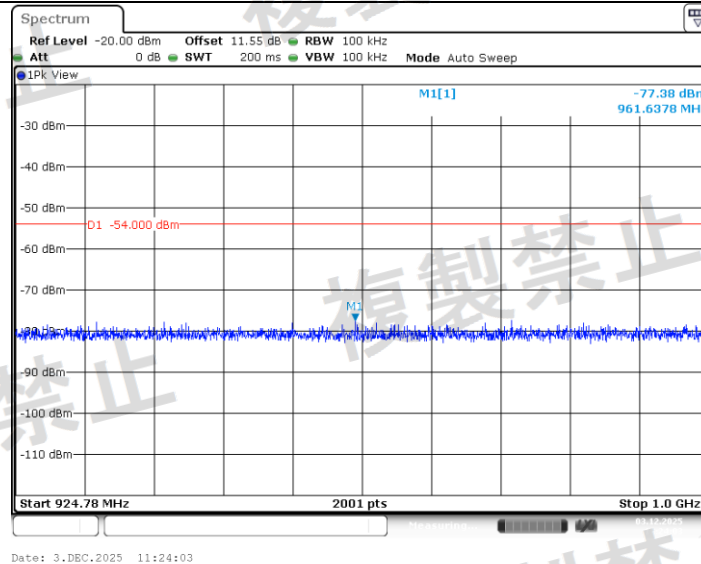
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CTC Laboratories, Inc.

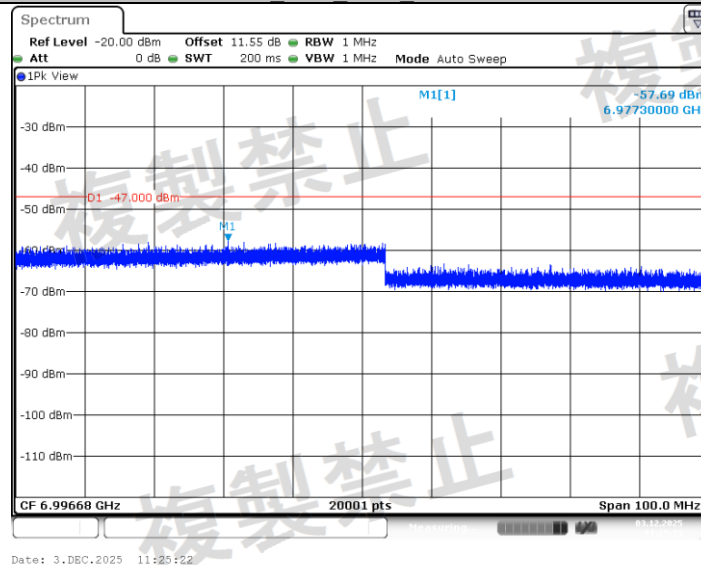
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

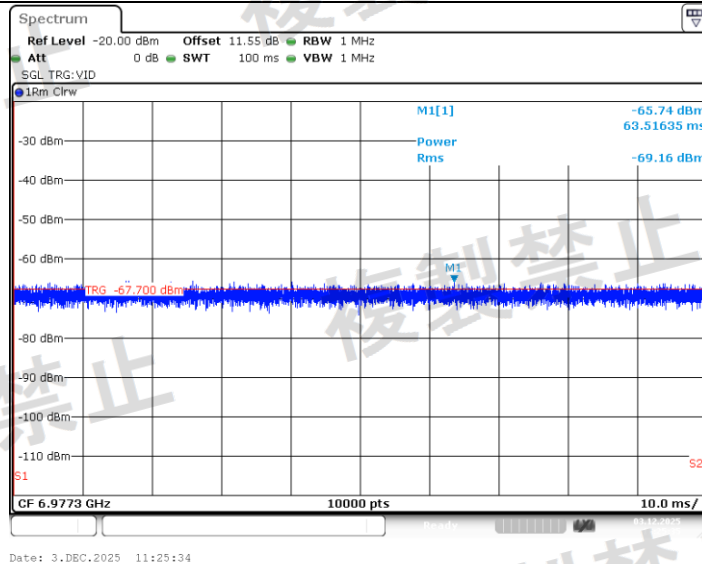
TRF No: CTC-TR-074_A3

Master TRF : Dated 2026-01-01

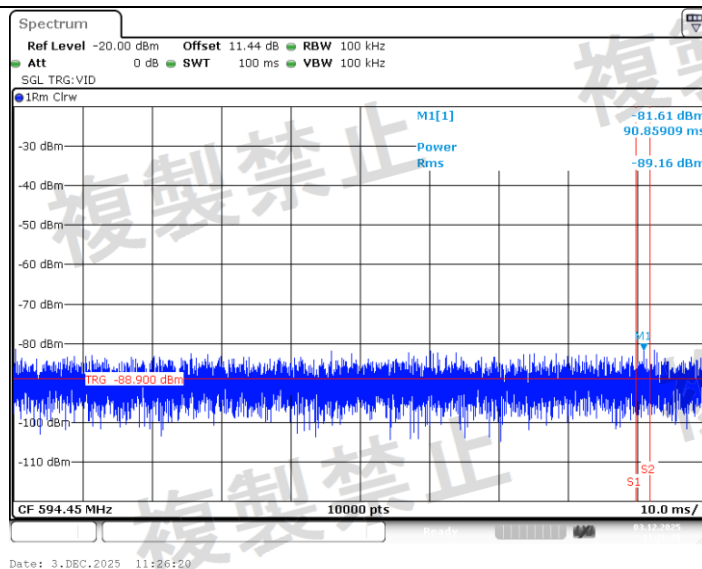
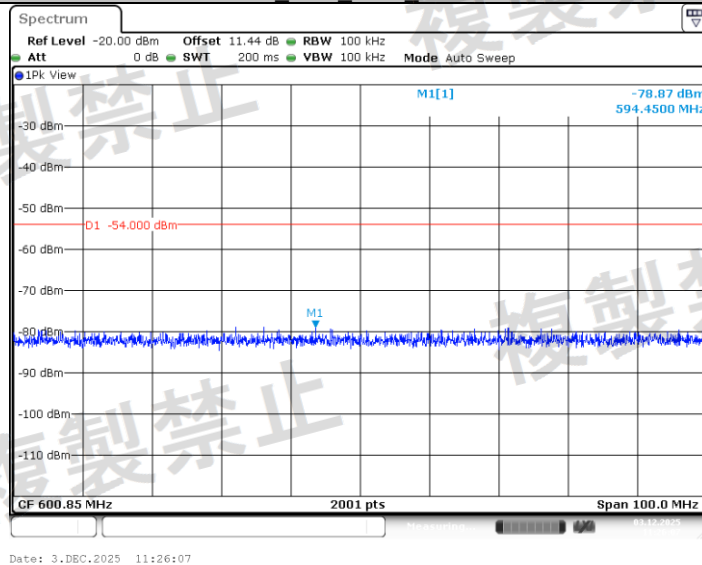


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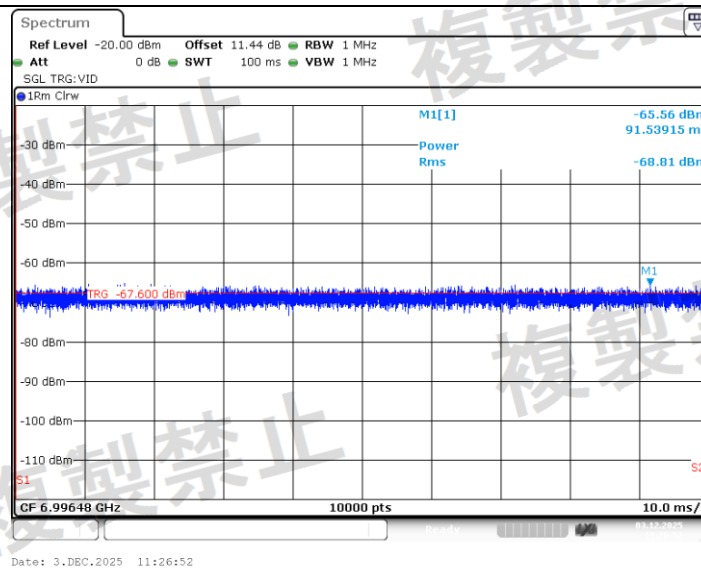
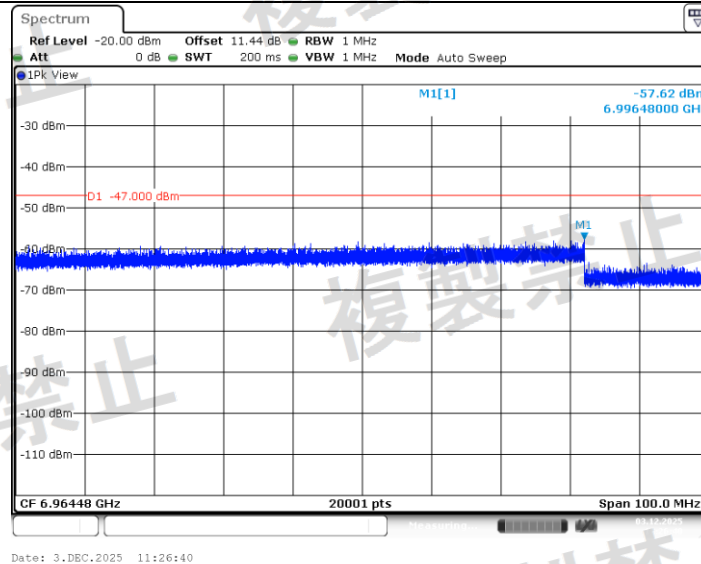




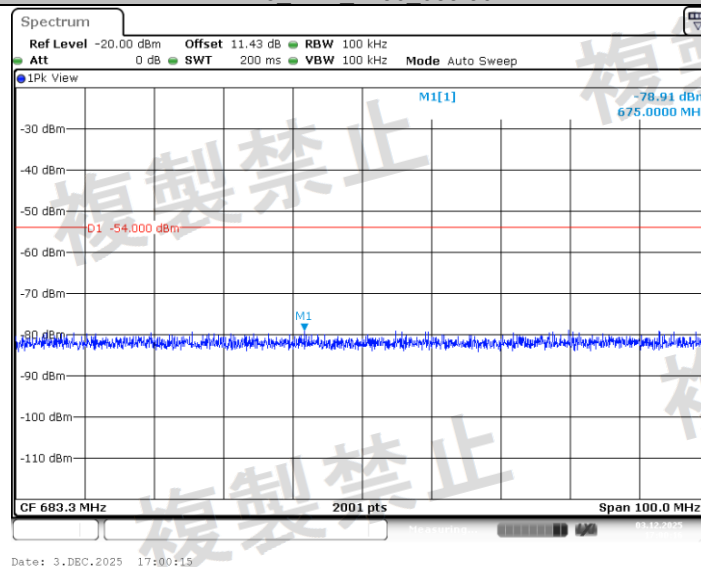
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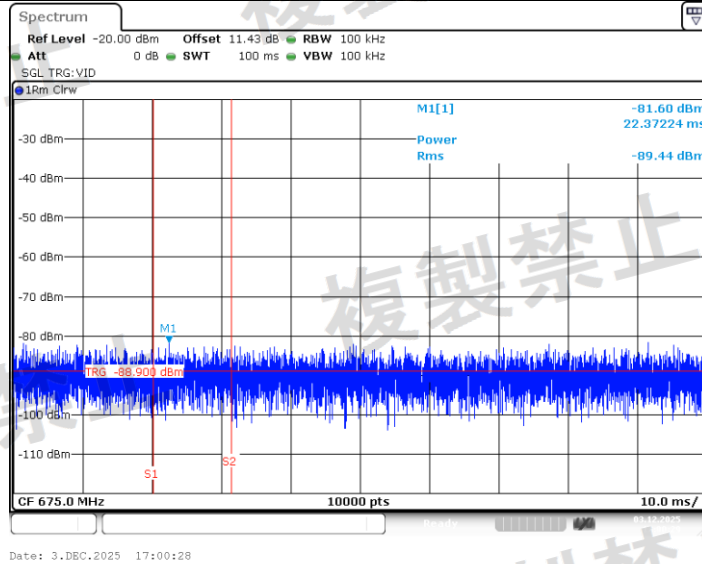


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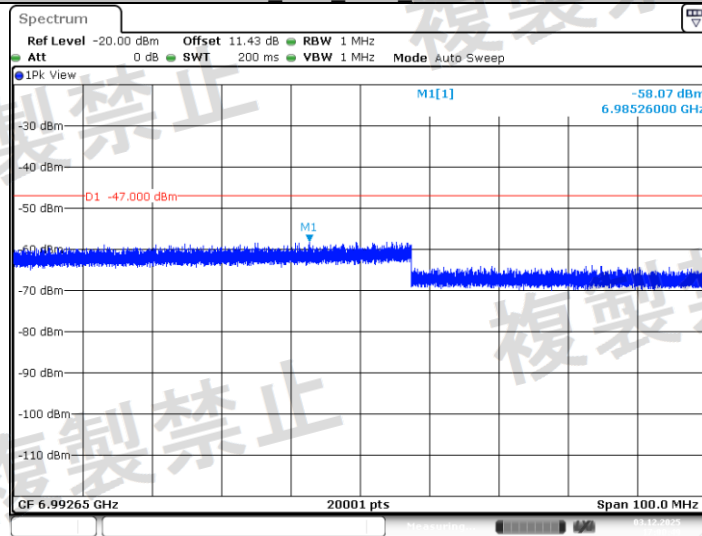
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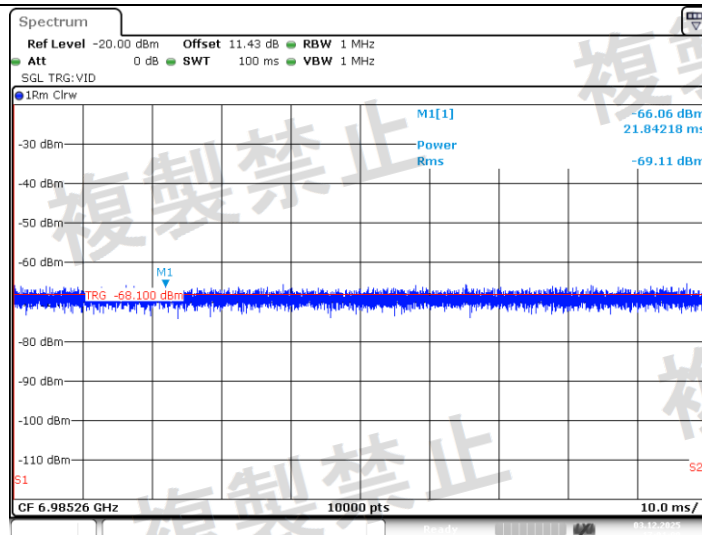


Date: 3.DEC.2025 17:00:28

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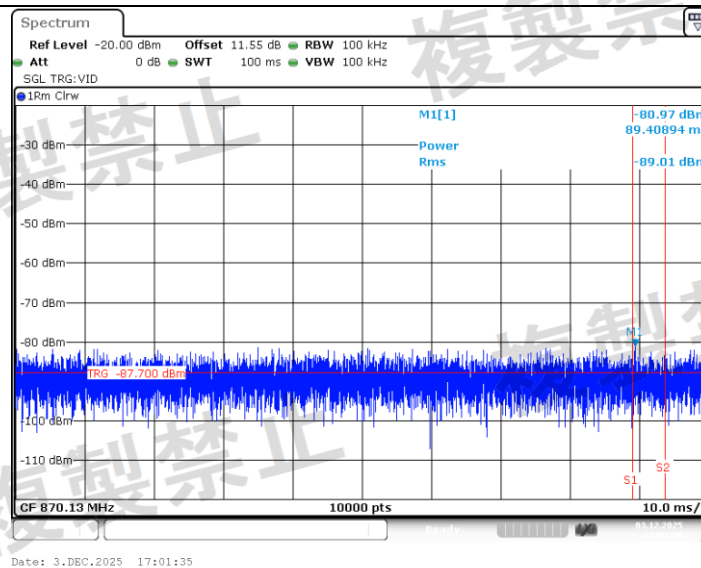
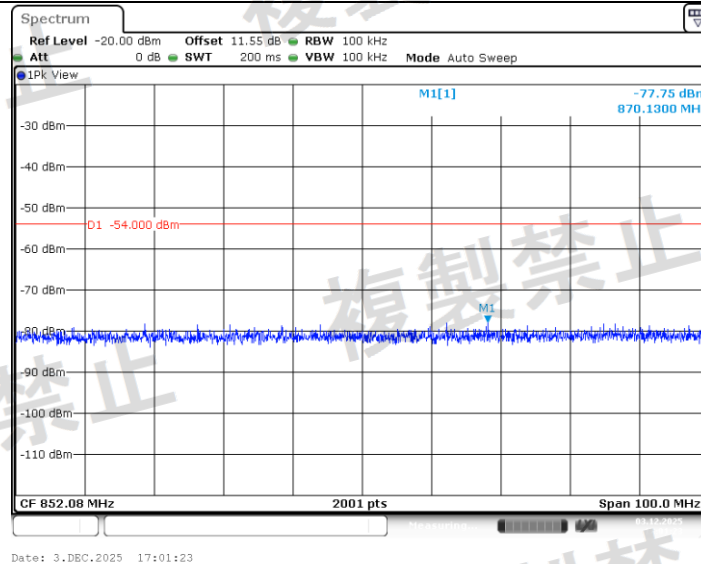


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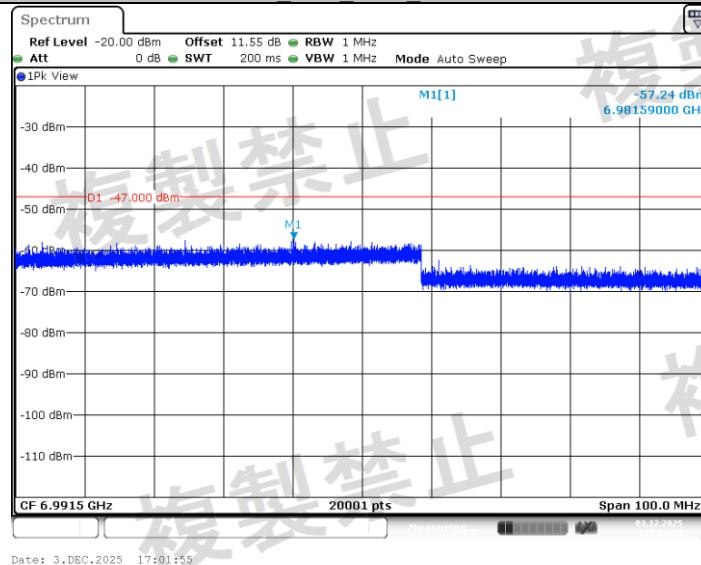


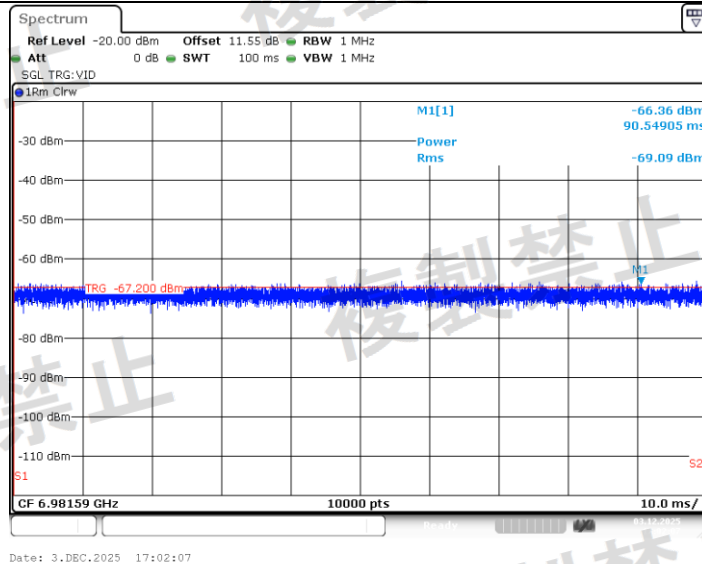
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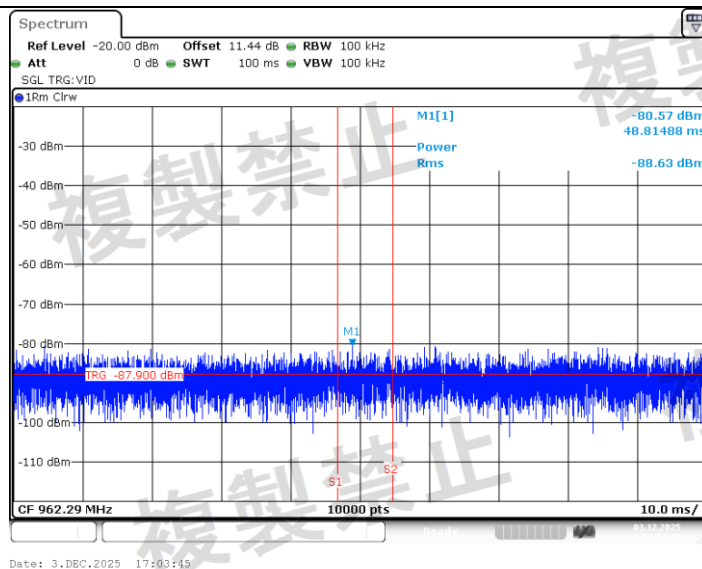
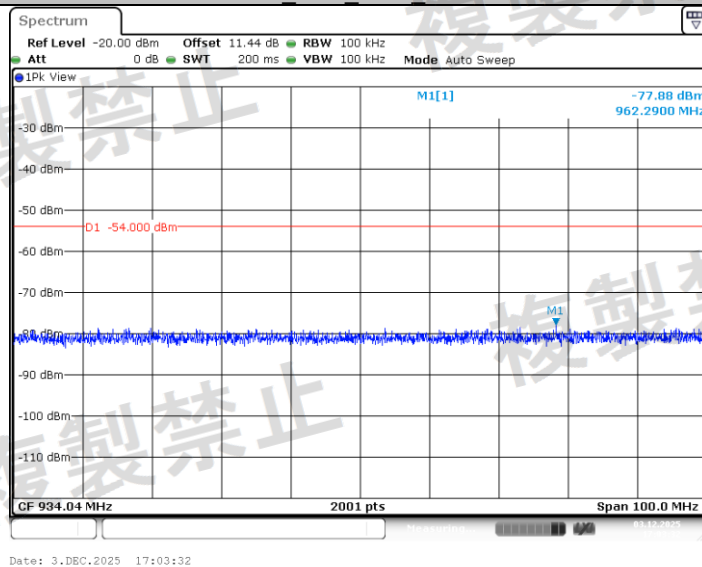


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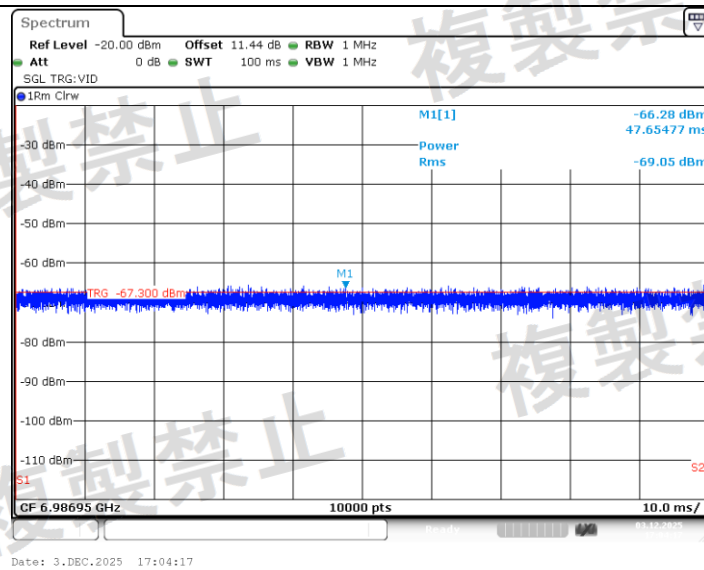
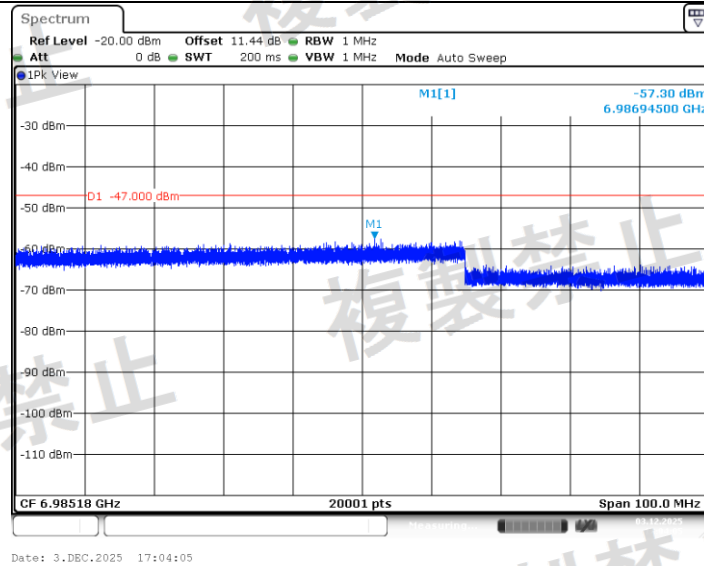




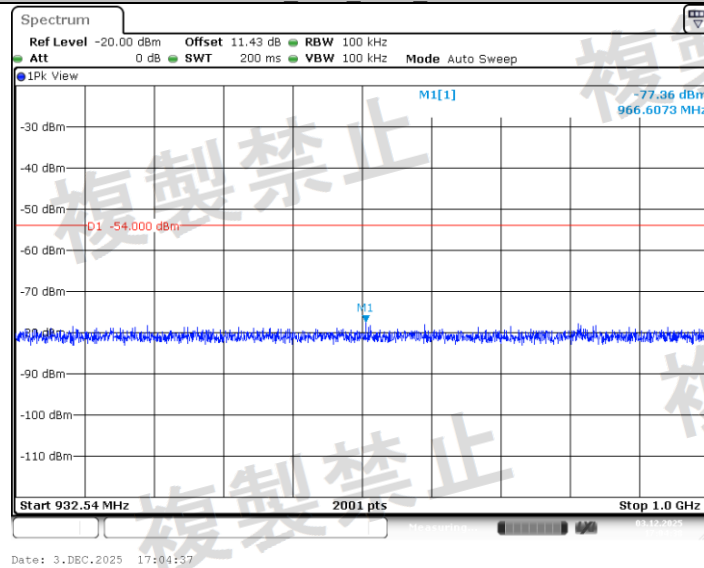
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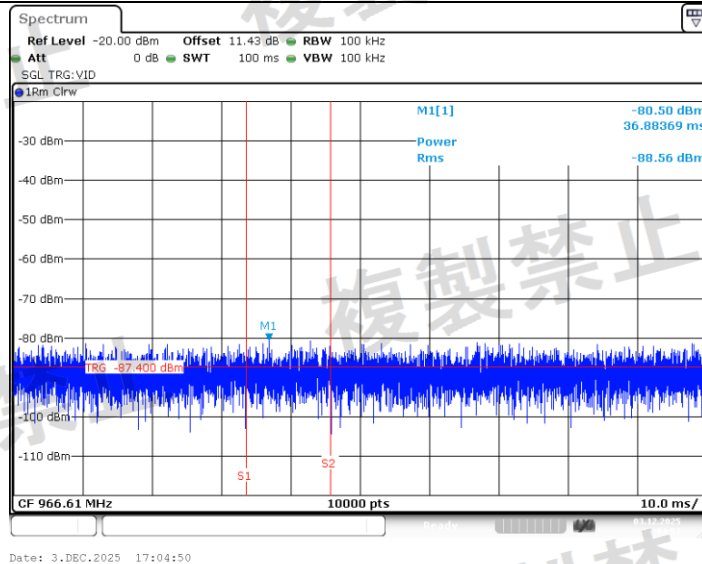


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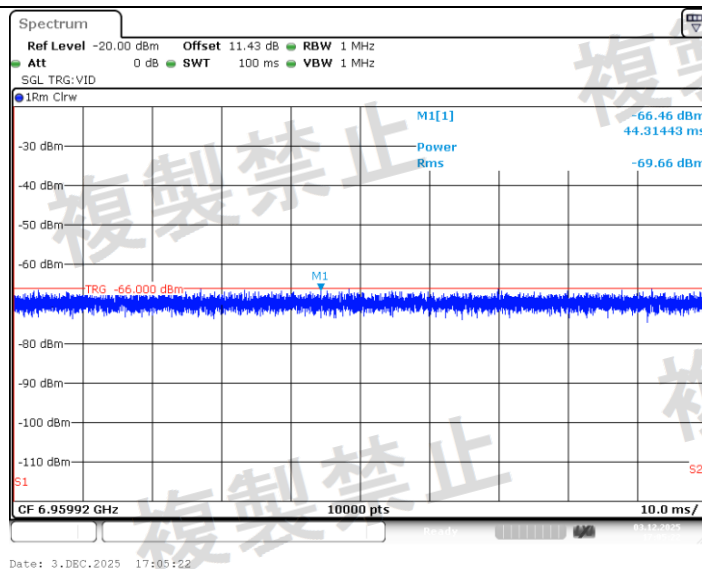
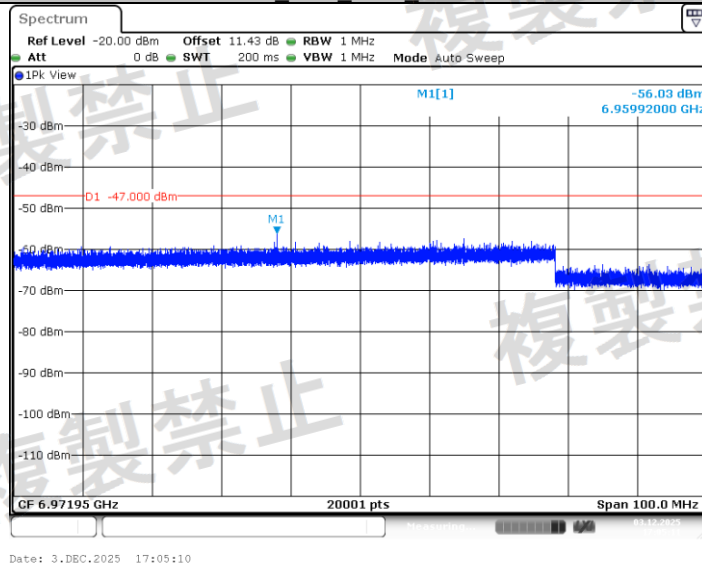


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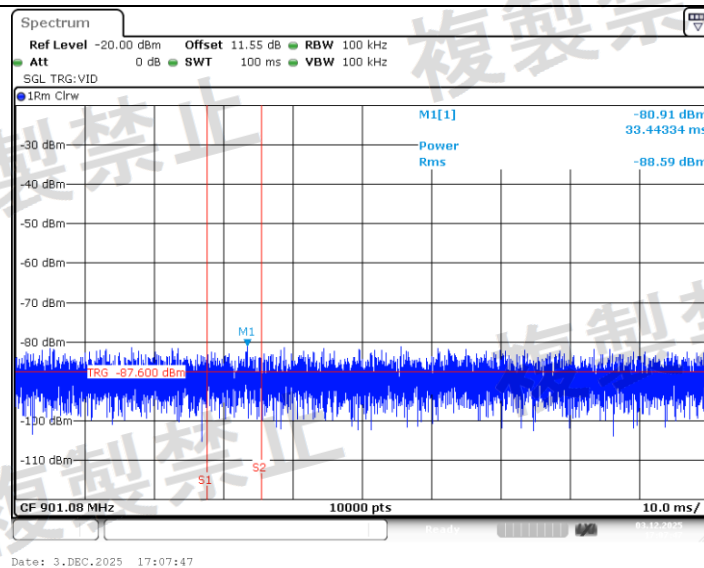
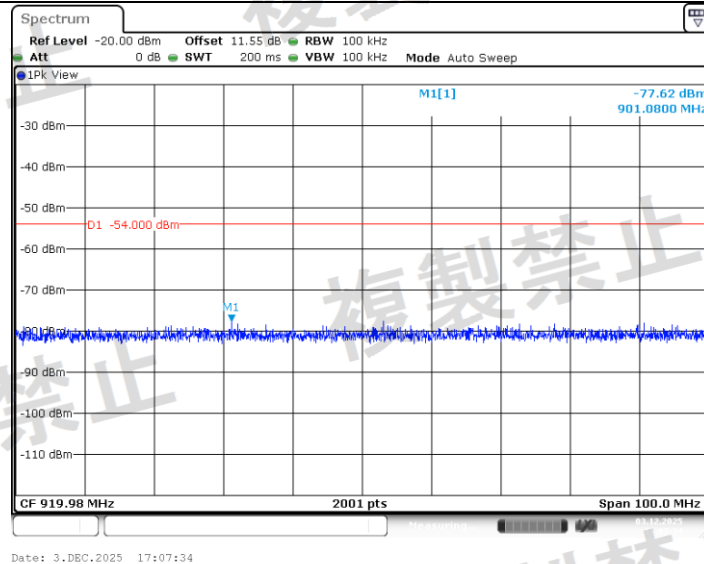




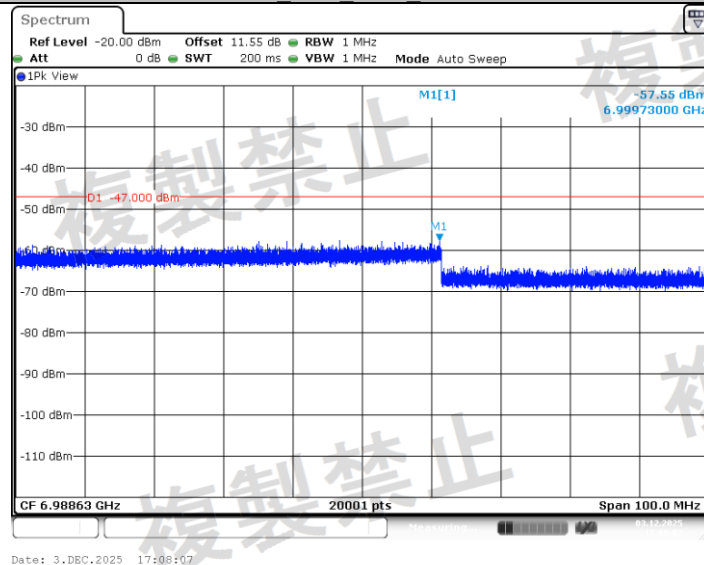
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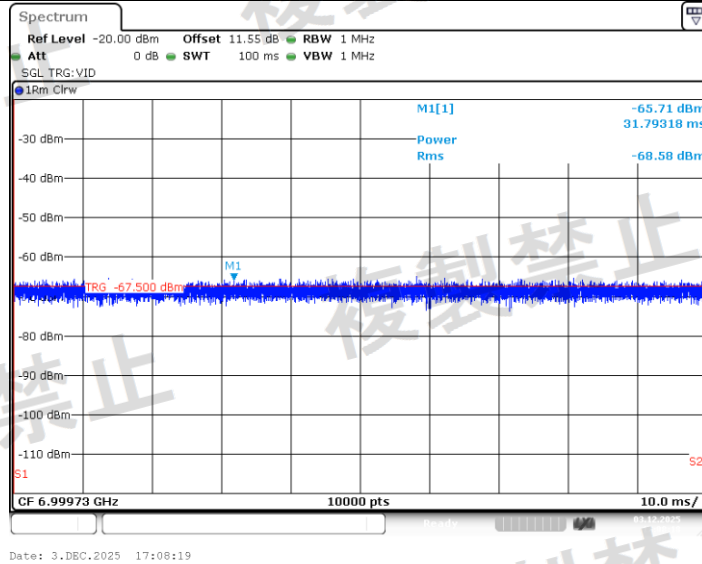


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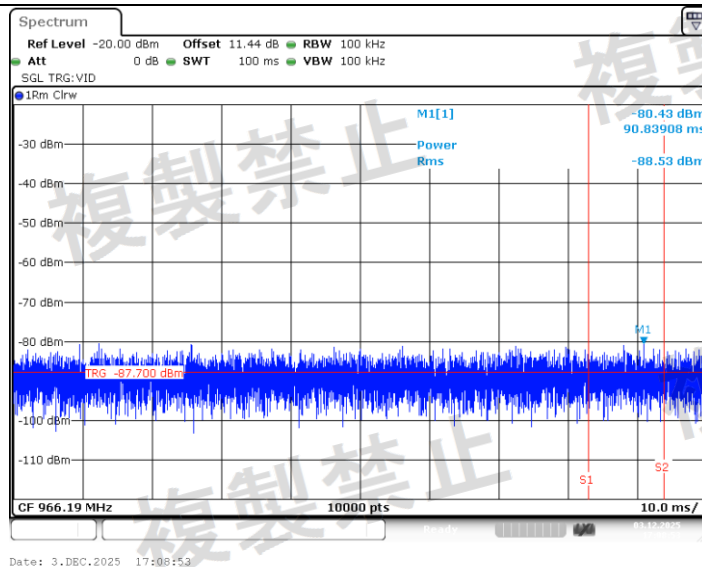
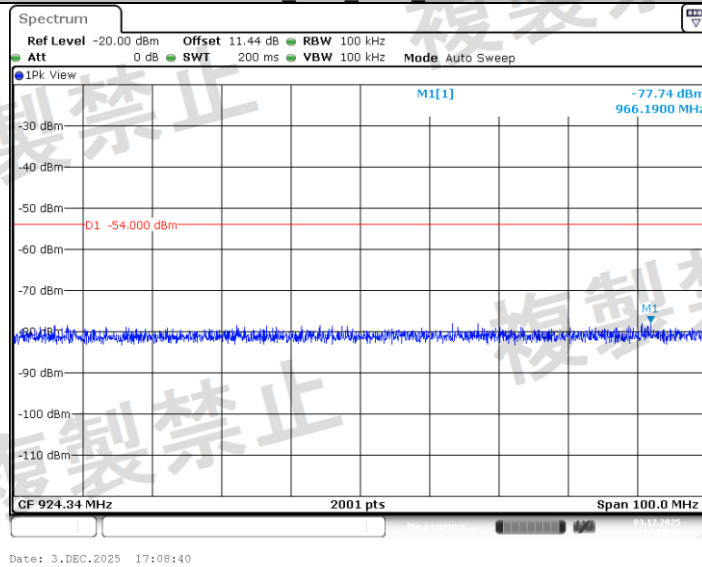


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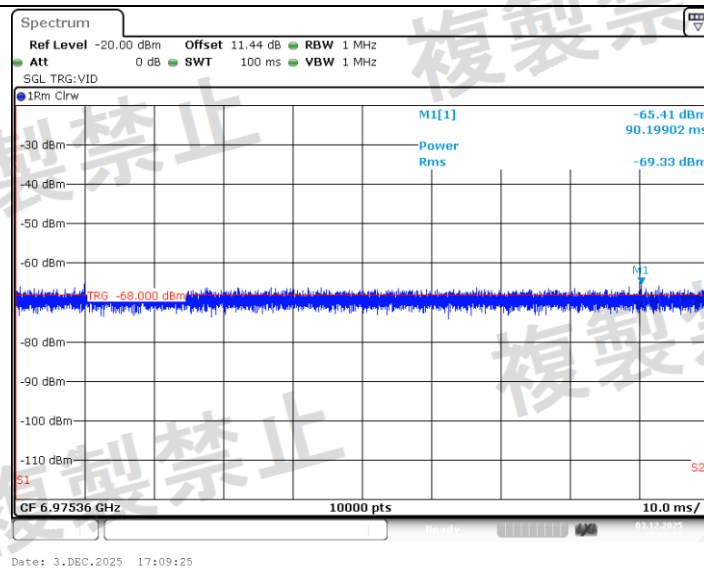
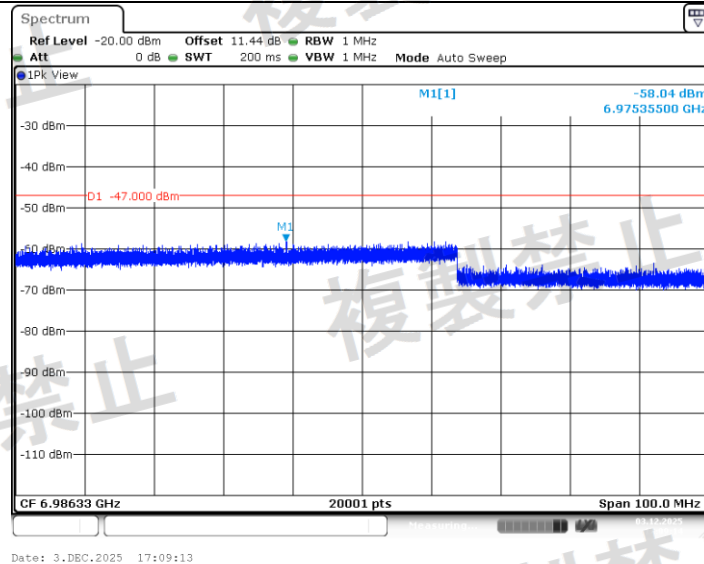




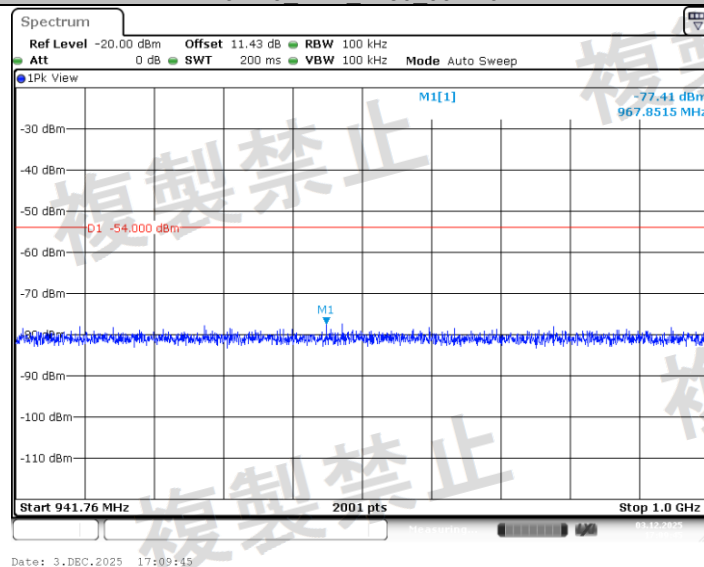
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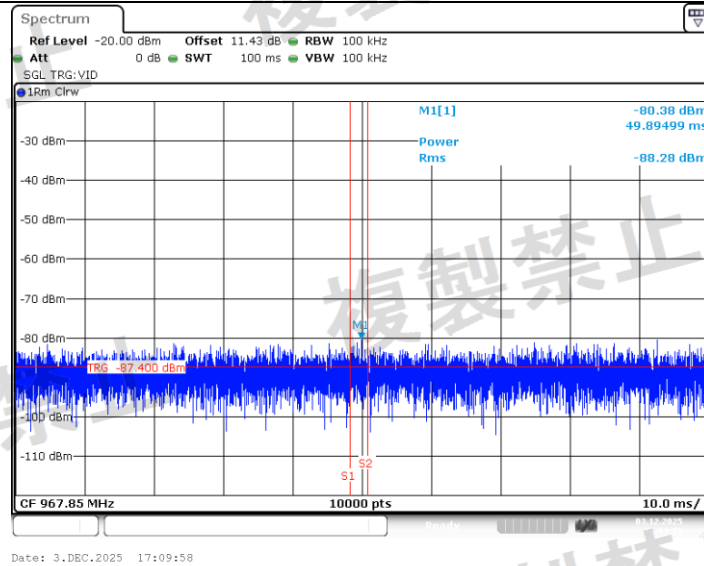


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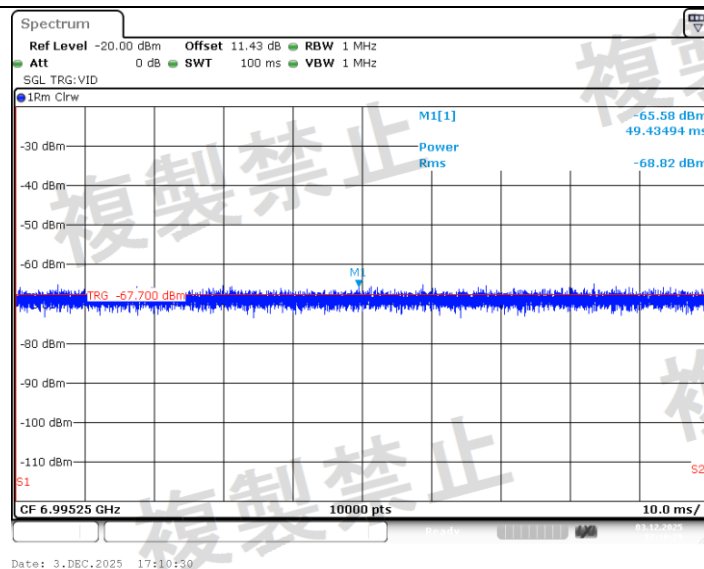
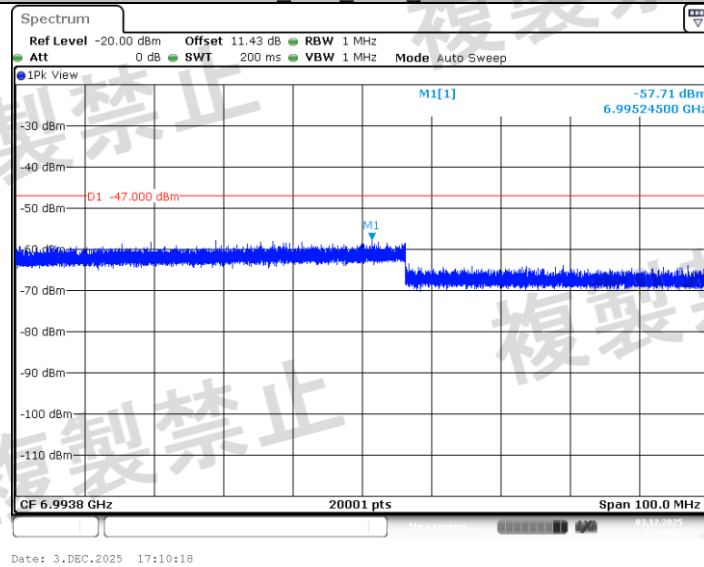


3DH5 Ant1 2480 991.76





3DH5_Ant1_2480_6993.80





3.7. Construction protection confirmation method

Requirement

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

Reference to the test report No.: CTC2025745601.



3.8. Interference Prevention Function

Module apply DSSS technique, in which the message signal is used to modulate a bit sequence known as the Pseudo Noise (PN) code; this PN code consists of pulses of a much shorter duration (larger bandwidth) than the pulse duration of the message signal, therefore the modulation by the message signal has the effect of chopping up the pulses of the message signal and thereby resulting in a signal which has a bandwidth nearly as large as that of the PN sequence. In this context the duration of the pulse of the PN code is referred to as the chip duration and the smaller this value, the larger the bandwidth of the resultant DSSS signal and the more immune to interference the resultant signal becomes.

TEST SOFTWARE

TEST PROCEDURE

TEST RESULTS

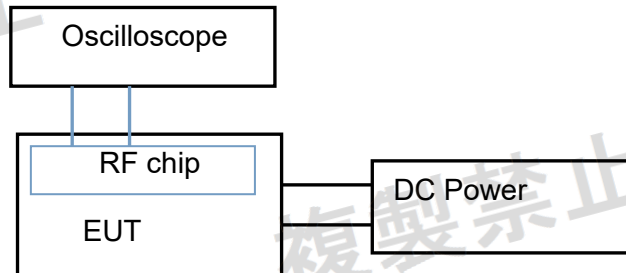
Reference to the test report No.: CTC2025745601.



3.9. Condition for Voltage Stabilization

- In the case of a characteristic test in the technical regulations conformity certification, the power supply supplies the voltage rating
- Other cases
The power supply supplies the voltage rating and the rating. However, when it can be confirmed that the change of the input voltage to the wireless part circuit of the testing machine is 1% or less when the input voltage to the testing machine from the external source changes at 10%, examines it only by the voltage rating.

TEST CONFIGURATION



TEST PROCEDURE

Reference to the test report No.: CTC2025745601.

3.10. Transmission Radiation Angle Width (3DB Beamwidth) Measurement

LIMIT

Item	Limits
	(See Article 49-20, Item1-f of the Ordinance Regulating Radio Equipment)
3dB antenna beam width	$360/A$ (if $A < 1$; then $A = 1$) $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$

MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the spectrum analyzer.

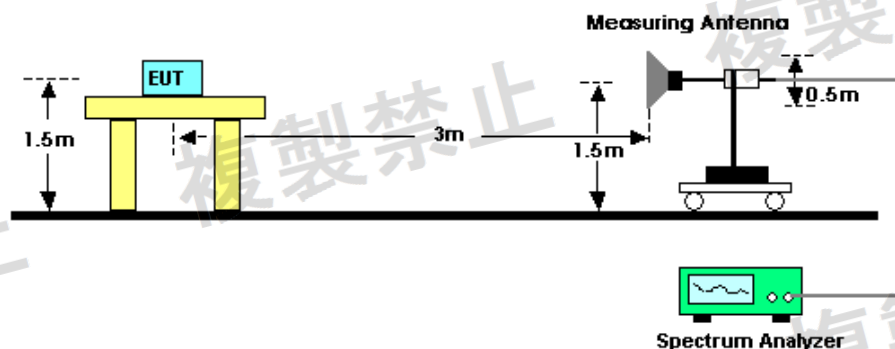
Spectrum Parameter	Setting
Attenuation	Auto
Span	0 MHz
RBW	1 MHz
VBW	1 kHz
Y scale	5 dB
Detector	Peak
Trace	Max Hold

TEST PROCEDURES

Test method which surpass to Clause 22 of Annex No.43 of MIC Notification No.88.

1. Set EUT and measuring antenna at the same height and roughly facing each other.
2. Set spectrum analyzer with condition and tune reference level to observe receiving signal position.
3. Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
4. Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E".
5. Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
6. Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{ \text{EIRP Power [mW]} / 16.36 \text{ for DS, OFDM} \}$ or
 $A = \{ \text{EIRP Power [mW]} / 4.9 \text{ for FH} \}$

TEST SETUP





TEST RESULT OF TRANSMISSION RADIATION ANGLE WIDTH (3DB BEAMWIDTH)

Not necessary

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