

Prüfbericht-Nr.: Test report no.:		CN26Z6L5 001	Auftragsnr.: Order No.:	27229292	Page 1 of 18 Seite 1 von 18
Kunden-Referenz-Nr.: Client reference no.:		N/A	Auftragsdatum: Order date:	2026-03-31	
Auftraggeber: Client:		SKULLCANDY, INC. 1640 Redstone Center Drive, Suite 115A Park City, UT 84098			
Prüfgegenstand: Test item:		Crusher 1080 ANC			
Bezeichnung / Typ-Nr.: Identification / Type no.:		S6CNW (Trademark: Skullcandy)			
Auftrags-Inhalt: Order content:		Type test			
Prüfgrundlage: Test specification:		Notification No.88 of MIC, 2004 Annex 43 Ordinance Regulating Radio Equipment 49-20-1 ARIB STD-T66, Article 2 Section 1 Item 19			
Wareneingangsdatum: Date of sample receipt:		2026-04-14			
Prüfmuster-Nr.: Test sample no.:		A004250009			
Prüfzeitraum: Testing period:		2026-04-15 – 2026-05-13			
Ort der Prüfung: Place of testing:		TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:		TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:		Pass			
geprüft von: tested by:				genehmigt von: authorized by:	
Datum: Date:		2026-05-13		Ausstellungsdatum: Issue date:	
Stellung / Position:		Project Manager		Stellung / Position: Authorizer	
Sonstiges / Other:		This test report is for Classic Bluetooth function.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: * Legend:		P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
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Remarks
Anmerkungen

- | | |
|---|--|
| 1 | <p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</p> <p><i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
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| 3 | <p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</p> <p><i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i></p> |
| 4 | <p>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</p> <p><i>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i></p> |

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1 TEST SITES

1.1 TEST FACILITIES

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Equipment	Manufacturer	Model	Serial No.	Calibration Company	Date calibrated	Cal. until	Note (Radio Law)
Wireless Connectivity Tester	R&S	CMW270	101375	GRGTEST	23.09.2025	22.09.2026	24-2-4-2-(ha)
Signal Analyzer	Rohde & Schwarz	FSV 40	101441	GRGTEST	23.09.2025	22.09.2026	24-2-4-2-(ha)
Power Meter	Rohde & Schwarz	NRP2	107105	GRGTEST	30.10.2025	29.10.2026	24-2-4-2-(ha)
Power Sensor	Rohde & Schwarz	NRP-Z81	105677	GRGTEST	23.09.2025	22.09.2026	24-2-4-2-(ha)
DC Power Supply	KIKUSUI	PAN35-5A	YM002997	GRGTEST	02.02.2026	01.02.2027	24-2-4-2-(ha)
Digital Multi Meter	FLUKE	F15B	44350844WS	GRGTEST	02.02.2026	01.02.2027	24-2-4-2-(ha)

1.3 UNCERTAINTY OF MEASUREMENT

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

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

ITEM	UNCERTAINTY
Occupied Bandwidth	206.50 Hz
Spurious emissions	$\pm 3.93\text{dB}$
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 ppm

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2 GENERAL PRODUCT INFORMATION

2.1 PRODUCT FUNCTION AND INTENDED USE

The EUT is Bluetooth Headset, it supports Bluetooth dual mode technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

2.2 RATINGS AND SYSTEM DETAILS

Table 2: Technical Specification of EUT

General Information of EUT		Description
Kind of Equipment:		Crusher 1080 ANC
Type Designation:		S6CNW
Trademark:		Skullcandy 
Extreme Temperature Range		-10°C to +60°C
Operating Voltage:		DC 3.8V 1200mAh via internal rechargeable lithium battery DC 5V via USB-C port
Hardware release No.:		V04
Software release No.:		V0.3.3
Technical Specification of Bluetooth (BDR & EDR)		
Characteristic		Description
Operating Frequency band		2402 – 2480 MHz
Channel Number		79 channels
Channel separation		1MHz
Modulation		GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Type		Monopole Antenna
Antenna Gain		5.16 dBi (Provided by the Client)
rated RF output power:		Please refer to Note 1
Conducted RF output power:		Please refer to Note 1
EIRP output power:		Please refer to Note 1
Technical Specification of Bluetooth Low Energy		
Operating Frequency band		2402 – 2480 MHz for data rate 1Mbps 2404 – 2478 MHz for data rate 2Mbps
Channel Number		40 channels for data rate 1Mbps 38 channels for data rate 2Mbps Note: 2402MHz/2480MHz will be disable via software for data rate 2Mbps.
Channel separation		2MHz
Data rate		1Mbps, 2Mbps
Modulation		GFSK
Antenna Type		Monopole Antenna
Antenna Gain		5.16 dBi (Provided by the Client)

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NOTES:

1. The power table as below table:

Test mode	Rated output power density (mW/MHz)	Conducted power density (mW/MHz)
GFSK	0.20	0.0797
GFSK Enable AFH function	1.0	0.2918
8DPSK	0.20	0.0799
8DPSK Enable AFH function	1.0	0.2818

2. For the test results, the EUT had been tested with all conditions.
-
3. The above EUT information was declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or user's manual.

Table 3: RF Channel and Frequency, Bluetooth (BDR & EDR)

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

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Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

Six modes are provided:

Mode	Conditions
Mode A	GFSK
Mode B	$\pi/4$ -DQPSK
Mode C	8DPSK
Mode D	Enable AFH GFSK
Mode E	Enable AFH $\pi/4$ -DQPSK
Mode F	Enable AFH 8DPSK

Note:

- For the test results, the EUT had been tested with all conditions. But only the worst case (Mode A & Mode C & Mode D & Mode F) was shown in test report.
- For AFH function only tested occupied bandwidth, spreading bandwidth, Antenna power and dwell time.

2.3 TEST CONDITIONS

Test conditions	Voltage (Vdc)
V_{normal}	3.80
V_{max}	4.18
V_{min}	3.42

Test conditions	Unit
Temperature	23.5 deg °C
Humidity	53.0 %

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2.4 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A

2.5 ANTENNA SPECIFICATIONS

2.5.1 ANTENNA GAIN

Ant. Type	Connector Type	Highest Peak Gain (dBi) 2.4GHz ~ 2.5GHz
Monopole Antenna	N/A	5.16 dBi

2.5.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

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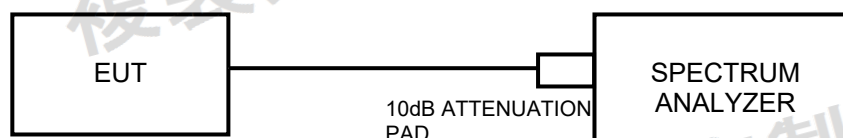
3 TEST RESULTS

3.1 FREQUENCY TOLERANCE MEASUREMENT

3.1.1 LIMITS OF FREQUENCY TOLERANCE MEASUREMENT

Tolerance of frequency shall be +/- 50ppm

3.1.2 TEST SETUP



3.1.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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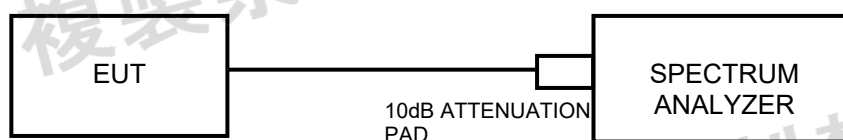
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3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

ITEM	LIMIT	REMARK
Occupied bandwidth	Occupied bandwidth shall be 83.5MHz or less.	N/A

3.2.2 TEST SETUP



3.2.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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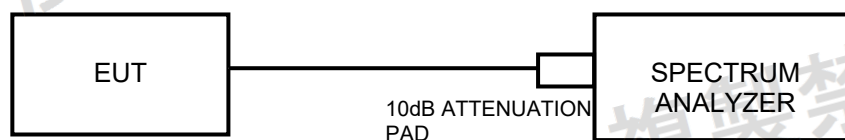
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3.3 SPREADING BANDWIDTH MEASUREMENT (90% POWER BANDWIDTH)

3.3.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

ITEM	LIMIT	REMARK
SPREADING BANDWIDTH	$\geq 500\text{kHz}$	N/A
SPREADING FACTOR	≥ 5	Operating frequency 2400 to 2483MHz
	≥ 10	Operating frequency 2471 to 2497MHz

3.3.2 TEST SETUP



3.3.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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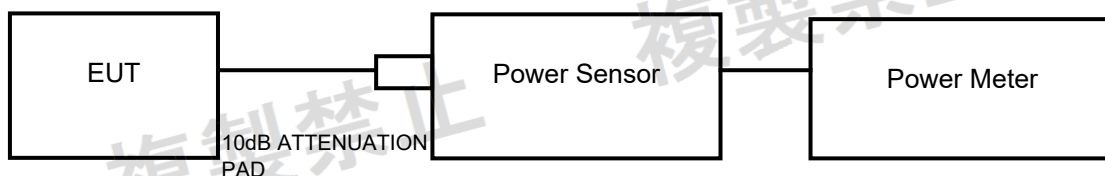
3.4 ANTENNA POWER MEASUREMENT

3.4.1 LIMITS OF ANTENNA POWER

Antenna power shall be 3mW/MHz or less.

Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

3.4.2 TEST SETUP



3.4.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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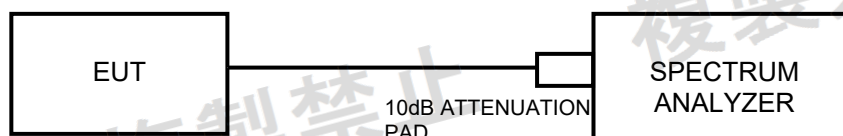
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3.5 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

3.5.1 LIMITS OF SPURIOUS EMISSIONS

FREQUENCIES (MHz)	LIMIT
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 2387MHz	$\leq 2.5\mu\text{W/MHz}$
2387.0MHz to 2400.0MHz	$\leq 25\mu\text{W/MHz}$
2483.5MHz to 2496.5MHz	$\leq 25\mu\text{W/MHz}$
2496.5MHz to 12500.0MHz	$\leq 2.5\mu\text{W/MHz}$

3.5.2 TEST SETUP



3.5.3 TEST RESULT

For the measurement records, refer to the appendix A.

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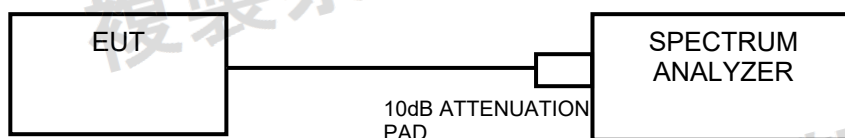
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3.6 SPURIOUS EMISSIONS FOR RECEIVER

3.6.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

FREQUENCIES (MHz)	LIMIT
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

3.6.2 TEST SETUP



3.6.3 TEST RESULT

For the measurement records, refer to the appendix A.

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3.7 MAX. BURST LENGTH / DWELL TIME

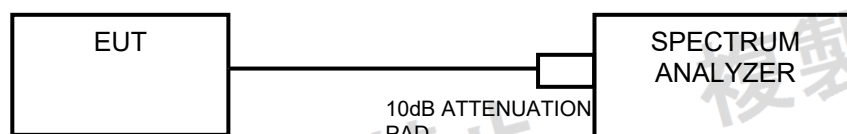
3.7.1 LIMITS OF SPREADING BANDWIDTH AND SPREADING FACTOR

The frequency retention time in the frequency hopping method shall be 0.4 second or less. The total sum of the frequency retention time in any frequency within the time obtained by multiplying the diffusion rate by 0.4 second shall be 0.4 second or shorter.

Formula : **(Normal mode)** dwell time = [Spreading rate/79] x duty ratio x 0.4 seconds

(AFH mode) dwell time = [Spreading rate/20] x duty ratio x 0.4 seconds

3.7.2 MEASURING SYSTEM BLOCK DIAGRAM



3.7.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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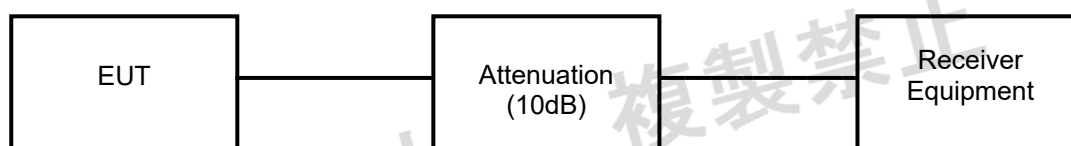
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3.8 INTERFERENCE PREVENTION FUNCTION

3.8.1 LIMITS OF Interference Prevention Function

The function specified in Article 9-4 of the Ordinance Regulating Radio Equipment

3.8.2 TEST SETUP



3.8.3 TEST RESULTS

ENVIRONMENTAL CONDITIONS	23.5 deg.C, 53.0% RH
LINK MODE	TEST RESULT
BT	PASS

EUT connected to CMW270, MAC address (8C0DD9EDA4B4) as below:



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION



---END---

Appendix A

Test results of Classical Bluetooth

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6	APPENDIX A.6: SPURIOUS EMISSIONS FOR RECEIVER.....	62
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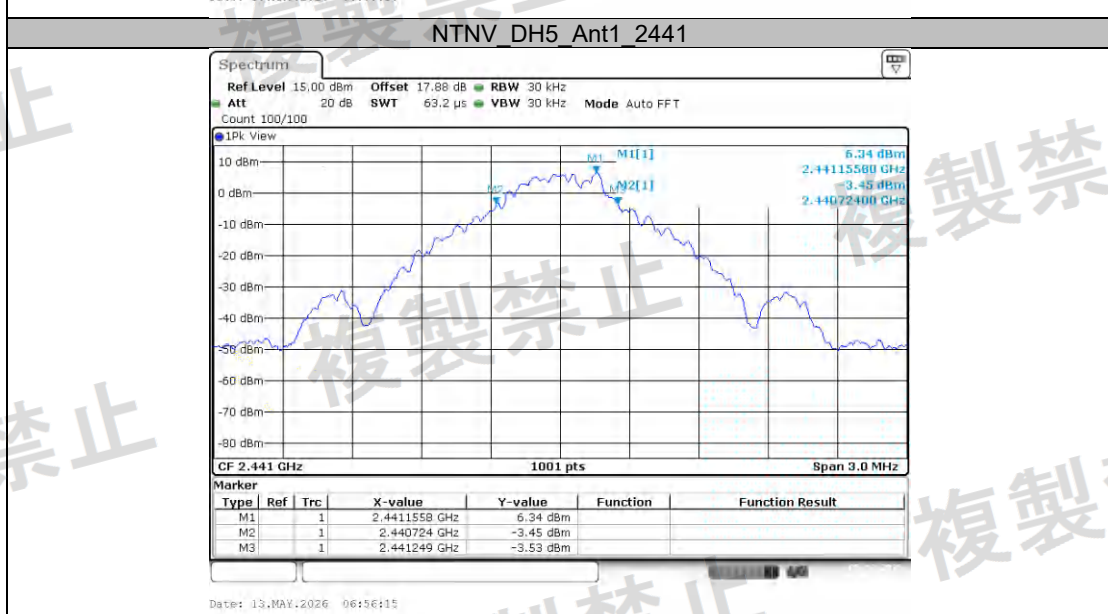
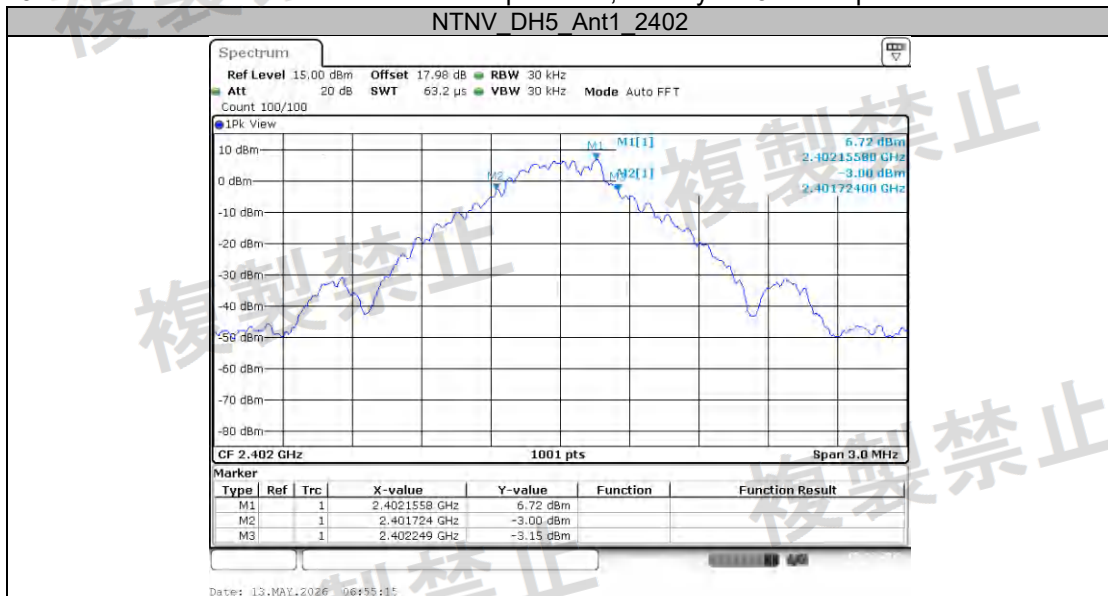
1 Appendix A.1 : FREQUENCY TOLERANCE

Note:

NTNV means: Normal Temperature & Normal Voltage, NTHV means: Normal Temperature & Max. Voltage, NTLV means: Normal Temperature & Min. Voltage.

Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	-5.62032	±50	PASS
			2441	-5.53052	±50	PASS
			2480	-5.44355	±50	PASS
NTLV	DH5	Ant1	2402	-5.62032	±50	PASS
			2441	-5.53052	±50	PASS
			2480	-5.44355	±50	PASS
NTHV	DH5	Ant1	2402	-5.62032	±50	PASS
			2441	-5.53052	±50	PASS
			2480	-6.04839	±50	PASS

Note: DH5 was the worst-case scenario under the pre-scan, so only DH5 was reported.

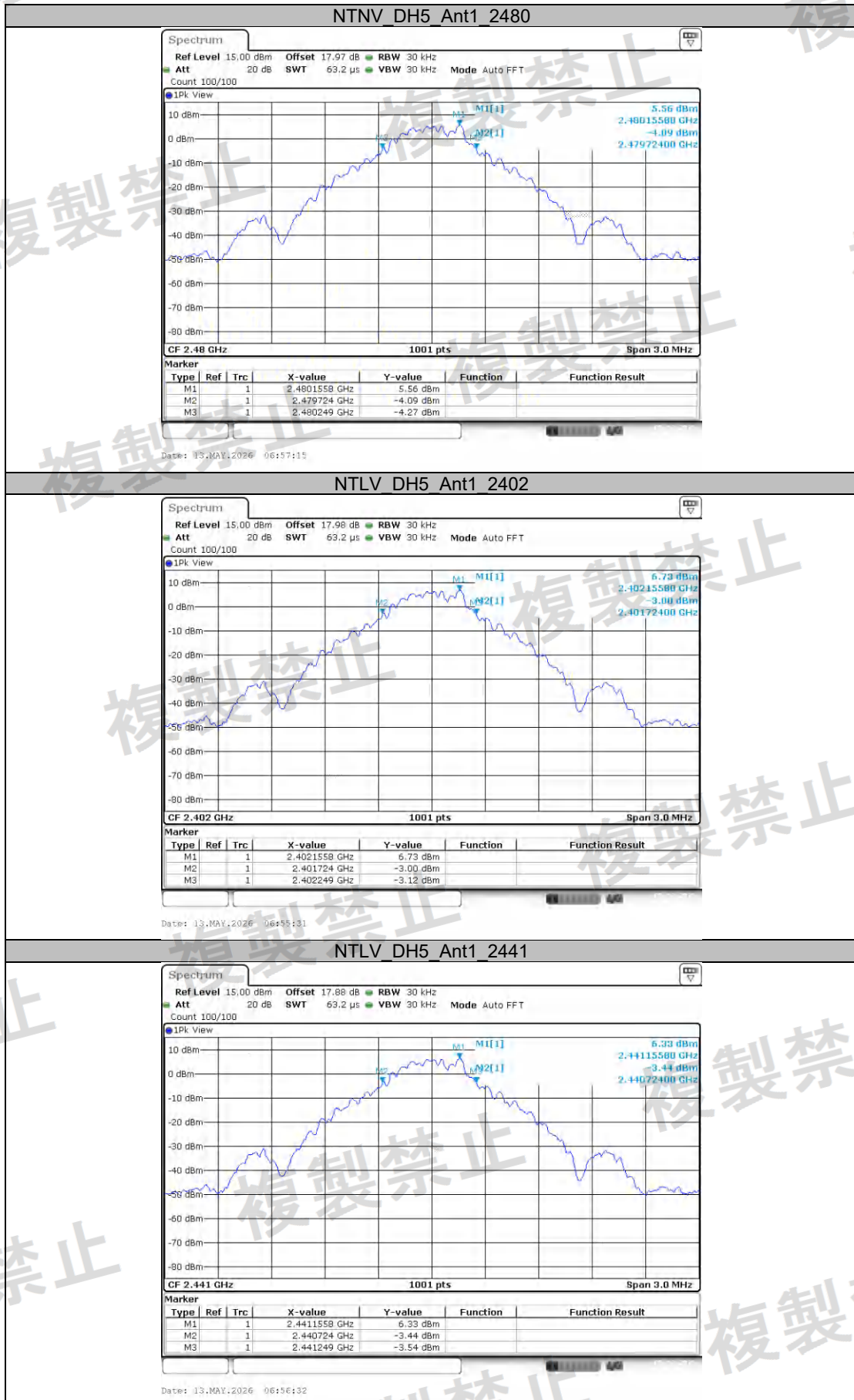


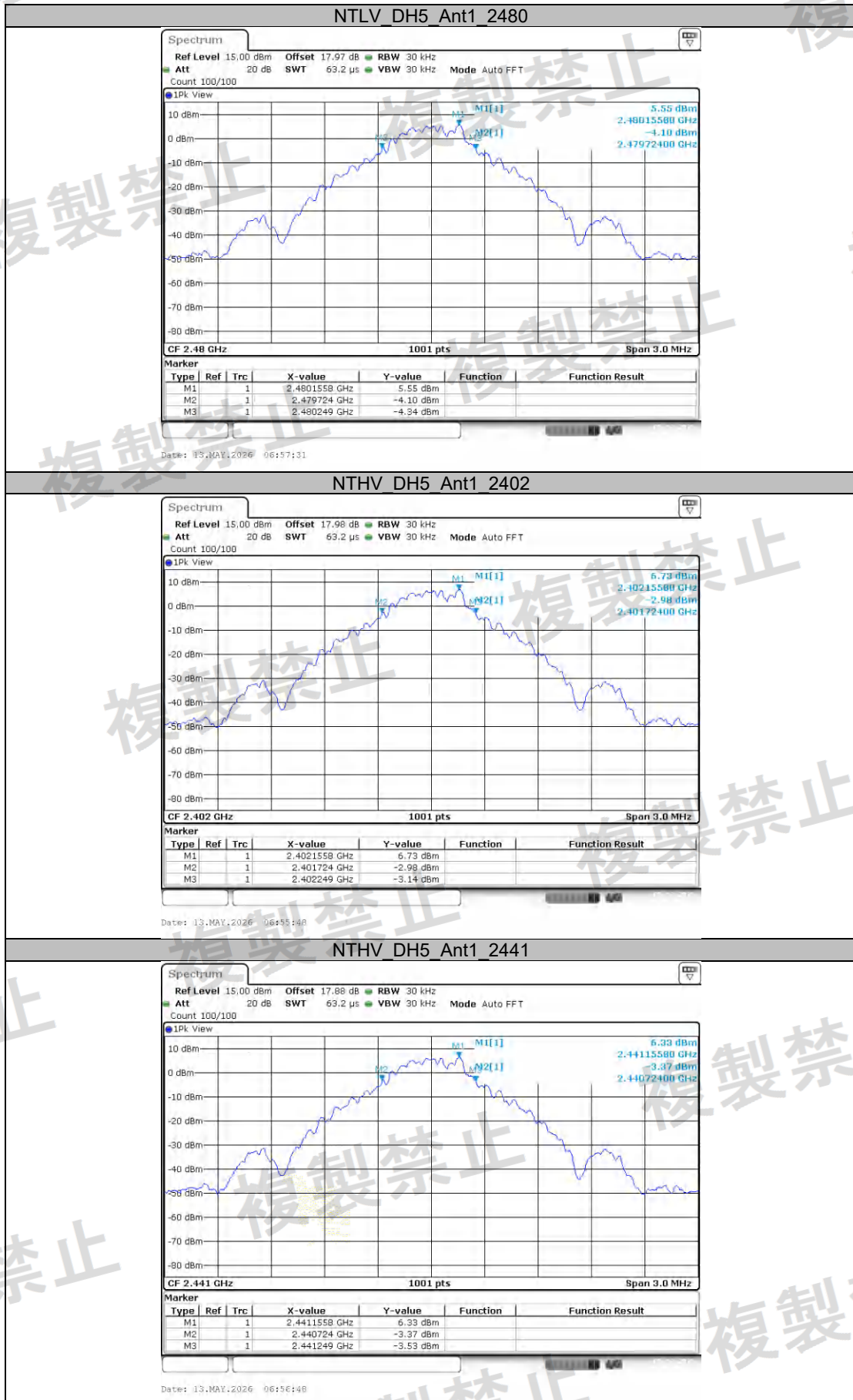
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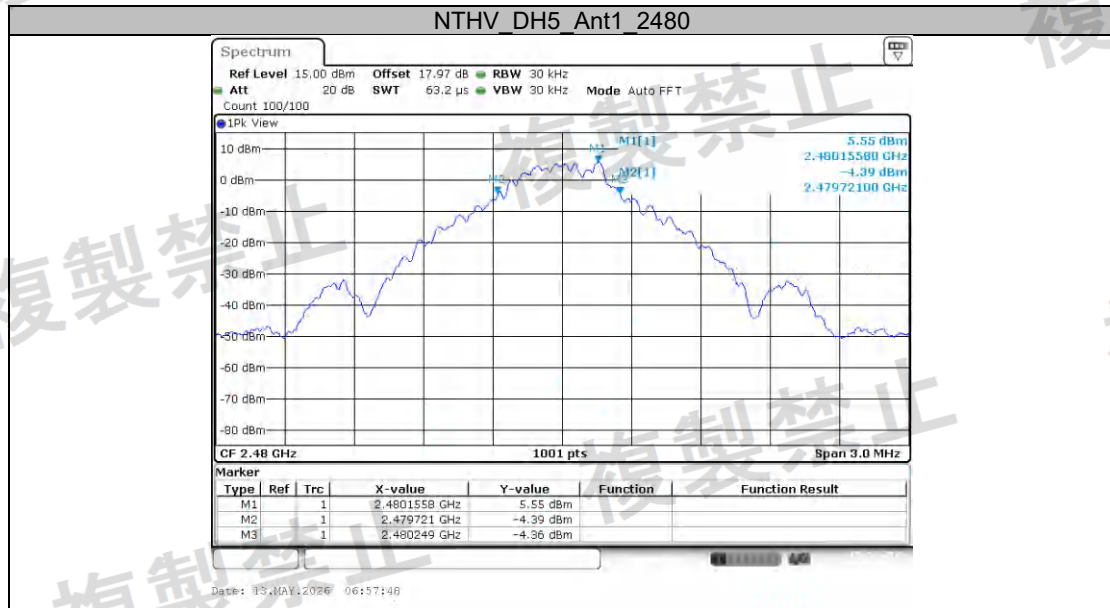


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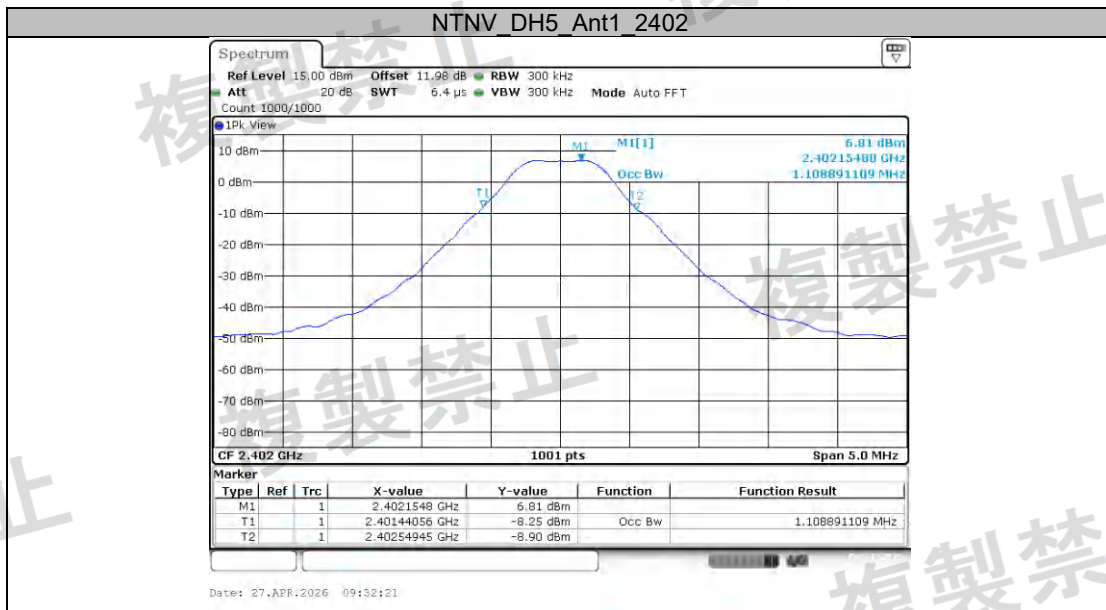


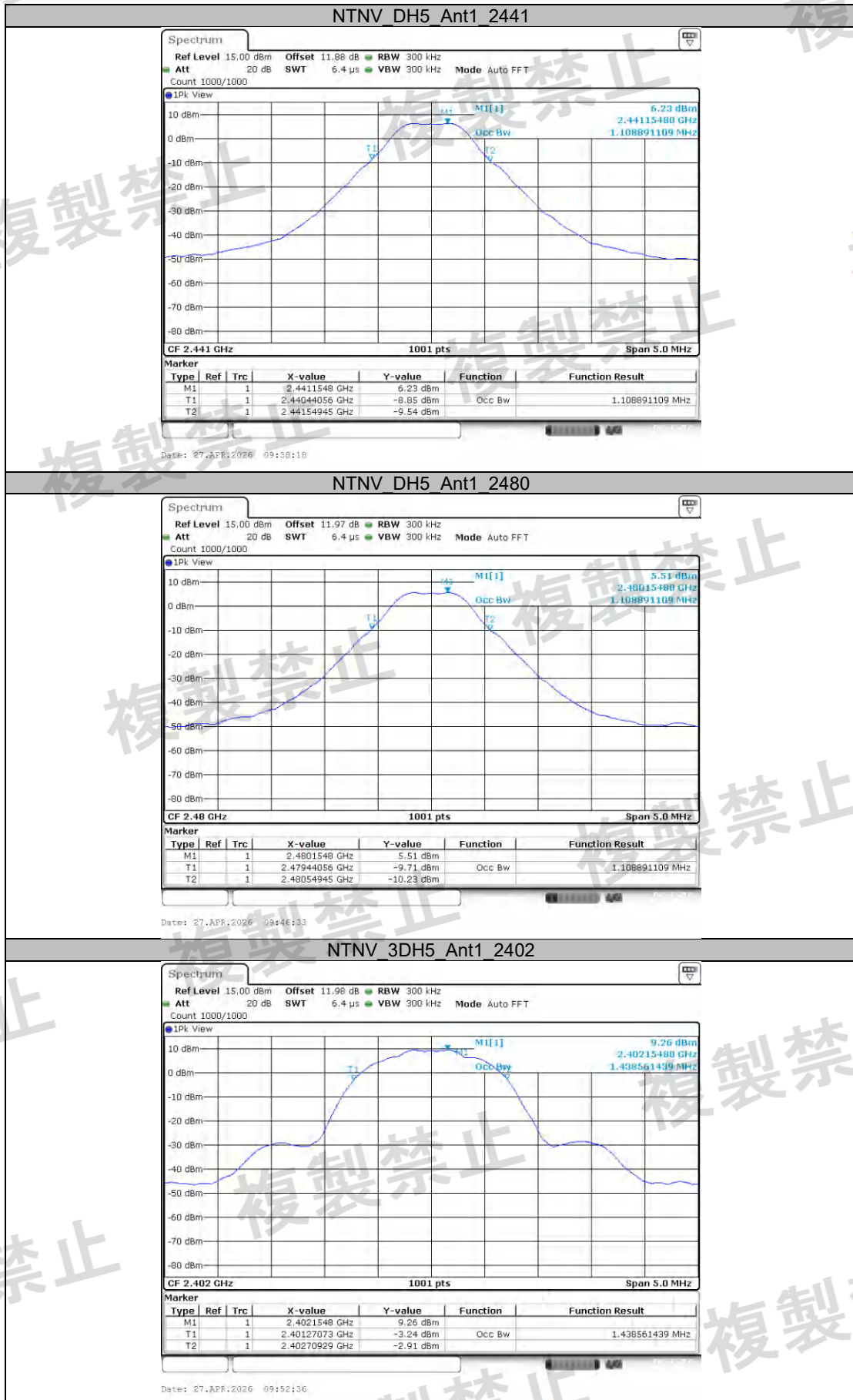


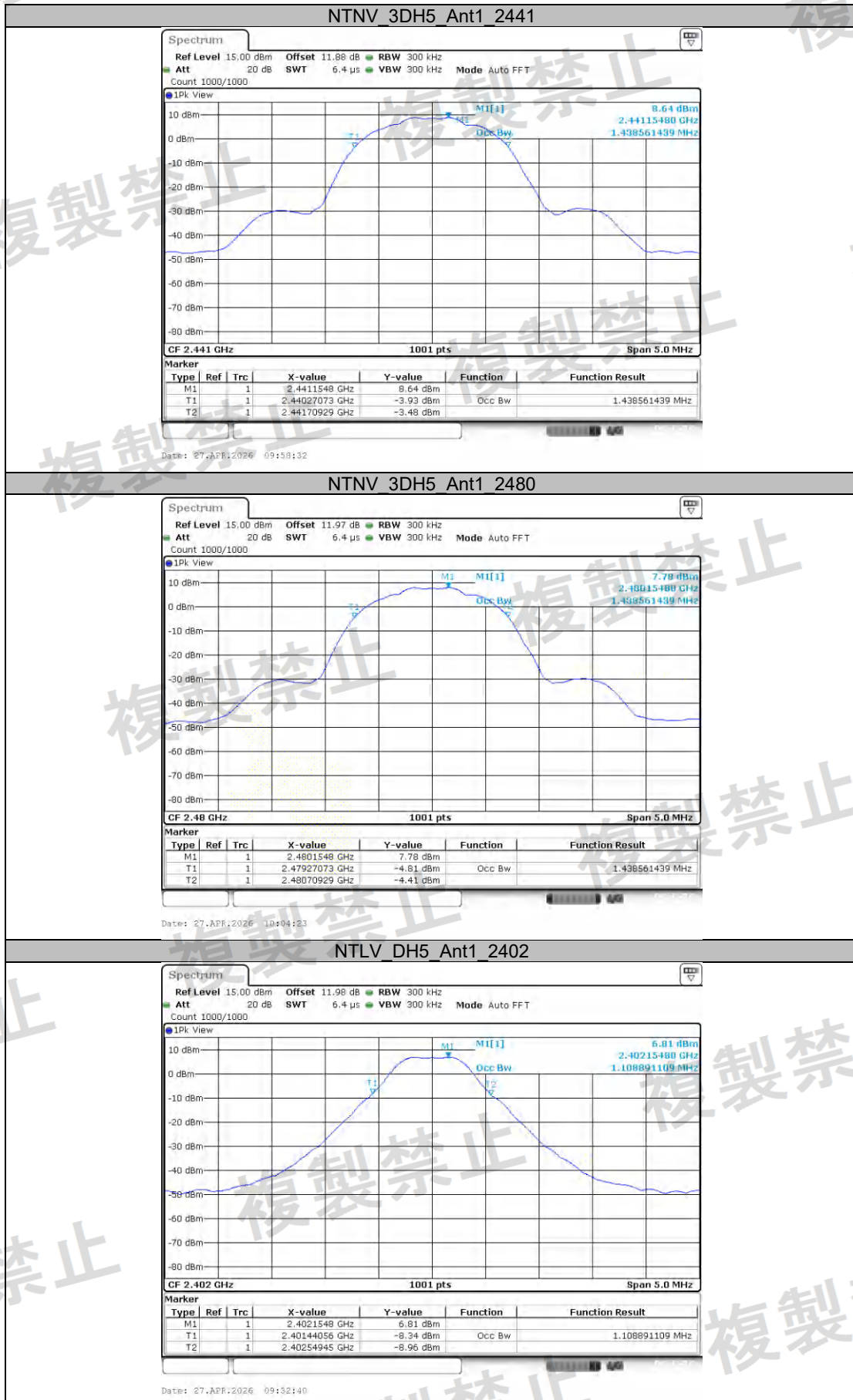


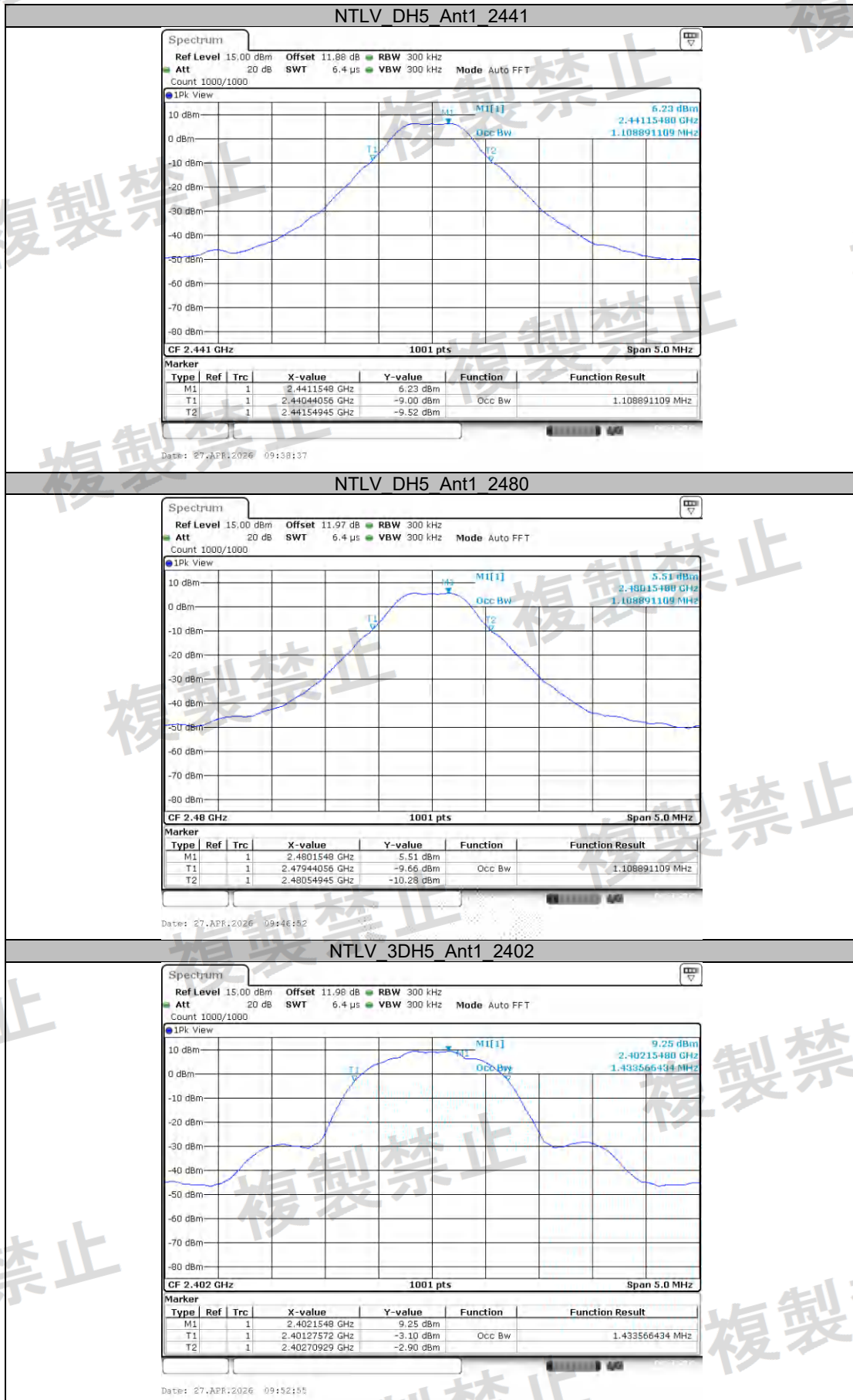
2 Appendix A.2 : OCCUPIED BANDWIDTH

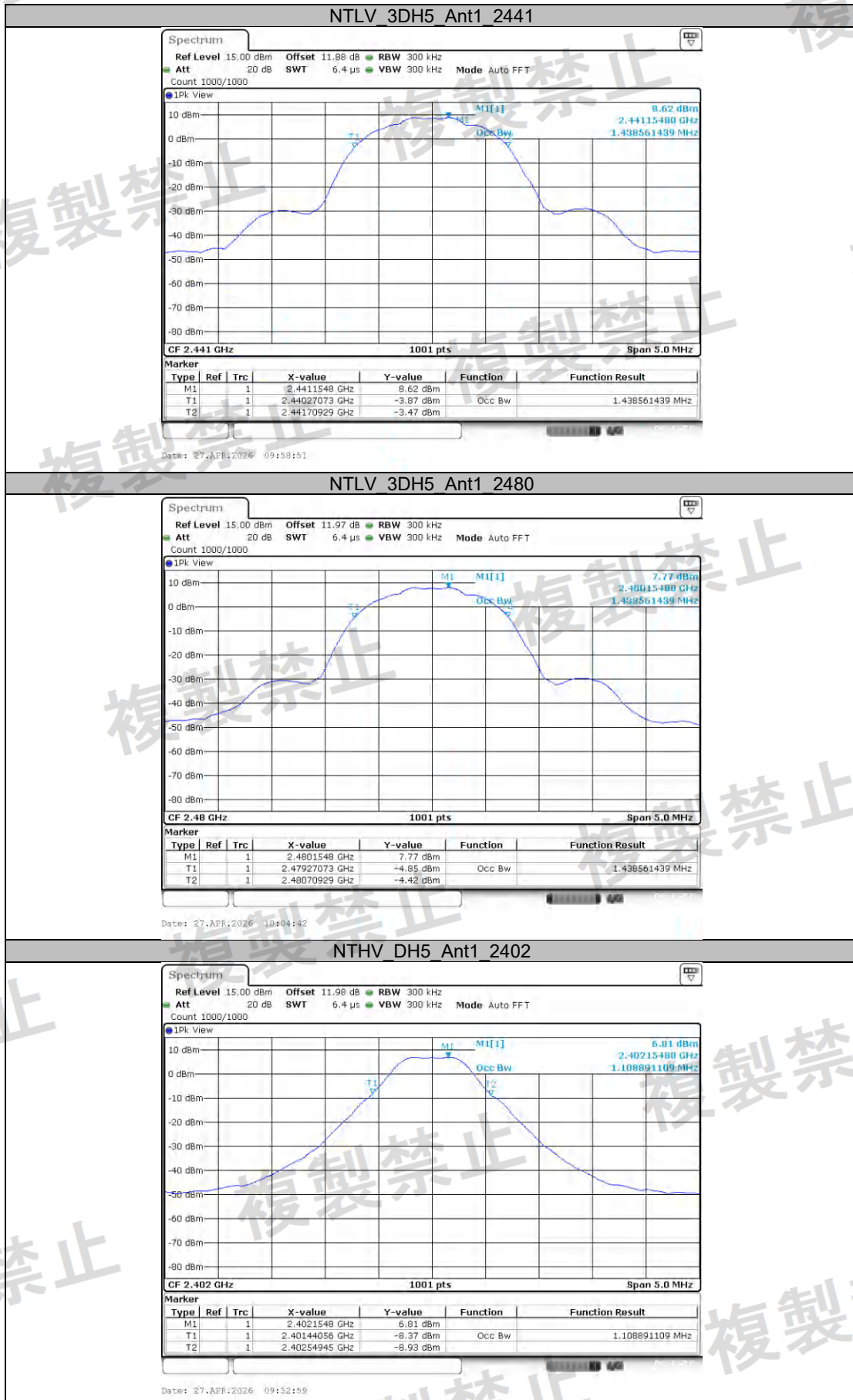
Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	2402	1.109	≤83.5	PASS
			2441	1.109	≤83.5	PASS
			2480	1.109	≤83.5	PASS
	3DH5	Ant1	2402	1.439	≤83.5	PASS
			2441	1.439	≤83.5	PASS
			2480	1.439	≤83.5	PASS
NTLV	DH5	Ant1	2402	1.109	≤83.5	PASS
			2441	1.109	≤83.5	PASS
			2480	1.109	≤83.5	PASS
	3DH5	Ant1	2402	1.434	≤83.5	PASS
			2441	1.439	≤83.5	PASS
			2480	1.439	≤83.5	PASS
NTHV	DH5	Ant1	2402	1.109	≤83.5	PASS
			2441	1.109	≤83.5	PASS
			2480	1.109	≤83.5	PASS
	3DH5	Ant1	2402	1.439	≤83.5	PASS
			2441	1.434	≤83.5	PASS
			2480	1.439	≤83.5	PASS

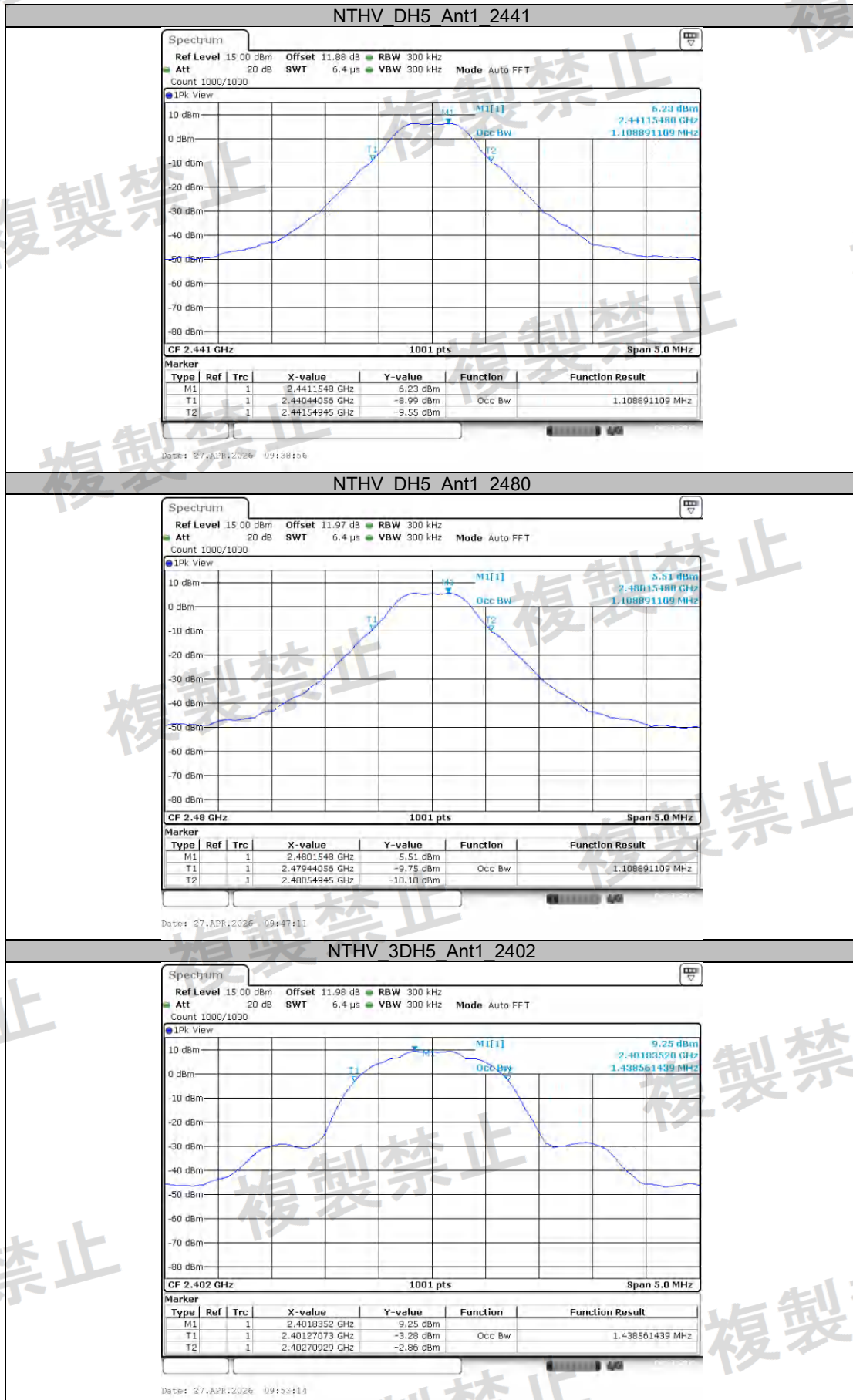


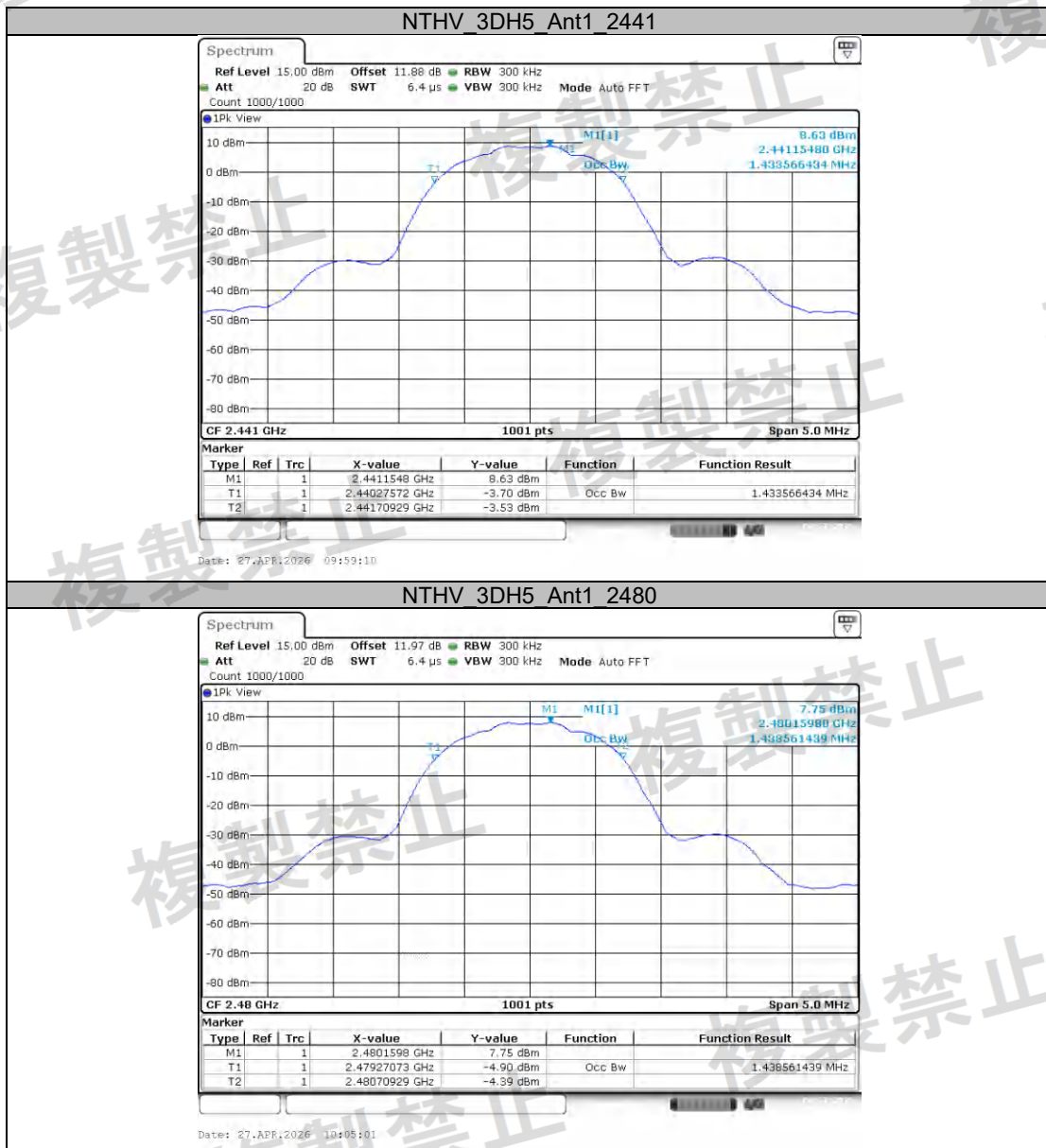




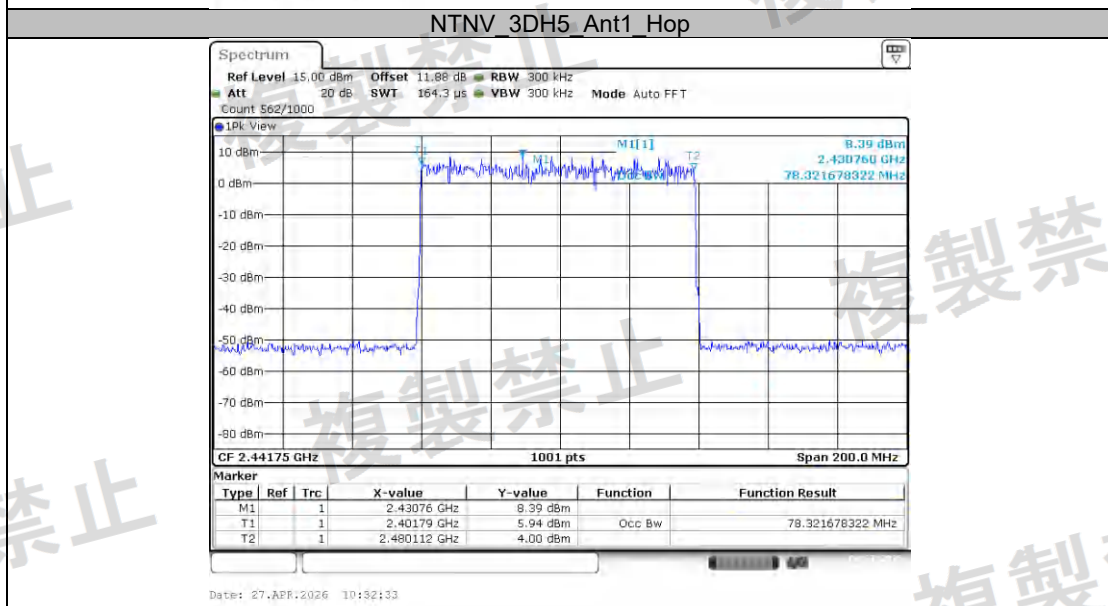
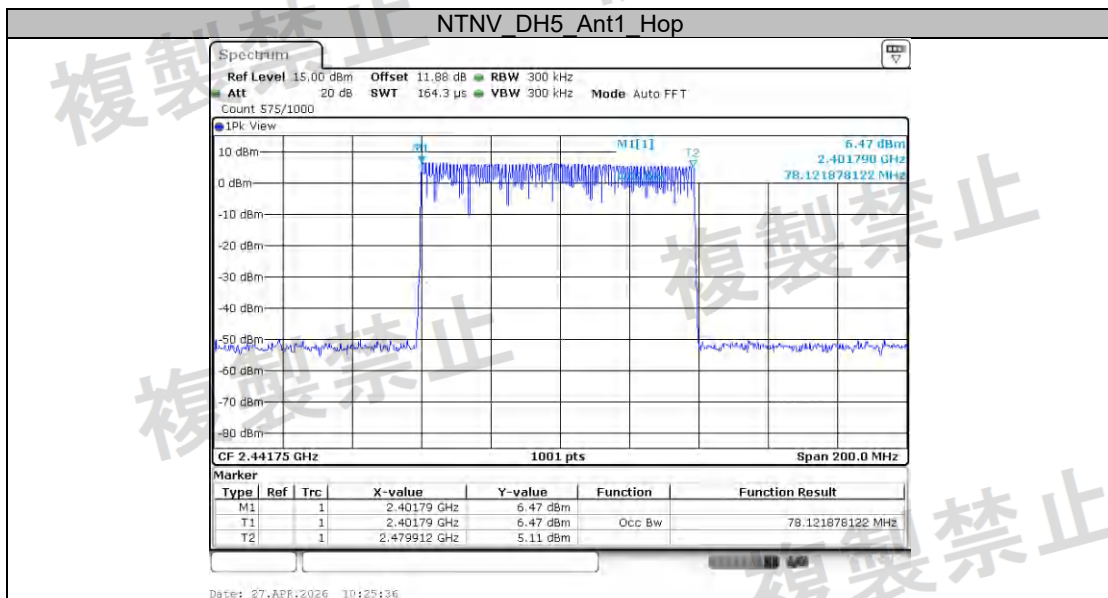


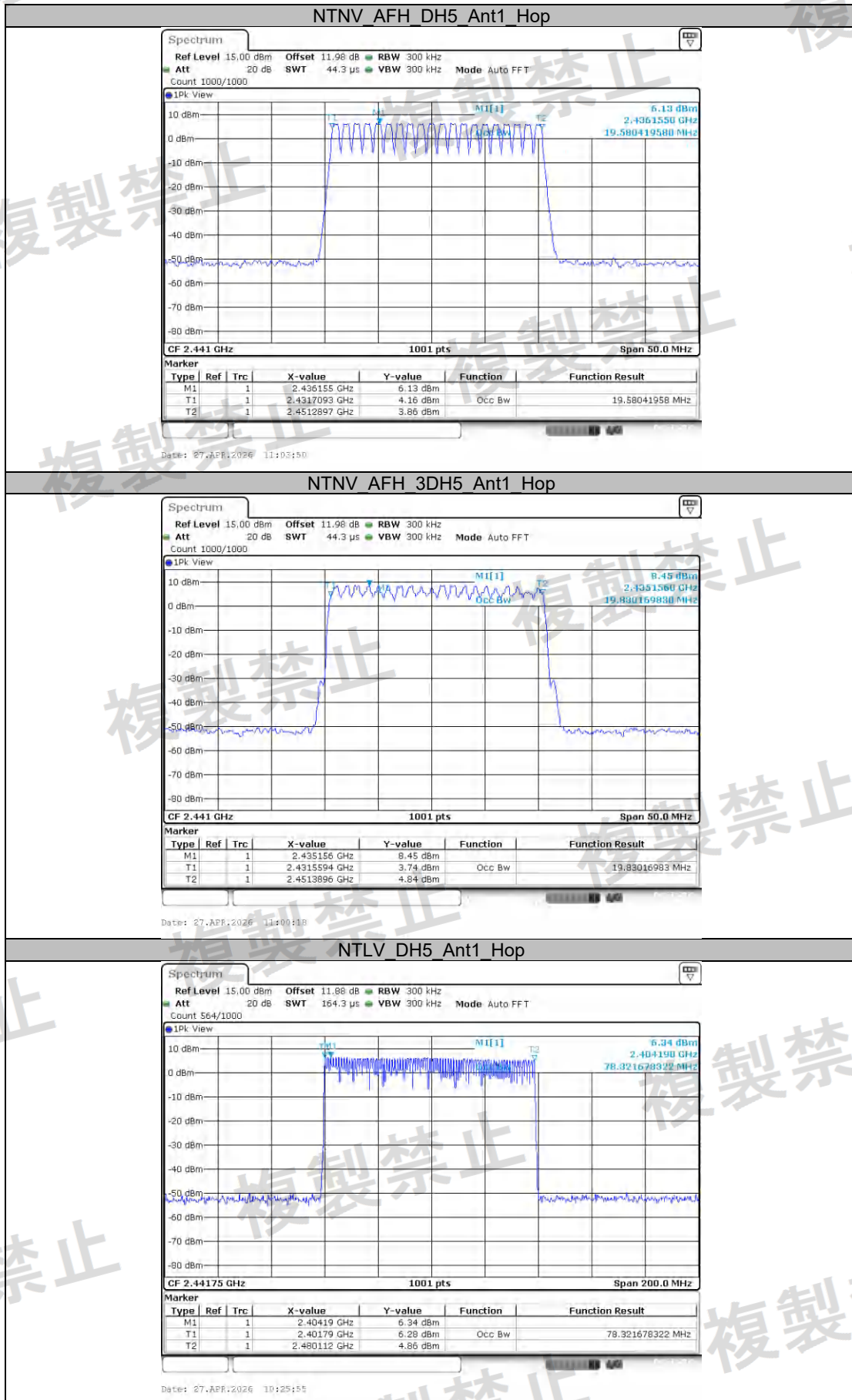






Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	3DH5	Ant1	Hop	78.322	≤83.5	PASS
	AFH_DH5	Ant1	Hop	19.580	≤83.5	PASS
	AFH_3DH5	Ant1	Hop	19.830	≤83.5	PASS
NTLV	DH5	Ant1	Hop	78.322	≤83.5	PASS
	3DH5	Ant1	Hop	78.122	≤83.5	PASS
	AFH_DH5	Ant1	Hop	19.580	≤83.5	PASS
	AFH_3DH5	Ant1	Hop	19.830	≤83.5	PASS
NTHV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	3DH5	Ant1	Hop	78.322	≤83.5	PASS
	AFH_DH5	Ant1	Hop	19.580	≤83.5	PASS
	AFH_3DH5	Ant1	Hop	19.830	≤83.5	PASS



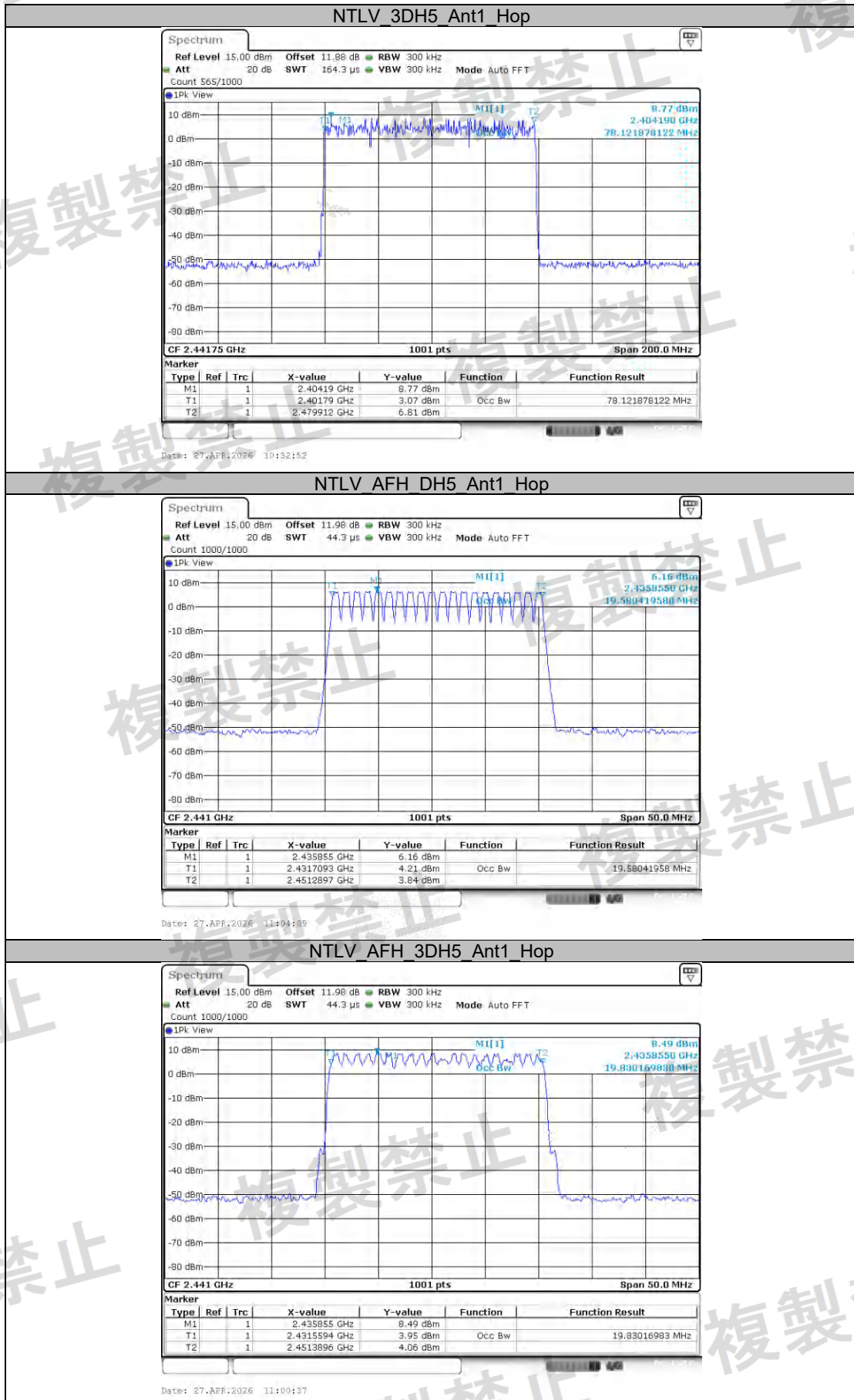


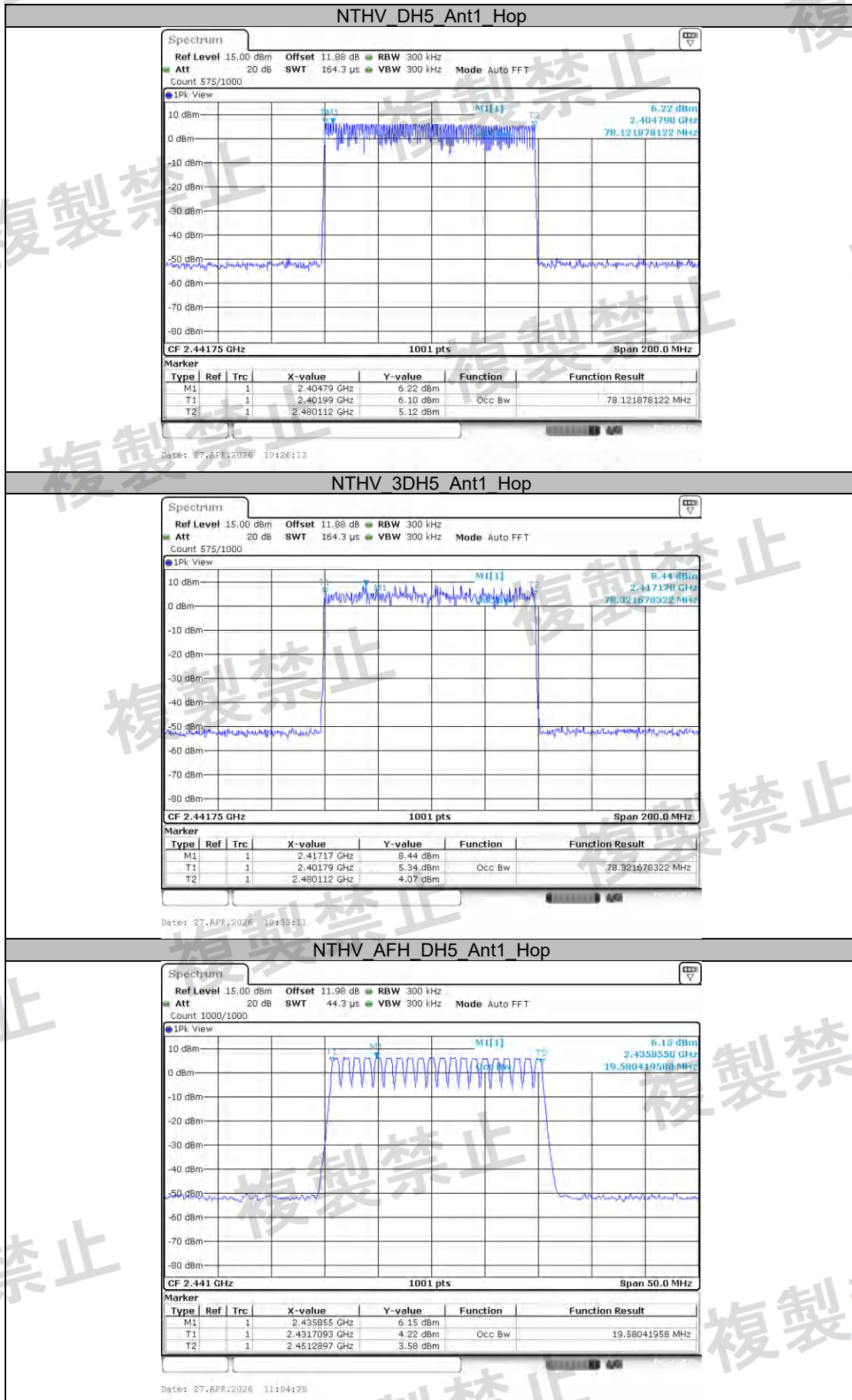
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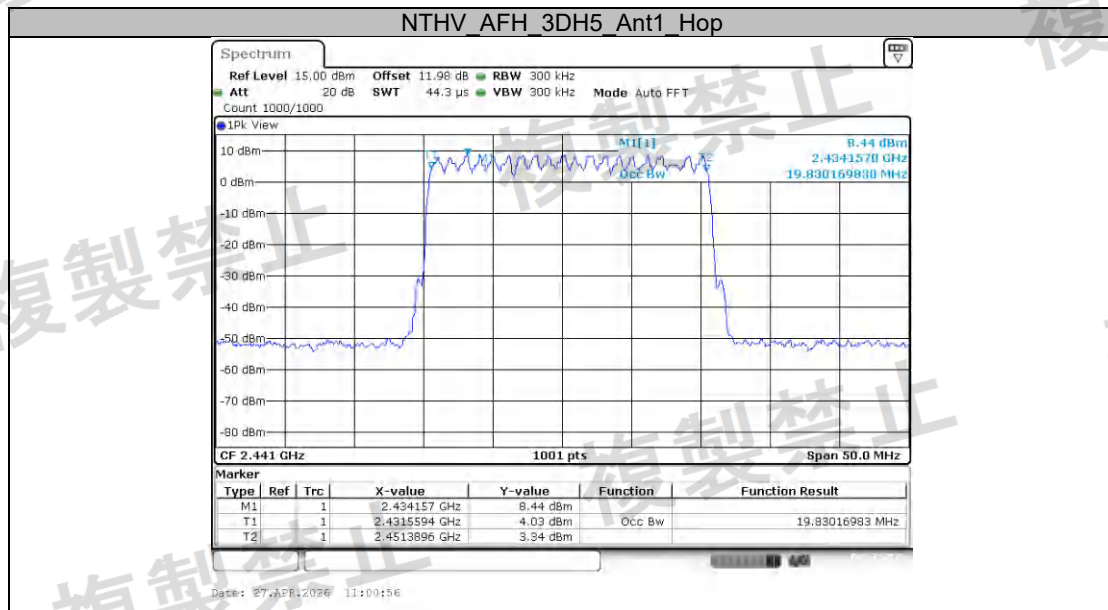


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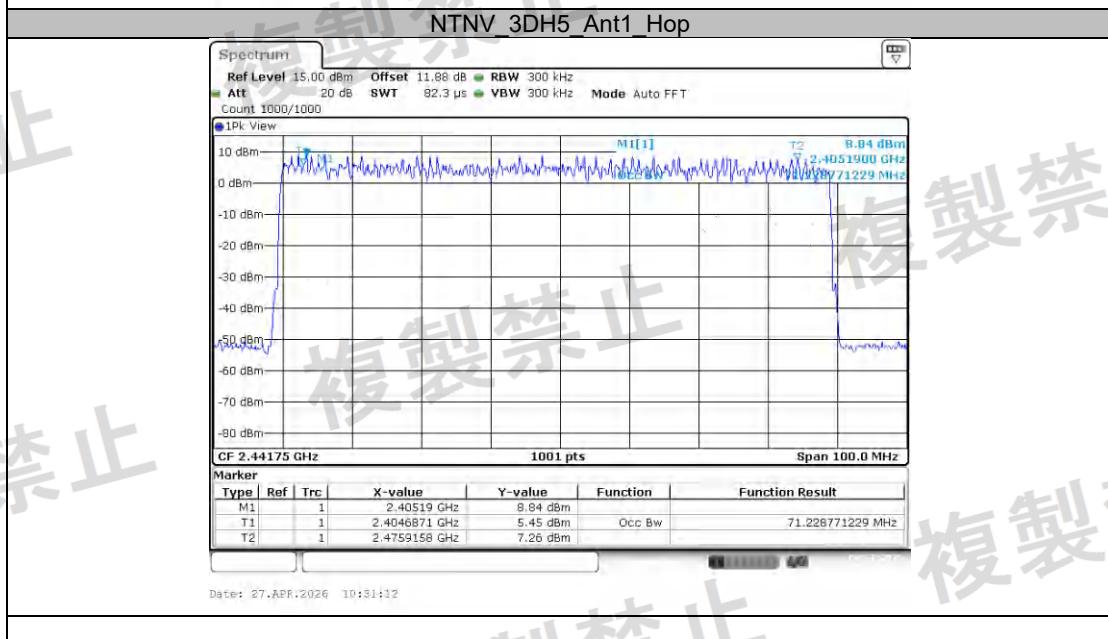
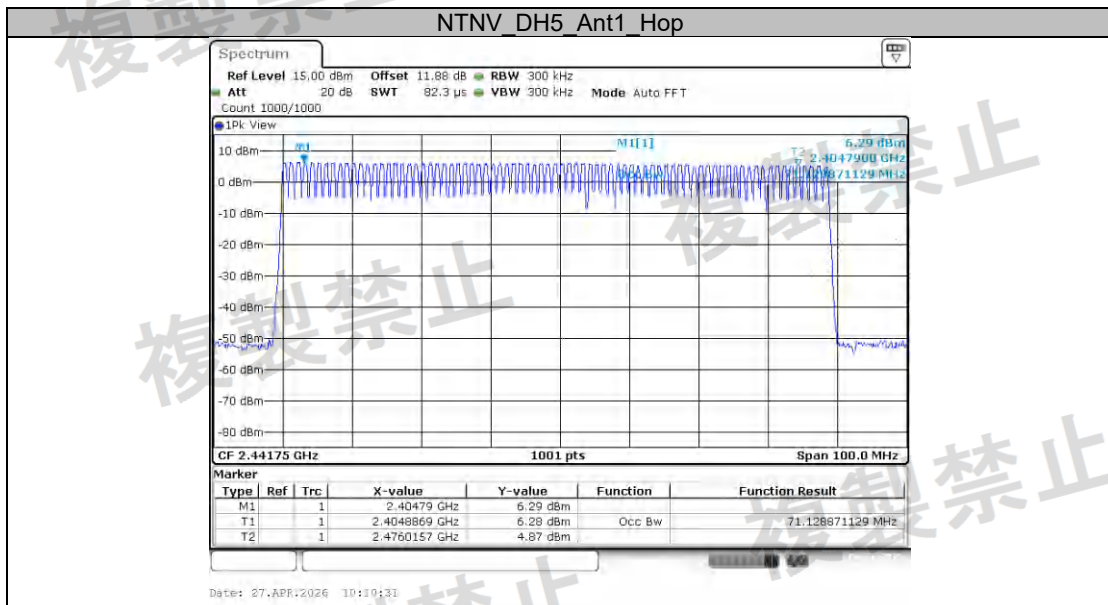






3 Appendix A.3 : SPREADING BANDWIDTH

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	DH5	Ant1	Hop	71.129	≥0.5	71.129	>5	PASS
	3DH5	Ant1	Hop	71.229	≥0.5	71.229	>5	PASS
	AFH_DH5	Ant1	Hop	17.982	≥0.5	17.982	>5	PASS
	AFH_3DH5	Ant1	Hop	18.282	≥0.5	18.282	>5	PASS
NTLV	DH5	Ant1	Hop	70.929	≥0.5	70.929	>5	PASS
	3DH5	Ant1	Hop	71.129	≥0.5	71.129	>5	PASS
	AFH_DH5	Ant1	Hop	17.782	≥0.5	17.782	>5	PASS
	AFH_3DH5	Ant1	Hop	18.382	≥0.5	18.382	>5	PASS
NTHV	DH5	Ant1	Hop	71.229	≥0.5	71.229	>5	PASS
	3DH5	Ant1	Hop	70.829	≥0.5	70.829	>5	PASS
	AFH_DH5	Ant1	Hop	17.882	≥0.5	17.882	>5	PASS
	AFH_3DH5	Ant1	Hop	18.082	≥0.5	18.082	>5	PASS

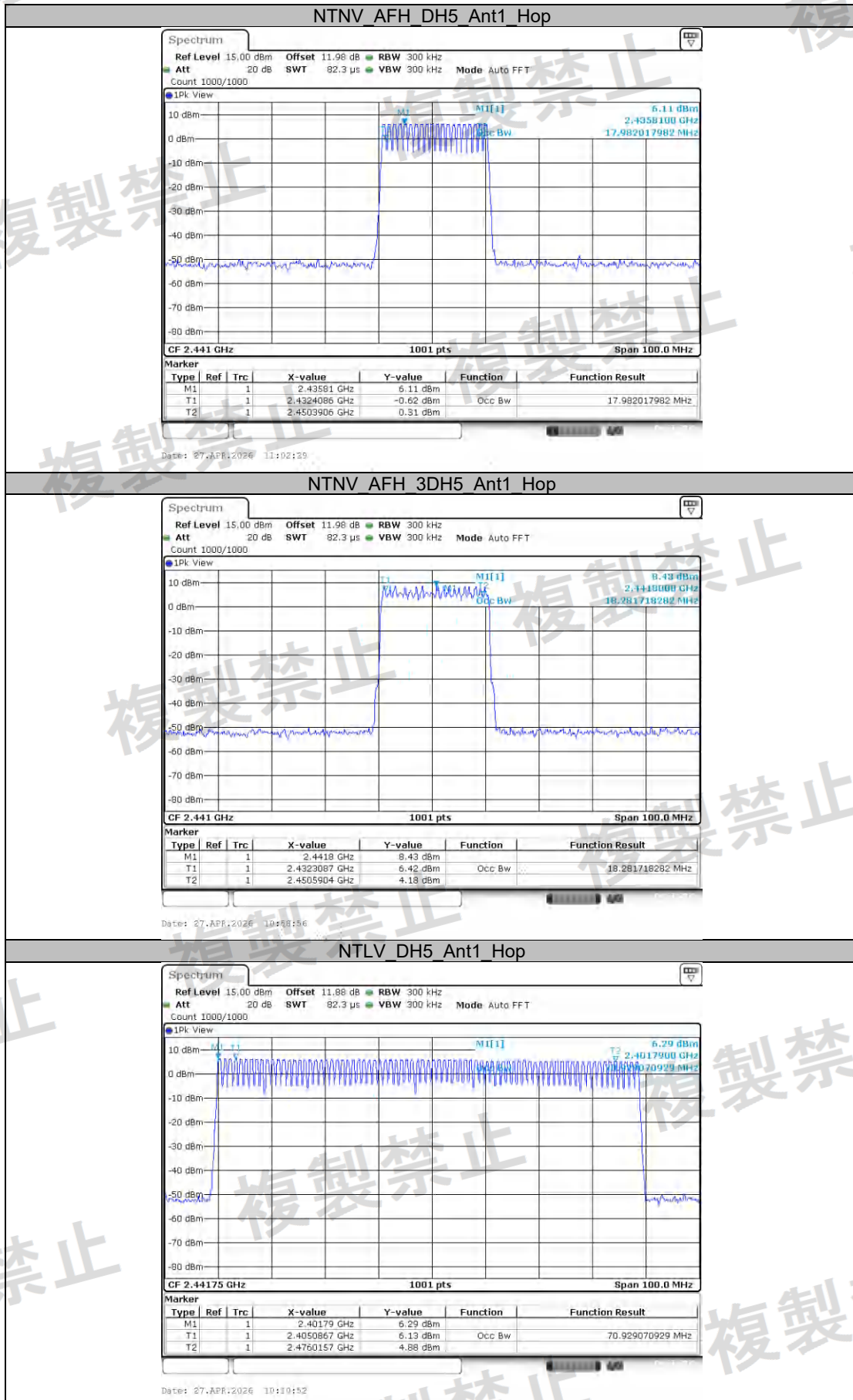


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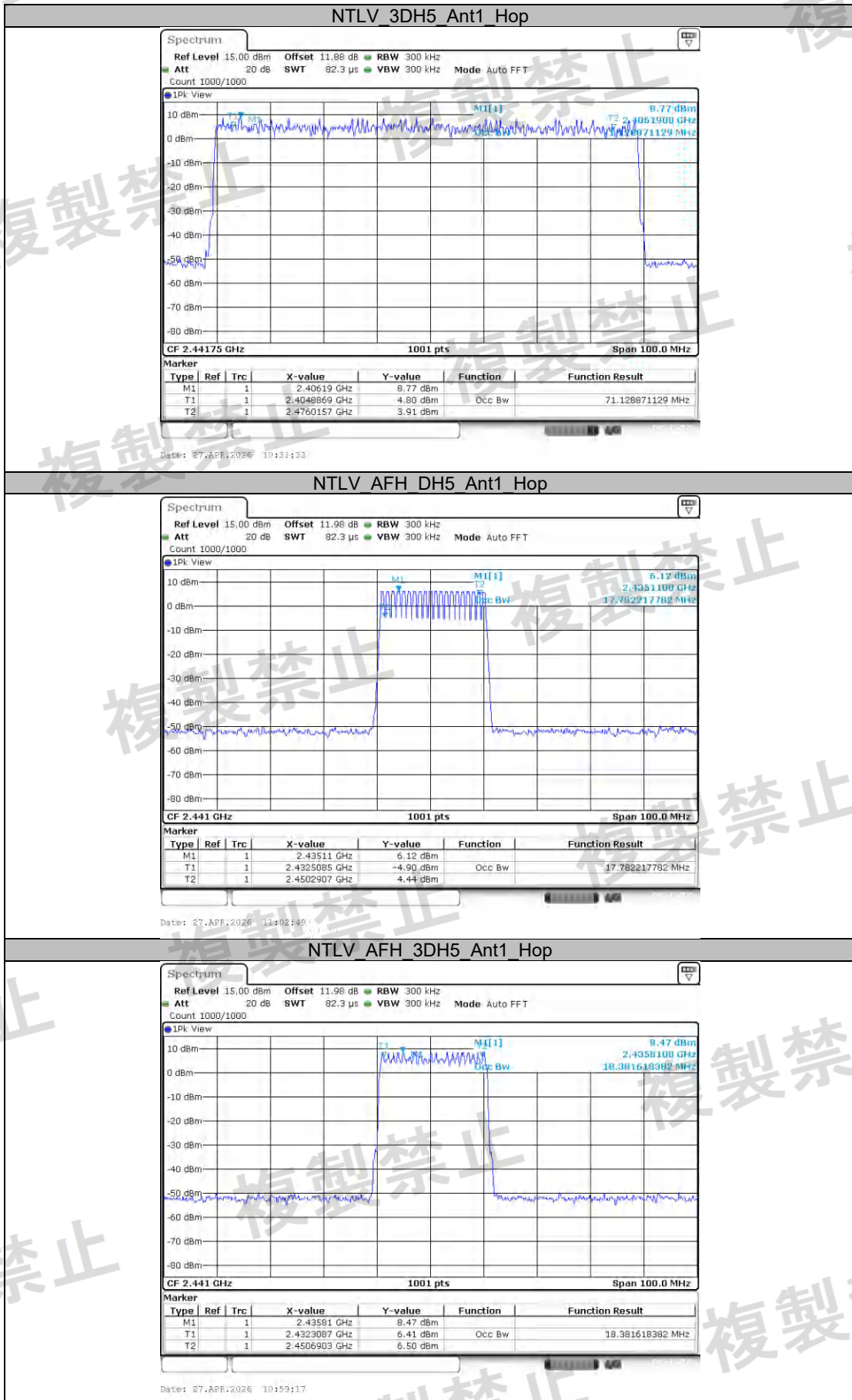


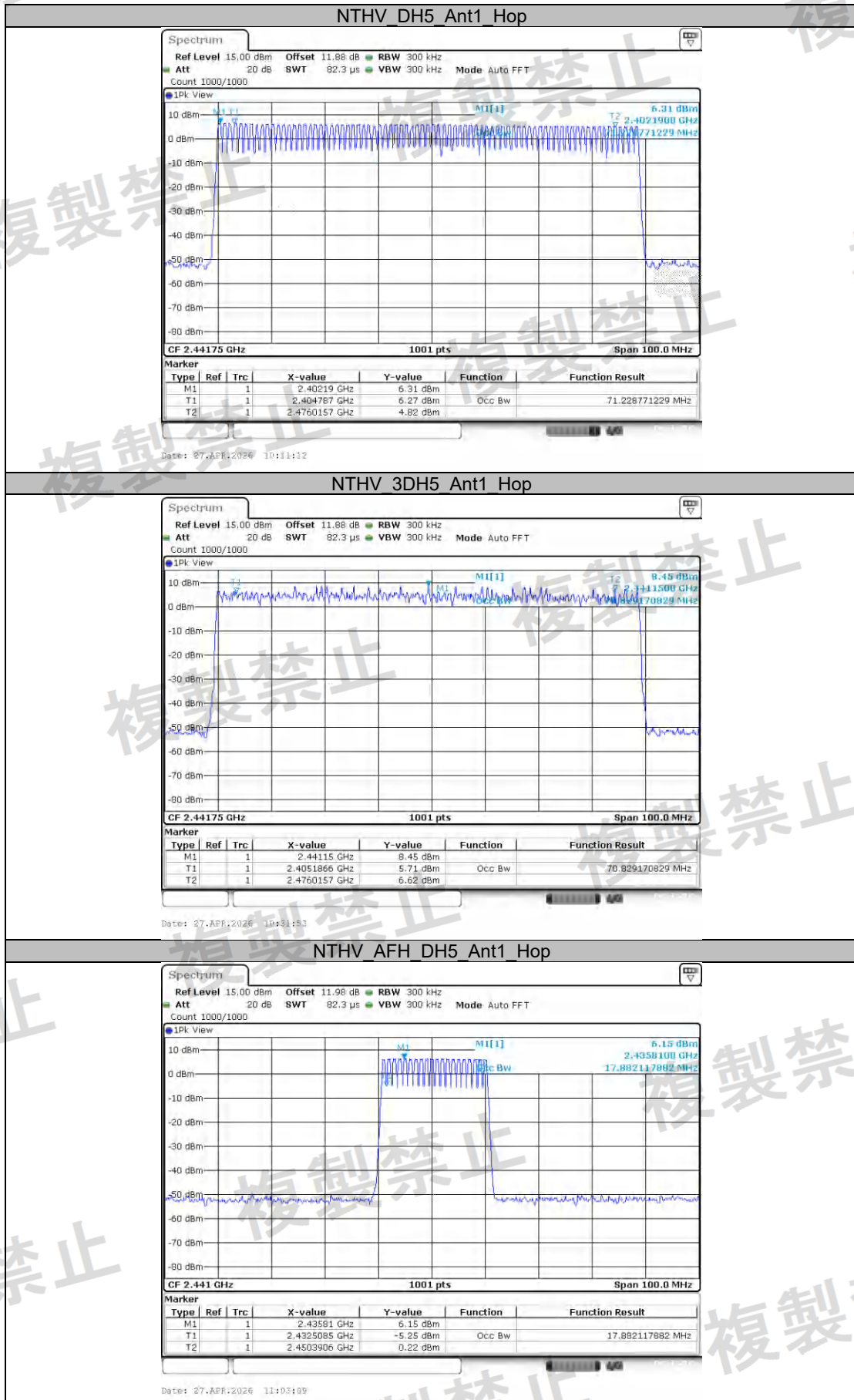
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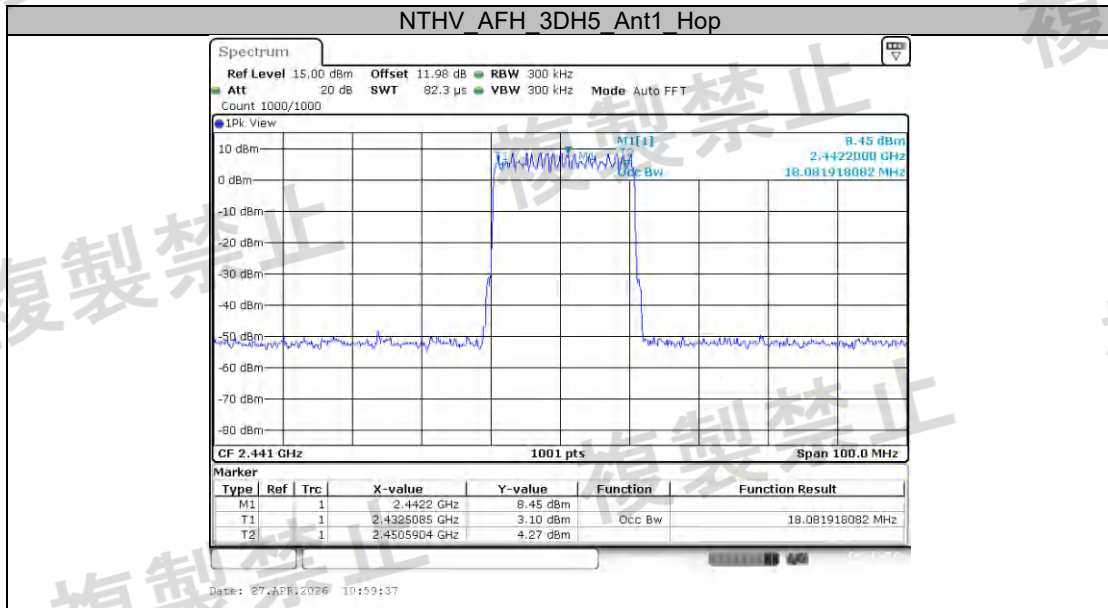


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4 Appendix A.4 : ANTENNA POWER

Antenna Power									
Test Condition	TestMode	Antenna	Freq (MHz)	Result (dBm)	Result (mW)	90% BW (MHz)	Result (mW /MHz)	Limit (mW /MHz)	Verdict
NTNV	DH5	Ant1	Hop	6.75	4.7315	71.129	0.0665	≤3	PASS
	3DH5	Ant1	Hop	7.55	5.6885	71.229	0.0799	≤3	PASS
	AFH_DH5	Ant1	Hop	7.06	5.0816	17.982	0.2826	≤3	PASS
	AFH_3DH5	Ant1	Hop	7.12	5.1523	18.282	0.2818	≤3	PASS
NTLV	DH5	Ant1	Hop	7.01	5.0234	70.929	0.0708	≤3	PASS
	3DH5	Ant1	Hop	7.45	5.5590	71.129	0.0782	≤3	PASS
	AFH_DH5	Ant1	Hop	7.15	5.1880	17.782	0.2918	≤3	PASS
	AFH_3DH5	Ant1	Hop	7.12	5.1523	18.382	0.2803	≤3	PASS
NTHV	DH5	Ant1	Hop	7.54	5.6754	71.229	0.0797	≤3	PASS
	3DH5	Ant1	Hop	7.03	5.0466	70.829	0.0713	≤3	PASS
	AFH_DH5	Ant1	Hop	7.13	5.1642	17.882	0.2888	≤3	PASS
	AFH_3DH5	Ant1	Hop	6.97	4.9774	18.082	0.2753	≤3	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW /MHz)	RatedPower (mW /MHz)	Result (%)	Limit (%)	Verdict
NTNV	DH5	Ant1	Hop	0.0665	0.20	-66.75	+20	PASS
	3DH5	Ant1	Hop	0.0799	0.20	-60.05	+20	PASS
	AFH_DH5	Ant1	Hop	0.2826	1.00	-71.74	+20	PASS
	AFH_3DH5	Ant1	Hop	0.2818	1.00	-71.82	+20	PASS
NTLV	DH5	Ant1	Hop	0.0708	0.20	-64.60	+20	PASS
	3DH5	Ant1	Hop	0.0782	0.20	-60.90	+20	PASS
	AFH_DH5	Ant1	Hop	0.2918	1.00	-70.82	+20	PASS
	AFH_3DH5	Ant1	Hop	0.2803	1.00	-71.97	+20	PASS
NTHV	DH5	Ant1	Hop	0.0797	0.20	-60.15	+20	PASS
	3DH5	Ant1	Hop	0.0713	0.20	-64.35	+20	PASS
	AFH_DH5	Ant1	Hop	0.2888	1.00	-71.12	+20	PASS
	AFH_3DH5	Ant1	Hop	0.2753	1.00	-72.47	+20	PASS

EIRP							
Test Condition	TestMode	Antenna	Freq (MHz)	Power (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	DH5	Ant1	Hop	-11.77	-6.61	≤6.91	PASS
	3DH5	Ant1	Hop	-10.98	-5.82	≤6.91	PASS
	AFH_DH5	Ant1	Hop	-5.49	-0.33	≤6.91	PASS
	AFH_3DH5	Ant1	Hop	-5.50	-0.34	≤6.91	PASS
NTLV	DH5	Ant1	Hop	-11.50	-6.34	≤6.91	PASS
	3DH5	Ant1	Hop	-11.07	-5.91	≤6.91	PASS
	AFH_DH5	Ant1	Hop	-5.35	-0.19	≤6.91	PASS
	AFH_3DH5	Ant1	Hop	-5.52	-0.36	≤6.91	PASS
NTHV	DH5	Ant1	Hop	-10.99	-5.83	≤6.91	PASS
	3DH5	Ant1	Hop	-11.47	-6.31	≤6.91	PASS
	AFH_DH5	Ant1	Hop	-5.39	-0.23	≤6.91	PASS
	AFH_3DH5	Ant1	Hop	-5.60	-0.44	≤6.91	PASS

5 Appendix A.5: SPURIOUS EMISSIONS FOR TRANSMITTER

Test Condition	Test Mode	Antenna	Freq (MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	DH5	Ant1	2402	30~500	479.67	-61.44	≤-26	0.00072	≤2.5	PASS
				500~1000	918.25	-60.77	≤-26	0.00084	≤2.5	PASS
				1000~2387	1536.42	-50.18	≤-26	0.00959	≤2.5	PASS
				2387~2400	2400.00	-29.46	≤-16	1.13240	≤25	PASS
				2483.5~2496.5	2486.74	-49.36	≤-16	0.01159	≤25	PASS
				2496.5~13000	7205.74	-53.80	≤-26	0.00417	≤2.5	PASS
			2441	30~500	474.15	-61.31	≤-26	0.00074	≤2.5	PASS
				500~1000	870.38	-60.91	≤-26	0.00081	≤2.5	PASS
				1000~2387	2184.84	-50.63	≤-26	0.00865	≤2.5	PASS
				2387~2400	2399.48	-49.68	≤-16	0.01076	≤25	PASS
				2483.5~2496.5	2493.86	-48.74	≤-16	0.01337	≤25	PASS
				2496.5~13000	7322.86	-53.83	≤-26	0.00414	≤2.5	PASS
			2480	30~500	448.42	-61.56	≤-26	0.00070	≤2.5	PASS
				500~1000	891.00	-60.62	≤-26	0.00087	≤2.5	PASS
				1000~2387	2353.71	-50.61	≤-26	0.00869	≤2.5	PASS
				2387~2400	2396.06	-49.85	≤-16	0.01035	≤25	PASS
				2483.5~2496.5	2484.66	-48.71	≤-16	0.01346	≤25	PASS
				2496.5~13000	7439.97	-52.10	≤-26	0.00617	≤2.5	PASS
	3DH5	Ant1	2402	30~500	435.61	-60.73	≤-26	0.00085	≤2.5	PASS
				500~1000	886.13	-60.66	≤-26	0.00086	≤2.5	PASS
				1000~2387	2052.73	-50.76	≤-26	0.00839	≤2.5	PASS
				2387~2400	2399.99	-20.66	≤-16	8.59014	≤25	PASS
				2483.5~2496.5	2488.80	-49.64	≤-16	0.01086	≤25	PASS
				2496.5~13000	7205.74	-51.19	≤-26	0.00760	≤2.5	PASS
			2441	30~500	377.45	-62.28	≤-26	0.00059	≤2.5	PASS
				500~1000	704.25	-56.32	≤-26	0.00233	≤2.5	PASS
				1000~2387	2377.64	-50.16	≤-26	0.00964	≤2.5	PASS
				2387~2400	2389.02	-49.05	≤-16	0.01245	≤25	PASS
				2483.5~2496.5	2491.11	-49.29	≤-16	0.01178	≤25	PASS
				2496.5~13000	7322.86	-50.97	≤-26	0.00800	≤2.5	PASS
			2480	30~500	195.79	-61.55	≤-26	0.00070	≤2.5	PASS
				500~1000	704.13	-55.19	≤-26	0.00303	≤2.5	PASS
				1000~2387	2109.25	-50.26	≤-26	0.00942	≤2.5	PASS
				2387~2400	2389.09	-49.77	≤-16	0.01054	≤25	PASS
				2483.5~2496.5	2490.12	-40.09	≤-16	0.09795	≤25	PASS
				2496.5~13000	7440.50	-48.96	≤-26	0.01271	≤2.5	PASS
NTLV	DH5	Ant1	2402	30~500	227.05	-61.14	≤-26	0.00077	≤2.5	PASS
				500~1000	988.13	-60.53	≤-26	0.00089	≤2.5	PASS
				1000~2387	2290.95	-50.67	≤-26	0.00857	≤2.5	PASS
				2387~2400	2400.00	-29.43	≤-16	1.14025	≤25	PASS
				2483.5~2496.5	2483.79	-49.18	≤-16	0.01208	≤25	PASS
				2496.5~13000	7206.27	-53.61	≤-26	0.00436	≤2.5	PASS
			2441	30~500	488.96	-61.72	≤-26	0.00067	≤2.5	PASS
				500~1000	931.13	-60.19	≤-26	0.00096	≤2.5	PASS
				1000~2387	2281.59	-50.79	≤-26	0.00834	≤2.5	PASS
				2387~2400	2390.82	-49.33	≤-16	0.01167	≤25	PASS
				2483.5~2496.5	2487.53	-49.26	≤-16	0.01186	≤25	PASS
				2496.5~13000	3513.24	-46.89	≤-26	0.02046	≤2.5	PASS
			2480	30~500	477.79	-61.87	≤-26	0.00065	≤2.5	PASS
				500~1000	831.75	-60.73	≤-26	0.00085	≤2.5	PASS
				1000~2387	1105.07	-50.79	≤-26	0.00834	≤2.5	PASS
				2387~2400	2393.86	-49.95	≤-16	0.01012	≤25	PASS
				2483.5~2496.5	2484.08	-48.72	≤-16	0.01343	≤25	PASS
				2496.5~13000	7439.97	-51.43	≤-26	0.00719	≤2.5	PASS
	3DH5	Ant1	2402	30~500	475.68	-61.73	≤-26	0.00067	≤2.5	PASS

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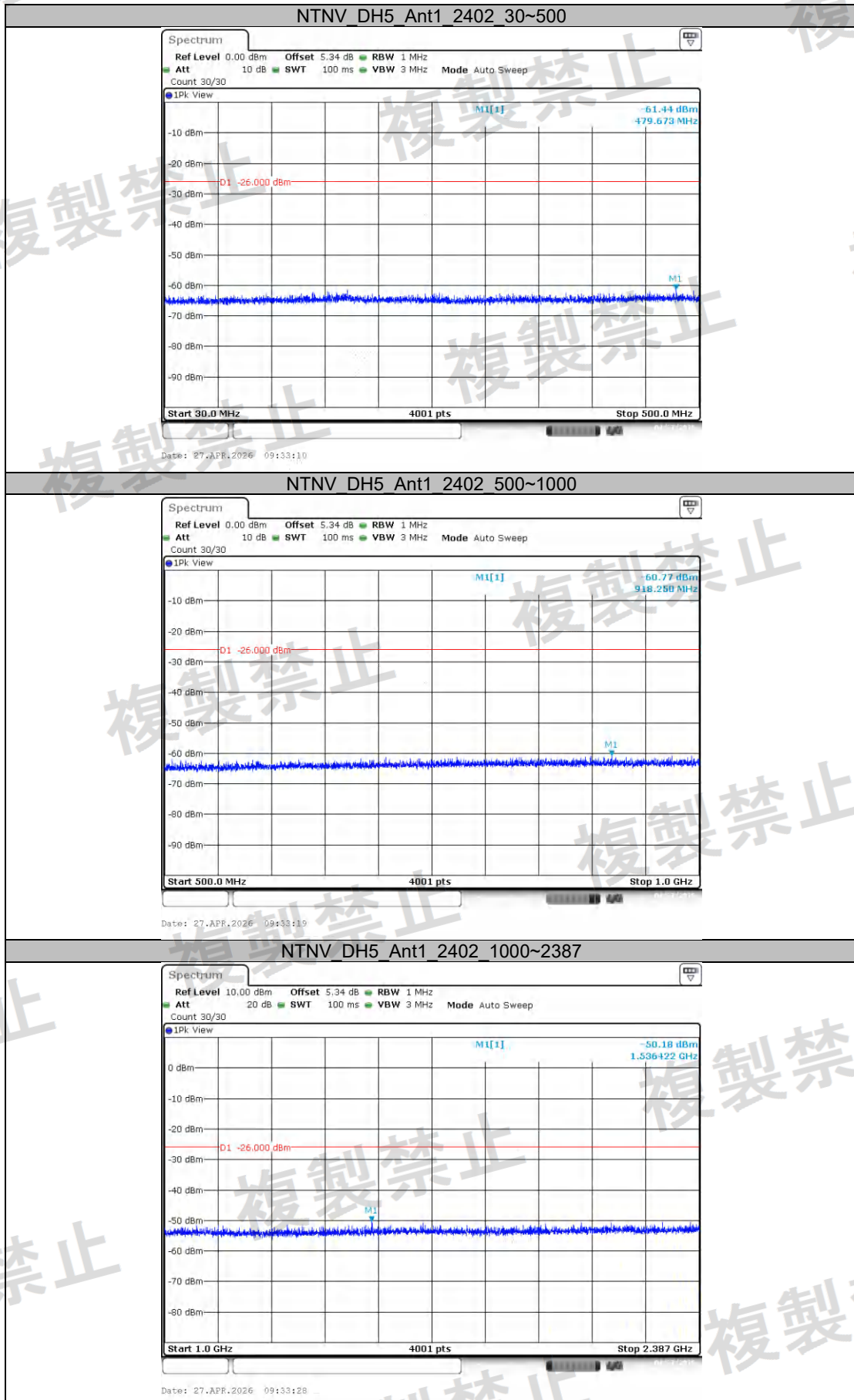


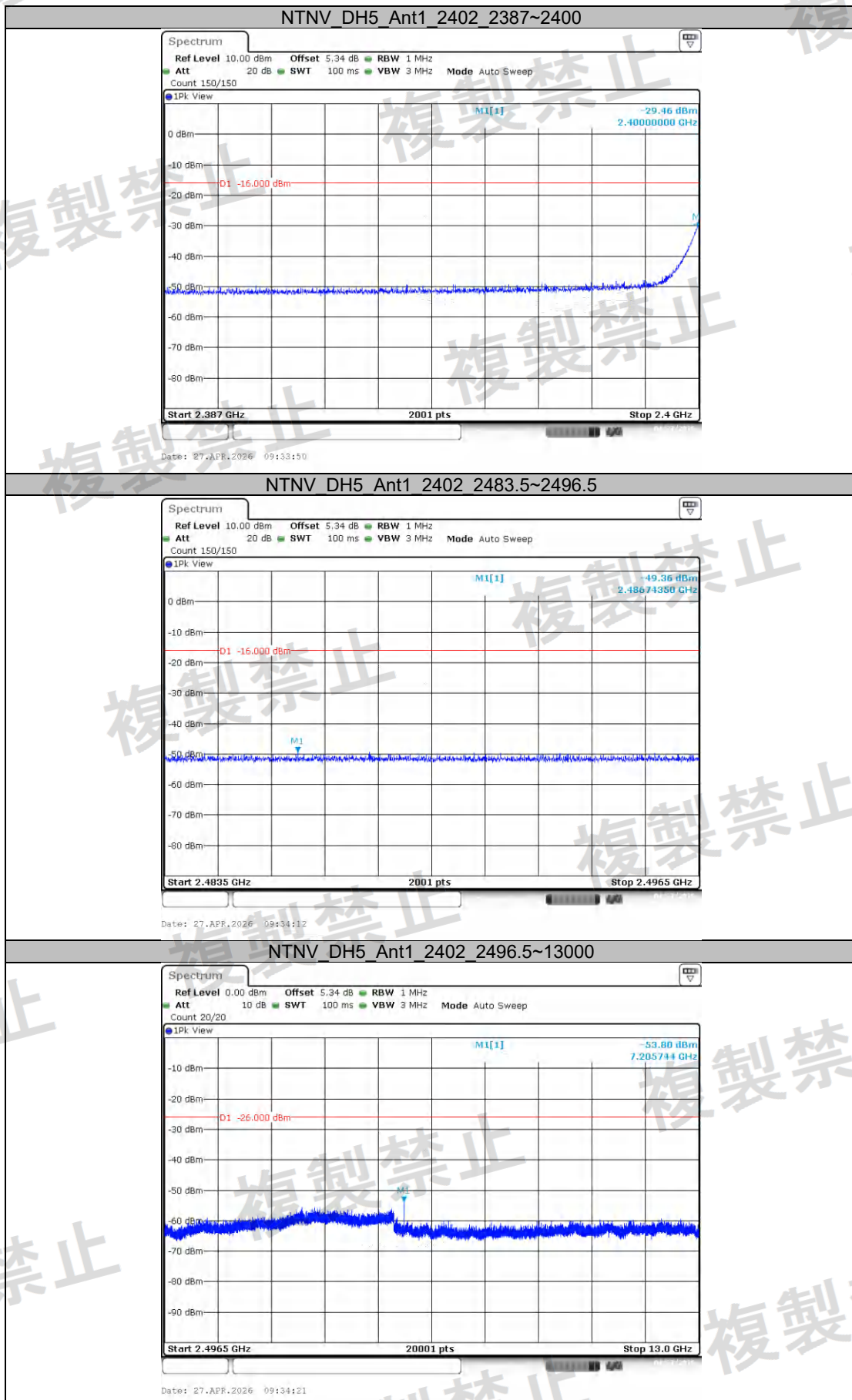
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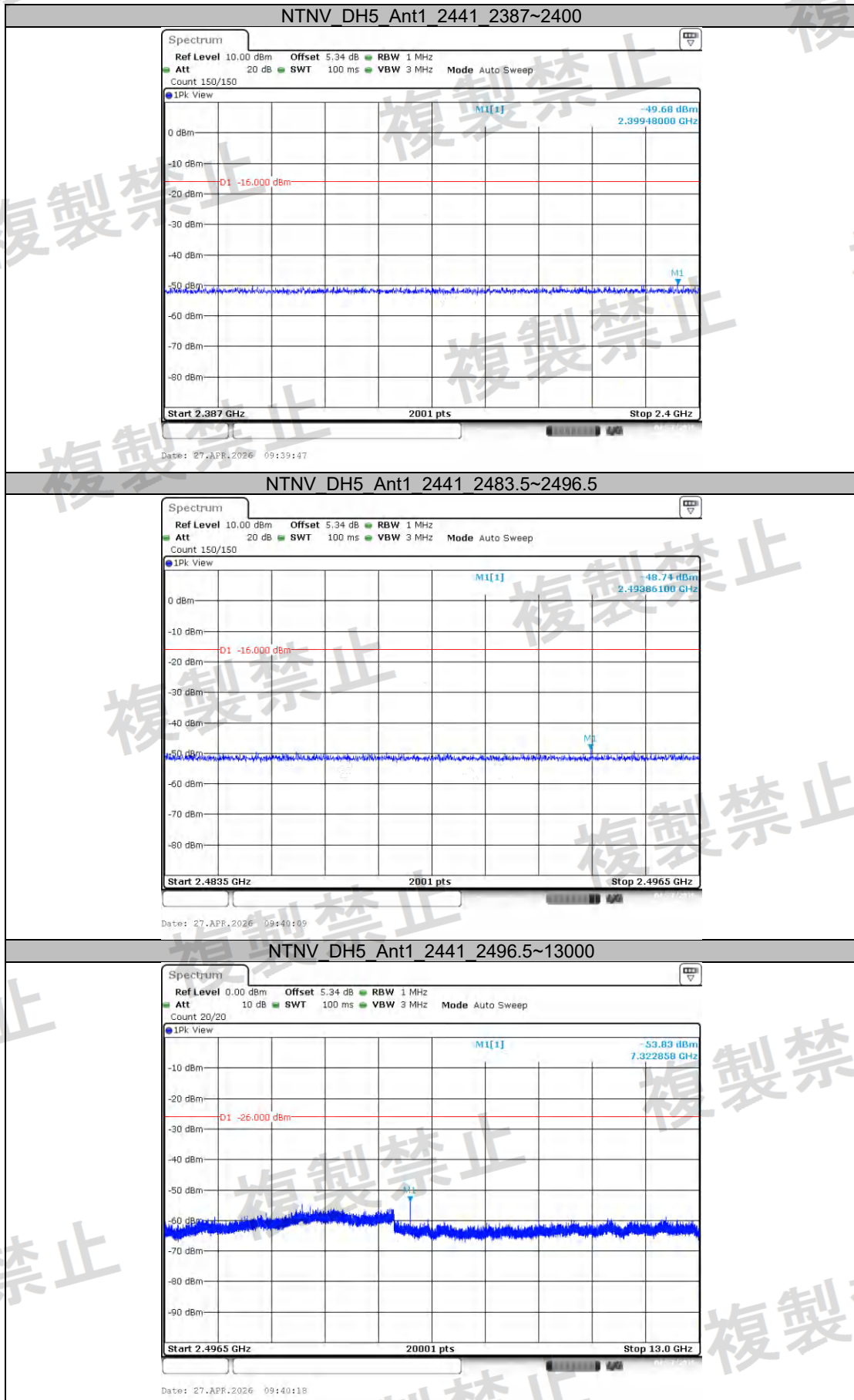
				500~1000	968.50	-60.64	≤-26	0.00086	≤2.5	PASS
				1000~2387	2065.91	-50.17	≤-26	0.00962	≤2.5	PASS
				2387~2400	2400.00	-20.68	≤-16	8.55067	≤25	PASS
				2483.5~2496.5	2493.73	-49.47	≤-16	0.01130	≤25	PASS
			2441	2496.5~13000	7205.74	-51.05	≤-26	0.00785	≤2.5	PASS
				30~500	339.26	-61.73	≤-26	0.00067	≤2.5	PASS
				500~1000	704.00	-54.36	≤-26	0.00366	≤2.5	PASS
				1000~2387	2296.15	-50.69	≤-26	0.00853	≤2.5	PASS
				2387~2400	2397.11	-49.80	≤-16	0.01047	≤25	PASS
				2483.5~2496.5	2496.46	-49.09	≤-16	0.01233	≤25	PASS
				2496.5~13000	7323.38	-50.84	≤-26	0.00824	≤2.5	PASS
			2480	30~500	468.04	-61.65	≤-26	0.00068	≤2.5	PASS
				500~1000	712.13	-57.90	≤-26	0.00162	≤2.5	PASS
				1000~2387	2154.68	-50.02	≤-26	0.00995	≤2.5	PASS
				2387~2400	2393.75	-49.76	≤-16	0.01057	≤25	PASS
				2483.5~2496.5	2483.60	-48.09	≤-16	0.01552	≤25	PASS
				2496.5~13000	7440.50	-50.62	≤-26	0.00867	≤2.5	PASS

NTHV	DH5	Ant1	2402	30~500	189.10	-61.37	≤-26	0.00073	≤2.5	PASS
				500~1000	968.75	-59.74	≤-26	0.00106	≤2.5	PASS
				1000~2387	2184.84	-50.10	≤-26	0.00977	≤2.5	PASS
				2387~2400	2400.00	-29.31	≤-16	1.17220	≤25	PASS
				2483.5~2496.5	2496.05	-48.72	≤-16	0.01343	≤25	PASS
				2496.5~13000	7206.27	-53.17	≤-26	0.00482	≤2.5	PASS
			2441	30~500	454.41	-61.76	≤-26	0.00067	≤2.5	PASS
				500~1000	904.13	-60.30	≤-26	0.00093	≤2.5	PASS
				1000~2387	2097.12	-50.47	≤-26	0.00897	≤2.5	PASS
				2387~2400	2396.26	-49.82	≤-16	0.01042	≤25	PASS
				2483.5~2496.5	2485.75	-48.73	≤-16	0.01340	≤25	PASS
				2496.5~13000	7322.86	-52.75	≤-26	0.00531	≤2.5	PASS
			2480	30~500	186.28	-61.08	≤-26	0.00078	≤2.5	PASS
				500~1000	973.25	-60.80	≤-26	0.00083	≤2.5	PASS
				1000~2387	1704.94	-50.81	≤-26	0.00830	≤2.5	PASS
				2387~2400	2398.90	-49.67	≤-16	0.01079	≤25	PASS
				2483.5~2496.5	2484.03	-48.69	≤-16	0.01352	≤25	PASS
				2496.5~13000	3595.17	-45.38	≤-26	0.02897	≤2.5	PASS
	3DH5	Ant1	2402	30~500	473.80	-61.46	≤-26	0.00071	≤2.5	PASS
				500~1000	704.63	-58.45	≤-26	0.00143	≤2.5	PASS
				1000~2387	1667.15	-50.57	≤-26	0.00877	≤2.5	PASS
				2387~2400	2400.00	-20.64	≤-16	8.62979	≤25	PASS
				2483.5~2496.5	2487.80	-49.47	≤-16	0.01130	≤25	PASS
				2496.5~13000	7206.27	-51.66	≤-26	0.00682	≤2.5	PASS
			2441	30~500	485.43	-61.65	≤-26	0.00068	≤2.5	PASS
				500~1000	703.63	-56.63	≤-26	0.00217	≤2.5	PASS
				1000~2387	2382.15	-50.36	≤-26	0.00920	≤2.5	PASS
				2387~2400	2398.12	-49.48	≤-16	0.01127	≤25	PASS
				2483.5~2496.5	2488.04	-49.12	≤-16	0.01225	≤25	PASS
				2496.5~13000	7323.38	-51.32	≤-26	0.00738	≤2.5	PASS
			2480	30~500	498.12	-61.79	≤-26	0.00066	≤2.5	PASS
				500~1000	704.38	-53.64	≤-26	0.00433	≤2.5	PASS
				1000~2387	2138.73	-50.53	≤-26	0.00885	≤2.5	PASS
				2387~2400	2398.74	-50.04	≤-16	0.00991	≤25	PASS
				2483.5~2496.5	2483.90	-48.72	≤-16	0.01343	≤25	PASS
				2496.5~13000	7440.50	-49.23	≤-26	0.01194	≤2.5	PASS

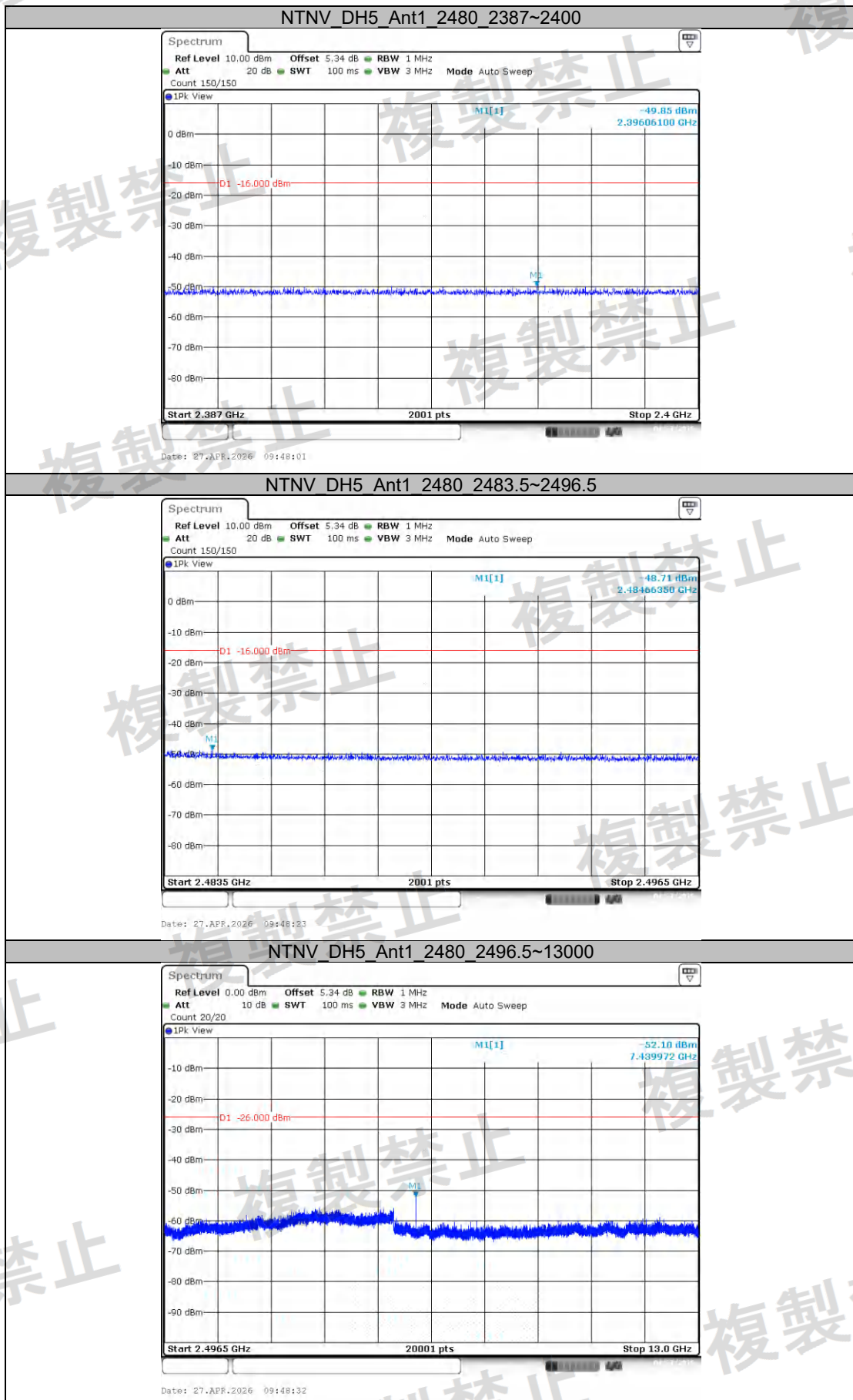


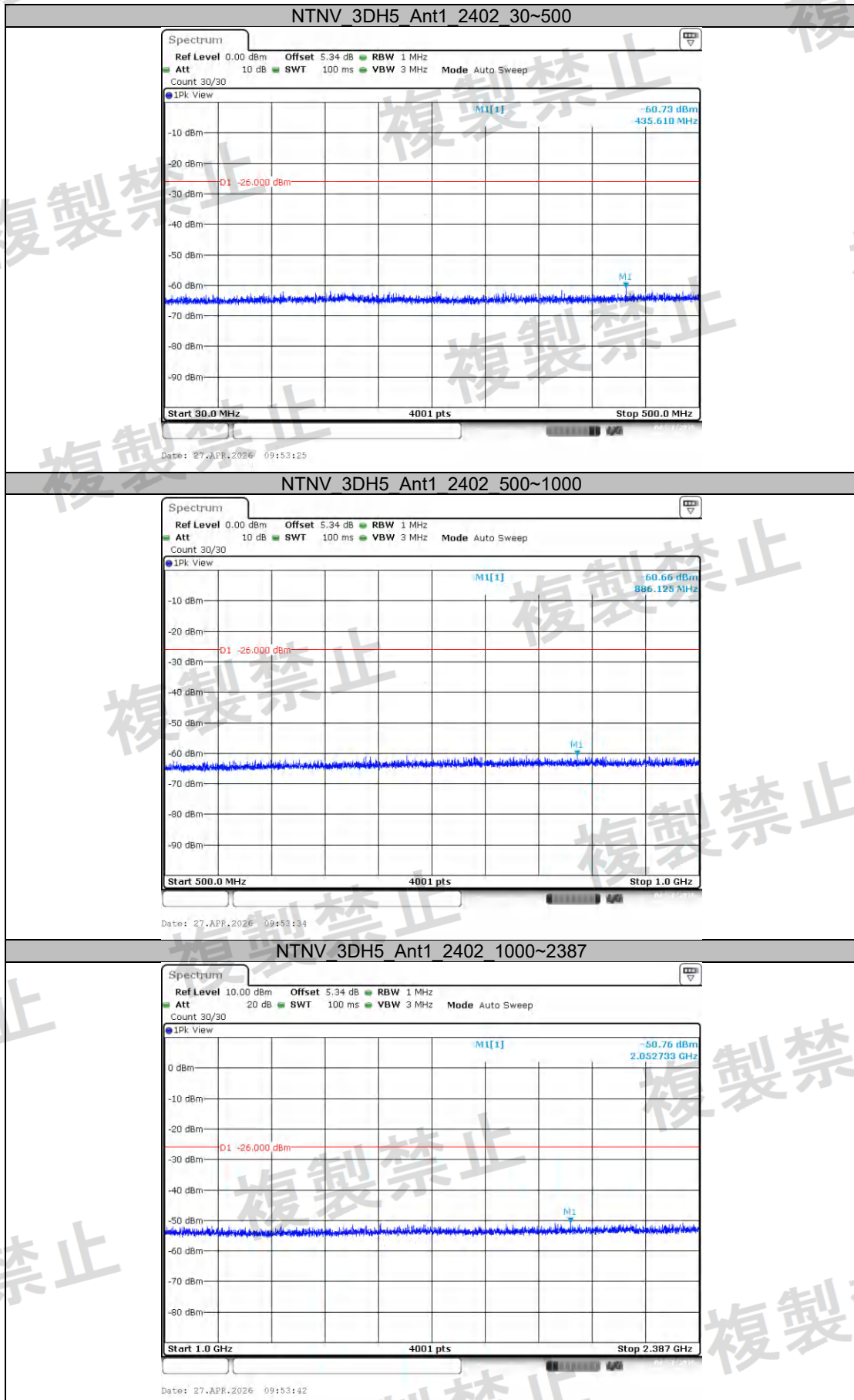


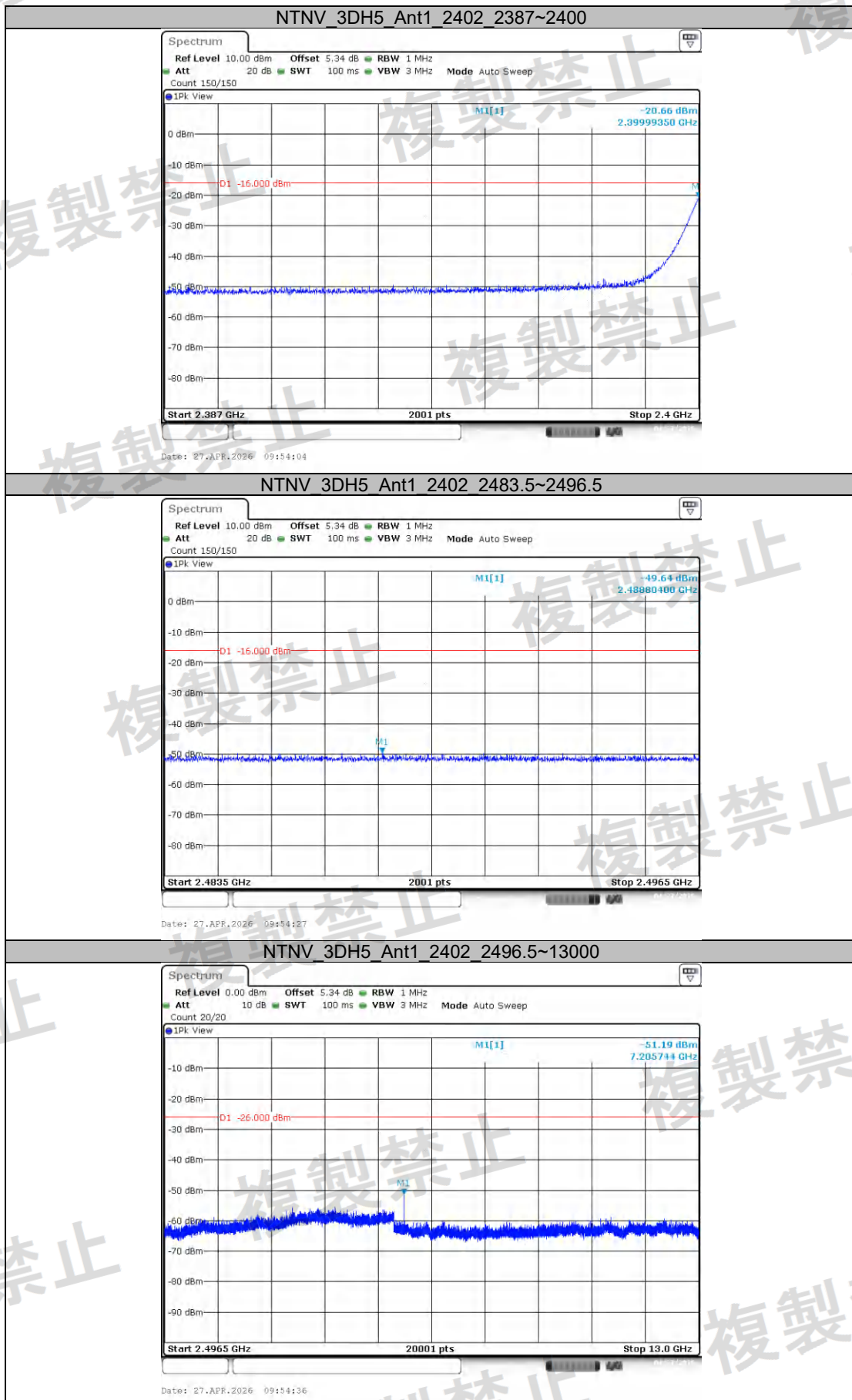


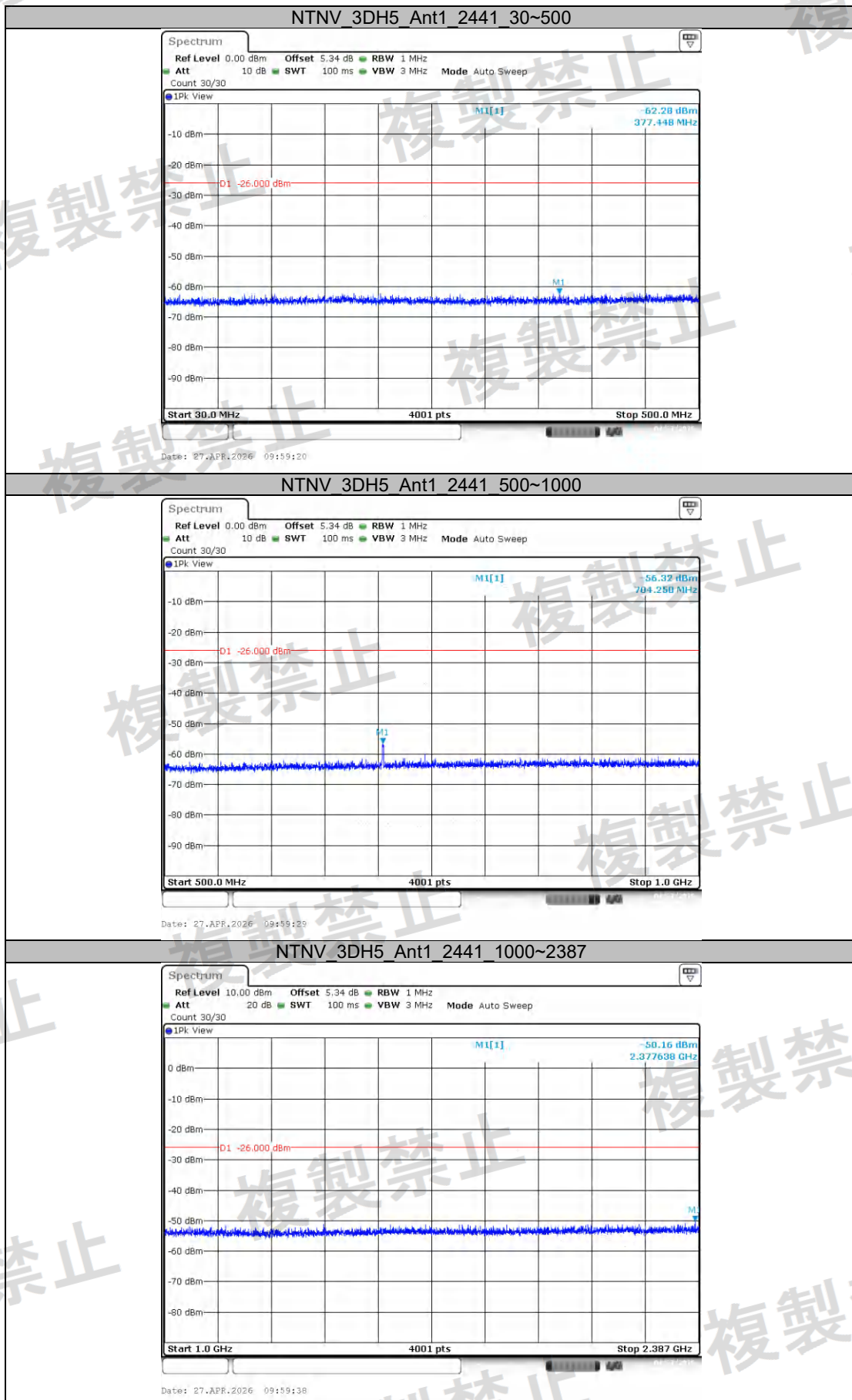


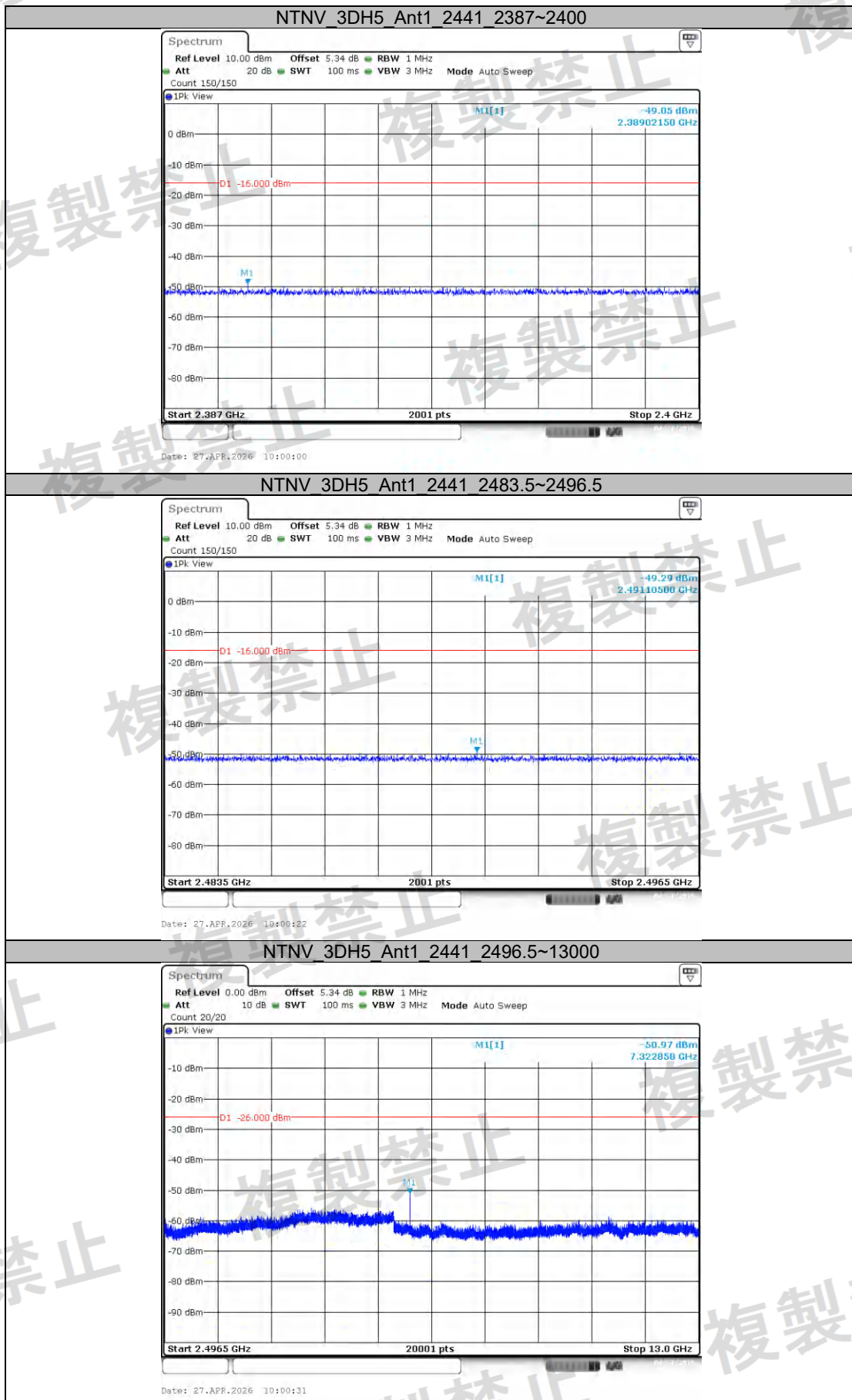




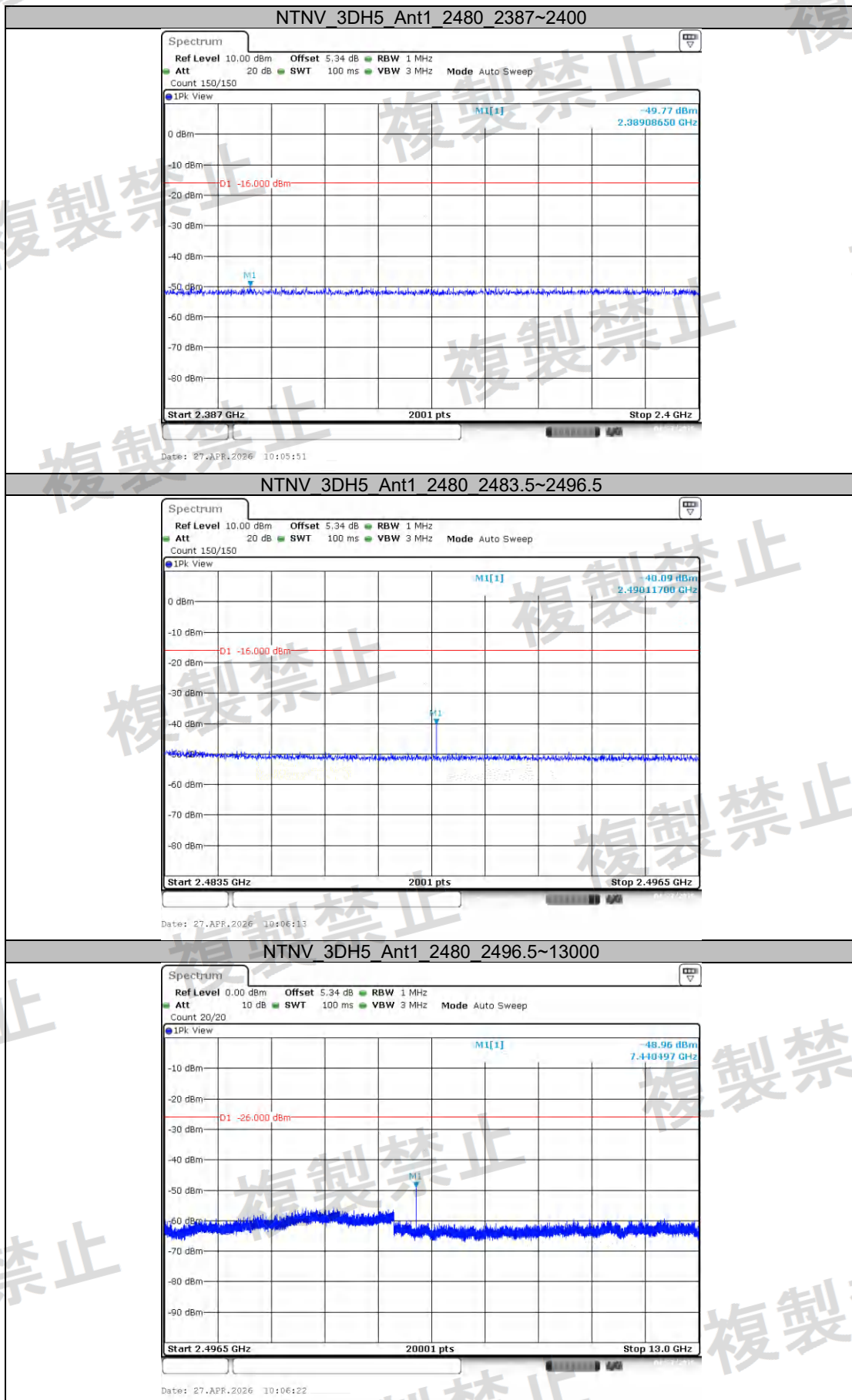




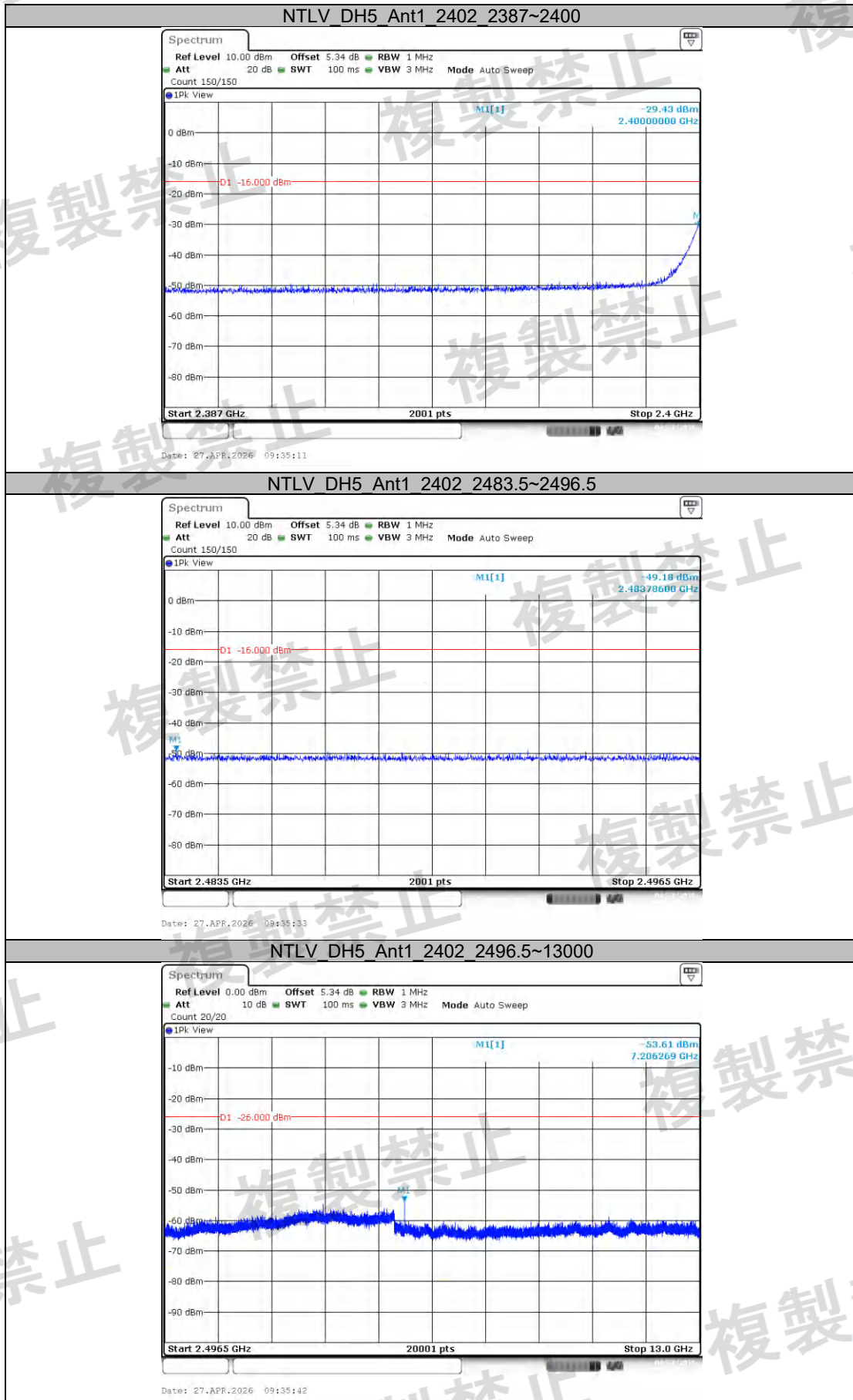




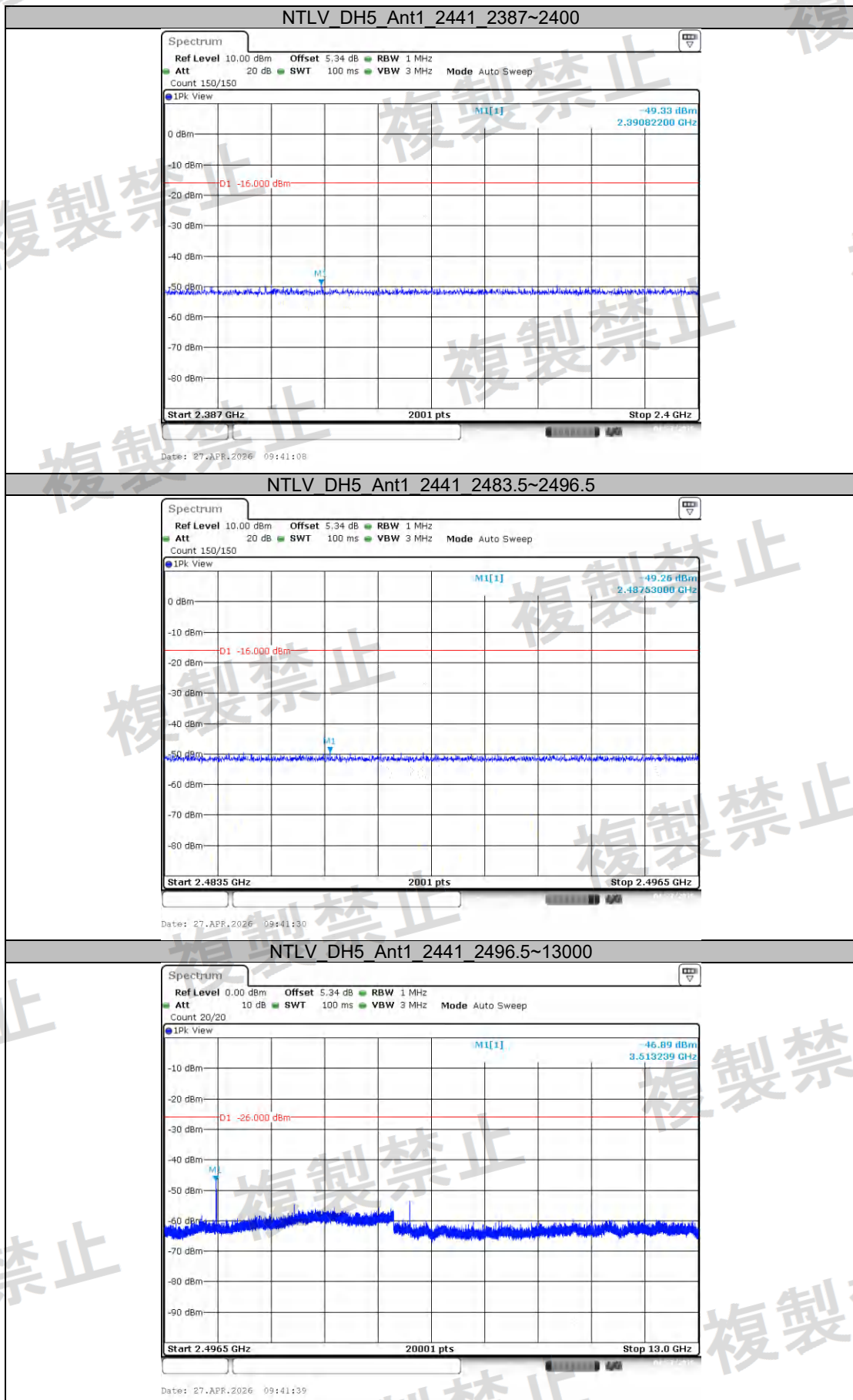




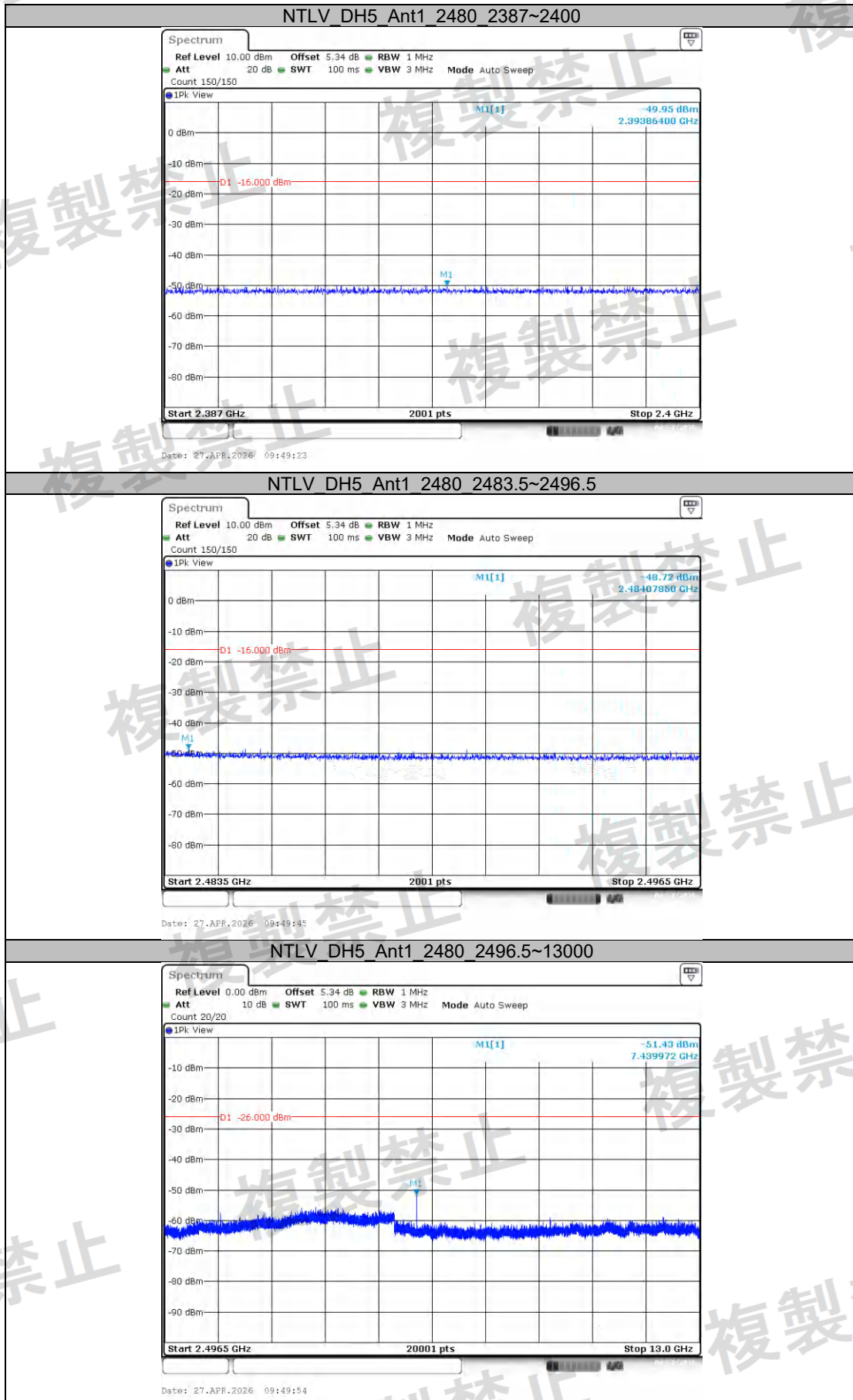


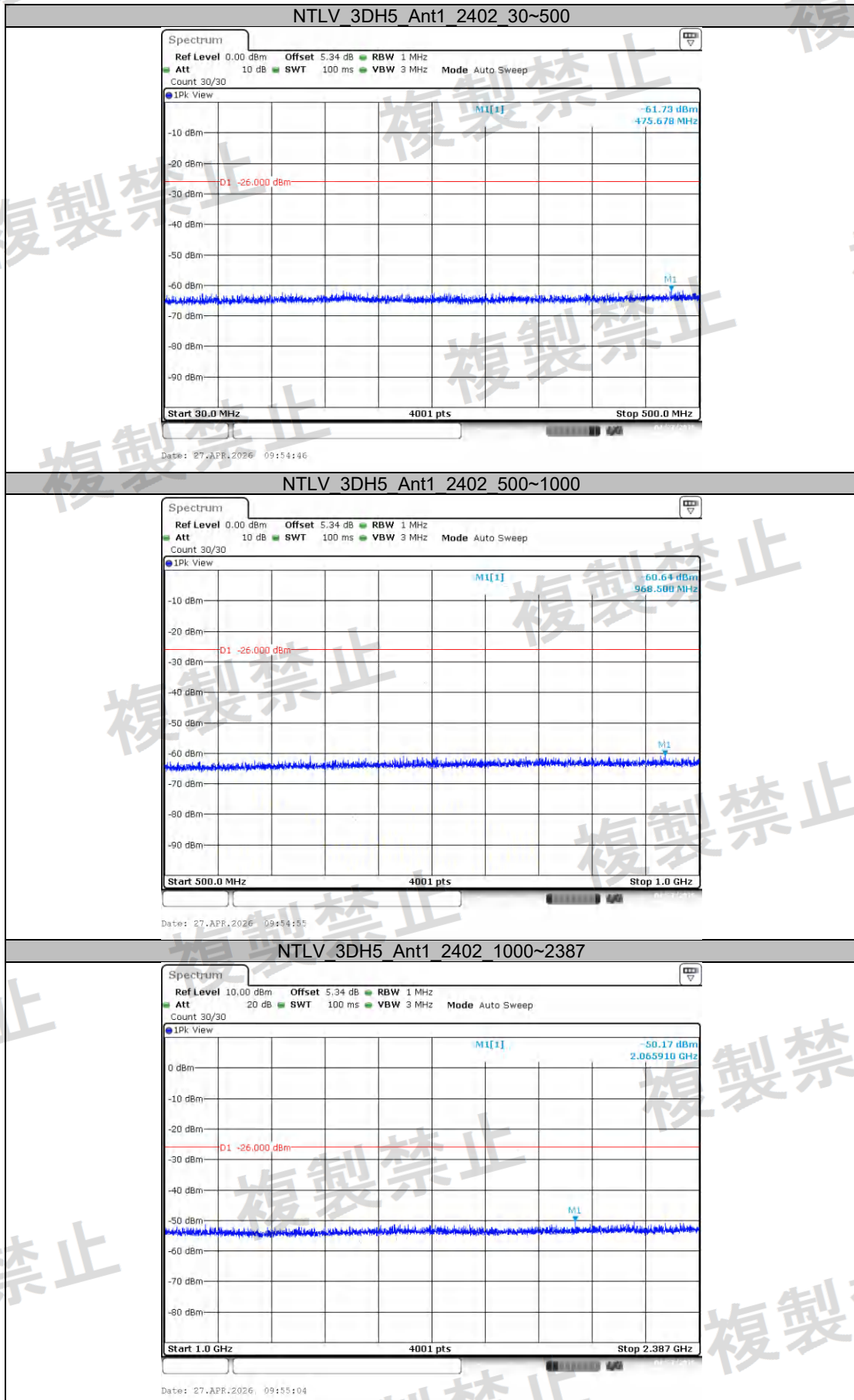


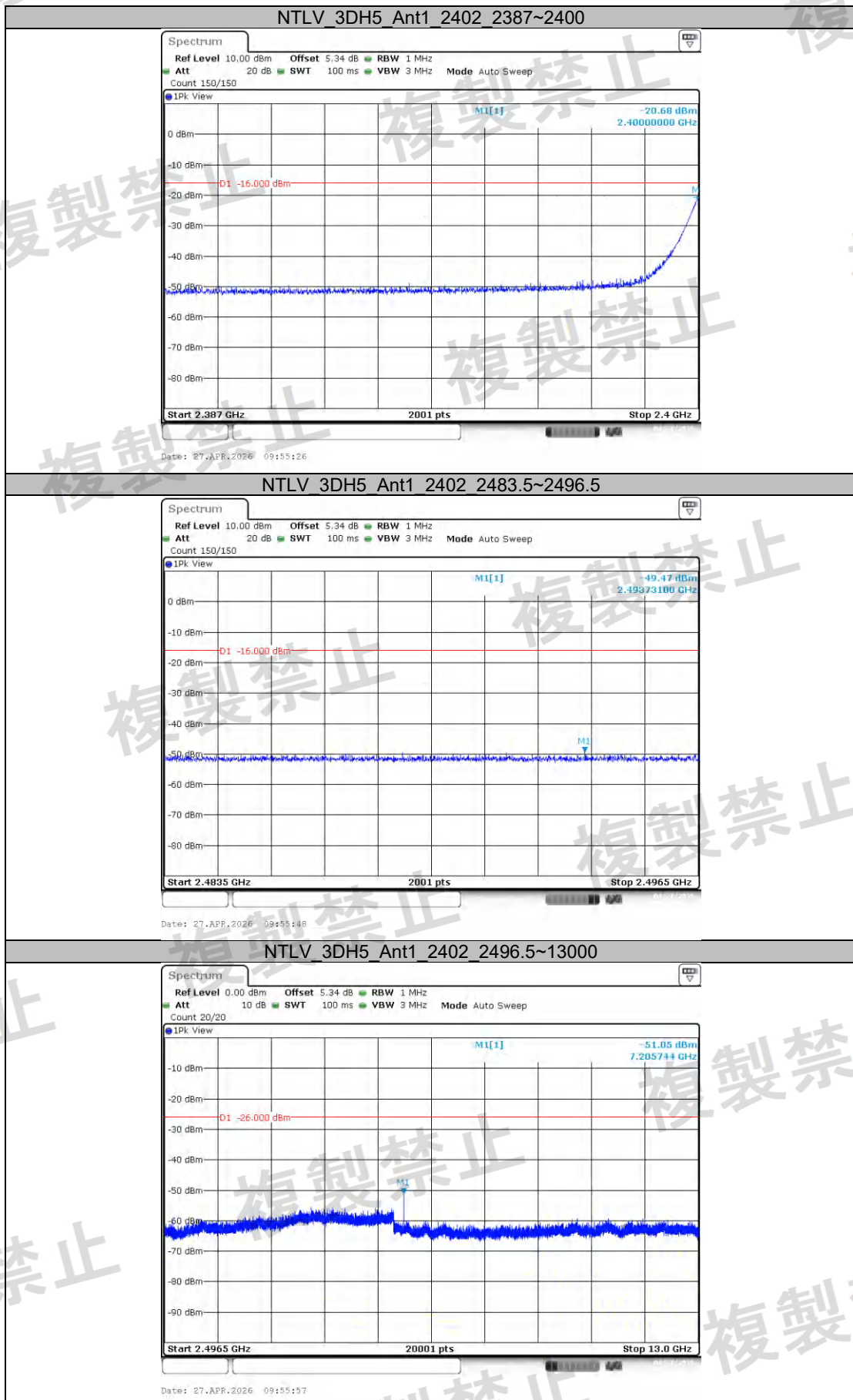




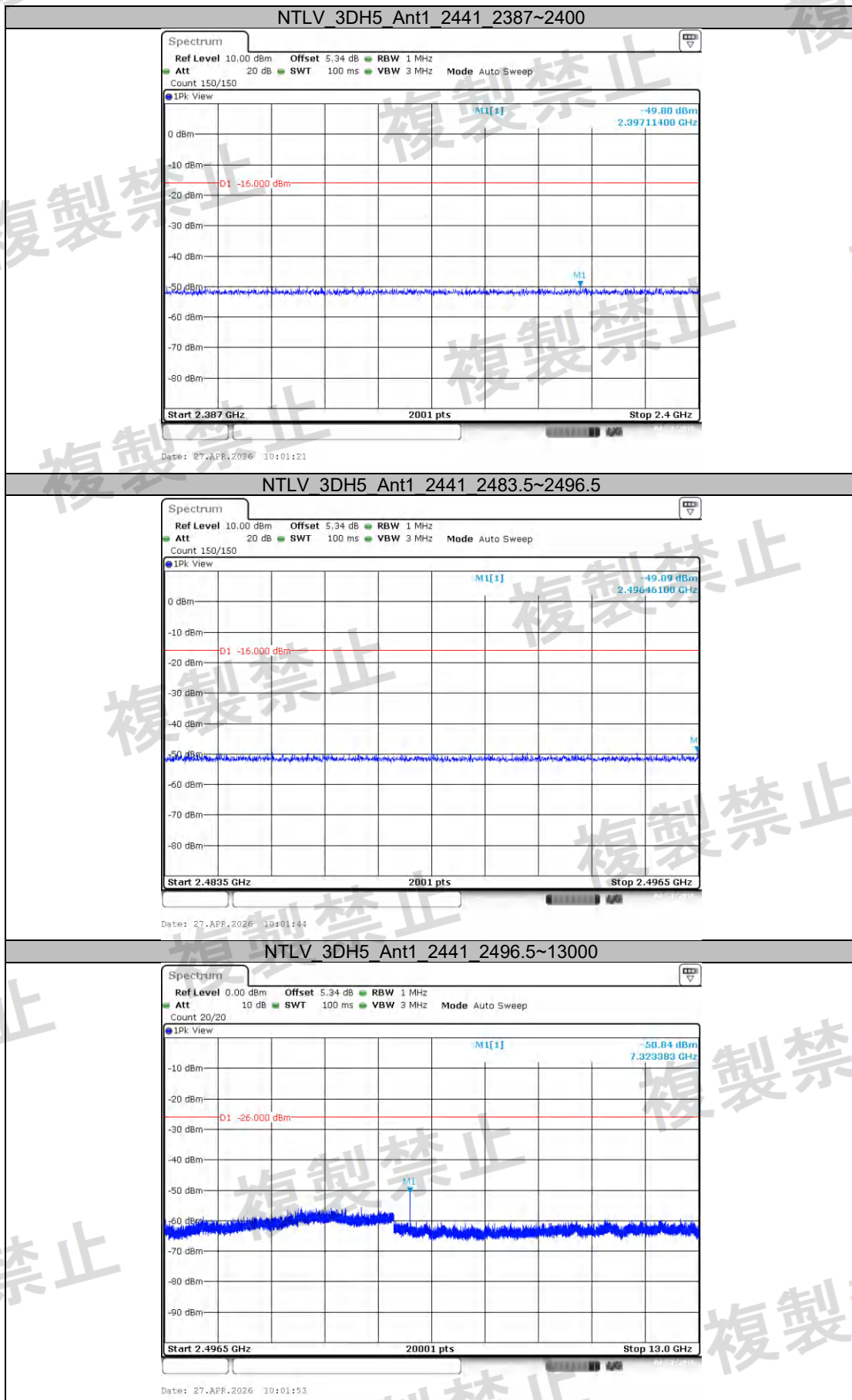


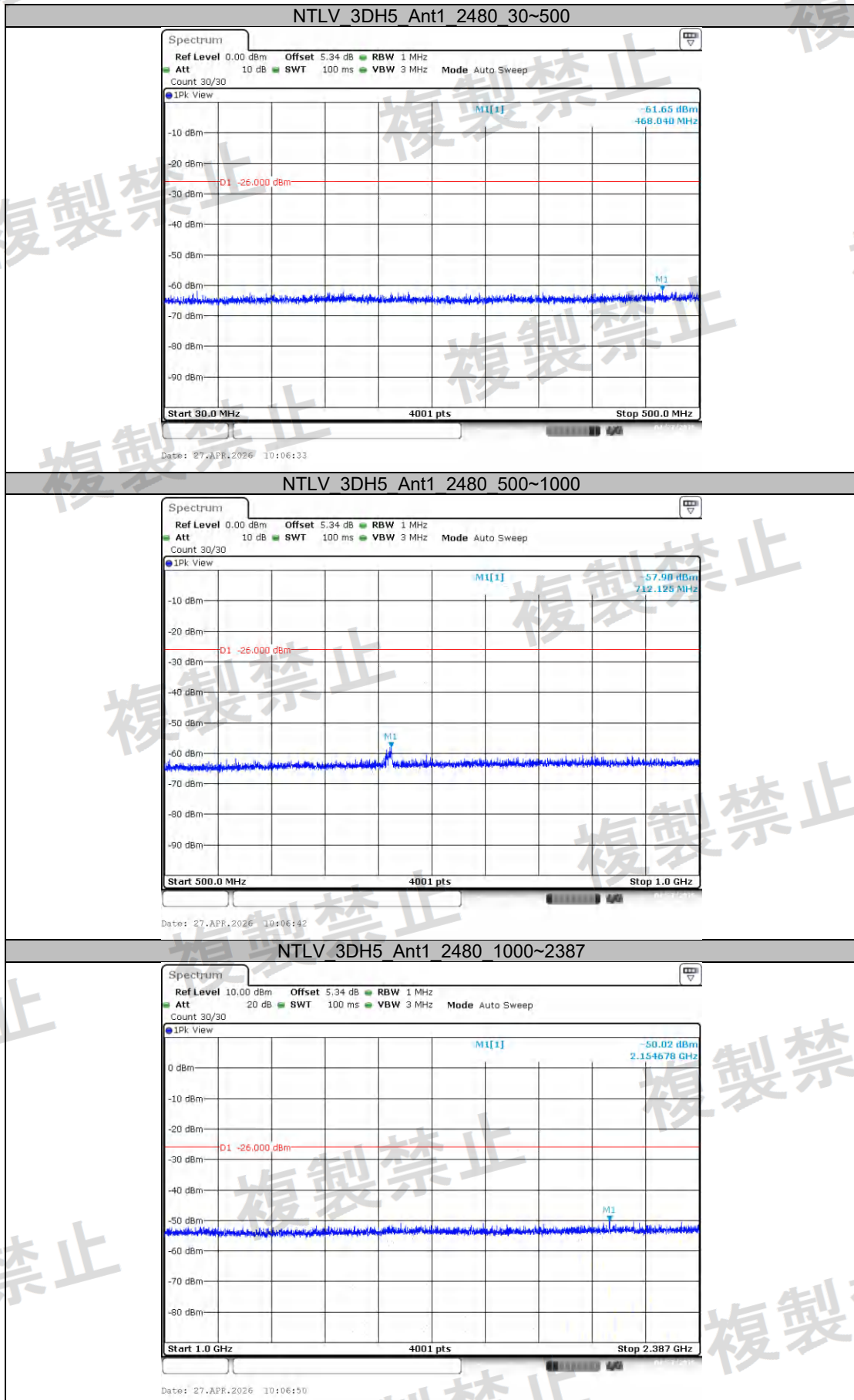


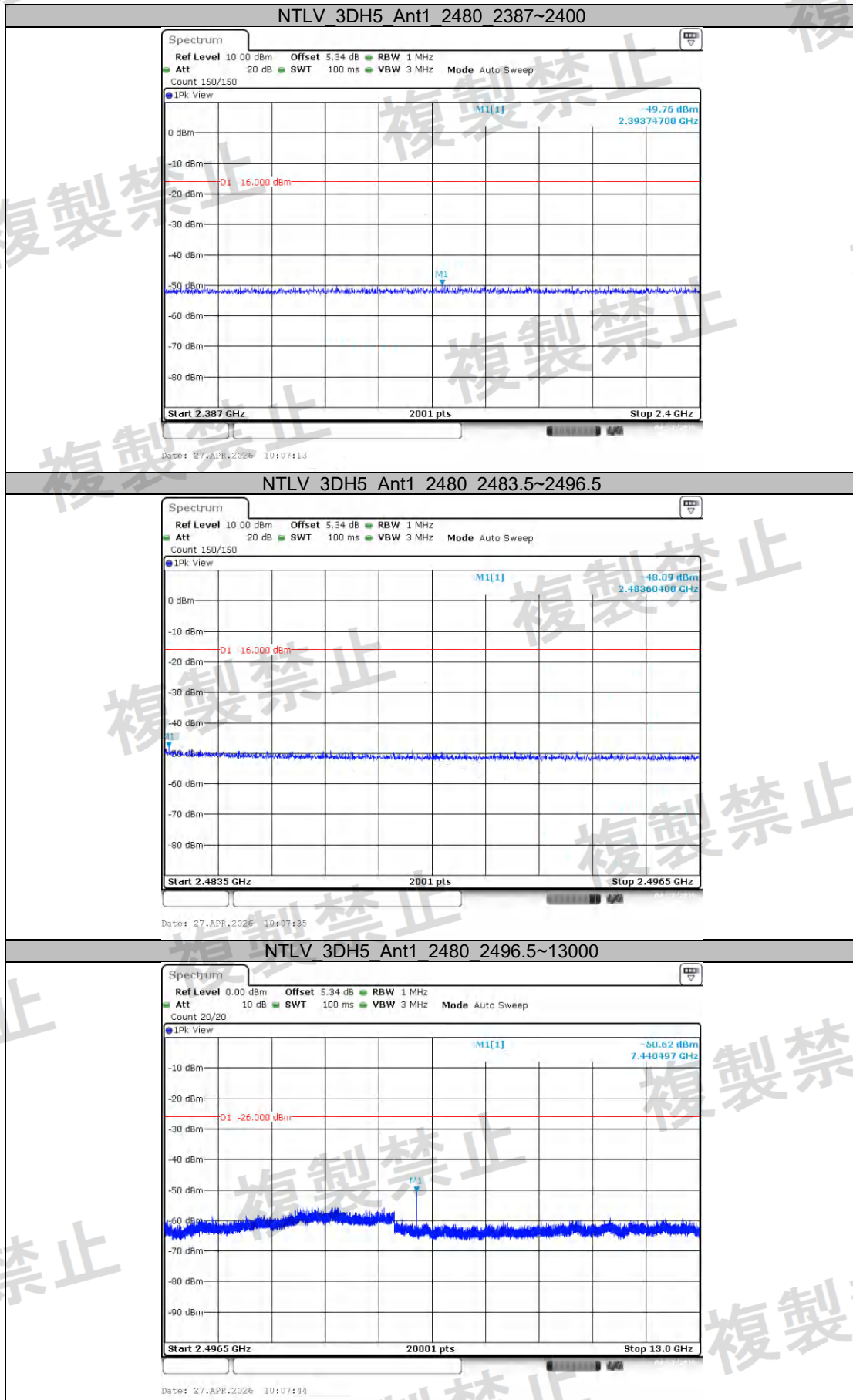


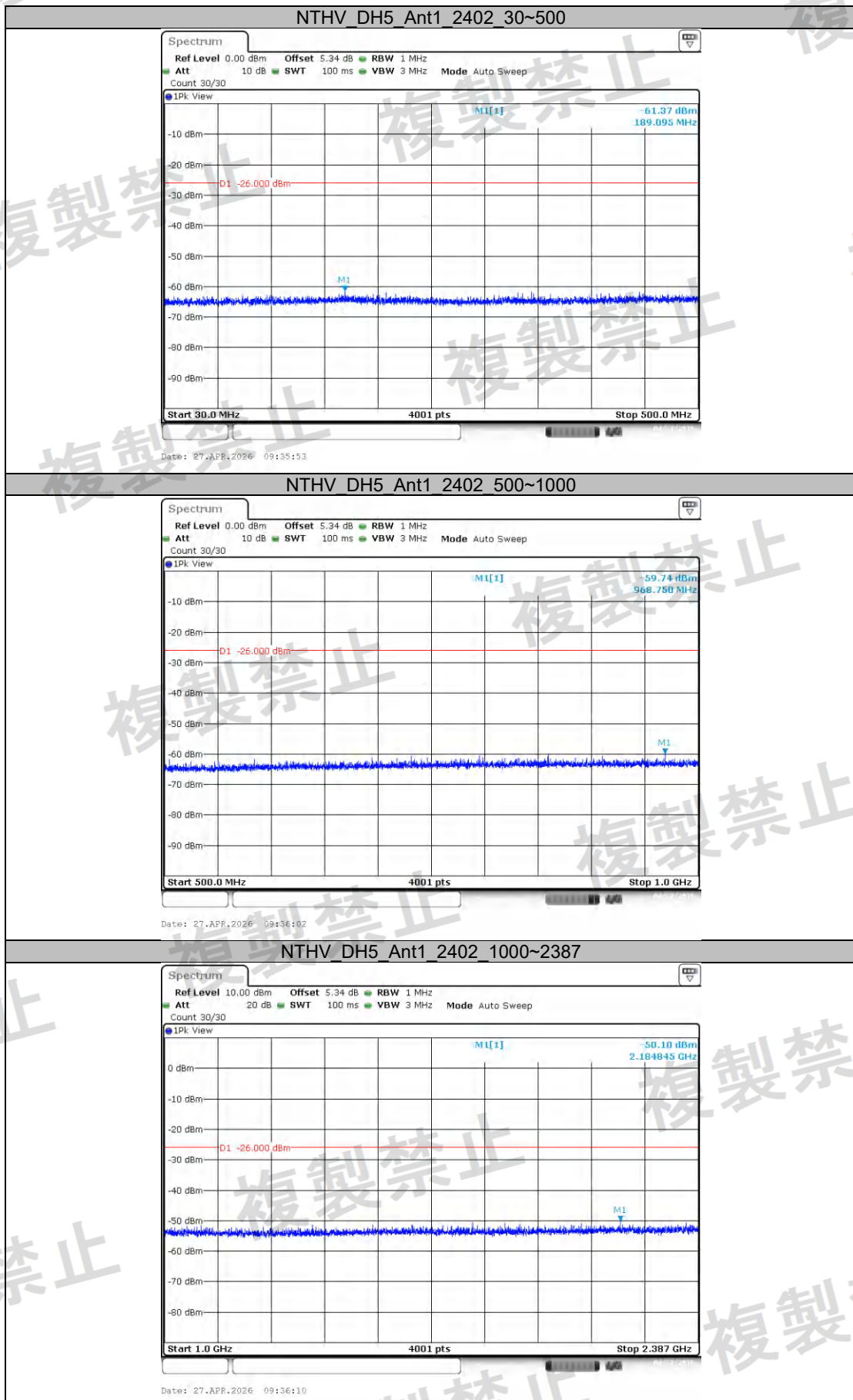


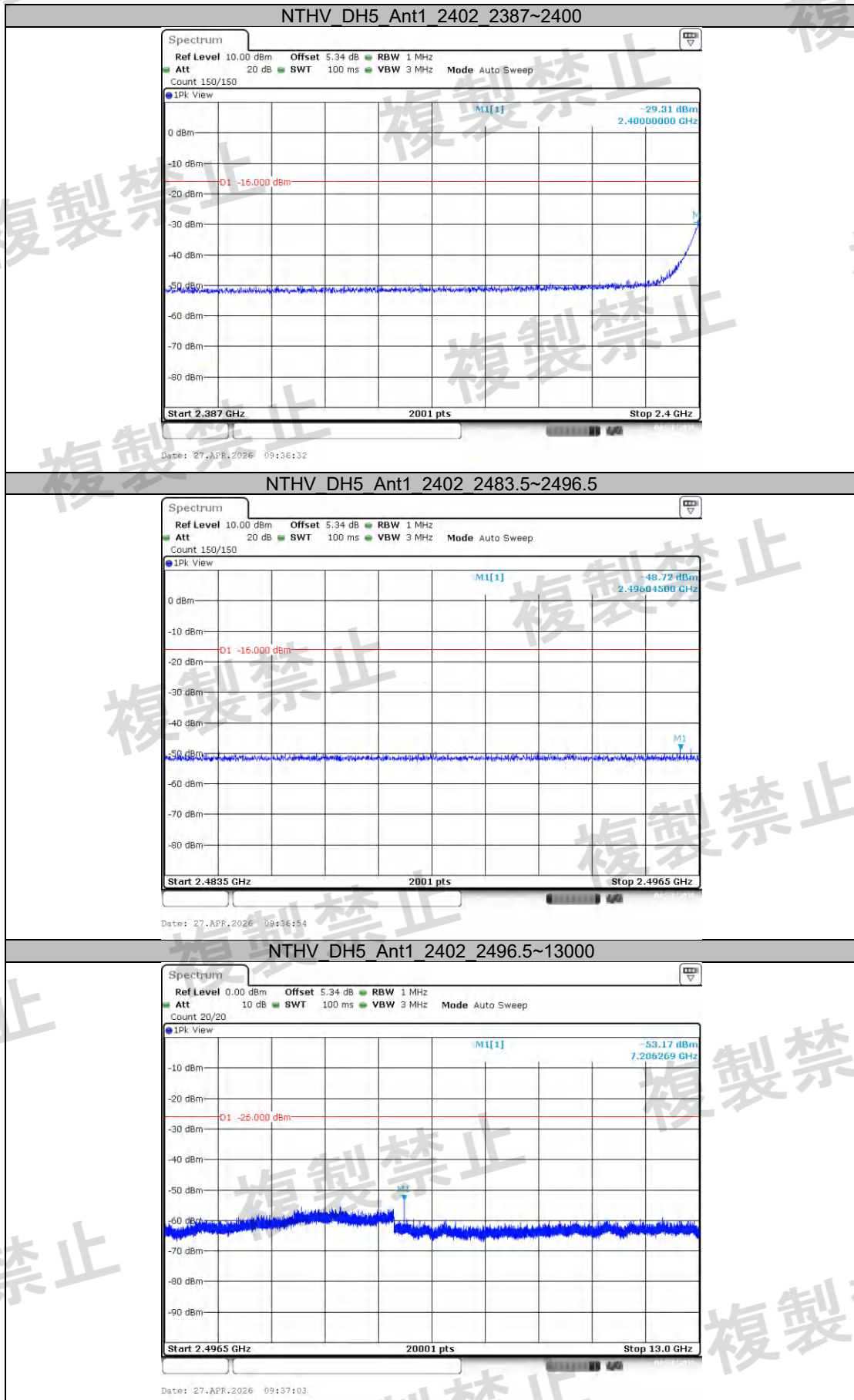




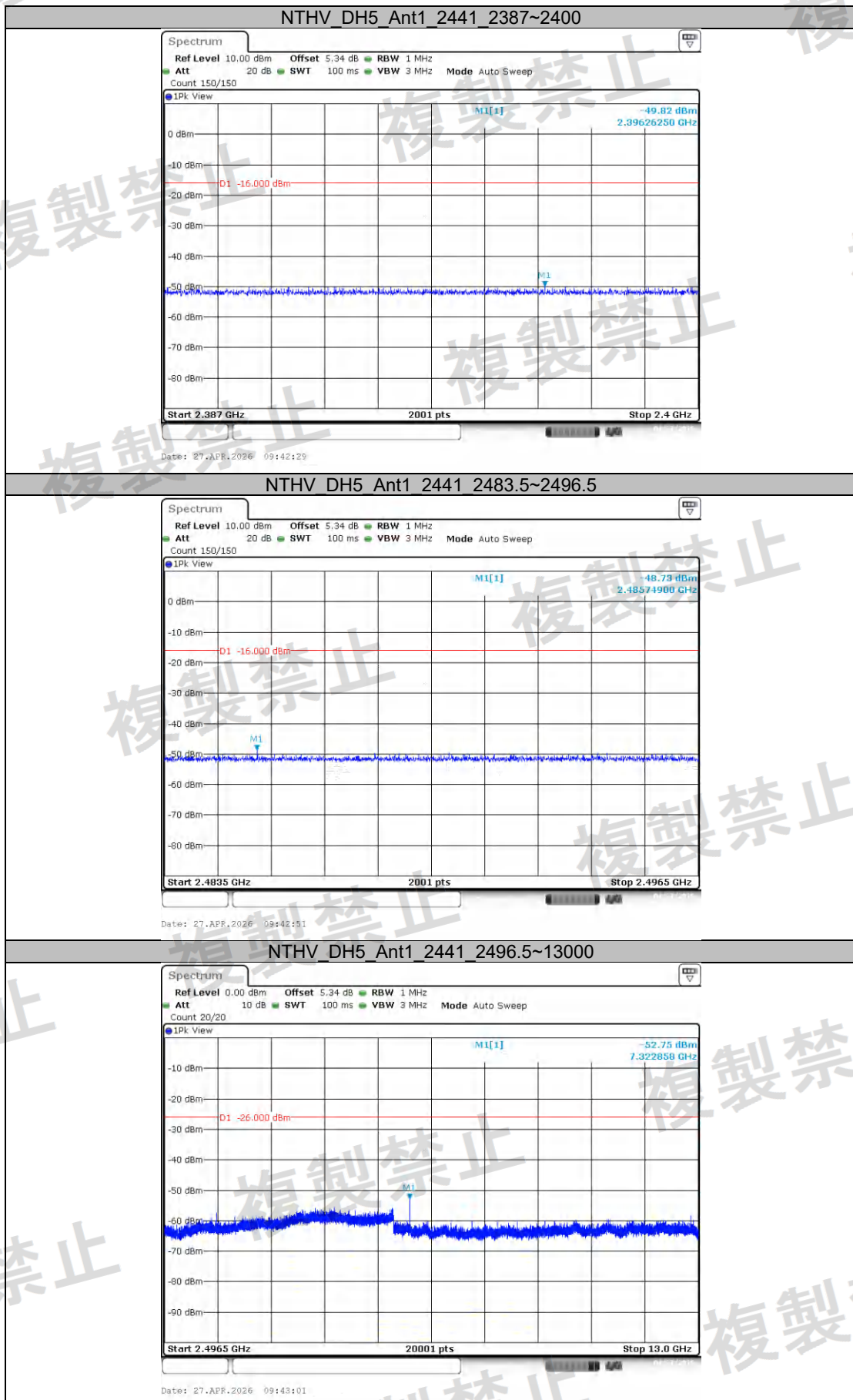


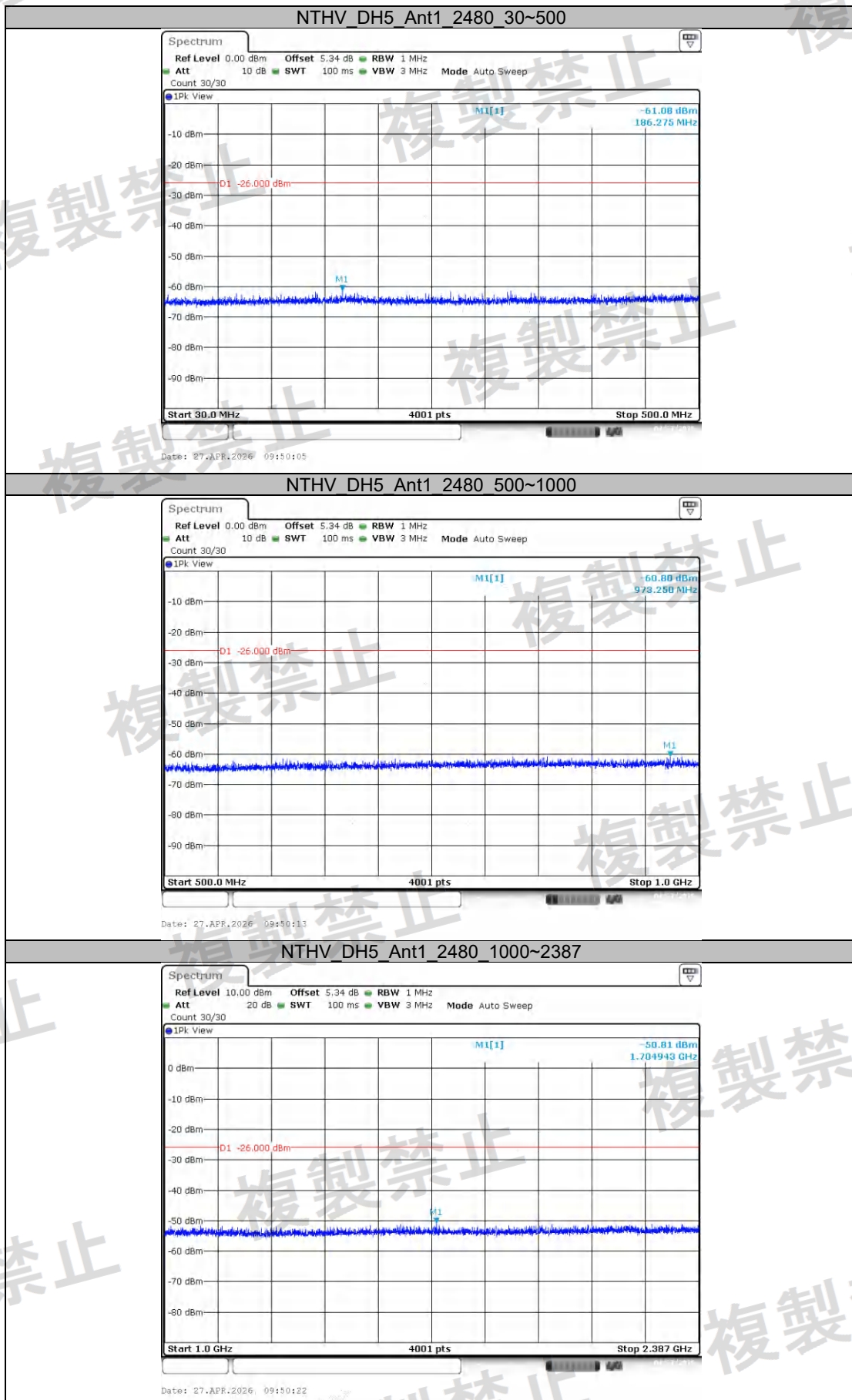


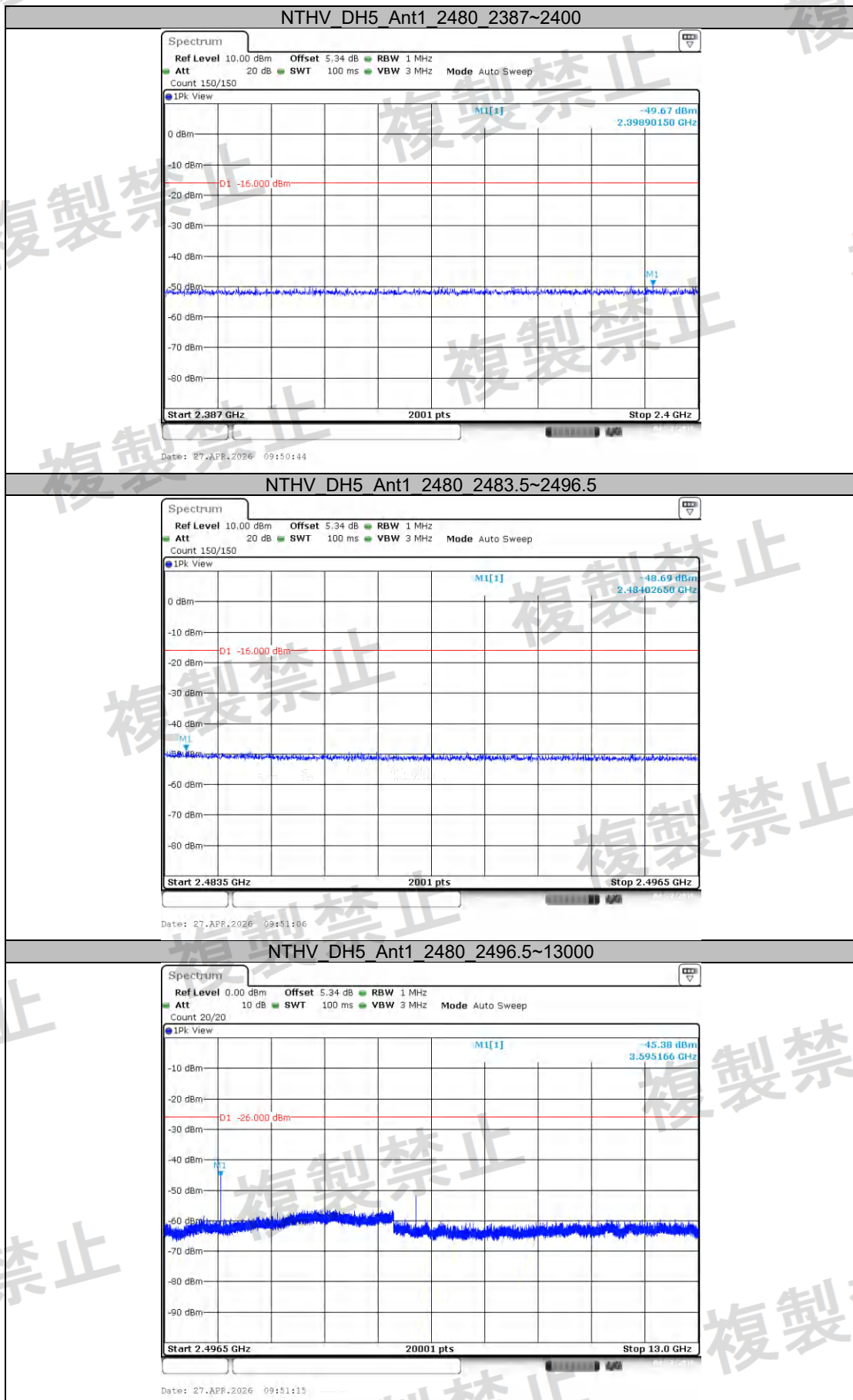




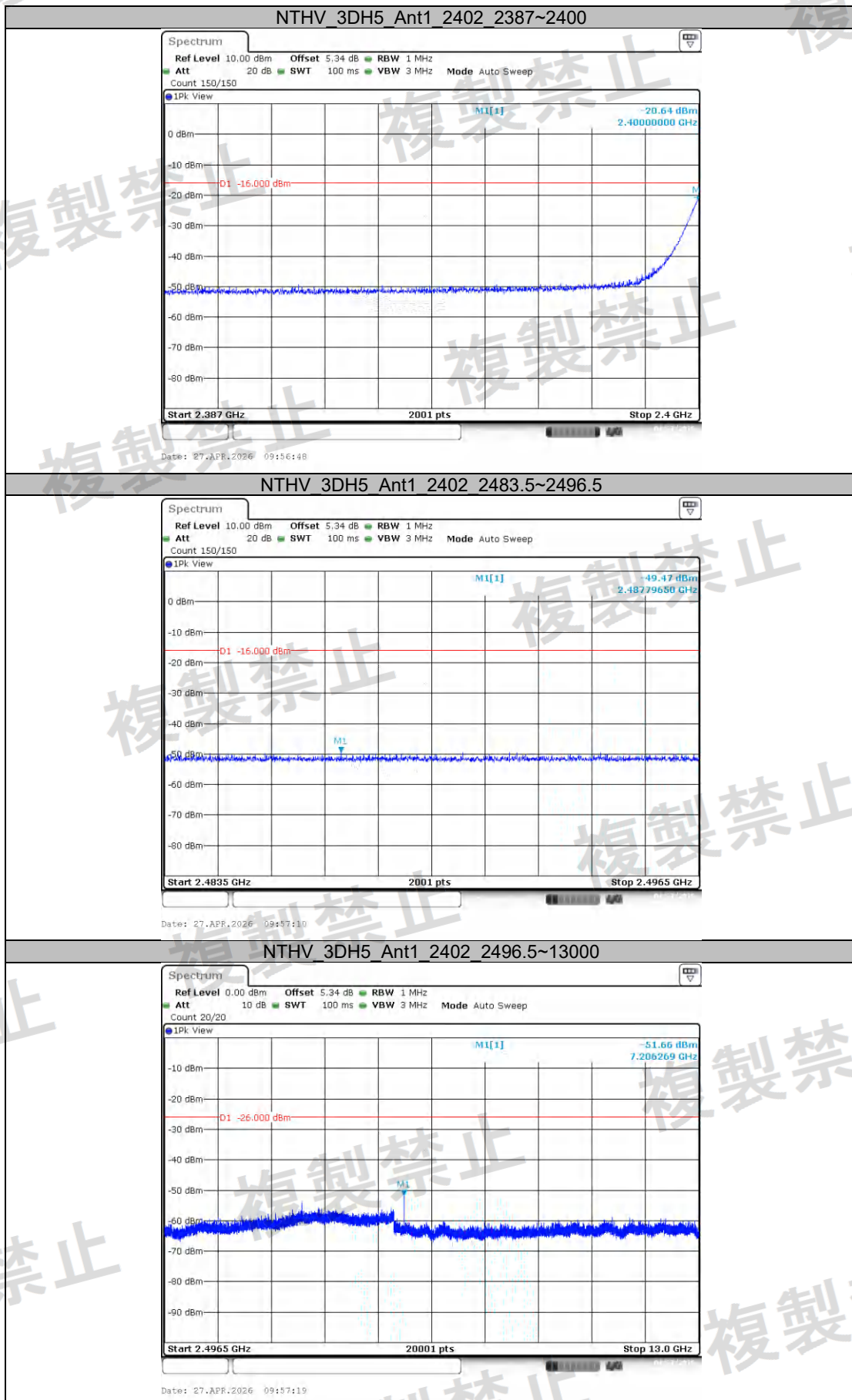




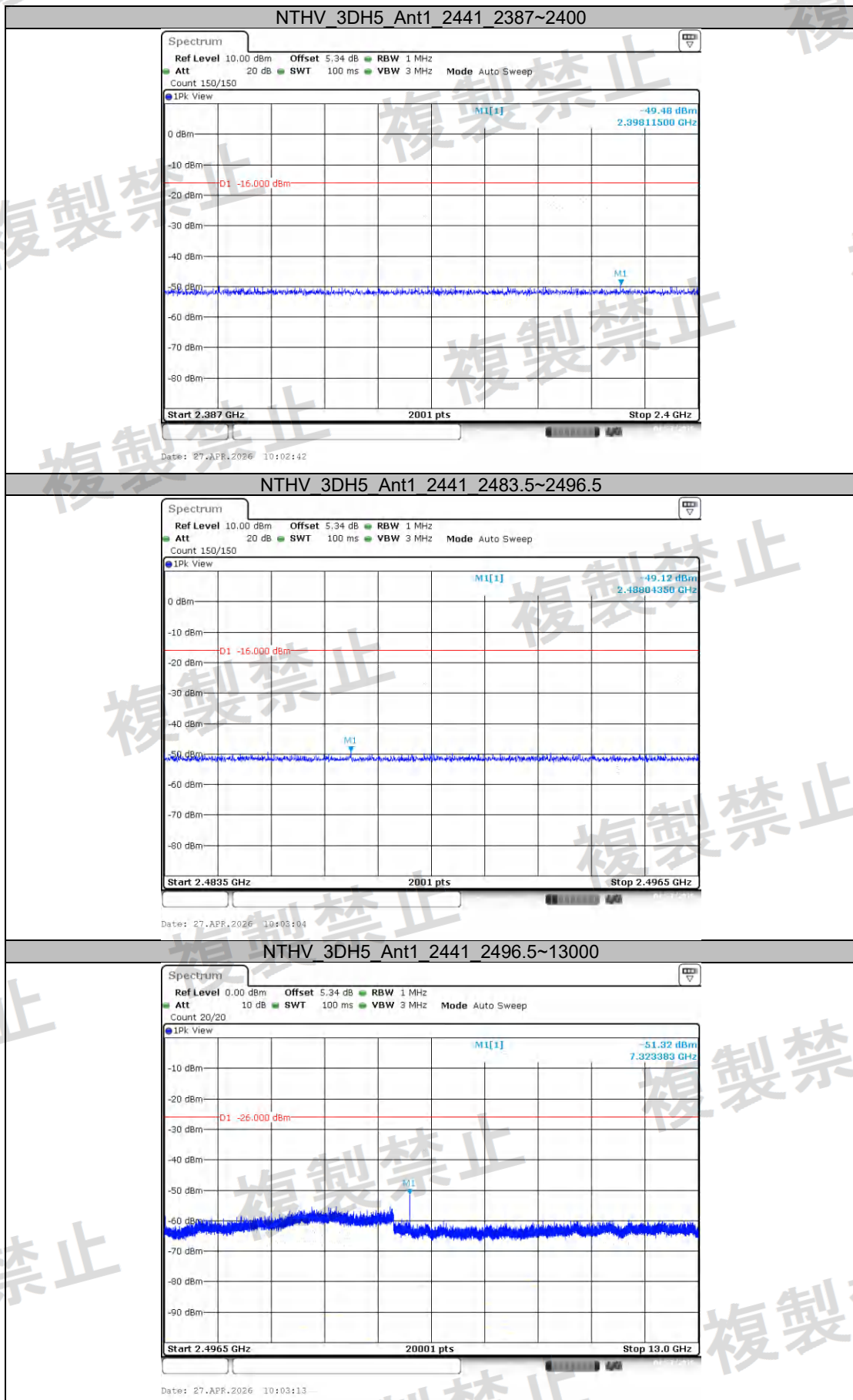




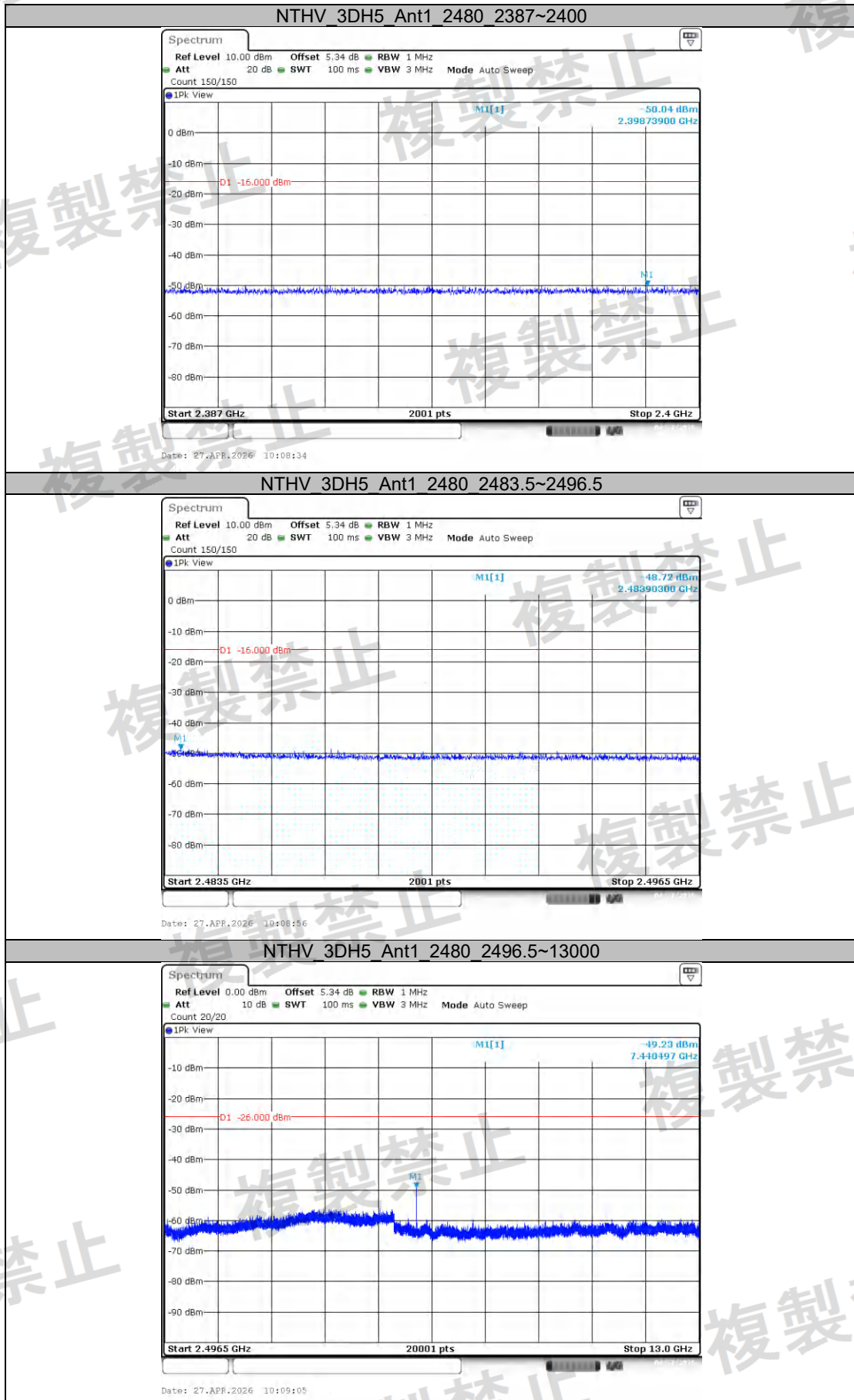






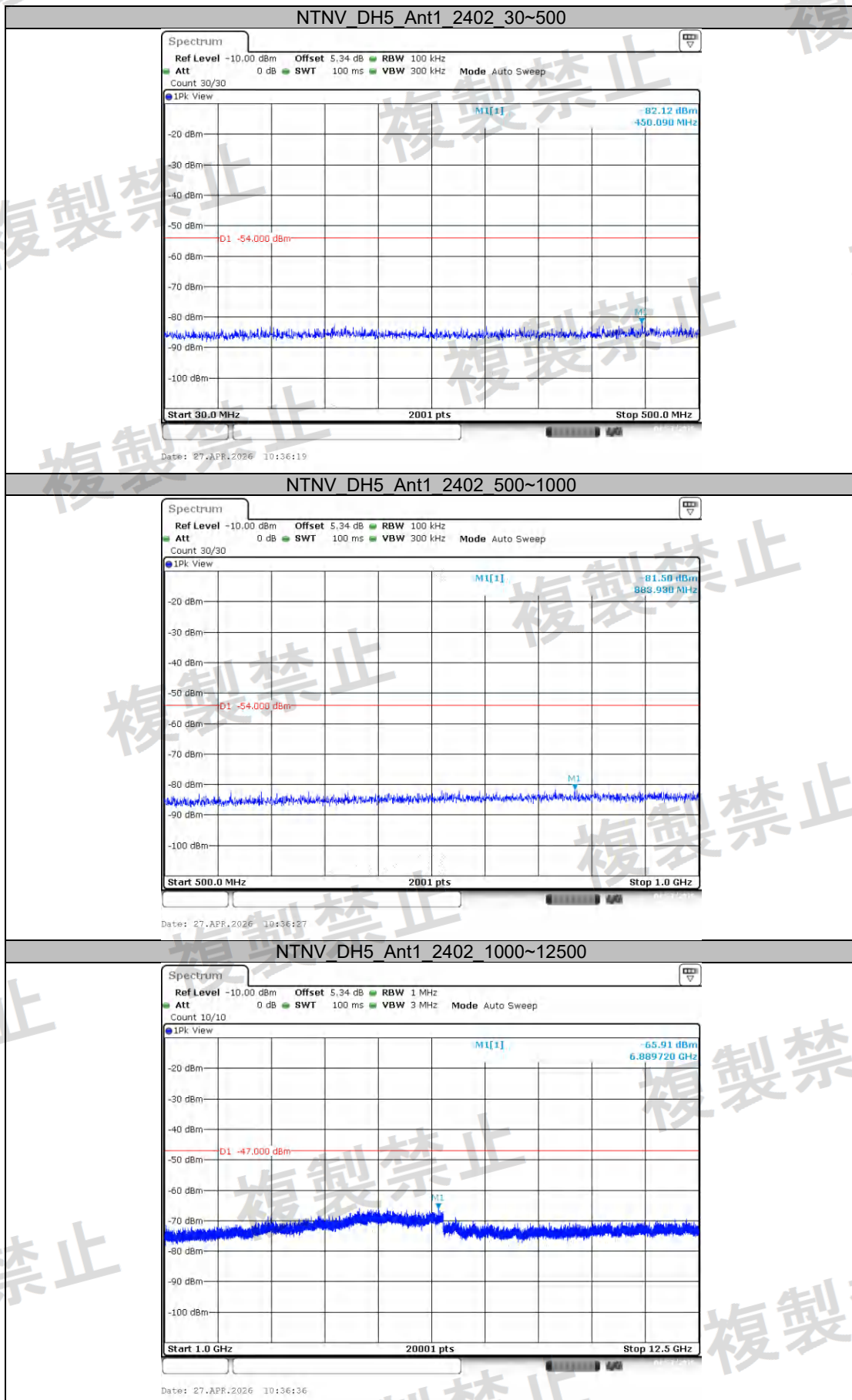


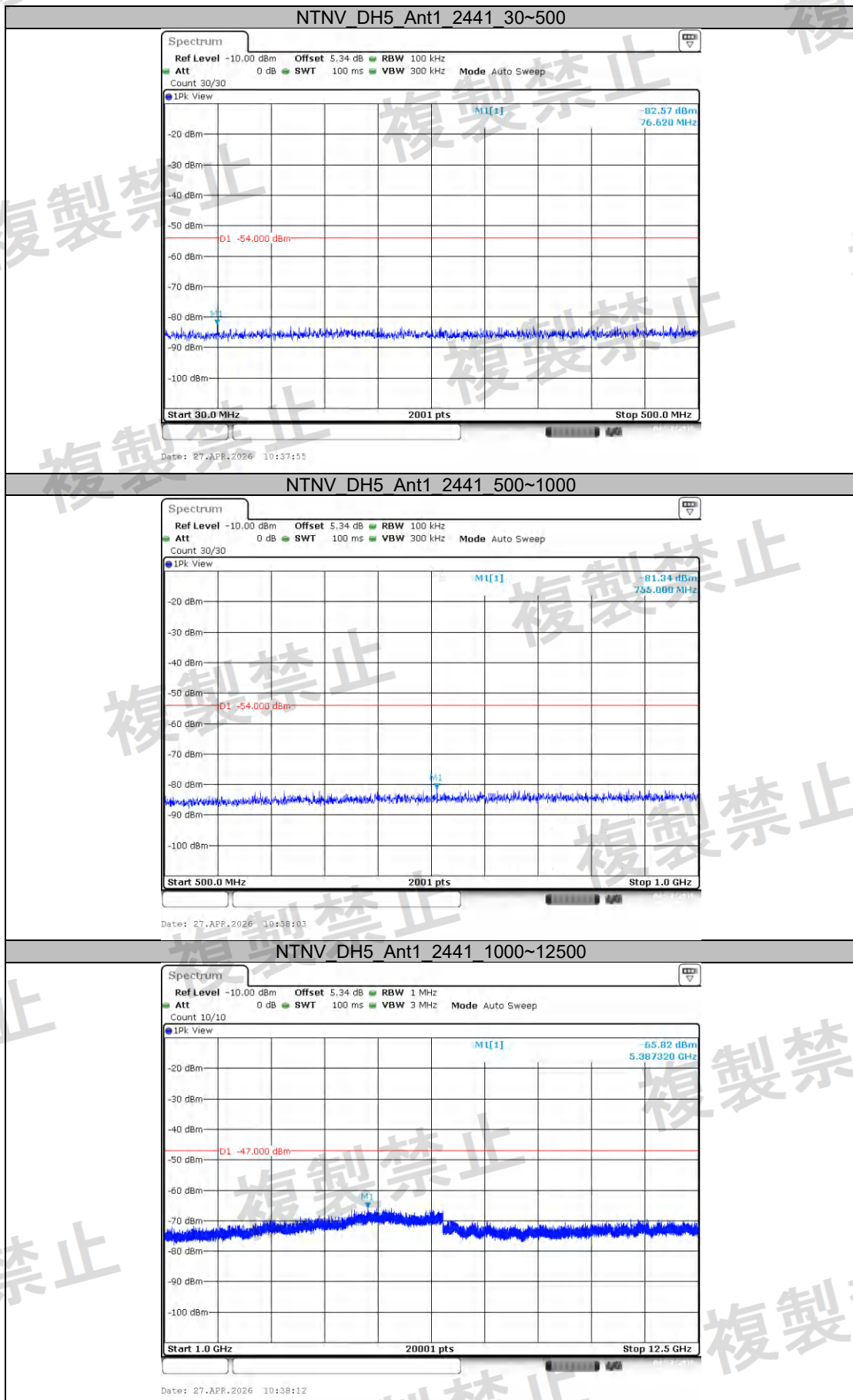


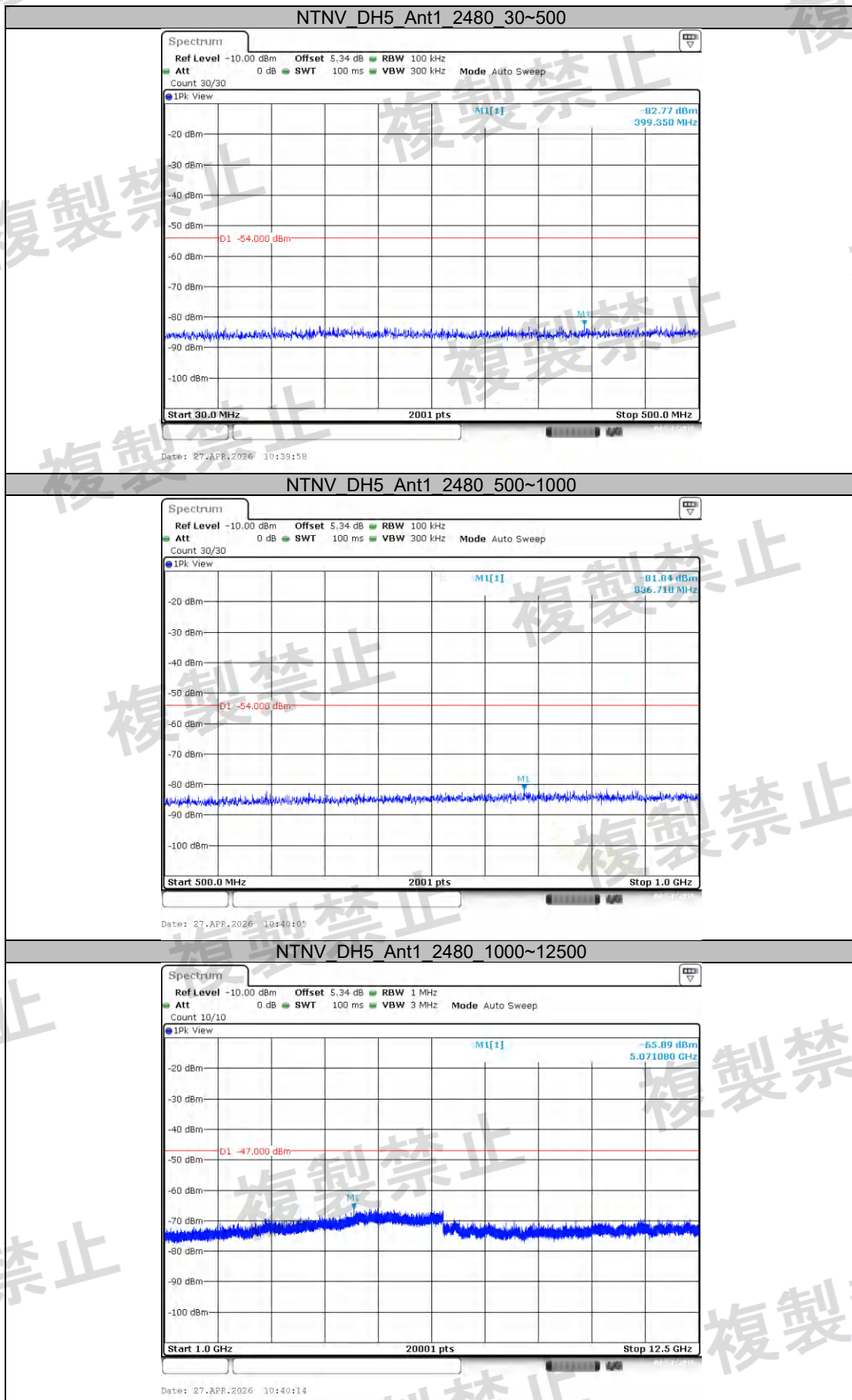


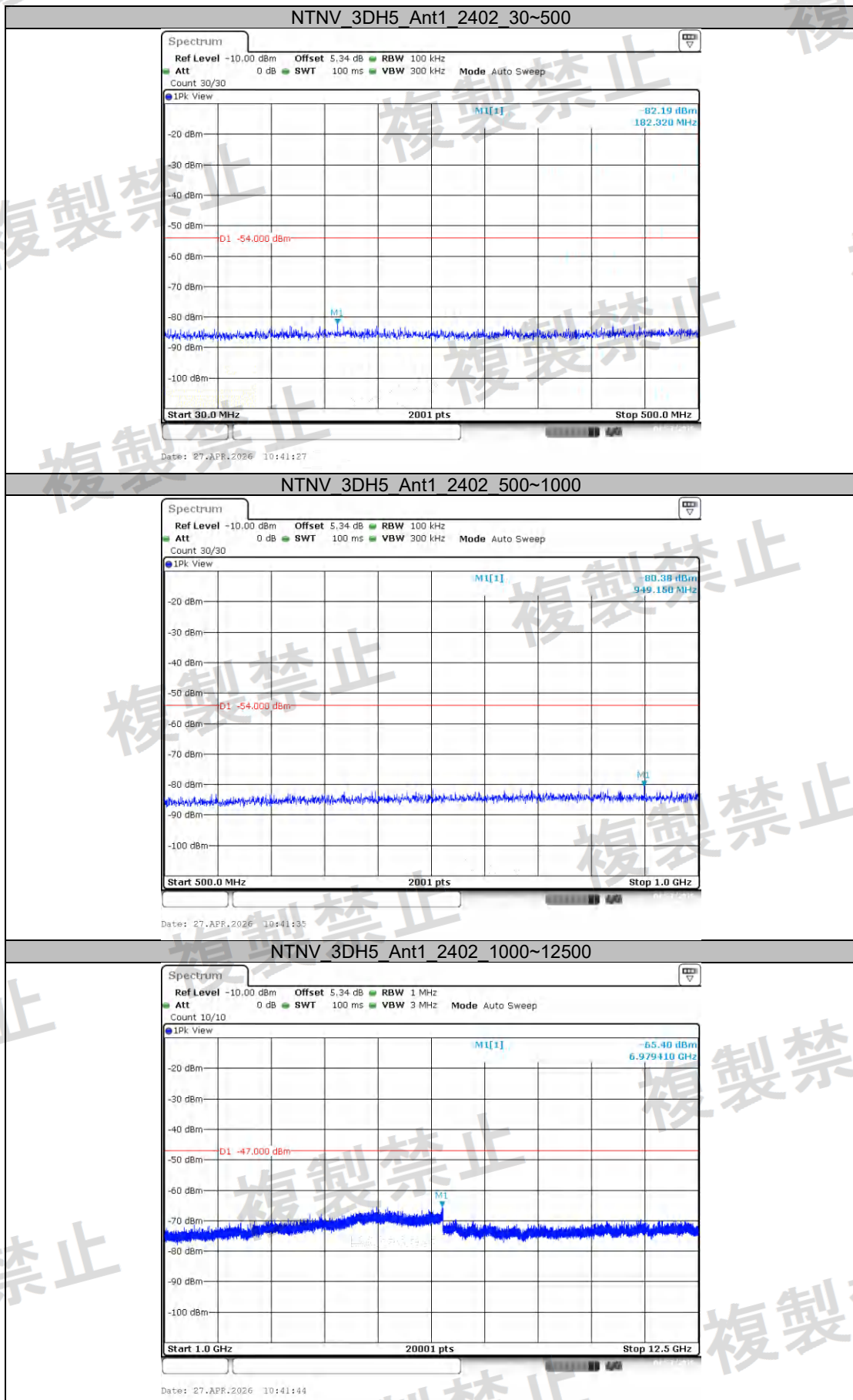
6 Appendix A.6: SPURIOUS EMISSIONS FOR RECEIVER

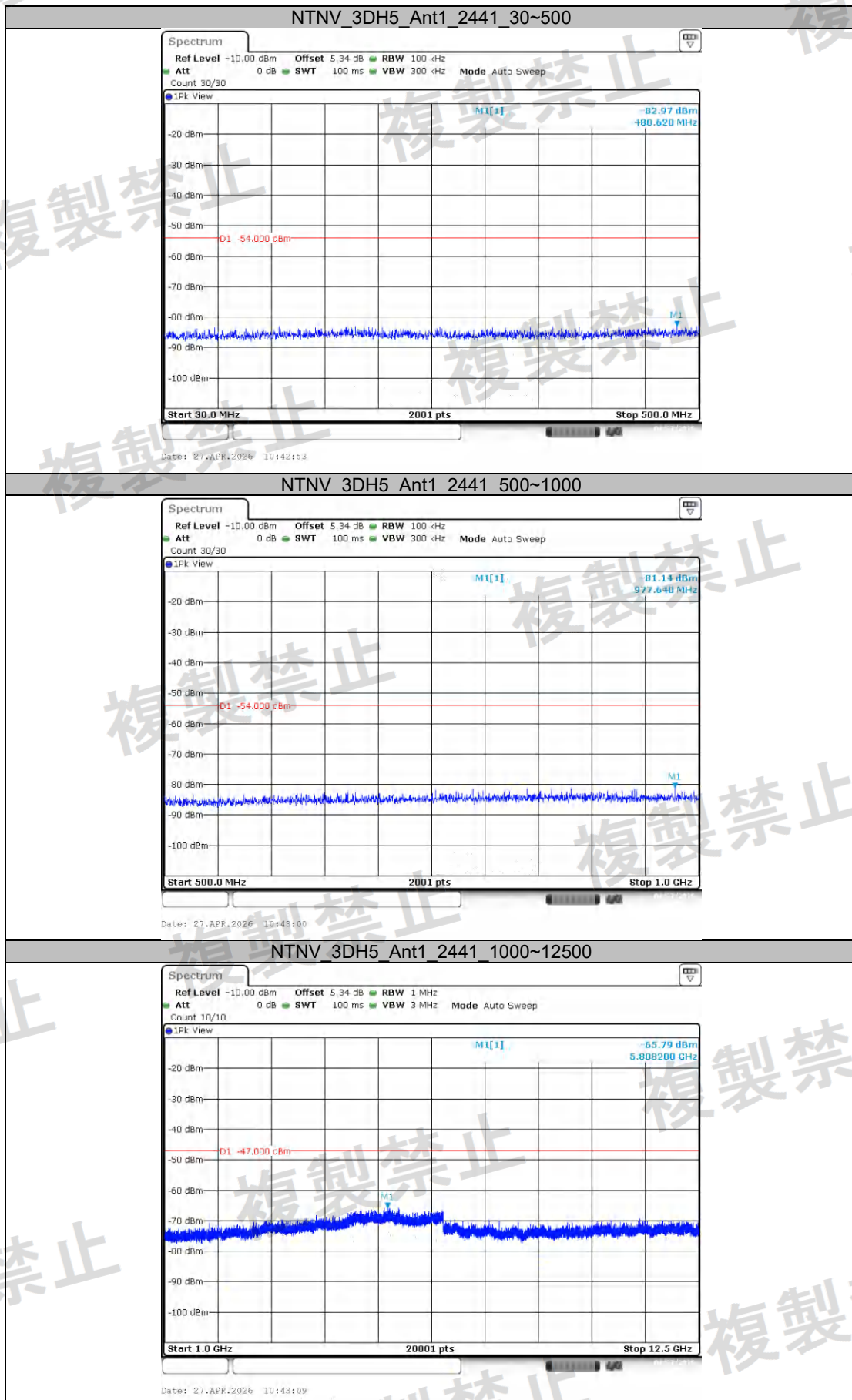
Test Condition	Test Mode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~500	450.09	-82.12	≤-54	0.00614	≤4	PASS
				500~1000	883.93	-81.50	≤-54	0.00708	≤4	PASS
				1000~12500	6889.72	-65.91	≤-47	0.25645	≤20	PASS
			2441	30~500	76.62	-82.57	≤-54	0.00553	≤4	PASS
				500~1000	755.00	-81.34	≤-54	0.00735	≤4	PASS
				1000~12500	5387.32	-65.82	≤-47	0.26182	≤20	PASS
			2480	30~500	399.35	-82.77	≤-54	0.00528	≤4	PASS
				500~1000	836.71	-81.84	≤-54	0.00655	≤4	PASS
				1000~12500	5071.08	-65.89	≤-47	0.25763	≤20	PASS
	3DH5	Ant1	2402	30~500	182.32	-82.19	≤-54	0.00604	≤4	PASS
				500~1000	949.15	-80.38	≤-54	0.00916	≤4	PASS
				1000~12500	6979.41	-65.40	≤-47	0.28840	≤20	PASS
			2441	30~500	480.62	-82.97	≤-54	0.00505	≤4	PASS
				500~1000	977.64	-81.14	≤-54	0.00769	≤4	PASS
				1000~12500	5808.20	-65.79	≤-47	0.26363	≤20	PASS
			2480	30~500	464.89	-82.33	≤-54	0.00585	≤4	PASS
				500~1000	975.64	-81.80	≤-54	0.00661	≤4	PASS
				1000~12500	5387.32	-65.44	≤-47	0.28576	≤20	PASS
NTLV	DH5	Ant1	2402	30~500	379.86	-82.08	≤-54	0.00619	≤4	PASS
				500~1000	865.94	-81.68	≤-54	0.00679	≤4	PASS
				1000~12500	5887.54	-65.86	≤-47	0.25942	≤20	PASS
			2441	30~500	178.33	-82.63	≤-54	0.00546	≤4	PASS
				500~1000	966.14	-81.44	≤-54	0.00718	≤4	PASS
				1000~12500	5859.37	-65.66	≤-47	0.27164	≤20	PASS
			2480	30~500	181.62	-82.48	≤-54	0.00565	≤4	PASS
				500~1000	953.65	-81.70	≤-54	0.00676	≤4	PASS
				1000~12500	5510.94	-66.01	≤-47	0.25061	≤20	PASS
	3DH5	Ant1	2402	30~500	484.15	-82.26	≤-54	0.00594	≤4	PASS
				500~1000	954.15	-80.84	≤-54	0.00824	≤4	PASS
				1000~12500	6042.21	-65.49	≤-47	0.28249	≤20	PASS
			2441	30~500	193.83	-82.43	≤-54	0.00571	≤4	PASS
				500~1000	866.44	-81.78	≤-54	0.00664	≤4	PASS
				1000~12500	5913.42	-65.27	≤-47	0.29717	≤20	PASS
			2480	30~500	321.14	-82.48	≤-54	0.00565	≤4	PASS
				500~1000	900.17	-81.13	≤-54	0.00771	≤4	PASS
				1000~12500	5750.12	-65.42	≤-47	0.28708	≤20	PASS
NTHV	DH5	Ant1	2402	30~500	482.27	-82.56	≤-54	0.00555	≤4	PASS
				500~1000	842.20	-80.95	≤-54	0.00804	≤4	PASS
				1000~12500	5385.59	-65.95	≤-47	0.25410	≤20	PASS
			2441	30~500	175.27	-82.77	≤-54	0.00528	≤4	PASS
				500~1000	958.15	-81.53	≤-54	0.00703	≤4	PASS
				1000~12500	5838.10	-65.69	≤-47	0.26977	≤20	PASS
			2480	30~500	166.58	-82.00	≤-54	0.00631	≤4	PASS
				500~1000	781.73	-81.03	≤-54	0.00789	≤4	PASS
				1000~12500	6981.71	-64.52	≤-47	0.35318	≤20	PASS
	3DH5	Ant1	2402	30~500	160.01	-81.53	≤-54	0.00703	≤4	PASS
				500~1000	994.88	-81.15	≤-54	0.00767	≤4	PASS
				1000~12500	5871.44	-64.81	≤-47	0.33037	≤20	PASS
			2441	30~500	180.21	-82.49	≤-54	0.00564	≤4	PASS
				500~1000	985.13	-80.87	≤-54	0.00818	≤4	PASS
				1000~12500	5440.79	-66.13	≤-47	0.24378	≤20	PASS
			2480	30~500	452.44	-82.32	≤-54	0.00586	≤4	PASS
				500~1000	964.89	-81.53	≤-54	0.00703	≤4	PASS
				1000~12500	5610.98	-65.51	≤-47	0.28119	≤20	PASS

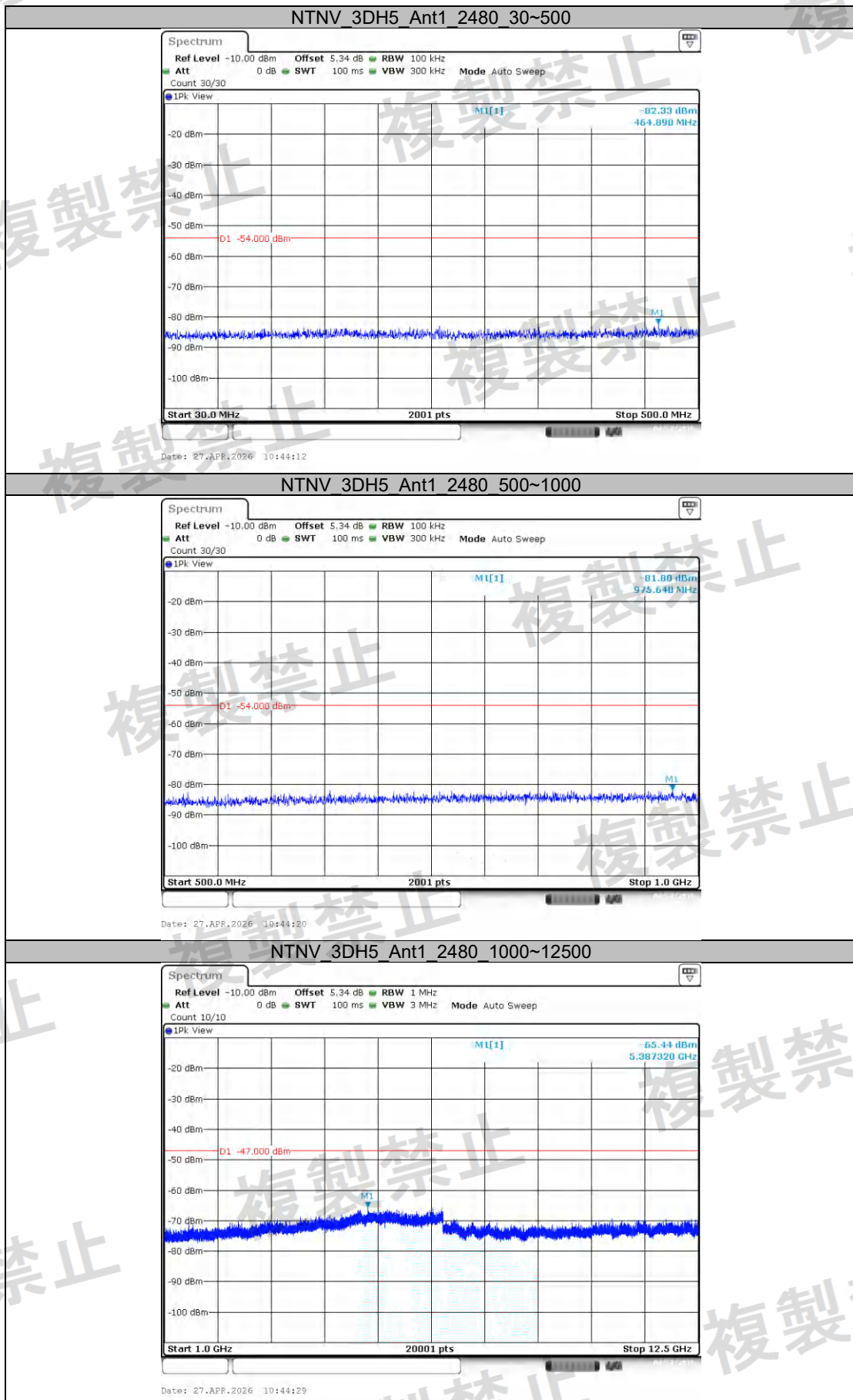


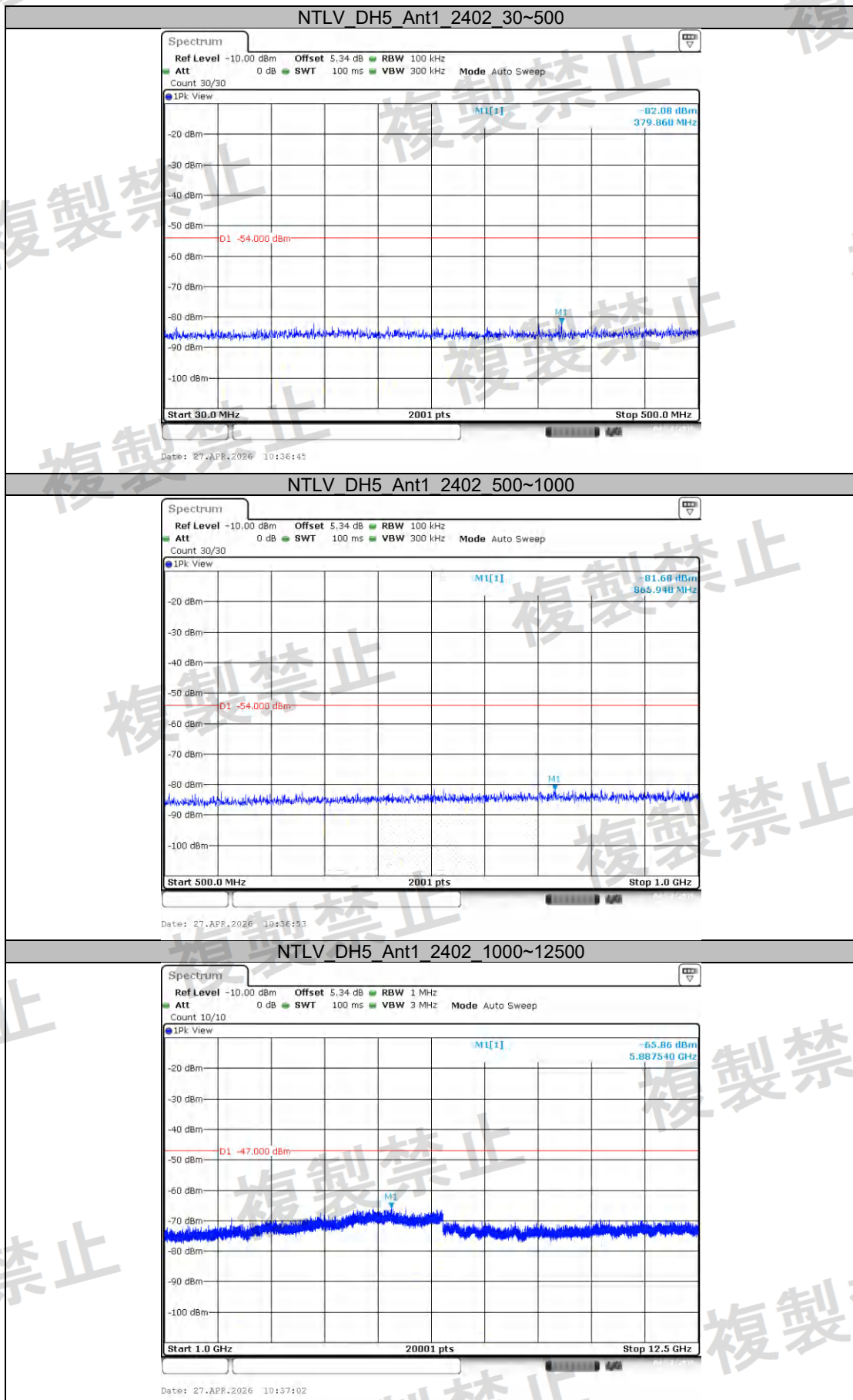


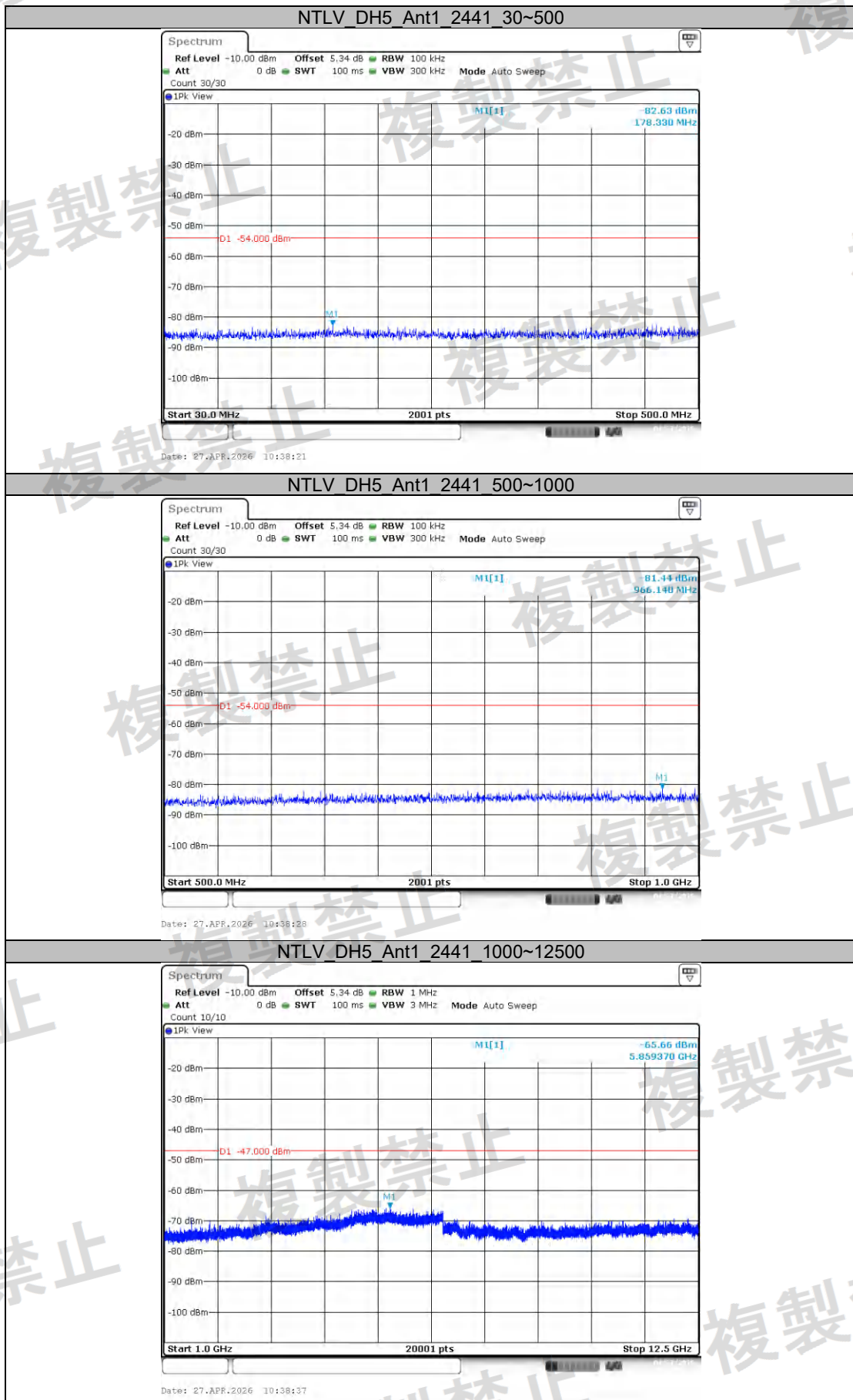


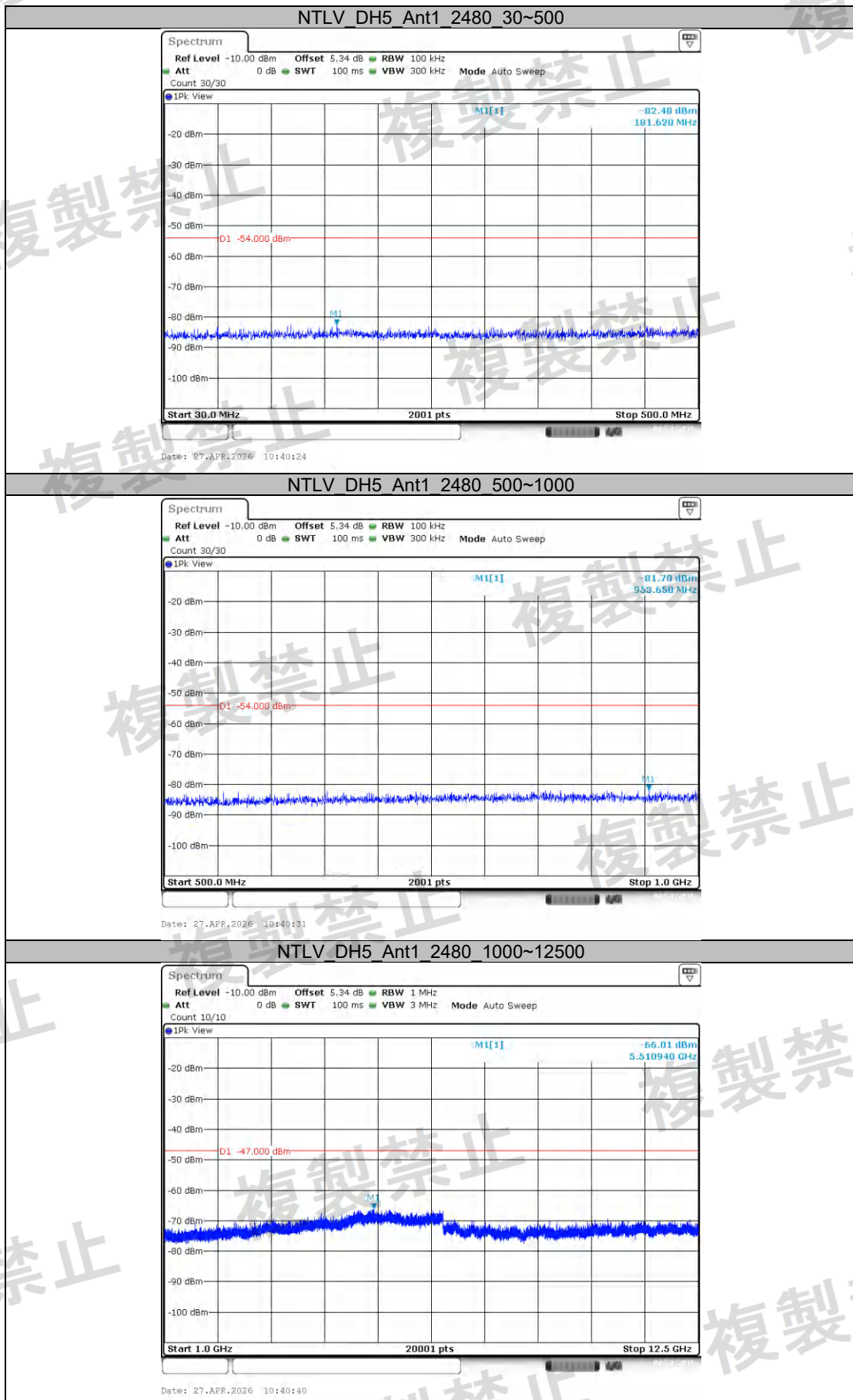


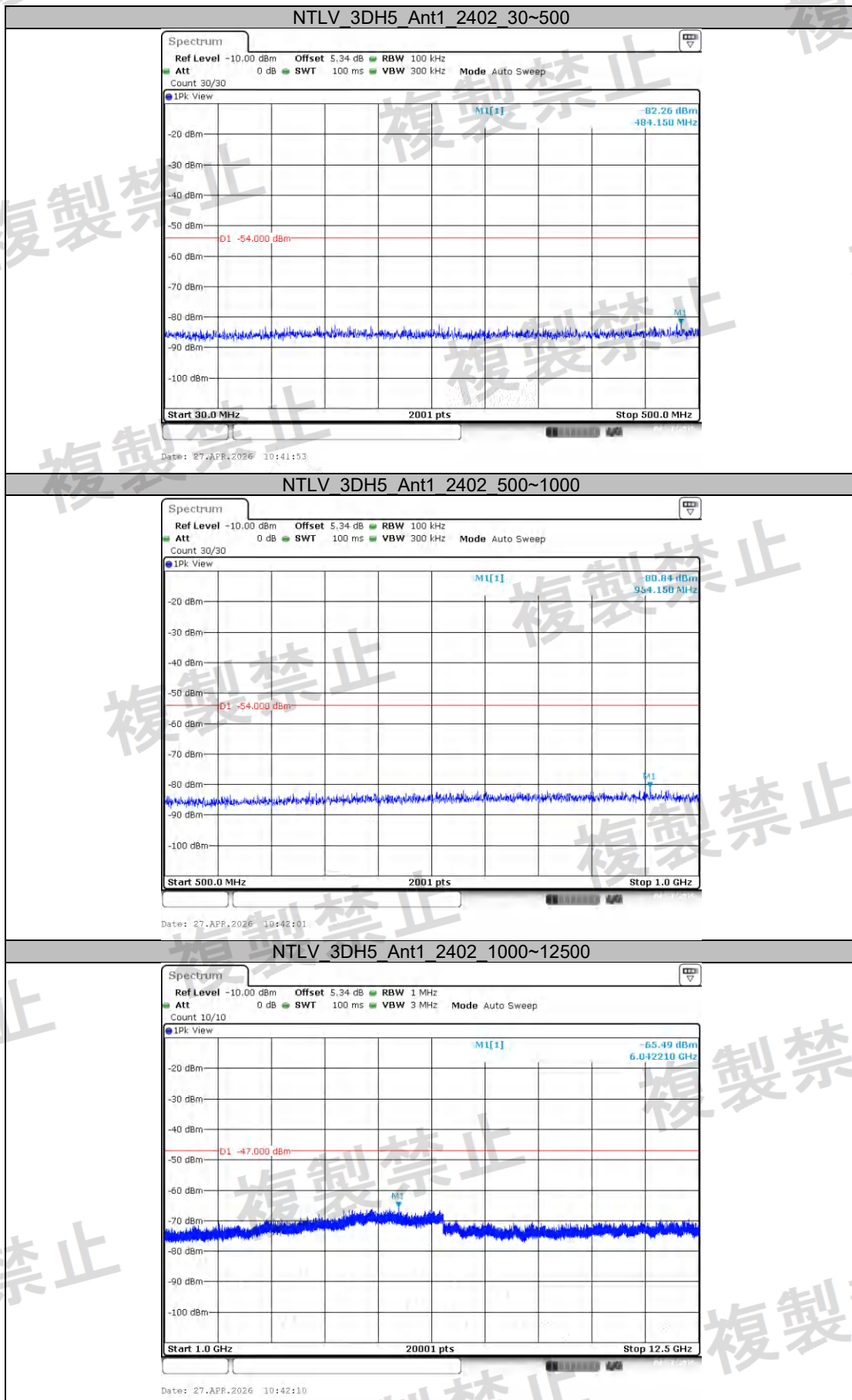


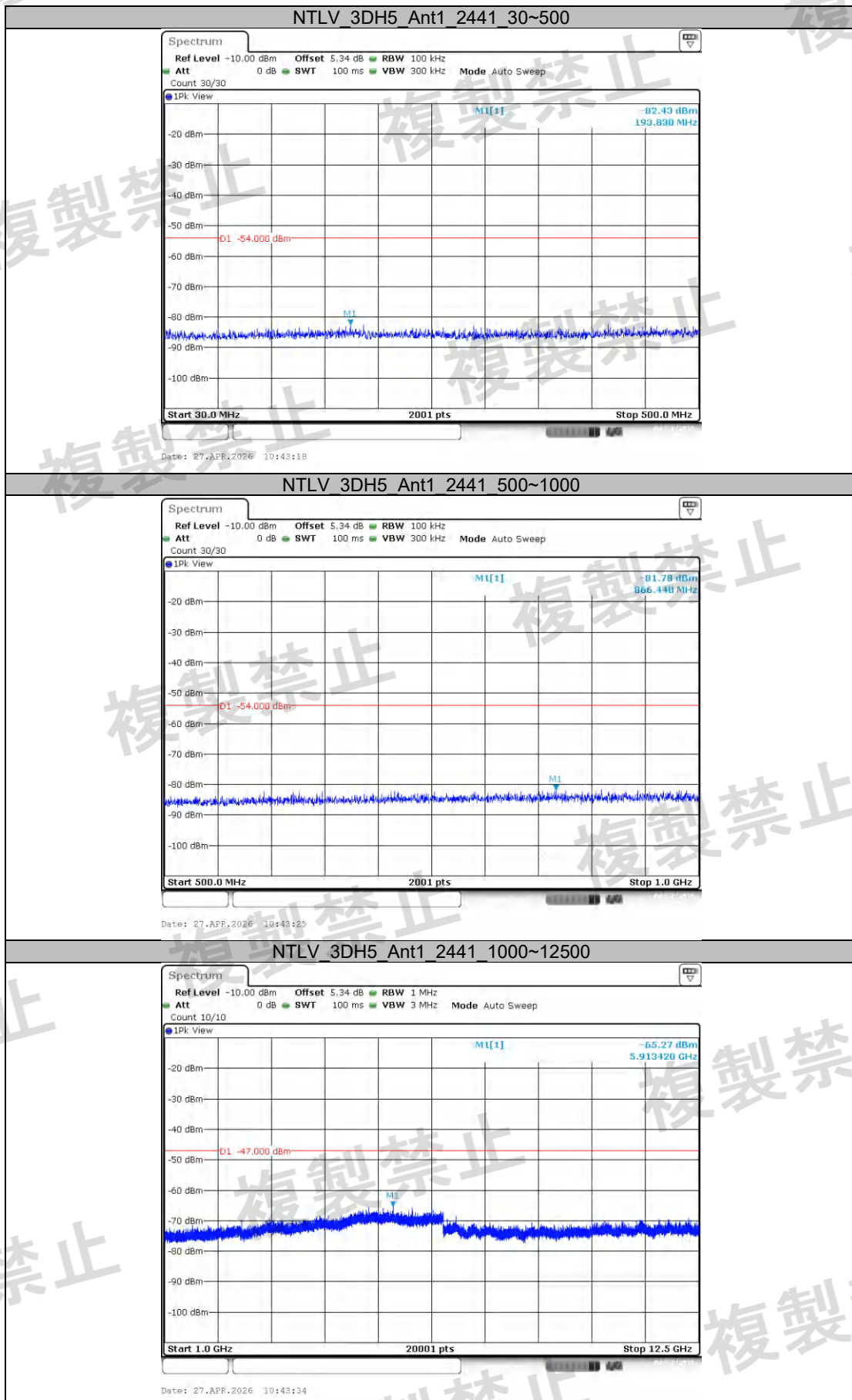


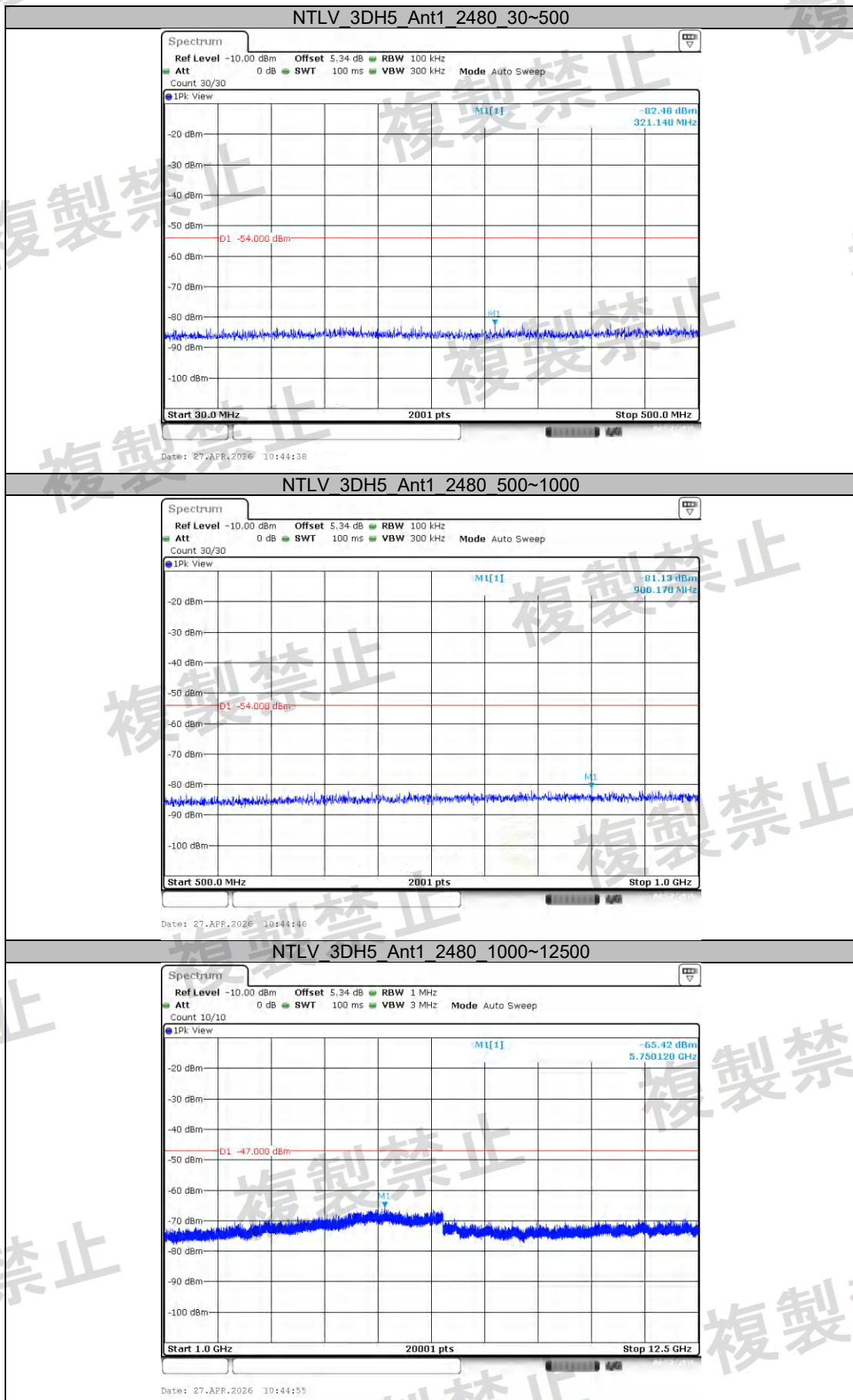


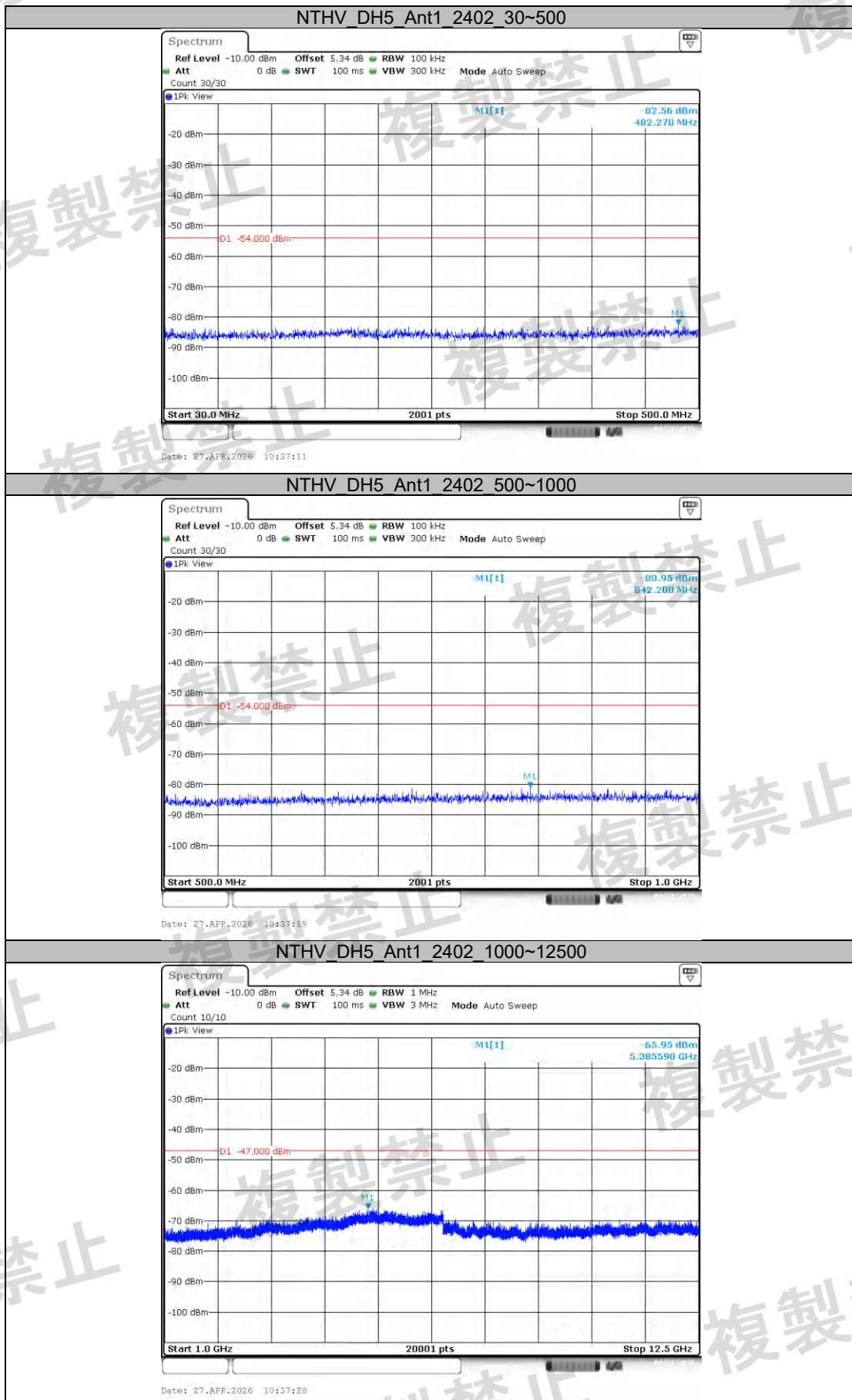


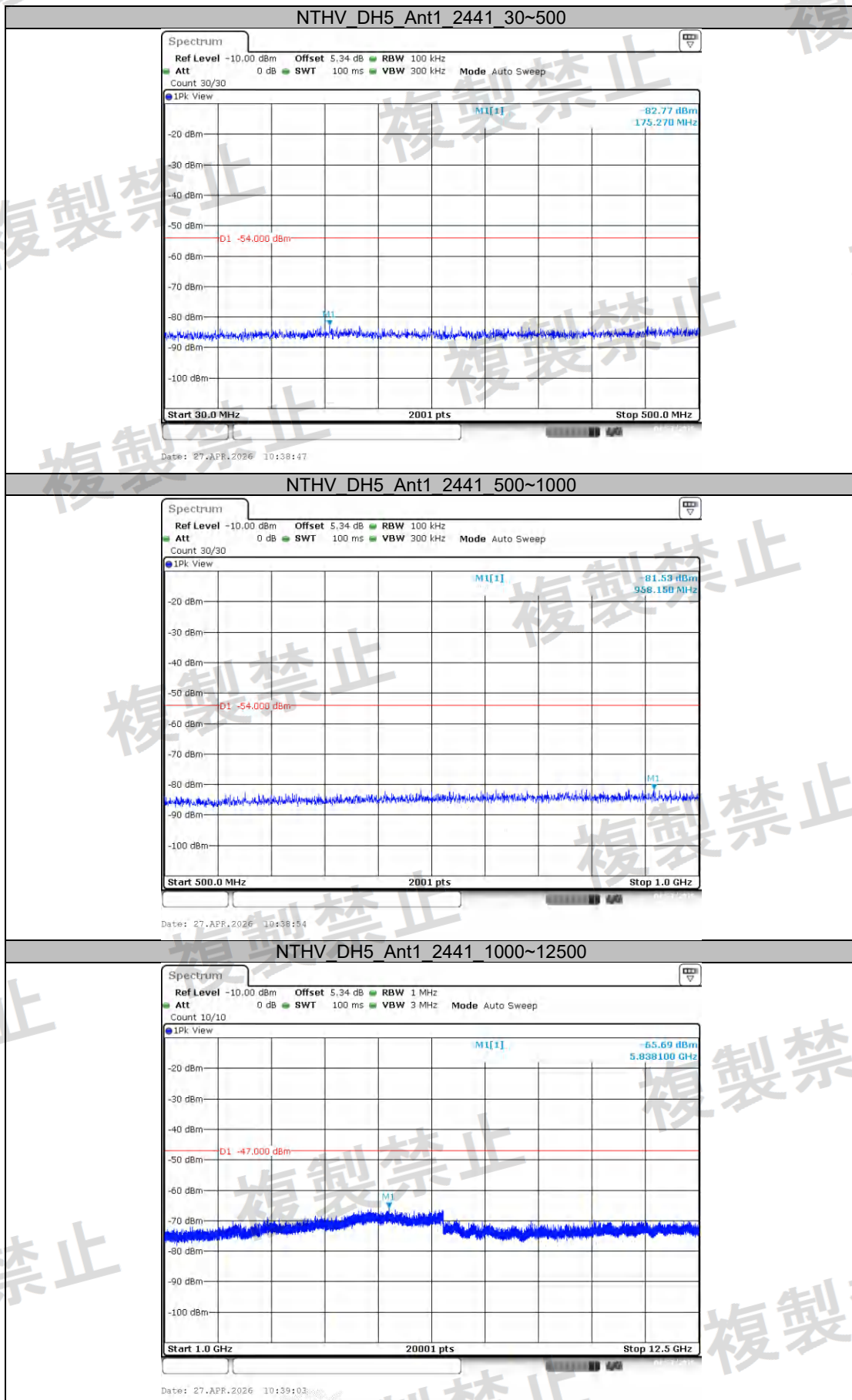


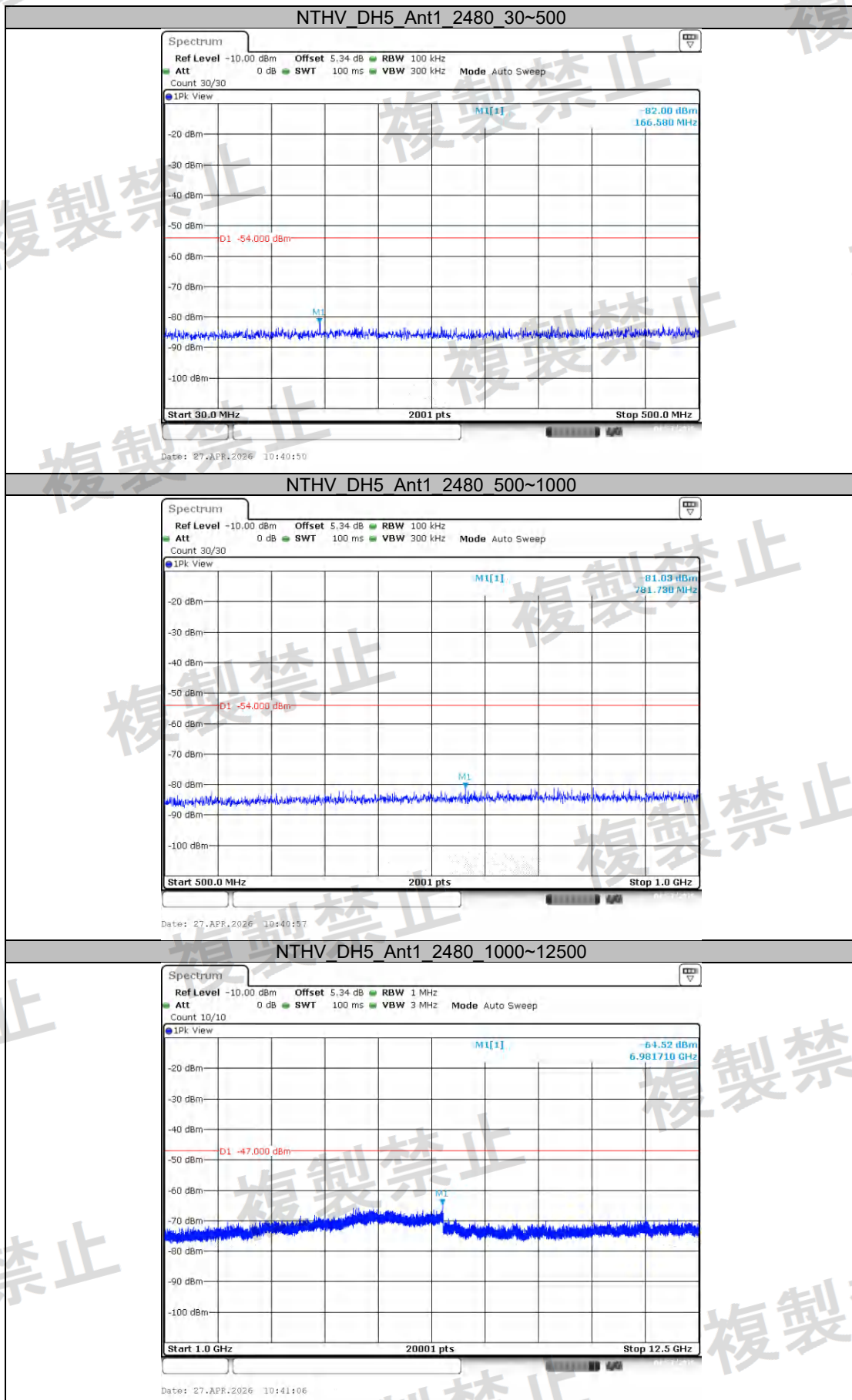


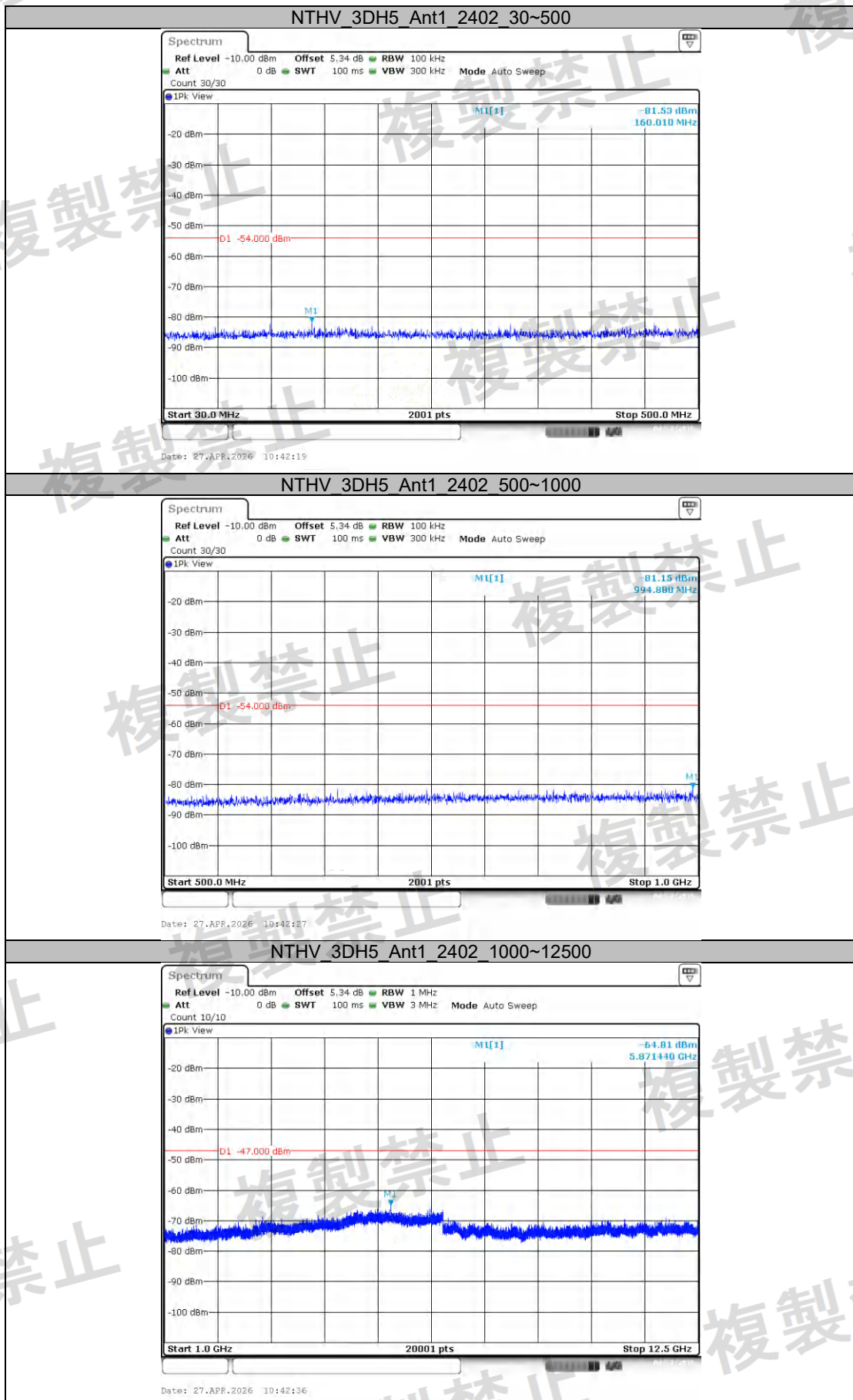


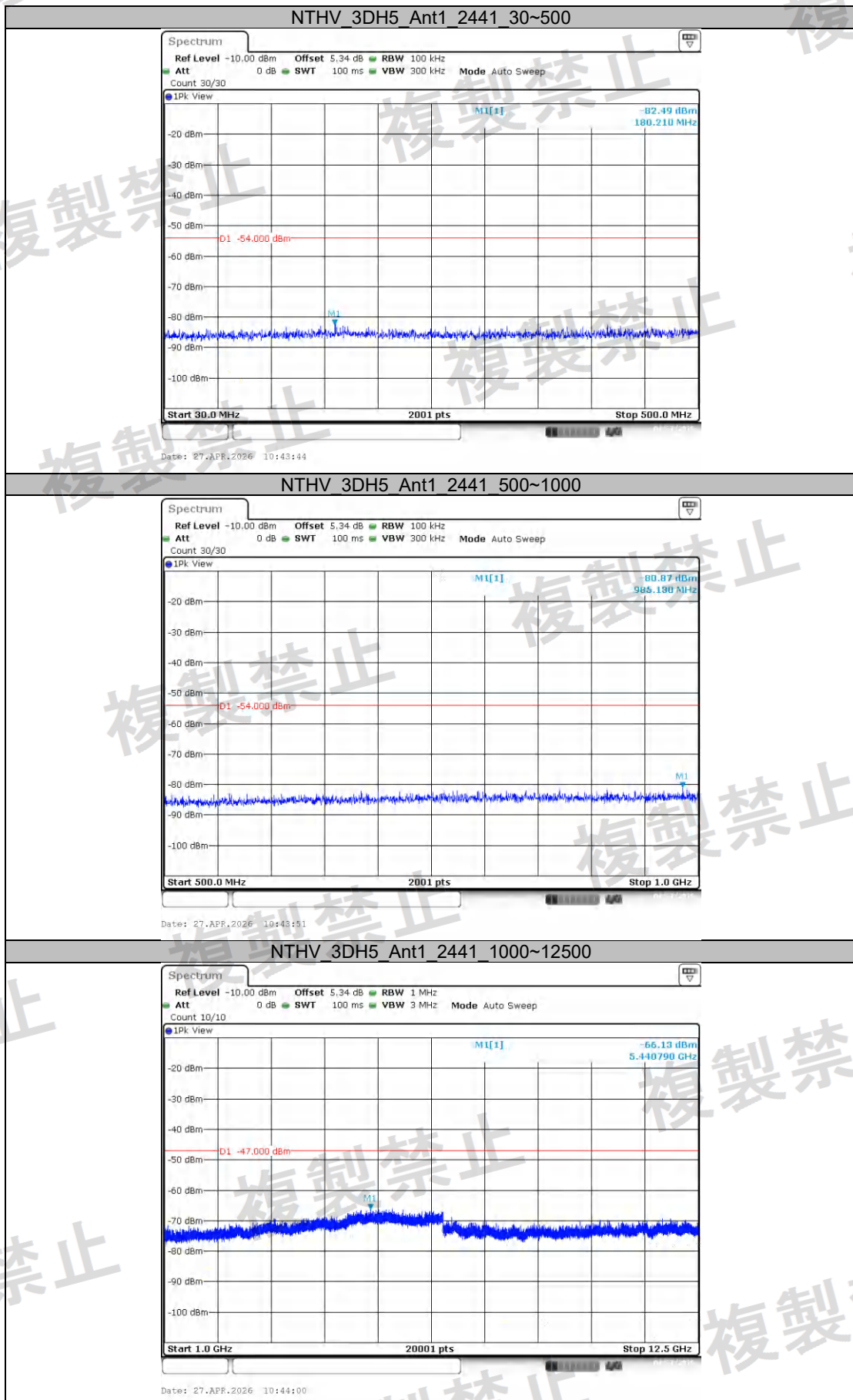


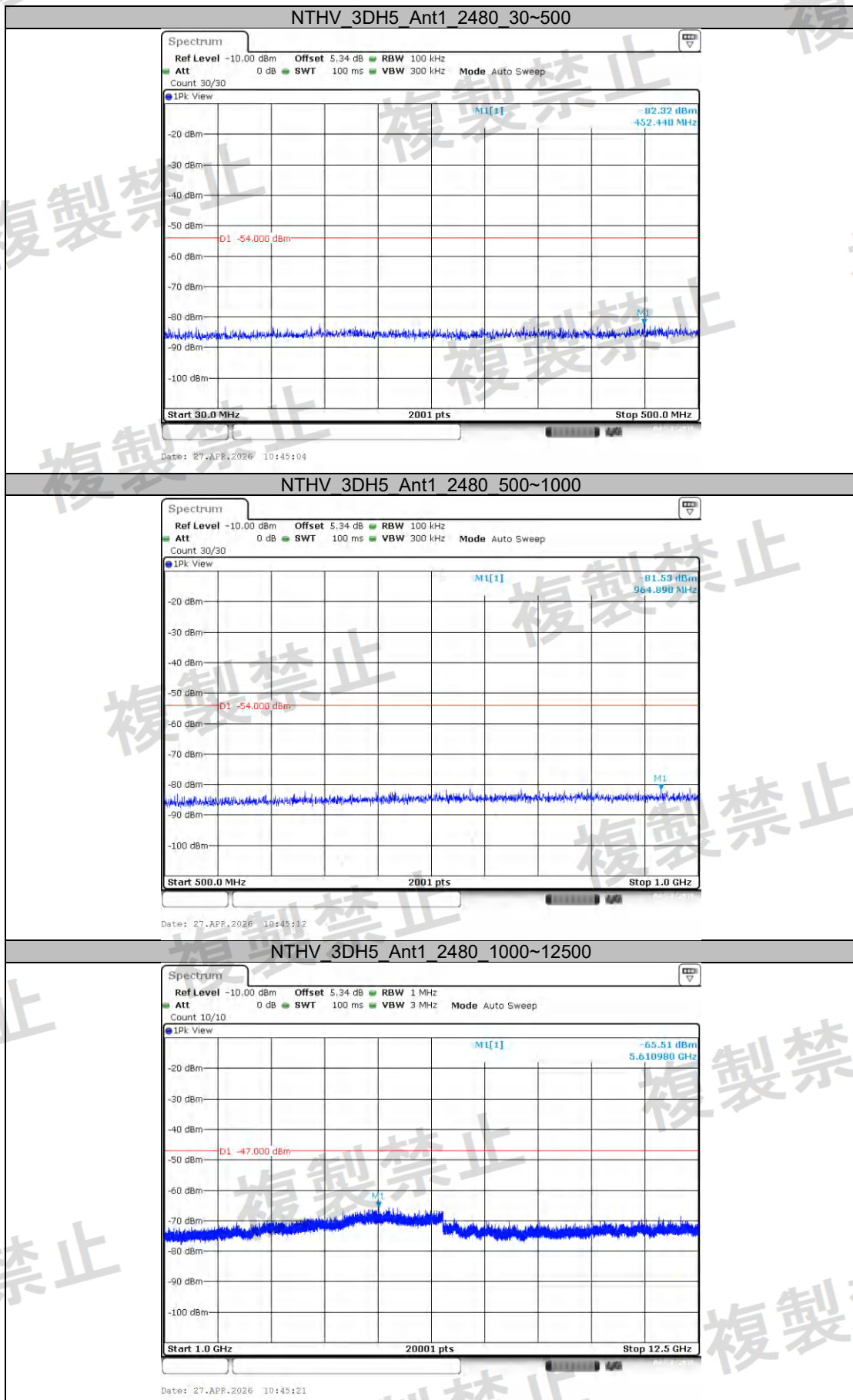












7 Appendix A.7: DWELL TIME

Normal Voltage	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH5	71.129	0.3601	0.7688	276.88	400
Voltage +10%	DH5	71.229	0.3607	0.7688	277.27	400
Voltage -10%	DH5	70.929	0.3591	0.7688	276.10	400

For GFSK< Enable AFH function>:

Normal Voltage	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	DH5	17.982	0.3596	0.7688	276.49	400
Voltage +10%	DH5	17.882	0.3576	0.7688	274.95	400
Voltage -10%	DH5	17.782	0.3556	0.7688	273.42	400

For 8DPSK:

Normal Voltage	Mode	SPREADING RATE	[Spreading rate/79]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	3DH5	71.229	0.3607	0.7694	277.49	400
Voltage +10%	3DH5	70.829	0.3586	0.7694	275.93	400
Voltage -10%	3DH5	71.129	0.3601	0.7694	277.10	400

For 8DPSK< Enable AFH function>:

Normal Voltage	Mode	SPREADING RATE	[Spreading rate/20]*0.4	Duty Ratio	Result (msec)	Limit (msec)
	3DH5	18.282	0.3656	0.7694	281.32	400
Voltage +10%	3DH5	18.082	0.3616	0.7694	278.25	400
Voltage -10%	3DH5	18.382	0.3676	0.7694	282.86	400

NOTE: For the test plots please refer to the below pages, only the worst case (Normal temperature) recorded.

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor
DH5	Ant1	2441	2.86	3.72	0.7688	76.88	1.14
3DH5	Ant1	2441	2.87	3.73	0.7694	76.94	1.14

