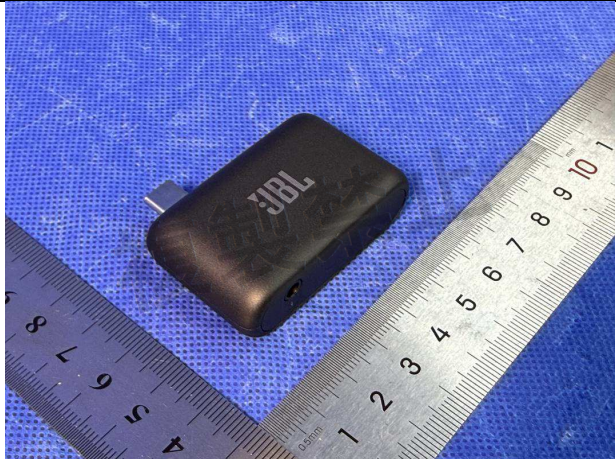


Prüfbericht-Nr.: Test report no.: CN26BOOM 003		Auftrags-Nr.: Order no.: 27201485		Page 1 of 15 Seite 1 von 15	
Kunden-Referenz-Nr.: Client reference no.: N/A		Auftragsdatum: Order date: 2026-01-09			
Auftraggeber: Client: Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States					
Prüfgegenstand: Test item: Partybox Wireless Mic					
Bezeichnung / Typ-Nr.: Identification / Type no.: EASYSING MIC MINI TM (Trademark: JBL)					
Auftrags-Inhalt: Order content: Type test					
Prüfgrundlage: Test specification: Article 2 Section 1 Item 19, Radio Equipment Regulation: Article 49-20 MIC notice No. 88 Appendix No. 43 (Test method)					
Wareneingangsdatum: Date of sample receipt: 2026-01-05					
Prüfmuster-Nr.: Test sample no.: A004179571					
Prüfzeitraum: Testing period: 2026-01-05 – 2026-01-29					
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: 2026-03-23 Signed by: Harry W. C. Wu		Ausstellungsdatum: Issue date: 2026-03-23 Signed by: Alex Lan			
Position / Stellung: Project Manager		Position / Stellung: Authorizer			
Sonstiges / Other: MARKING NAME: EASYSING MIC MINI (EASYSING MIC MINI *1, EASYSING MIC MINI TM*1, EASYSING MIC MINI CC1*1) EASYSING MIC MINI DUO (EASYSING MIC MINI *2, EASYSING MIC MINI TM*1, EASYSING MIC MINI CC2*1) This test report is for Bluetooth Low Energy function of EASYSING MIC MINI TM.					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet		* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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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.</i></p> <p><i>Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i></p> |
| 2 | <p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i></p> |
| 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)
EXA Signal Analyzer	Keysight	N9010B	MY60241175	GRGTEST	23.09.2025	22.09.2026	24-2-4-2-(ha)
Power Meter	R&S	NRP2	107105	GRGTEST	30.10.2025	29.10.2026	24-2-4-2-(ha)
Power Sensor	R&S	NRP-Z81	105677	GRGTEST	23.09.2025	22.09.2026	24-2-4-2-(ha)
DC Power Supply	Keysight	E3642A	MY61276100	GRGTEST	22.02.2025	21.02.2026	24-2-4-2-(ha)
Digital Multi Meter	FLUKE	F15B	44350845WS	GRGTEST	24.02.2025	23.02.2026	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

2 GENERAL PRODUCT INFORMATION

2.1 PRODUCT FUNCTION AND INTENDED USE

The product is a Partybox Wireless Mic, which consist of one or two microphones, a Dongle and a charging case. The microphones support 2.4GHz SRD wireless technology and the Dongle support Bluetooth dual mode & 2.4GHz SRD wireless technologies.

Two microphones are identical in electrical circuit design and PCB layout.

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:	Partybox Wireless Mic
Type Designation:	EASYSING MIC MINI TM
Trademark:	JBL
Operating Voltage	5Vdc;0.5A, Li-ion battery: 3.7Vdc, 350mAh, 1.295Wh
Extreme Temperature Range	0°C to +40°C
Technical Specification of 2.4GHz SRD	
Characteristic	Description
Operating Frequency band	2404 ~ 2478 MHz
Channel Number	32 channels
Channel separation	2MHz
Modulation	GFSK
Antenna Type	Integral antenna
Antenna Gain	1.74 dBi (Provided by the Client)
Technical Specification of Classical Bluetooth	
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	Integral antenna
Antenna Gain	1.36 dBi (Provided by the Client)

Technical Specification of Bluetooth Low Energy	
Operating Frequency band	2402 – 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	Integral antenna
Antenna Gain	1.36 dBi (Provided by the Client)

Table 3: RF Channel and Frequency of Classical Bluetooth (BR & 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

Table 5: RF Channel and Frequency of 2.4GHz SRD

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

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2.3 TEST CONDITIONS

Test conditions	Voltage (Vac)
V_{normal}	3.70
V_{max}	4.07
V_{min}	3.33

Test conditions	Unit
Temperature	23.5 deg °C
Humidity	48.8 %

2.4 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 5: 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
Integral antenna	N/A	1.36 dBi

2.5.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).

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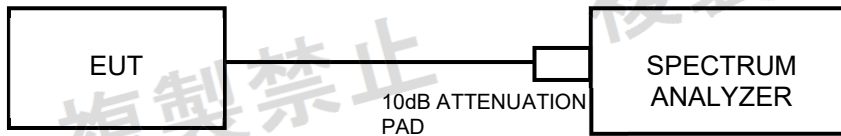
3 TEST RESULTS

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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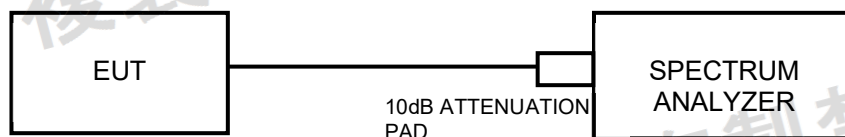
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3.2 OCCUPIED BANDWIDTH MEASUREMENT (99% POWER BANDWIDTH)

3.2.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

ITEM	LIMIT	REMARK
Occupied bandwidth	<26MHz	For 802.11b, g & 802.11n (HT20)
Occupied bandwidth	<26MHz	For BT-LE (GFSK)

3.2.2 TEST SETUP



3.2.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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3.3 ANTENNA POWER MEASUREMENT

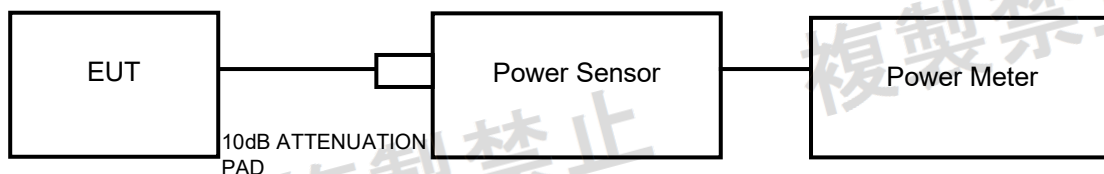
3.3.1 LIMITS OF ANTENNA POWER

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max)	
			Omni-directional case	Directional case
DS.OFDM (Narrow-Band)	2,400 – 2,4835 MHz	10mW/MHz	12.14 dBm/MHz (16.367 mW/MHz)	22.14 dBm/MHz (163.682 mW/MHz)
OFDM (Wide-Band)	2,400 – 2,4835 MHz	5mW/MHz	9.13dBm/MHz (8.185mW/MHz)	19.13dBm/MHz (81.846mW/MHz)
DTS	2,400 – 2,4835 MHz	10mW	12.14 dBm 16.367 mW	22.14 dBm 163.682 mW

Tolerance of antenna power shall be +20% (upper value).

According article 49.20 f(2) The angular width of the principal radiation in the horizontal and vertical planes of the transmitting antenna shall not exceed the value obtained by the following expression. $360/A$ degree
A represents the value determined by dividing an equivalent isotropically radiated power by the value obtained by applying an antenna power with the mean power of 10 mW to the transmitting antenna with its absolute gain being 2.14 dB, and shall be 1 when it is lower than 1

3.3.2 TEST SETUP



3.3.3 TEST RESULTS

For the measurement records, refer to the appendix A.

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Test report no.:

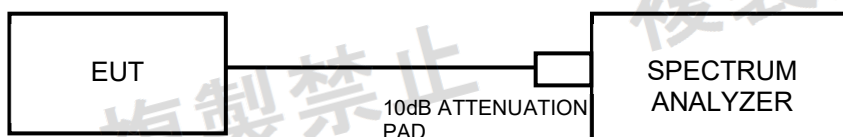
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3.4 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

3.4.1 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	$\leq 2.5\mu\text{W/MHz}$

3.4.2 TEST SETUP



3.4.3 TEST RESULT

For the measurement records, refer to the appendix A.

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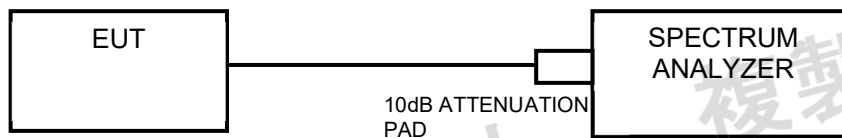
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3.5 SPURIOUS EMISSIONS FOR RECEIVER

3.5.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

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

3.5.2 TEST SETUP



3.5.3 TEST RESULT

For the measurement records, refer to the appendix A.

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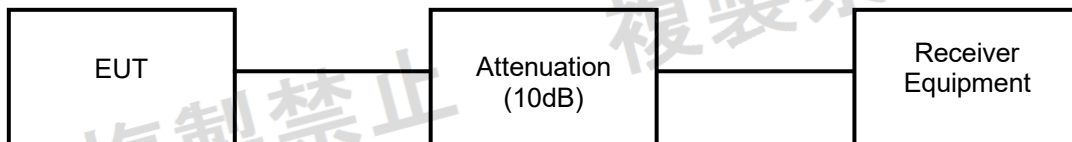
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3.6 INTERFERENCE PREVENTION FUNCTION

3.6.1 LIMITS OF Interference Prevention Function

N/A

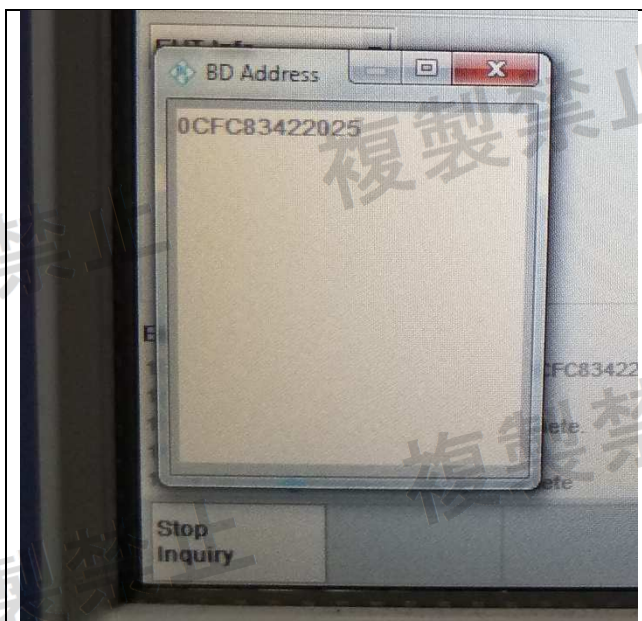
3.6.2 TEST SETUP



3.6.3 TEST RESULTS

ENVIRONMENTAL CONDITIONS	21.2 deg.C, 47.2% RH
LINK MODE	TEST RESULT
BT-LE	PASS

EUT connected to CMW270, MAC address as below:

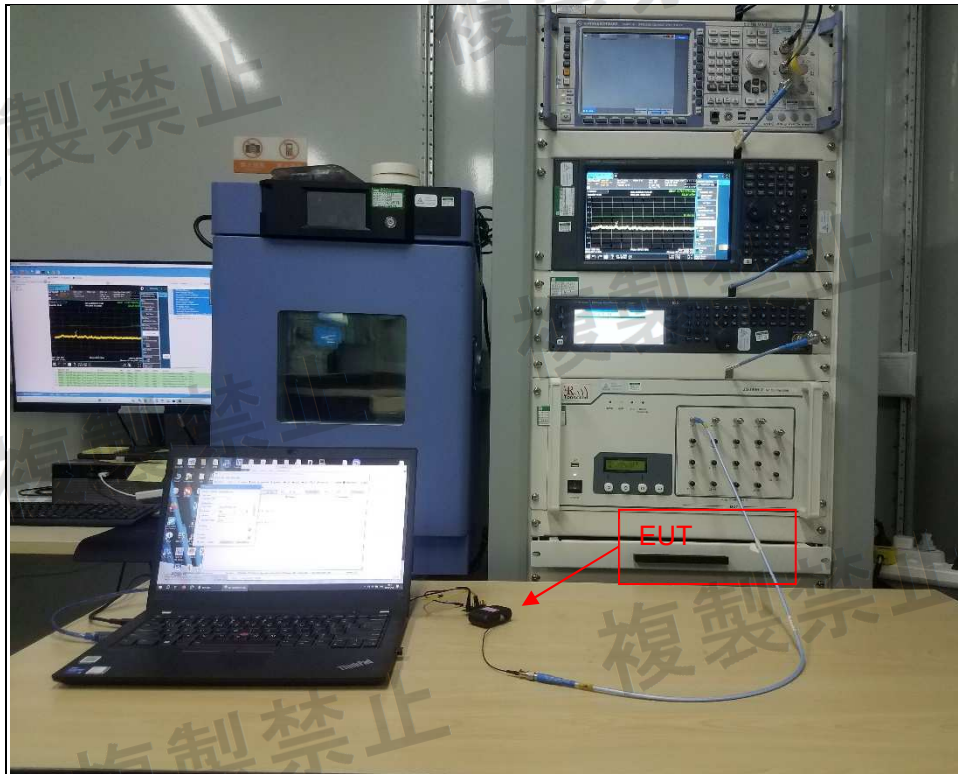


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4 PHOTOGRAPHS OF THE TEST CONFIGURATION



---END---

Appendix A

Test results of Bluetooth Low Energy

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3	APPENDIX A.3 : ANTENNA POWER	13
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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.

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	CW	Ant1	2402	19.85845	±50	PASS
			2440	19.79508	±50	PASS
			2480	19.83871	±50	PASS
NTLV	CW	Ant1	2402	19.85845	±50	PASS
			2440	19.79508	±50	PASS
			2480	19.83871	±50	PASS
NTHV	CW	Ant1	2402	19.85845	±50	PASS
			2440	19.79508	±50	PASS
			2480	19.71774	±50	PASS



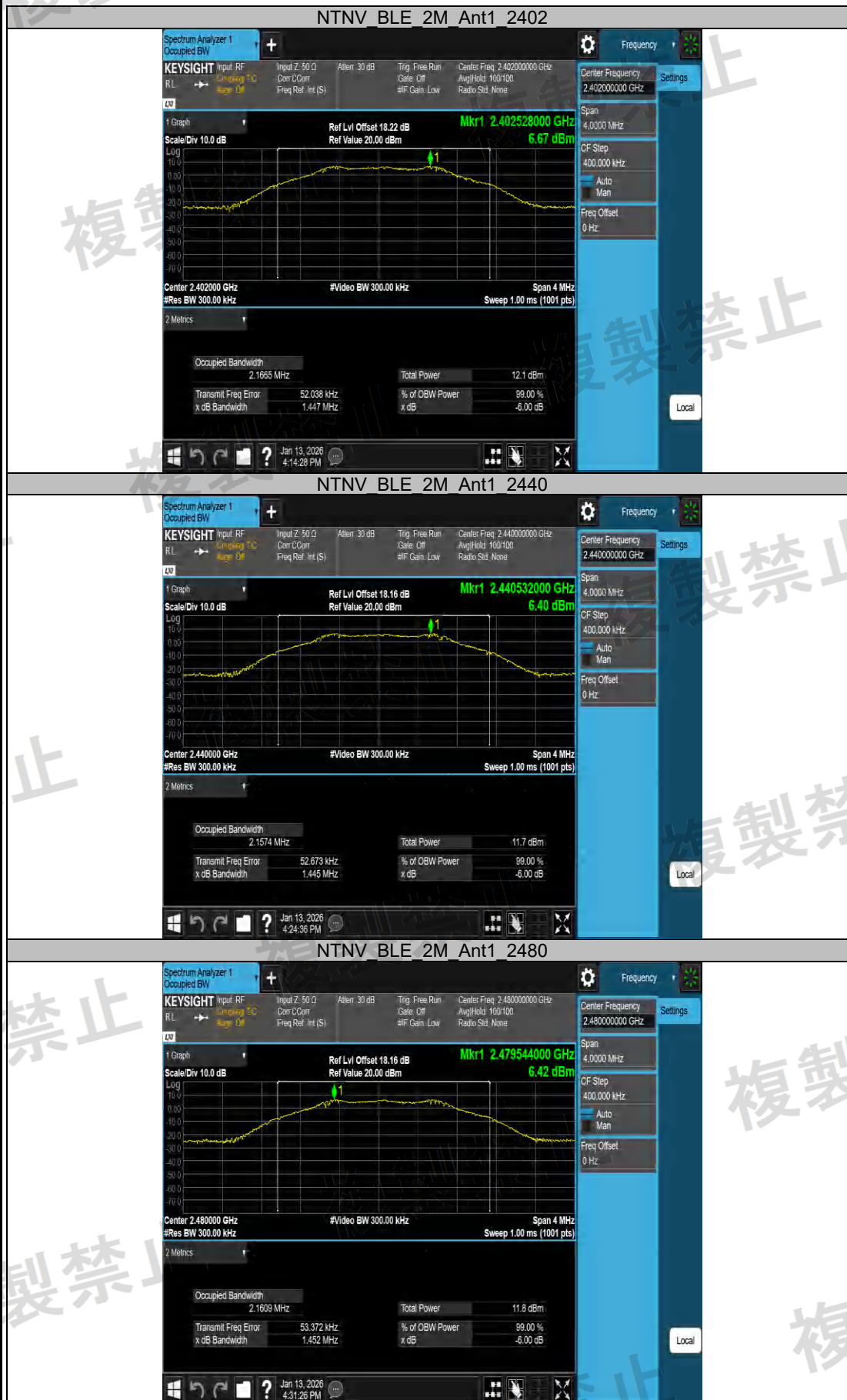




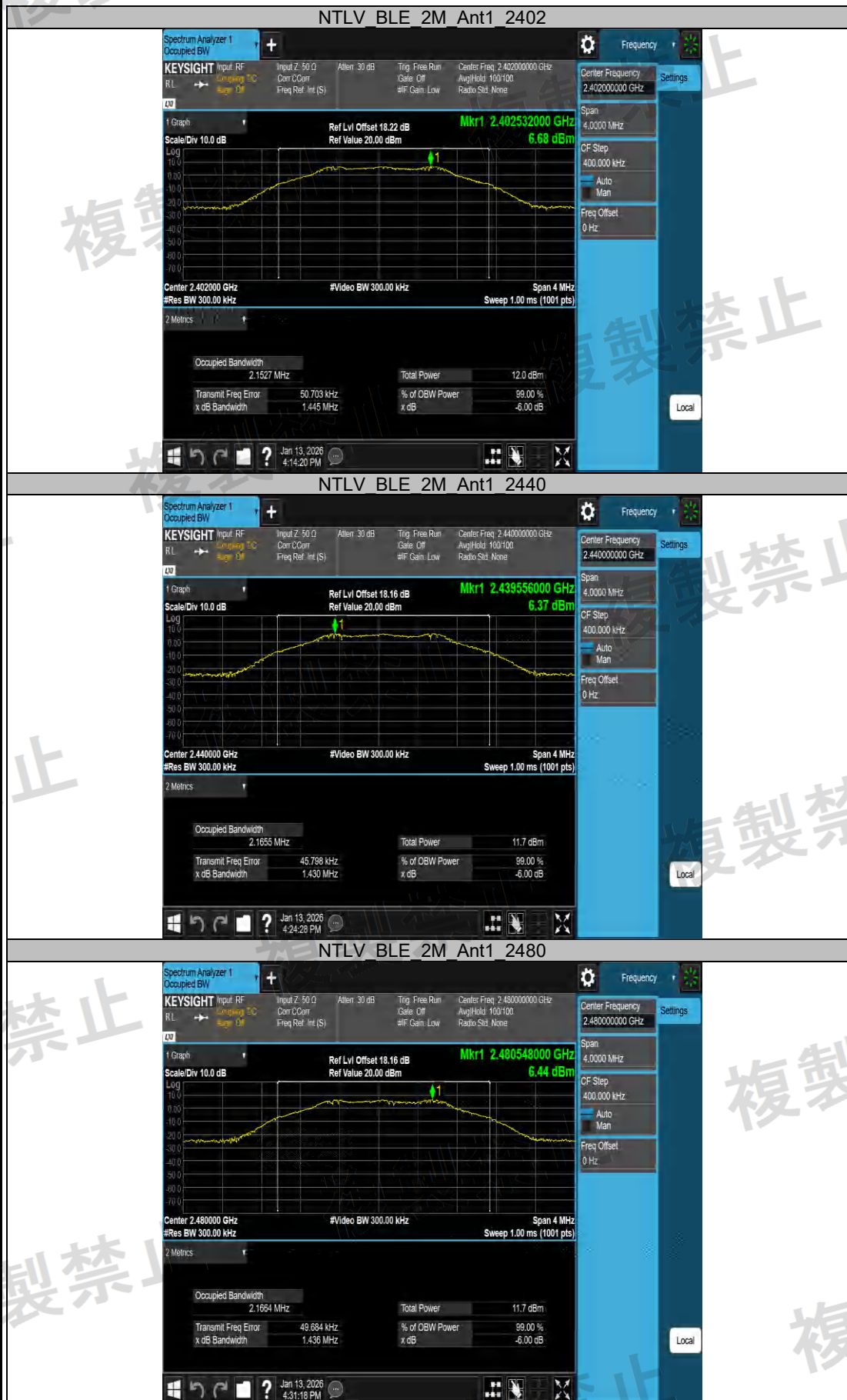
2 Appendix A.2 : OCCUPIED BANDWIDTH

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.238	≤26	PASS
			2440	1.238	≤26	PASS
			2480	1.242	≤26	PASS
	BLE_2M	Ant1	2402	2.167	≤26	PASS
			2440	2.157	≤26	PASS
			2480	2.161	≤26	PASS
NTLV	BLE_1M	Ant1	2402	1.240	≤26	PASS
			2440	1.238	≤26	PASS
			2480	1.238	≤26	PASS
	BLE_2M	Ant1	2402	2.153	≤26	PASS
			2440	2.166	≤26	PASS
			2480	2.166	≤26	PASS
NTHV	BLE_1M	Ant1	2402	1.239	≤26	PASS
			2440	1.239	≤26	PASS
			2480	1.241	≤26	PASS
	BLE_2M	Ant1	2402	2.162	≤26	PASS
			2440	2.164	≤26	PASS
			2480	2.165	≤26	PASS

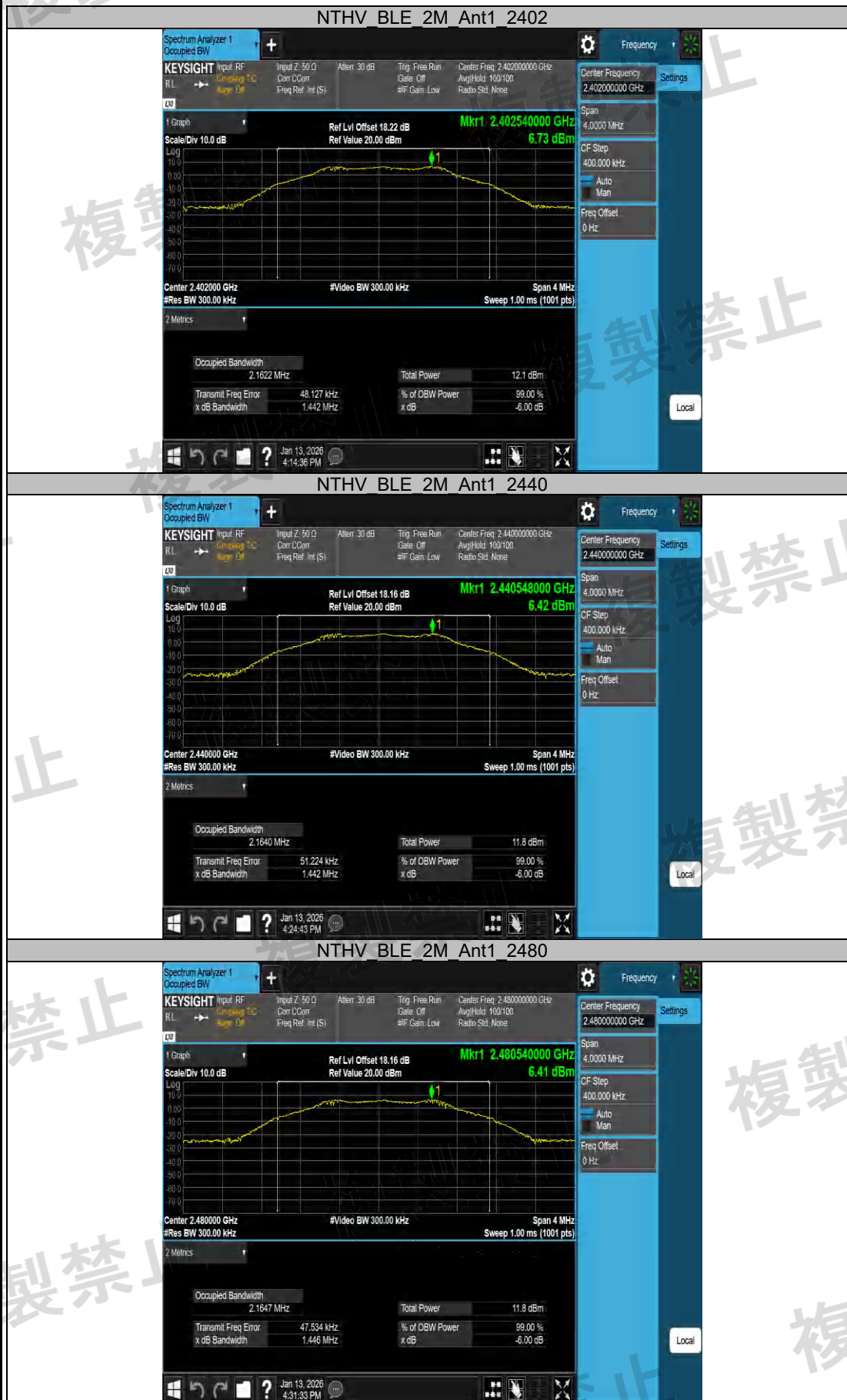












3 Appendix A.3 : ANTENNA POWER

Antenna Power							
TestCondition	TestMode	Antenna	Freq(MHz)	Result(dBm)	Result(mW)	Limit(mW)	Verdict
NTNV	BLE_1M	Ant1	2402	7.00	5.0119	≤10	PASS
			2440	7.01	5.0234	≤10	PASS
			2480	6.76	4.7424	≤10	PASS
	BLE_2M	Ant1	2402	6.95	4.9545	≤10	PASS
			2440	6.93	4.9317	≤10	PASS
			2480	6.69	4.6666	≤10	PASS
NTLV	BLE_1M	Ant1	2402	7.00	5.0119	≤10	PASS
			2440	7.02	5.0350	≤10	PASS
			2480	6.76	4.7424	≤10	PASS
	BLE_2M	Ant1	2402	6.96	4.9659	≤10	PASS
			2440	6.98	4.9888	≤10	PASS
			2480	6.69	4.6666	≤10	PASS
NTHV	BLE_1M	Ant1	2402	7.00	5.0119	≤10	PASS
			2440	7.02	5.0350	≤10	PASS
			2480	6.76	4.7424	≤10	PASS
	BLE_2M	Ant1	2402	6.96	4.9659	≤10	PASS
			2440	6.93	4.9317	≤10	PASS
			2480	6.69	4.6666	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq(MHz)	Power (mW)	RatedPower (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_1M	Ant1	2402	5.0119	10	-49.88	+20	PASS
			2440	5.0234	10	-49.77	+20	PASS
			2480	4.7424	10	-52.58	+20	PASS
	BLE_2M	Ant1	2402	4.9545	10	-50.45	+20	PASS
			2440	4.9317	10	-50.68	+20	PASS
			2480	4.6666	10	-53.33	+20	PASS
NTLV	BLE_1M	Ant1	2402	5.0119	10	-49.88	+20	PASS
			2440	5.0350	10	-49.65	+20	PASS
			2480	4.7424	10	-52.58	+20	PASS
	BLE_2M	Ant1	2402	4.9659	10	-50.34	+20	PASS
			2440	4.9888	10	-50.11	+20	PASS
			2480	4.6666	10	-53.33	+20	PASS
NTHV	BLE_1M	Ant1	2402	5.0119	10	-49.88	+20	PASS
			2440	5.0350	10	-49.65	+20	PASS
			2480	4.7424	10	-52.58	+20	PASS
	BLE_2M	Ant1	2402	4.9659	10	-50.34	+20	PASS
			2440	4.9317	10	-50.68	+20	PASS
			2480	4.6666	10	-53.33	+20	PASS

EIRP							
TestCondition	TestMode	Antenna	Freq(MHz)	Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
NTNV	BLE_1M	Ant1	2402	7.00	8.36	≤12.14	PASS
			2440	7.01	8.37	≤12.14	PASS
			2480	6.76	8.12	≤12.14	PASS
	BLE_2M	Ant1	2402	6.95	8.31	≤12.14	PASS
			2440	6.93	8.29	≤12.14	PASS
			2480	6.69	8.05	≤12.14	PASS
NTLV	BLE_1M	Ant1	2402	7.00	8.36	≤12.14	PASS
			2440	7.02	8.38	≤12.14	PASS
			2480	6.76	8.12	≤12.14	PASS
	BLE_2M	Ant1	2402	6.96	8.32	≤12.14	PASS
			2440	6.98	8.34	≤12.14	PASS
			2480	6.69	8.05	≤12.14	PASS
NTHV	BLE_1M	Ant1	2402	7.00	8.36	≤12.14	PASS
			2440	7.02	8.37	≤12.14	PASS
			2480	6.76	8.12	≤12.14	PASS
	BLE_2M	Ant1	2402	6.96	8.31	≤12.14	PASS
			2440	6.93	8.29	≤12.14	PASS
			2480	6.69	8.05	≤12.14	PASS

4 Appendix A.4: SPURIOUS EMISSIONS FOR TRANSMITTER

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm /MHz]	Limit [dBm /MHz]	Result [µW /MHz]	Limit [µW /MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	30~500	183.46	-48.95	≤-26	0.01274	≤2.5	PASS
				500~1000	600.88	-56.72	≤-26	0.00213	≤2.5	PASS
				1000~2387	2051.00	-54.05	≤-26	0.00394	≤2.5	PASS
				2387~2400	2399.99	-29.91	≤-16	1.02094	≤25	PASS
				2483.5~2496.5	2495.01	-43.52	≤-16	0.04446	≤25	PASS
				2496.5~13000	4804.64	-51.88	≤-26	0.00649	≤2.5	PASS
			2440	30~500	182.40	-48.07	≤-26	0.01560	≤2.5	PASS
				500~1000	893.75	-56.61	≤-26	0.00218	≤2.5	PASS
				1000~2387	2232.35	-53.79	≤-26	0.00418	≤2.5	PASS
				2387~2400	2397.94	-44.67	≤-16	0.03412	≤25	PASS
				2483.5~2496.5	2494.12	-44.10	≤-16	0.03890	≤25	PASS
				2496.5~13000	4879.74	-51.63	≤-26	0.00687	≤2.5	PASS
			2480	30~500	173.00	-48.18	≤-26	0.01521	≤2.5	PASS
				500~1000	892.00	-56.03	≤-26	0.00249	≤2.5	PASS
				1000~2387	1970.90	-53.67	≤-26	0.00430	≤2.5	PASS
				2387~2400	2389.27	-44.50	≤-16	0.03548	≤25	PASS
				2483.5~2496.5	2483.84	-42.75	≤-16	0.05309	≤25	PASS
				2496.5~13000	4959.57	-51.95	≤-26	0.00638	≤2.5	PASS
	BLE_2M	Ant1	2402	30~500	164.66	-49.04	≤-26	0.01247	≤2.5	PASS
				500~1000	577.38	-55.89	≤-26	0.00258	≤2.5	PASS
				1000~2387	2109.95	-53.64	≤-26	0.00433	≤2.5	PASS
				2387~2400	2400	-15.40	≤-16	28.84032	≤25	See below
				2483.5~2496.5	2488.47	-44.31	≤-16	0.03707	≤25	PASS
				2496.5~13000	3770.05	-54.09	≤-26	0.00390	≤2.5	PASS
			2440	30~500	185.69	-48.99	≤-26	0.01262	≤2.5	PASS
				500~1000	918.00	-56.67	≤-26	0.00215	≤2.5	PASS
				1000~2387	2375.90	-53.47	≤-26	0.00450	≤2.5	PASS
				2387~2400	2395.96	-44.61	≤-16	0.03459	≤25	PASS
				2483.5~2496.5	2488.54	-44.06	≤-16	0.03926	≤25	PASS
				2496.5~13000	4879.22	-52.36	≤-26	0.00581	≤2.5	PASS
			2480	30~500	208.48	-48.33	≤-26	0.01469	≤2.5	PASS
				500~1000	704.00	-54.98	≤-26	0.00318	≤2.5	PASS
				1000~2387	2073.54	-53.78	≤-26	0.00419	≤2.5	PASS
				2387~2400	2398.34	-44.44	≤-16	0.03597	≤25	PASS
				2483.5~2496.5	2483.50	-40.16	≤-16	0.09638	≤25	PASS
				2496.5~13000	4961.15	-52.41	≤-26	0.00574	≤2.5	PASS
NTLV	BLE_1M	Ant1	2402	30~500	199.32	-48.72	≤-26	0.01343	≤2.5	PASS
				500~1000	582.00	-56.63	≤-26	0.00217	≤2.5	PASS
				1000~2387	2342.62	-53.74	≤-26	0.00423	≤2.5	PASS
				2387~2400	2400.00	-29.92	≤-16	1.01859	≤25	PASS
				2483.5~2496.5	2493.46	-44.05	≤-16	0.03936	≤25	PASS
				2496.5~13000	4803.59	-52.95	≤-26	0.00507	≤2.5	PASS
			2440	30~500	193.44	-48.99	≤-26	0.01262	≤2.5	PASS
				500~1000	731.88	-56.63	≤-26	0.00217	≤2.5	PASS
				1000~2387	2163.35	-53.56	≤-26	0.00441	≤2.5	PASS
				2387~2400	2395.51	-44.31	≤-16	0.03707	≤25	PASS
				2483.5~2496.5	2487.47	-44.50	≤-16	0.03548	≤25	PASS
				2496.5~13000	4880.79	-52.15	≤-26	0.00610	≤2.5	PASS
			2480	30~500	188.51	-48.06	≤-26	0.01563	≤2.5	PASS
				500~1000	570.63	-56.57	≤-26	0.00220	≤2.5	PASS
				1000~2387	2151.56	-54.03	≤-26	0.00395	≤2.5	PASS
				2387~2400	2389.42	-44.35	≤-16	0.03673	≤25	PASS
				2483.5~2496.5	2484.03	-42.66	≤-16	0.05420	≤25	PASS
				2496.5~13000	4959.57	-52.43	≤-26	0.00571	≤2.5	PASS
	BLE_2M	Ant1	2402	30~500	175.58	-48.67	≤-26	0.01358	≤2.5	PASS
				500~1000	817.63	-56.51	≤-26	0.00223	≤2.5	PASS
				1000~2387	2337.76	-53.34	≤-26	0.00463	≤2.5	PASS
				2387~2400	2400	-15.30	≤-16	29.51209	≤25	See below
				2483.5~2496.5	2489.31	-44.15	≤-16	0.03846	≤25	PASS
				2496.5~13000	3841.47	-53.54	≤-26	0.00443	≤2.5	PASS
			2440	30~500	188.86	-48.48	≤-26	0.01419	≤2.5	PASS
				500~1000	847.00	-55.88	≤-26	0.00258	≤2.5	PASS
				1000~2387	2043.02	-53.35	≤-26	0.00462	≤2.5	PASS
				2387~2400	2389.46	-44.51	≤-16	0.03540	≤25	PASS
				2483.5~2496.5	2496.44	-44.24	≤-16	0.03767	≤25	PASS
				2496.5~13000	4879.22	-53.49	≤-26	0.00448	≤2.5	PASS

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NTHV	BLE_1M	Ant1	2480	30~500	196.03	-48.61	≤-26	0.01377	≤2.5	PASS
				500~1000	821.25	-56.74	≤-26	0.00212	≤2.5	PASS
				1000~2387	2012.86	-53.04	≤-26	0.00497	≤2.5	PASS
				2387~2400	2389.59	-44.02	≤-16	0.03963	≤25	PASS
				2483.5~2496.5	2483.53	-39.48	≤-16	0.11272	≤25	PASS
				2496.5~13000	4959.05	-51.62	≤-26	0.00689	≤2.5	PASS
	BLE_2M	Ant1	2402	30~500	182.40	-48.64	≤-26	0.01368	≤2.5	PASS
				500~1000	916.63	-56.31	≤-26	0.00234	≤2.5	PASS
				1000~2387	2062.79	-53.67	≤-26	0.00430	≤2.5	PASS
				2387~2400	2400.00	-29.89	≤-16	1.02565	≤25	PASS
				2483.5~2496.5	2491.89	-44.16	≤-16	0.03837	≤25	PASS
				2496.5~13000	4804.64	-52.58	≤-26	0.00552	≤2.5	PASS
		Ant1	2440	30~500	196.50	-48.01	≤-26	0.01581	≤2.5	PASS
				500~1000	884.38	-56.48	≤-26	0.00225	≤2.5	PASS
				1000~2387	2054.12	-53.86	≤-26	0.00411	≤2.5	PASS
				2387~2400	2392.28	-44.69	≤-16	0.03396	≤25	PASS
				2483.5~2496.5	2486.03	-44.00	≤-16	0.03981	≤25	PASS
				2496.5~13000	4879.74	-52.10	≤-26	0.00617	≤2.5	PASS
		Ant1	2480	30~500	192.39	-48.50	≤-26	0.01413	≤2.5	PASS
				500~1000	920.25	-55.61	≤-26	0.00275	≤2.5	PASS
				1000~2387	2073.19	-53.30	≤-26	0.00468	≤2.5	PASS
				2387~2400	2388.74	-44.86	≤-16	0.03266	≤25	PASS
				2483.5~2496.5	2483.92	-43.07	≤-16	0.04932	≤25	PASS
				2496.5~13000	4959.57	-51.59	≤-26	0.00693	≤2.5	PASS
		Ant1	2402	30~500	173.59	-48.12	≤-26	0.01542	≤2.5	PASS
				500~1000	953.38	-55.80	≤-26	0.00263	≤2.5	PASS
				1000~2387	2338.11	-53.52	≤-26	0.00445	≤2.5	PASS
				2387~2400	2400	-15.39	≤-16	28.90680	≤25	See below
				2483.5~2496.5	2490.49	-43.89	≤-16	0.04083	≤25	PASS
				2496.5~13000	3784.23	-54.74	≤-26	0.00336	≤2.5	PASS
		Ant1	2440	30~500	191.21	-48.01	≤-26	0.01581	≤2.5	PASS
				500~1000	731.75	-54.55	≤-26	0.00351	≤2.5	PASS
				1000~2387	2375.21	-52.42	≤-26	0.00573	≤2.5	PASS
				2387~2400	2388.19	-44.29	≤-16	0.03724	≤25	PASS
				2483.5~2496.5	2484.44	-44.14	≤-16	0.03855	≤25	PASS
				2496.5~13000	4880.79	-52.58	≤-26	0.00552	≤2.5	PASS
		Ant1	2480	30~500	178.05	-47.34	≤-26	0.01845	≤2.5	PASS
				500~1000	840.25	-56.67	≤-26	0.00215	≤2.5	PASS
				1000~2387	2105.44	-54.06	≤-26	0.00393	≤2.5	PASS
				2387~2400	2395.12	-44.08	≤-16	0.03908	≤25	PASS
				2483.5~2496.5	2483.50	-39.78	≤-16	0.10520	≤25	PASS
				2496.5~13000	4960.62	-52.98	≤-26	0.00504	≤2.5	PASS

Step2

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.[MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_2M	Ant1	2402	2400.00	-23.44	≤-16	4.52898	≤25	PASS
NTHV	BLE_2M	Ant1	2402	2400.00	-23.44	≤-16	4.52898	≤25	PASS
NTHV	BLE_2M	Ant1	2402	2400.00	-50.08	≤-16	0.00982	≤25	PASS

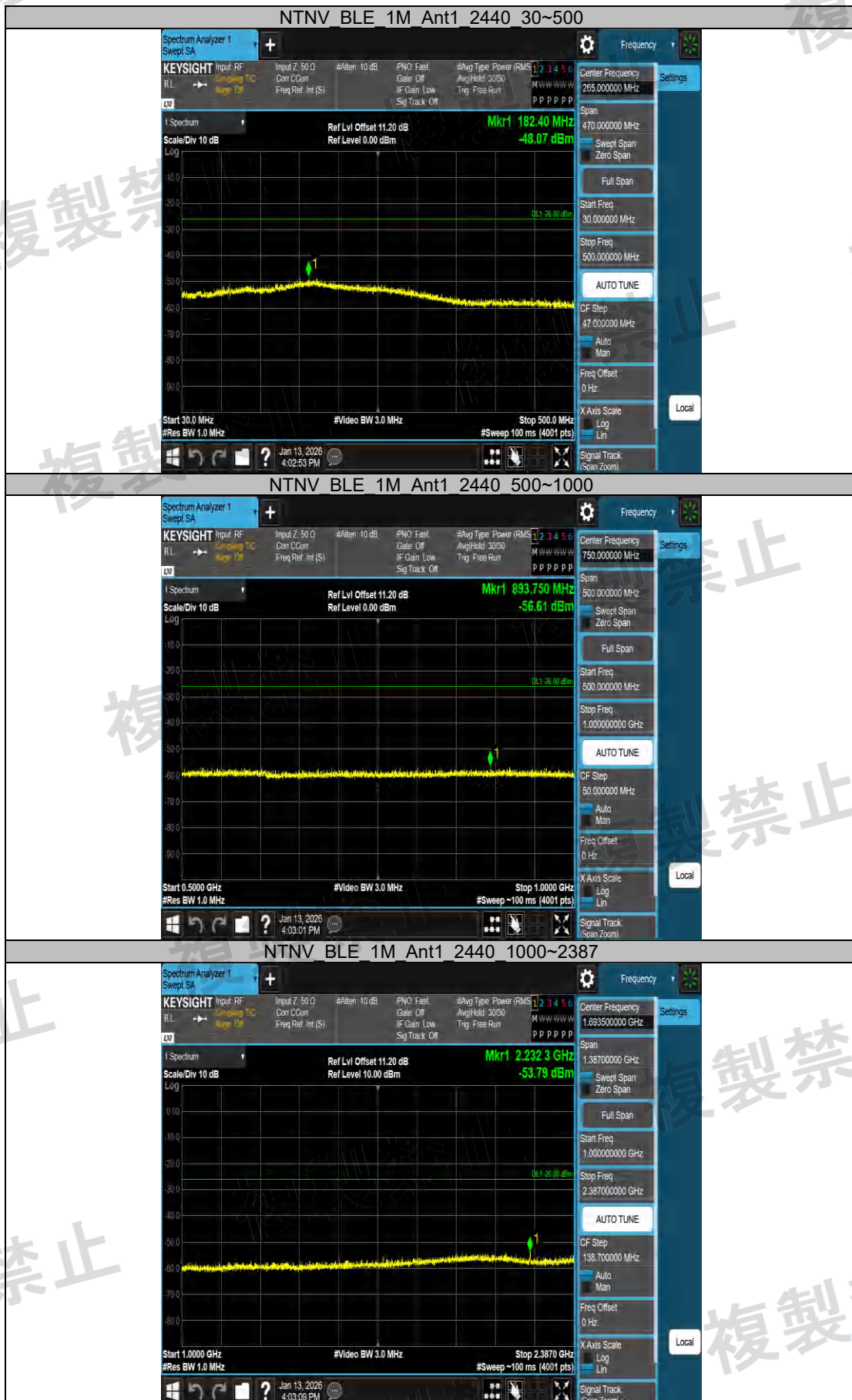




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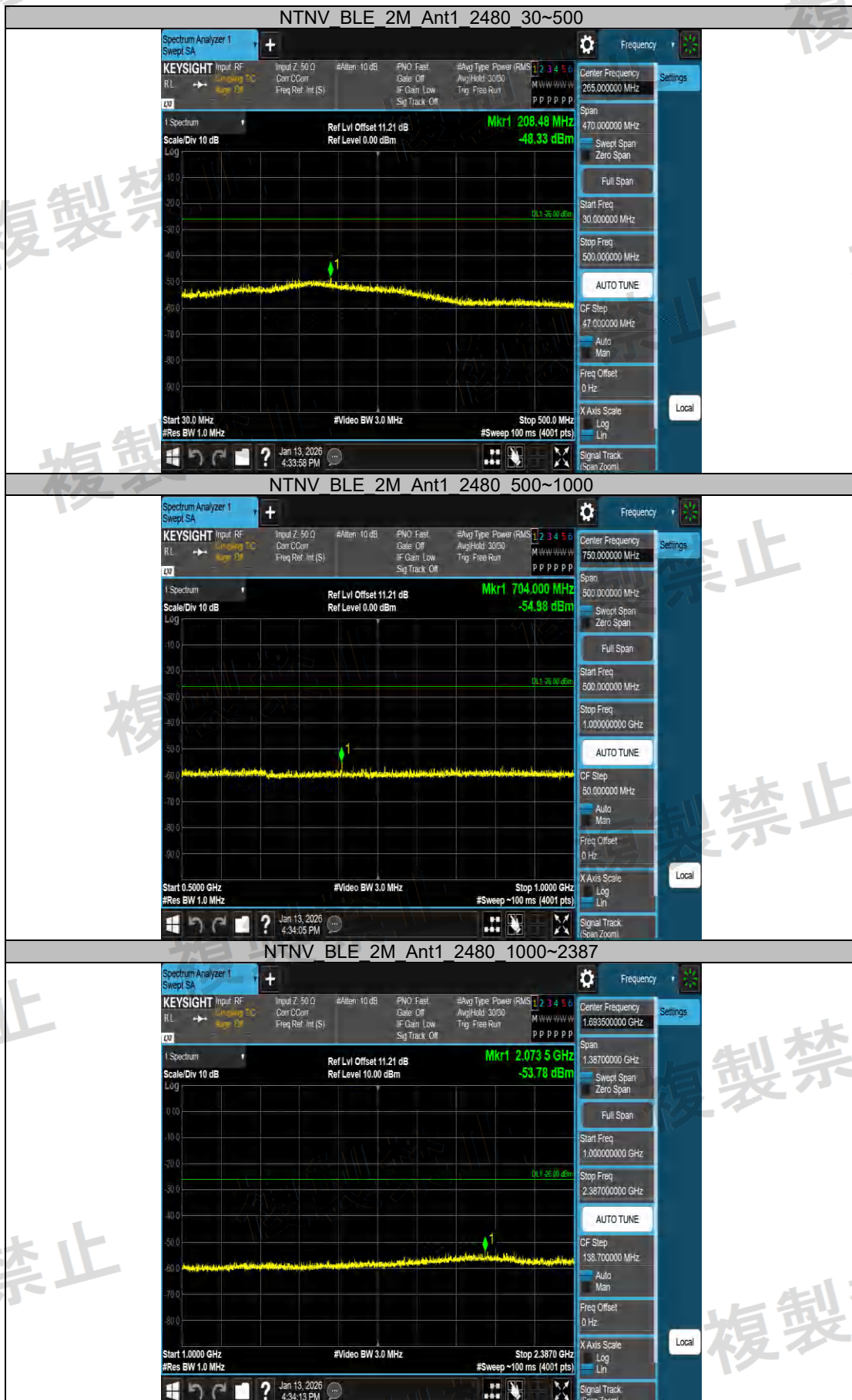


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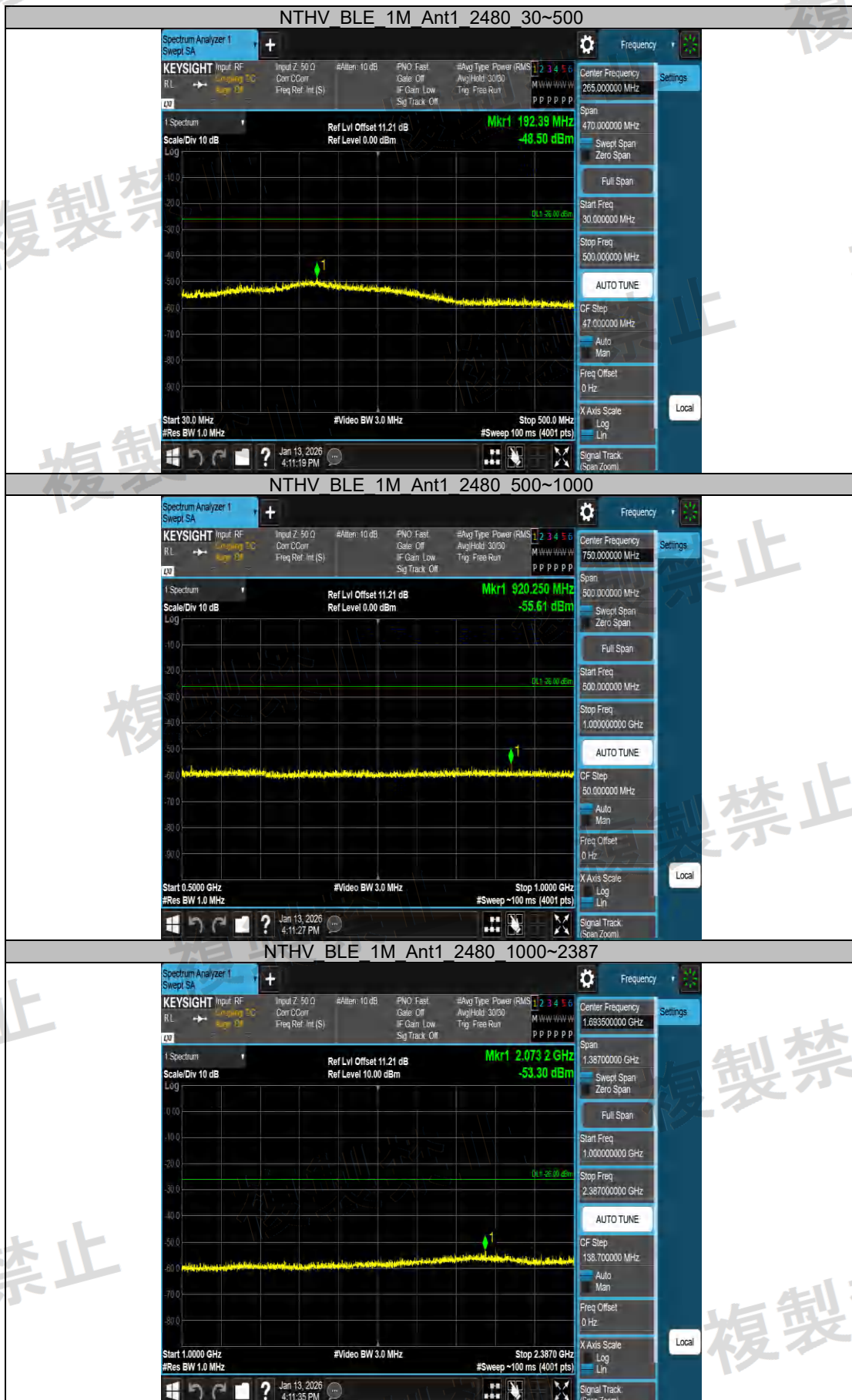
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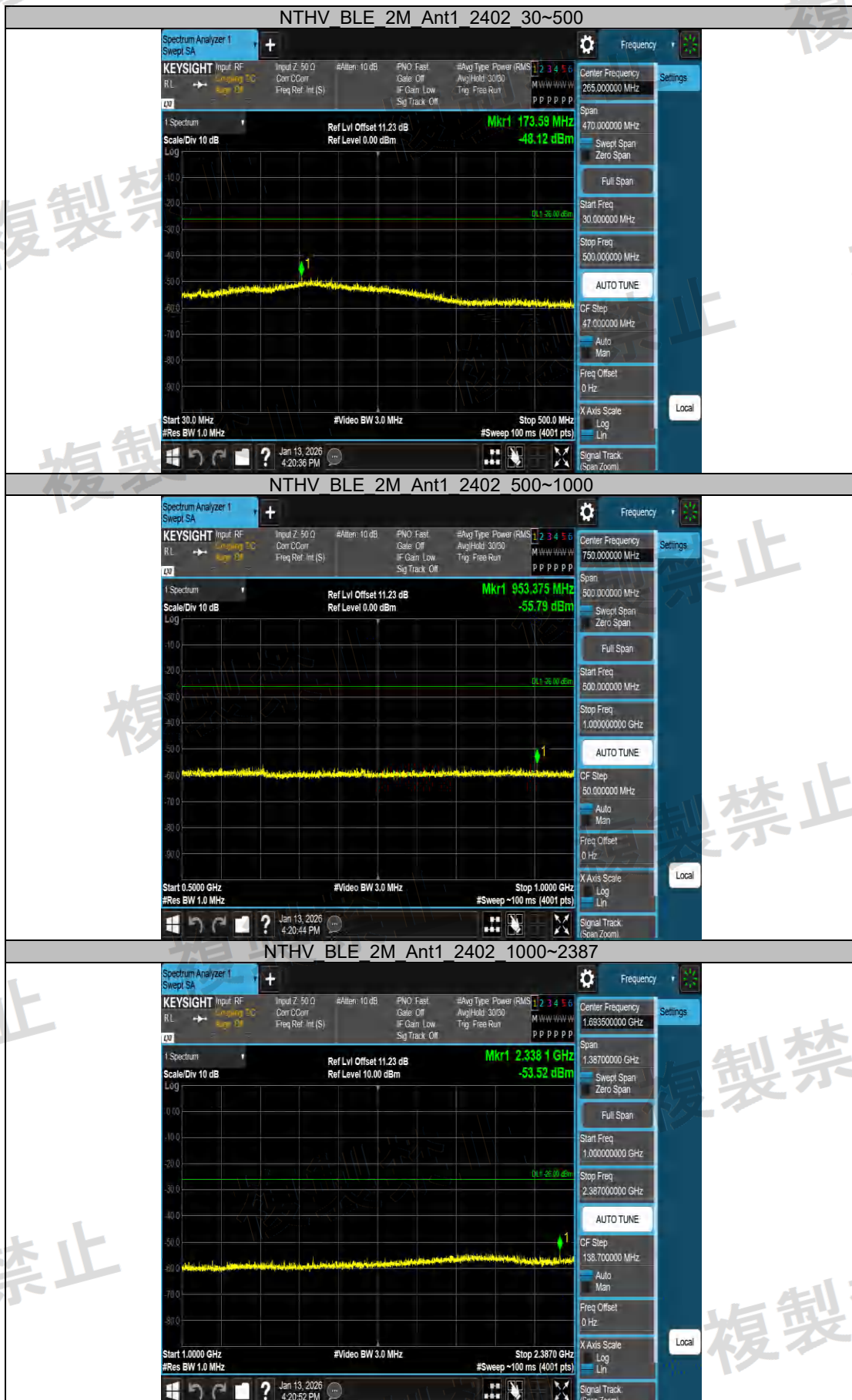


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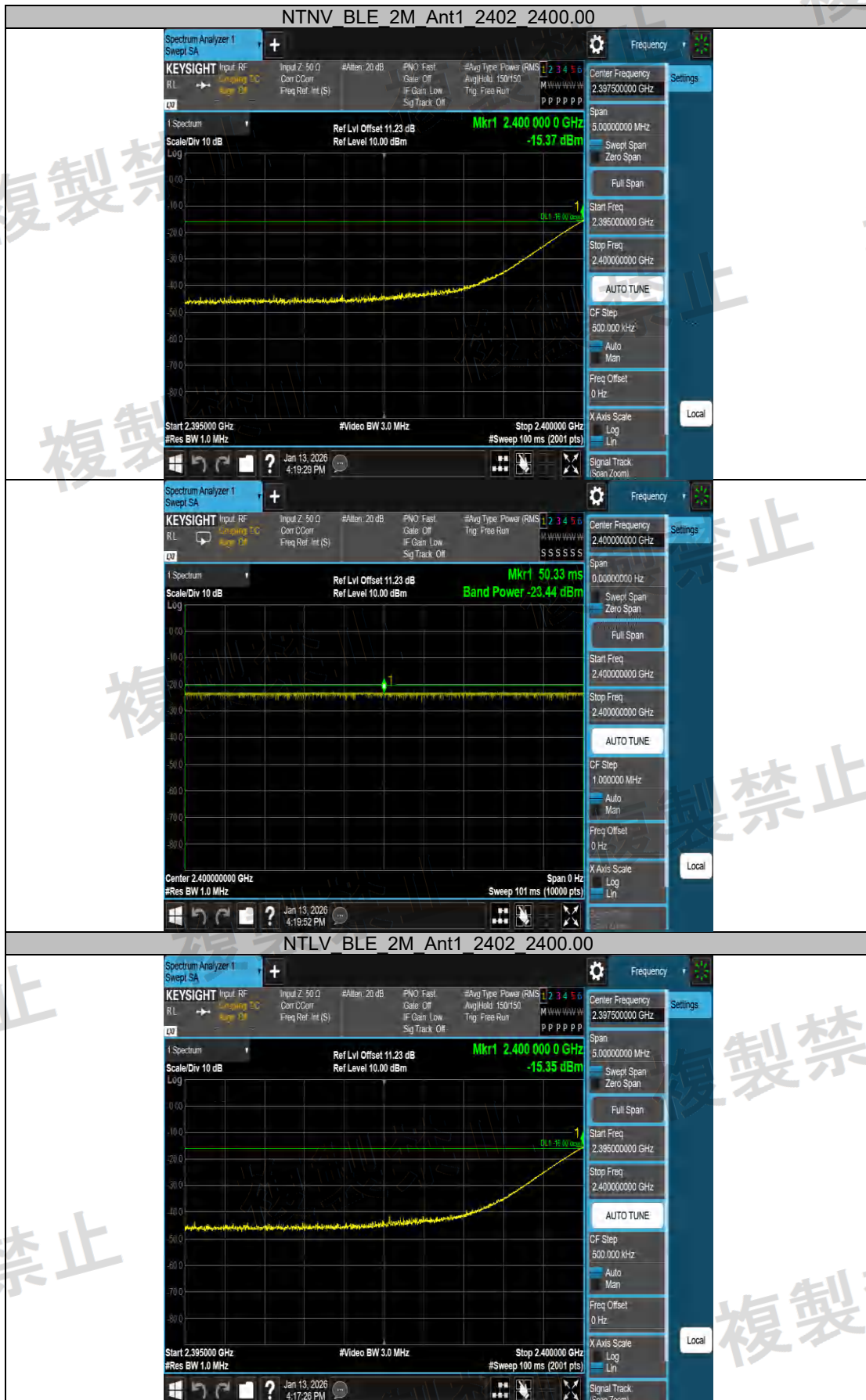
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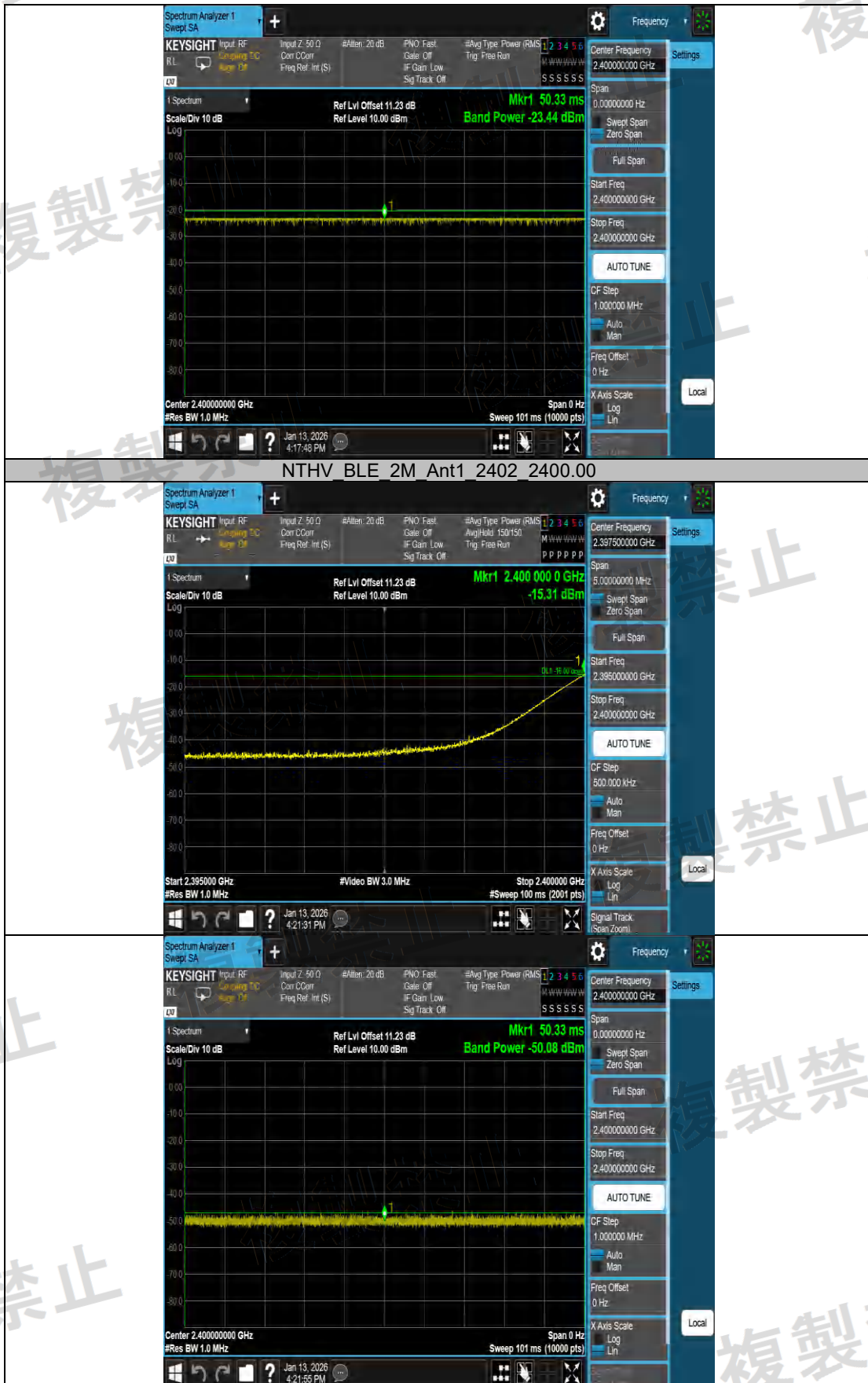
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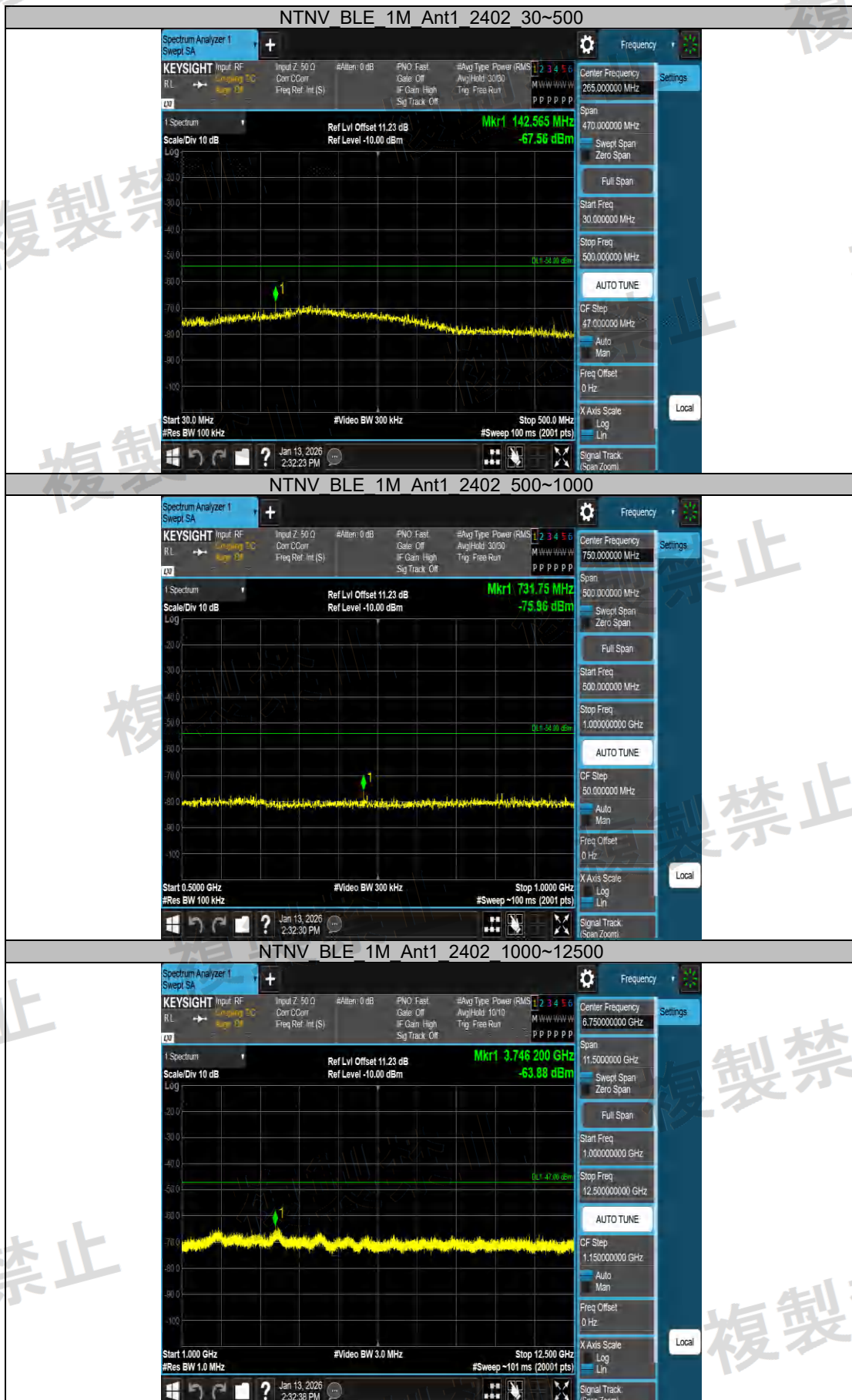
Step2:





5 Appendix A.5: SPURIOUS EMISSIONS FOR RECEIVER

TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~500	142.57	-67.56	≤-54	0.17539	≤4	PASS
				500~1000	731.75	-75.96	≤-54	0.02535	≤4	PASS
				1000~12500	3746.20	-63.88	≤-47	0.40926	≤20	PASS
			2440	30~500	192.86	-68.58	≤-54	0.13868	≤4	PASS
				500~1000	731.75	-75.35	≤-54	0.02917	≤4	PASS
				1000~12500	2037.30	-63.65	≤-47	0.43152	≤20	PASS
			2480	30~500	183.46	-68.66	≤-54	0.13614	≤4	PASS
				500~1000	731.75	-75.05	≤-54	0.03126	≤4	PASS
				1000~12500	3739.30	-64.56	≤-47	0.34995	≤20	PASS
	BLE_2M	Ant1	2402	30~500	142.57	-68.62	≤-54	0.13740	≤4	PASS
				500~1000	731.75	-75.14	≤-54	0.03062	≤4	PASS
				1000~12500	1980.95	-63.86	≤-47	0.41115	≤20	PASS
			2440	30~500	177.58	-68.99	≤-54	0.12618	≤4	PASS
				500~1000	731.75	-76.97	≤-54	0.02009	≤4	PASS
				1000~12500	3754.25	-63.76	≤-47	0.42073	≤20	PASS
			2480	30~500	183.46	-68.86	≤-54	0.13002	≤4	PASS
				500~1000	731.75	-76.40	≤-54	0.02291	≤4	PASS
				1000~12500	3882.48	-64.47	≤-47	0.35727	≤20	PASS
NTLV	BLE_1M	Ant1	2402	30~500	187.45	-68.70	≤-54	0.13490	≤4	PASS
				500~1000	731.75	-76.27	≤-54	0.02360	≤4	PASS
				1000~12500	3785.88	-64.89	≤-47	0.32434	≤20	PASS
			2440	30~500	175.94	-68.61	≤-54	0.13772	≤4	PASS
				500~1000	731.75	-76.95	≤-54	0.02018	≤4	PASS
				1000~12500	3815.20	-64.48	≤-47	0.35645	≤20	PASS
			2480	30~500	186.51	-68.50	≤-54	0.14125	≤4	PASS
				500~1000	731.75	-76.03	≤-54	0.02495	≤4	PASS
				1000~12500	3818.08	-64.31	≤-47	0.37068	≤20	PASS
	BLE_2M	Ant1	2402	30~500	190.04	-68.68	≤-54	0.13552	≤4	PASS
				500~1000	731.75	-75.97	≤-54	0.02529	≤4	PASS
				1000~12500	3761.73	-64.77	≤-47	0.33343	≤20	PASS
			2440	30~500	184.16	-67.20	≤-54	0.19055	≤4	PASS
				500~1000	731.75	-76.08	≤-54	0.02466	≤4	PASS
				1000~12500	3694.45	-64.25	≤-47	0.37584	≤20	PASS
			2480	30~500	181.34	-68.17	≤-54	0.15241	≤4	PASS
				500~1000	731.75	-75.61	≤-54	0.02748	≤4	PASS
				1000~12500	2014.30	-63.52	≤-47	0.44463	≤20	PASS
NTHV	BLE_1M	Ant1	2402	30~500	206.49	-68.51	≤-54	0.14093	≤4	PASS
				500~1000	731.75	-76.21	≤-54	0.02393	≤4	PASS
				1000~12500	2004.53	-63.84	≤-47	0.41305	≤20	PASS
			2440	30~500	184.40	-68.31	≤-54	0.14757	≤4	PASS
				500~1000	731.75	-76.19	≤-54	0.02404	≤4	PASS
				1000~12500	3793.35	-63.93	≤-47	0.40458	≤20	PASS
			2480	30~500	172.41	-68.94	≤-54	0.12764	≤4	PASS
				500~1000	731.75	-76.19	≤-54	0.02404	≤4	PASS
				1000~12500	2075.83	-64.03	≤-47	0.39537	≤20	PASS
	BLE_2M	Ant1	2402	30~500	169.12	-68.77	≤-54	0.13274	≤4	PASS
				500~1000	731.75	-76.42	≤-54	0.02280	≤4	PASS
				1000~12500	3755.40	-64.46	≤-47	0.35810	≤20	PASS
			2440	30~500	179.93	-68.33	≤-54	0.14689	≤4	PASS
				500~1000	731.75	-75.45	≤-54	0.02851	≤4	PASS
				1000~12500	3726.08	-64.59	≤-47	0.34754	≤20	PASS
			2480	30~500	186.98	-68.33	≤-54	0.14689	≤4	PASS
				500~1000	603.00	-76.31	≤-54	0.02339	≤4	PASS
				1000~12500	3801.40	-64.13	≤-47	0.38637	≤20	PASS



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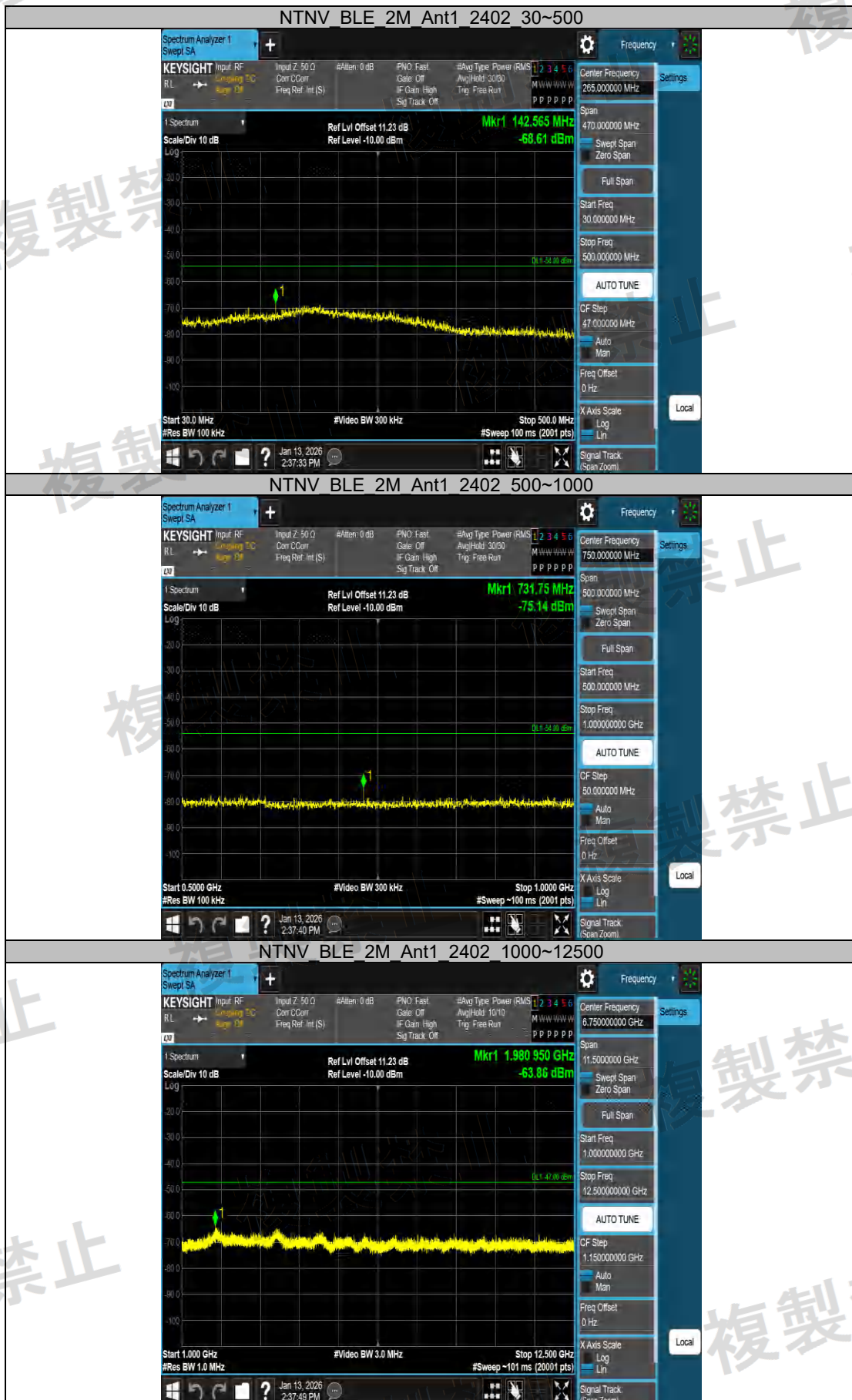




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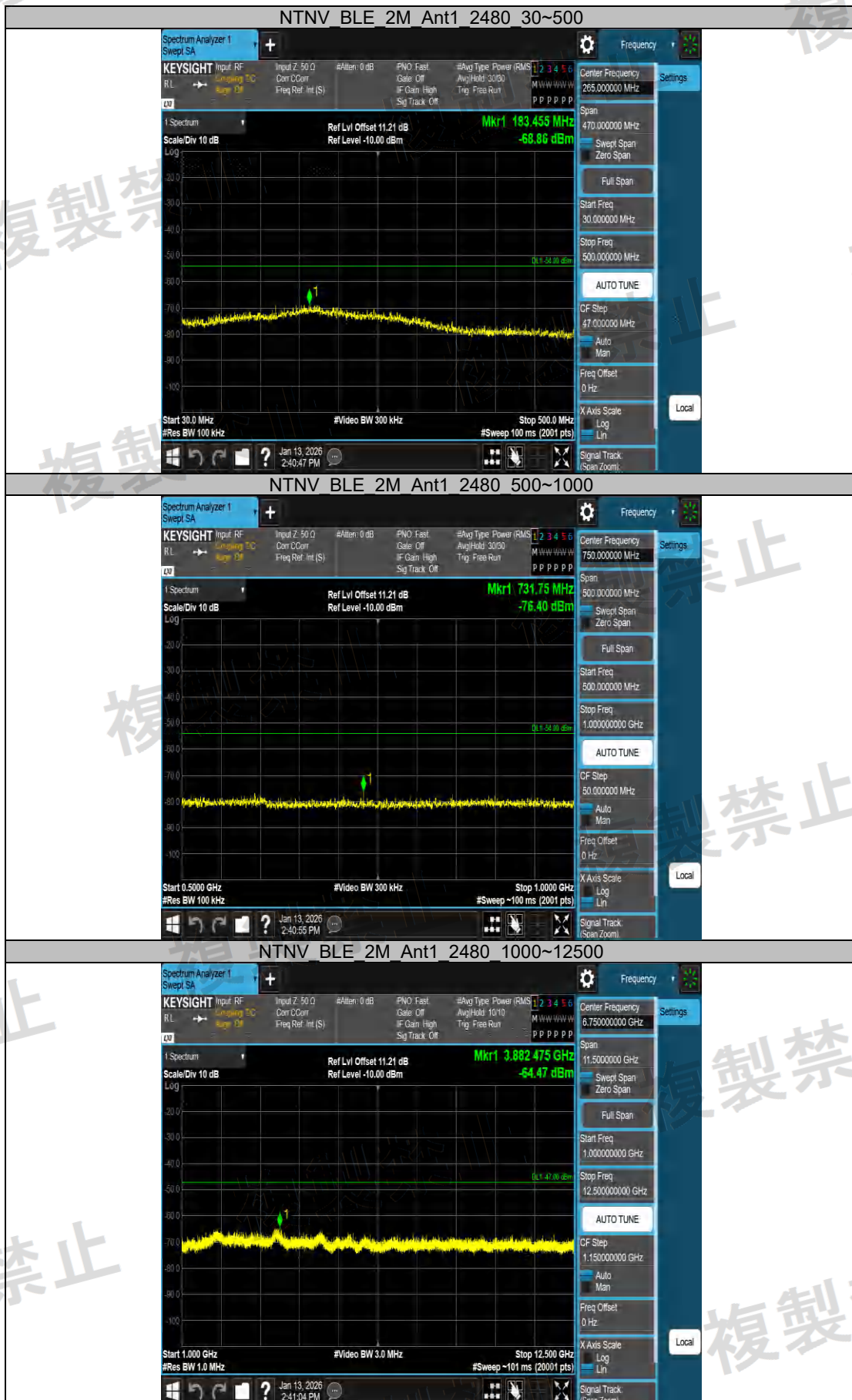




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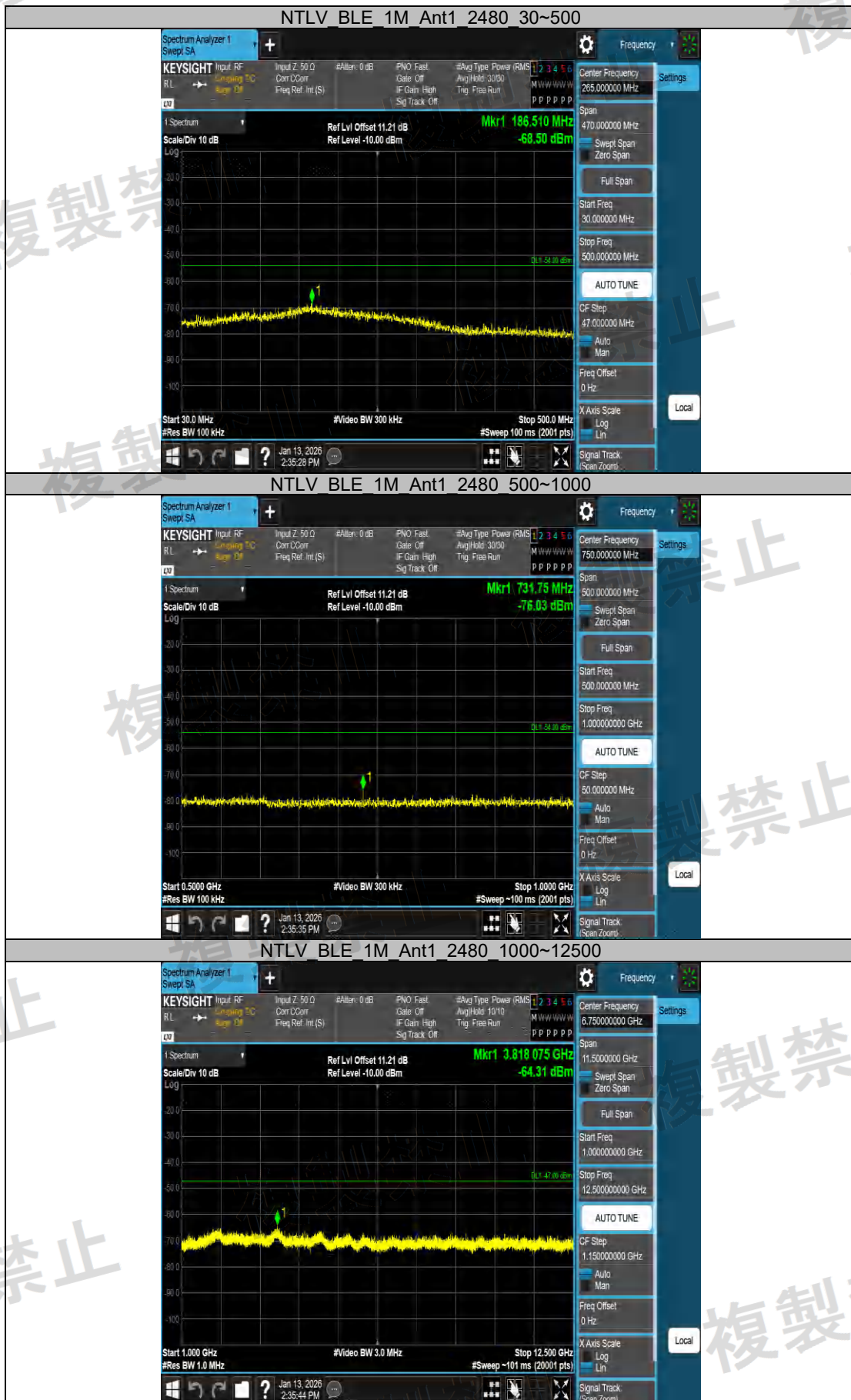
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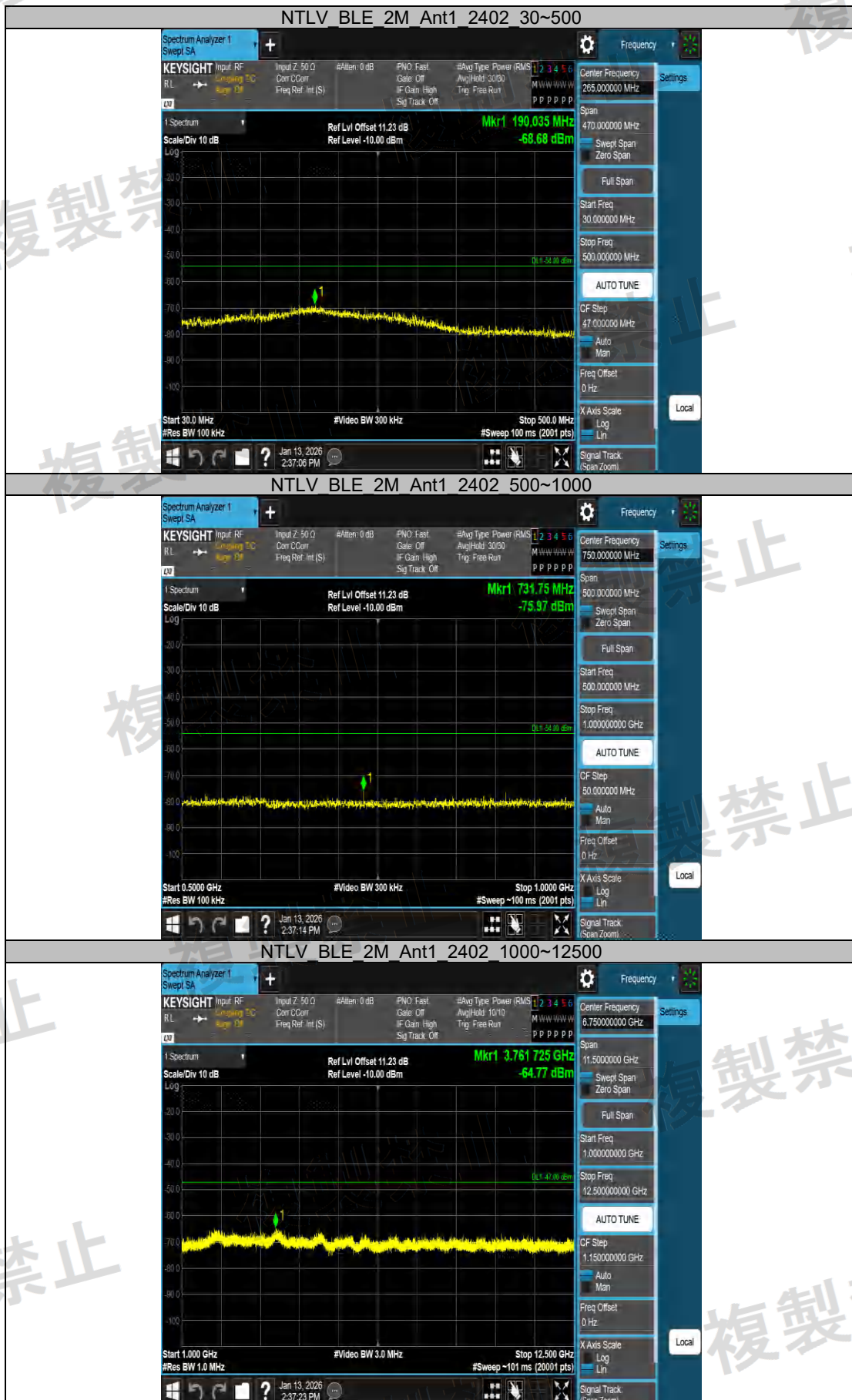
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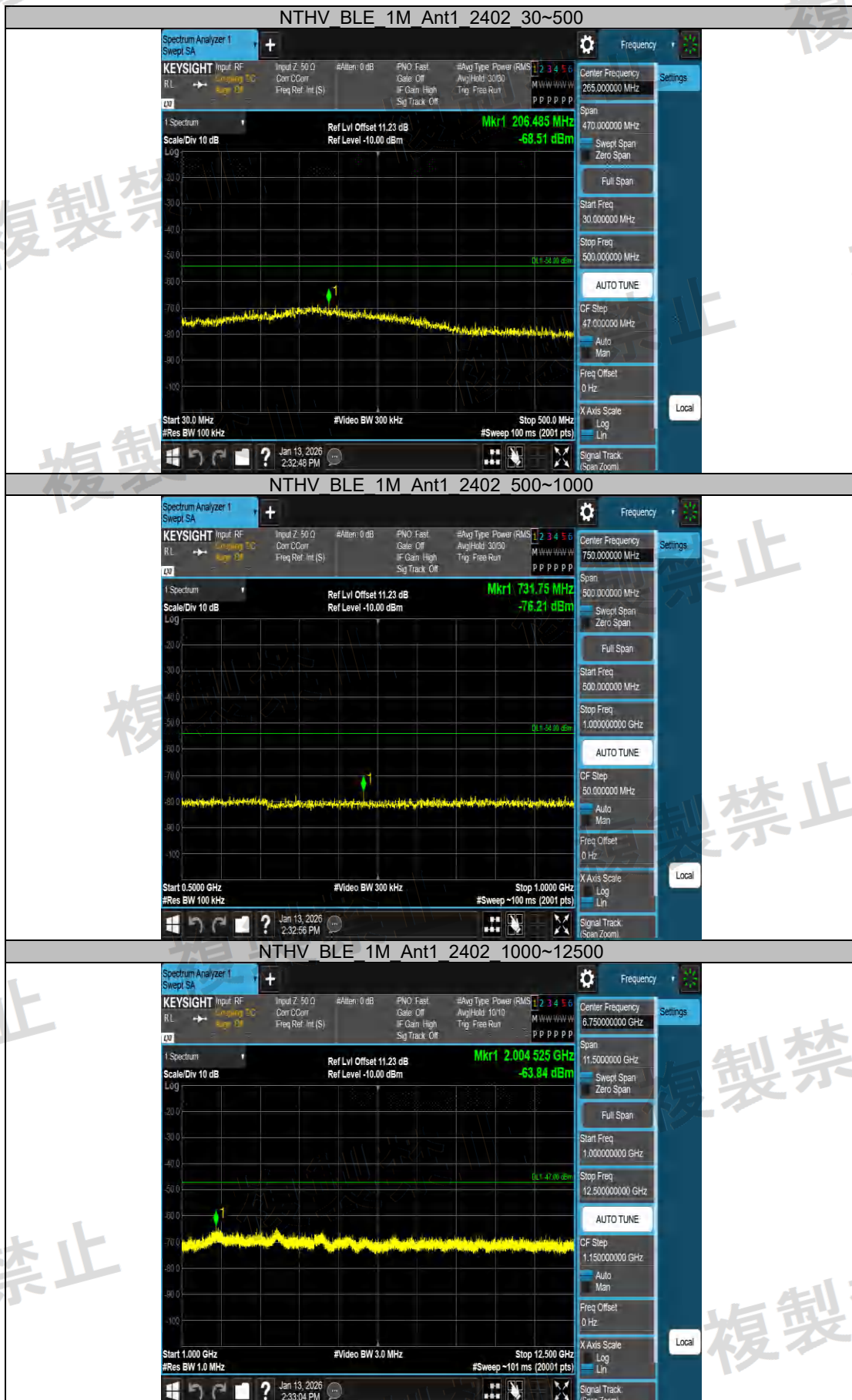


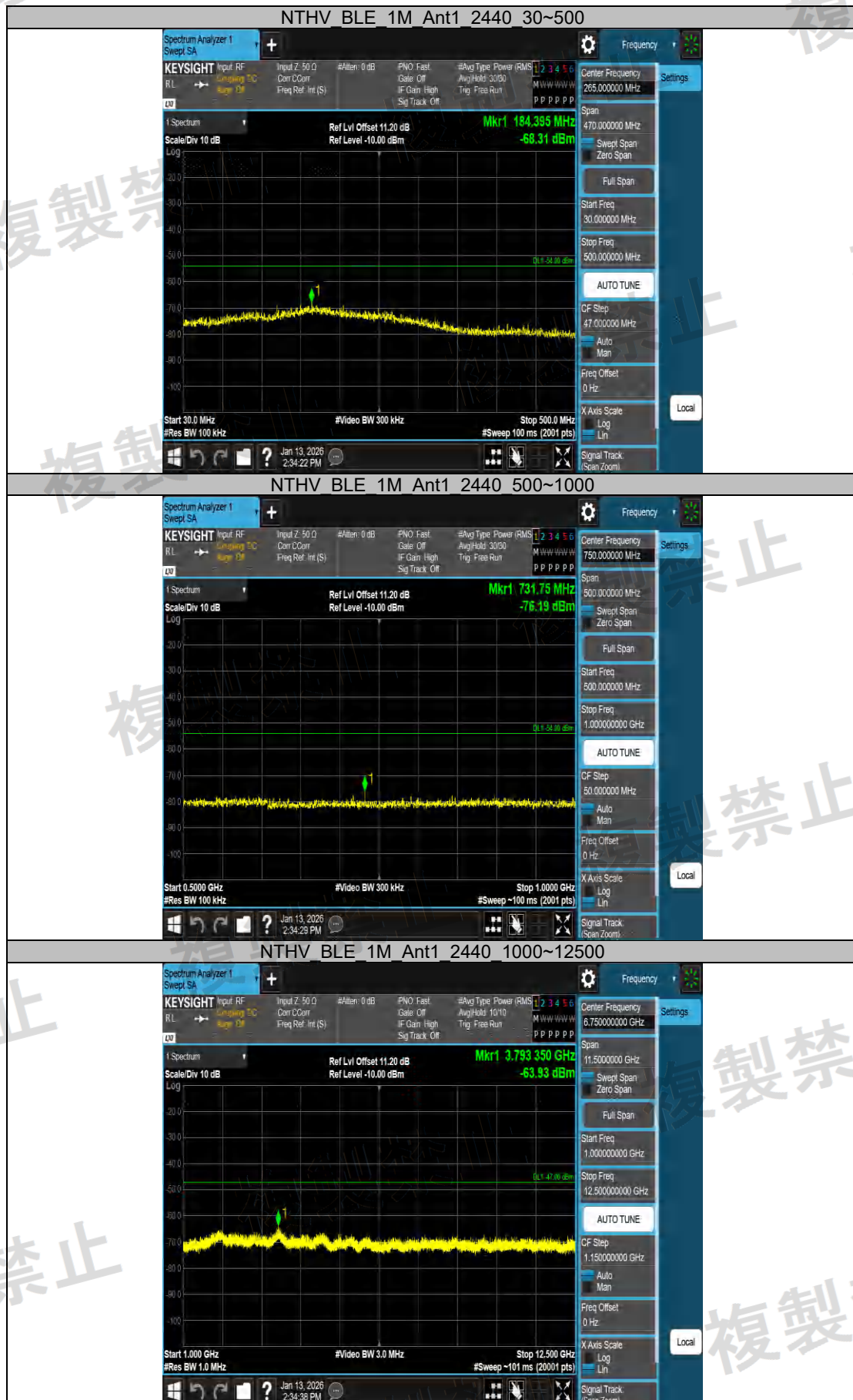
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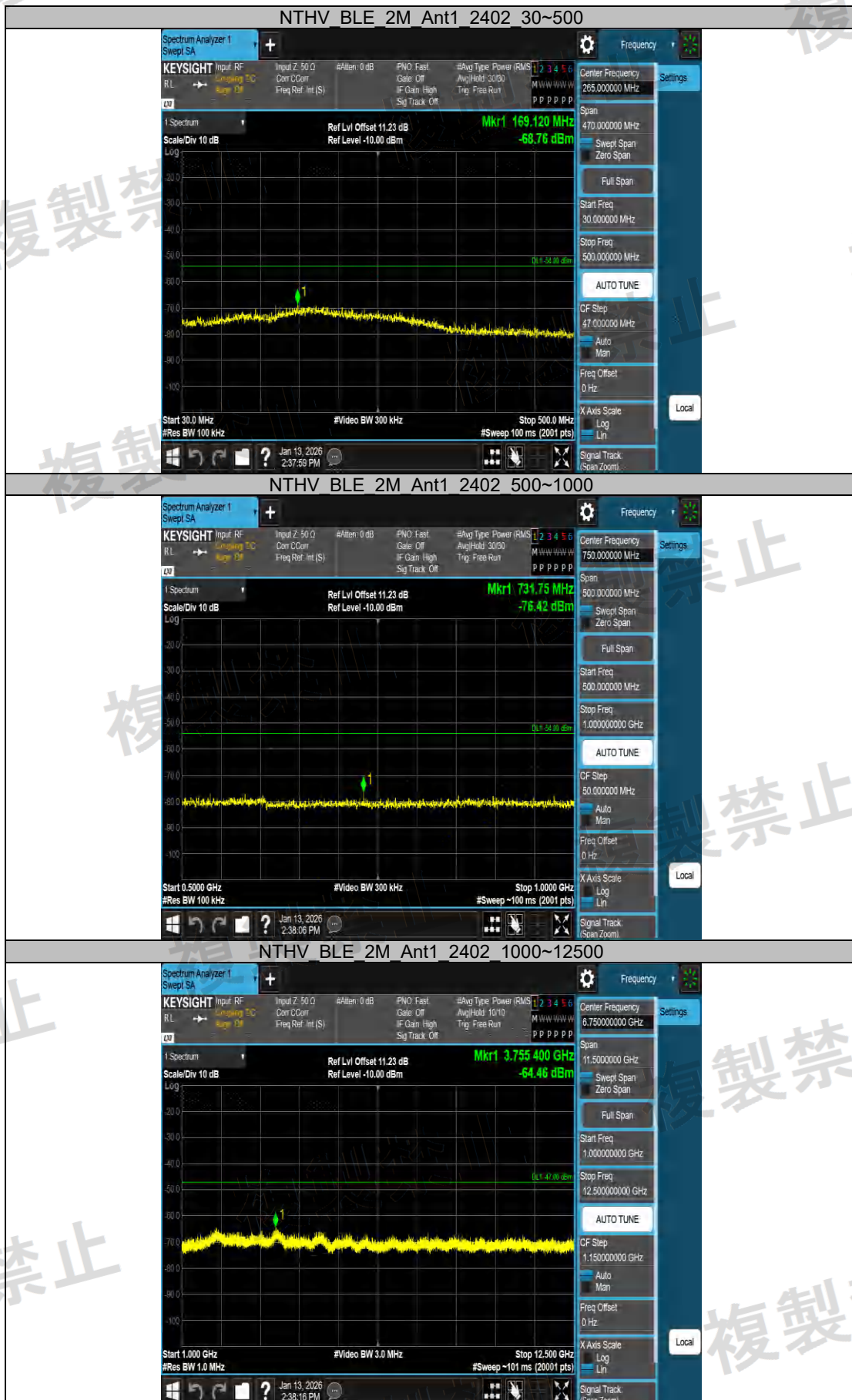
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