



Test Report No.: PSU-QBJ2511130112RJ01



Certificate #6613.01

MIC TEST REPORT (BLE)

Applicant:	ABB Beijing Drive Systems Co., Ltd.
Address:	No.1 Block D, A-10 Jiuxianqiao Beilu, Chaoyang District, Beijing, 100015, P.R. China

Manufacturer or Supplier:	ABB Beijing Drive Systems Co., Ltd.
Address:	No.1 Block D, A-10 Jiuxianqiao Beilu, Chaoyang District, Beijing, 100015, P.R. China
Product:	Assistant control panel
Brand Name:	ABB
Model Name:	ACS-AP-WP
Date of tests:	Nov. 14, 2025 ~ Dec. 04, 2025

The tests have been carried out according to the requirements of the following standard:

☒ Article 2 Paragraph 1 of item 19

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Dec. 15, 2025	Date: Dec. 15, 2025

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QBJ2511130112RJ01	Original release	Dec. 15, 2025



1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications :

Notice 88 Appendix 43 Reference	Report reference	Parameter	Test Results (NOTE)
GENERAL PROVISIONS			
C	4.1	Frequency tolerance	C
D	4.2	Occupied bandwidth	C
E	4.4	Spurious emissions	C
TRANSMITTING EQUIPMENT			
F	4.5	Antenna power	C
--	--	SAR	NA
TRANSMITTING ANTENNA			
--	3.5	Type, configuration, etc. of transmitting antenna	C
--	3.5	Direction pattern of transmitting antenna	C
RECEIVING EQUIPMENT			
G	4.6	Spurious emissions of receiver	C
--	3.5	Refer to all articles for transmitting antenna	C
OPERATING FREQUENCY 2400 TO 2483.5MHz			
--	3.4	High Frequency/modulation section cannot be opened easily	C
--	3.1	Communication method	C
--	3.1	Modulation method	C
--	3.1	Spread spectrum method	C
--	4.5	Antenna power	C
--	4.5	Absolute gain of transmitting antenna	C
--	4.6	Angular width of principal radiation (AWPR)	NA
--	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	4.2	Diffusion bandwidth	NA
--	4.3	Spreading factor	NA
--	4.8	Interference Prevention Function	C
--	4.7	Carrier Sense Capability	NA
--	4.9	Construction Protection Confirmation	C
NOTE: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable			



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***Test Lab Information Reference**

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

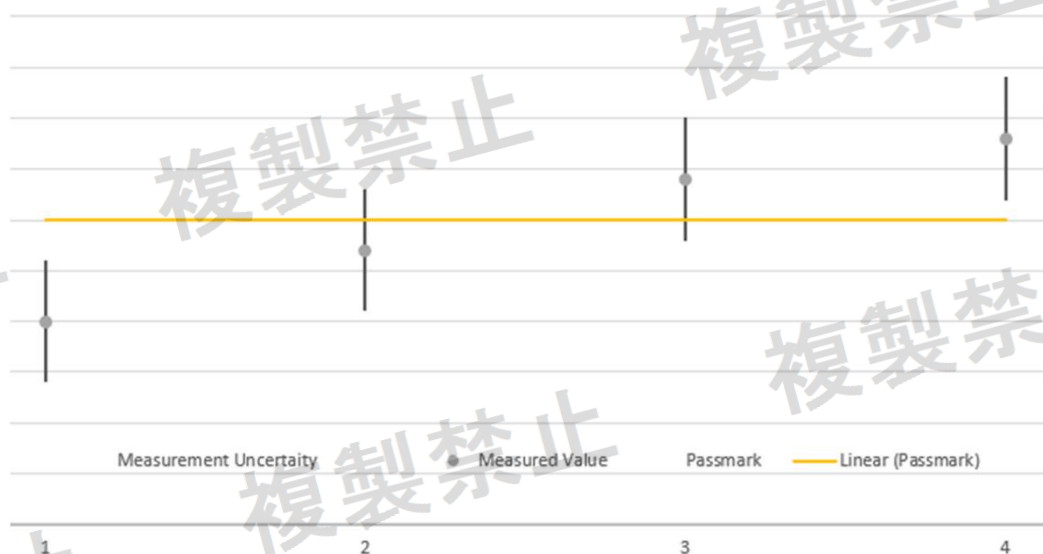


1.1 MEASUREMENT UNCERTAINTY

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	261.60 Hz
Spurious emissions	2.52dB
Output power density	1.37dB
Out of band radiated power	2.52 dB
Frequency Tolerance	0.104 ppm



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF LAB

TEST LAB	Huarui 7layers High Technology (Suzhou) Co., Ltd.
TEST LAB ADDRESS:	Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

2.2 GENERAL DESCRIPTION OF EUT

PRODUCT*	Assistant control panel	
BRAND NAME*	ABB	
MODEL NAME*	ACS-AP-WP	
TYPE OF EQUIPMENT	Data transmission equipment operating in the 2.4GHz	
MODULATION TECHNOLOGY	BLE:GFSK	
OPERATING FREQUENCY	BT-LE (S8&S2&1M): 2402MHz ~ 2480MHz BT-LE (2M): 2404MHz ~ 2478MHz	
NUMBER OF CHANNEL	NA	
RATED RF OUTPUT POWER DENSITY	Refer to NOTE 4	
CONDUCTED RF OUTPUT POWER DENSITY	Refer to NOTE 4	
RADIATED RF OUTPUT POWER DENSITY	Refer to NOTE 4	
ANTENNA GAIN*	☒ Provided by client	
	1.7dBi	
ANTENNA TYPE*	BLE	PCB Antenna
NORMAL VOTAGE	VOLTAGE	15Vdc~24Vdc
	TEMP	-20℃~55℃
24V EXTREME CONDITION	21.6V-26.4V	
HW-Release No*	D version	
SW-Release No*	v1.1.0.1	

NOTE:

- *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- For a more detailed features description, please refer to the manufacturer's specifications or the



user's manual.

3. The EUT incorporates a SISO function without beamforming.

MODULATION MODE	TX/RX FUNCTION
BT_LE(S2)	1TX /1RX
BT_LE(S8)	1TX /1RX
BT_LE(1MHz)	1TX /1RX
BT_LE(2MHz)	1TX /1RX

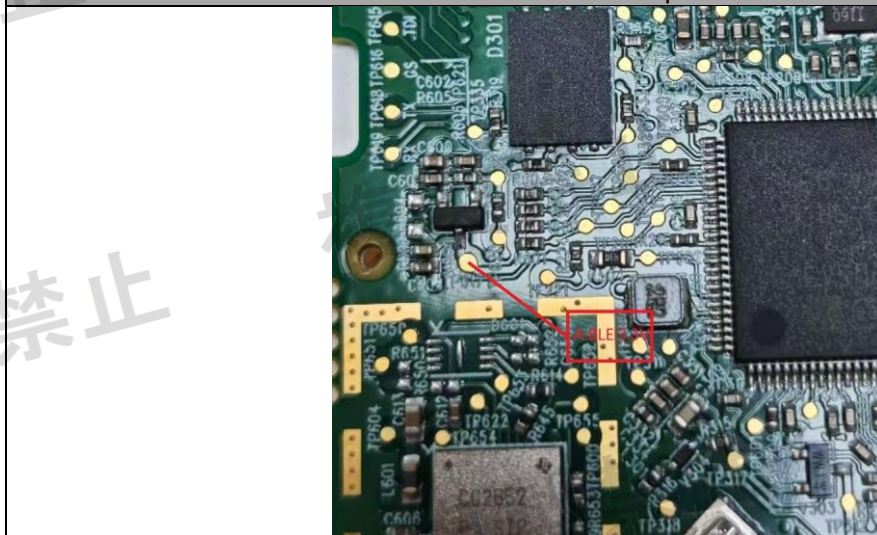
4. The power table as below table:

	Rated output power density (mW)	Conducted RF output power density (mW)	Radiated RF output power density (mW)
BLE (125K)	3.16	3.3189	4.9091
BLE (500K)	3.16	3.3266	4.9204
BLE (1M)	3.16	3.4514	5.1050
BLE (2M)	3.16	3.3266	4.9204

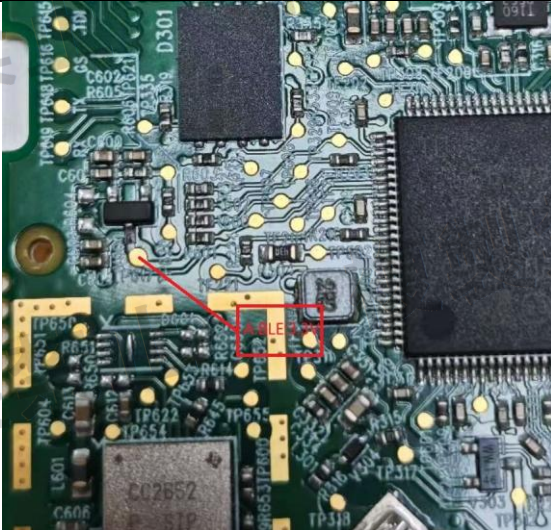
5. When EUT be operated at $\pm 10\%$ from the normal supply voltage, the supply voltage of RF part was varied within $\pm 1\%$. All test cases were done under the normal supply voltage.

Stabilized voltage point	Power supply voltage 21.6Vdc (Normal)	Power supply voltage 24Vdc (+10%)	Power supply voltage 26.4Vdc (-10%)
A	3.28	3.28	3.28

Measurement point





Stabilized voltage point	Power supply voltage 13.5Vdc (Normal)	Power supply voltage 15Vdc (+10%)	Power supply voltage 16.5Vdc (-10%)
A	3.28	3.28	3.28
Measurement point			
			

- For the test results, the EUT had been tested with normal supply voltage condition.
- Under the two rated voltages, the variation of the stabilized point voltage is within $\pm 1\%$, so only the DC 24V rated voltage test is conducted.



2.3 DESCRIPTION OF TEST CHANNELS

40 channels are provided for BT-LE (GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

NOTE:

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.
2. By means of test software for BT_LE 1MHz/2 MHz/0.125MHz/0.5MHz provided by manufacture, the power levels during the tests were set according to the following codes:



SISO MODE:

BT-LE (S8)		BT-LE (S2)	
Channel	Power setting	Channel	Power setting
0	Default	0	Default
19	Default	19	Default
39	Default	39	Default
BT-LE (1M)		BT-LE (2M)	
Channel	Power setting	Channel	Power setting
0	Default	1	Default
19	Default	19	Default
39	Default	38	Default



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2.4 TEST CONDITIONS

Test conditions	Voltage (Vdc)
V_{normal}	24V

2.5 ASSEMBLY

The RF circuit is located inside the EUT. The RF circuit is protected by the prototype casing and is not easily accessible. The frequency band, channel and modulation parameters are fixed within the chip. The end user cannot edit or modify them.

2.6 ANTENNA SPECIFICATIONS

2.6.1 ANTENNA GAIN

Ant. Type	Connector Type	Highest Peak Gain with Cable Loss (dBi) 2.4GHz ~ 2.5GHz
antenna	PCB	1.7dBi

2.6.2 ANTENNA PATTERN

Please refer to the attached file (Antenna report).



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 PROCEDURES

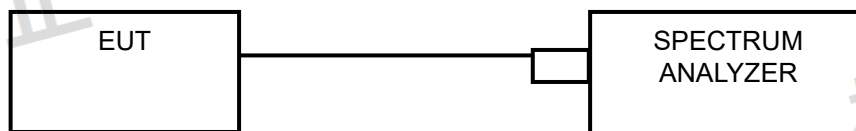
Method 1

1. Set RBW = 10 or 100kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. That are attenuated by 10 dB relative to the maximum level measured in the fundamental emission for EUT ,then Mark F1 and f2,final use formula $FT = \frac{[(f1+f2)/2]-f}{f}$, f=fundamental emission frequency

Method 2

1. Set RBW = 1 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum Peak of the emission for CW and mark f1, then use formula $FT = (f1-f)/f$, f=fundamental emission frequency

3.1.3 TEST SETUP



3.1.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



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	<38MHz	For 802.11n (HT40)
Occupied bandwidth	<26MHz	For BT-LE (GFSK)

3.2.2 TEST PROCEDURES

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

Use the 99 % bandwidth function of the spectrum analyser to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



3.3 SPURIOUS EMISSIONS FOR TRANSMITTER MEASUREMENT

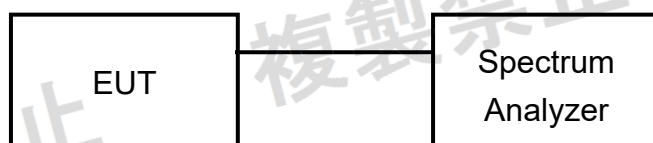
3.3.1 LIMITS OF SPURIOUS EMISSIONS

FREQUENCIES (MHz)	LIMIT
Operating frequency 2400 to 2483.5MHz	
30.0MHz to 1000.0MHz	$\leq 2.5\mu\text{W/MHz}$
1000.0MHz 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	$\leq 2.5\mu\text{W/MHz}$

3.3.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

3.3.3 TEST SETUP



3.3.4 SUMMARY OF TEST RESULT

Please Refer to Appendix A Of this test report.



3.4 ANTENNA POWER MEASUREMENT

3.4.1 LIMITS OF ANTENNA POWER

Antenna power shall be 10mW or less.

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	12.14dBm/MHz (16.368mW/MHz)	22.14dBm/MHz (163.68 mW/MHz)
OFDM (Wide-Band)	2,400 – 2,4835 MHz	5mW/MHz	9.14dBm/MHz (8.20mW/MHz)	19.14dBm/MHz (82.04mW/MHz)
DTS	2,400 – 2,4835 MHz	10mW	12.14 dBm (16.368 mW)	22.14 dBm (163.68 mW)

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

3.4.2 TEST PROCEDURES

WLAN:

Set 1:

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) = 3*RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Span=2*EBW
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Mark Spectrum Analyzer Peak point

Set 2:

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008



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1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) = RBW.
3. Detector = average.
4. Trace mode = average
5. Span = Zero Span
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Record the Power meter Value

Set 3:

Use SG instead of eut and repeat the above operation ,then Record the value of SG

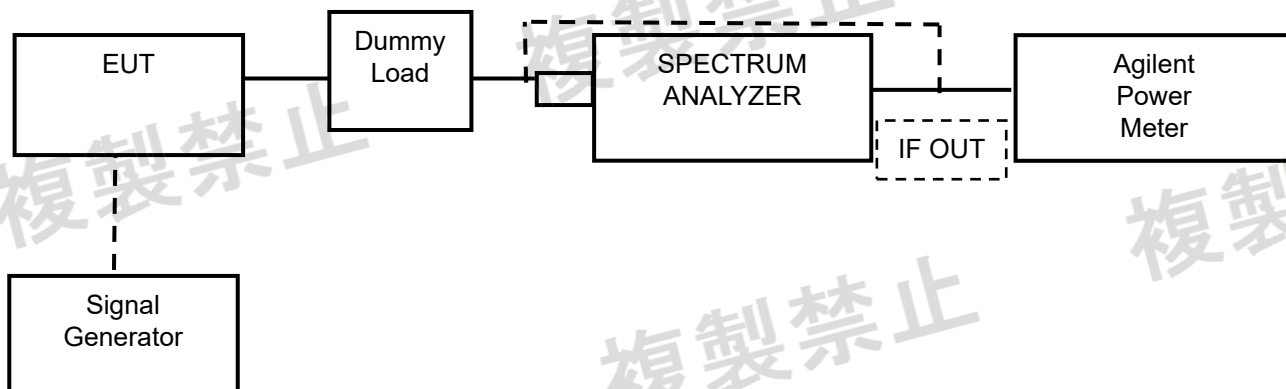
BLE :

Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.

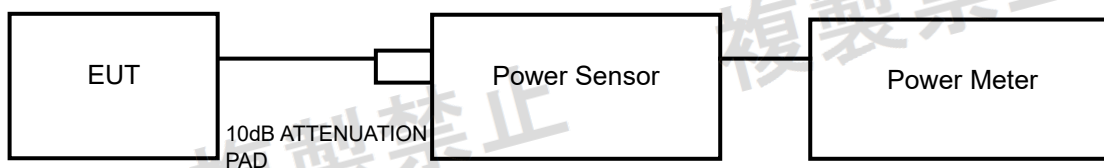


3.5.3 TEST SETUP

WLAN:



BLE:



3.5.4 TEST RESULTS

Please Refer to Appendix A Of this test report.



3.5 SPURIOUS EMISSIONS FOR RECEIVER

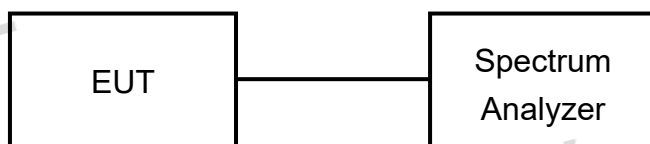
3.5.1 LIMITS OF SPURIOUS EMISSIONS FOR RECEIVER

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

3.5.2 TEST PROCEDURES

1. Set RBW = 1 MHz.(above 1GHz) or 0.1 MHz.(below 1GHz)
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

3.5.3 TEST SETUP



(EUT operate in multiple outputs:

The measurement was investigated worst chain and the worst chain was selected as representative test and add $10\log(N)$, its data was recorded in this report.)

3.5.4 SUMMARY OF TEST RESULT

Please Refer to Appendix A Of this test report.



3.6 INTERFERENCE PREVENTION FUNCTION

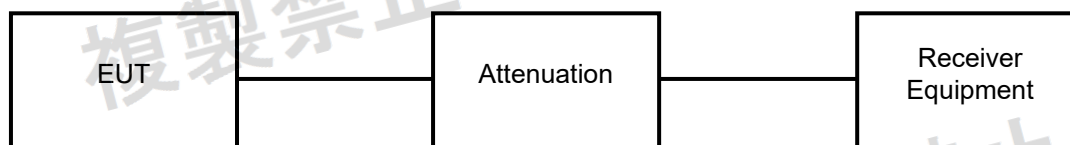
3.6.1 LIMITS OF INTERFERENCE PREVENTION FUNCTION

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

3.6.2 TEST PROCEDURES

According to ANNEX 43 Temporary test method specified by TACOYAKI.

3.6.3 TEST SETUP





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3.6.4 TEST RESULTS

ENVIRONMENTAL CONDITIONS	24 deg.C, 59% RH
LINK MODE	TEST RESULT
Identification code	2CA774DB26ED
BLE	PASS



3.7 CONSTRUCTION PROTECTION CONFIRMATION METHOD

3.7.1 CONFIRMATION METHOD

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot fused.
☒	Cover is specially interlocked.
☐	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other :



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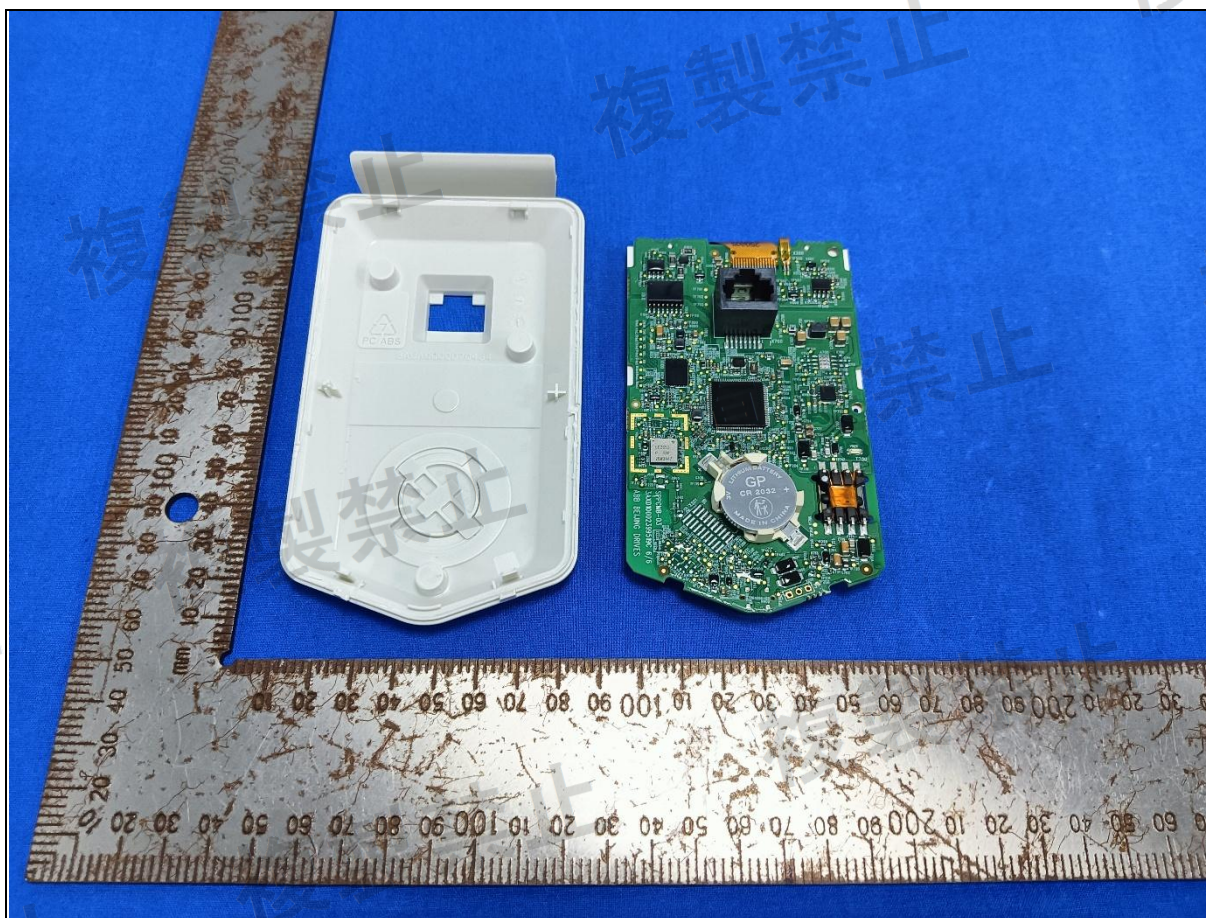
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3.7.2 THE PHOTOS OF CONSTRUCTION PROTECTION





3.7.3 TEST CIRCUIT PHOTO





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4 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Calibration Authority	Last Cal.	Next Cal.	Cal. Method
Power Meter	ANRITSU	ML2495A	1506002	GuangDian	Feb. 20,25	Feb. 19,26	c
DC Source	Agilent	U8002A	MY52140018	GuangDian	May. 29,25	May. 28,26	c
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	GuangDian	Feb. 20,25	Feb. 19,26	c
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	GuangDian	May. 30,25	May. 29,26	c
Power Sensor	ANRITSU	MA2411B	1339352	GuangDian	May. 04,25	May. 03,26	c
Signal Generator_N5182B	KEYSIGHT	N5182B	MY56200114	GuangDian	Feb. 13,25	Feb. 12,26	c
Power Divider (distributor)	GuangDian	ZPD8-2M0-40G-1942	04223129	GuangDian	Nov.03.25	Nov.02.26	c

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to Calibration Lab: GRE Metrology & Test Group CO., LTD. Address: NO.163 Pingyun Rd, West of Huangpu Ave. Guangzhou, Guangdong, China.

2. The test was performed in RF Oven room.

Calibration Method:

- a: Calibration conducted by the National Institute of Information and Communications Technology ~ NICT ~ or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~.
- b: Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) ~ Japan Calibration Service System~
- c: Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1) ~ TELEC EngineeringCenter, Intertek Japan K.K, Keysight Technologies, Inc~
- d: Calibration conducted by using other equipment that listed above from a) to c)



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION





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6 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.



7 APPENDIX A:BLE

Frequency Error

TEST RESULT

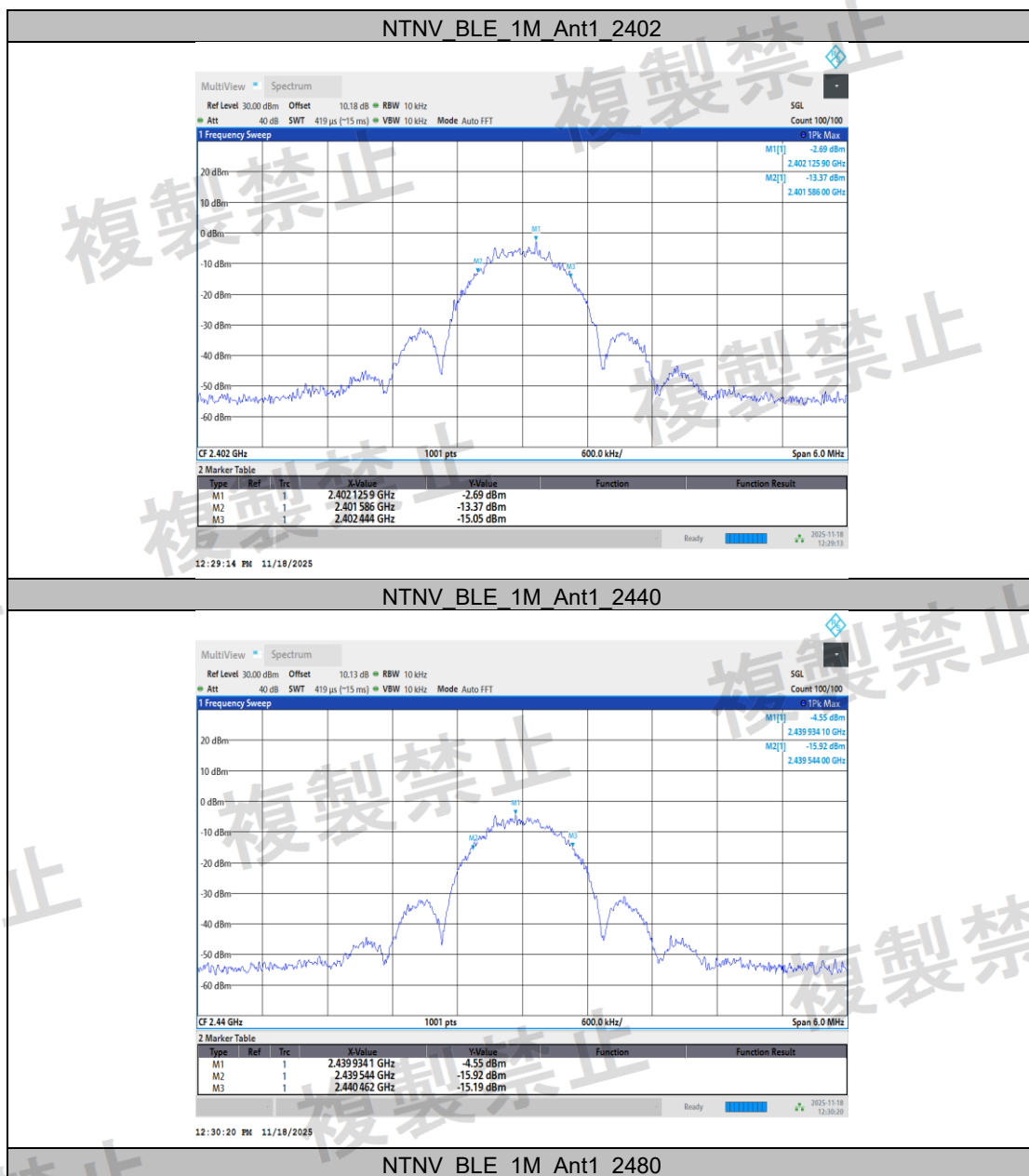
TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	+6.24480	±50	PASS
			2440	+1.22951	±50	PASS
			2480	-1.20968	±50	PASS
	BLE_2M	Ant1	2404	+4.99168	±50	PASS
			2440	+43.03279	±50	PASS
			2478	+1.21065	±50	PASS
	BLE_125 K	Ant1	2402	-1.24896	±50	PASS
			2440	-1.22951	±50	PASS
			2480	-1.20968	±50	PASS
	BLE_500 K	Ant1	2402	+0.00000	±50	PASS
			2440	+0.00000	±50	PASS
			2480	+2.41936	±50	PASS



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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

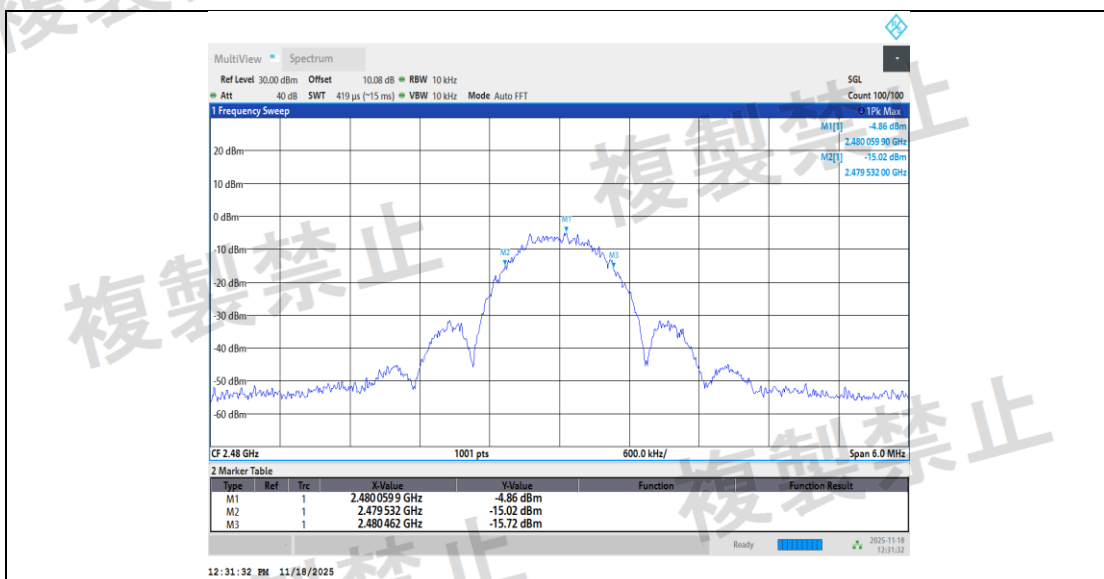
TEST GRAPHS



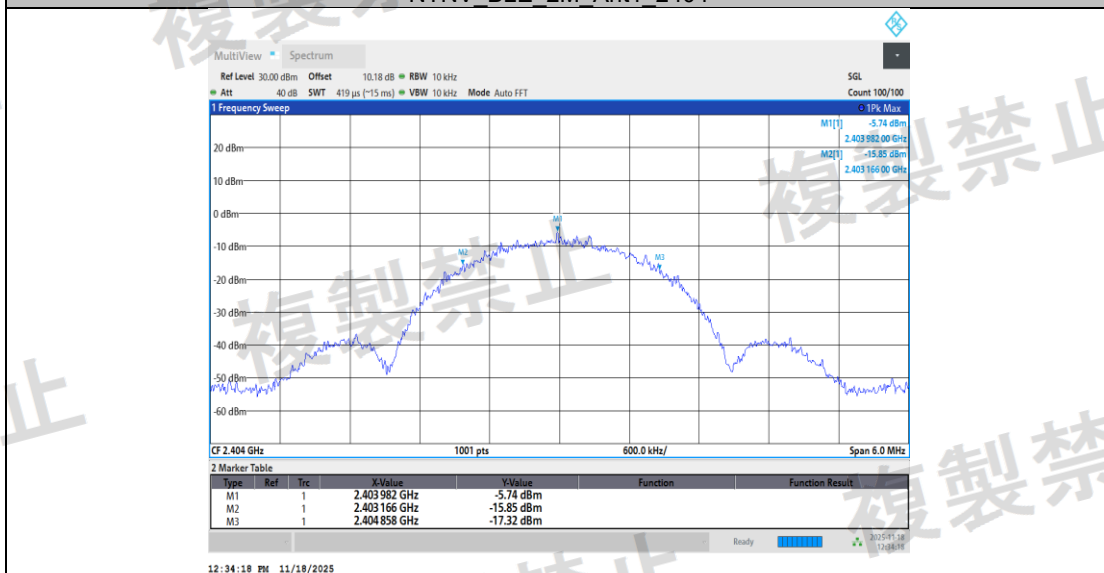


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_2M_Ant1_2404

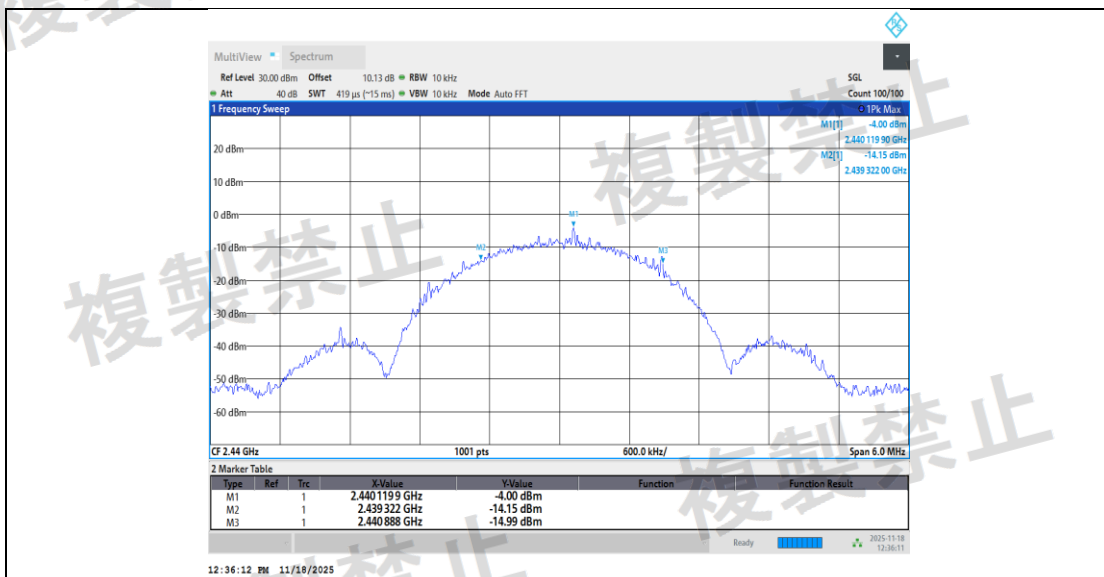


NTNV_BLE_2M_Ant1_2440

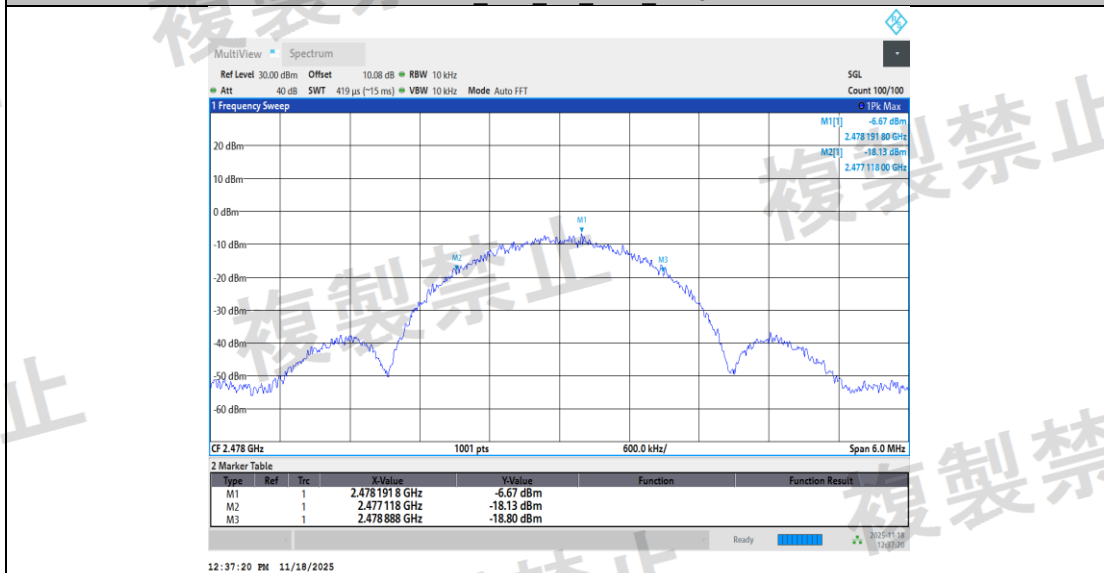


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_2M_Ant1_2478

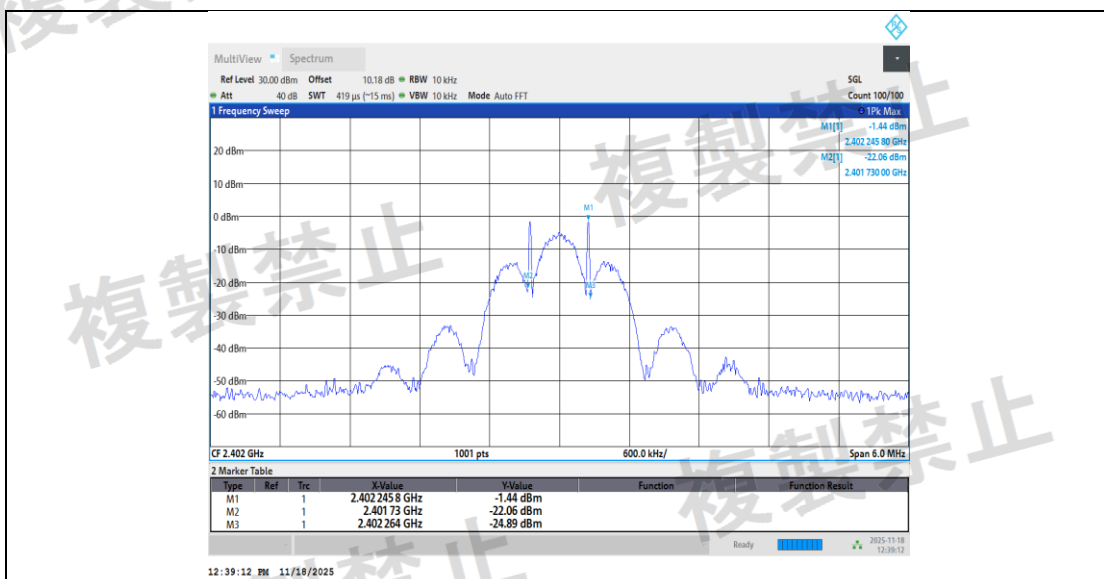


NTNV_BLE_125K_Ant1_2402

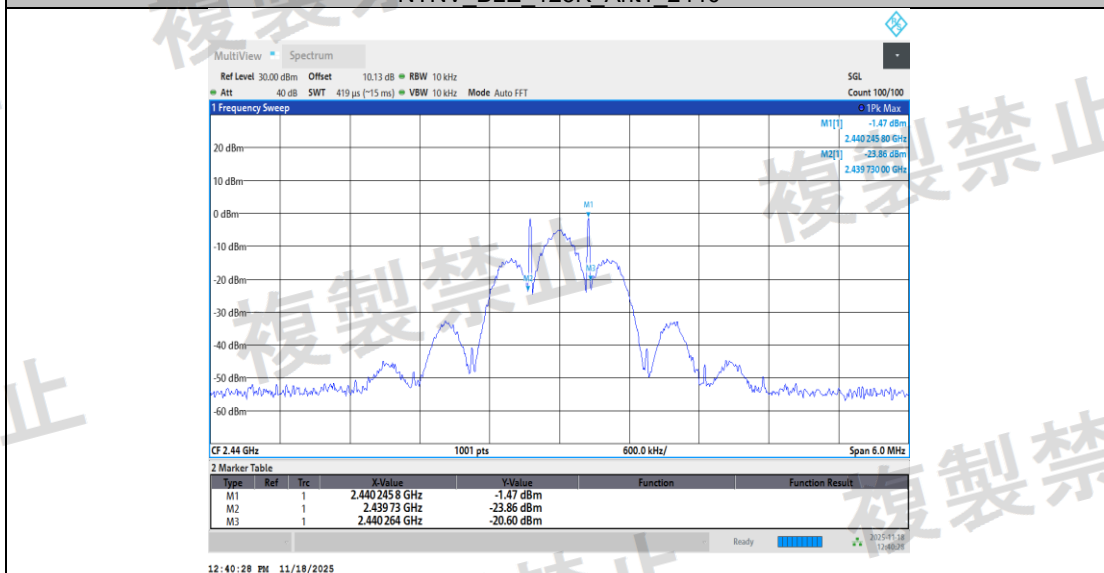


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_125K_Ant1_2440

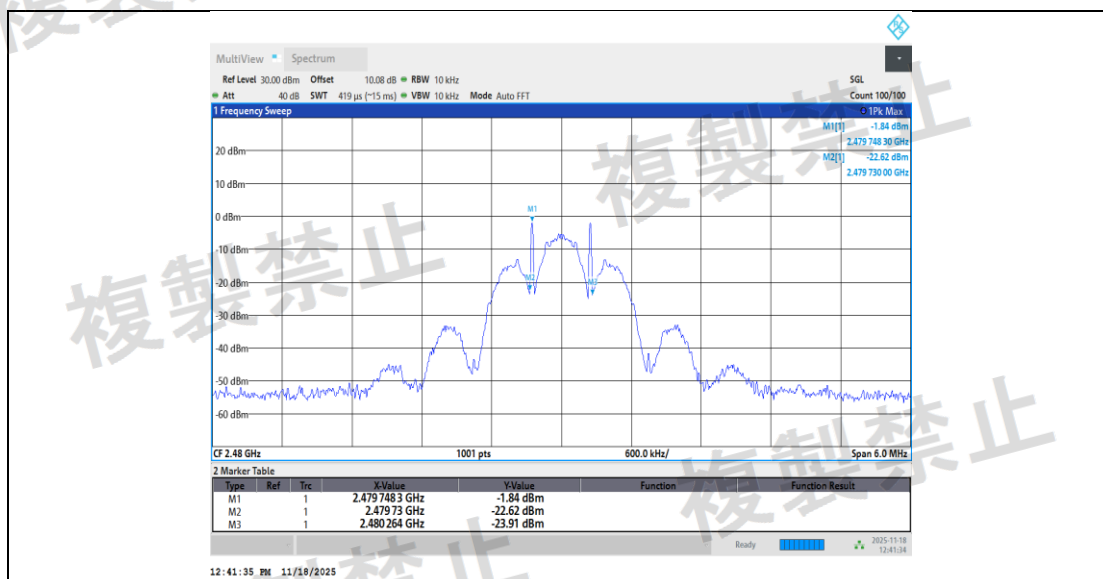


NTNV_BLE_125K_Ant1_2480

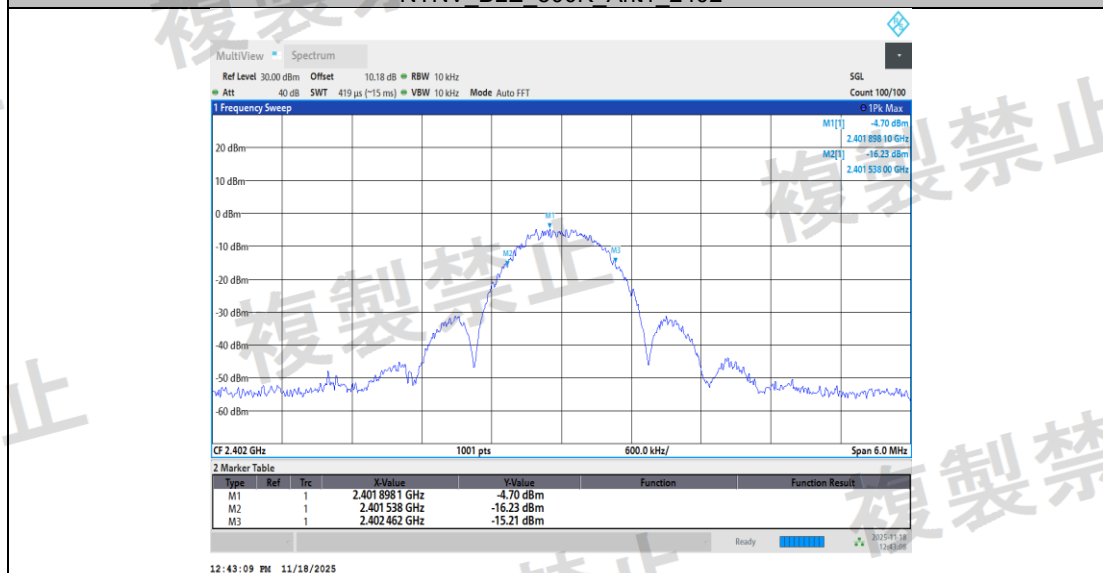


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_500K_Ant1_2402

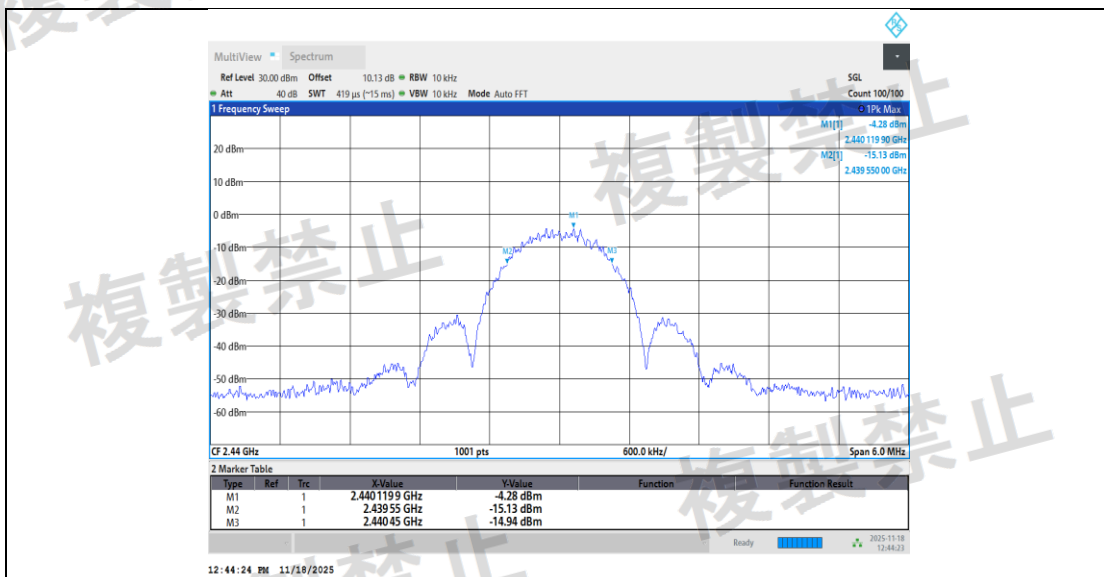


NTNV_BLE_500K_Ant1_2440

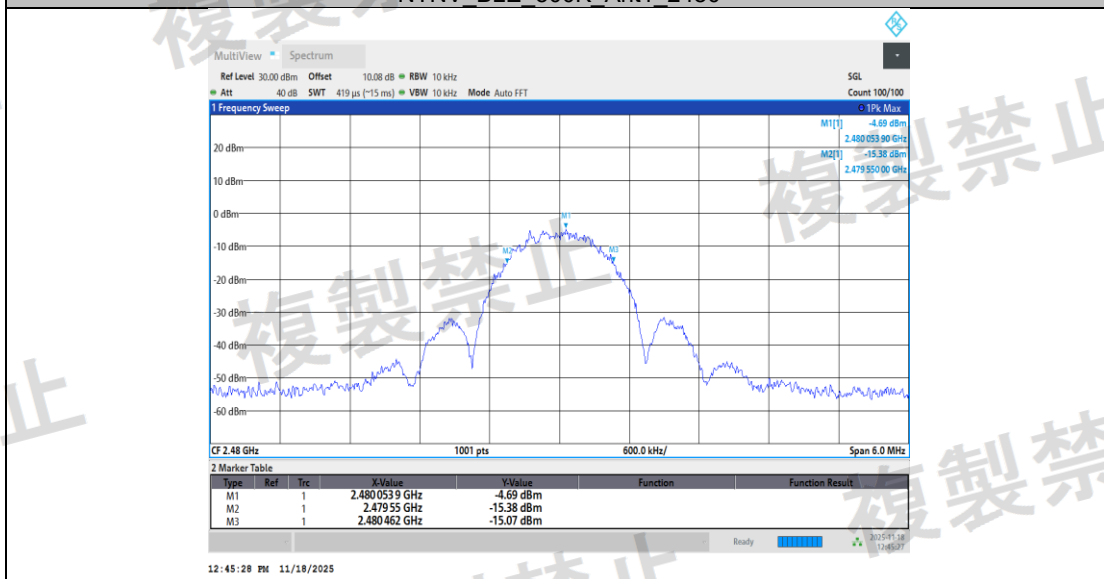


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Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_500K_Ant1_2480



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Antenna Power

TEST RESULT

Antenna Power							
TestCondition	TestMode	Antenna	Freq	Result	Result	Limit	Verdict
			(MHz)	(dBm)	(mW)	(mW)	
NTNV	BLE_125K	Ant1	2402	5.14	3.2659	≤10	PASS
			2440	5.21	3.3189	≤10	PASS
			2480	5.17	3.2885	≤10	PASS
	BLE_1M	Ant1	2402	5.32	3.4041	≤10	PASS
			2440	5.38	3.4514	≤10	PASS
			2480	5.20	3.3113	≤10	PASS
	BLE_2M	Ant1	2404	5.16	3.2810	≤10	PASS
			2440	5.22	3.3266	≤10	PASS
			2478	5.19	3.3037	≤10	PASS
	BLE_500K	Ant1	2402	5.14	3.2659	≤10	PASS
			2440	5.22	3.3266	≤10	PASS
			2480	5.18	3.2961	≤10	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)	Verdict
NTNV	BLE_125K	Ant1	2402	3.2659	3.16	+3.35	-80 to +20	PASS
			2440	3.3189	3.16	+5.03	-80 to +20	PASS
			2480	3.2885	3.16	+4.07	-80 to +20	PASS
	BLE_1M	Ant1	2402	3.4041	3.16	+7.72	-80 to +20	PASS
			2440	3.4514	3.16	+9.22	-80 to +20	PASS
			2480	3.3113	3.16	+4.79	-80 to +20	PASS
	BLE_2M	Ant1	2404	3.2810	3.16	+3.83	-80 to +20	PASS
			2440	3.3266	3.16	+5.27	-80 to +20	PASS
			2478	3.3037	3.16	+4.55	-80 to +20	PASS
	BLE_500K	Ant1	2402	3.2659	3.16	+3.35	-80 to +20	PASS
			2440	3.3266	3.16	+5.27	-80 to +20	PASS
			2480	3.2961	3.16	+4.31	-80 to +20	PASS

EIRP



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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

TestCondition	TestMode	Antenna	Freq (MHz)	Result (dBm)	EIRP (dBm)	EIRP (mW)	Limit (dBm)	Verdict
NTNV	BLE_125K	Ant1	2402	5.14	6.84	4.8306	≤12.14	PASS
			2440	5.21	6.91	4.9091	≤12.14	PASS
			2480	5.17	6.87	4.8641	≤12.14	PASS
	BLE_1M	Ant1	2402	5.32	7.02	5.0350	≤12.14	PASS
			2440	5.38	7.08	5.1050	≤12.14	PASS
			2480	5.20	6.90	4.8978	≤12.14	PASS
	BLE_2M	Ant1	2404	5.16	6.86	4.8529	≤12.14	PASS
			2440	5.22	6.92	4.9204	≤12.14	PASS
			2478	5.19	6.89	4.8865	≤12.14	PASS
	BLE_500K	Ant1	2402	5.14	6.84	4.8306	≤12.14	PASS
			2440	5.22	6.92	4.9204	≤12.14	PASS
			2480	5.18	6.88	4.8753	≤12.14	PASS



Test Report No.: PSU-QBJ2511130112RJ01

Occupied Bandwidth

TEST RESULT

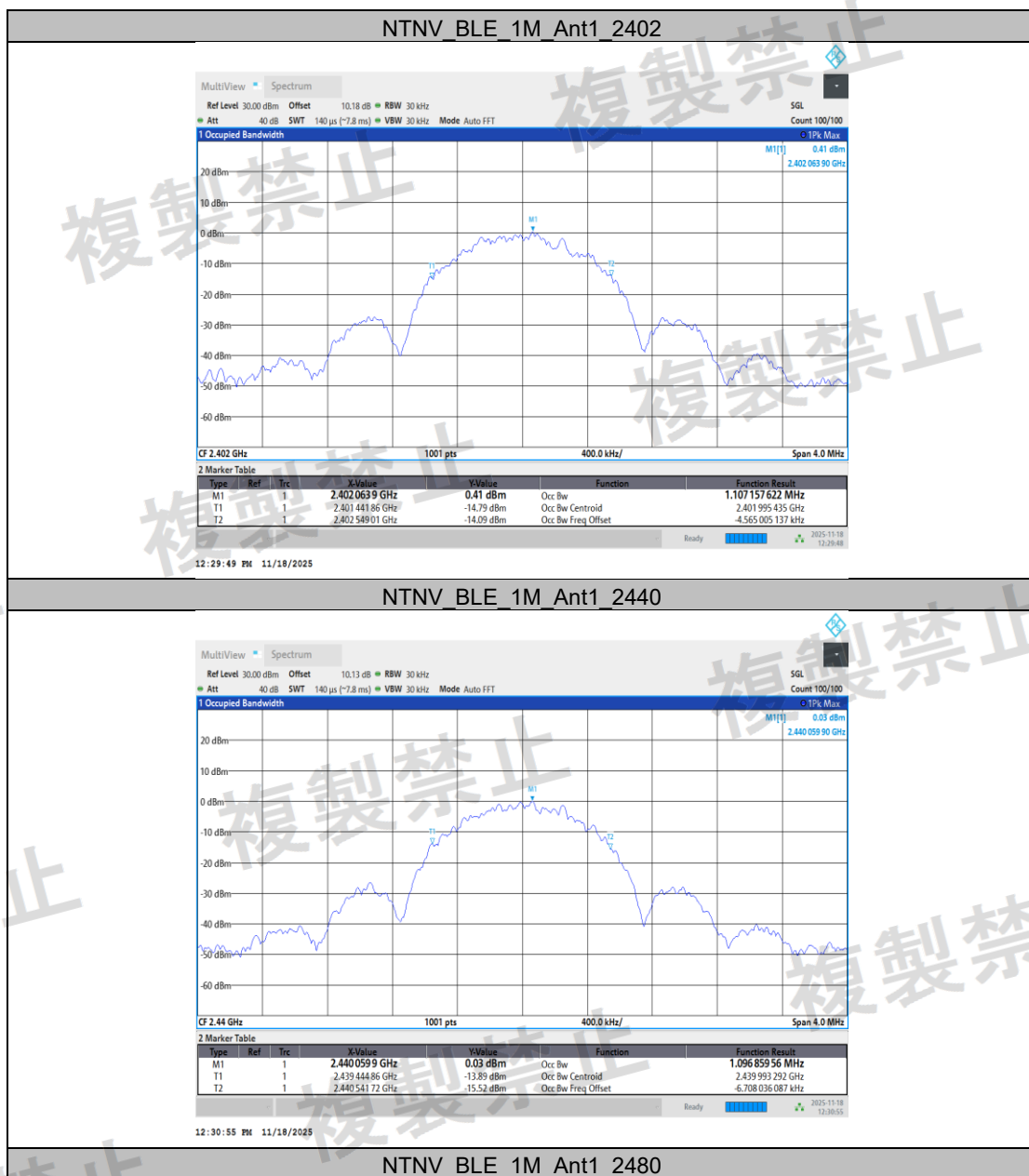
TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.107	≤26	PASS
			2440	1.097	≤26	PASS
			2480	1.095	≤26	PASS
	BLE_2M	Ant1	2404	2.051	≤26	PASS
			2440	2.054	≤26	PASS
			2478	2.060	≤26	PASS
	BLE_125 K	Ant1	2402	1.097	≤26	PASS
			2440	1.106	≤26	PASS
			2480	1.105	≤26	PASS
	BLE_500 K	Ant1	2402	1.087	≤26	PASS
			2440	1.076	≤26	PASS
			2480	1.095	≤26	PASS



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Test Report No.: PSU-QBJ2511130112RJ01

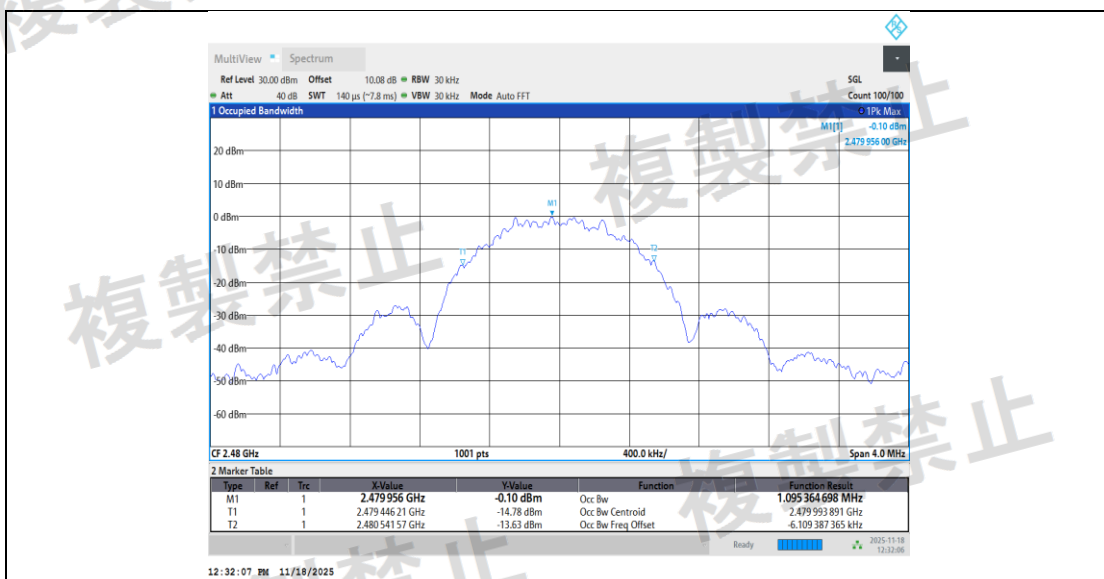
TEST GRAPHS



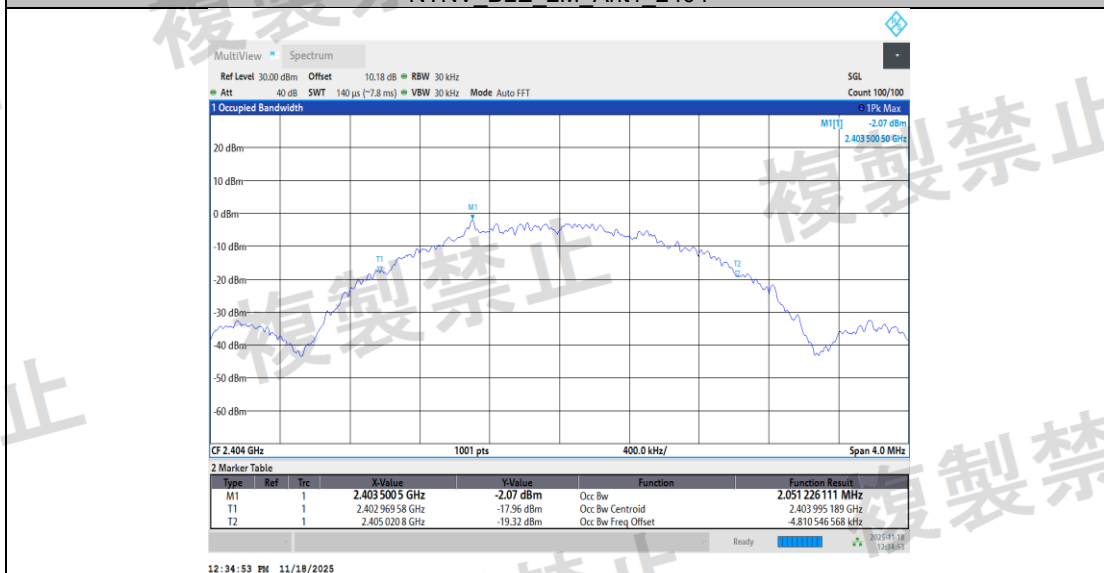


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_2M_Ant1_2404



NTNV_BLE_2M_Ant1_2440

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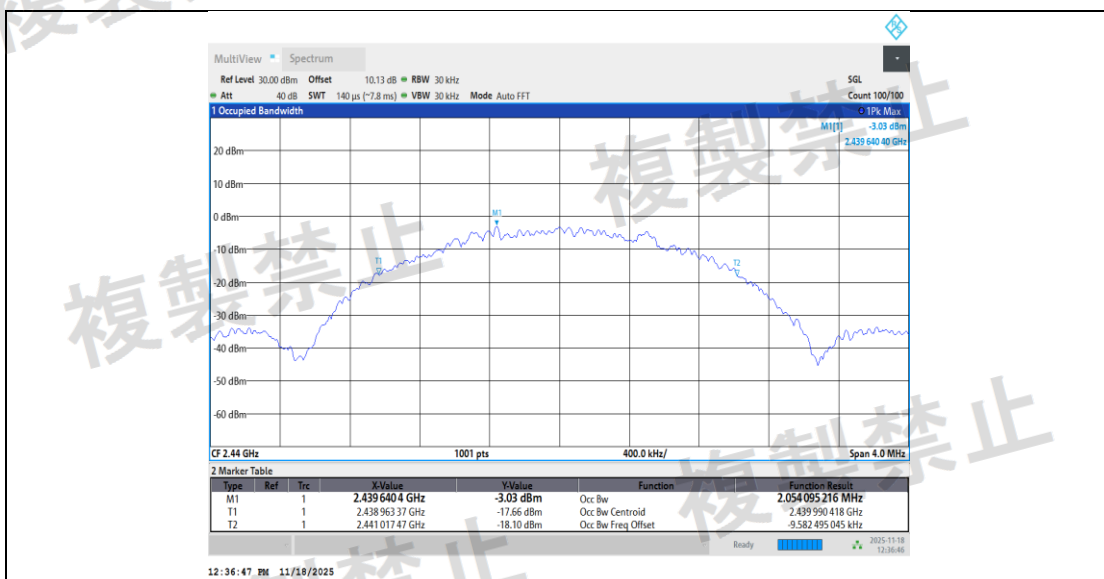
Tower N, Innovation Center, 88 Zuyi Road, High-
tech District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008

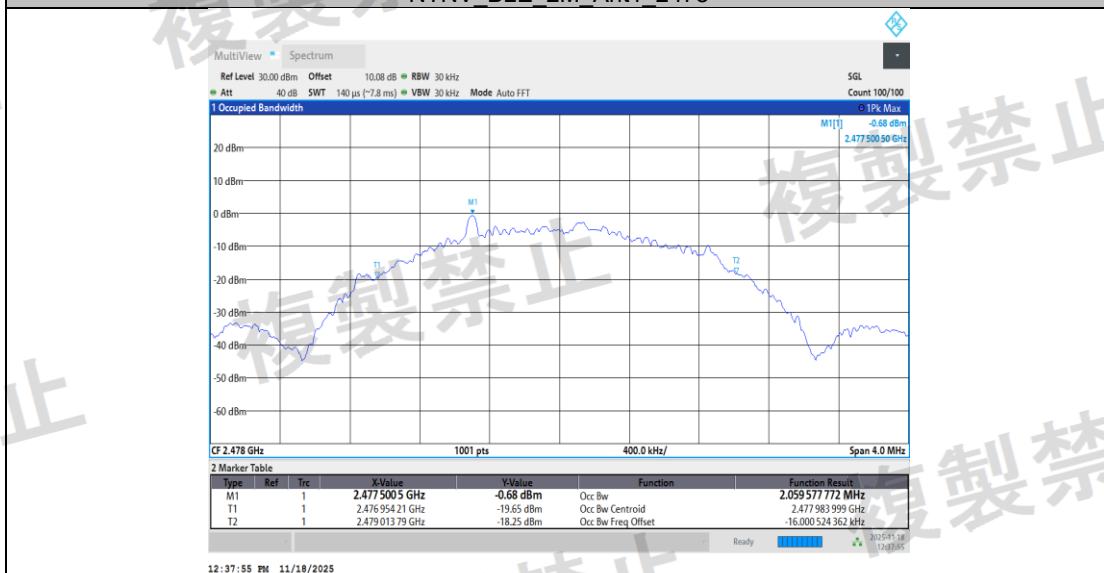


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_2M_Ant1_2478

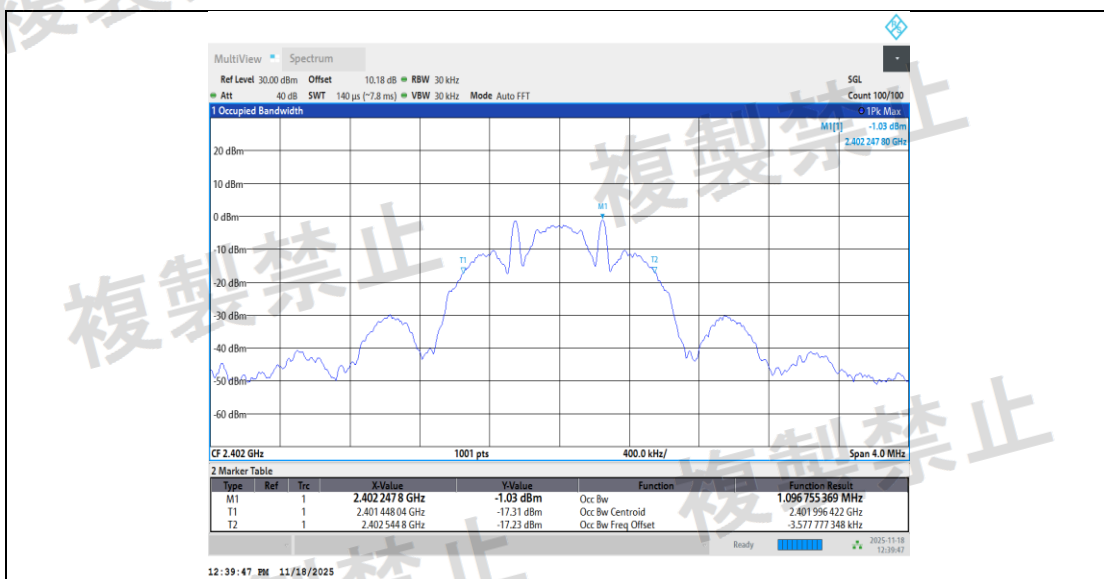


NTNV_BLE_125K_Ant1_2402

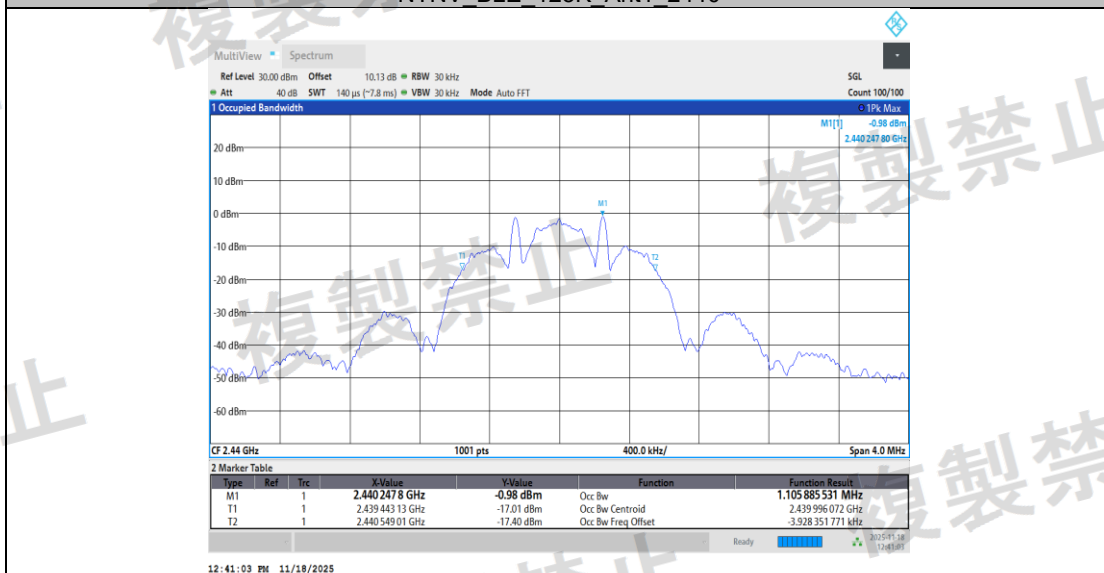


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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_125K_Ant1_2440

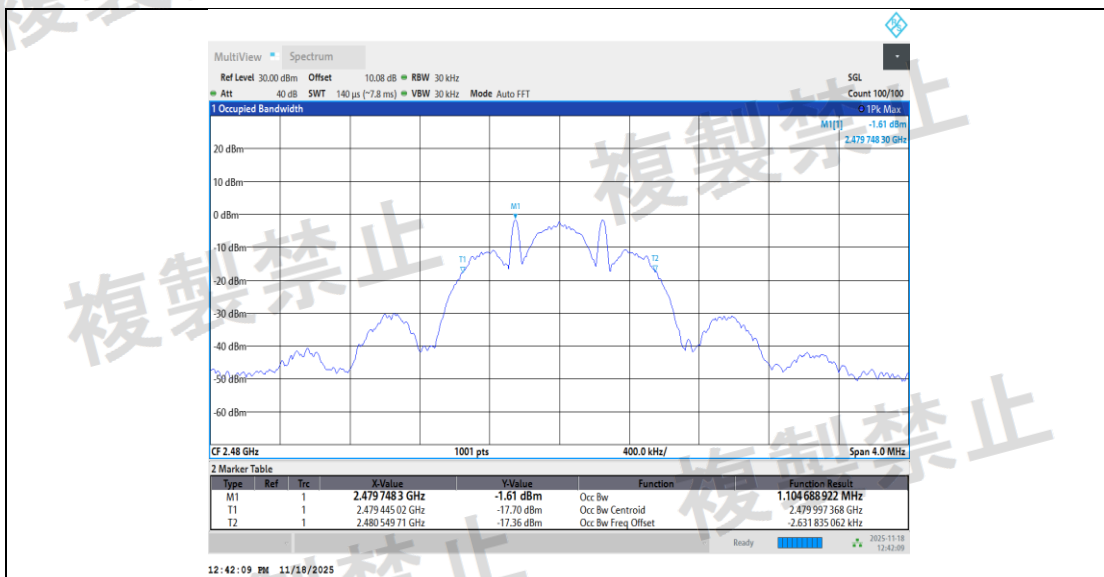


NTNV_BLE_125K_Ant1_2480

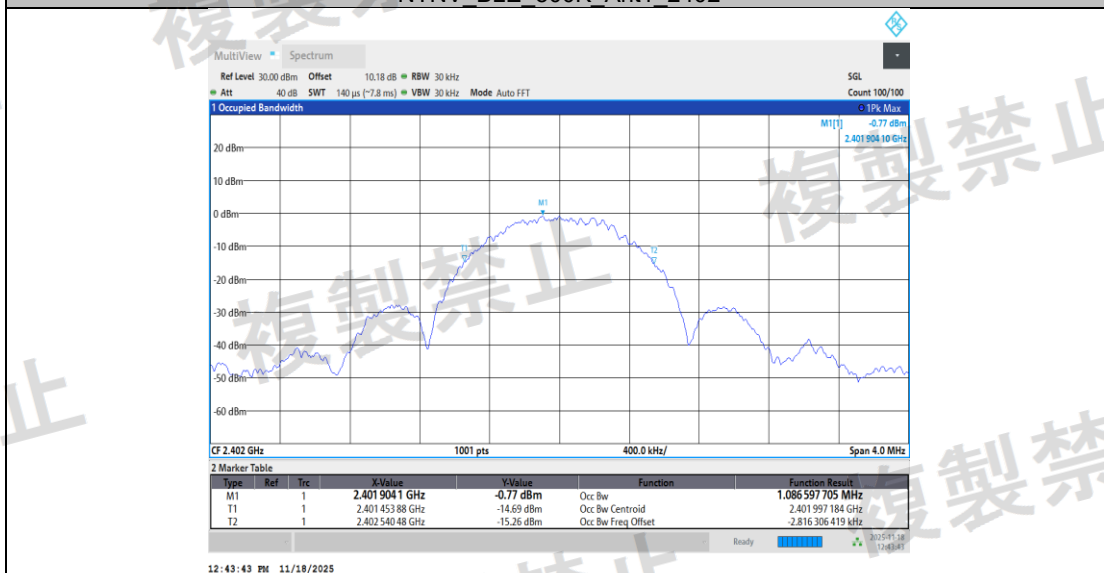


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Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_500K_Ant1_2402

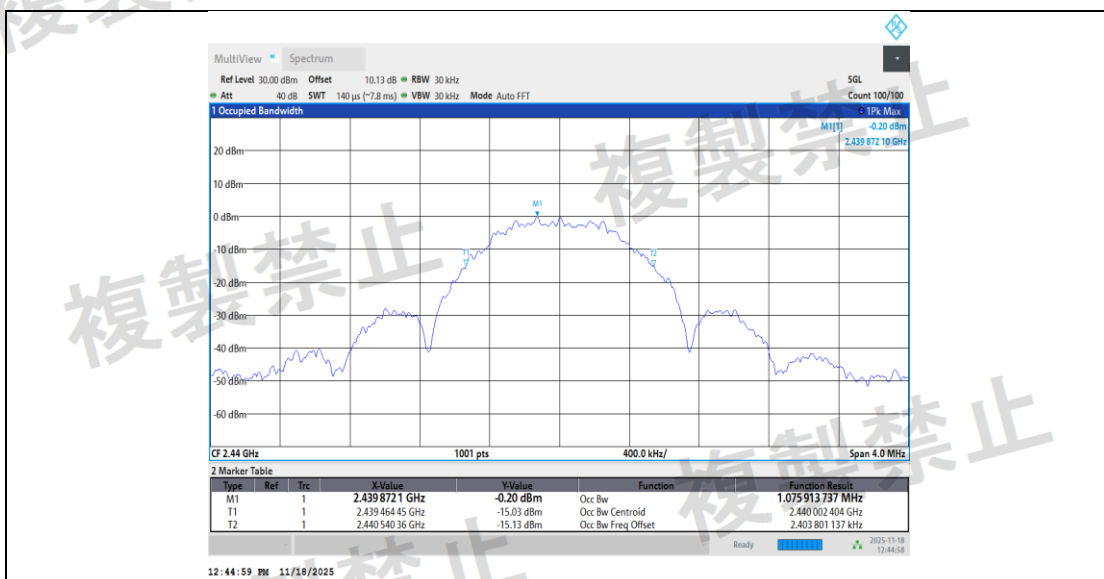


NTNV_BLE_500K_Ant1_2440

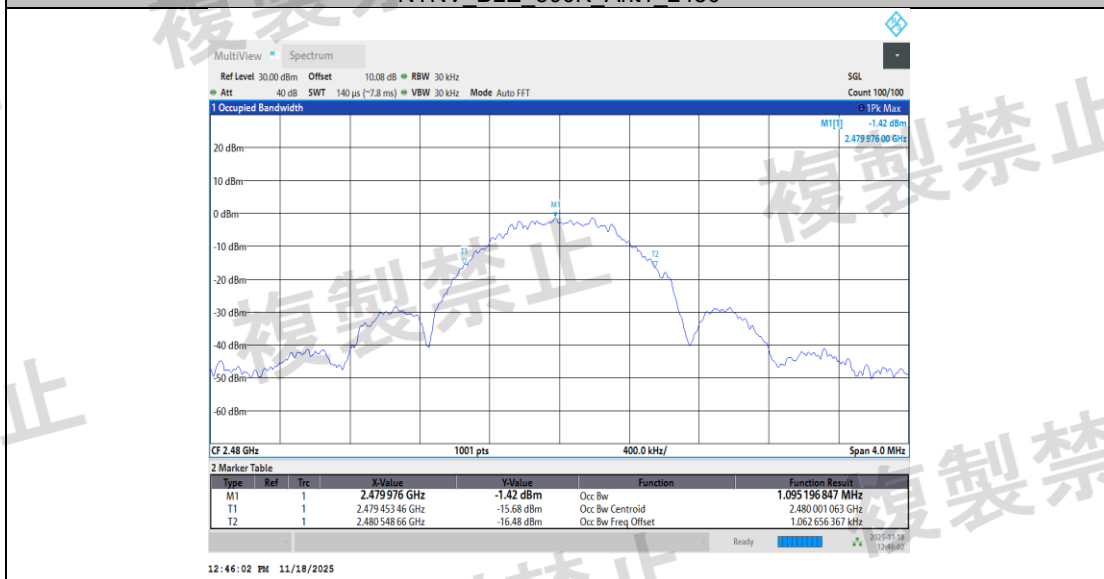


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Test Report No.: PSU-QBJ2511130112RJ01



NTNV_BLE_500K_Ant1_2480





Test Report No.: PSU-QBJ2511130112RJ01

Spurious Emission of TX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm/Mh z]	Limit [dBm/Mh z]	Result [μW/Mh z]	Limit [μW/Mh z]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	30.00	-48.79	≤-26	0.01321	≤2.5	PASS
				1000~2387	2385.27	-48.85	≤-26	0.01303	≤2.5	PASS
				2387~2400	2399.98	-25.57	≤-16	2.77332	≤25	PASS
				2483.5~2496.5	2487.80	-39.52	≤-16	0.11169	≤25	PASS
				2496.5~13000	7313.93	-45.03	≤-26	0.03141	≤2.5	PASS
			2440	30~1000	105.42	-49.80	≤-26	0.01047	≤2.5	PASS
				1000~2387	2040.25	-48.81	≤-26	0.01315	≤2.5	PASS
				2387~2400	2387.03	-39.73	≤-16	0.10641	≤25	PASS
				2483.5~2496.5	2489.55	-39.51	≤-16	0.11194	≤25	PASS
				2496.5~13000	7316.03	-45.52	≤-26	0.02805	≤2.5	PASS
			2480	30~1000	33.15	-49.43	≤-26	0.01140	≤2.5	PASS
				1000~2387	1757.65	-49.13	≤-26	0.01222	≤2.5	PASS
				2387~2400	2393.67	-39.68	≤-16	0.10765	≤25	PASS
				2483.5~2496.5	2483.83	-39.58	≤-16	0.11015	≤25	PASS
				2496.5~13000	7476.73	-44.91	≤-26	0.03228	≤2.5	PASS
	BLE_2M	Ant1	2404	30~1000	44.07	-49.32	≤-26	0.01169	≤2.5	PASS
				1000~2387	2220.56	-48.85	≤-26	0.01303	≤2.5	PASS
				2387~2400	2393.01	-38.81	≤-16	0.13152	≤25	PASS
				2483.5~2496.5	2492.81	-39.86	≤-16	0.10328	≤25	PASS
				2496.5~13000	6384.90	-43.90	≤-26	0.04074	≤2.5	PASS
			2440	30~1000	70.50	-49.45	≤-26	0.01135	≤2.5	PASS
				1000~2387	2314.88	-49.16	≤-26	0.01213	≤2.5	PASS
				2387~2400	2393.66	-40.22	≤-16	0.09506	≤25	PASS
				2483.5~2496.5	2487.80	-39.66	≤-16	0.10814	≤25	PASS
				2496.5~13000	7415.81	-44.94	≤-26	0.03206	≤2.5	PASS
			2478	30~1000	34.37	-49.77	≤-26	0.01054	≤2.5	PASS
				1000~2387	1715.00	-49.16	≤-26	0.01213	≤2.5	PASS
				2387~2400	2389.45	-40.10	≤-16	0.09772	≤25	PASS
				2483.5~2496.5	2484.09	-39.58	≤-16	0.11015	≤25	PASS
				2496.5~13000	7499.84	-46.13	≤-26	0.02438	≤2.5	PASS
	BLE_125 K	Ant1	2402	30~1000	39.22	-49.11	≤-26	0.01227	≤2.5	PASS
				1000~2387	1830.12	-48.71	≤-26	0.01346	≤2.5	PASS
				2387~2400	2399.99	-25.09	≤-16	3.09742	≤25	PASS
				2483.5~2496.5	2491.99	-40.01	≤-16	0.09977	≤25	PASS
				2496.5~13000	6972.04	-44.07	≤-26	0.03917	≤2.5	PASS
			2440	30~1000	103.72	-48.91	≤-26	0.01285	≤2.5	PASS
				1000~2387	2198.37	-49.22	≤-26	0.01197	≤2.5	PASS
				2387~2400	2392.71	-39.65	≤-16	0.10839	≤25	PASS
				2483.5~2496.5	2485.03	-39.40	≤-16	0.11482	≤25	PASS
				2496.5~13000	7495.12	-45.29	≤-26	0.02958	≤2.5	PASS
			2480	30~1000	30.97	-49.23	≤-26	0.01194	≤2.5	PASS
				1000~2387	2376.25	-48.16	≤-26	0.01528	≤2.5	PASS
				2387~2400	2387.03	-39.93	≤-16	0.10162	≤25	PASS
				2483.5~2496.5	2488.45	-39.99	≤-16	0.10023	≤25	PASS
				2496.5~13000	6337.63	-45.38	≤-26	0.02897	≤2.5	PASS

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	BLE_500 K	Ant1	2402	30~1000	34.61	-49.60	≤-26	0.01096	≤2.5	PASS
				1000~2387	2170.63	-49.18	≤-26	0.01208	≤2.5	PASS
				2387~2400	2400.00	-25.49	≤-16	2.82488	≤25	PASS
				2483.5~2496.5	2489.64	-39.61	≤-16	0.10940	≤25	PASS
				2496.5~13000	7343.34	-45.54	≤-26	0.02793	≤2.5	PASS
			2440	30~1000	34.85	-49.68	≤-26	0.01076	≤2.5	PASS
				1000~2387	2187.27	-49.27	≤-26	0.01183	≤2.5	PASS
				2387~2400	2395.46	-39.74	≤-16	0.10617	≤25	PASS
				2483.5~2496.5	2496.06	-39.92	≤-16	0.10186	≤25	PASS
				2496.5~13000	7394.28	-44.03	≤-26	0.03954	≤2.5	PASS
			2480	30~1000	31.94	-49.13	≤-26	0.01222	≤2.5	PASS
				1000~2387	2200.45	-47.84	≤-26	0.01644	≤2.5	PASS
				2387~2400	2396.17	-39.87	≤-16	0.10304	≤25	PASS
				2483.5~2496.5	2485.67	-39.12	≤-16	0.12246	≤25	PASS
				2496.5~13000	6422.71	-45.28	≤-26	0.02965	≤2.5	PASS

Note:

Final Value (μW/MHz)={10^(Final Value (dBm/MHz)/10)}*1000.

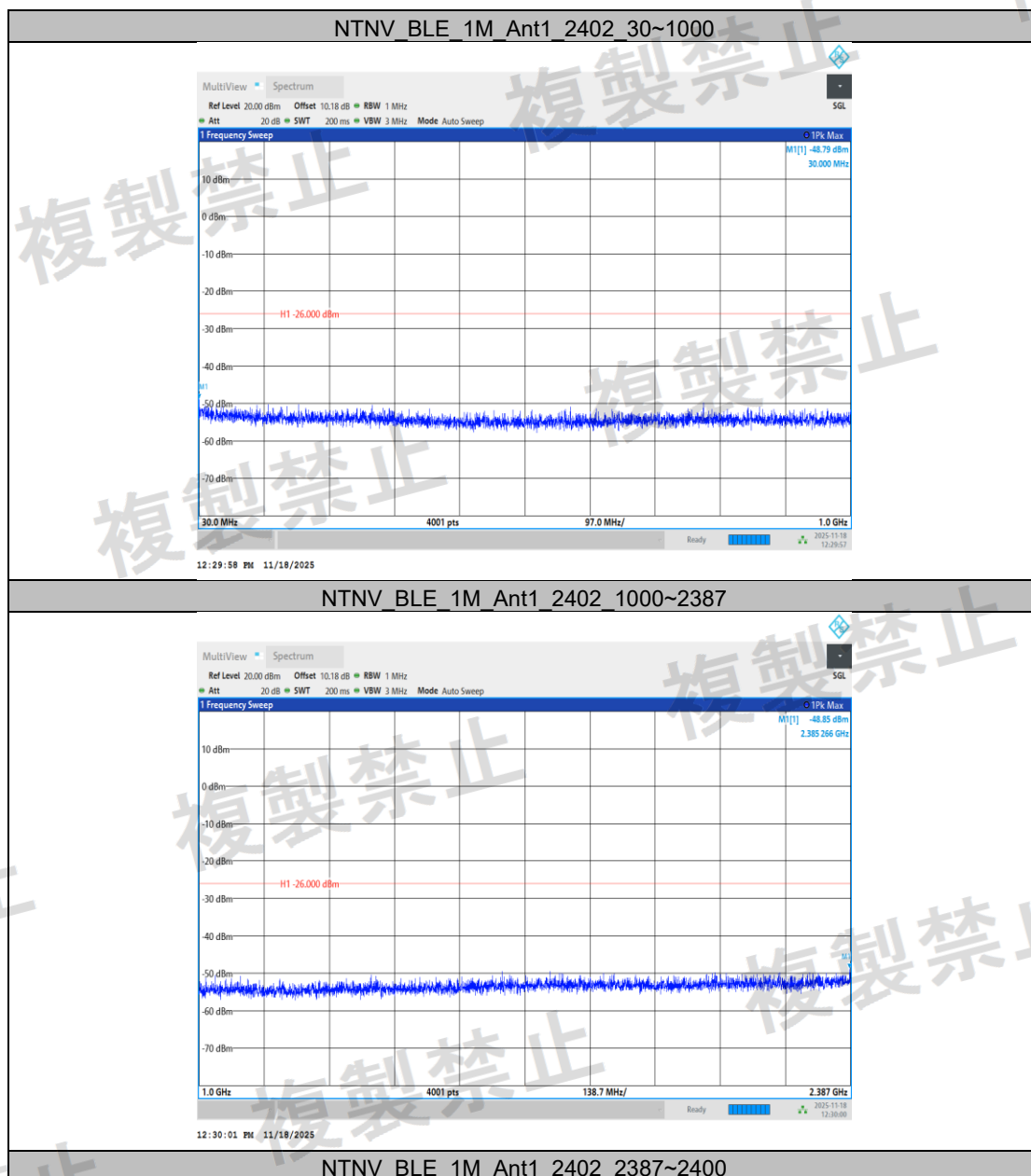
The Final Value were the results of the mode ANT 1, and we considered the worst case that the maximum value for Ant 1 added 3.01.



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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

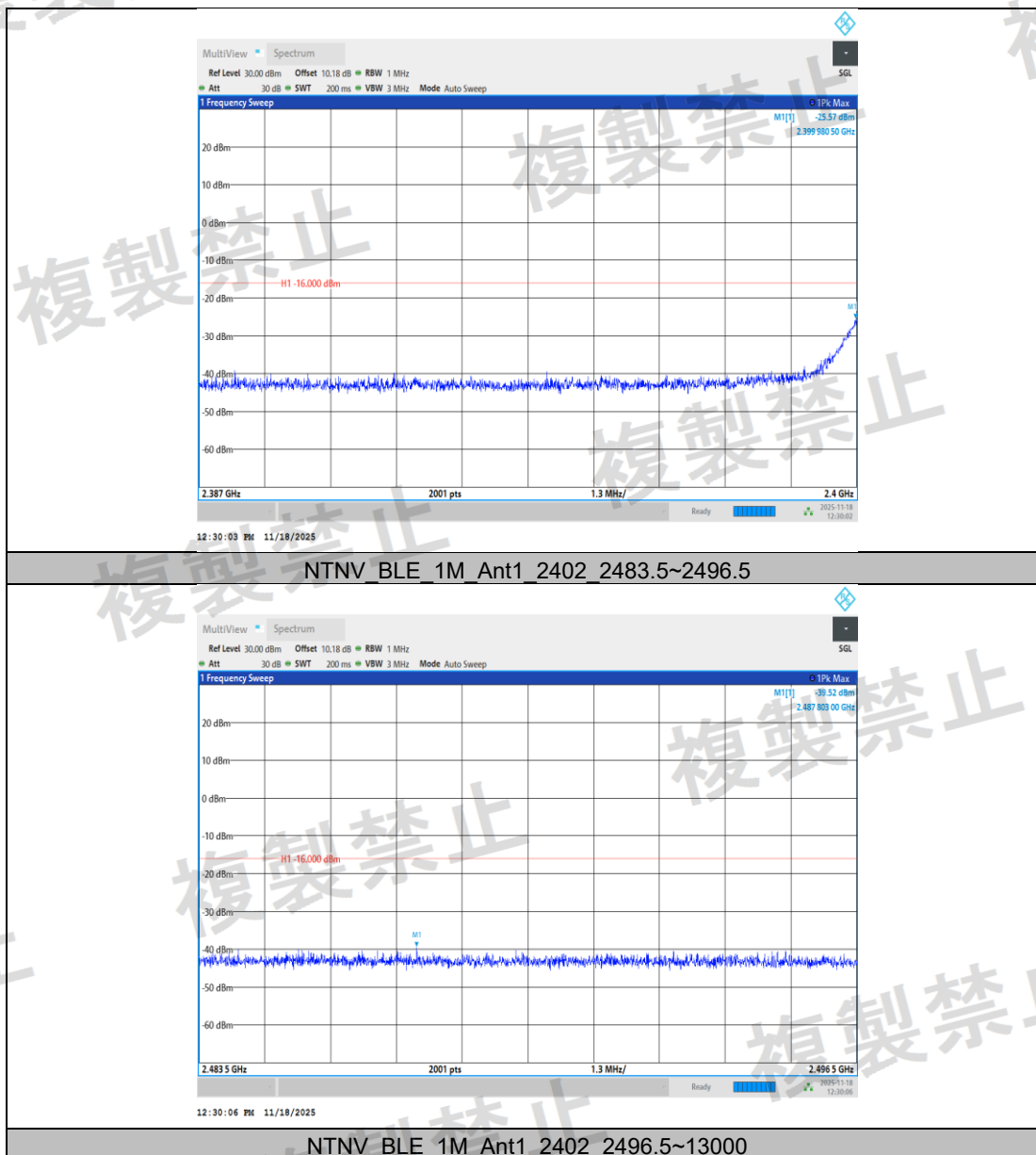
TEST GRAPHS





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VERITAS

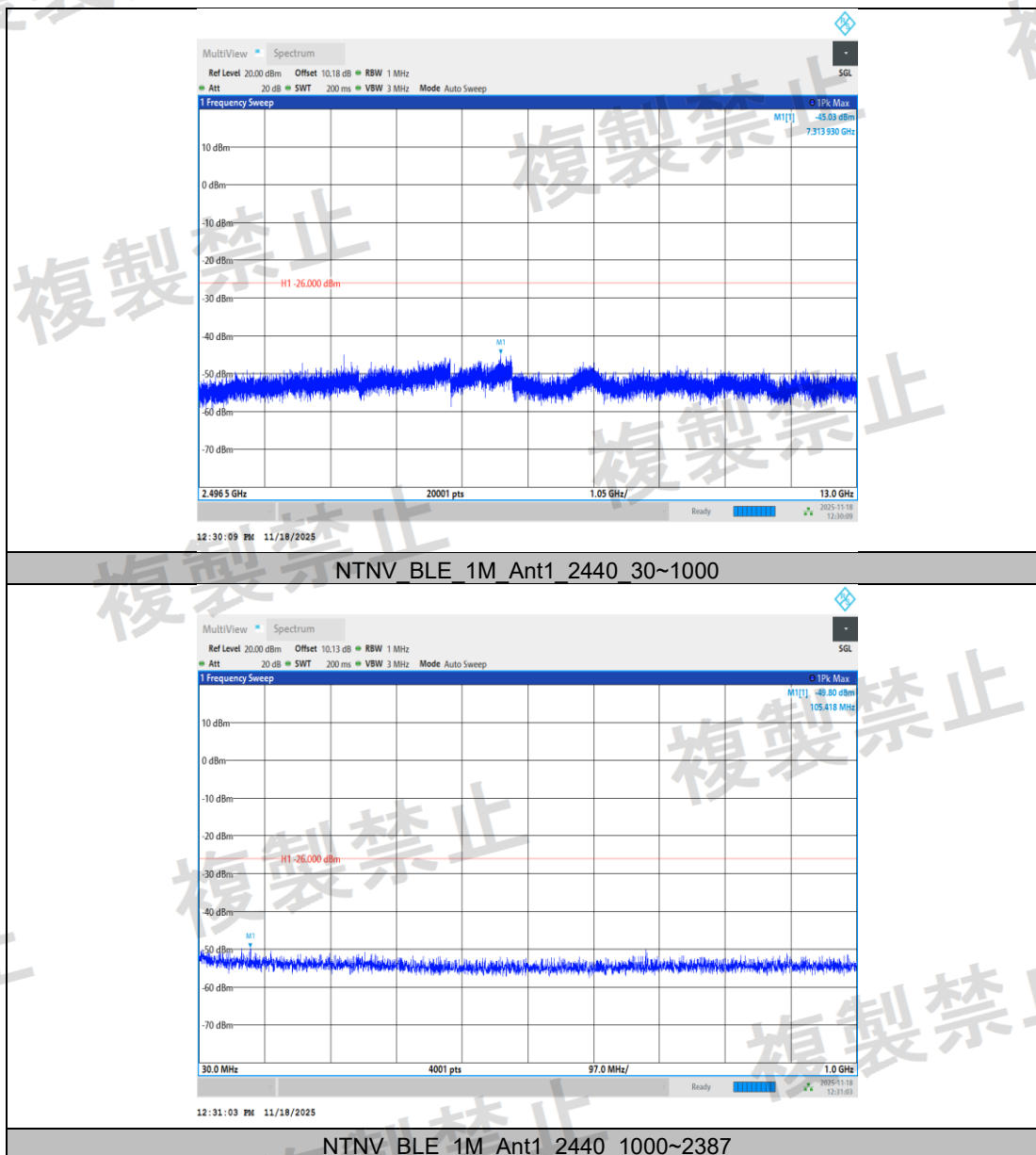
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

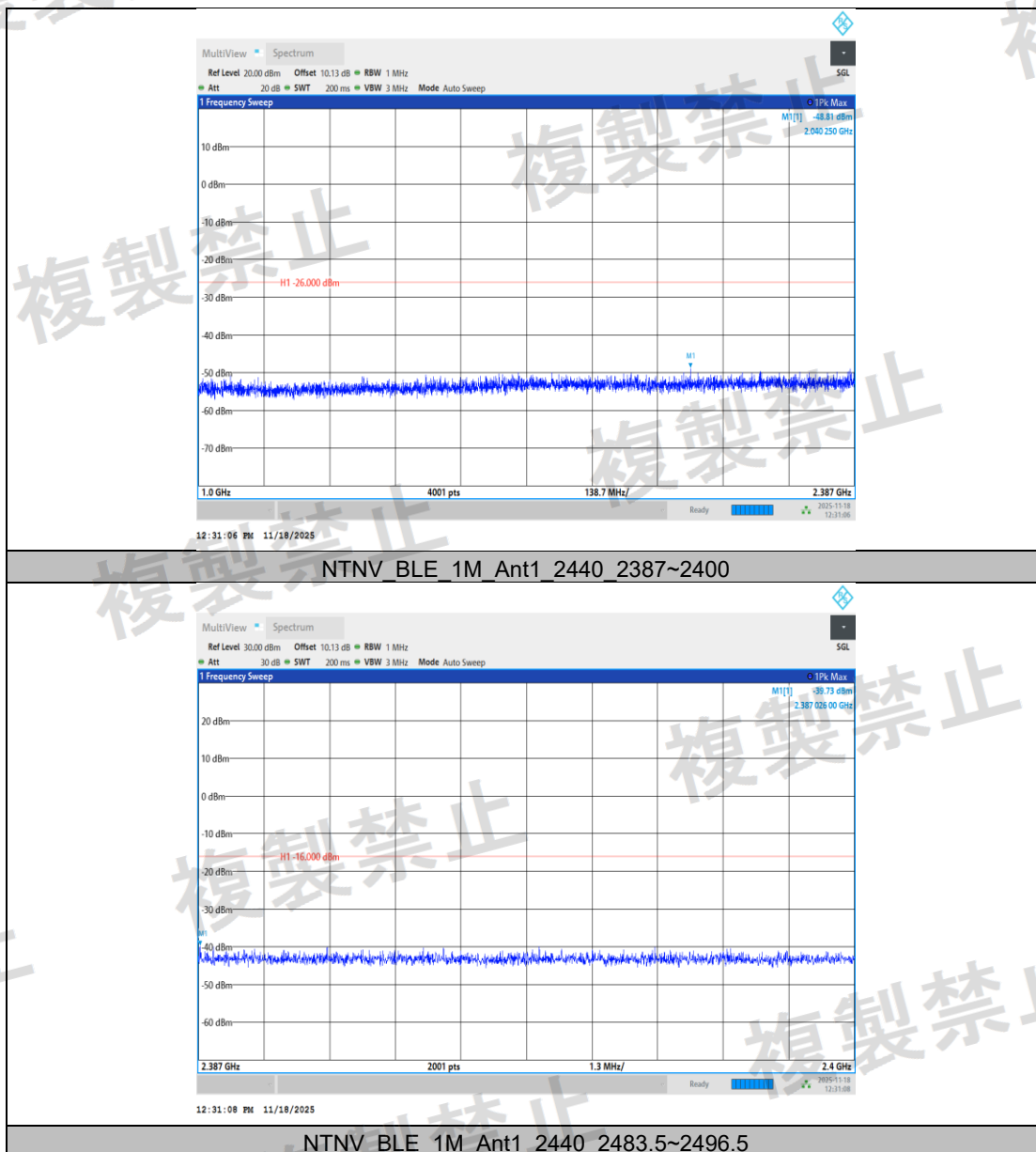
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01



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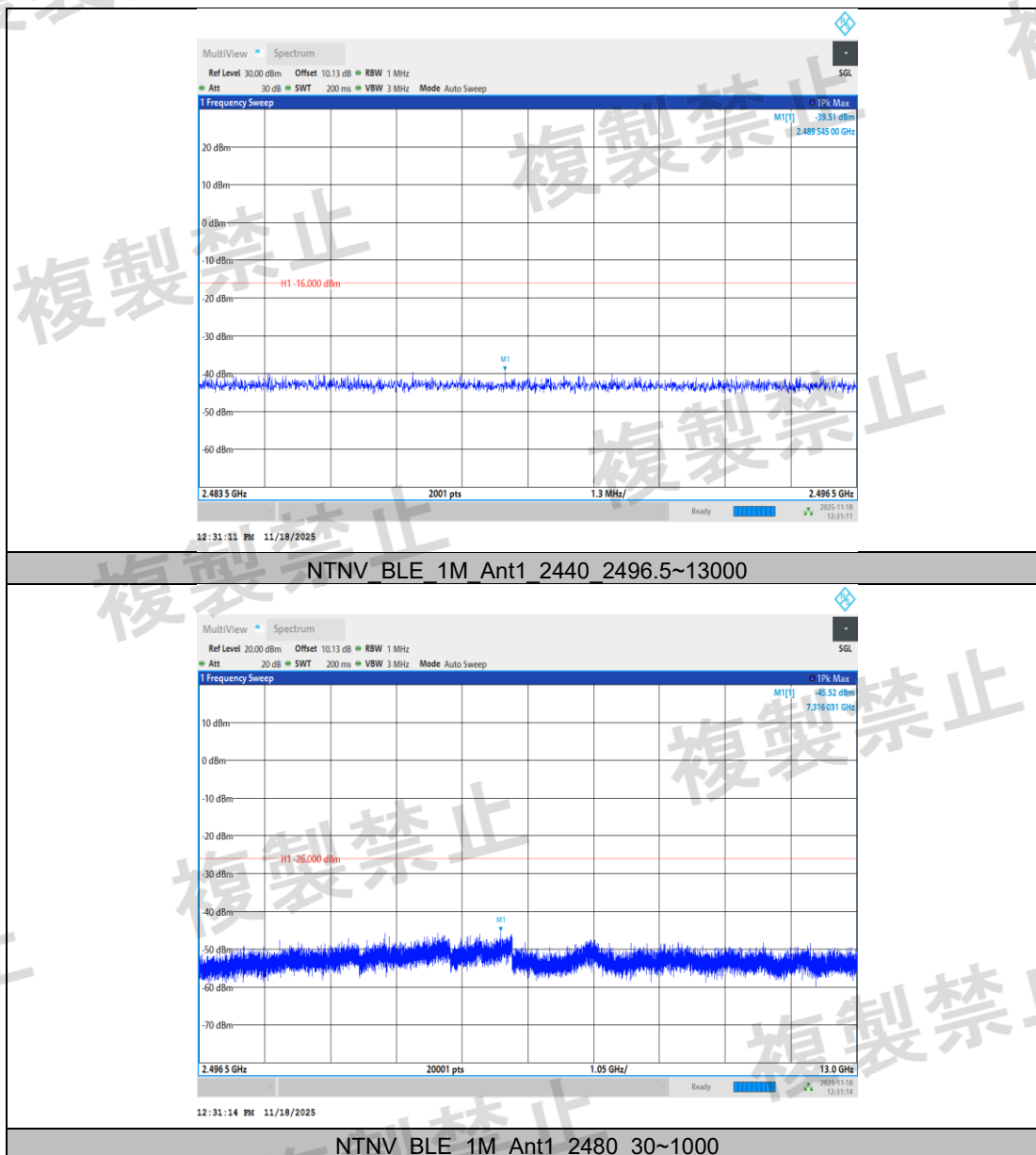
Tower N, Innovation Center, 88 Zuyi Road, High-
tech District, Suzhou City, Anhui Province, China

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VERITAS

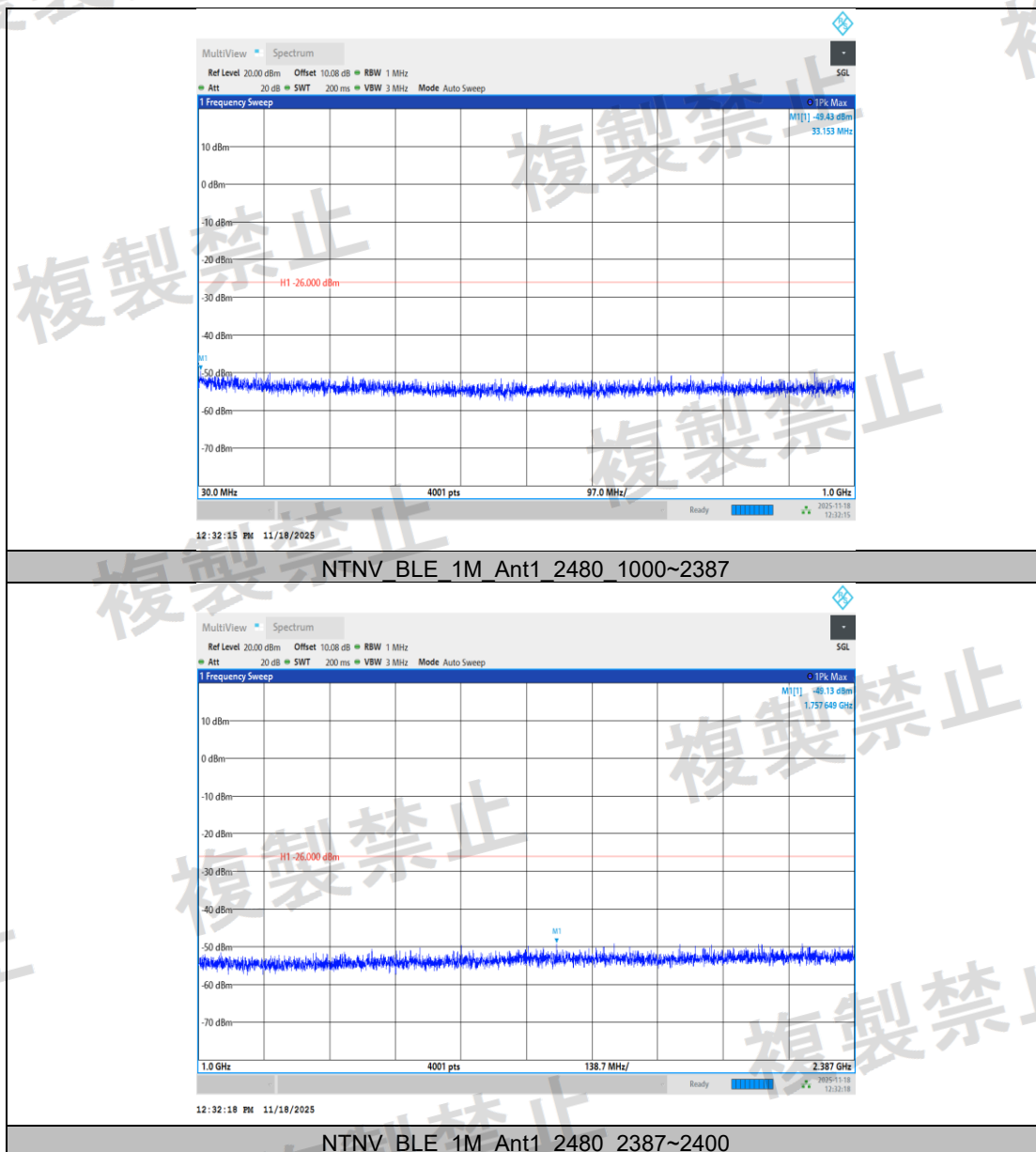
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

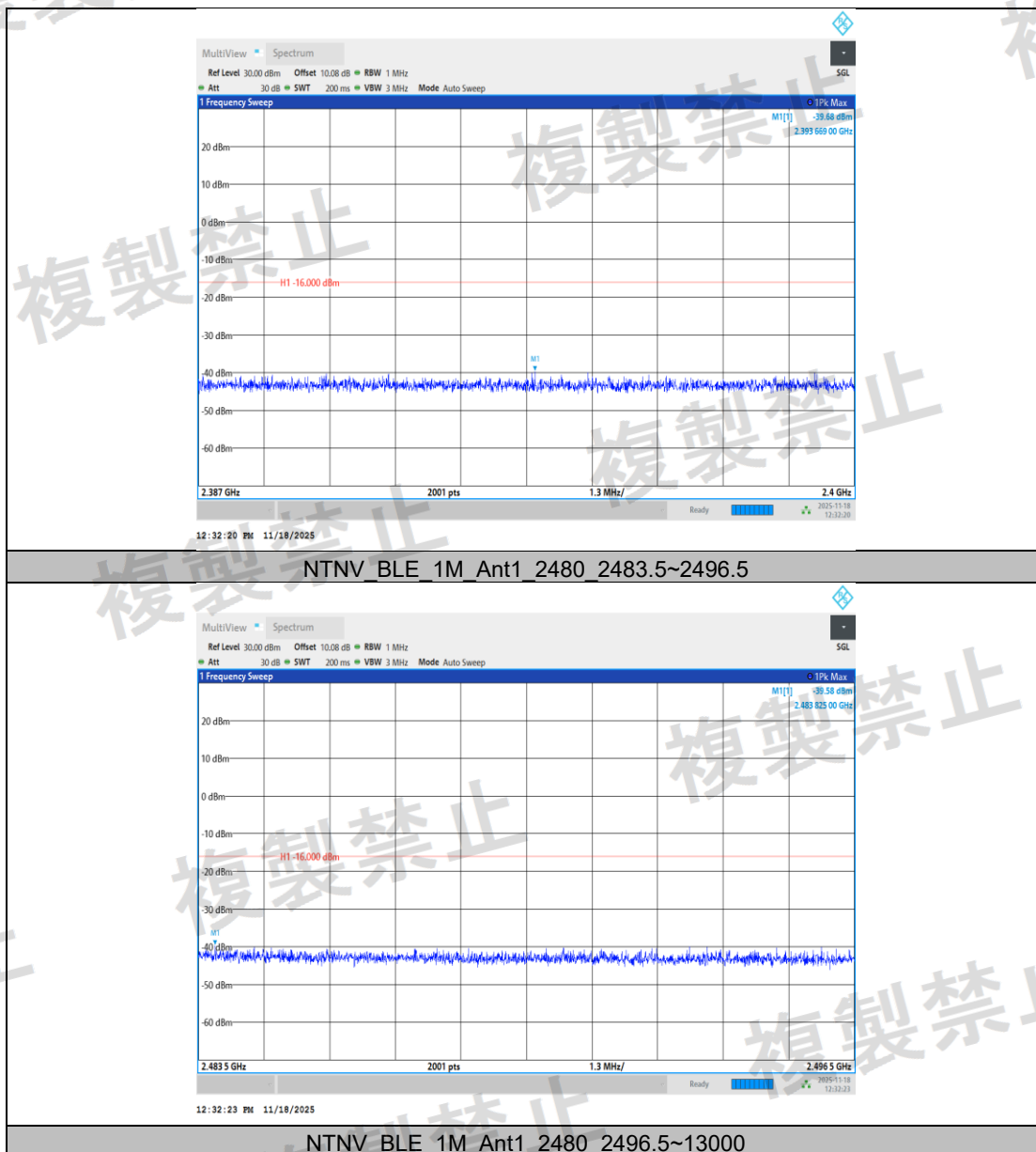
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

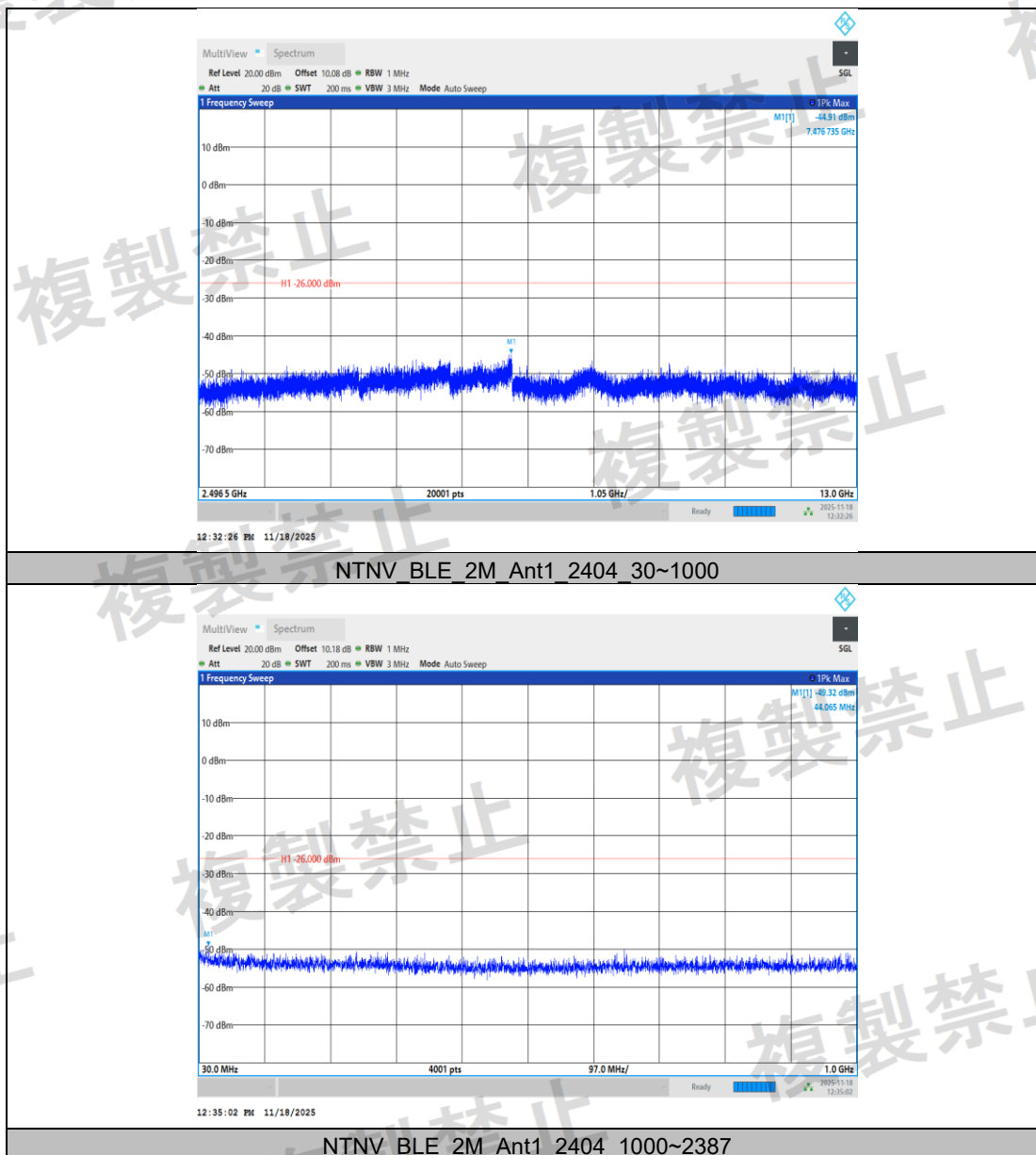
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

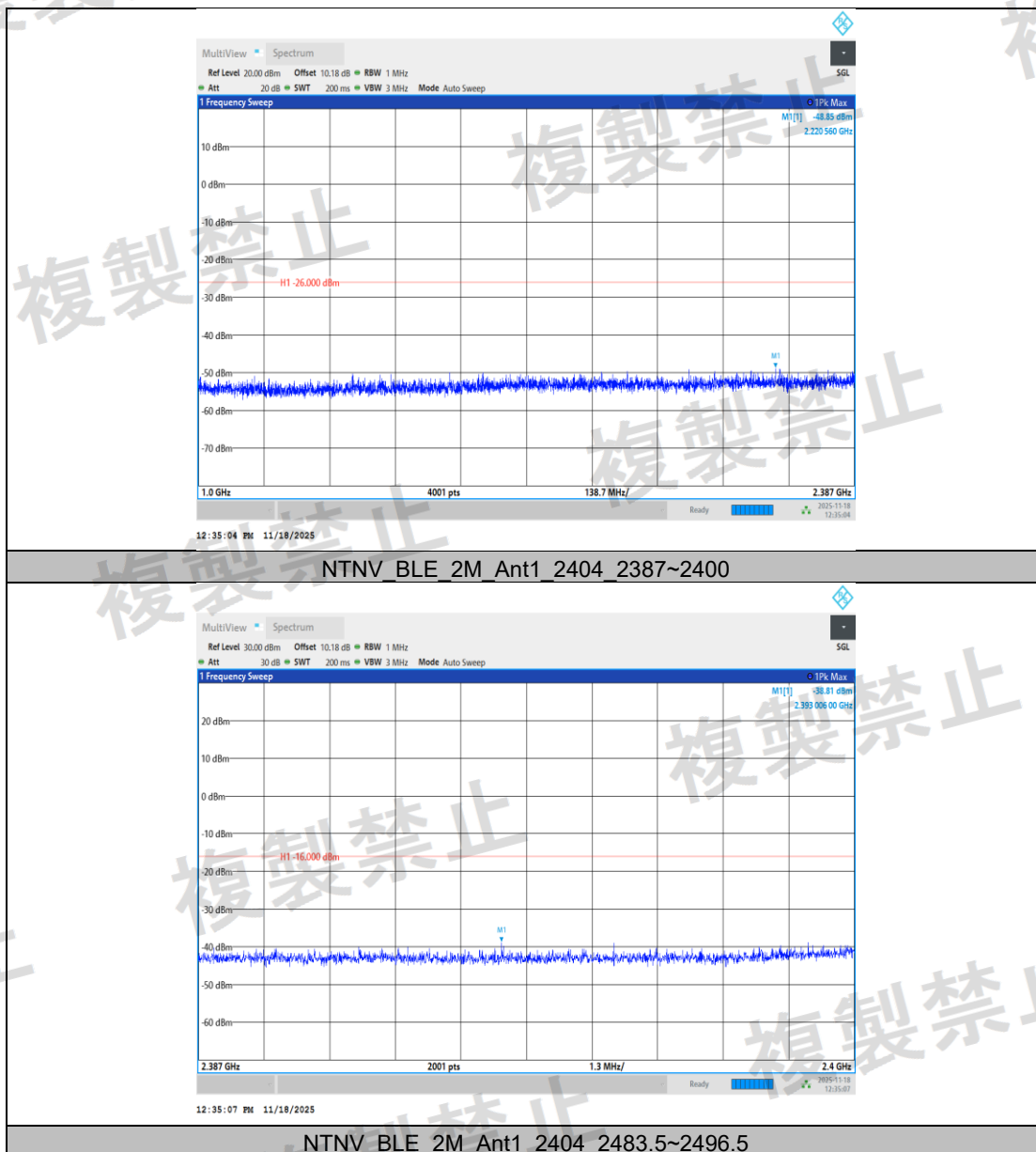
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

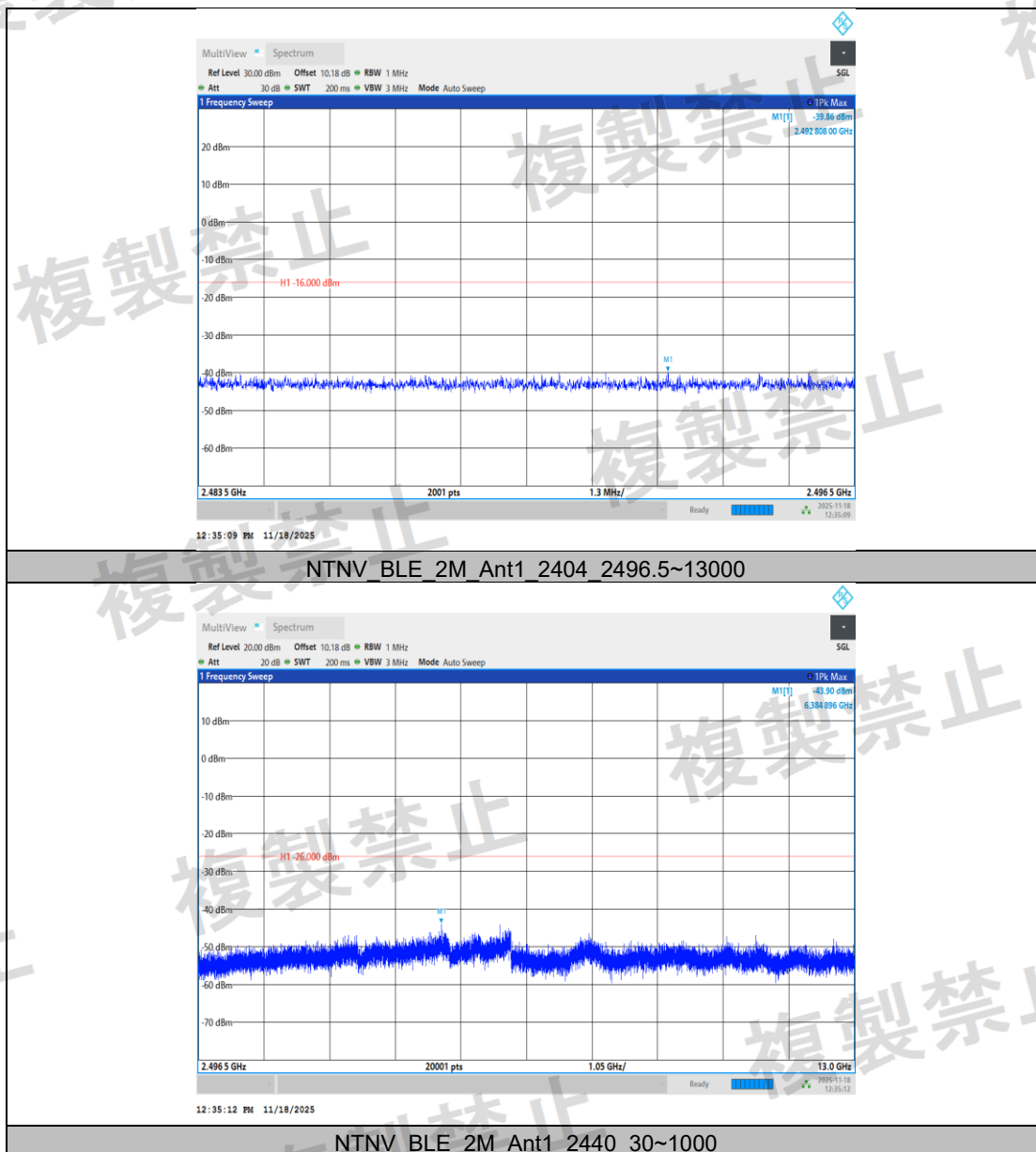
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

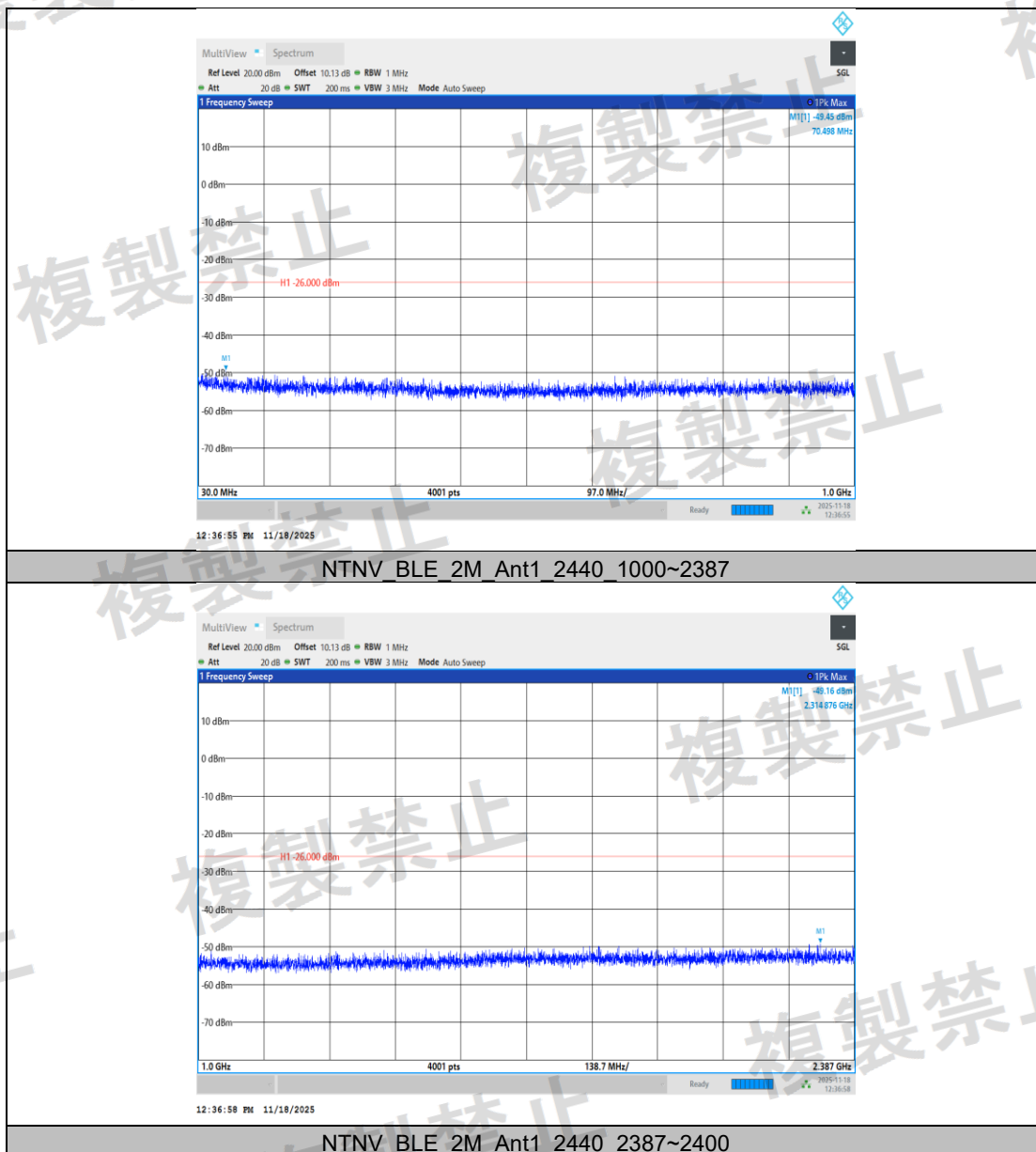
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

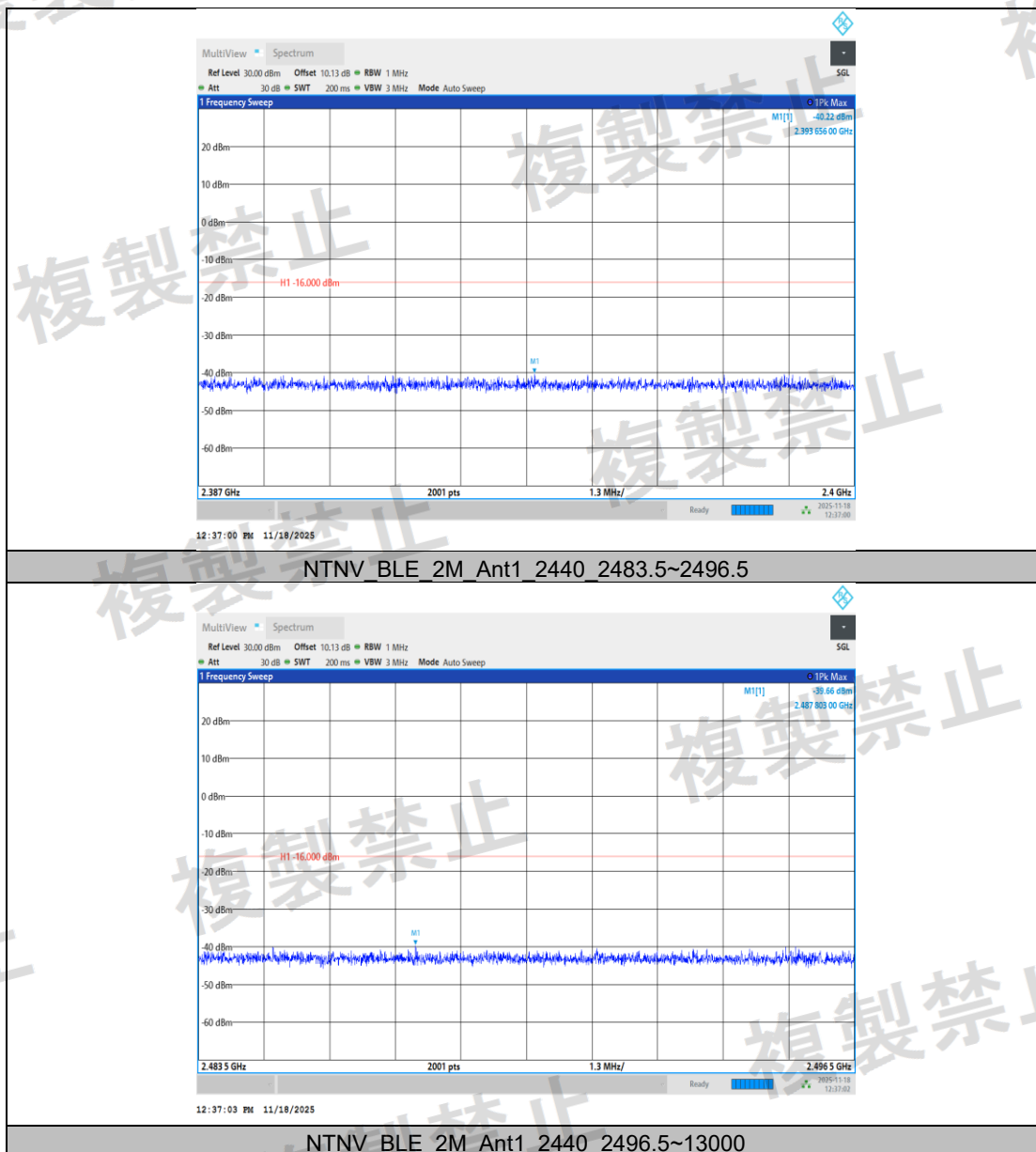
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

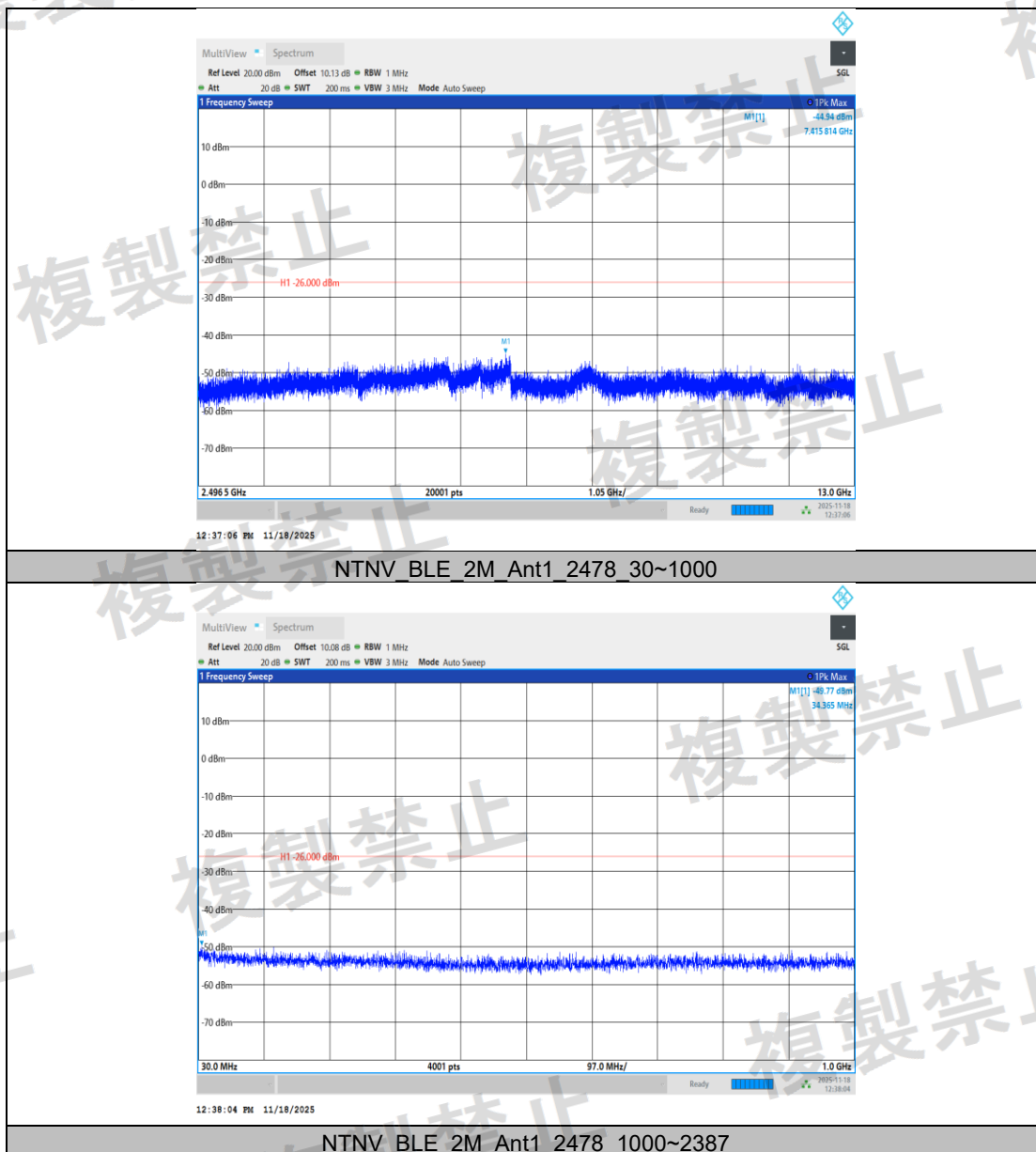
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

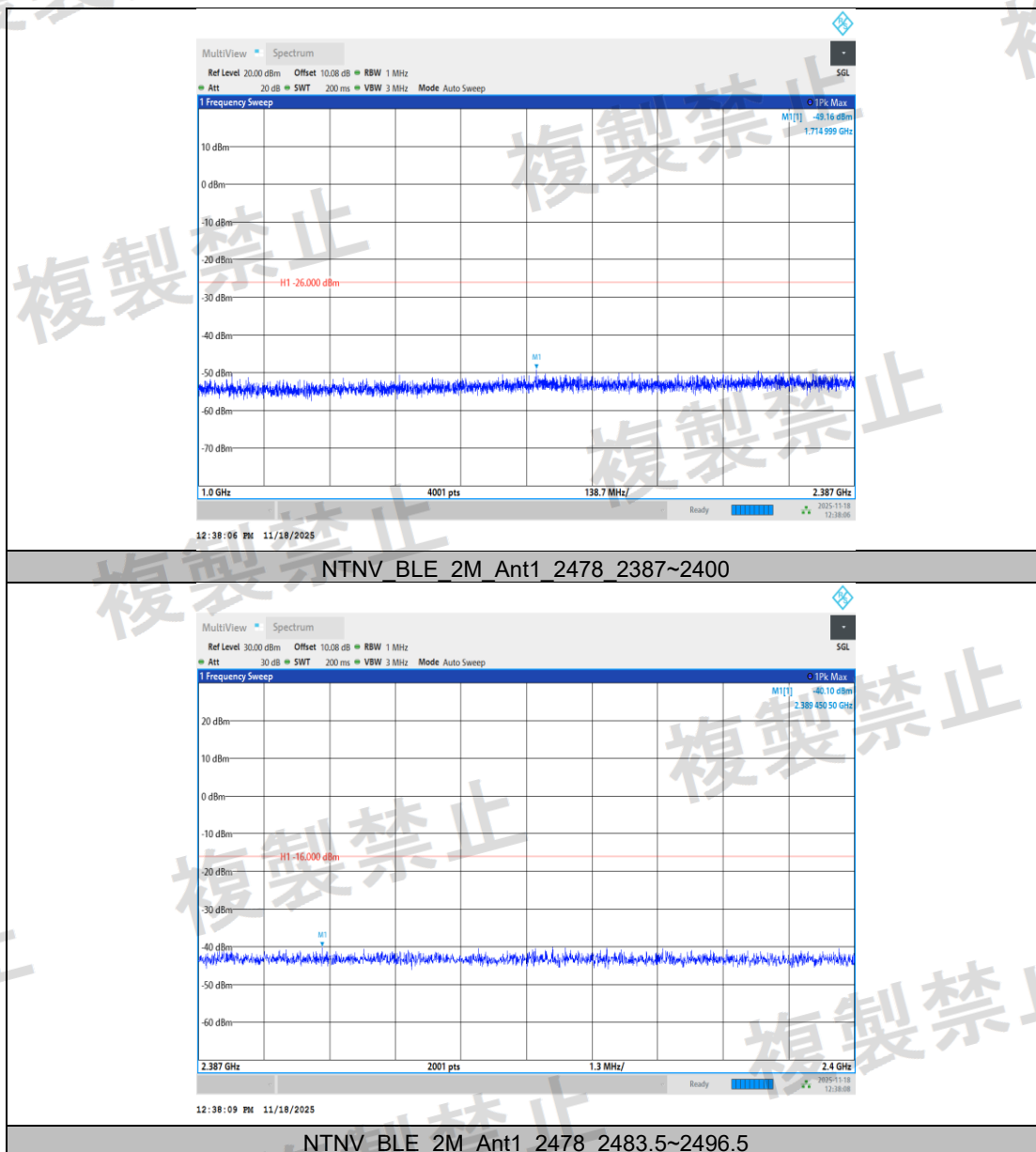
Test Report No.: PSU-QBJ2511130112RJ01





BUREAU
VERITAS

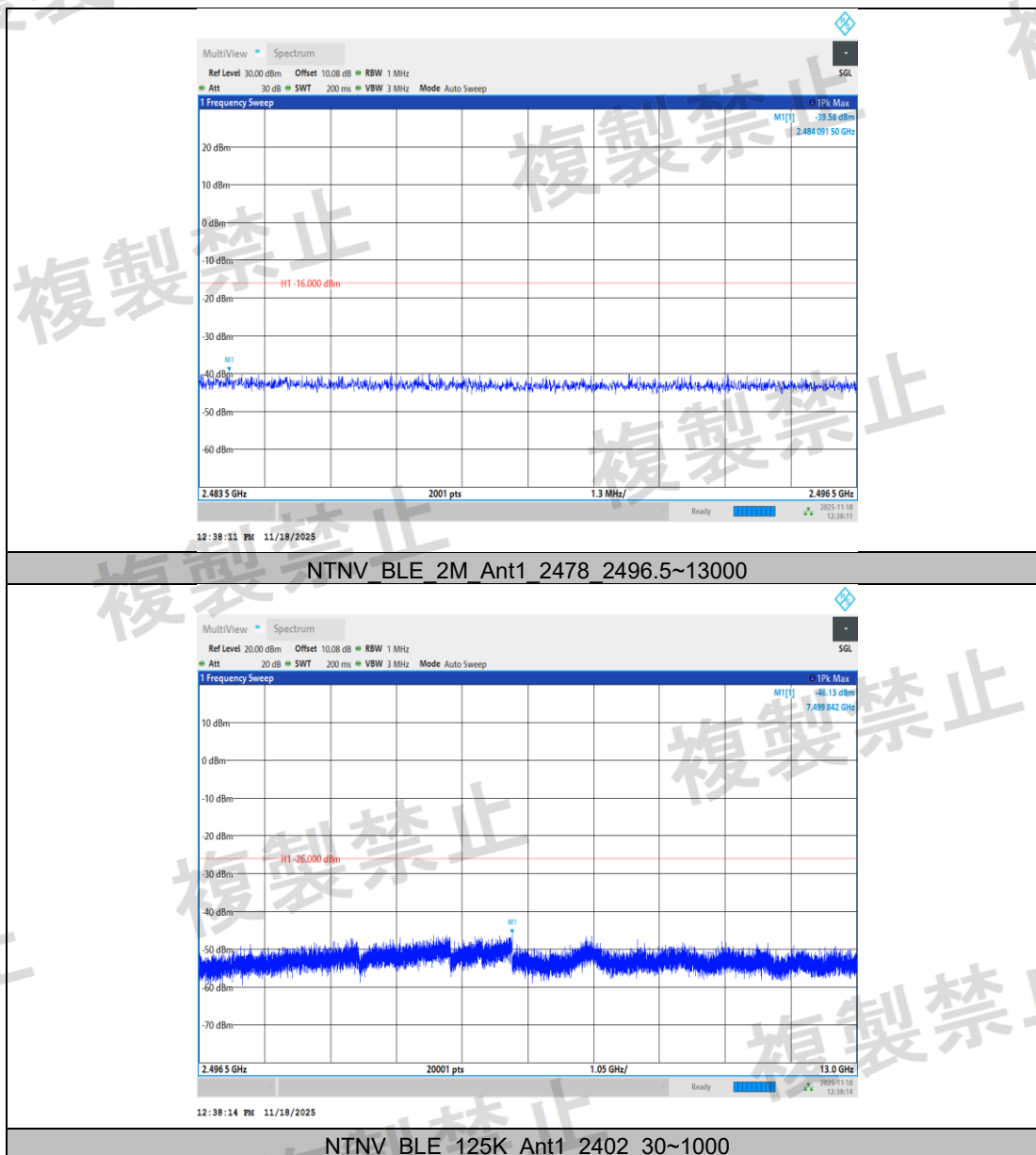
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BUREAU
VERITAS

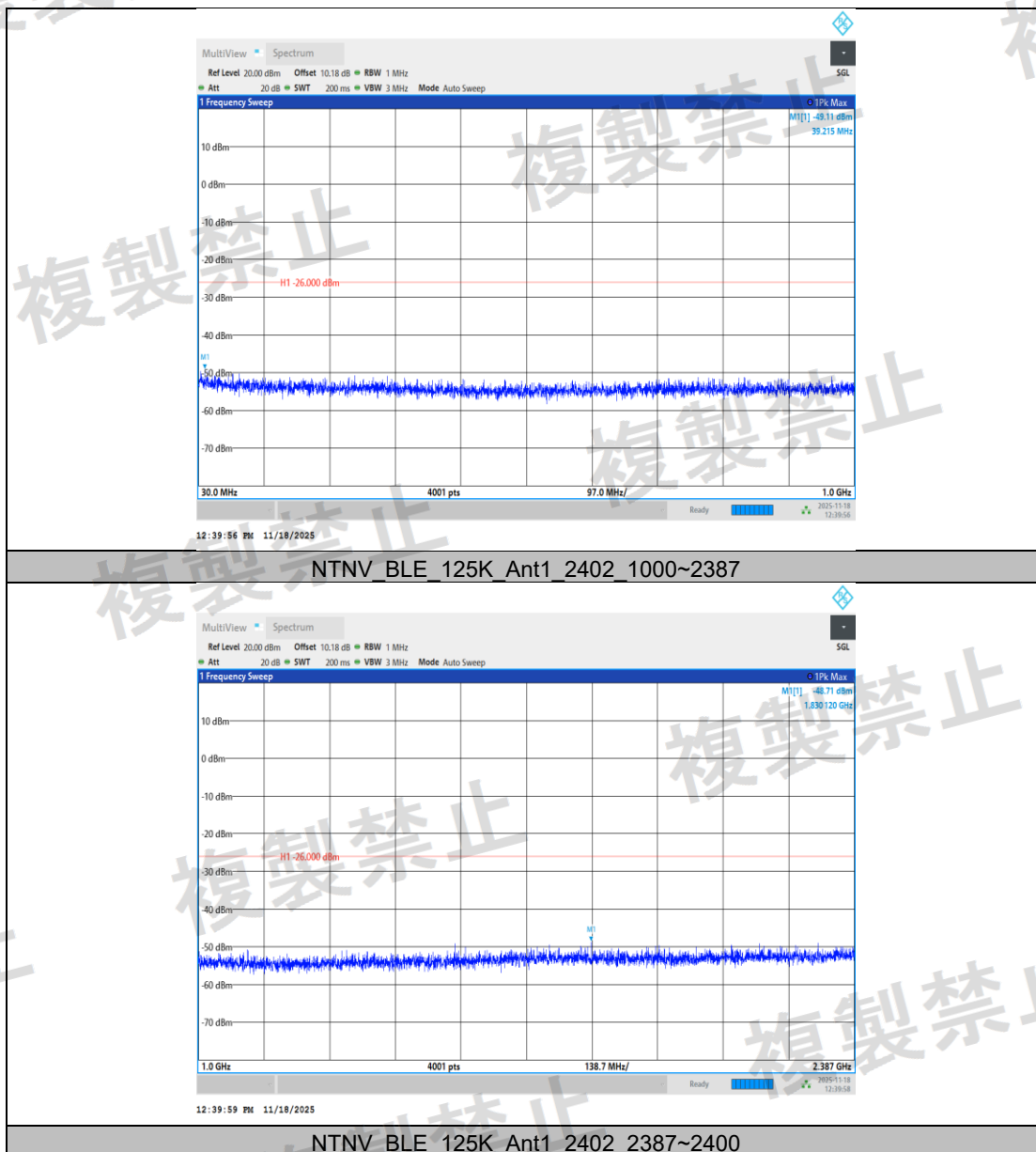
Test Report No.: PSU-QBJ2511130112RJ01





BUREAU
VERITAS

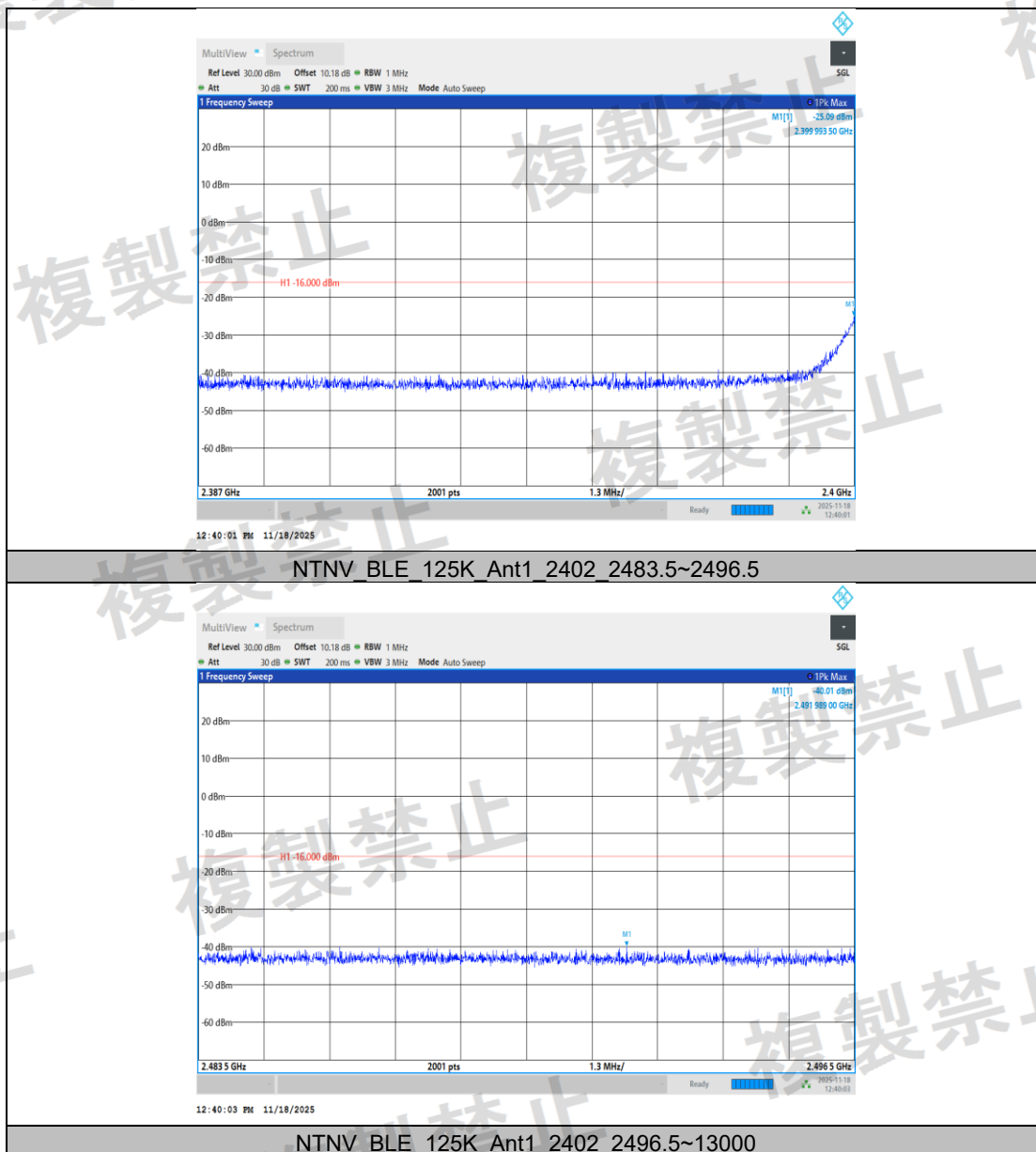
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VERITAS

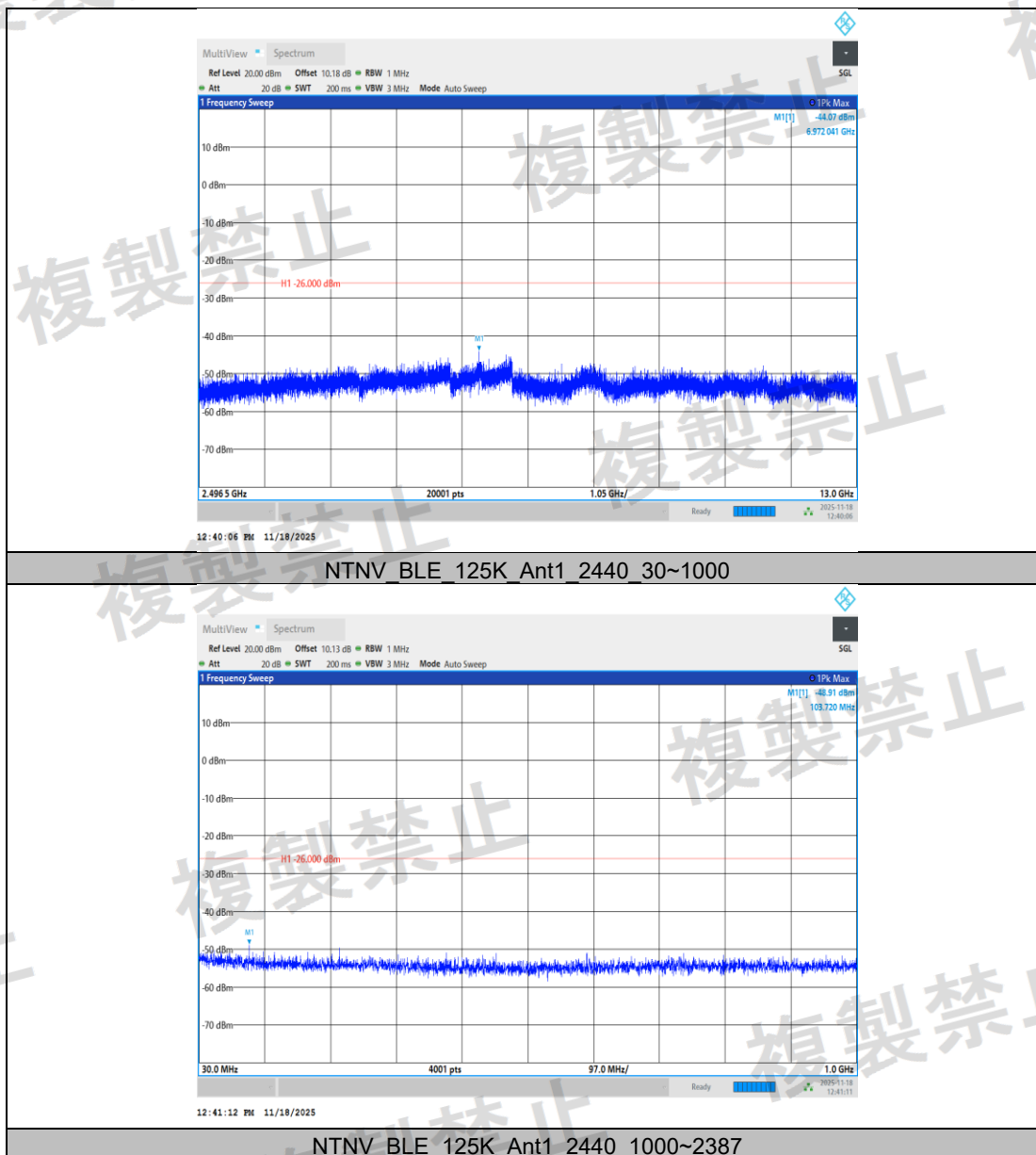
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VERITAS

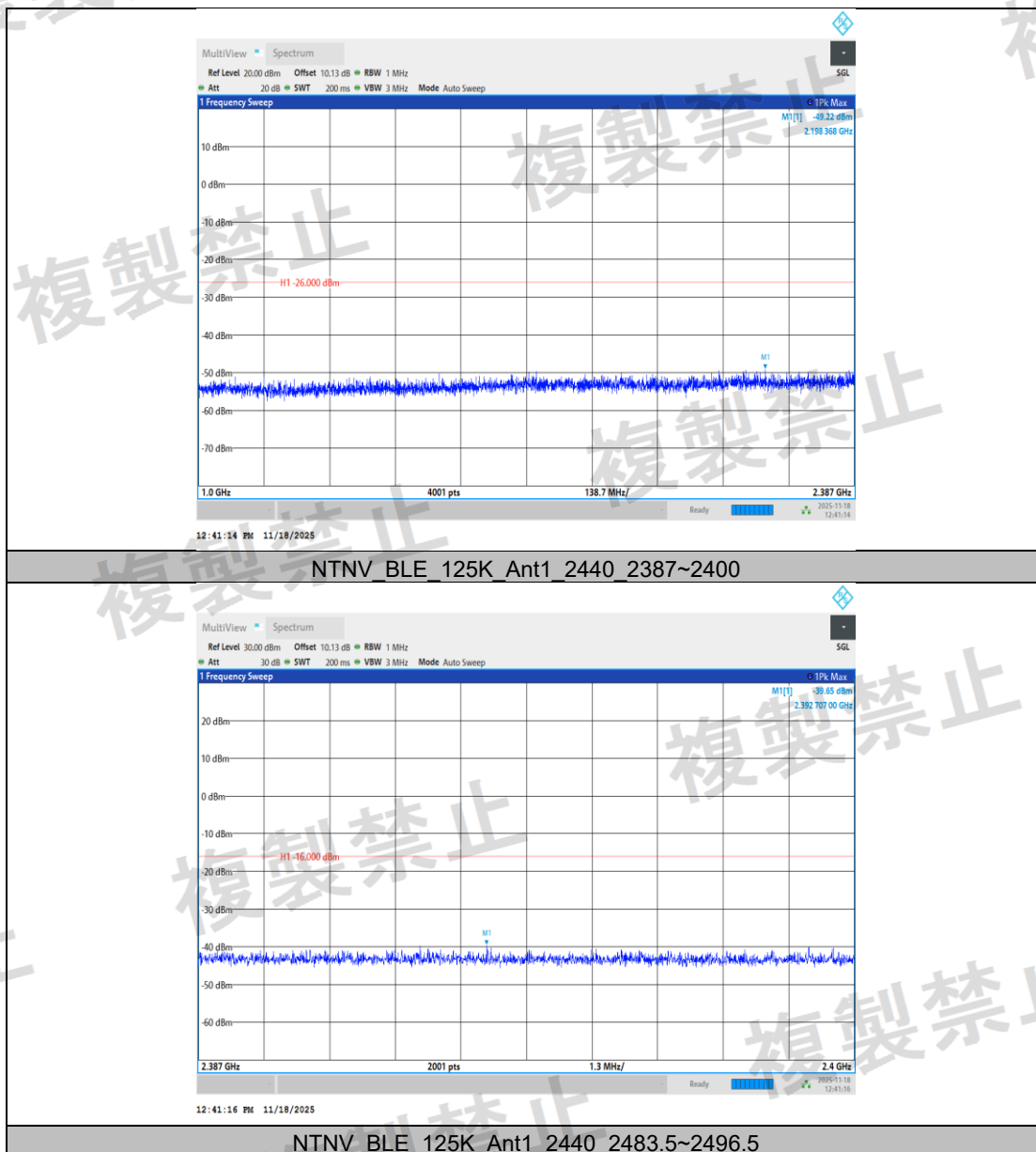
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VERITAS

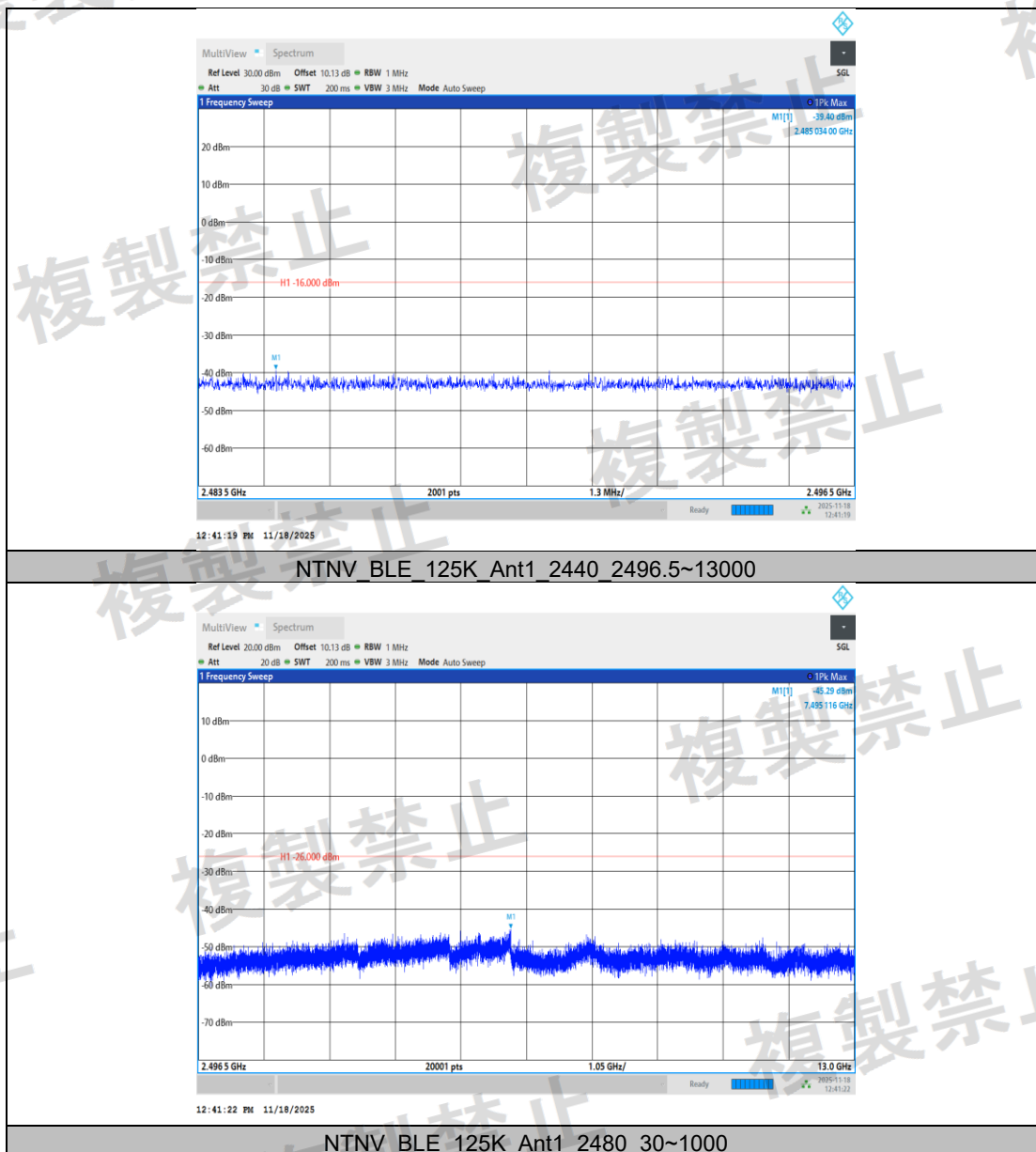
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VERITAS

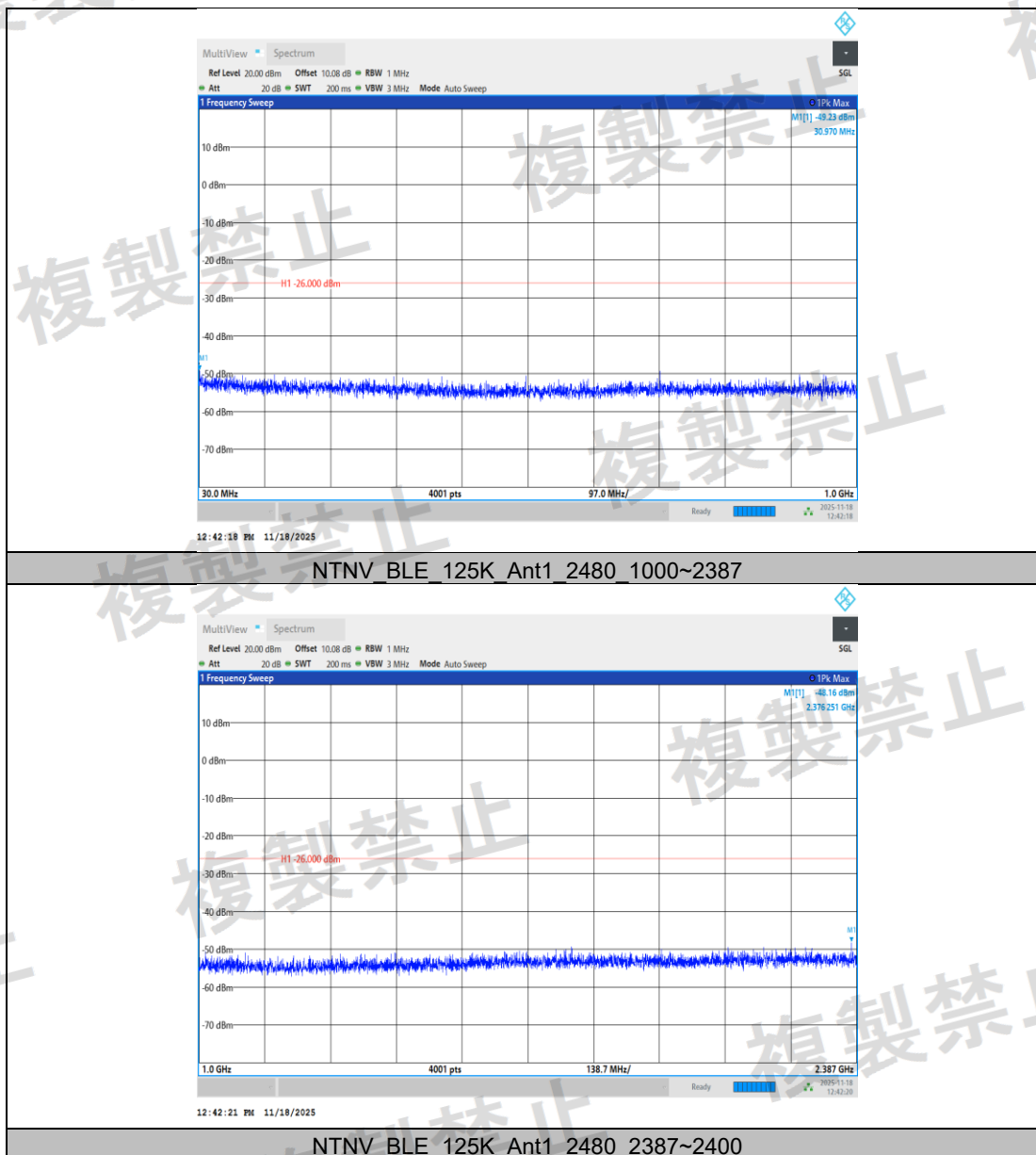
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VERITAS

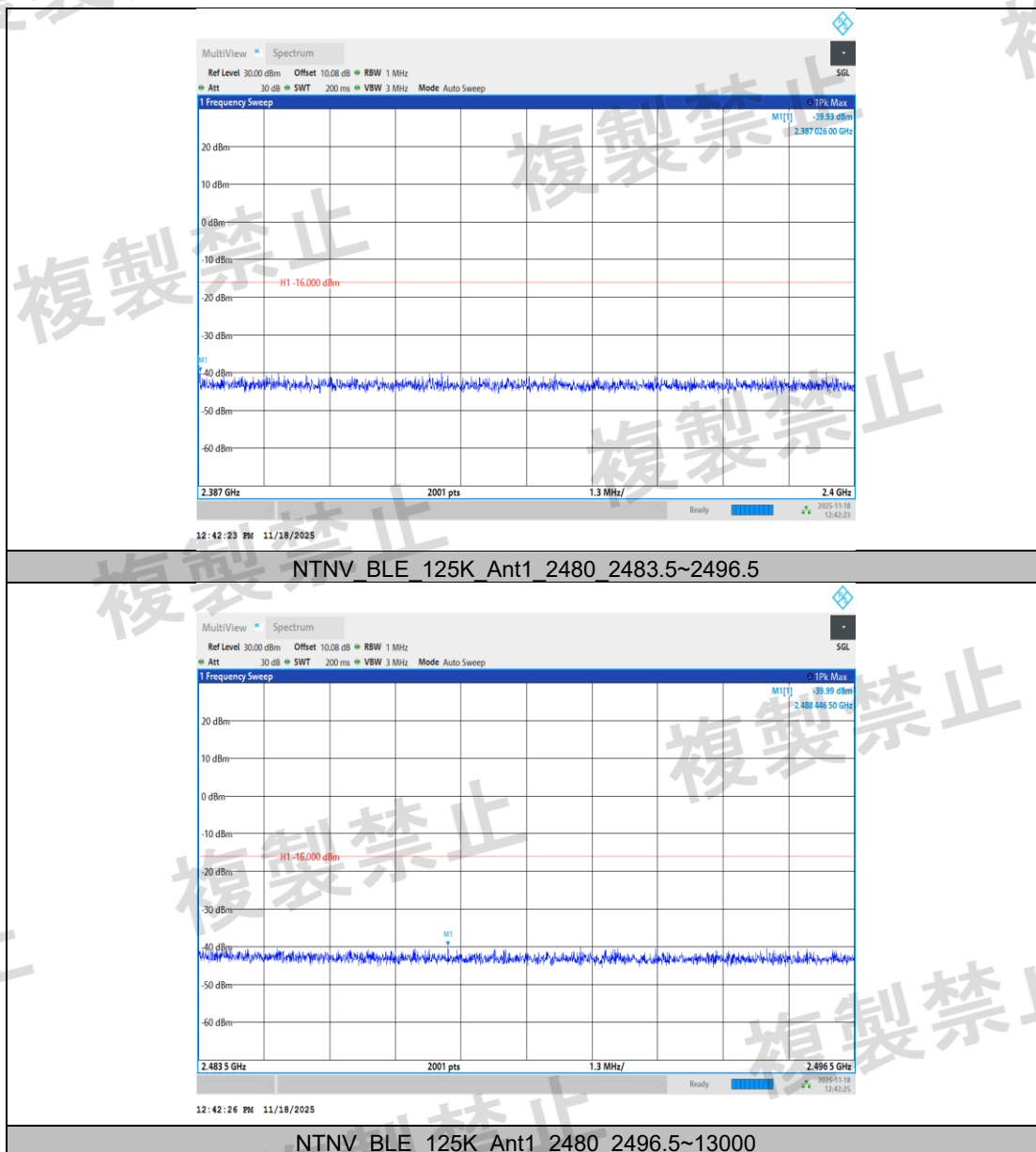
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VERITAS

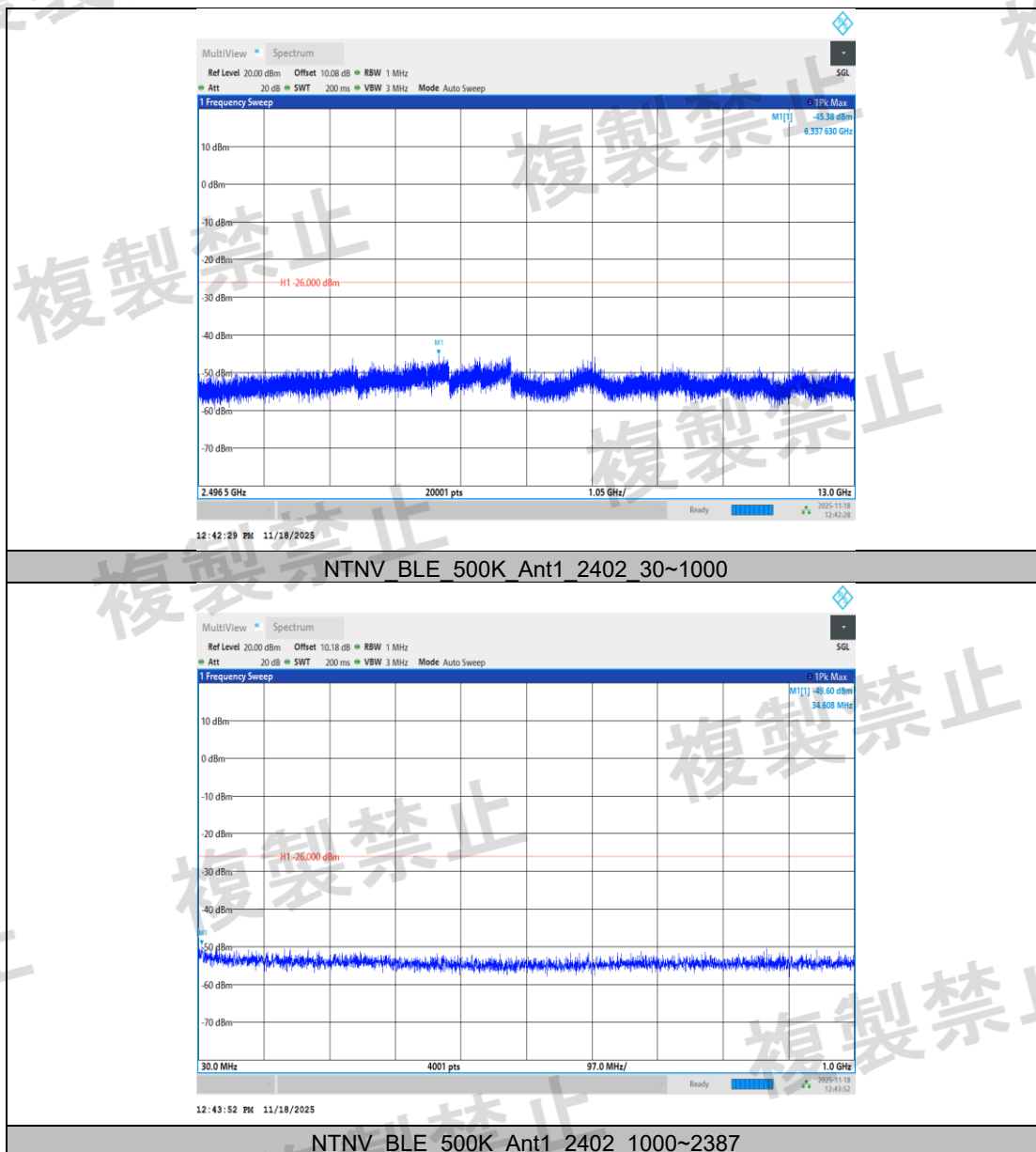
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VERITAS

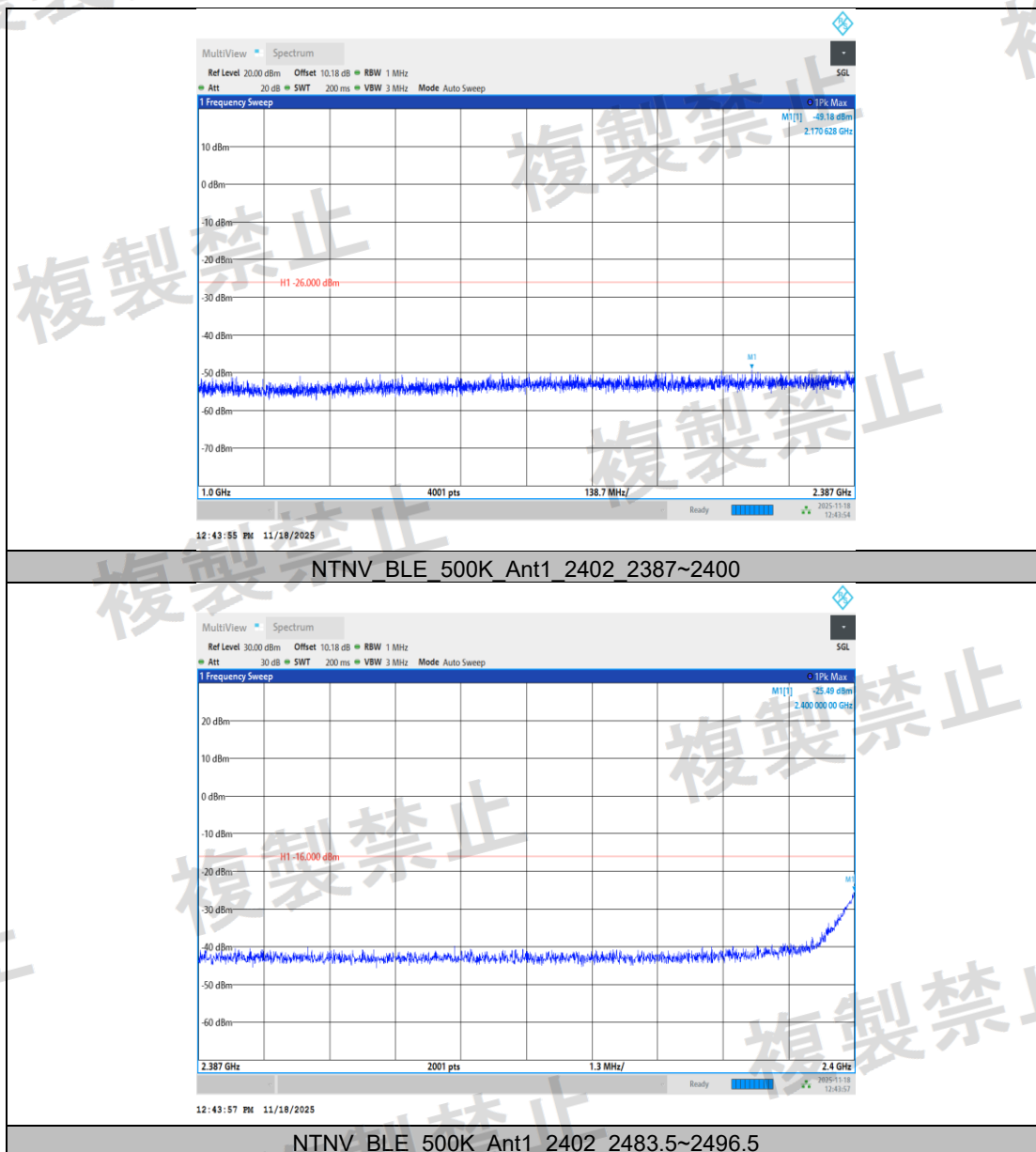
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VERITAS

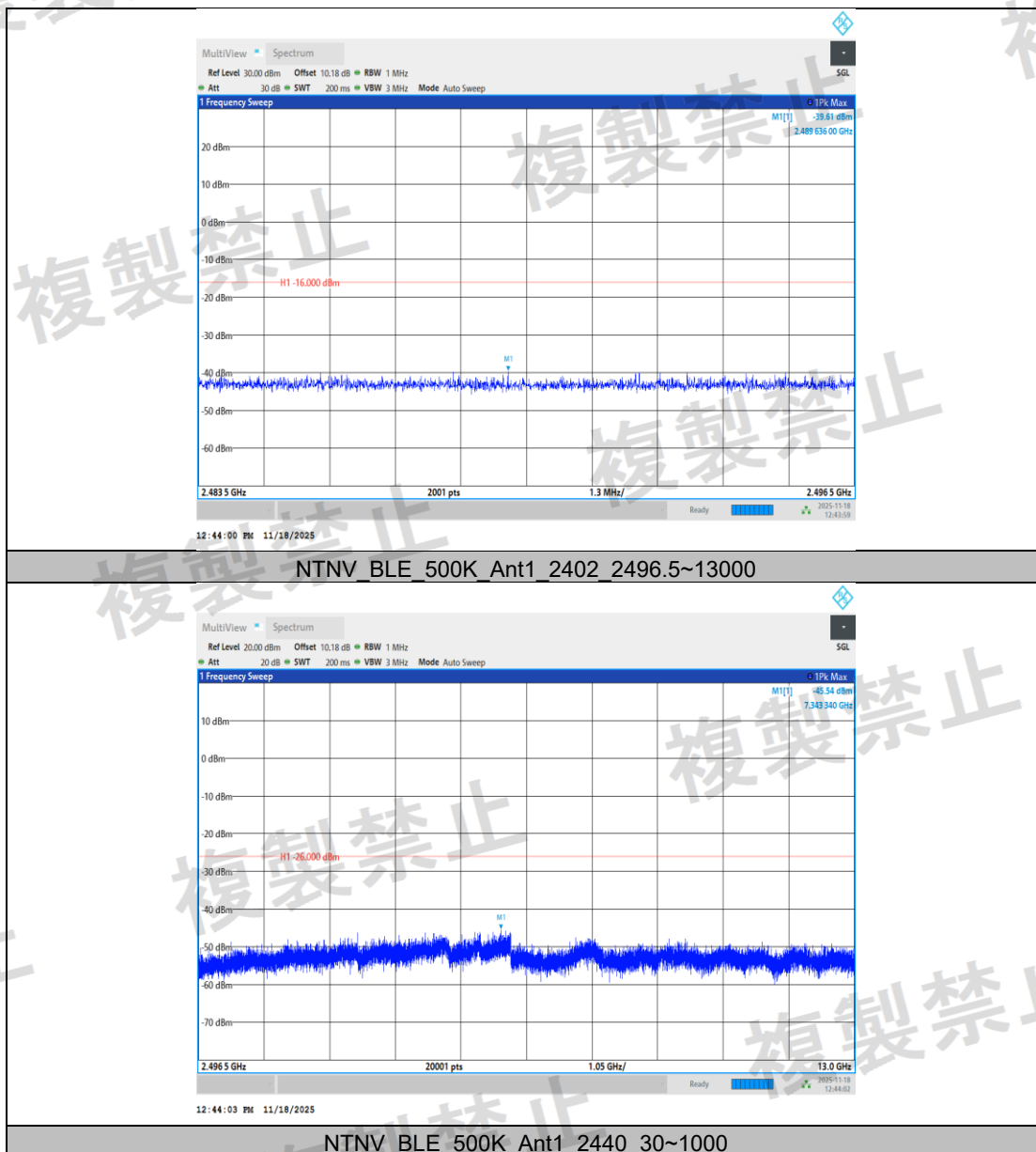
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VERITAS

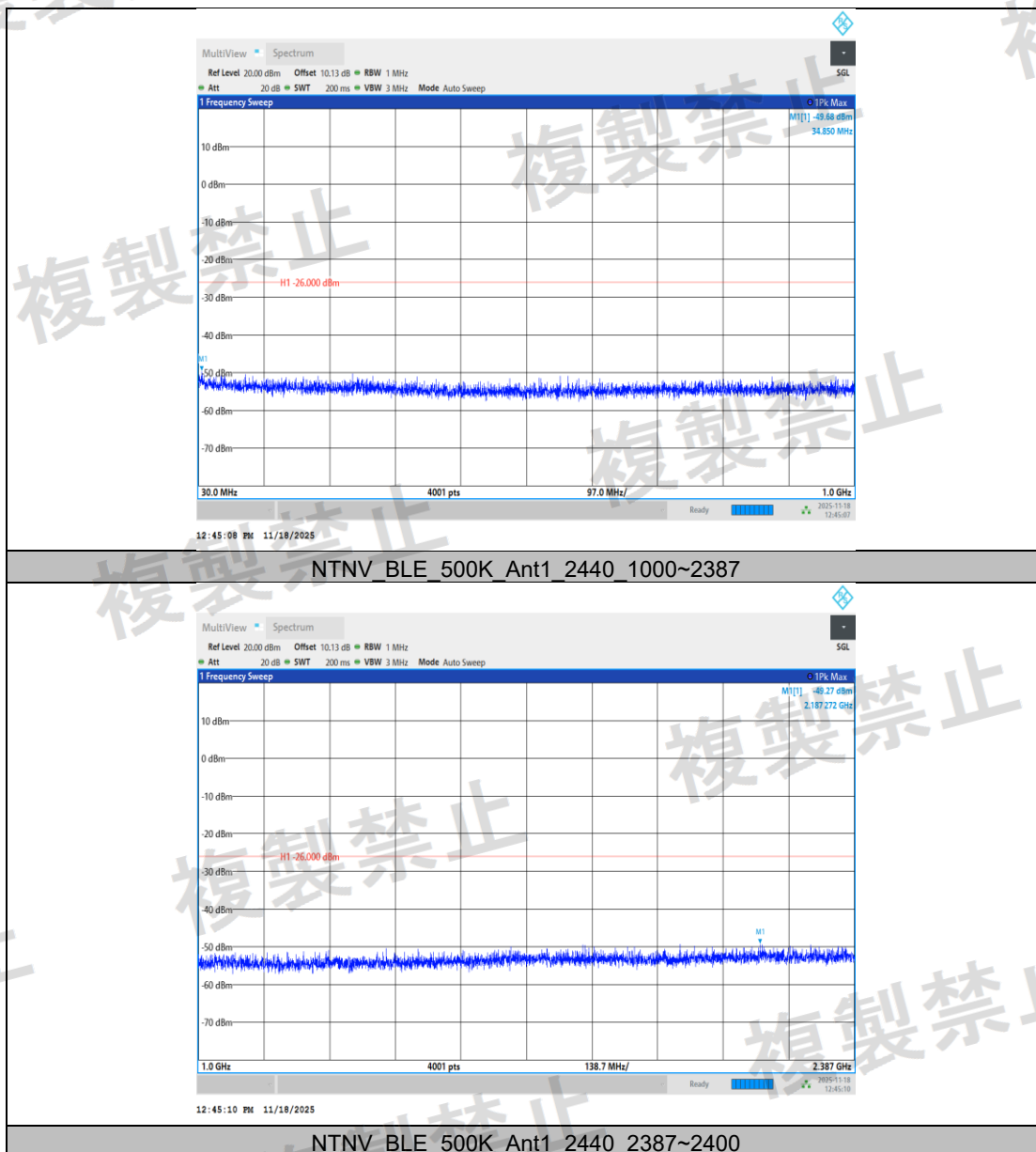
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BUREAU
VERITAS

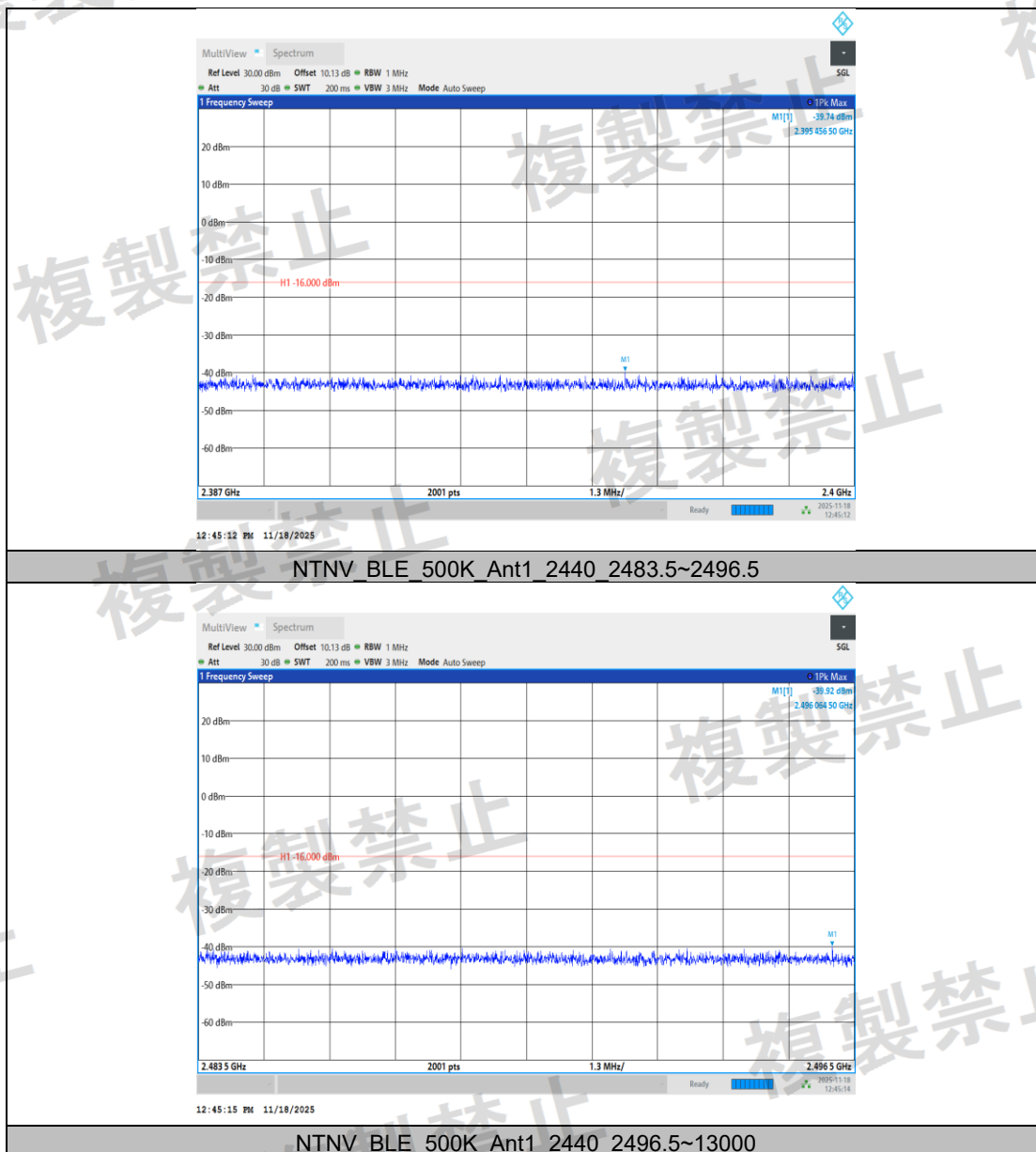
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VERITAS

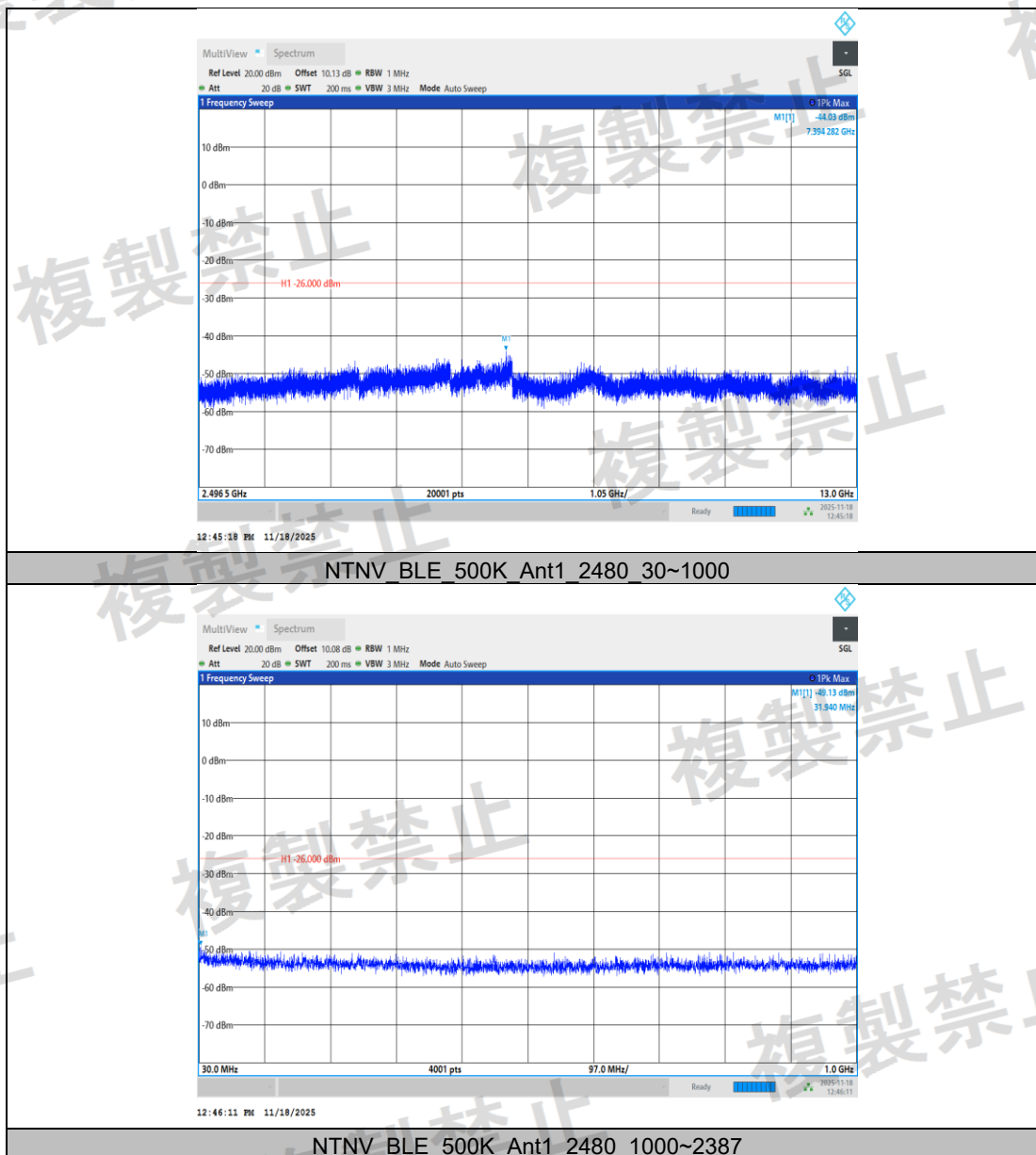
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VERITAS

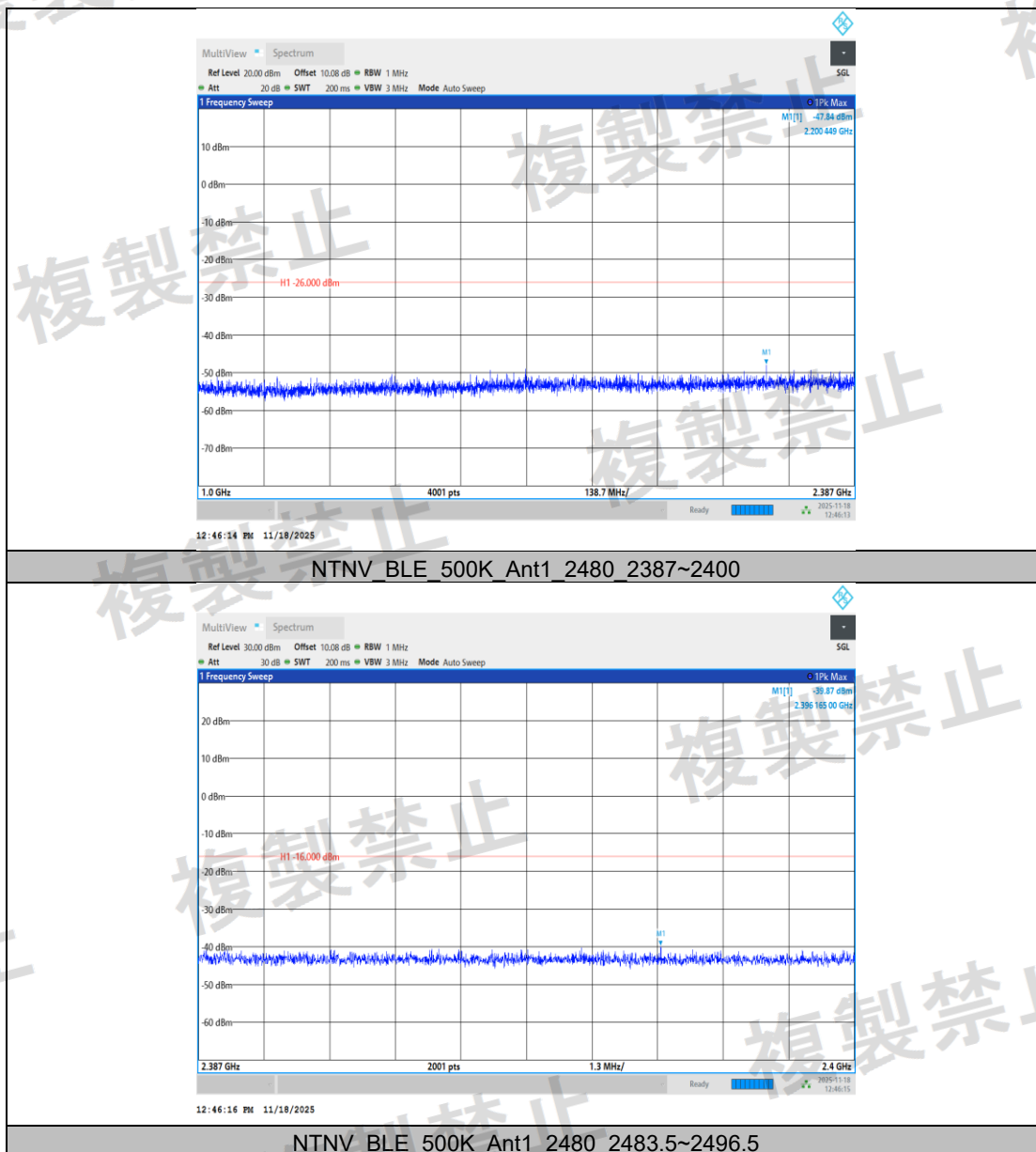
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VERITAS

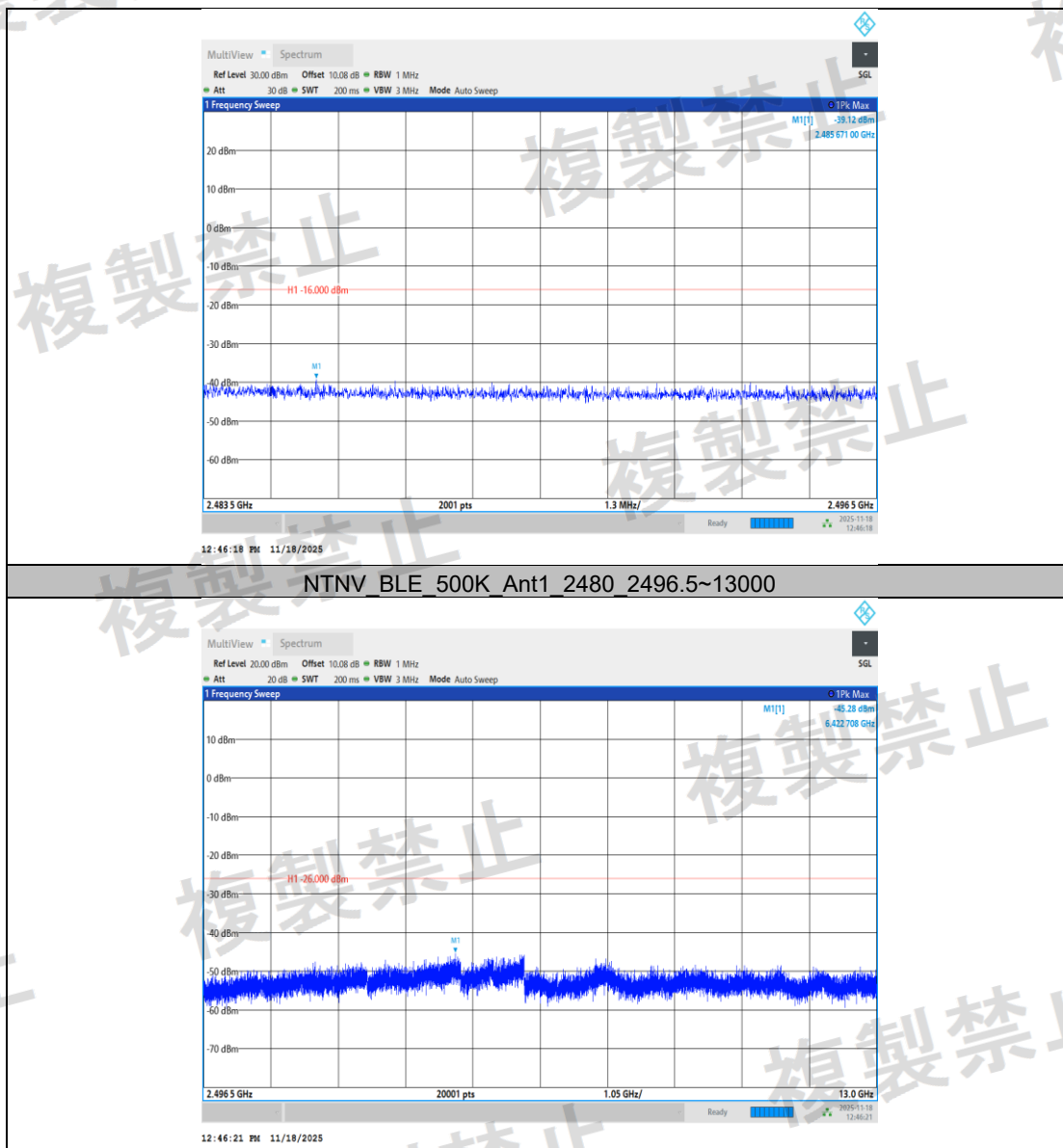
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01





Test Report No.: PSU-QBJ2511130112RJ01

Spurious Emission of RX

TEST RESULT

TestCondition	TestMode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	30.24	-75.91	≤-54	0.02564	≤4	PASS
				1000~12500	7466.41	-65.43	≤-47	0.28642	≤20	PASS
			2440	30~1000	30.24	-76.51	≤-54	0.02234	≤4	PASS
				1000~12500	2473.73	-53.05	≤-47	4.95450	≤20	See table below
			2480	30~1000	30.24	-79.46	≤-54	0.01132	≤4	PASS
				1000~12500	6399.27	-65.64	≤-47	0.27290	≤20	PASS
	BLE_2M	Ant1	2404	30~1000	30.24	-77.66	≤-54	0.01714	≤4	PASS
				1000~12500	7419.84	-65.43	≤-47	0.28642	≤20	PASS
			2440	30~1000	32.18	-79.75	≤-54	0.01059	≤4	PASS
				1000~12500	6327.97	-66.11	≤-47	0.24491	≤20	PASS
			2478	30~1000	30.24	-78.95	≤-54	0.01274	≤4	PASS
				1000~12500	7489.99	-65.60	≤-47	0.27542	≤20	PASS
	BLE_125 K	Ant1	2402	30~1000	31.70	-77.15	≤-54	0.01928	≤4	PASS
				1000~12500	2473.15	-51.16	≤-47	7.65597	≤20	See table below
			2440	30~1000	30.24	-78.05	≤-54	0.01567	≤4	PASS
				1000~12500	7008.16	-64.90	≤-47	0.32359	≤20	PASS
			2480	30~1000	32.18	-77.67	≤-54	0.01710	≤4	PASS
				1000~12500	2473.15	-51.30	≤-47	7.41310	≤20	See table below
	BLE_500 K	Ant1	2402	30~1000	30.24	-77.31	≤-54	0.01858	≤4	PASS
				1000~12500	7432.49	-65.86	≤-47	0.25942	≤20	PASS
			2440	30~1000	30.24	-79.52	≤-54	0.01117	≤4	PASS
				1000~12500	2470.28	-54.34	≤-47	3.68129	≤20	See table below
			2480	30~1000	30.24	-76.13	≤-54	0.0243	≤4	PASS

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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

								8		
				1000~12500	7456.6 4	-65.38	≤-47	0.2897 3	≤20	PASS

TEST RESULT_STEP2

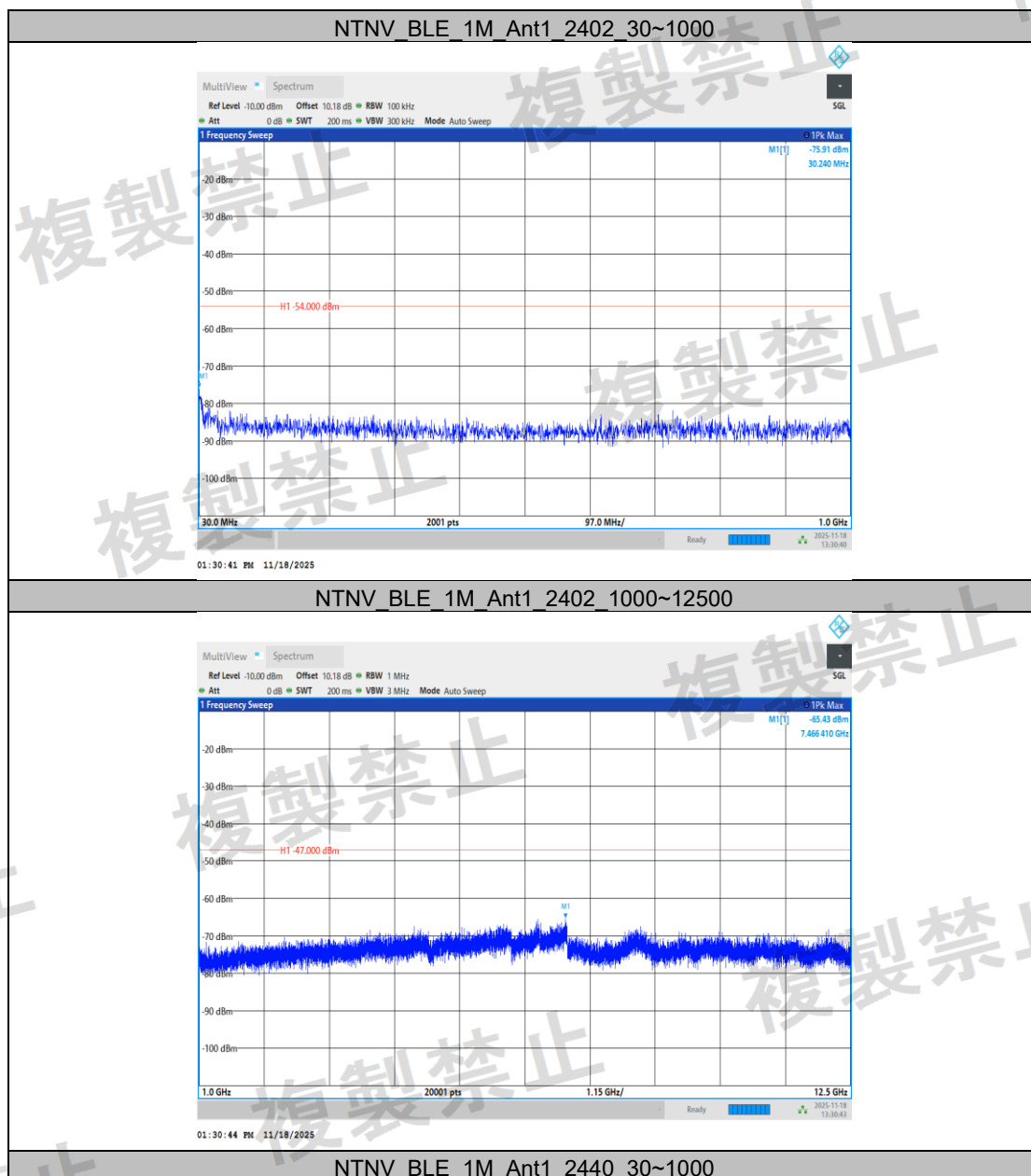
TestCondition	TestMode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2440	2473.73	-56.46	≤-47	2.2594 4	≤20	PASS
	BLE_125 K	Ant1	2402	2473.15	-54.54	≤-47	3.5156 0	≤20	PASS
			2480	2473.15	-59.04	≤-47	1.2473 8	≤20	PASS
	BLE_500 K	Ant1	2440	2470.28	-58.93	≤-47	1.2793 8	≤20	PASS



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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

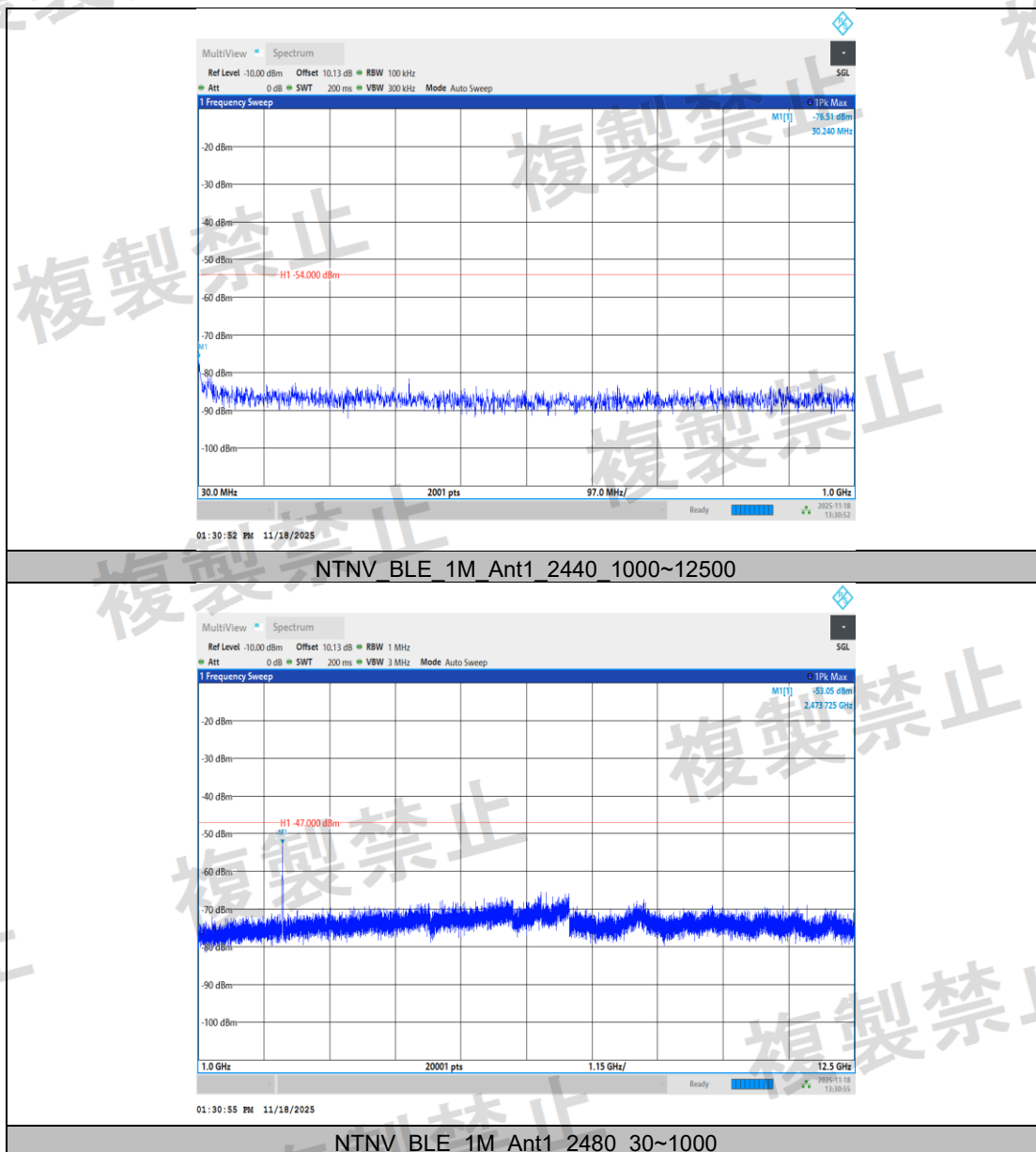
TEST GRAPHS





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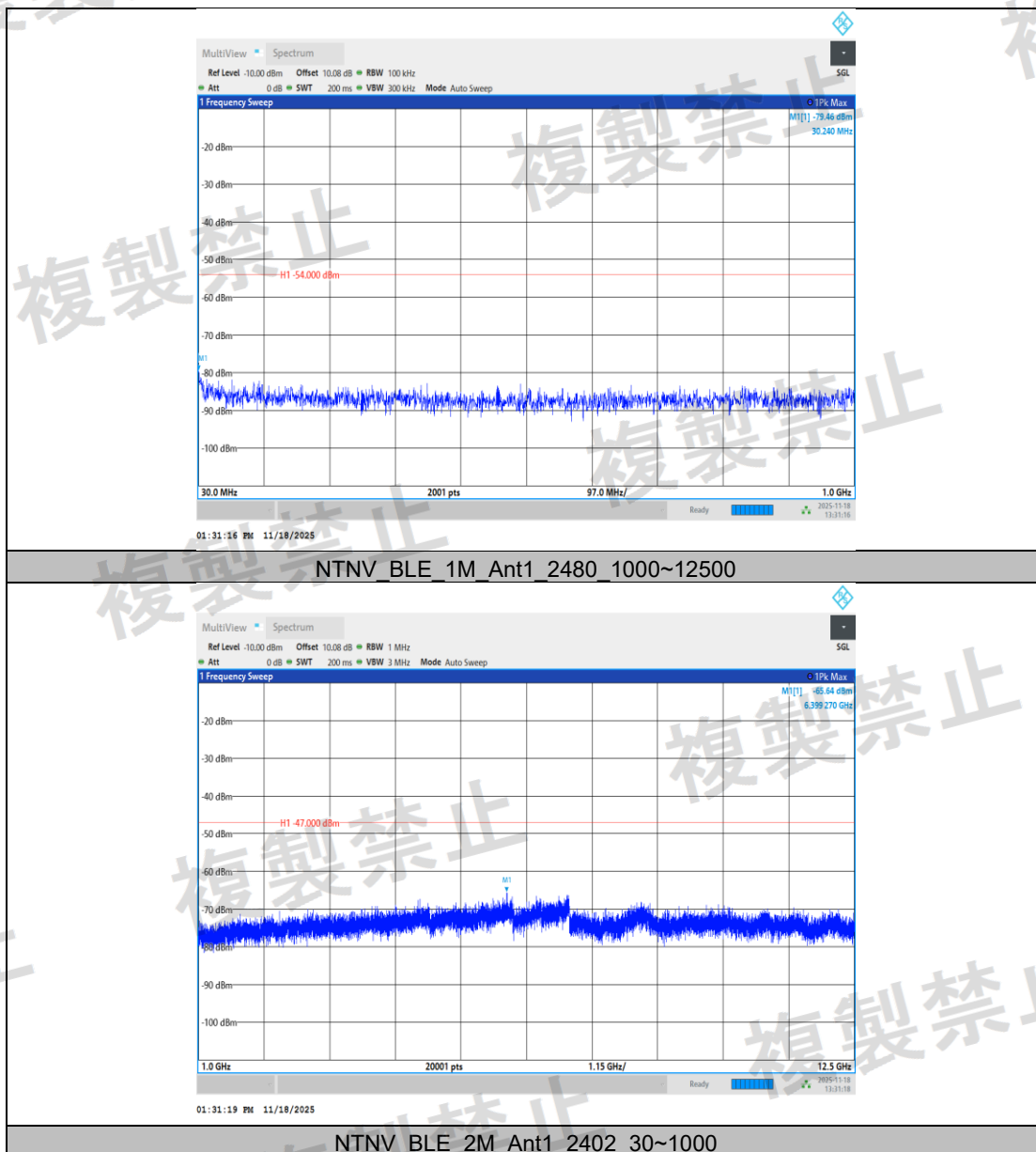
Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

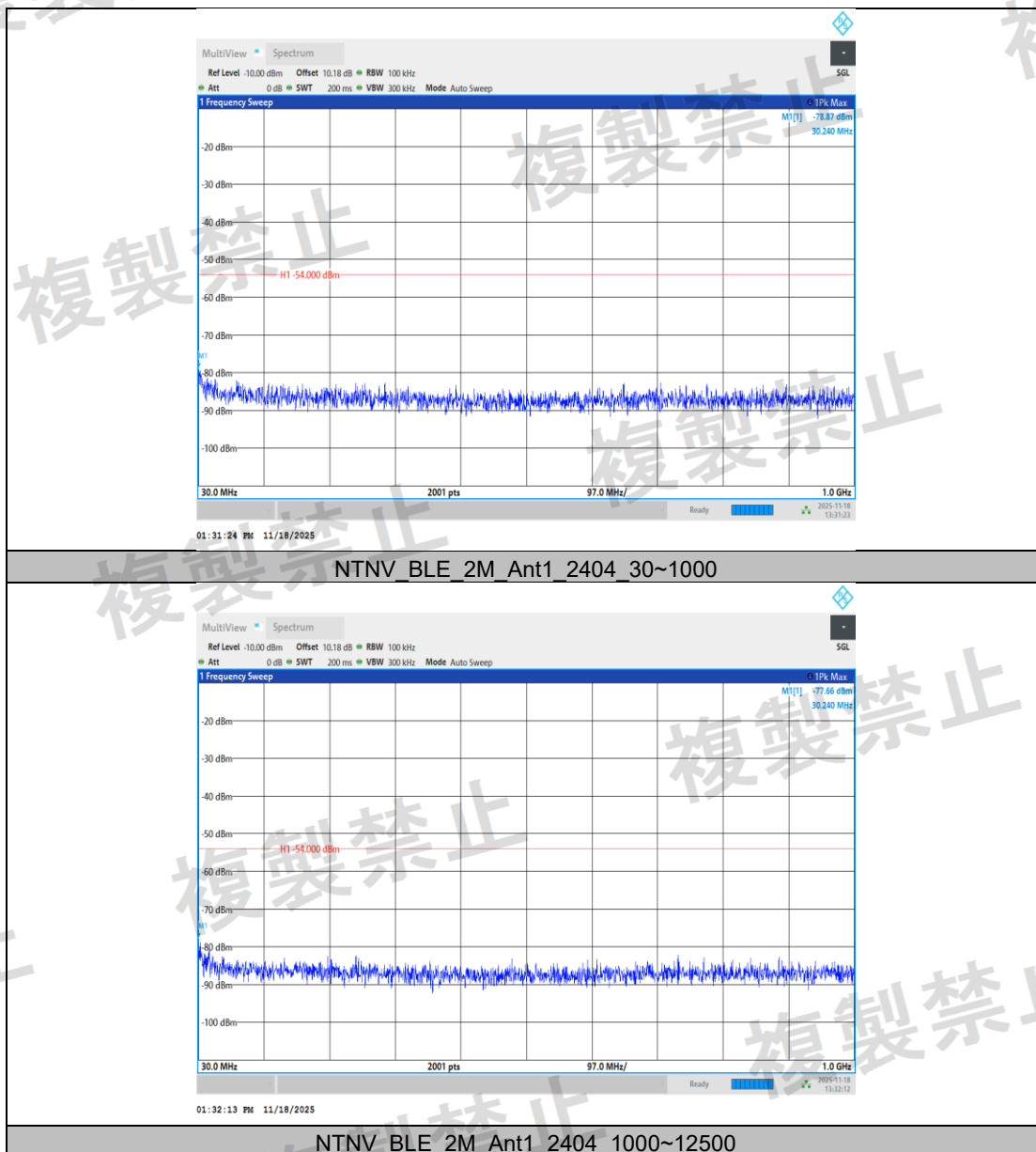
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VERITAS

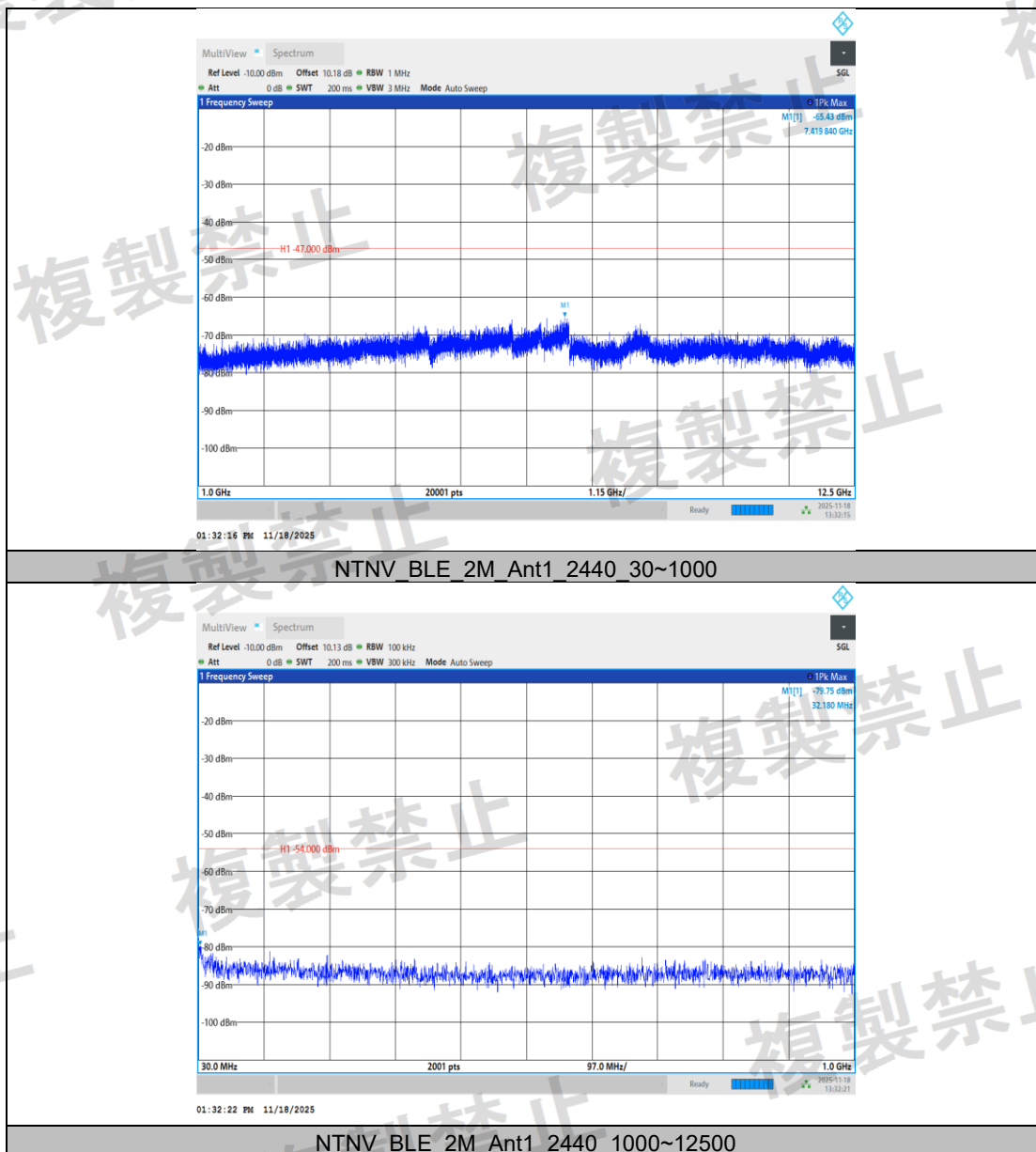
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VERITAS

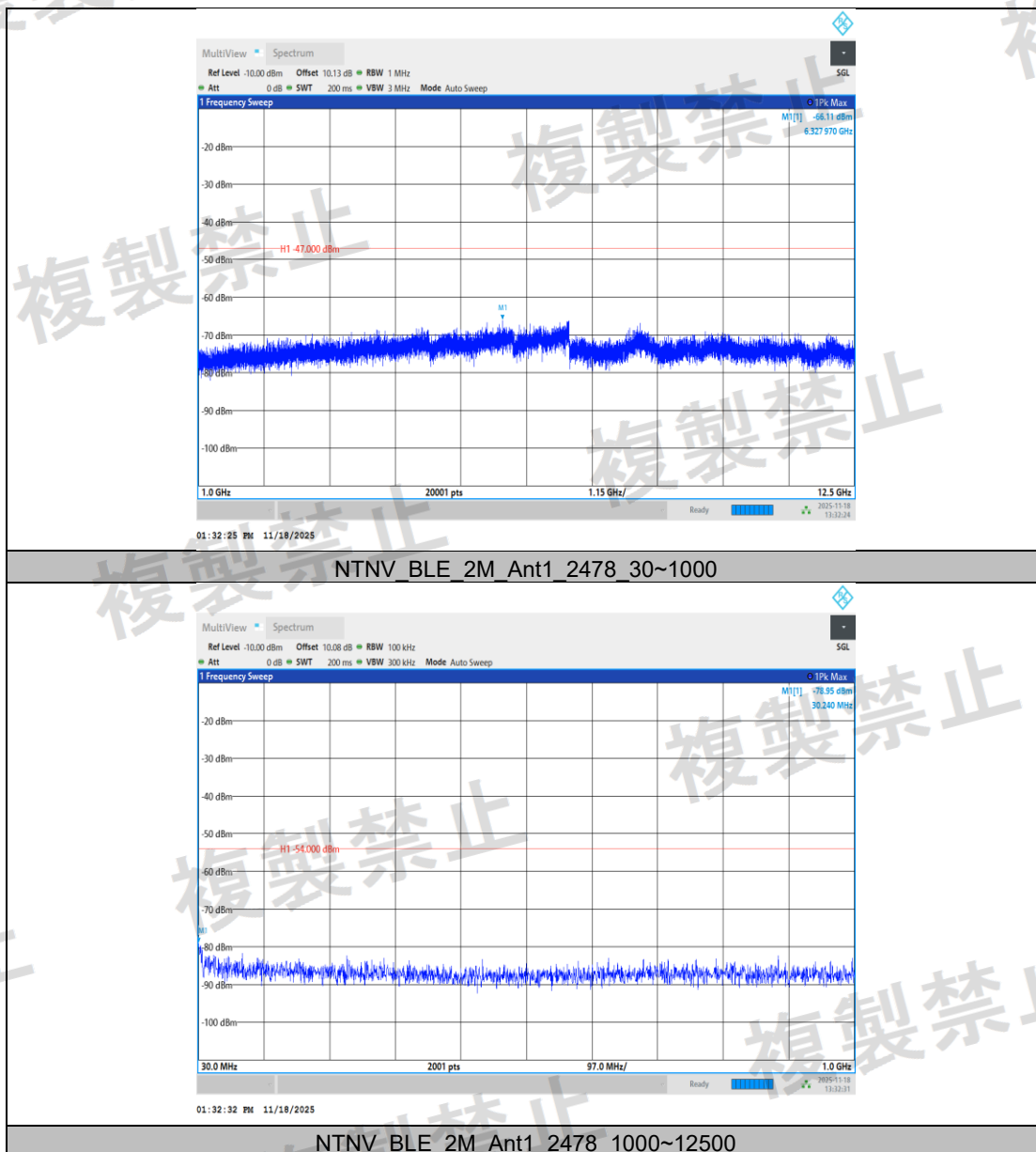
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VERITAS

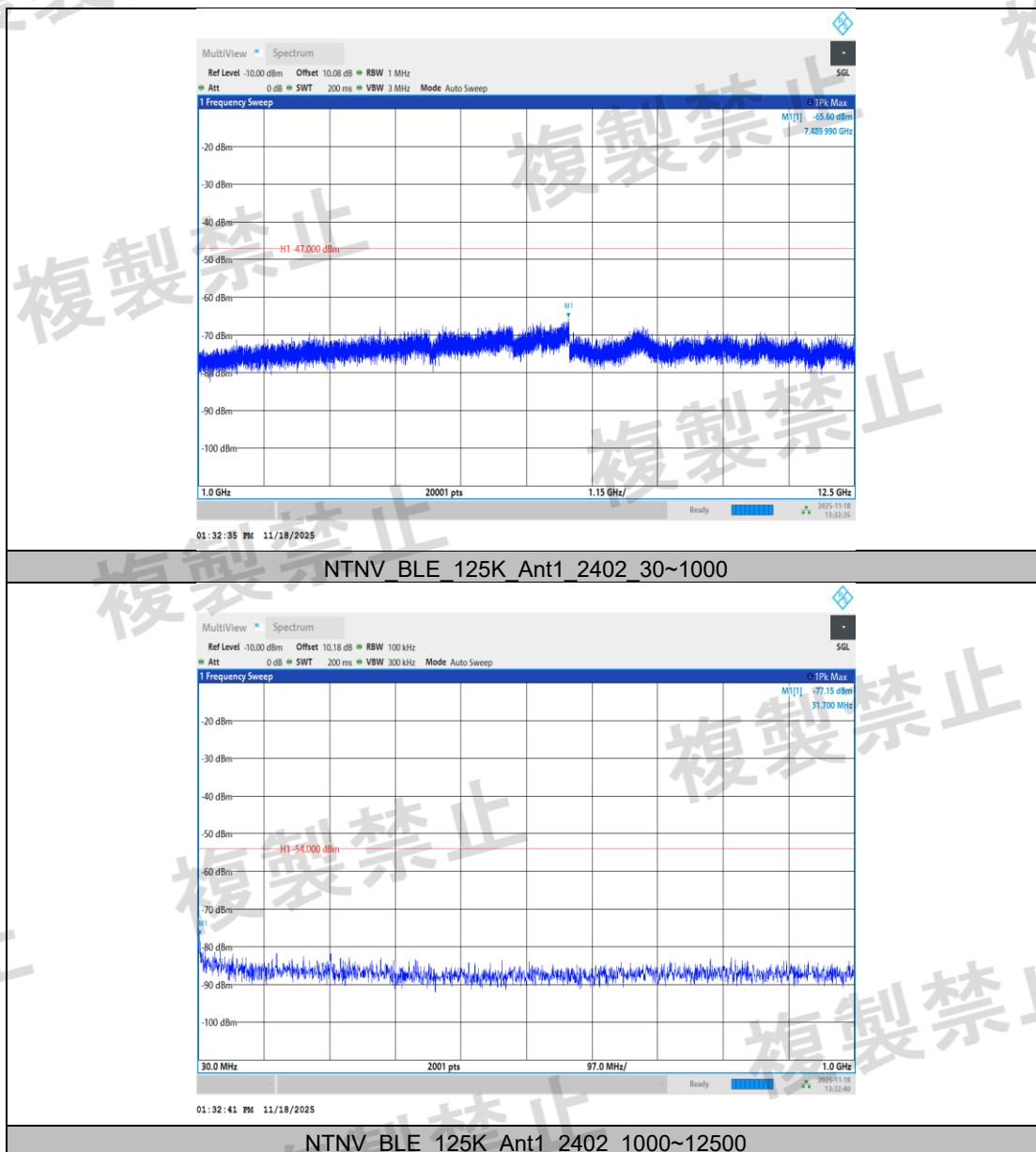
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VERITAS

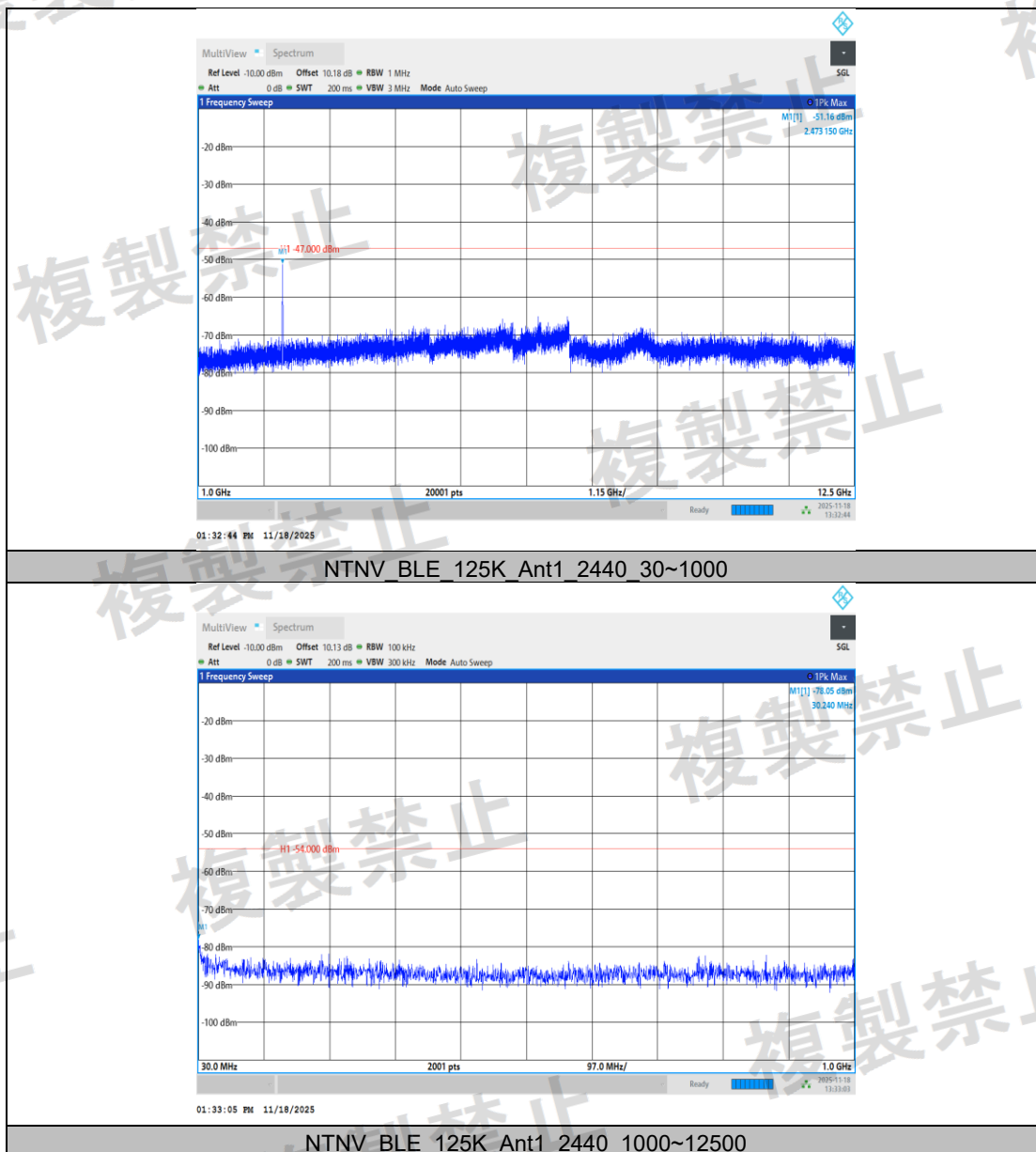
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BUREAU
VERITAS

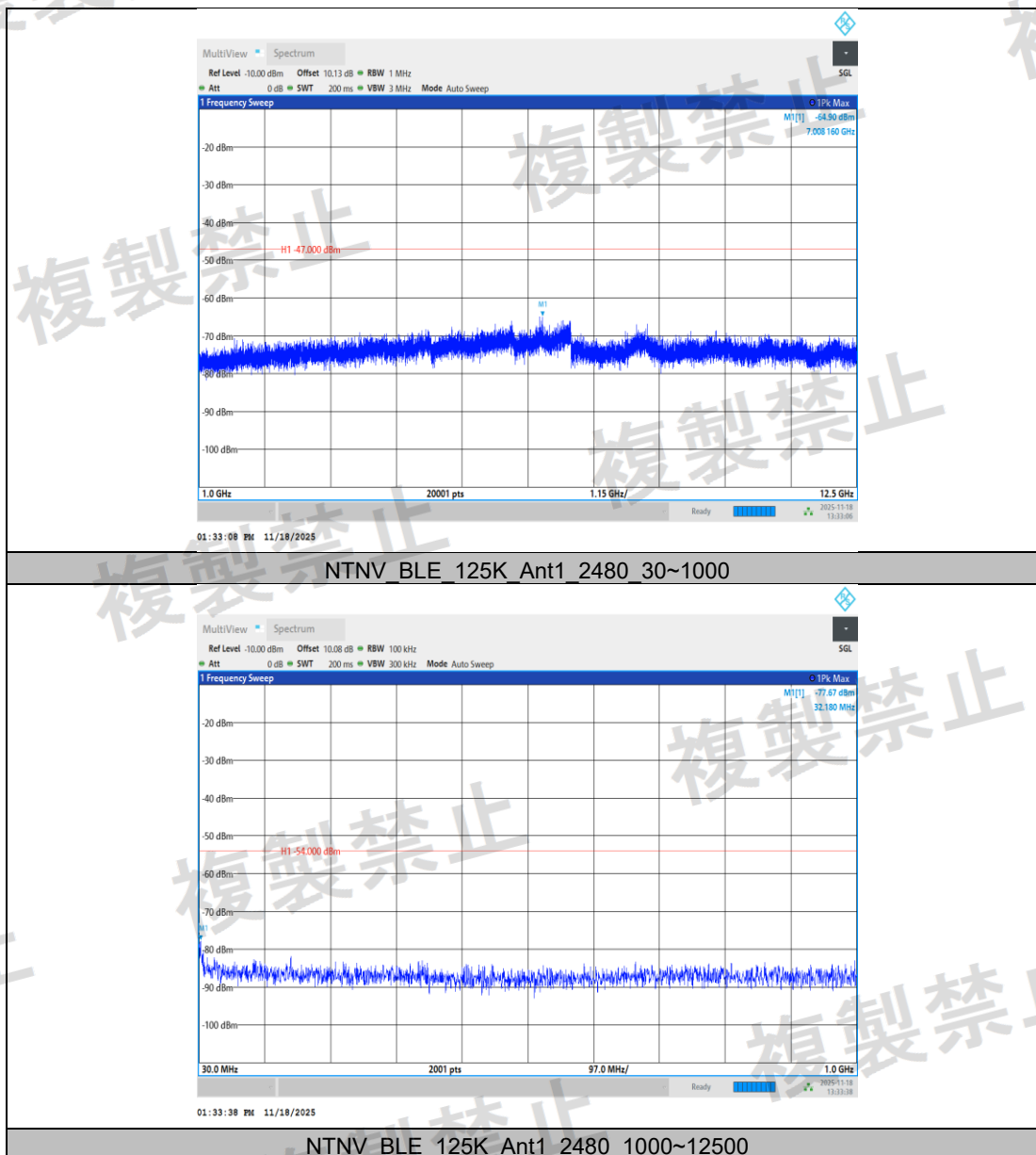
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VERITAS

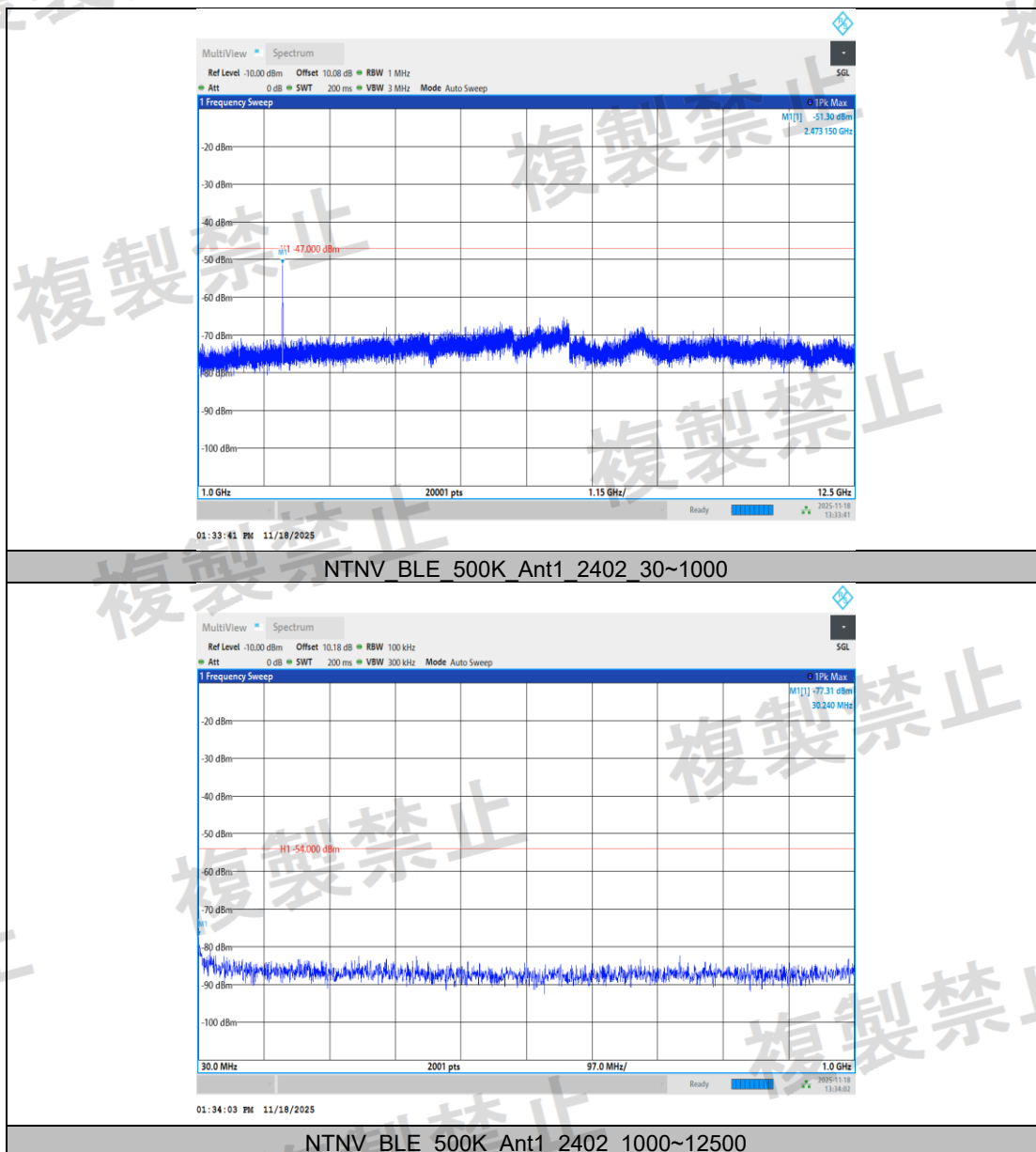
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BUREAU
VERITAS

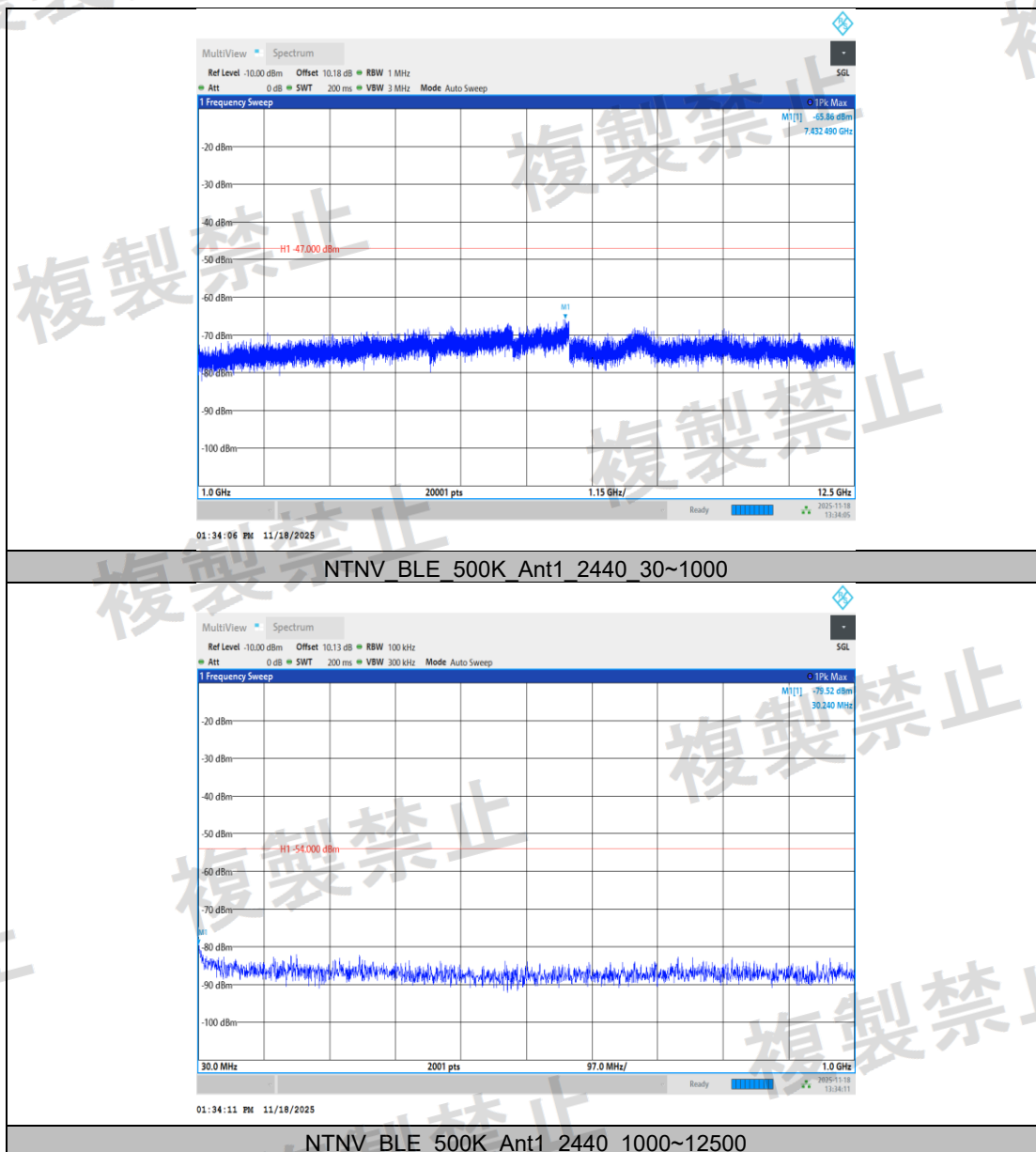
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BUREAU
VERITAS

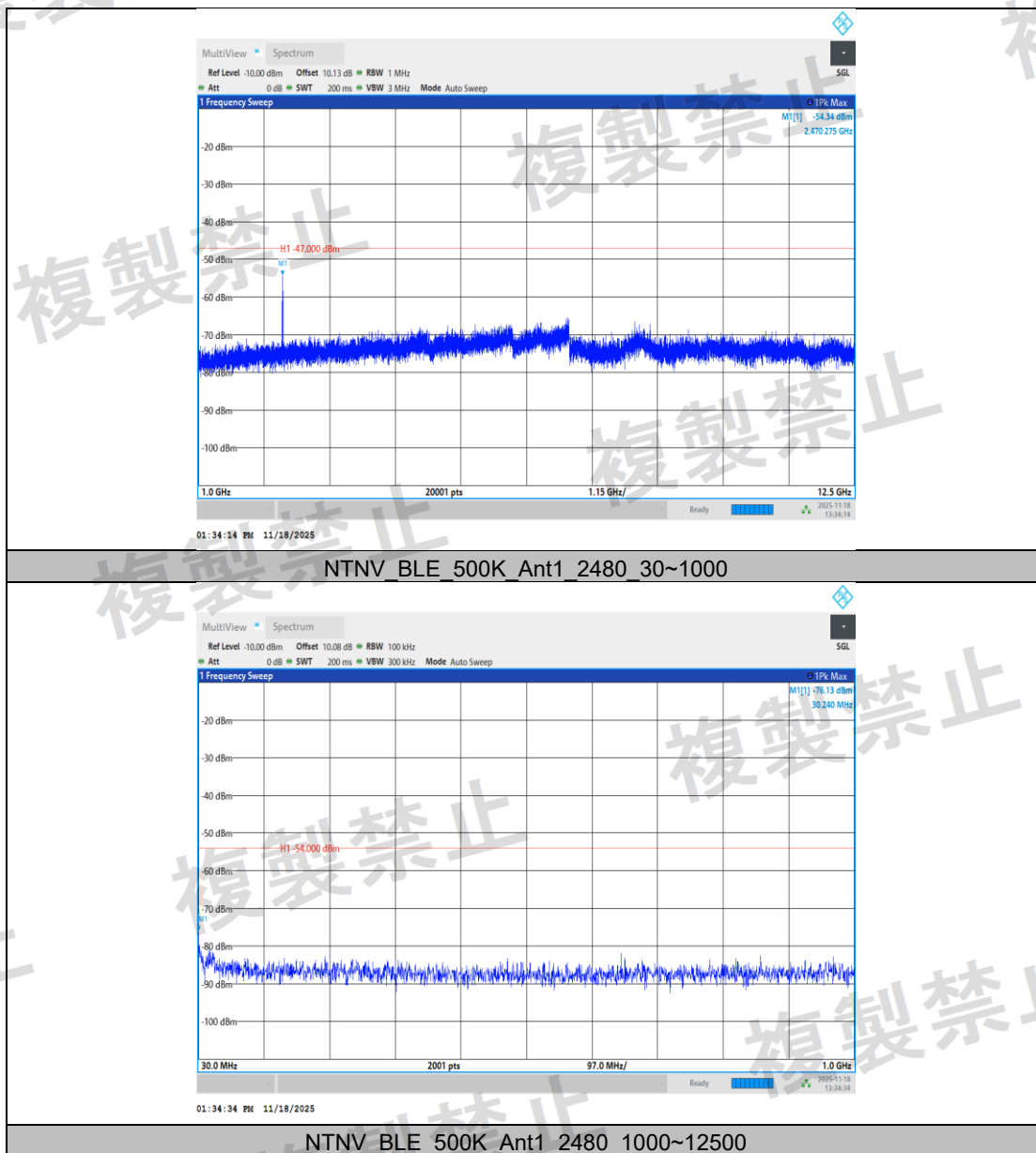
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VERITAS

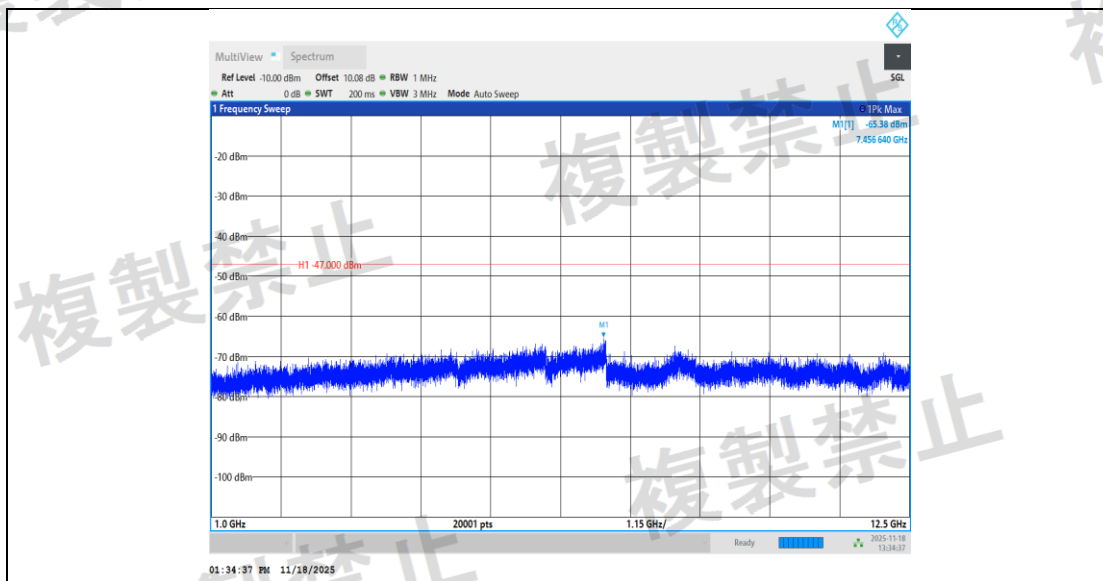
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VERITAS

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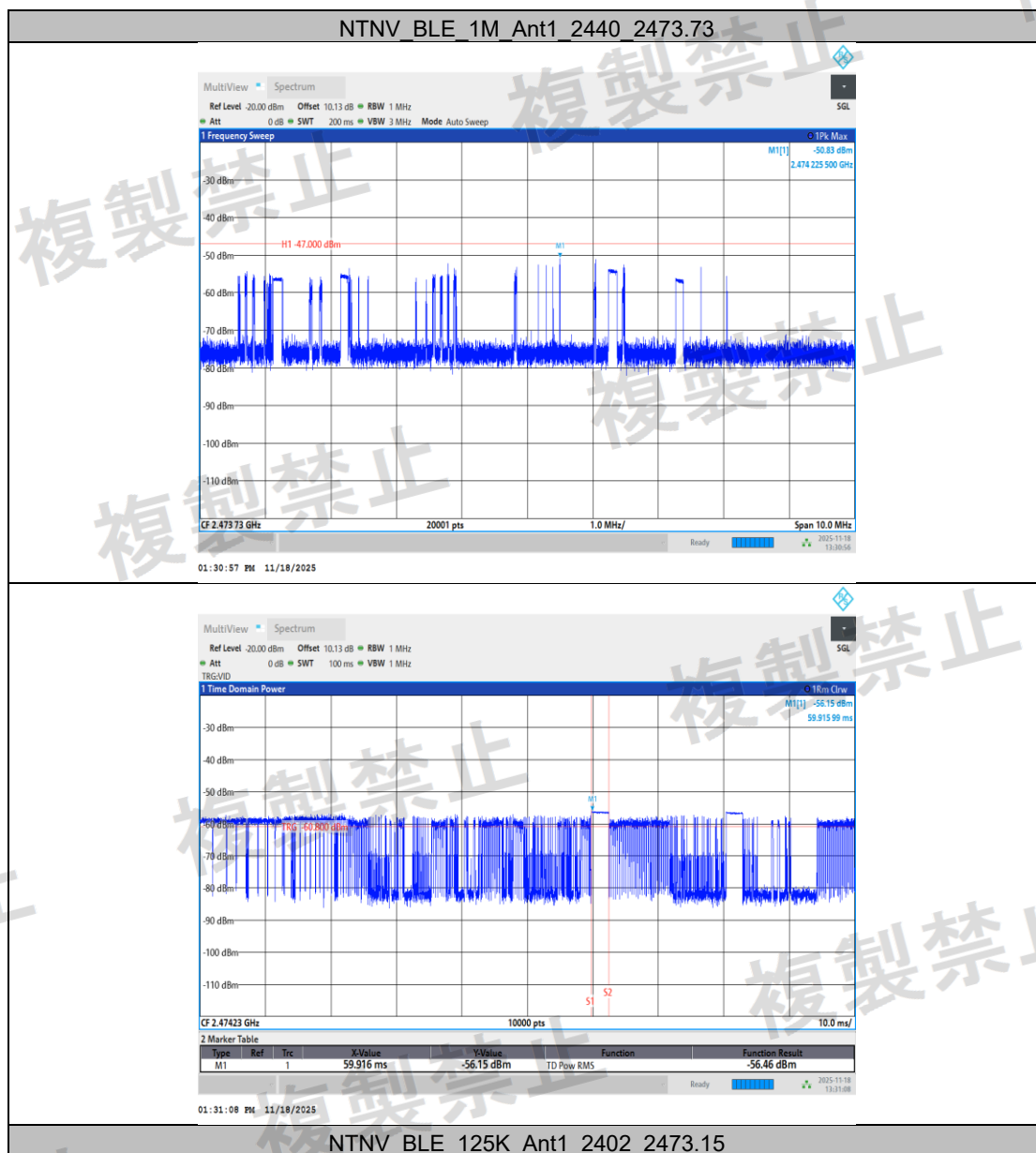




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VERITAS

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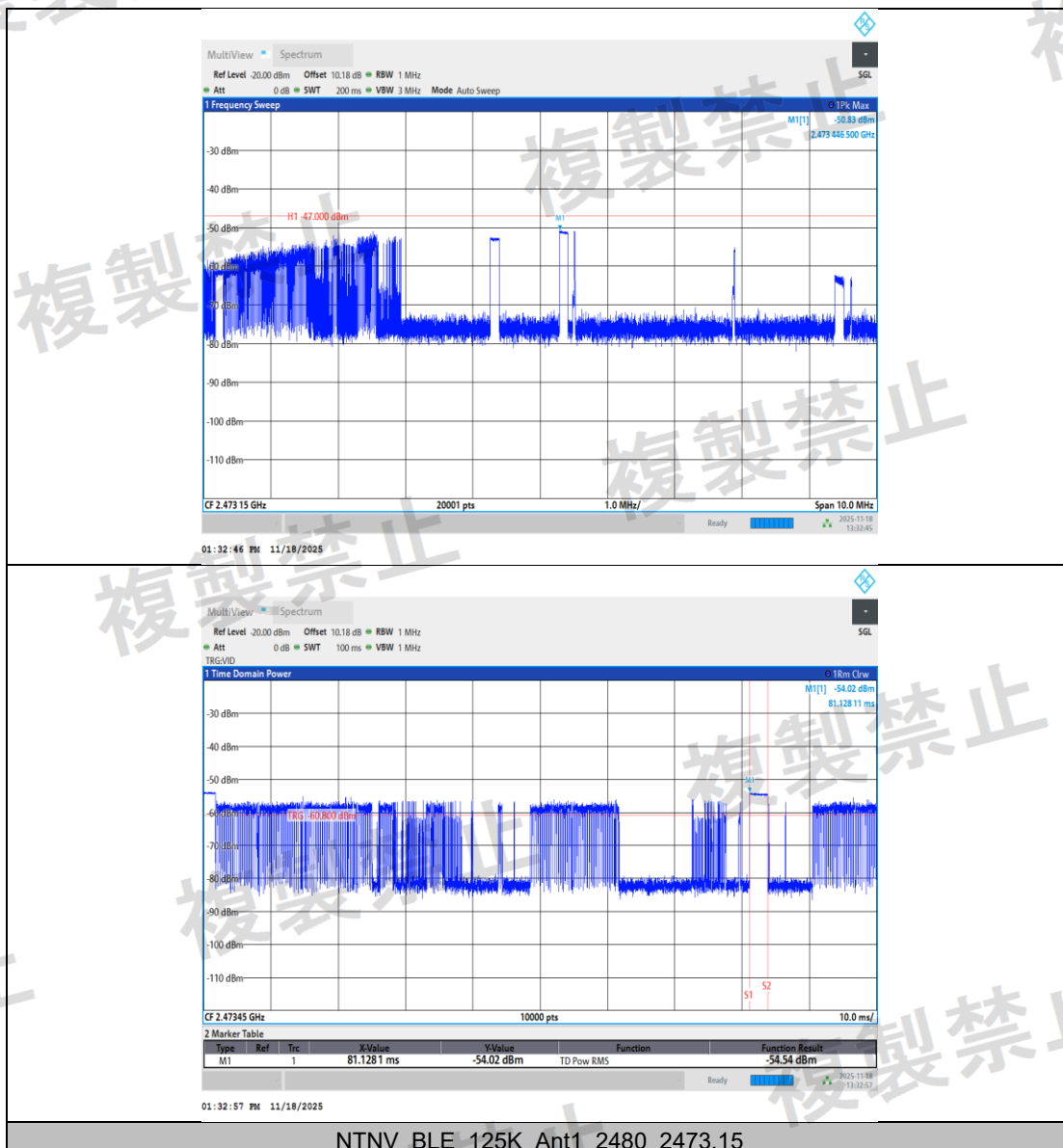
TEST GRAPHS_STEP2





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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01





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VERITAS

Test Report No.: PSU-QBJ2511130112RJ01

