

TEST REPORT

Report No..... : KS2605S2715E02

Applicant..... : FITS CORPORATION K.K.

Address..... : Oak Omotesando bldg. 7/8F, 3-6-1 Kita-aoyama, Minato-ku, Tokyo,
Japan 107-0061

Manufacturer..... : Shenzhen Jingxintai Houseware Co., Ltd.

Address..... : 2&3/F, 7th Block, Hong'ao Industry Park, Tianliao Community, Guangming
District, Shenzhen, Guangdong Province, China.

Product Name..... : AROMA DIFFUSER

Model/Type reference..... : eq-1

Standard..... : Article 2-1, Item 19

Date of Receipt..... : May 22, 2026

Date of Test Date..... : May 22, 2026 to July 9, 2026

Date of issue..... : July 13, 2026

Test result..... : Pass

Conclusion..... : The submitted sample was found to COMPLY with the standards above.

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Approved by:	Name: Neil Wan Title: General Manager	<i>Neil Wan</i>

Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

Address..... : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial
Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong,
China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

Article 2-1, Item 19 : 2.4GHz for SRD/BT/WIFI

1.2. Report Version

Revised No.	Date of issue	Description
01	July 13, 2026	Original

1.3. Test Description

Test Item	Standard	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Antenna Power and Tolerance	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Spurious Emission Intensity	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Secondary Radiated Emissions	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Dwell Time	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Interference Prevention Function	Article 2-1, Item 19	Article 2-1, Item 19	Pass

1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.

West Side of

1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park,
Minzhu, Shatou, Shajing, Bao'an District, Shenzhen,
Guangdong, China

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

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co.,Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025:2017 General Requirements)for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

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

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

1.5. Measurement Uncertainty

Test Items	Measurement Uncertainty
Output Power, Conducted	$\pm 1.4\text{dB}$

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %. Otherwise required by the applicant or Product Regulations. Decision Rule in this report did not consider the uncertainty.

1.6. Environmental Conditions

Environment	Temperature (°C)	Voltage (VDC)
NTHV	25	5.5
NTLV	25	4.5
NTNV	25	5

1.7. Environmental Conditions

EUT supply voltage	Module's input voltage	Module's rated voltage	Tolerance (%)
DC 4.5V	DC 3.3V	DC 3.3V	0
DC 5V	DC 3.3V	DC 3.3V	0
DC 5.5V	DC 3.3V	DC 3.3V	0

Note:

When the input voltage to EUT from the external source changes at 10%, the change of the input voltage to RF Module circuit of EUT is less than 1%, thus test item only need to test for normal condition.

TRF No. RF_R1

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2. GENERAL INFORMATION

2.1. General Description Of EUT

Test Sample Number:	KS2605S2715E-001, KS2605S2715E-002
Product Name:	AROMA DIFFUSER
Model / Type reference:	eq-1
Power Supply:	DC 5V from adapter and AC 100V from external circuit
Power Supply(Adapter):	Model: AS019W-0501000JU Input: AC 100-240V 50/60Hz, 0.6A Output: DC 5V, 1A
Operation Frequency:	2402-2480MHz
Number of Channels:	79
Modulation Type:	GFSK, Pi/4-DQPSK,8DPSK
Antenna Type:	PCB
Antenna Gain:	-0.58dBi
Max TX Power:	2.0512mW/MHz
Hardware Version:	V1.0
Software Version:	V1.0

Note:Antenna gain provided by the applicant Can affect the validity of results

2.2. Accessory Equipment Information

Title	Manufacturer	Model No.	Technical Parameters	Provided by
Computer	HP	15-cd028AX	/	Laboratory

2.3. Description of Test Modes

No.	Title	Description of Mode
Test Mode1	TX mode	Keep EUT in transmitting mode
Test Mode2	RX mode	Keep EUT in receiving mode

2.4. Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

2.5. Measurement Instruments List

Tolerance of Frequency Occupied Bandwidth (99%) Antenna Power and Tolerance Spurious Emission Intensity Secondary Radiated Emissions Dwell Time				
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
Wideband Radio Communication Tester	R&S	CMU200	115297	2026-12-11
Audio Analyzer	R&S	UPL16	100001	2026-12-11
Shielding box	Gxiong	GX-5915A	2201113	2026-12-11
High Pass Filter	COM-MW Technology Co., Ltd	ZHPF-M1.2-9G-187	09203403	2026-12-11
Band Stop Filter	COM-MW Technology Co., Ltd	ZBSF6-C820-920-188	09203401	2026-12-11
Splitter	COM-MW Technology Co., Ltd	ZPD-M1-8-2103	09203407	2026-12-11
Coaxial Cable	BEBES	A40-2.92M2.92F-4.5M	1907021	2026-12-11
Hygrothermograph	Anymetre	JB913	/	2026-12-11
Climate Chamber	Angul	AGNH80L	1903042120	2026-12-11
Spectrum Analyzer	HP	8593E	3831U02087	2026-12-11
Dual Output DC Power Supply	Agilent	E3646A	MY40009992	2026-12-11
RF Control Unit	Tonscend	JS0806-2	/	2026-12-11
Analog Signal Generator	HP	83752A	3344A00337	2026-12-11
Vector Signal Generator	Agilent	N5182A	MY50142520	2026-12-11
Wideband Radio Communication Tester	R&S	CMW500	157282	2027-01-07
Spectrum Analyzer	R&S	FSV40-N	101798	2027-01-07

Note: Calibration method: Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 24-2, Paragraph 4 of the Radio Act.

3. Evaluation Results (Evaluation)

3.1. Interference Prevention Function

Test Requirement:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Test Method:	Notification No.88 of MIC, 2004
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different

3.1.1. Conclusion:

The detected ID of the device is below:

5A:B1:34:A2:A2:C3

Test result: The device meet the requirements
PASS

4. Radio Spectrum Matter Test Results (RF)

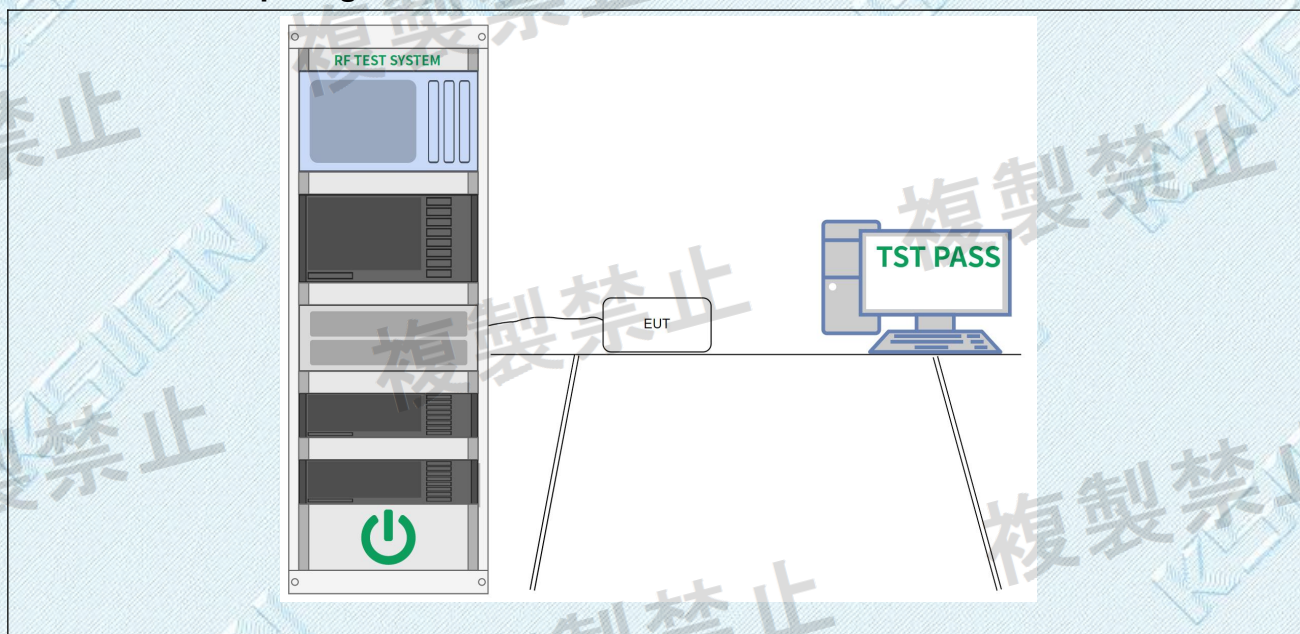
4.1. Tolerance of Frequency

Test Requirement:	Article 2-1, Item 19	
Test Limit:	±50ppm or less.	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	Center frequency:	Test frequency
	Span:	2 times channel bandwidth
	RBW:	100 kHz (Modulation ON)
	VBW:	100 kHz (Modulation ON)
	Sweep data points:	1001 or greater
	Sweep time:	Auto
	Detector mode:	Positive peak
	Indication mode:	Max hold
If the EUT cannot transmit in un-modulated mode then modulated mode measurements can be made, as follows: If the spectrum observed using the spectrum analyzer has a characteristic dip at the center, then the center frequency of the dip shall be regarded as the center frequency of the carrier.		

4.1.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1

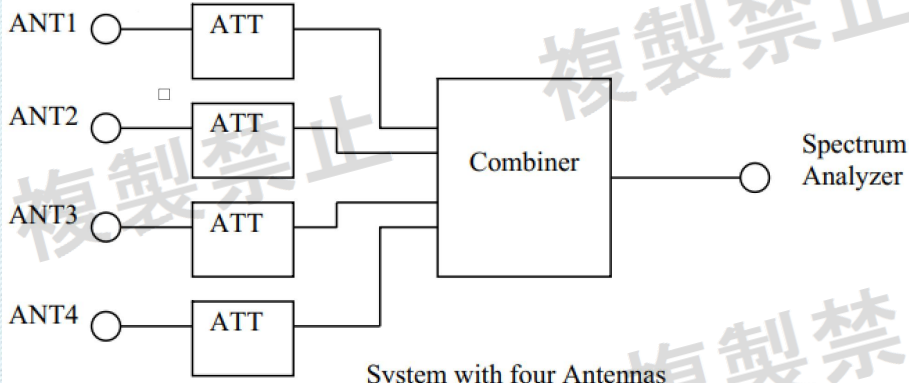
4.1.2. Test Setup Diagram:



4.1.3. Test Data:

Please Refer to Appendix for Details.

4.2. Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19																		
Test Limit:	For FHSS or FHSS and other modulation Hybrid: 83.5 MHz or less: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 83.5 MHz or less																		
Test Method:	Notification No.88 of MIC, 2004																		
Procedure:	<table border="1"> <tr> <td>Center Frequency:</td><td>Test frequency</td></tr> <tr> <td>Span:</td><td>2 - 3.5 times the technical standard</td></tr> <tr> <td>RBW:</td><td>Within 3% of the technical standard</td></tr> <tr> <td>VBW:</td><td>Same as RBW</td></tr> <tr> <td>Sweep time:</td><td>Auto</td></tr> <tr> <td>Sweep data points:</td><td>1001 or greater</td></tr> <tr> <td>Detector mode:</td><td>Positive peak</td></tr> <tr> <td>Indication mode:</td><td>Max hold</td></tr> <tr> <td>BW setting:</td><td>99%</td></tr> </table> (1) Measure the signal bandwidth using a spectrum analyzer (2) For multiple antenna systems: a) Each antenna shall be individually measured b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:  System with four Antennas	Center Frequency:	Test frequency	Span:	2 - 3.5 times the technical standard	RBW:	Within 3% of the technical standard	VBW:	Same as RBW	Sweep time:	Auto	Sweep data points:	1001 or greater	Detector mode:	Positive peak	Indication mode:	Max hold	BW setting:	99%
Center Frequency:	Test frequency																		
Span:	2 - 3.5 times the technical standard																		
RBW:	Within 3% of the technical standard																		
VBW:	Same as RBW																		
Sweep time:	Auto																		
Sweep data points:	1001 or greater																		
Detector mode:	Positive peak																		
Indication mode:	Max hold																		
BW setting:	99%																		

4.2.1. E.U.T. Operation:

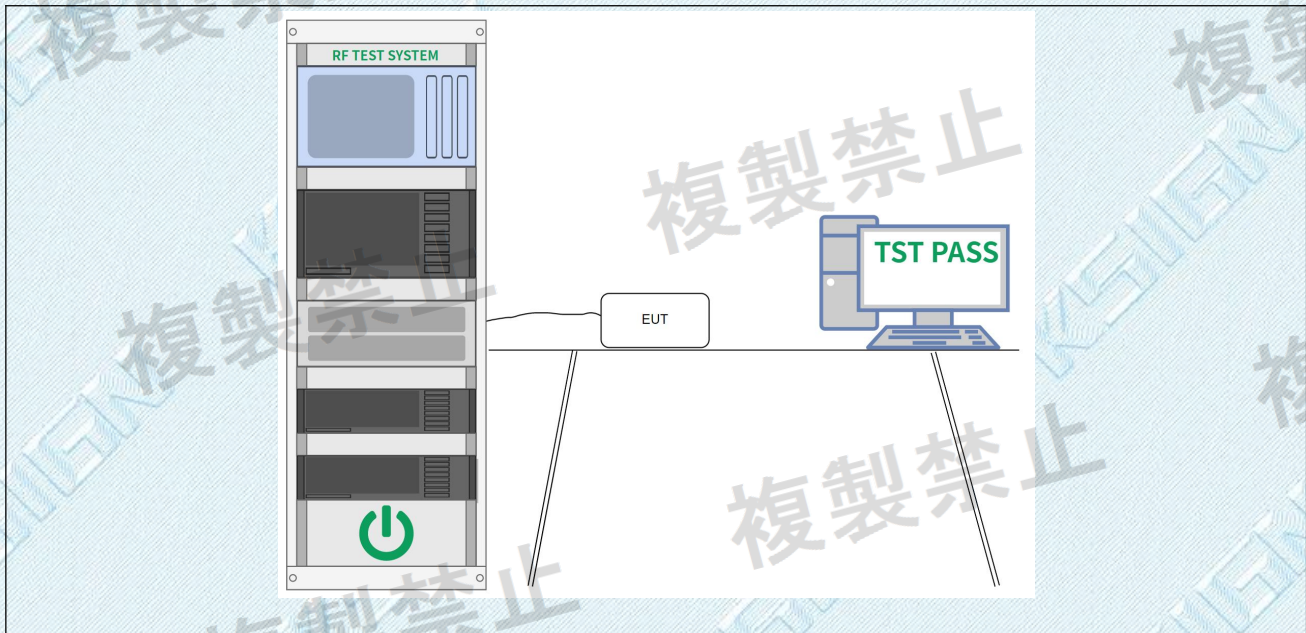
Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1

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4.2.2. Test Setup Diagram:



4.2.3. Test Data:

Please Refer to Appendix for Details.

4.3. Antenna Power and Tolerance

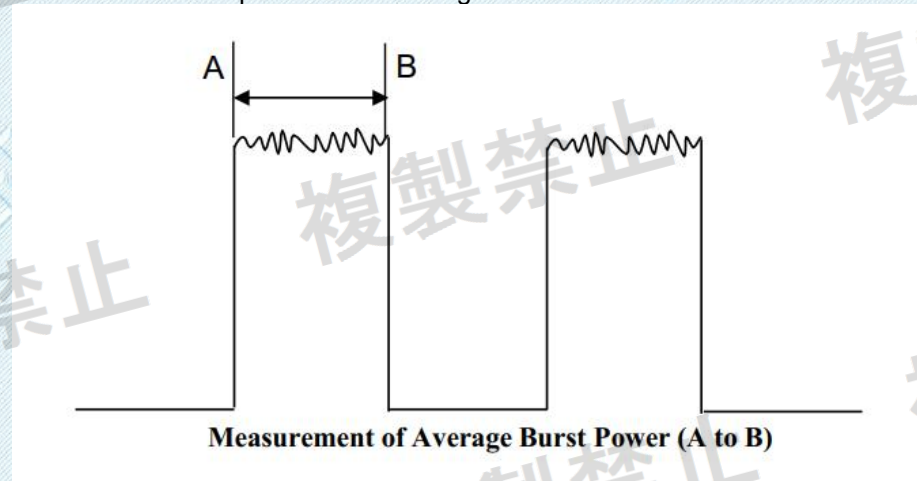
Test Requirement:	Article 2-1, Item 19	
Test Limit:	Antenna Power: 3 mW/MHz or less Tolerance: +20% or less EIRP: 16.91dBm/MHz	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1] – Search for peak power frequency	
	Center Frequency:	Test frequency
	Span:	Approximately twice the occupied bandwidth
	RBW:	1MHz
	VBW:	Approximately three times the RBW
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM	
	Frequency:	Frequency of peak power found using [Setting 1]
	Span:	0 Hz
	RBW:	3 MHz (FHSS-Channel Spacing ≤ 1MHz) 1MHz (DSSS, OFDM, FHSS-Channel Spacing > 1MHz)
	Detector mode:	Sample
	Sweep:	Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval	
	Sweep data points:	1001 or greater
	[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM	
	Frequency:	Frequency of peak power found using [Setting 1]
	Span:	0 Hz
	RBW:	Bandwidth sufficient to cover that occupied by the carrier
	VBW:	Bandwidth sufficient to cover that occupied by the carrier
	Detector mode:	Sample
	Sweep:	Minimum time required to make an accurate measurement.
	For burst type (intermittent) transmission sweep time shall be greater than one burst interval	
	Sweep data points:	1001 or greater
	- A hopping transmission separation of 1MHz or less with a constant transmission interval - The transmission probability is equal for all hopping frequencies Procedure: (1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power (2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1)	

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Note: Measure the period A-B in the figure below:



(3) Calculate Antenna Power using the following formula:

Antenna Power (W/MHz) = Average Burst Power (W) / Spread Bandwidth (MHz) [Note]

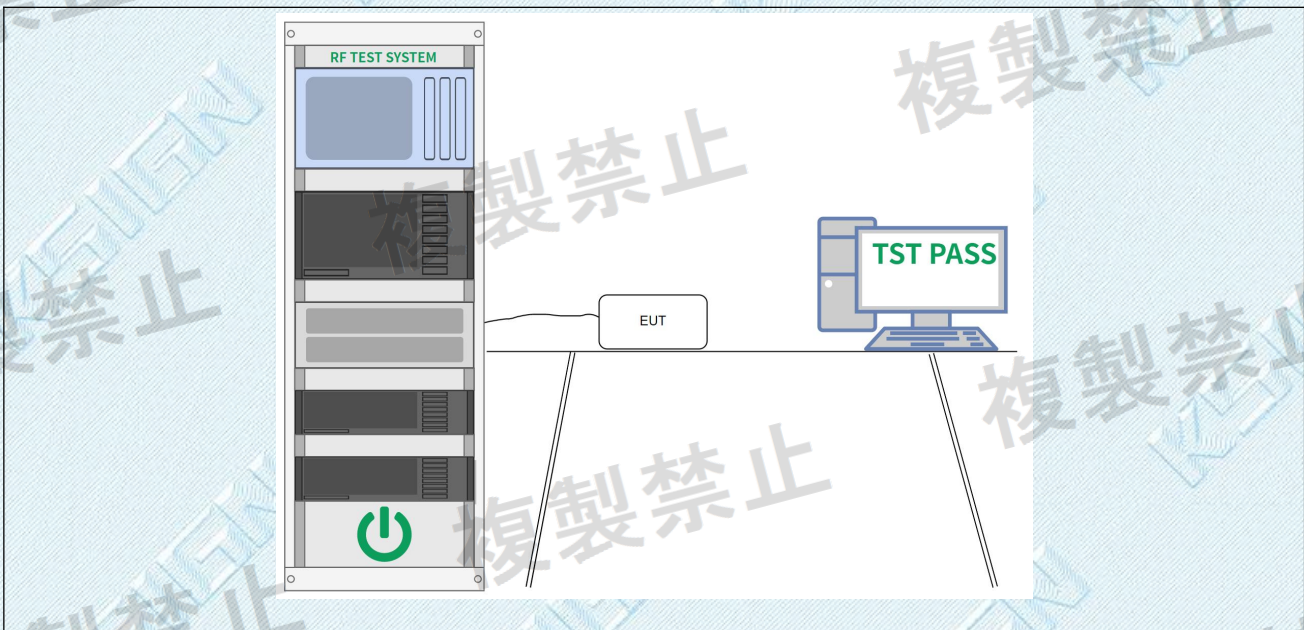
Spread Bandwidth in the formula above is derived from the data collected in section 5 (Occupied Bandwidth (99%) and Spread Bandwidth (90%))

(4) If the EUT has multiple antennas then each antenna power output shall be measured individually – the sum of these individual measurements shall represent the power output value

4.3.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1

4.3.2. Test Setup Diagram:



4.3.3. Test Data:

Please Refer to Appendix for Details.

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4.4. Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19	
Test Limit:	(1) Below 2387 MHz: 2.5 μ W (-26 dBm)/MHz or less (2) 2387 to 2400 MHz: 25.0 μ W (-16 dBm)/MHz or less (3) 2483.5 to 2496.5 MHz: 25.0 μ W (-16 dBm)/MHz or less (4) Over 2496.5 MHz: 2.5 μ W (-26 dBm)/MHz or less	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1]	
	Frequency range:	(see Note 1)
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement
	Sweep Data Points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold (see Note 2)
	Note 1:	Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases: -FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz -Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz
	Note 2:	Sweep shall be repeated until the max hold waveform is stable.
	[Setting 2]	
	Center frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval
	Sweep Data Points:	1001 or greater
	Detector mode:	Sample
	[Setting 3]	
	Frequency range:	2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz
	RBW:	30 kHz
	VBW:	30 kHz
	Sweep time:	Minimum time required to make an accurate measurement.
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the	

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required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.

If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.

If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)

(3) In the following cases, measure the spurious emissions using [Setting 3]

- Case1: FHSS, FHSS+DSSS, FHSS+OFDM
- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit

(4) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)

Note: 15.2dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2 \text{ [dB]}$ Where: Reference Bandwidth = 1 MHz

RBW of measurement = 30 kHz

(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes: Frequency: Frequency of spurious emission

Span: 1 MHz

(7) After sweep, send the span data set to the PC

(8) Convert measured data from dBm to Watts

(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)

Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)

n: Number of measurement points in the Span

k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide

RBW: Resolution Bandwidth (MHz).

(10) If the EUT has multiple antennas, measure the spurious emission from each individual antenna using steps (1) through (9)

(11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)

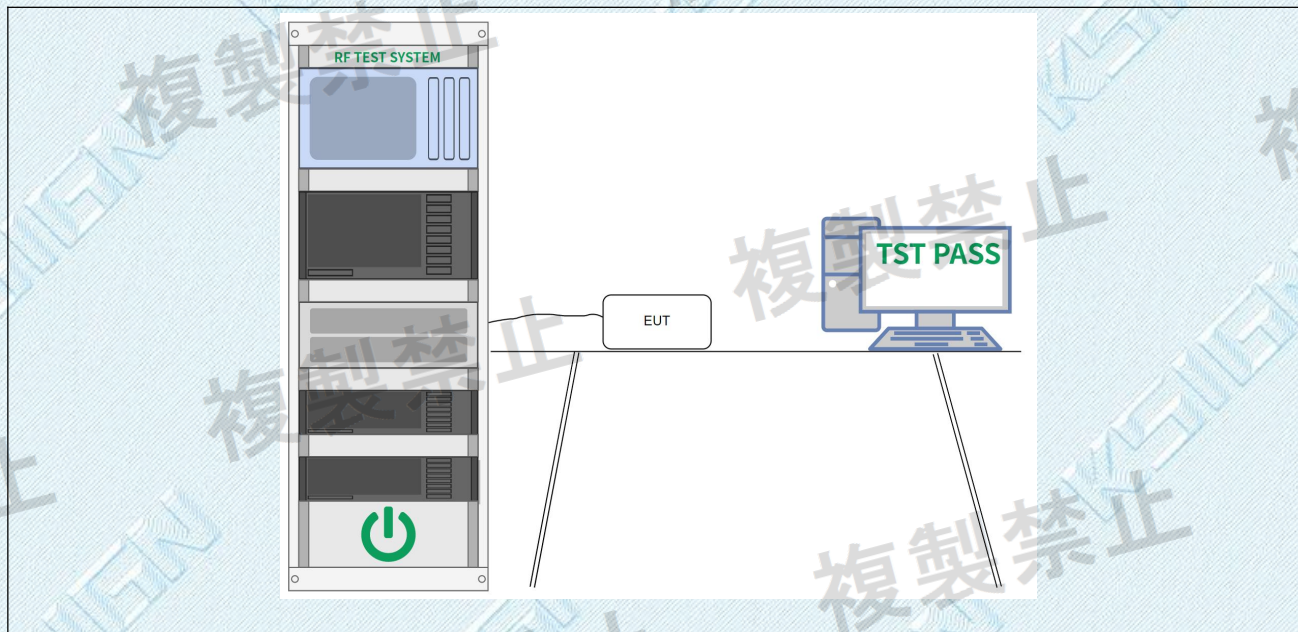
(13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard)

(14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined

4.4.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1

4.4.2. Test Setup Diagram:



4.4.3. Test Data:

Please Refer to Appendix for Details.

4.5. Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19	
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1]	
	Frequency range:	30 MHz ~ 12.5 GHz
	RBW:	Below 1 GHz:100 kHz Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2]	
	Center Frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	Below 1 GHz:100 kHz Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Sample
	(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points].	
	(2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)	
	(3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.	

4.5.1. E.U.T. Operation:

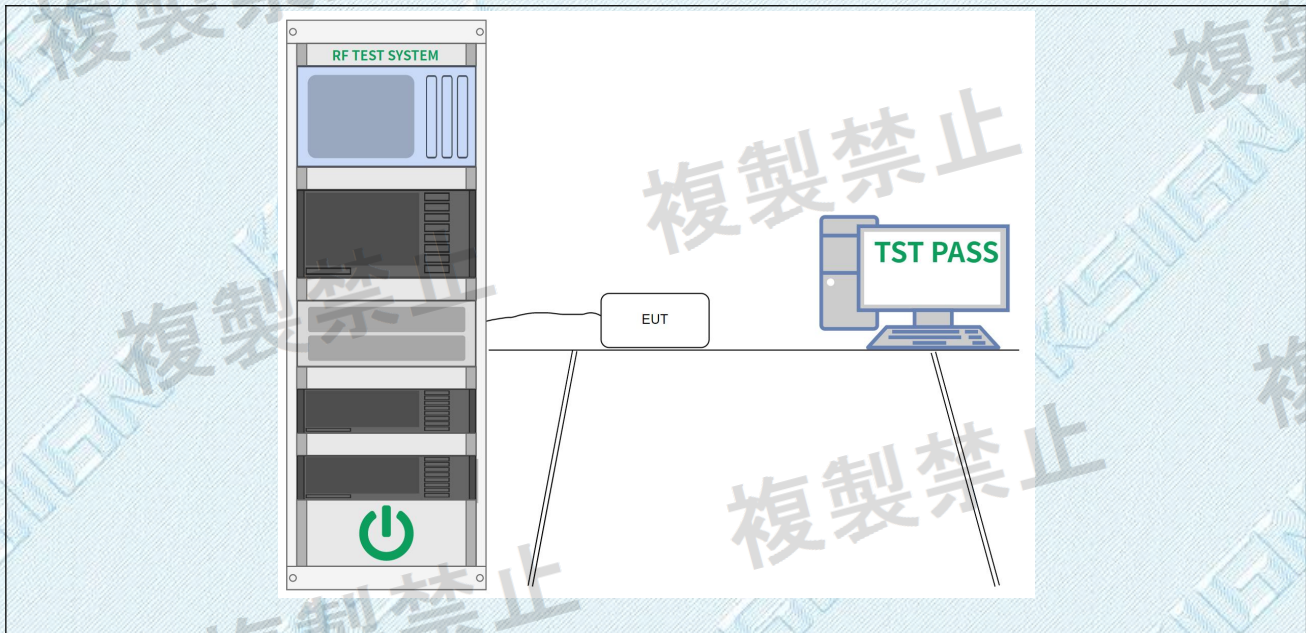
Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode2

TRF No. RF_R1

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4.5.2. Test Setup Diagram:



4.5.3. Test Data:

Please Refer to Appendix for Details.

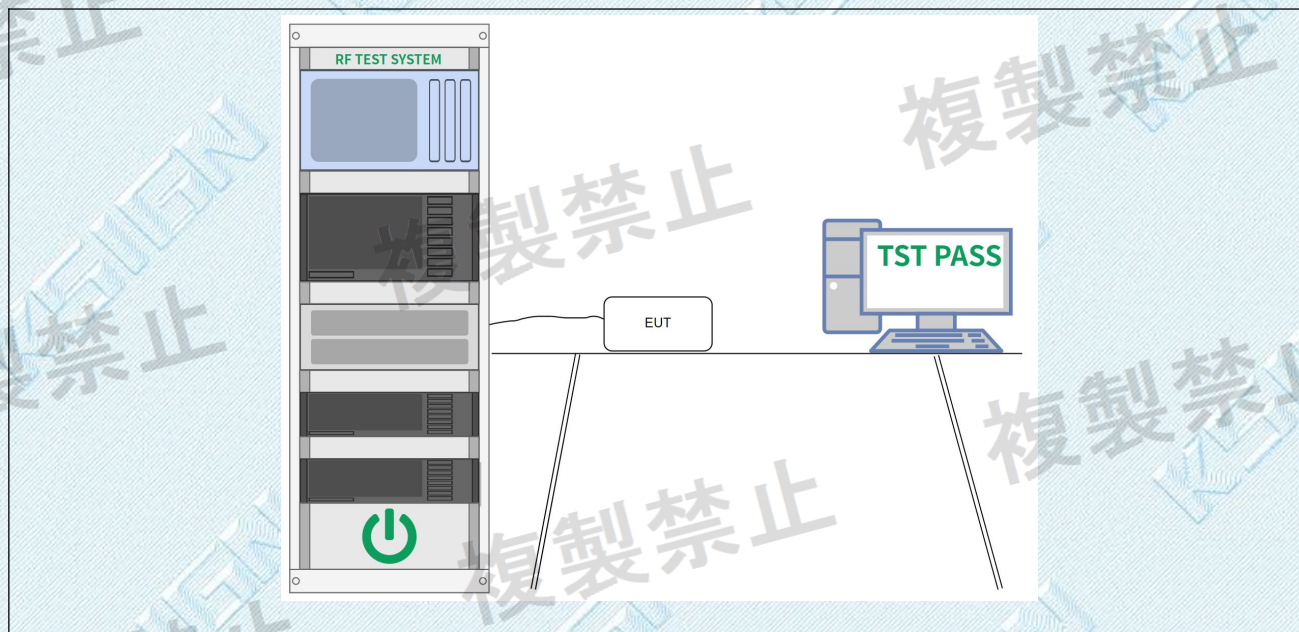
4.6. Dwell Time

Test Requirement:	Article 2-1, Item 19	
Test Limit:	Transmit ON Time shall be less than 0.4 seconds Total Dwell Time shall be less than 0.4 seconds	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	[Setting 1]	
	Frequency:	Test frequency
	Span:	0 Hz
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep data points:	1001 or greater
	Trigger:	Video trigger
	Detection mode:	Positive peak
(1) Configure the spectrum analyzer to [Setting 1] (2) Measure the Burst Cycle and Transmit ON Time (3) Total Dwell Time shall be calculated by the following formula: Total Dwell Time = (0.4 x Spreading Rate x Transmit ON Time) / (Burst Cycle x Number of Hopping Channels) [Notes] a. Spreading Rate = Spread Bandwidth (measured value) / Transmission Rate b. Transmit ON Time and Burst Cycle are both measured in Seconds c. Numerical Coefficient (0.4) is a dimensionless number defined in the technical standard		

4.6.1. E.U.T. Operation:

Operating Environment:	
Temperature:	25.2 °C
Humidity:	44.1 %
Atmospheric Pressure:	102 kPa
Final test mode:	Test Mode1

4.6.2. Test Setup Diagram:



4.6.3. Test Data:

Please Refer to Appendix for Details.

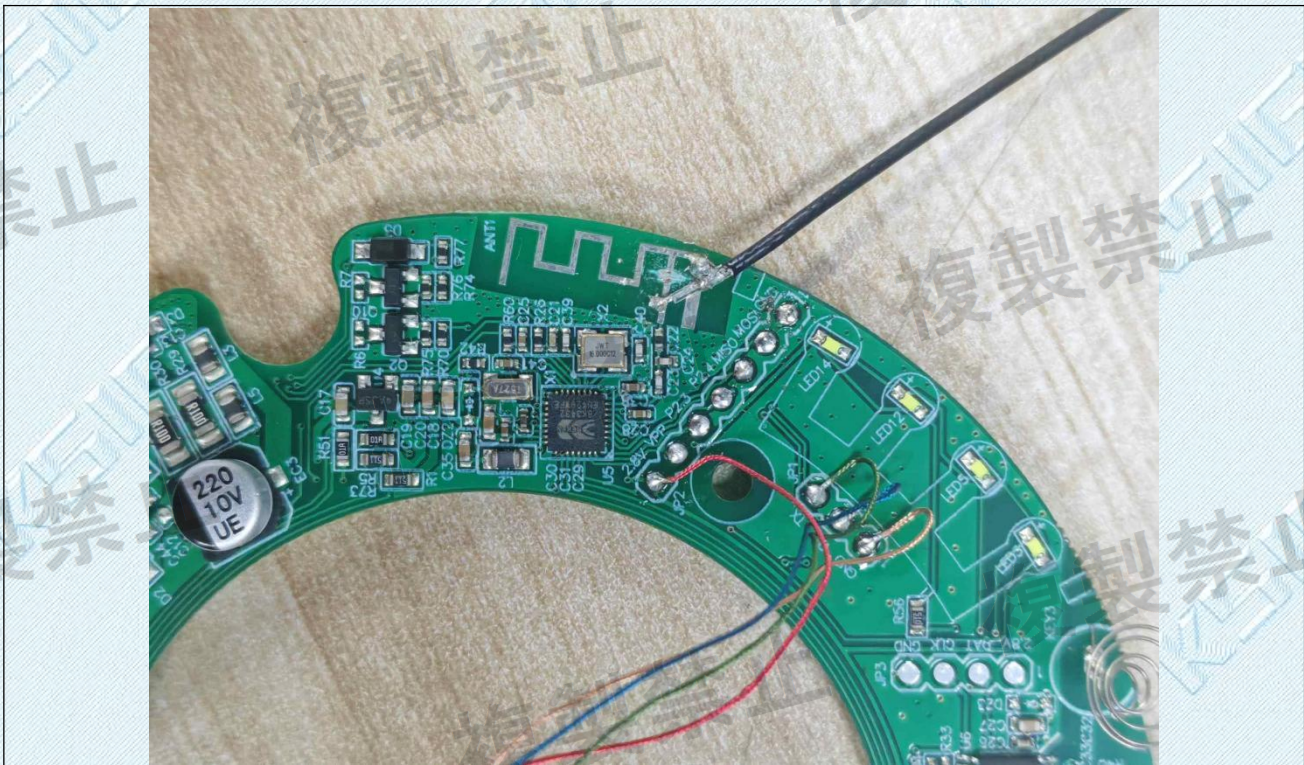
TRF No. RF_R1

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5. EUT TEST PHOTOS

RF



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6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Refer to Appendix - EUT Photos for KS2605S2715E.docx

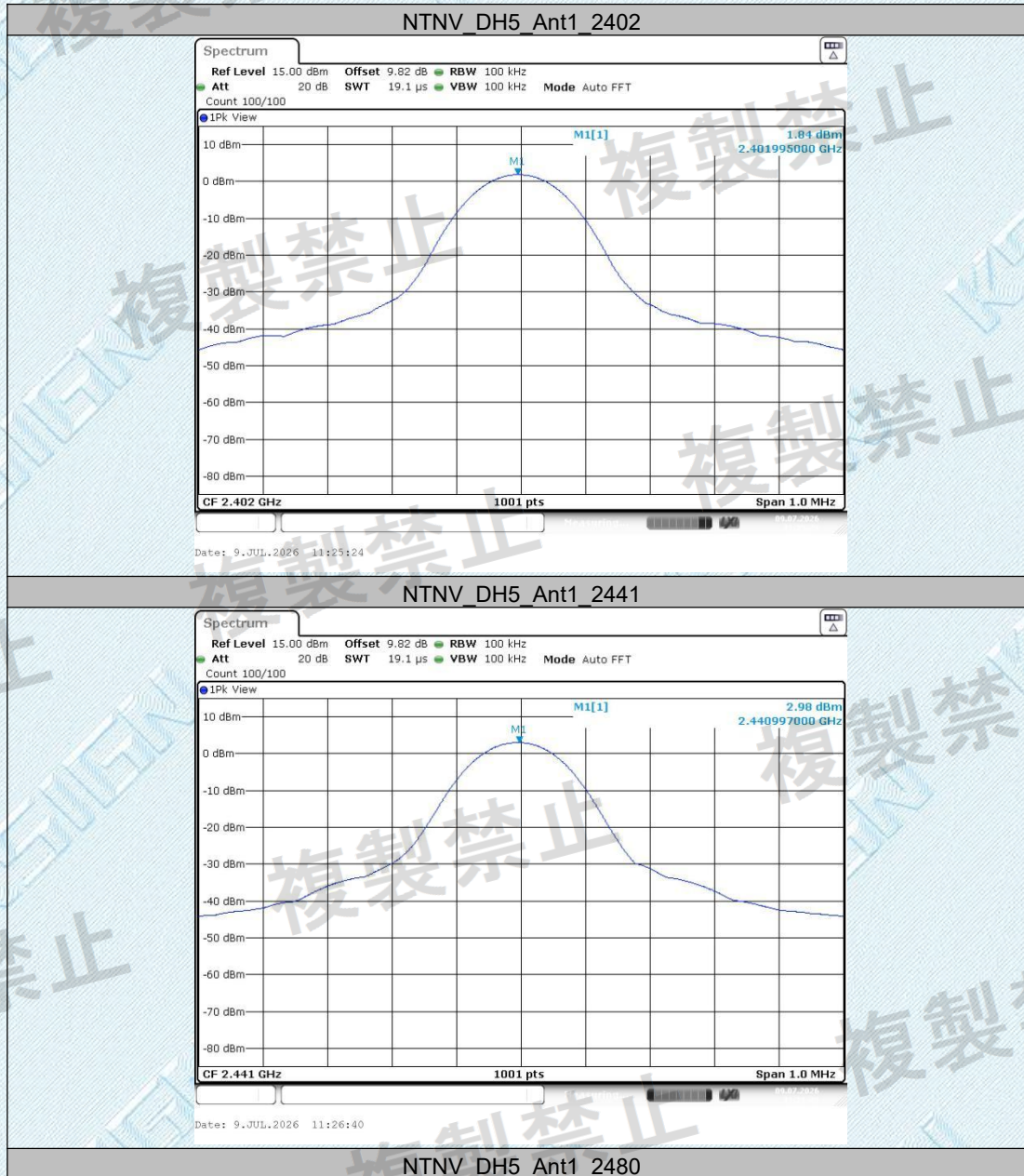
Appendix

6.1. Appendix A: Frequency_Error

6.1.1. Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	DH5	Ant1	2402	-2.08160	±50	PASS
			2441	-1.22901	±50	PASS
			2480	-2.41936	±50	PASS
	2DH5	Ant1	2402	-1.66528	±50	PASS
			2441	-2.04834	±50	PASS
			2480	-2.41936	±50	PASS
	3DH5	Ant1	2402	-1.66528	±50	PASS
			2441	-2.04834	±50	PASS
			2480	-2.01613	±50	PASS

6.1.2. Test Graphs



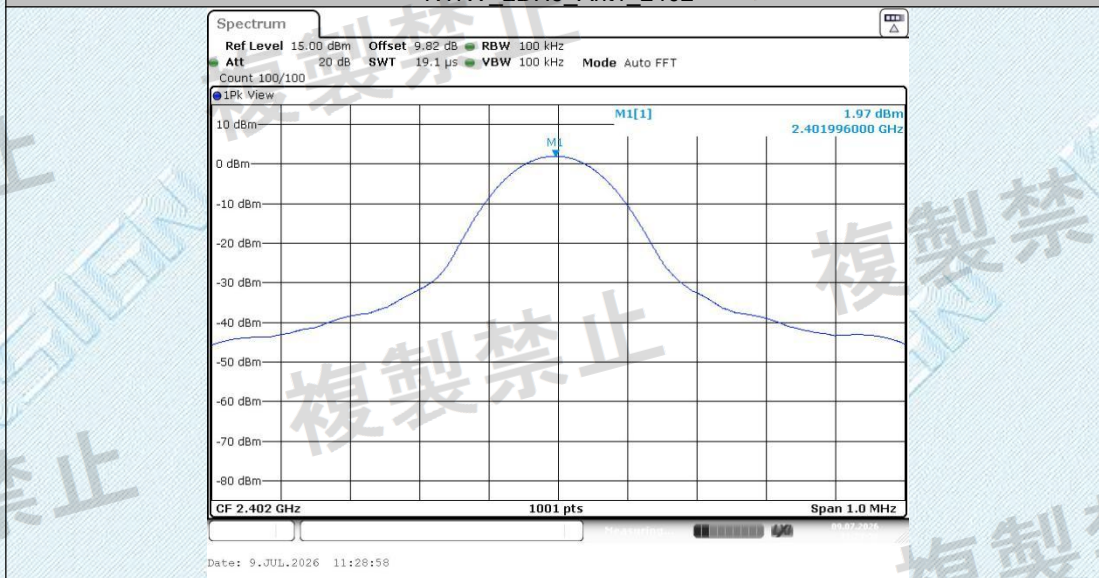
TRF No. RF_R1

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NTNV_2DH5_Ant1_2402



NTNV_2DH5_Ant1_2441

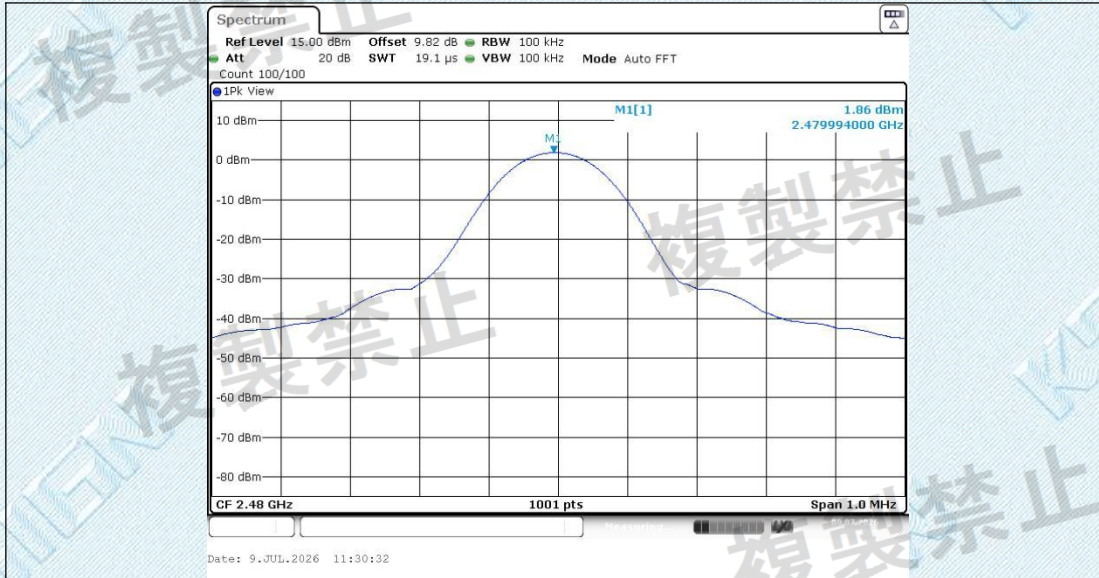


NTNV_2DH5_Ant1_2480

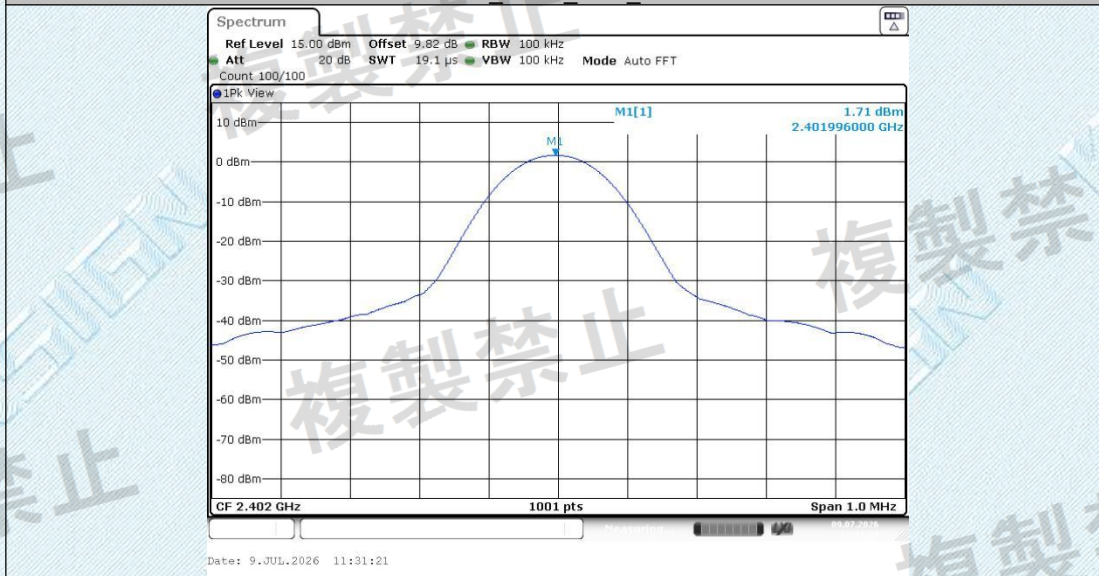
TRF No. RF_R1

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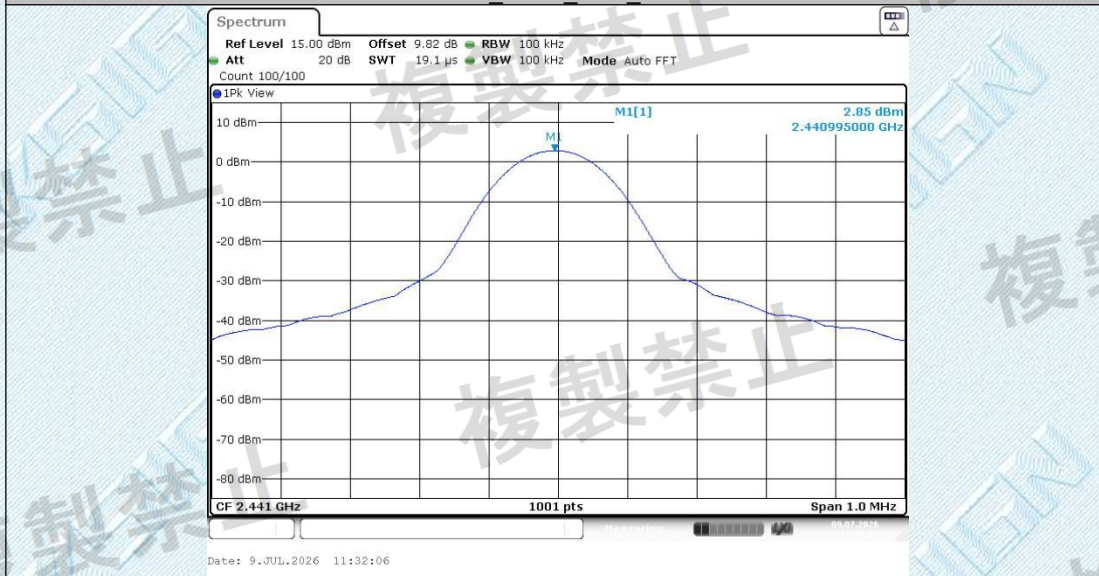
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NTNV_3DH5_Ant1_2402



NTNV_3DH5_Ant1_2441

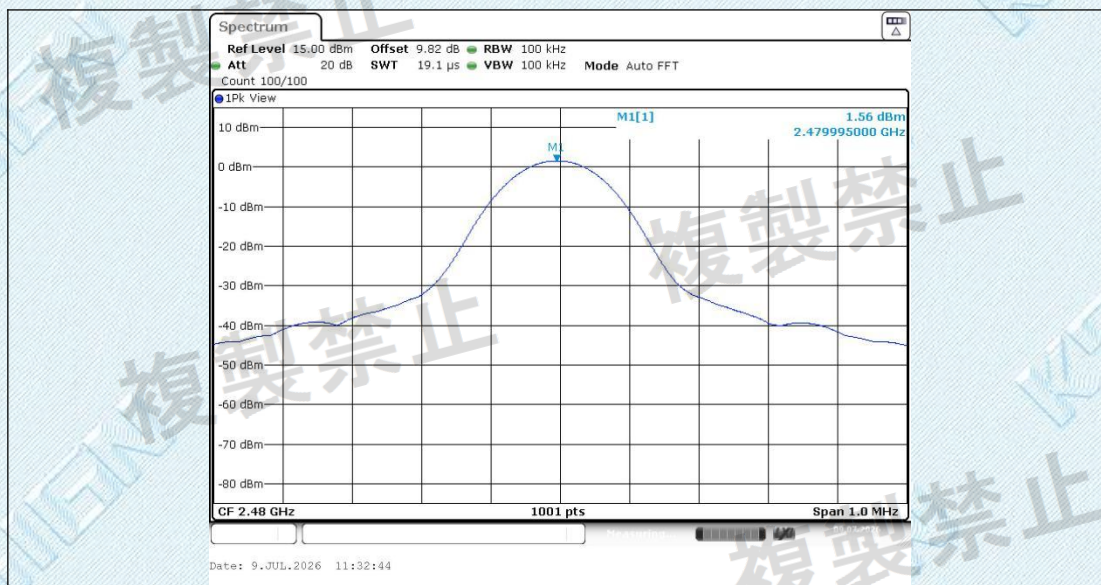


NTNV_3DH5_Ant1_2480

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6.2. Appendix B: Antenna Power

6.2.1. Test Result

Antenna Power									
Test Condition	TestMode	Antenna	Freq(M Hz)	Result (dBm)	Result (mW)	90% BW (MHz)	Result (mW /MHz)	Limit (mW /MHz)	Verdict
NTNV	DH5	Ant1	Hop	2.70	1.8621	71.628	0.0260	≤3	PASS
	2DH5	Ant1	Hop	2.92	1.9588	72.028	0.0272	≤3	PASS
	3DH5	Ant1	Hop	3.12	2.0512	69.830	0.0294	≤3	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Freq (MHz)	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	DH5	Ant1	Hop	0.0260	3	-99.13	+20	PASS
	2DH5	Ant1	Hop	0.0272	3	-99.09	+20	PASS
	3DH5	Ant1	Hop	0.0294	3	-99.02	+20	PASS

EIRP							
Test Condition	TestMode	Antenna	Freq (MHz)	Power (dBm/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	DH5	Ant1	Hop	-15.85	-16.43	≤6.91	PASS
	2DH5	Ant1	Hop	-15.66	-16.24	≤6.91	PASS
	3DH5	Ant1	Hop	-15.32	-15.90	≤6.91	PASS

Note:

Gain= - 0.58dBi

EIRP=Power + ANT Gain

TRF No. RF_R1

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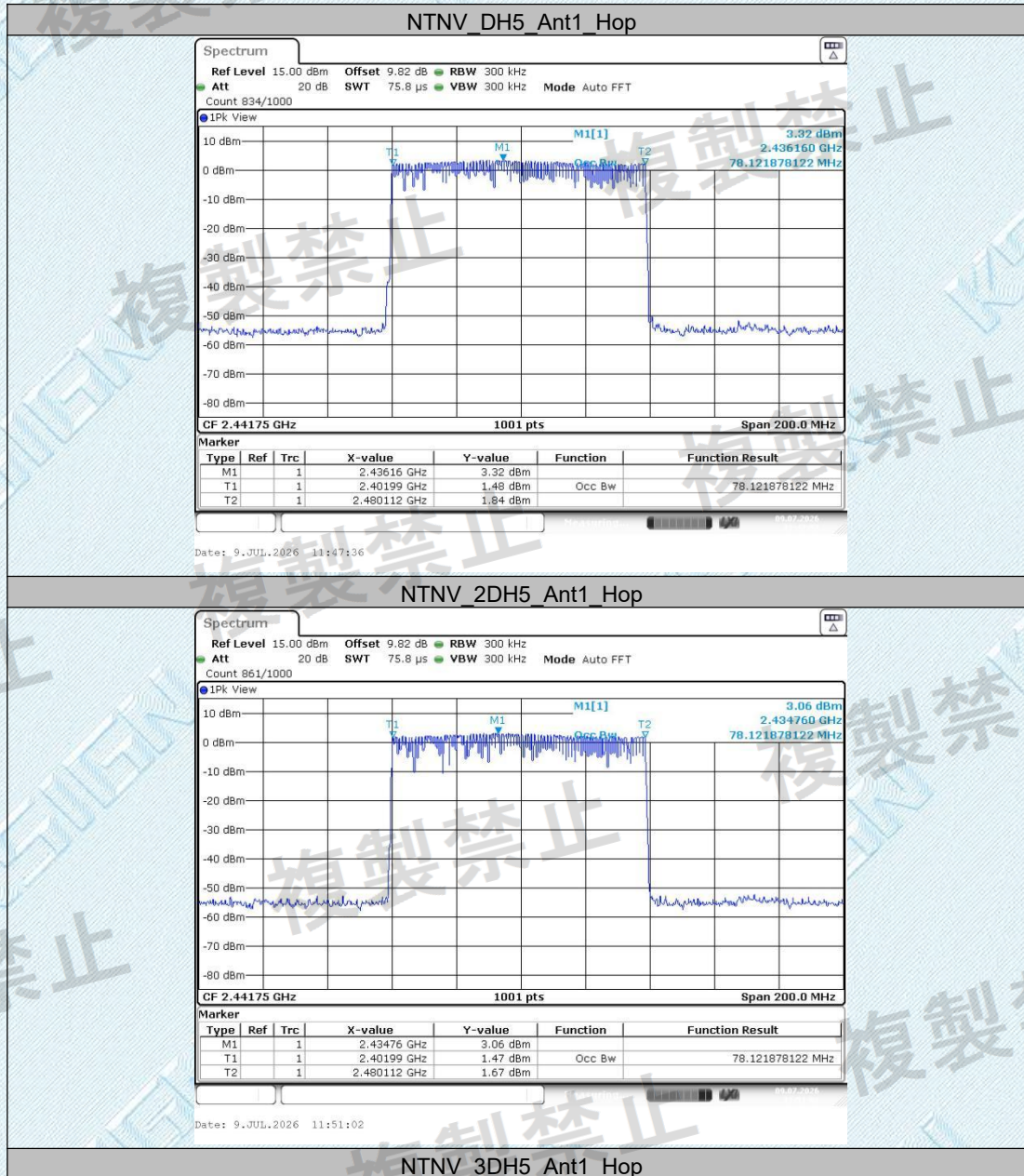
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6.3. Appendix C: Occupied Bandwidth

6.3.1. Test Result

Test Condition	Test Mode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	DH5	Ant1	Hop	78.122	≤83.5	PASS
	2DH5	Ant1	Hop	78.122	≤83.5	PASS
	3DH5	Ant1	Hop	78.122	≤83.5	PASS

6.3.2. Test Graphs



TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.4. Appendix E: Spurious Emission of TX

6.4.1. Test Result

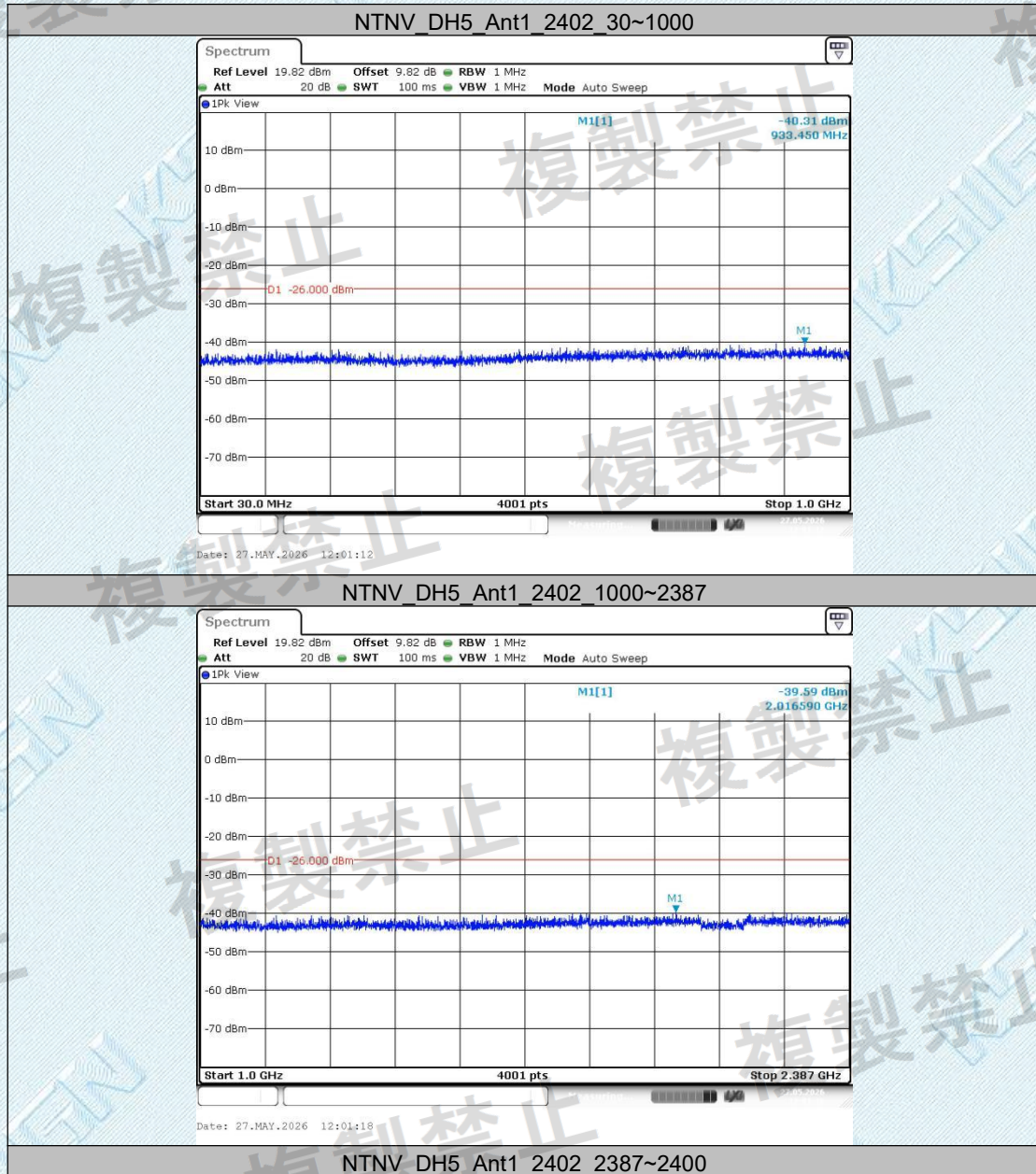
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	933.45	-40.31	≤-26	0.093	≤2.5	PASS
				1000~2387	2016.59	-39.59	≤-26	0.110	≤2.5	PASS
				2387~2400	2399.96	-26.05	≤-16	2.483	≤25	PASS
				2483.5~2496.5	2494.48	-29.25	≤-16	1.189	≤25	PASS
				2496.5~13000	5446.52	-36.04	≤-26	0.249	≤2.5	PASS
			2441	30~1000	617.55	-40.28	≤-26	0.094	≤2.5	PASS
				1000~2387	2137.23	-39.87	≤-26	0.103	≤2.5	PASS
				2387~2400	2394.18	-27.87	≤-16	1.633	≤25	PASS
				2483.5~2496.5	2487.13	-28.93	≤-16	1.279	≤25	PASS
				2496.5~13000	6986.78	-36.10	≤-26	0.245	≤2.5	PASS
			2480	30~1000	905.08	-40.03	≤-26	0.099	≤2.5	PASS
				1000~2387	1905.31	-39.77	≤-26	0.105	≤2.5	PASS
				2387~2400	2391.85	-29.42	≤-16	1.143	≤25	PASS
				2483.5~2496.5	2486.95	-29.42	≤-16	1.143	≤25	PASS
				2496.5~13000	5263.25	-35.72	≤-26	0.268	≤2.5	PASS
	2DH5	Ant1	2402	30~1000	972.48	-40.78	≤-26	0.084	≤2.5	PASS
				1000~2387	2176.40	-39.38	≤-26	0.115	≤2.5	PASS
				2387~2400	2390.25	-28.99	≤-16	1.262	≤25	PASS
				2483.5~2496.5	2496.23	-29.25	≤-16	1.189	≤25	PASS
				2496.5~13000	7206.30	-33.87	≤-26	0.410	≤2.5	PASS
			2441	30~1000	968.36	-40.64	≤-26	0.086	≤2.5	PASS
				1000~2387	1826.97	-39.74	≤-26	0.106	≤2.5	PASS
				2387~2400	2399.43	-28.95	≤-16	1.274	≤25	PASS
				2483.5~2496.5	2496.45	-28.86	≤-16	1.300	≤25	PASS
				2496.5~13000	6979.43	-35.57	≤-26	0.277	≤2.5	PASS
			2480	30~1000	903.39	-40.35	≤-26	0.092	≤2.5	PASS
				1000~2387	2260.29	-39.06	≤-26	0.124	≤2.5	PASS
				2387~2400	2399.84	-29.30	≤-16	1.175	≤25	PASS
				2483.5~2496.5	2489.04	-28.76	≤-16	1.330	≤25	PASS
				2496.5~13000	7439.99	-34.61	≤-26	0.346	≤2.5	PASS
	3DH5	Ant1	2402	30~1000	934.91	-40.60	≤-26	0.087	≤2.5	PASS
				1000~2387	2029.07	-39.60	≤-26	0.110	≤2.5	PASS
				2387~2400	2399.83	-29.08	≤-16	1.236	≤25	PASS
				2483.5~2496.5	2490.85	-29.07	≤-16	1.239	≤25	PASS
				2496.5~13000	7205.77	-33.65	≤-26	0.432	≤2.5	PASS
			2441	30~1000	940.24	-40.09	≤-26	0.098	≤2.5	PASS
				1000~2387	1782.94	-39.40	≤-26	0.115	≤2.5	PASS
				2387~2400	2394.73	-28.65	≤-16	1.365	≤25	PASS
				2483.5~2496.5	2485.33	-28.91	≤-16	1.285	≤25	PASS
				2496.5~13000	7322.88	-35.10	≤-26	0.309	≤2.5	PASS
			2480	30~1000	811.75	-40.27	≤-26	0.094	≤2.5	PASS
				1000~2387	1846.38	-39.43	≤-26	0.114	≤2.5	PASS
				2387~2400	2394.87	-28.67	≤-16	1.358	≤25	PASS
				2483.5~2496.5	2487.08	-28.76	≤-16	1.330	≤25	PASS
				2496.5~13000	7439.99	-35.62	≤-26	0.274	≤2.5	PASS

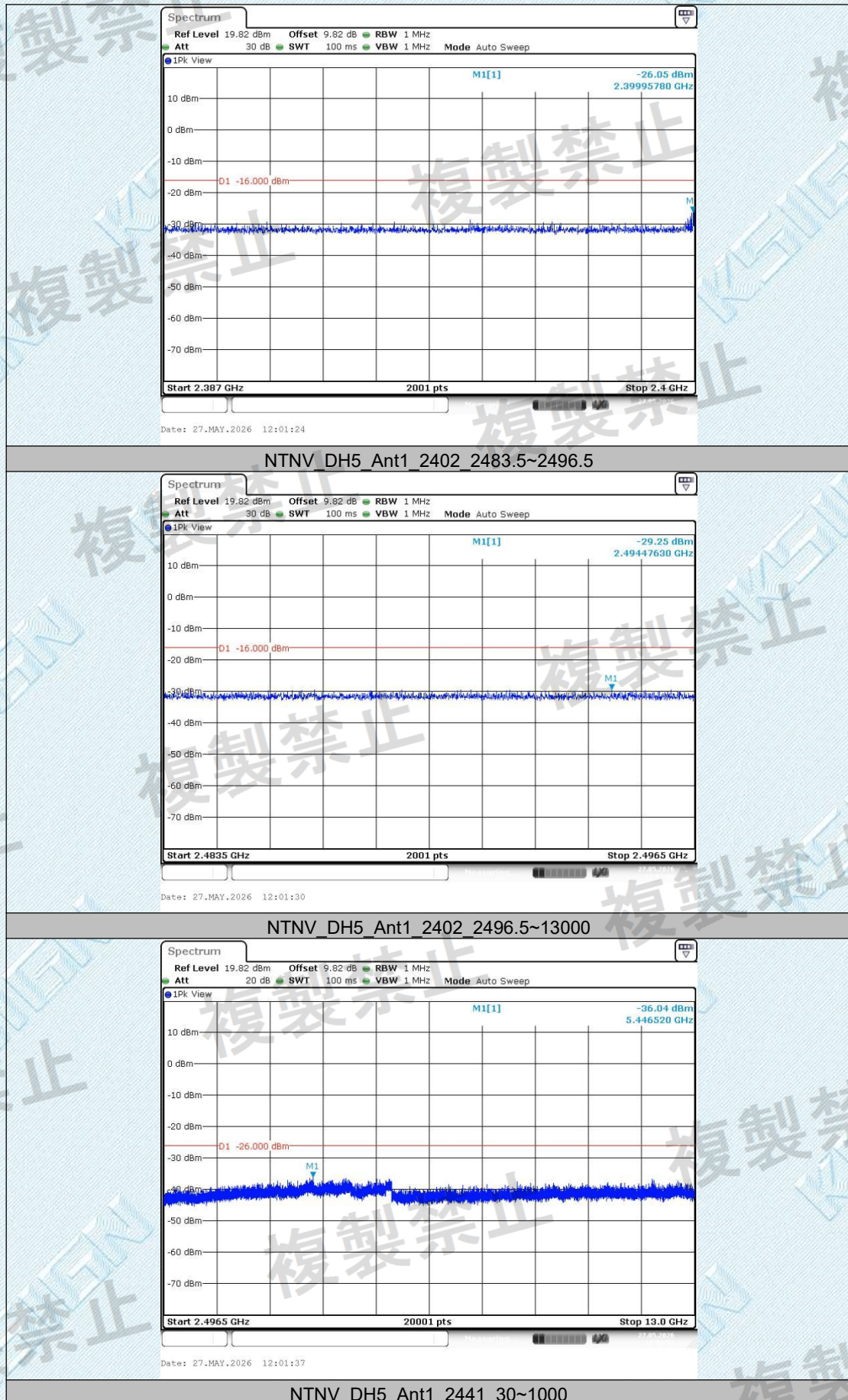
TRF No. RF_R1

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6.4.2. Test Graphs

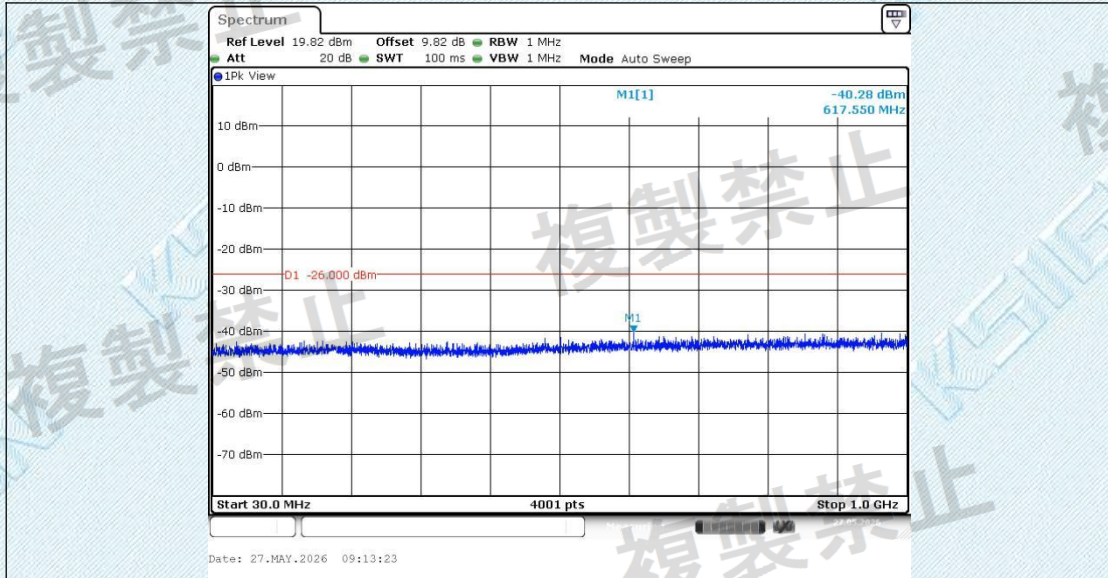




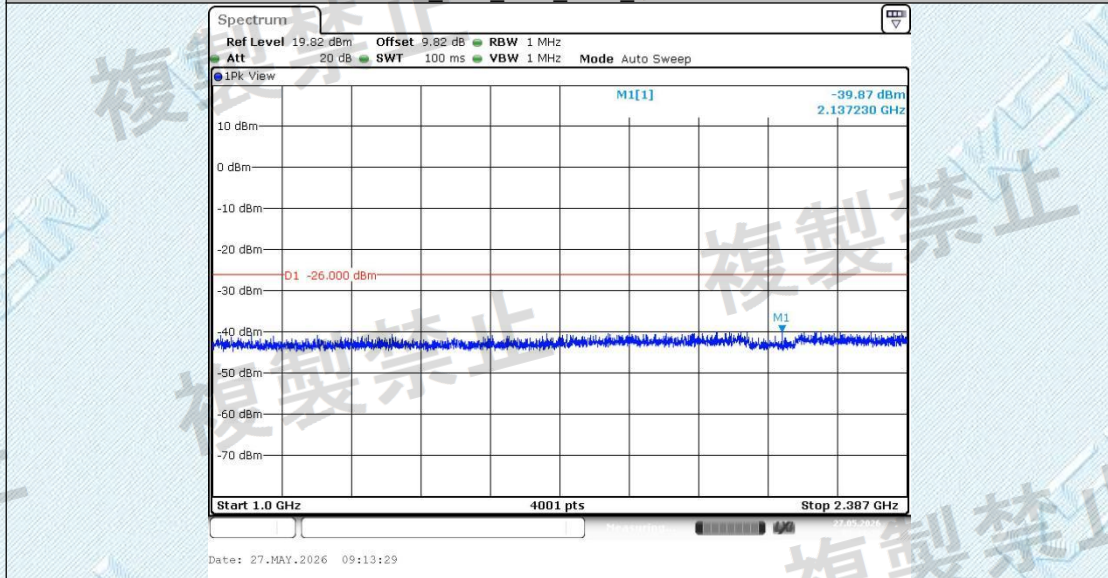
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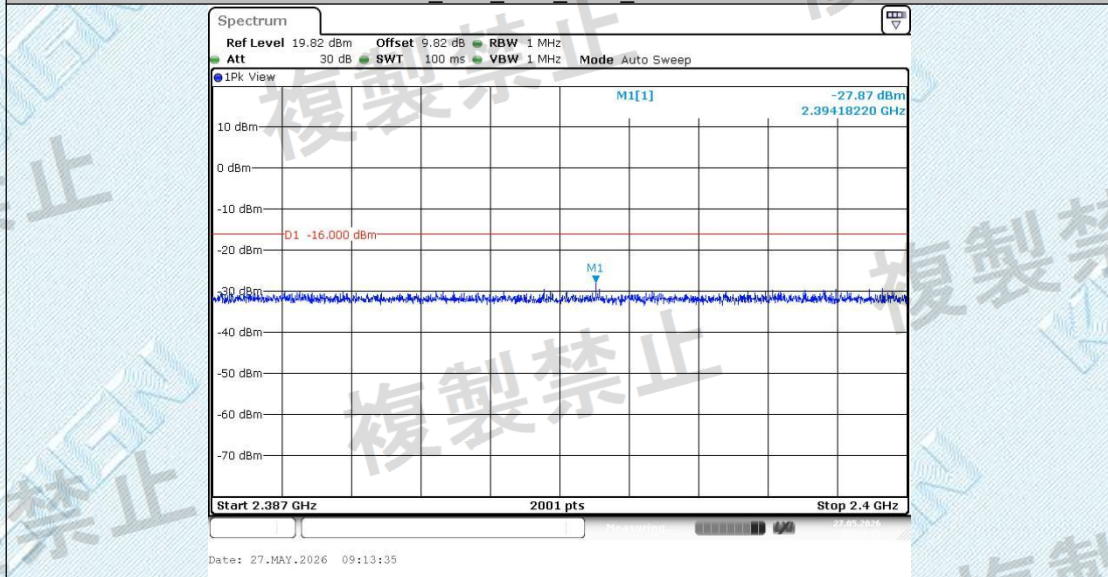
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NTNV_DH5_Ant1_2441_1000~2387



NTNV_DH5_Ant1_2441_2387~2400

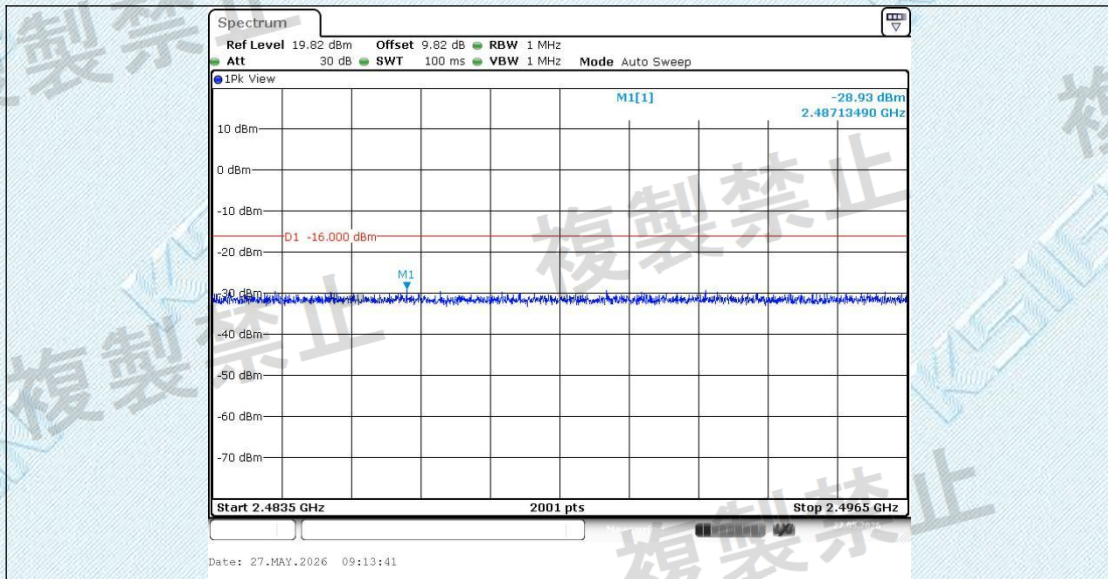


NTNV_DH5_Ant1_2441_2483.5~2496.5

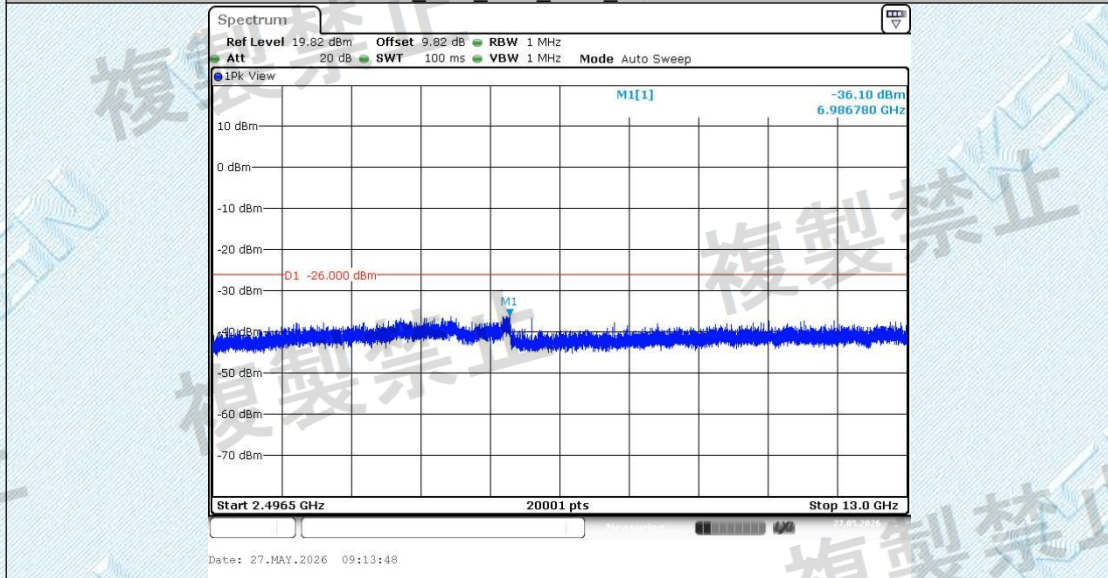
TRF No. RF_R1

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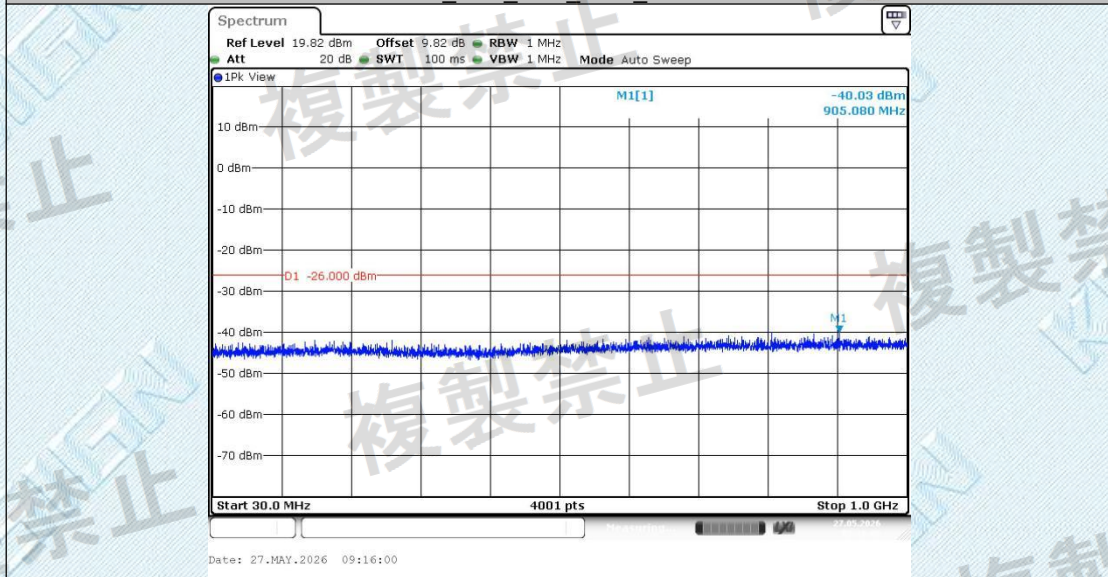
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NTNV_DH5_Ant1_2441_2496.5~13000



NTNV_DH5_Ant1_2480_30~1000

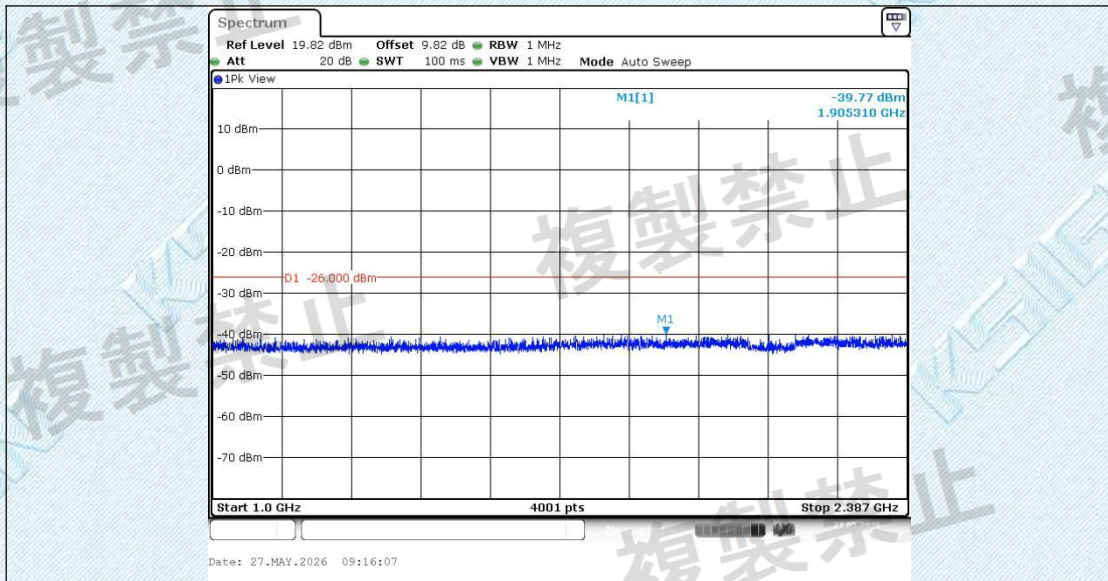


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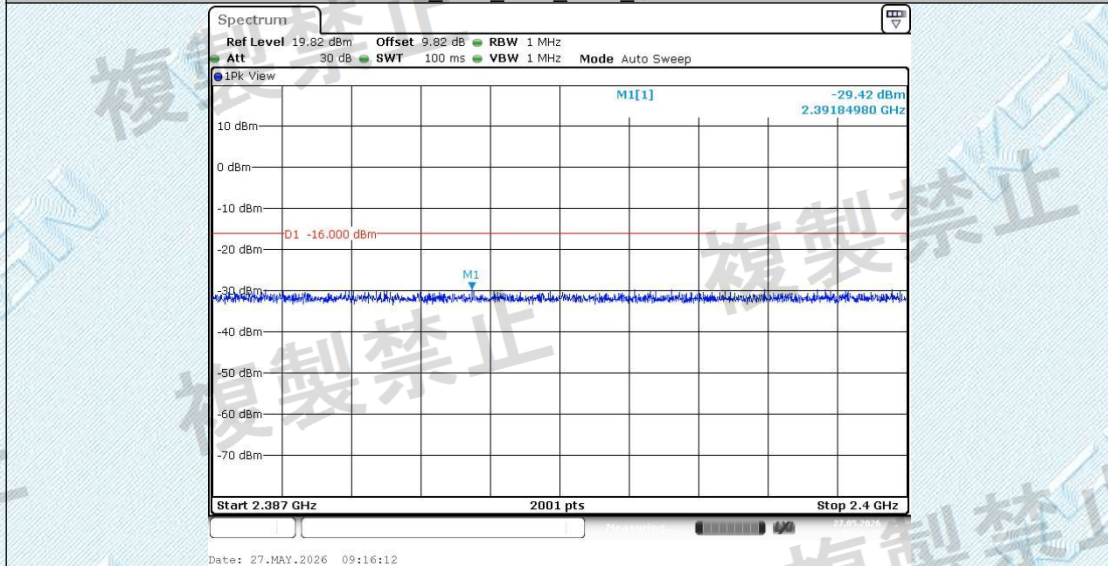
TRF No. RF_R1

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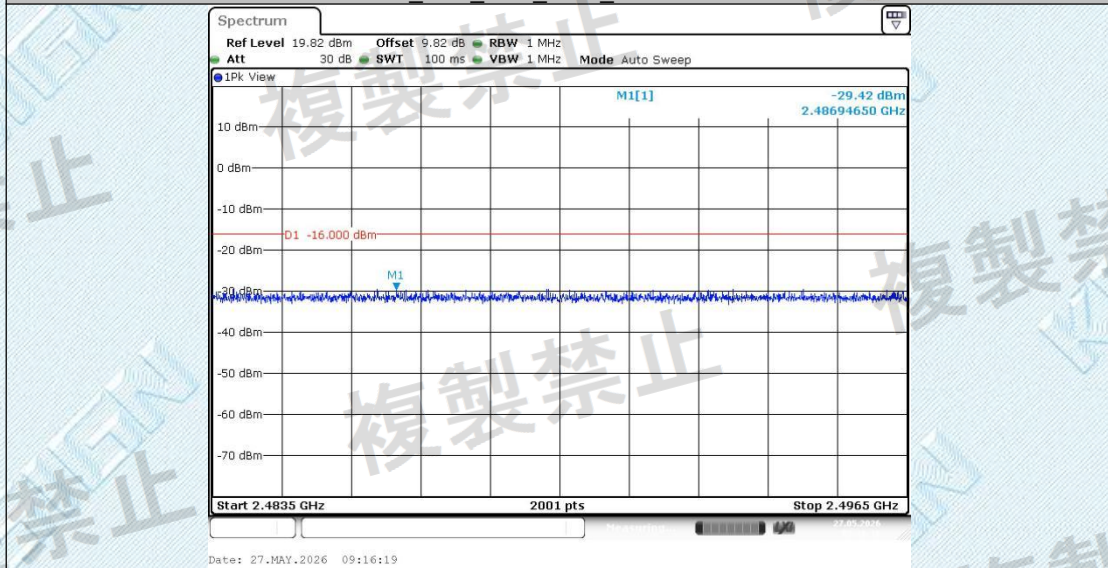
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NTNV_DH5_Ant1_2480_2387~2400



NTNV_DH5_Ant1_2480_2483.5~2496.5

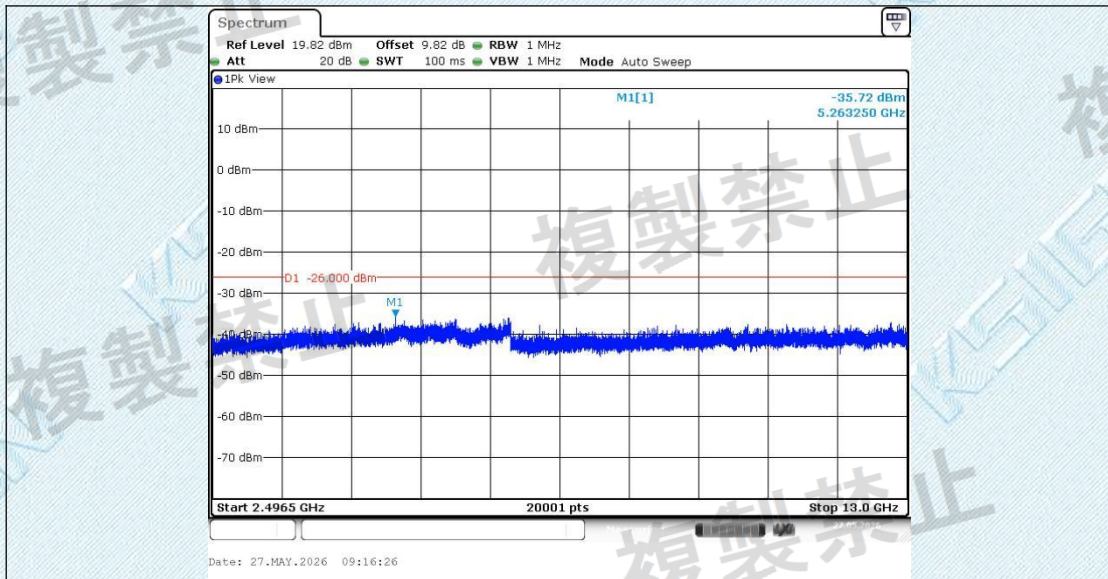


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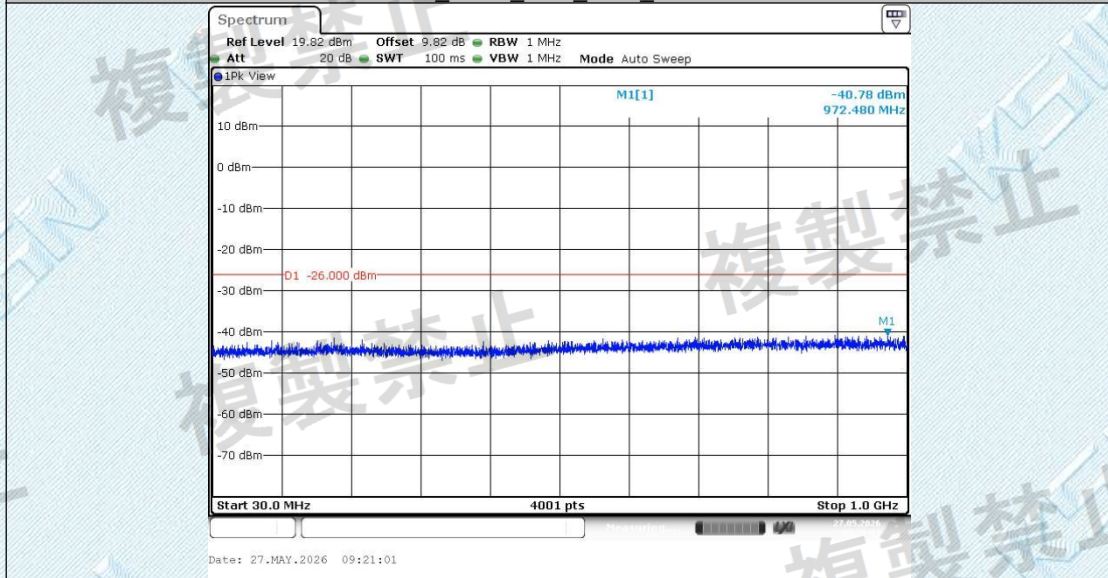
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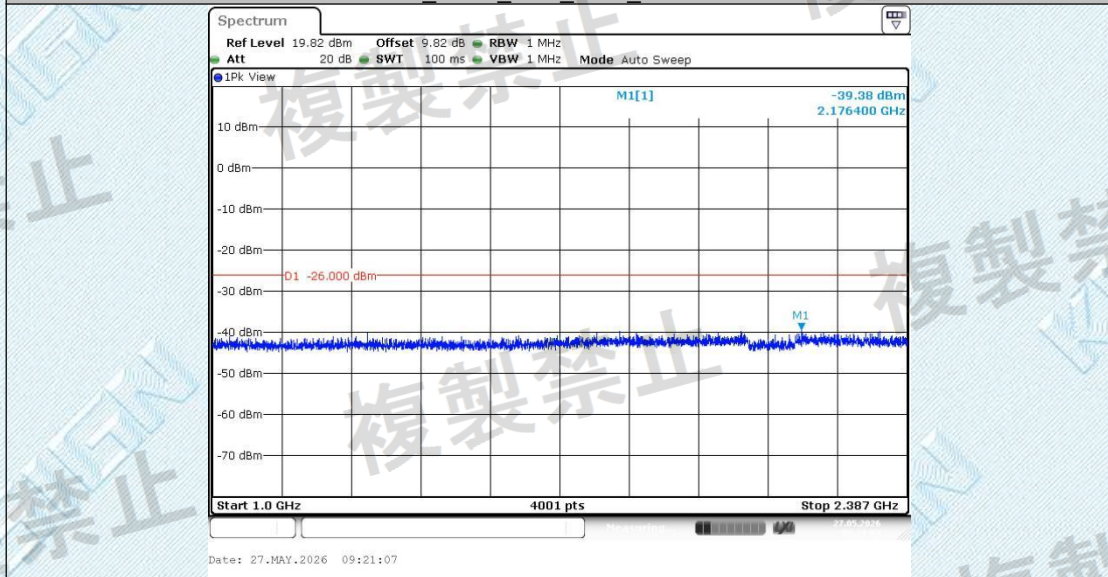
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NTNV_2DH5_Ant1_2402_30~1000



NTNV_2DH5_Ant1_2402_1000~2387

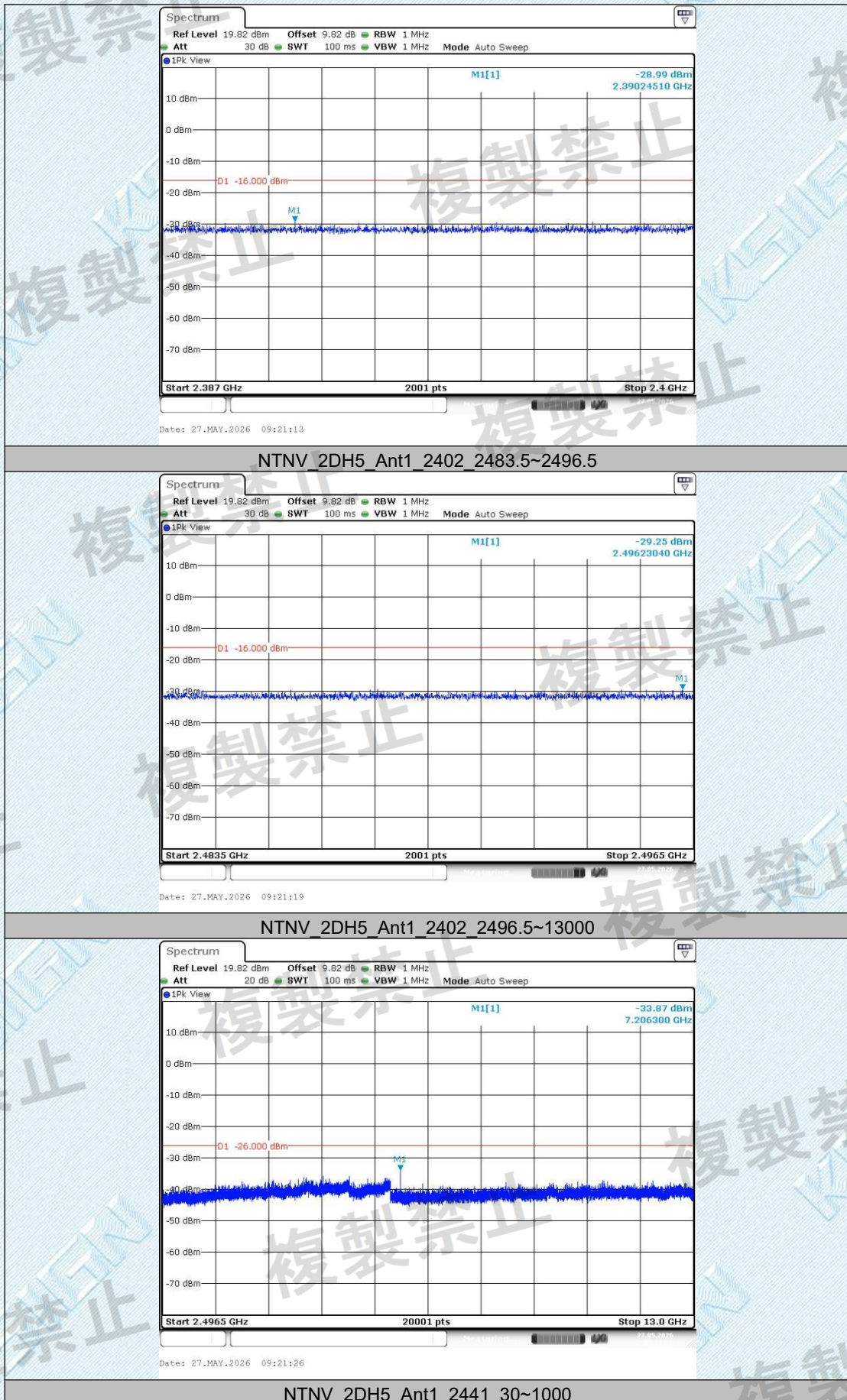


NTNV_2DH5_Ant1_2402_2387~2400

TRF No. RF_R1

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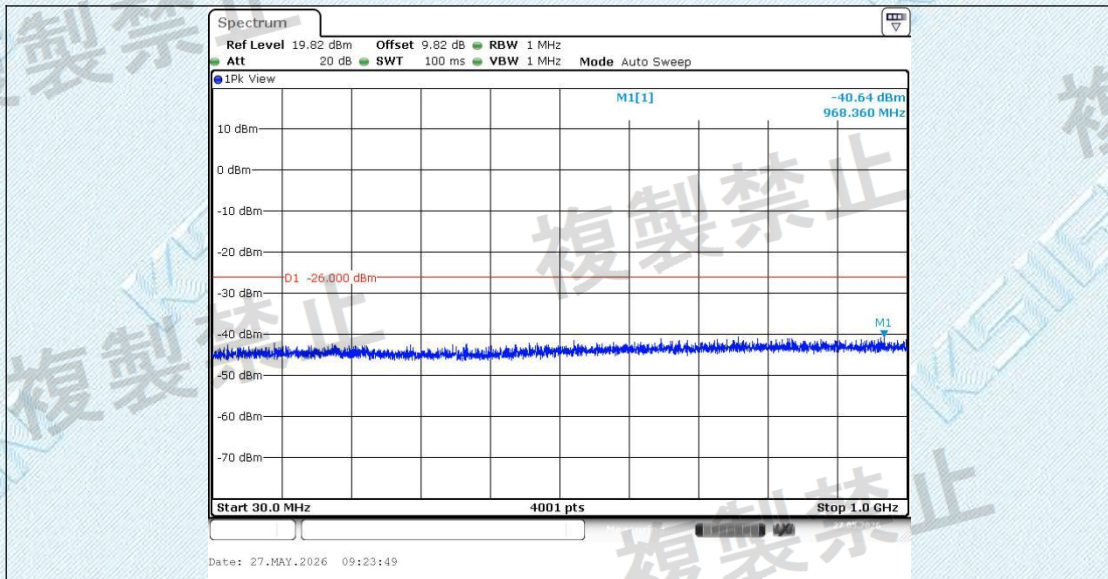
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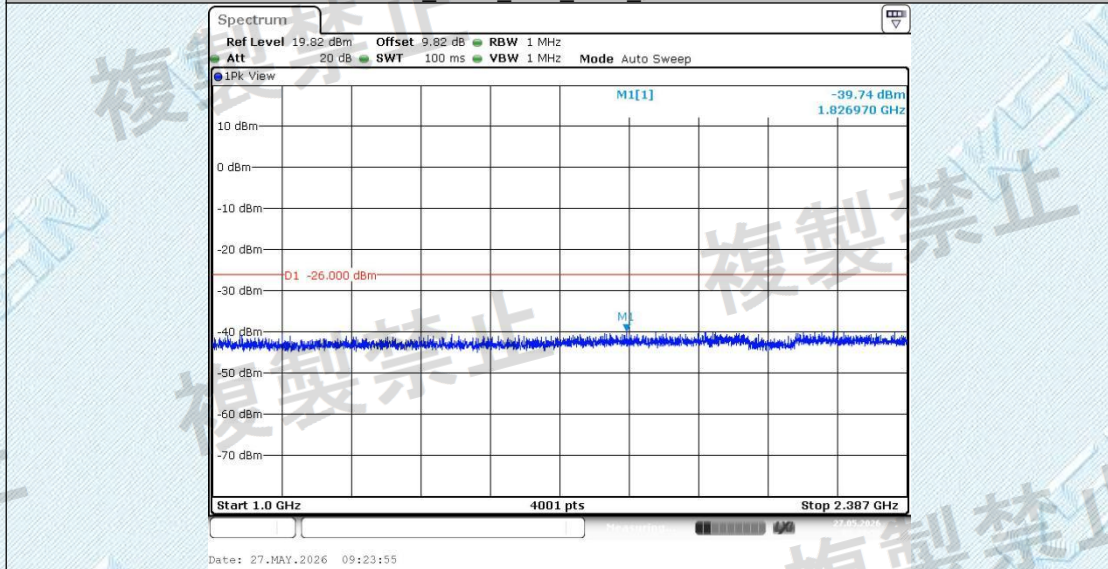
TRF No. RF_R1

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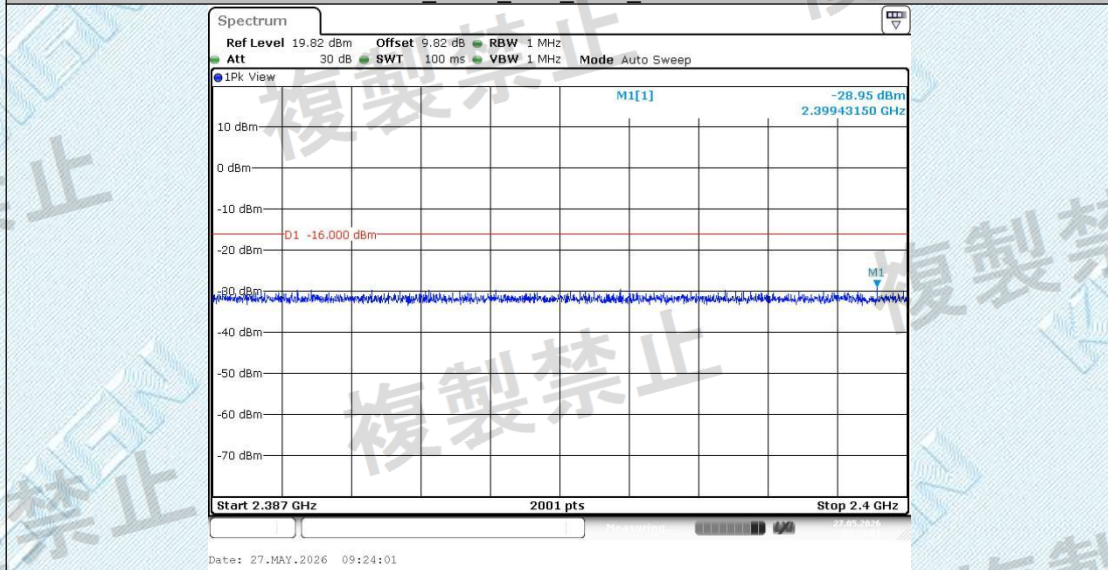
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NTNV_2DH5_Ant1_2441_1000~2387



NTNV_2DH5_Ant1_2441_2387~2400

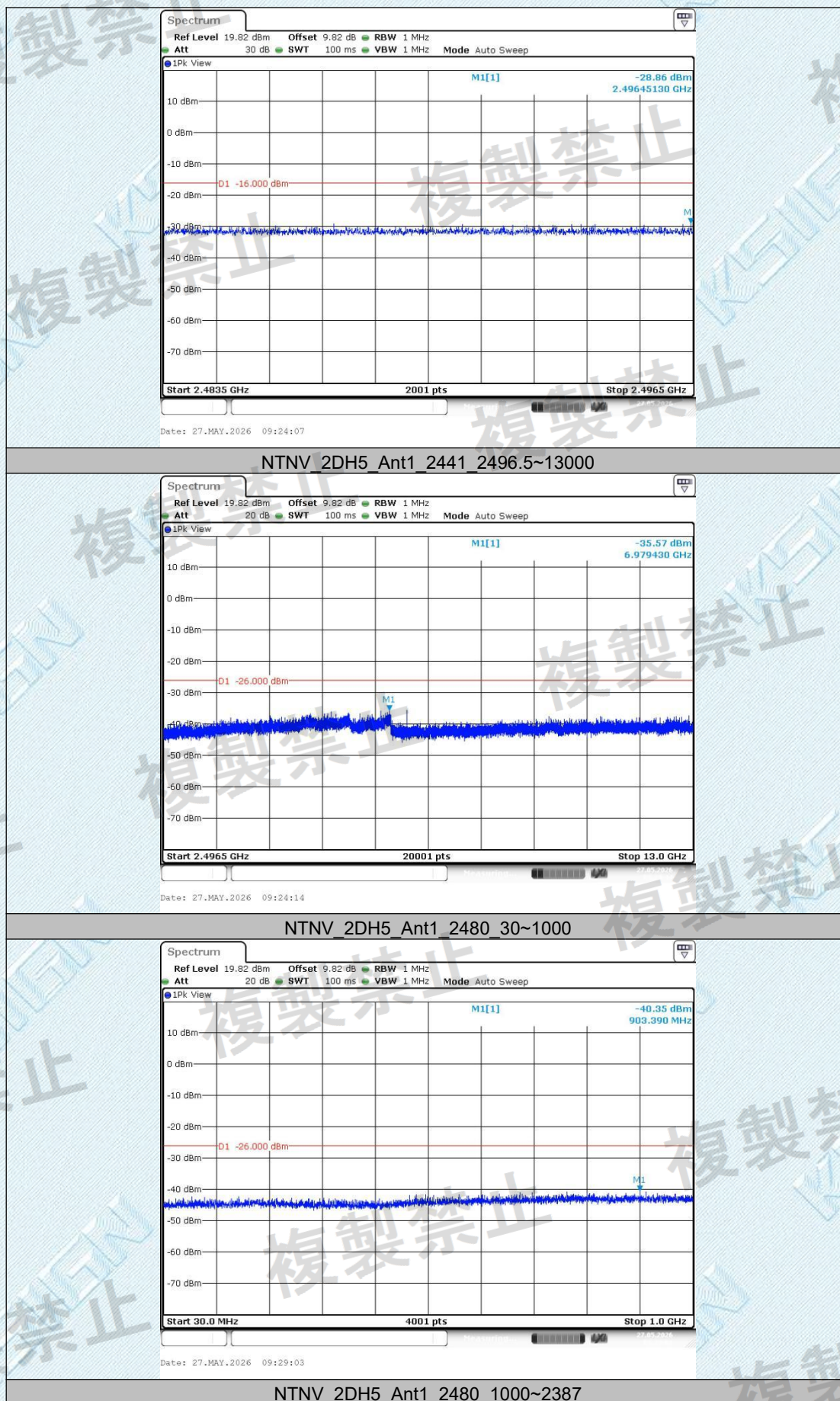


NTNV_2DH5_Ant1_2441_2483.5~2496.5

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Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

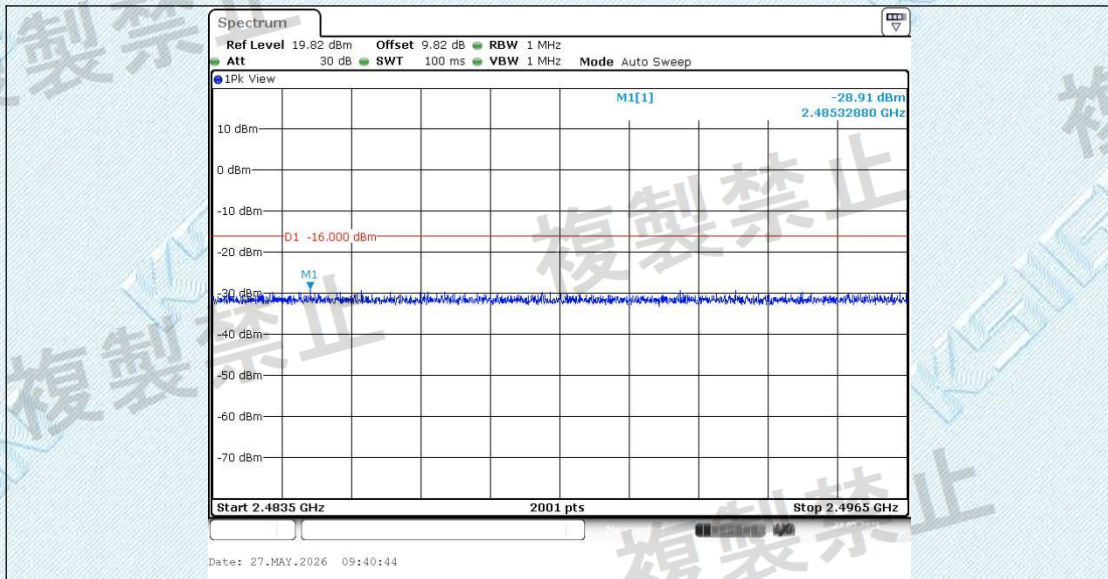
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



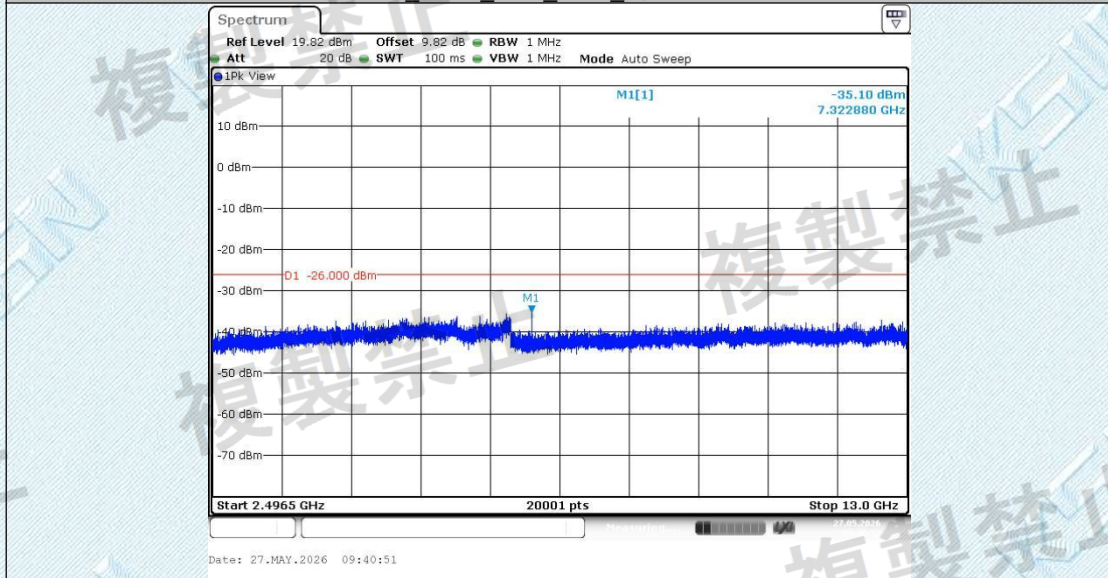
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

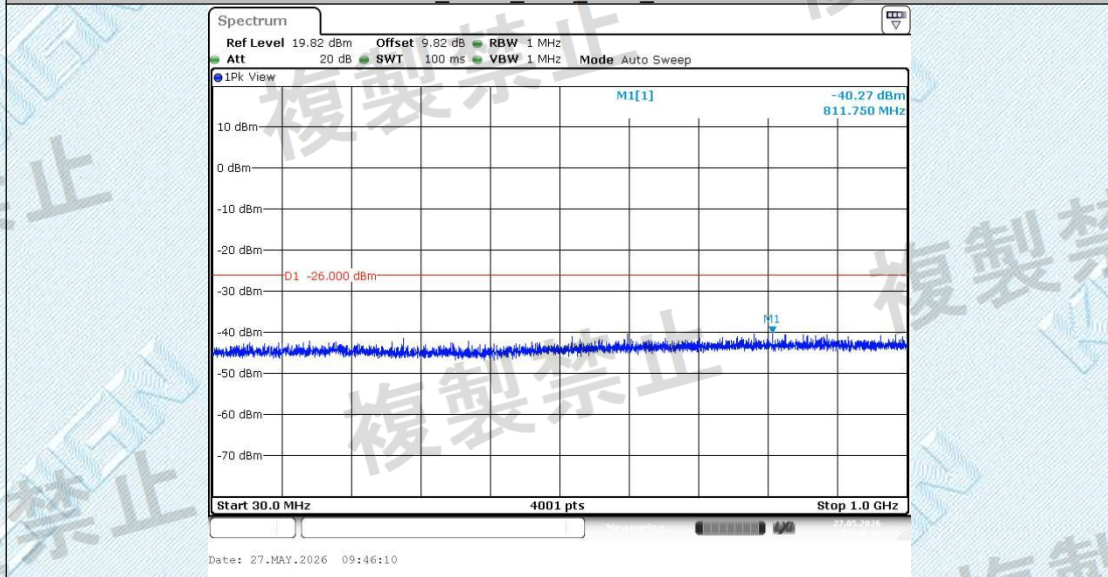
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_3DH5_Ant1_2441_2496.5~13000



NTNV_3DH5_Ant1_2480_30~1000

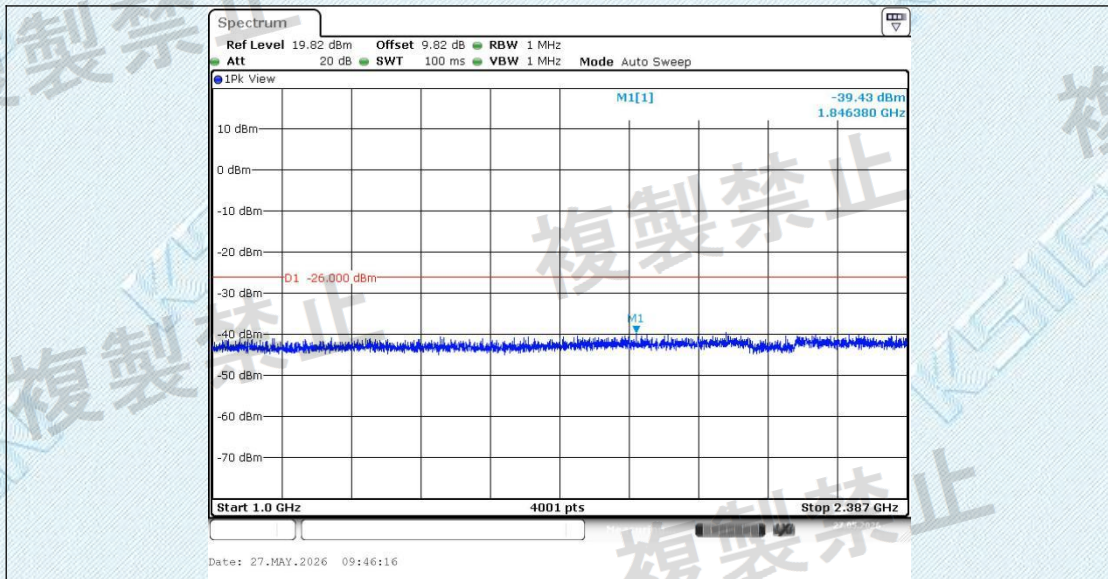


NTNV_3DH5_Ant1_2480_1000~2387

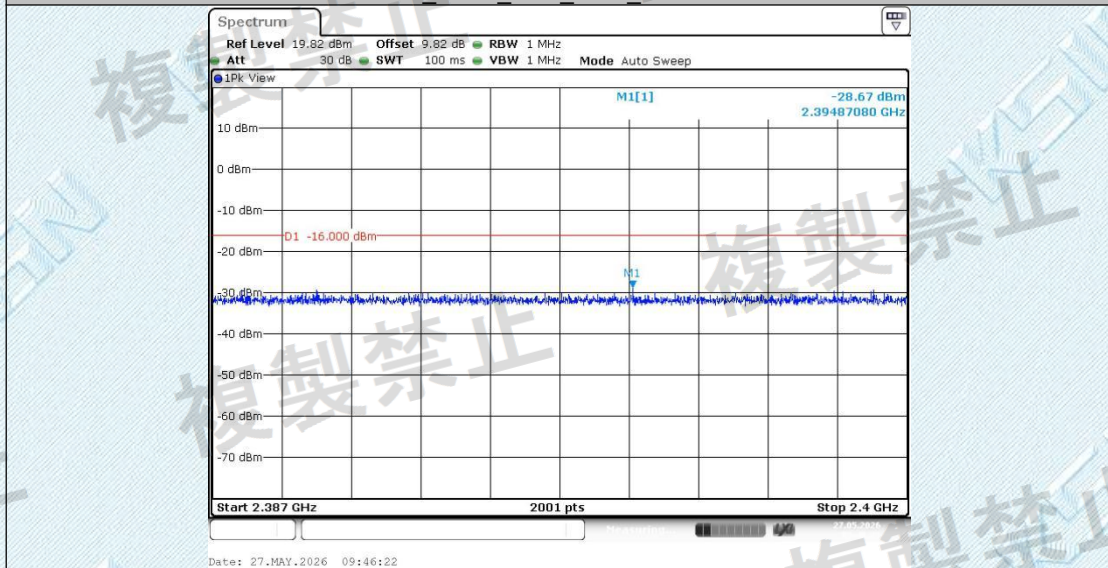
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

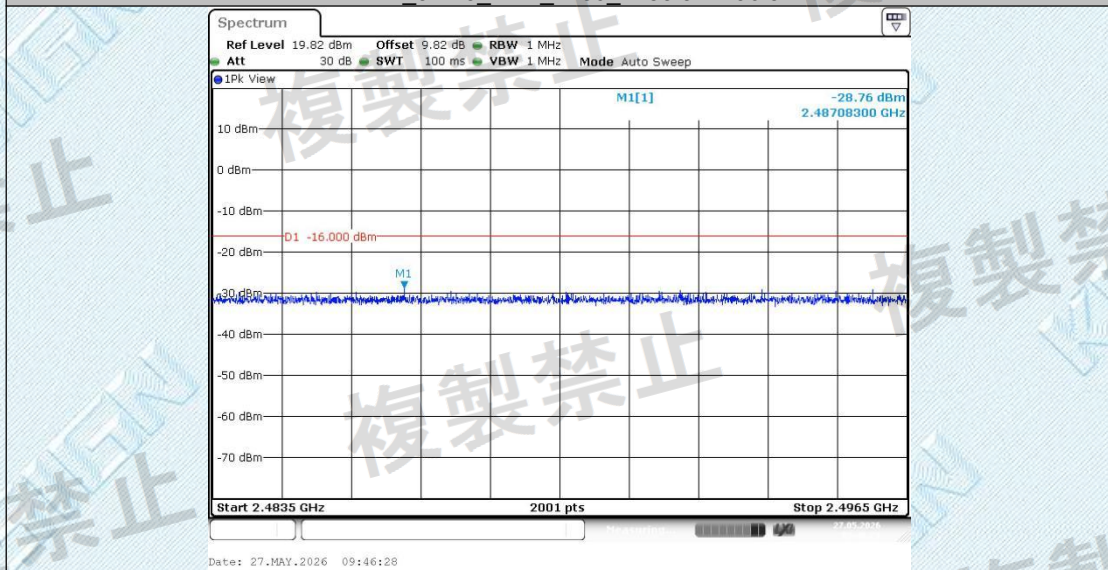
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NTNV_3DH5_Ant1_2480_2387~2400



NTNV_3DH5_Ant1_2480_2483.5~2496.5

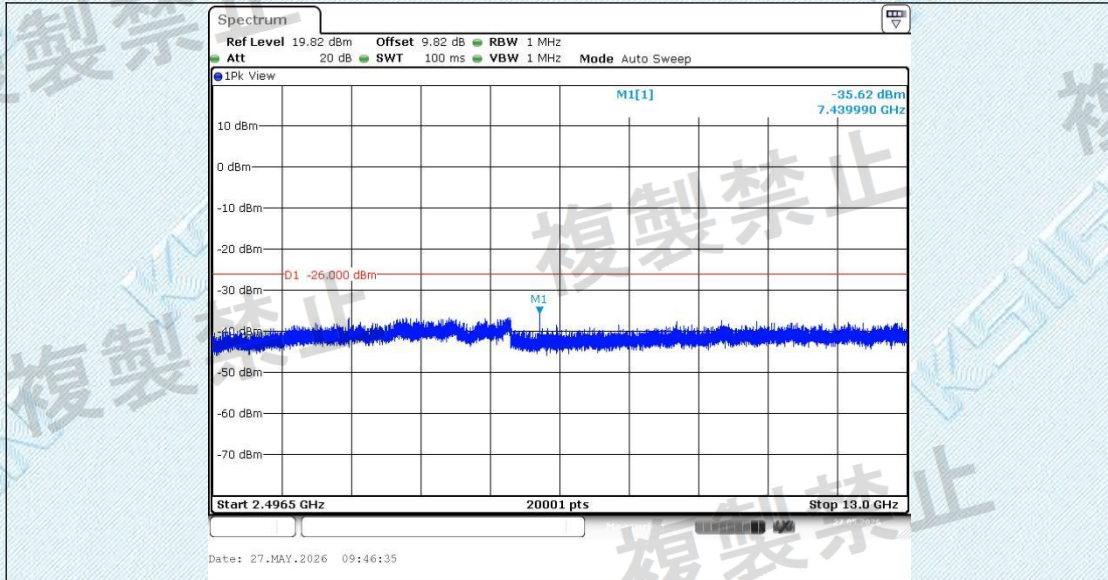


NTNV_3DH5_Ant1_2480_2496.5~13000

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.5. Appendix F: Spurious Emission of RX

6.5.1. Test Result

Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	30~1000	788.40	-70.53	≤-54	0.09	≤4	PASS
				1000~12500	6974.25	-56.00	≤-47	2.51	≤20	See table below
			2441	30~1000	823.31	-70.92	≤-54	0.08	≤4	PASS
				1000~12500	6811.53	-54.99	≤-47	3.17	≤20	See table below
			2480	30~1000	607.59	-70.92	≤-54	0.08	≤4	PASS
				1000~12500	6979.43	-55.40	≤-47	2.88	≤20	See table below
	2DH5	Ant1	2402	30~1000	799.07	-70.42	≤-54	0.09	≤4	PASS
				1000~12500	6977.7	-55.79	≤-47	2.64	≤20	See table below
			2441	30~1000	685.63	-70.52	≤-54	0.09	≤4	PASS
				1000~12500	6986.33	-55.91	≤-47	2.56	≤20	See table below
			2480	30~1000	853.36	-70.70	≤-54	0.09	≤4	PASS
				1000~12500	2409.9	-55.37	≤-47	2.90	≤20	See table below
	3DH5	Ant1	2402	30~1000	969.22	-70.78	≤-54	0.08	≤4	PASS
				1000~12500	2414.5	-52.04	≤-47	6.25	≤20	See table below
			2441	30~1000	860.15	-71.29	≤-54	0.07	≤4	PASS
				1000~12500	6970.8	-55.47	≤-47	2.84	≤20	See table below
			2480	30~1000	907.65	-71.29	≤-54	0.07	≤4	PASS
				1000~12500	2416.23	-53.13	≤-47	4.86	≤20	See table below

6.5.2. Test Result_Step2

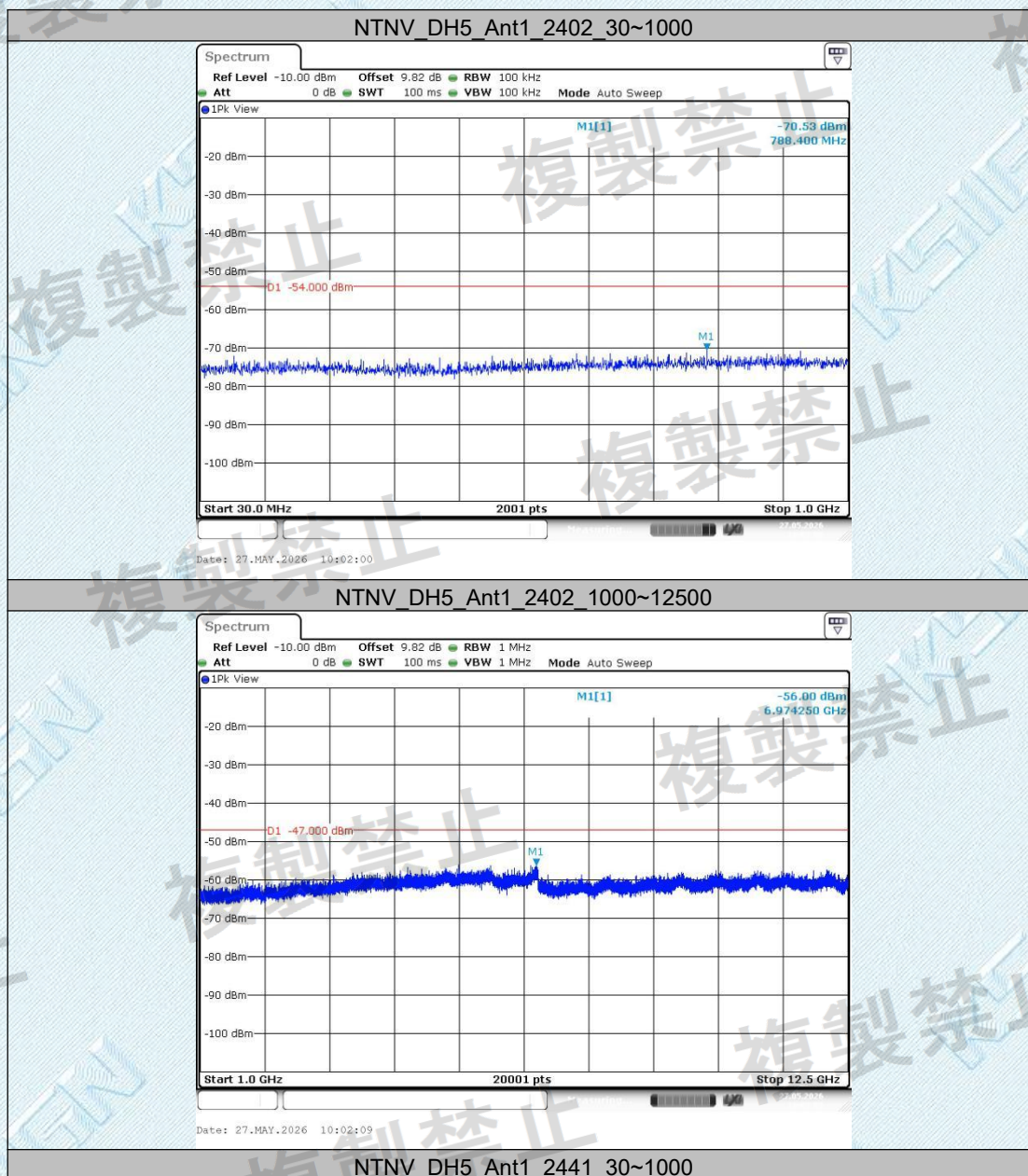
Test Condition	Test Mode	Antenna	Freq(M Hz)	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	DH5	Ant1	2402	6981.21	-62.42	≤-47	0.57	≤20	PASS
			2441	6818.46	-62.03	≤-47	0.63	≤20	PASS
			2480	6996.54	-62.37	≤-47	0.58	≤20	PASS
	2DH5	Ant1	2402	6931.65	-62.39	≤-47	0.58	≤20	PASS
			2441	6991.35	-62.22	≤-47	0.60	≤20	PASS
			2480	2416.25	-57.48	≤-47	1.79	≤20	PASS
	3DH5	Ant1	2402	2413.40	-61.79	≤-47	0.66	≤20	PASS
			2441	6976.29	-62.28	≤-47	0.59	≤20	PASS
			2480	2415.12	-59.27	≤-47	1.18	≤20	PASS

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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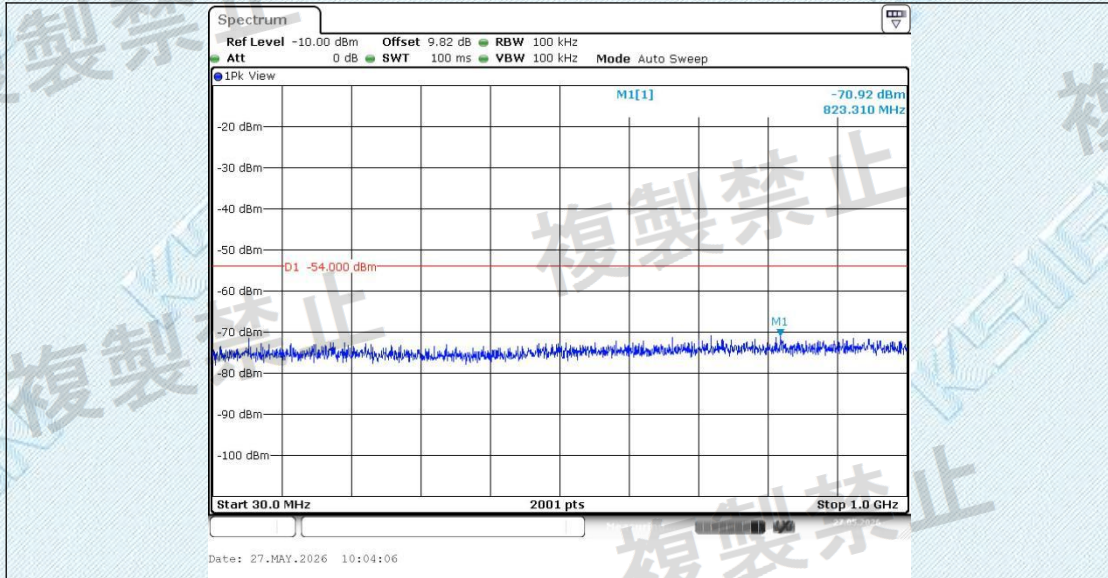
6.5.3. Test Graphs



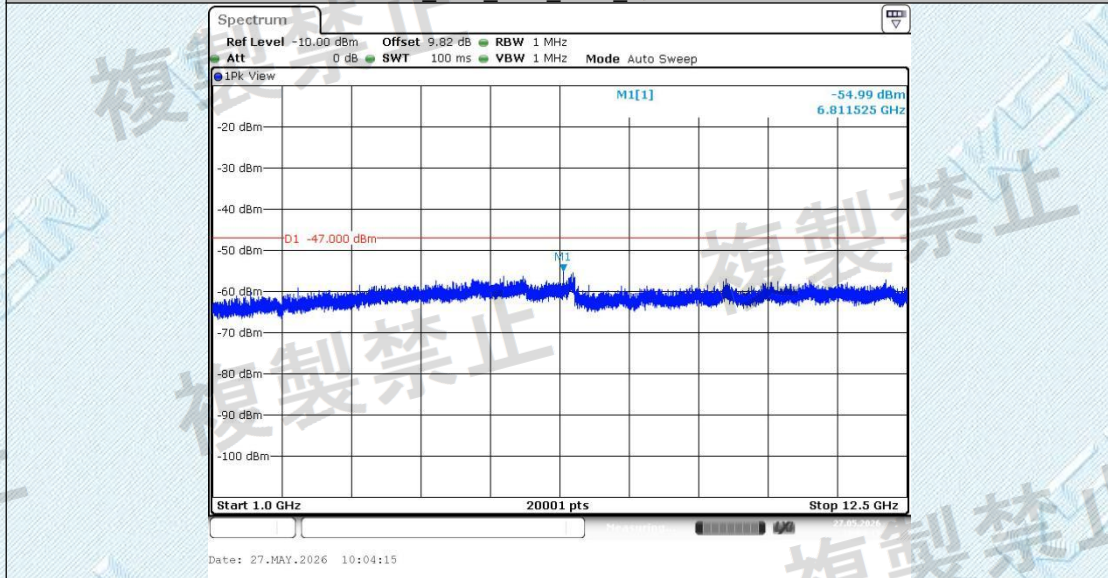
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

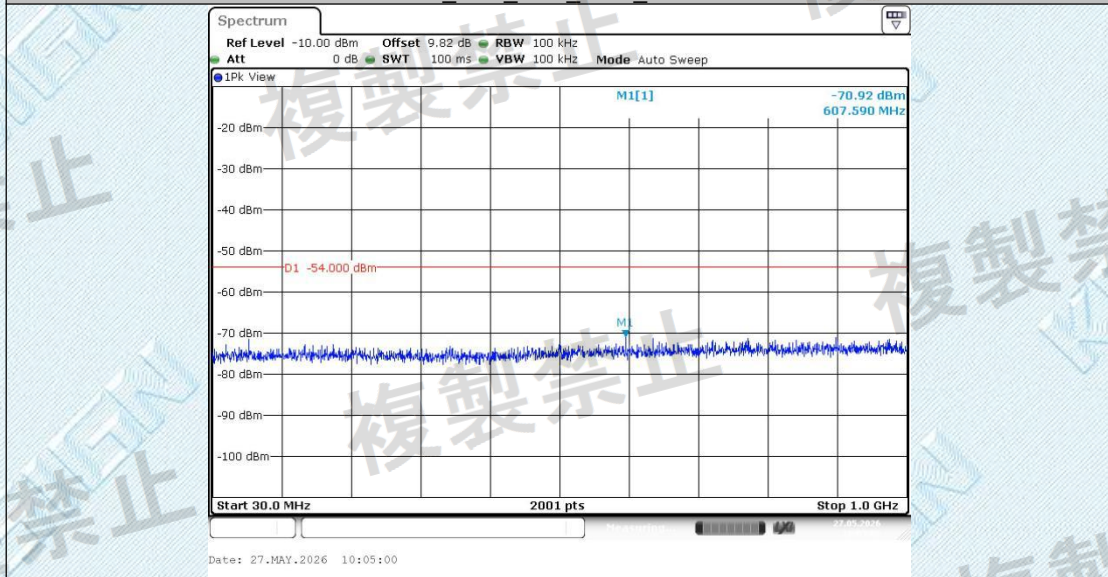
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_DH5_Ant1_2441_1000~12500



NTNV_DH5_Ant1_2480_30~1000

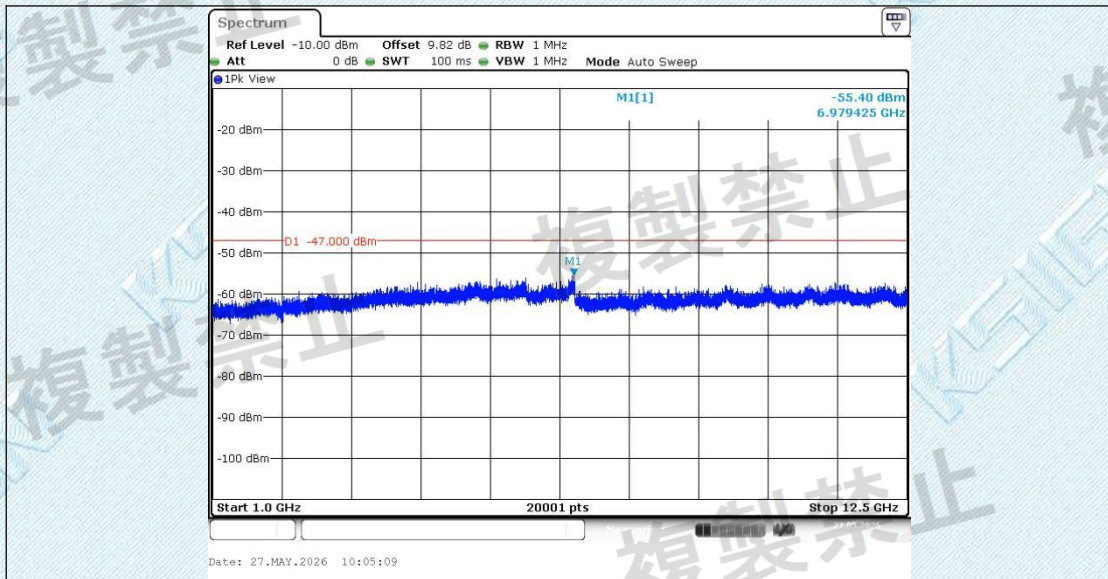


NTNV_DH5_Ant1_2480_1000~12500

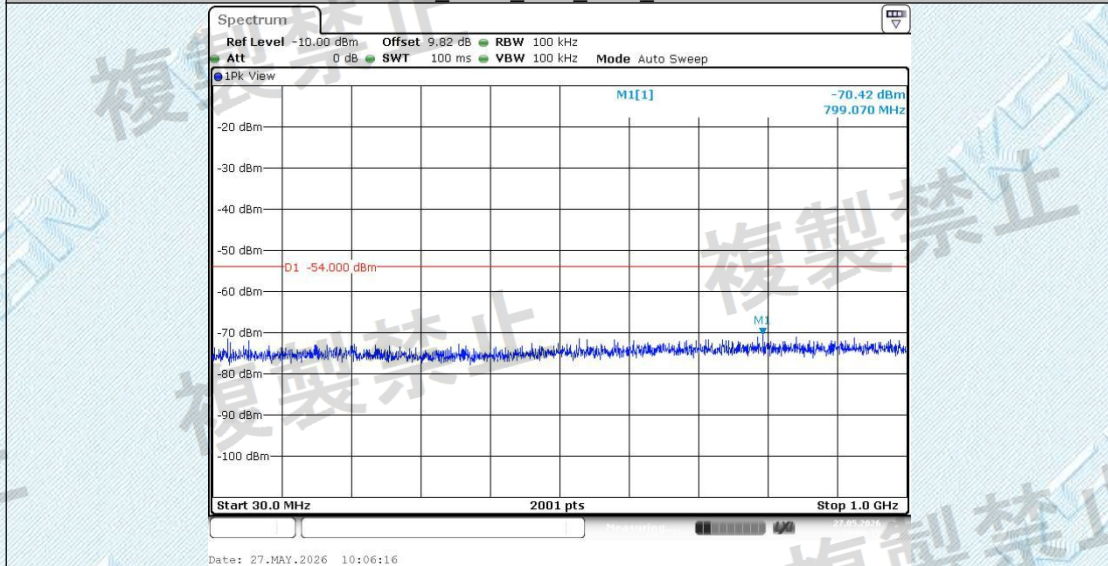
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

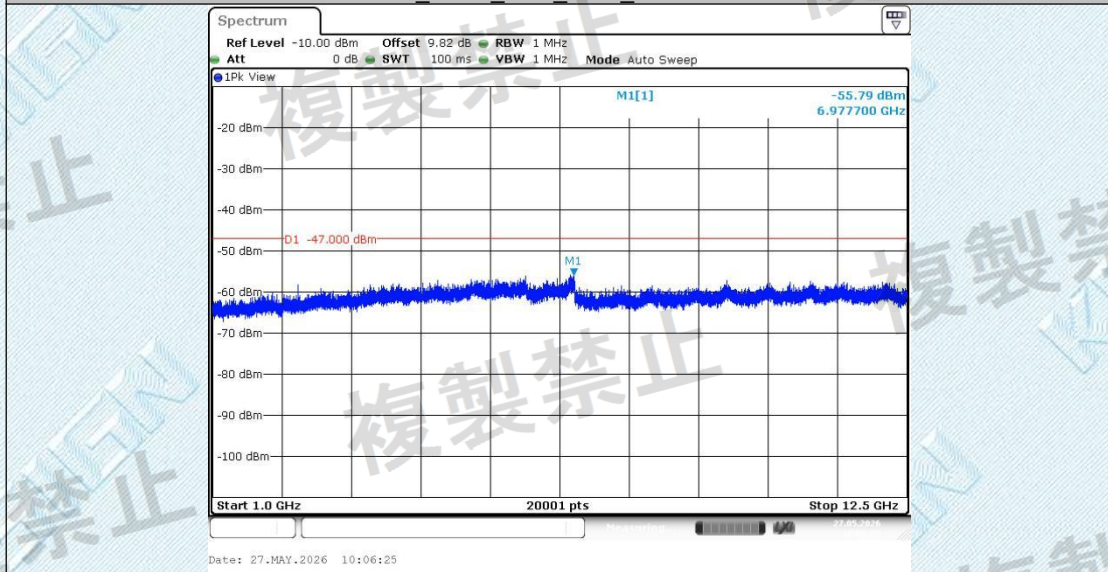
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_2DH5_Ant1_2402_30~1000



NTNV_2DH5_Ant1_2402_1000~12500

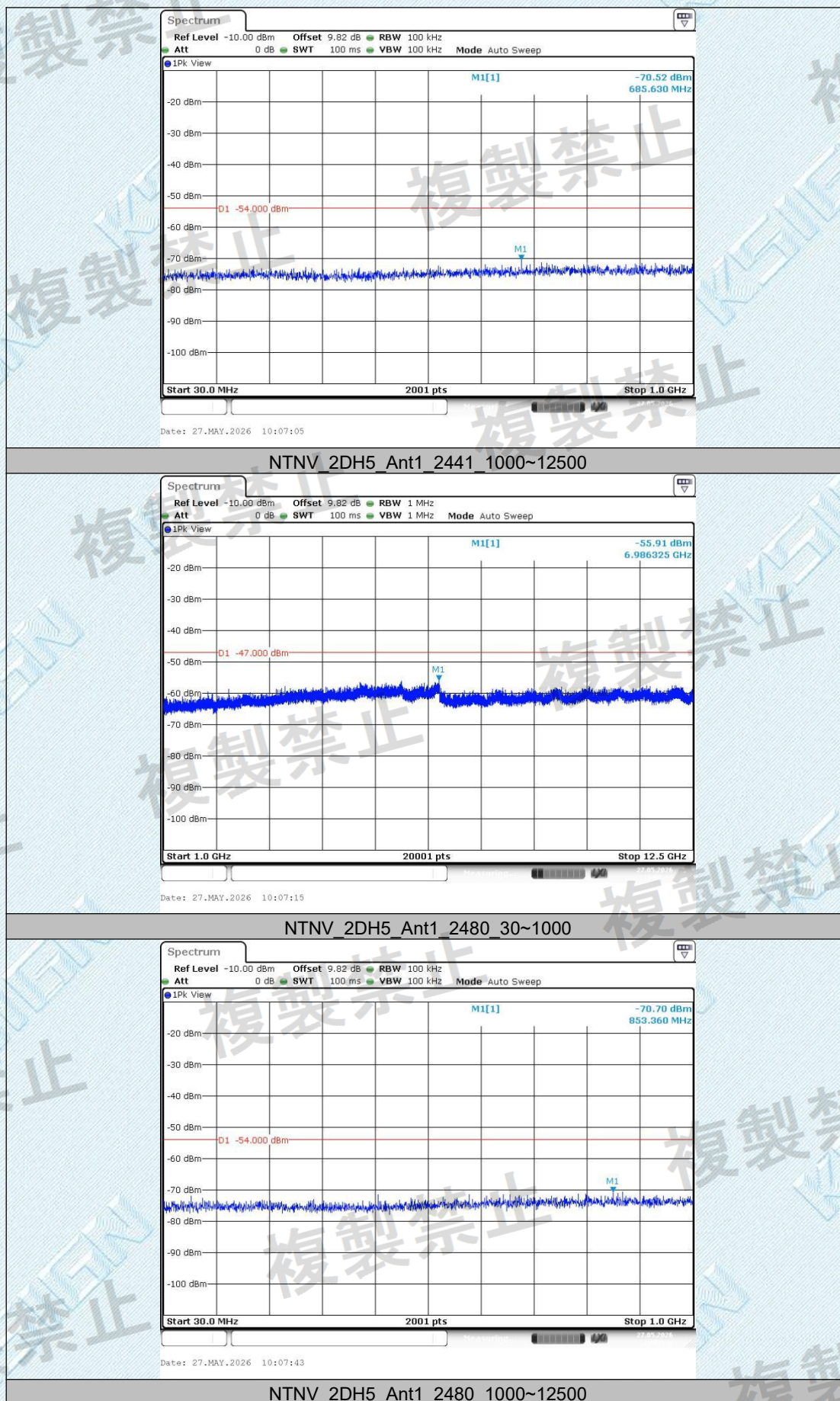


NTNV_2DH5_Ant1_2441_30~1000

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

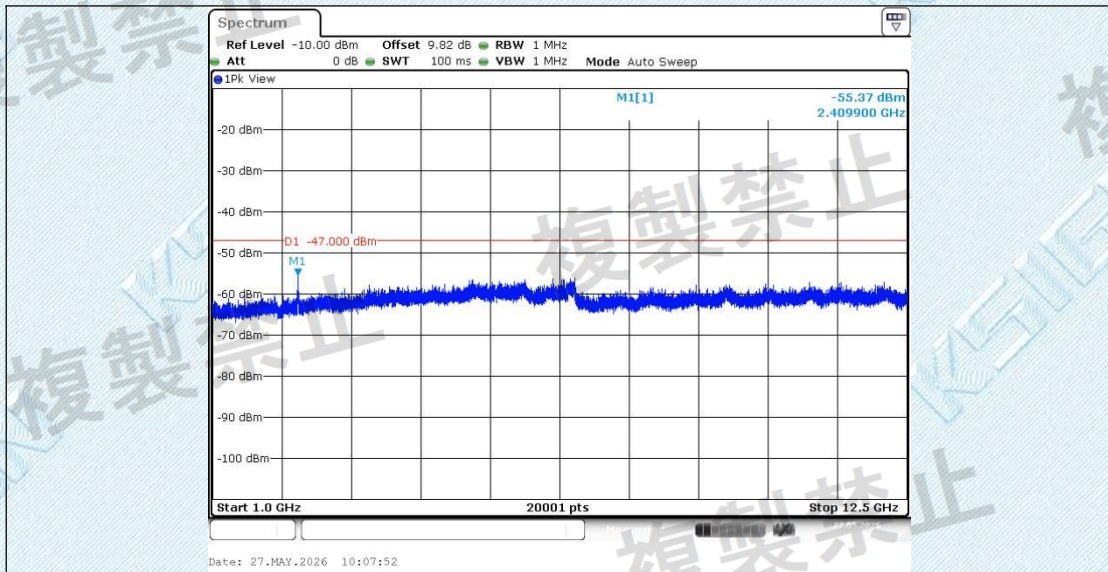
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



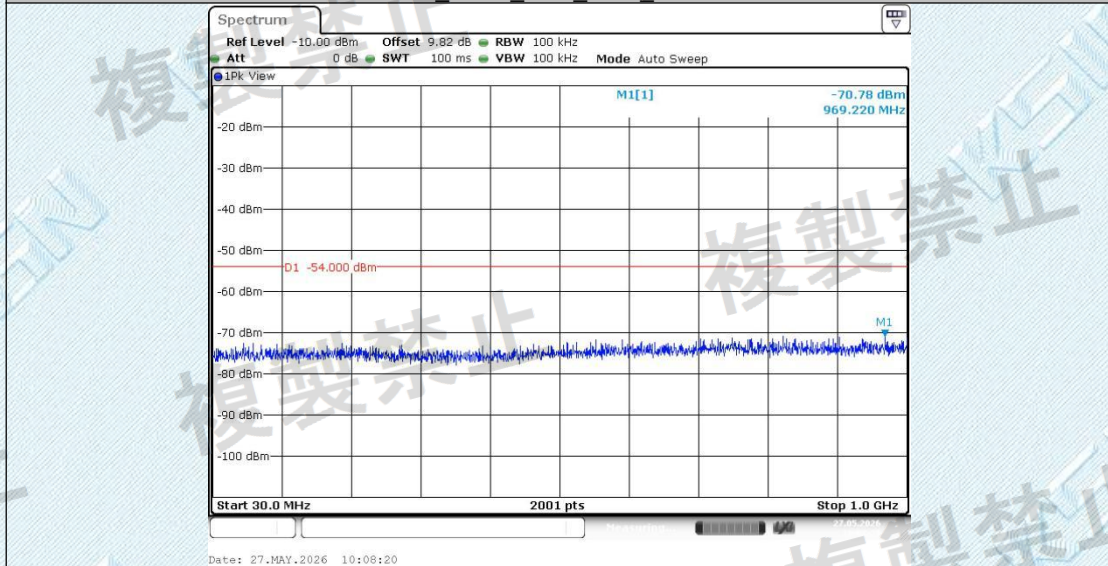
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

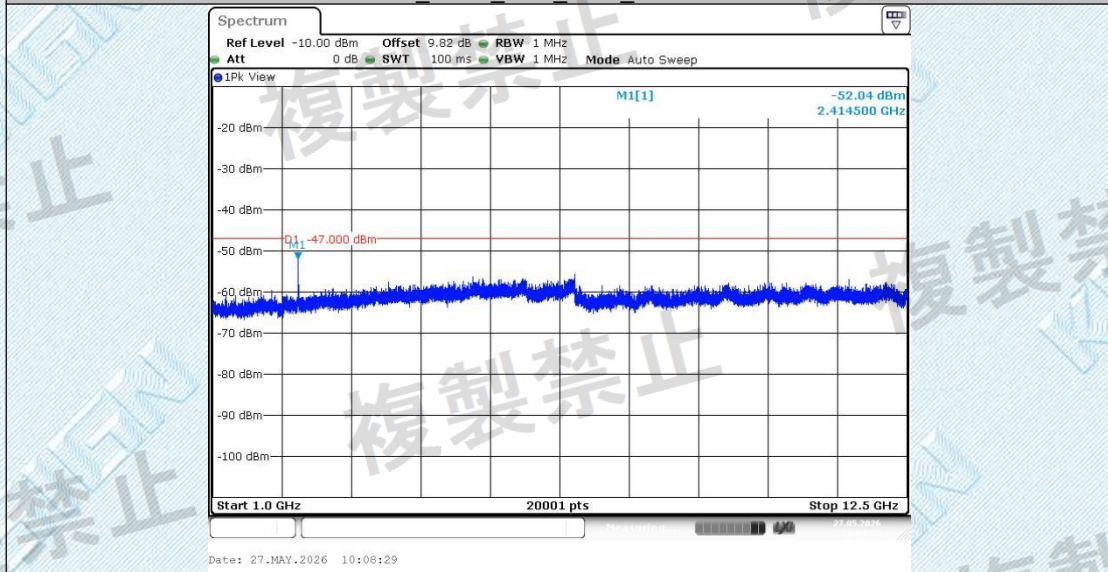
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_3DH5_Ant1_2402_30~1000



NTNV_3DH5_Ant1_2402_1000~12500

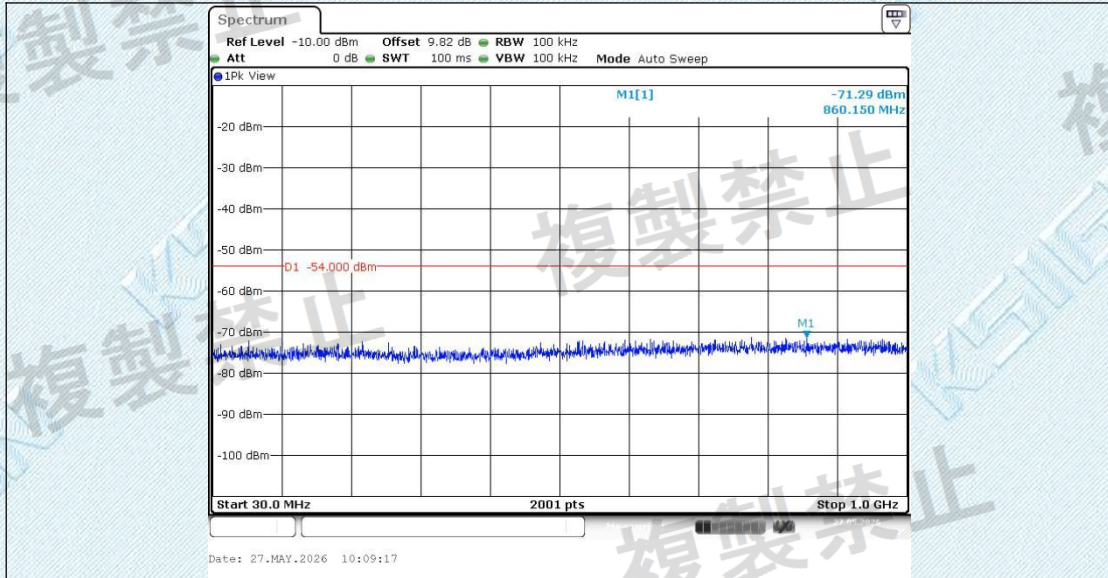


NTNV_3DH5_Ant1_2441_30~1000

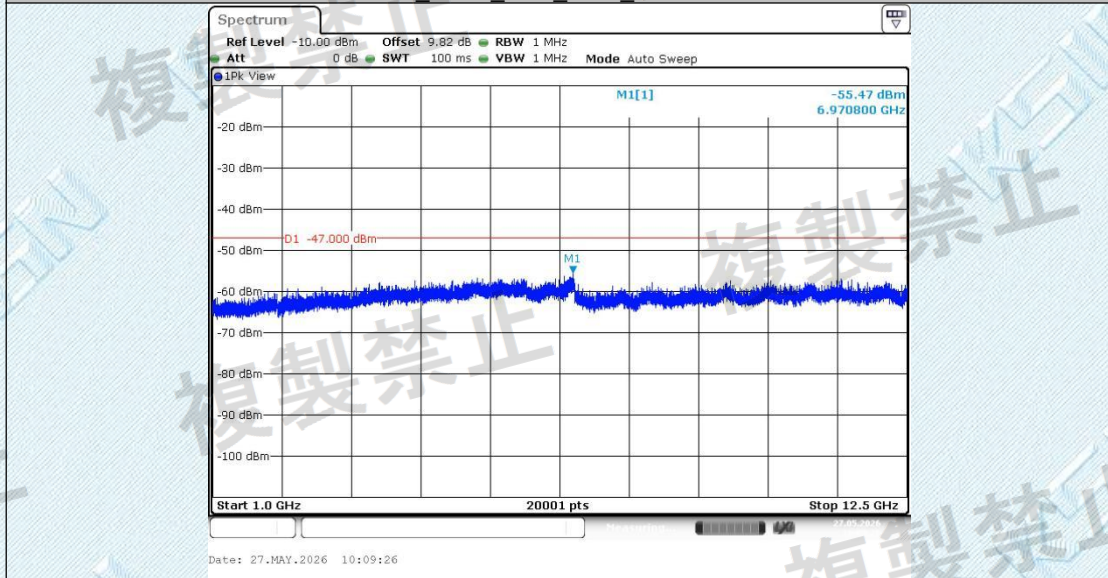
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

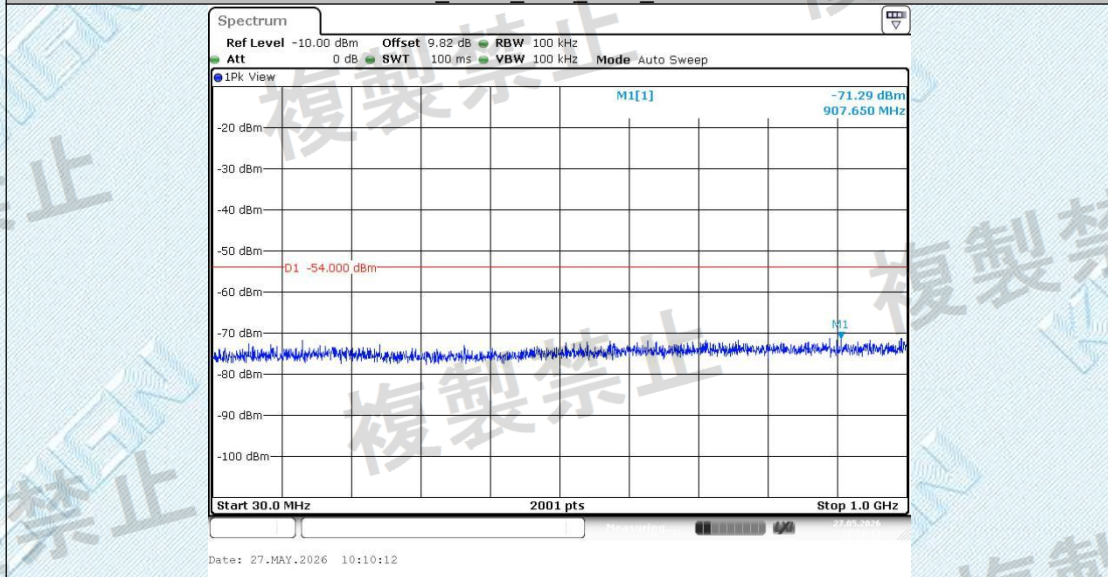
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_3DH5_Ant1_2441_1000~12500



NTNV_3DH5_Ant1_2480_30~1000

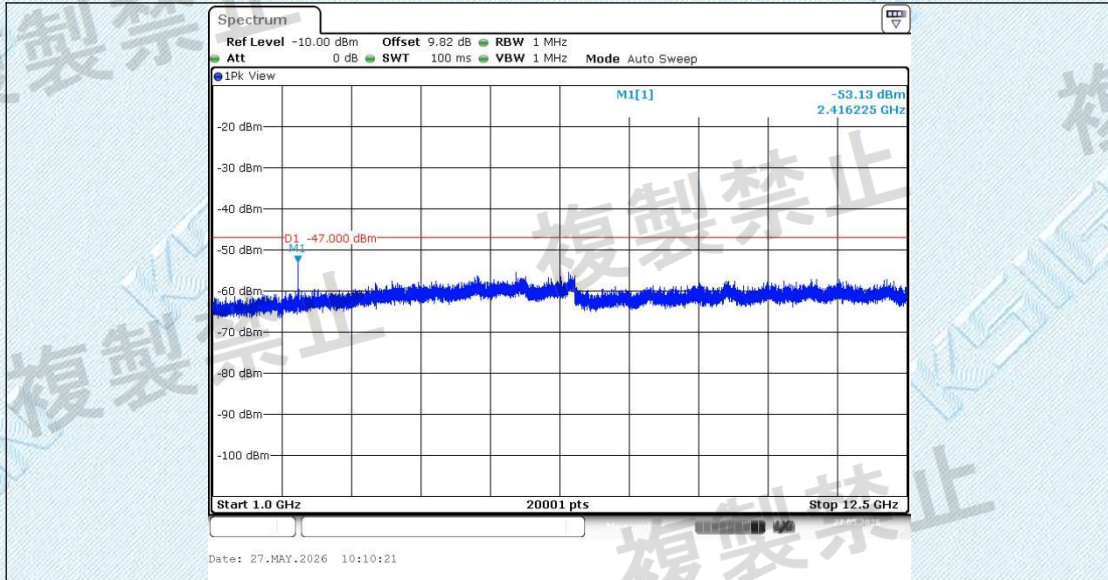


NTNV_3DH5_Ant1_2480_1000~12500

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

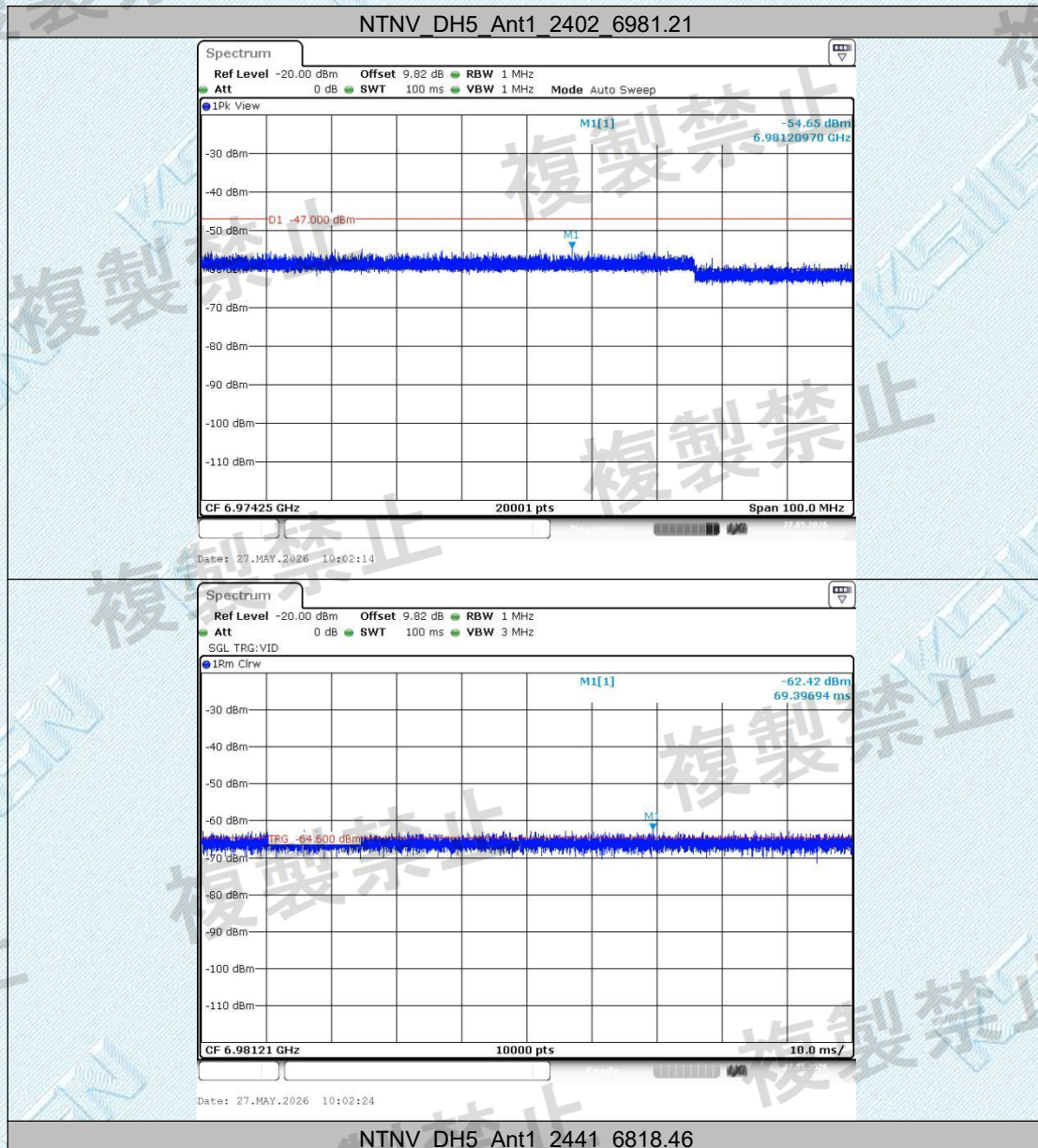


TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com

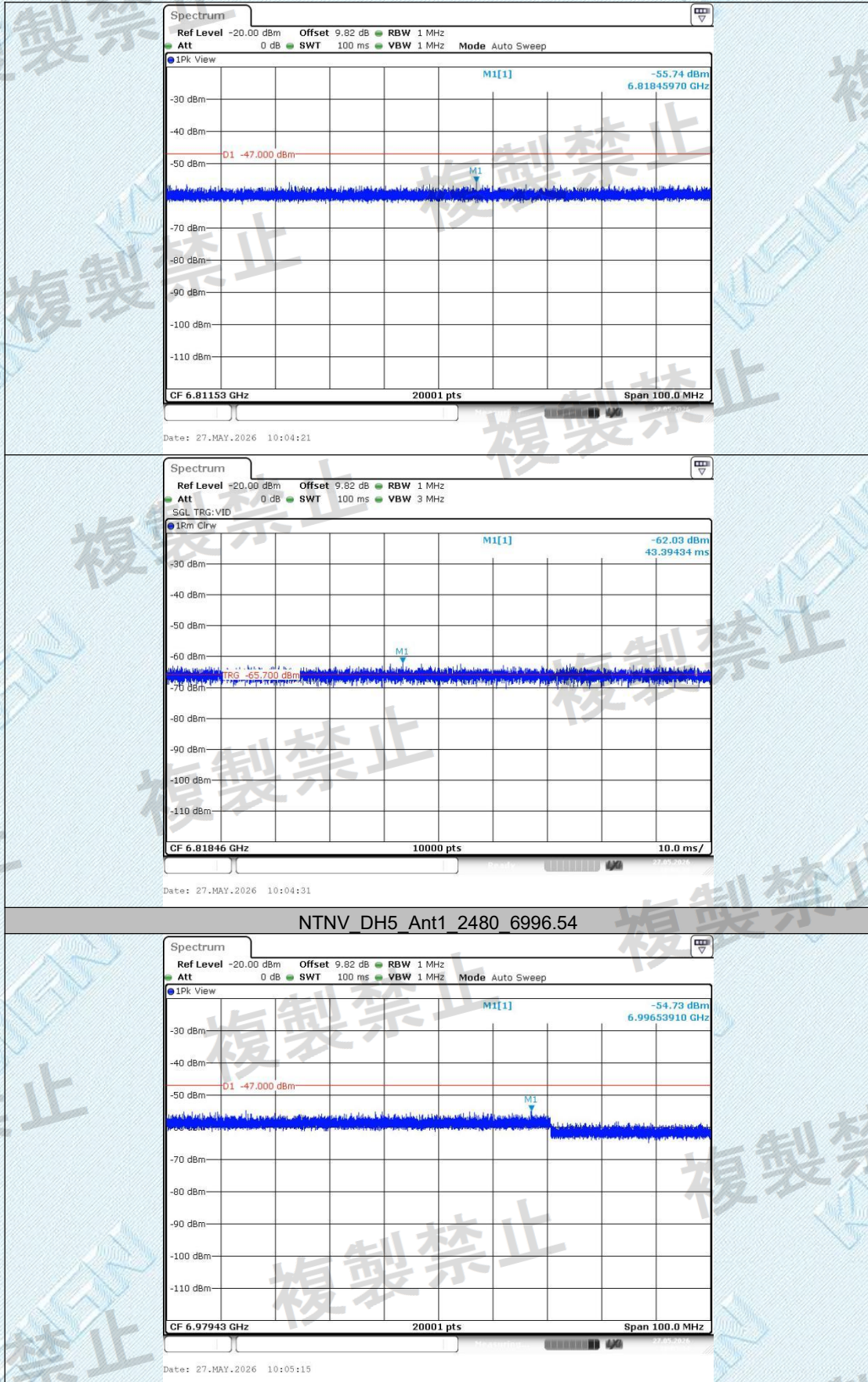
6.5.4. Test Graphs_Step2



TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

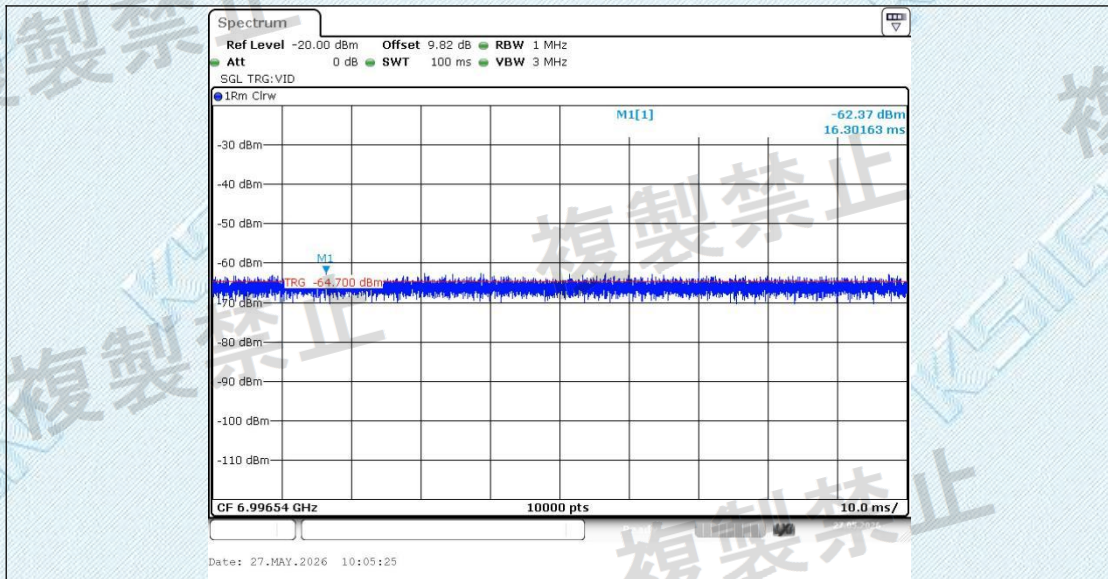
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



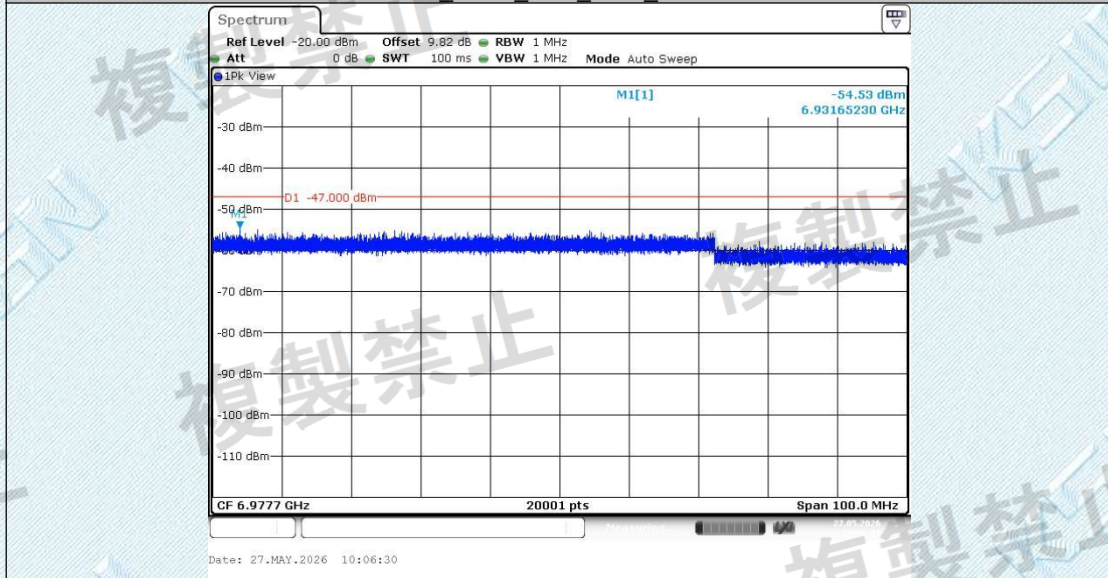
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

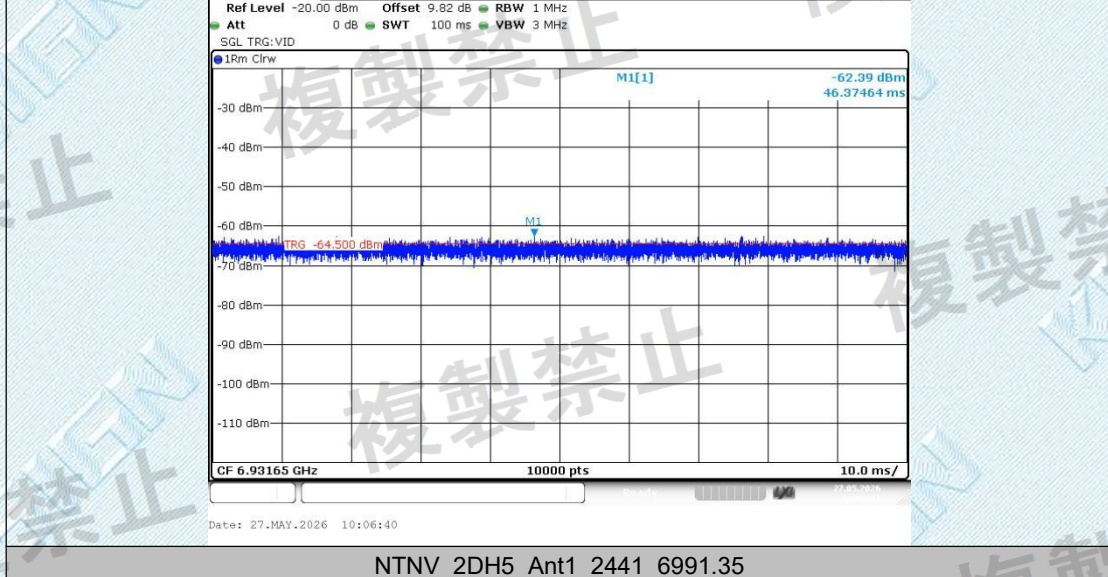
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



NTNV_2DH5_Ant1_2402_6931.65



NTNV_2DH5_Ant1_2441_6991.35

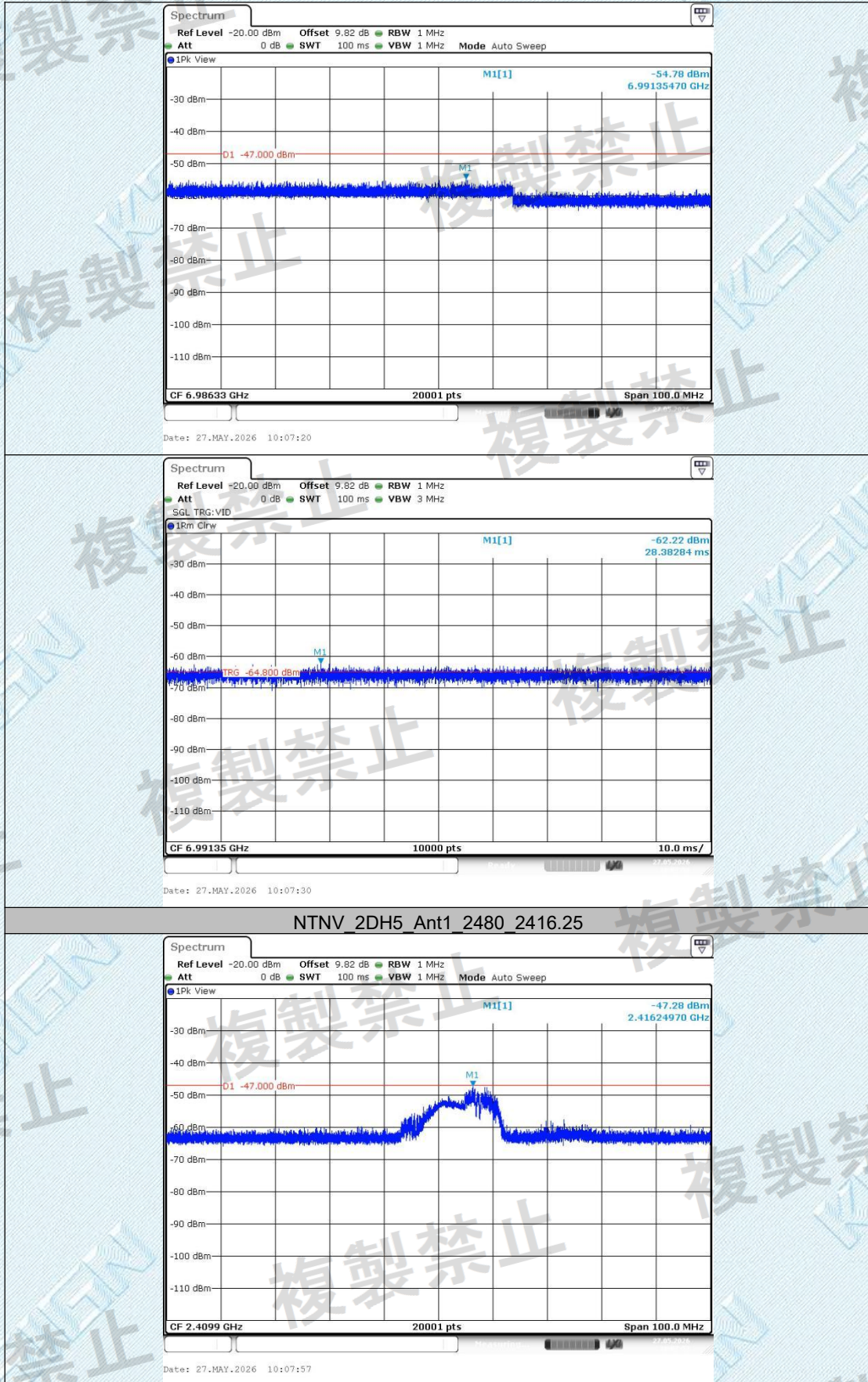


NTNV_2DH5_Ant1_2441_6991.35

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

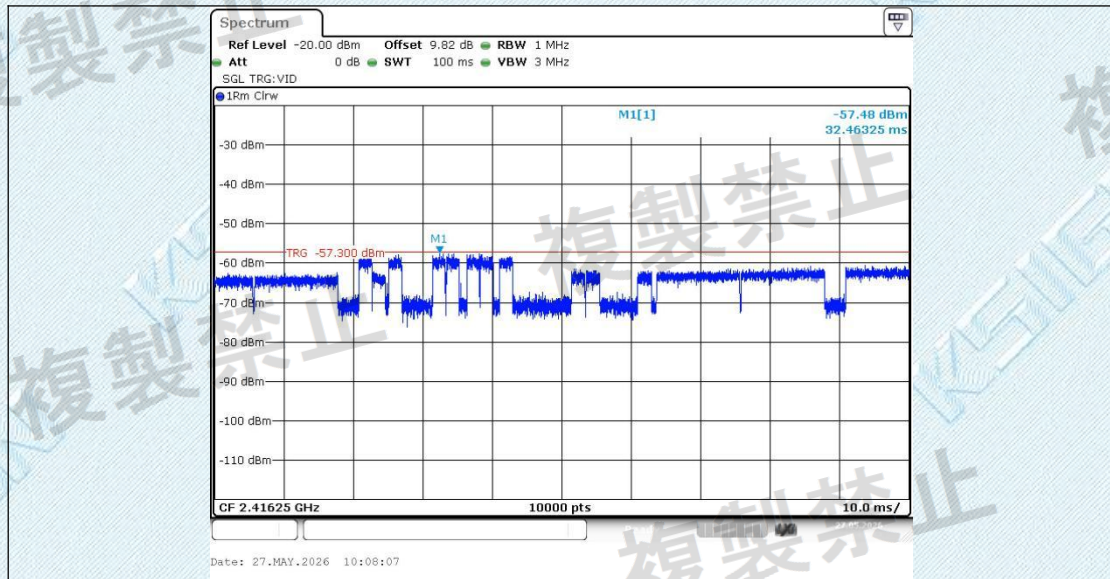
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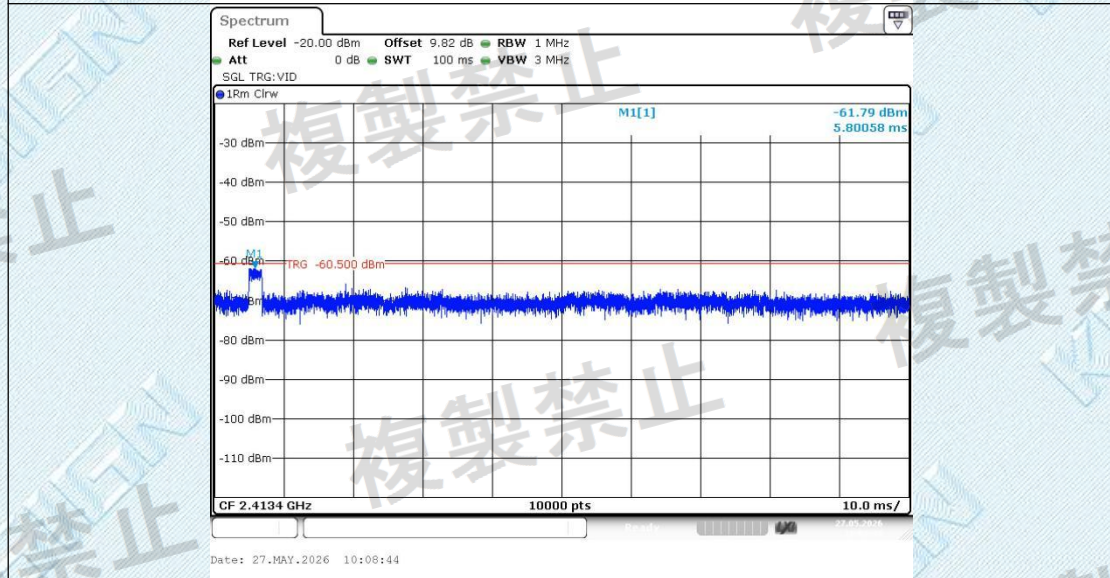
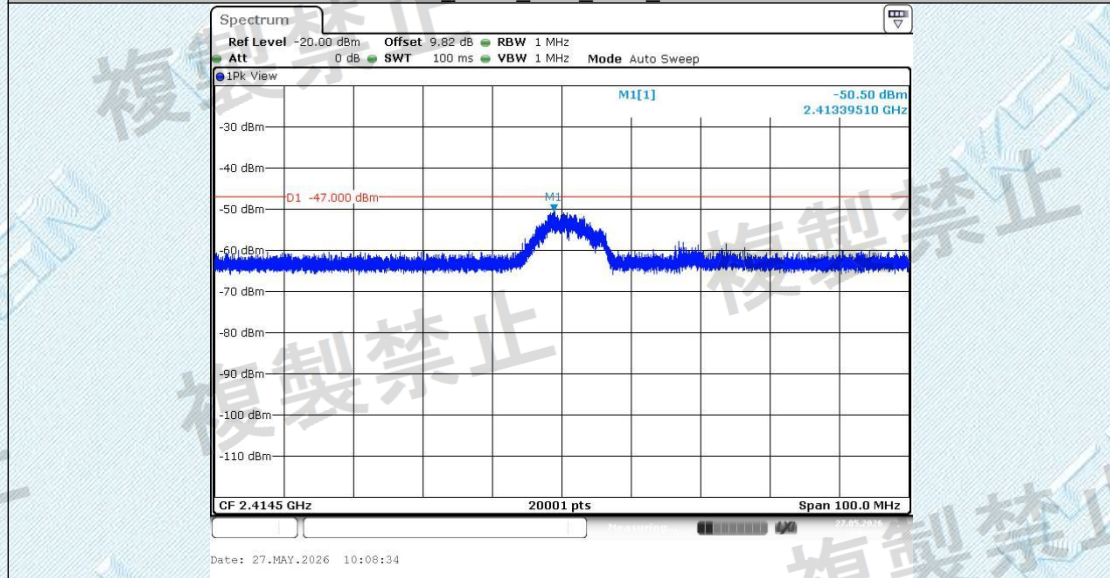
TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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NTNV_3DH5_Ant1_2402_2413.40

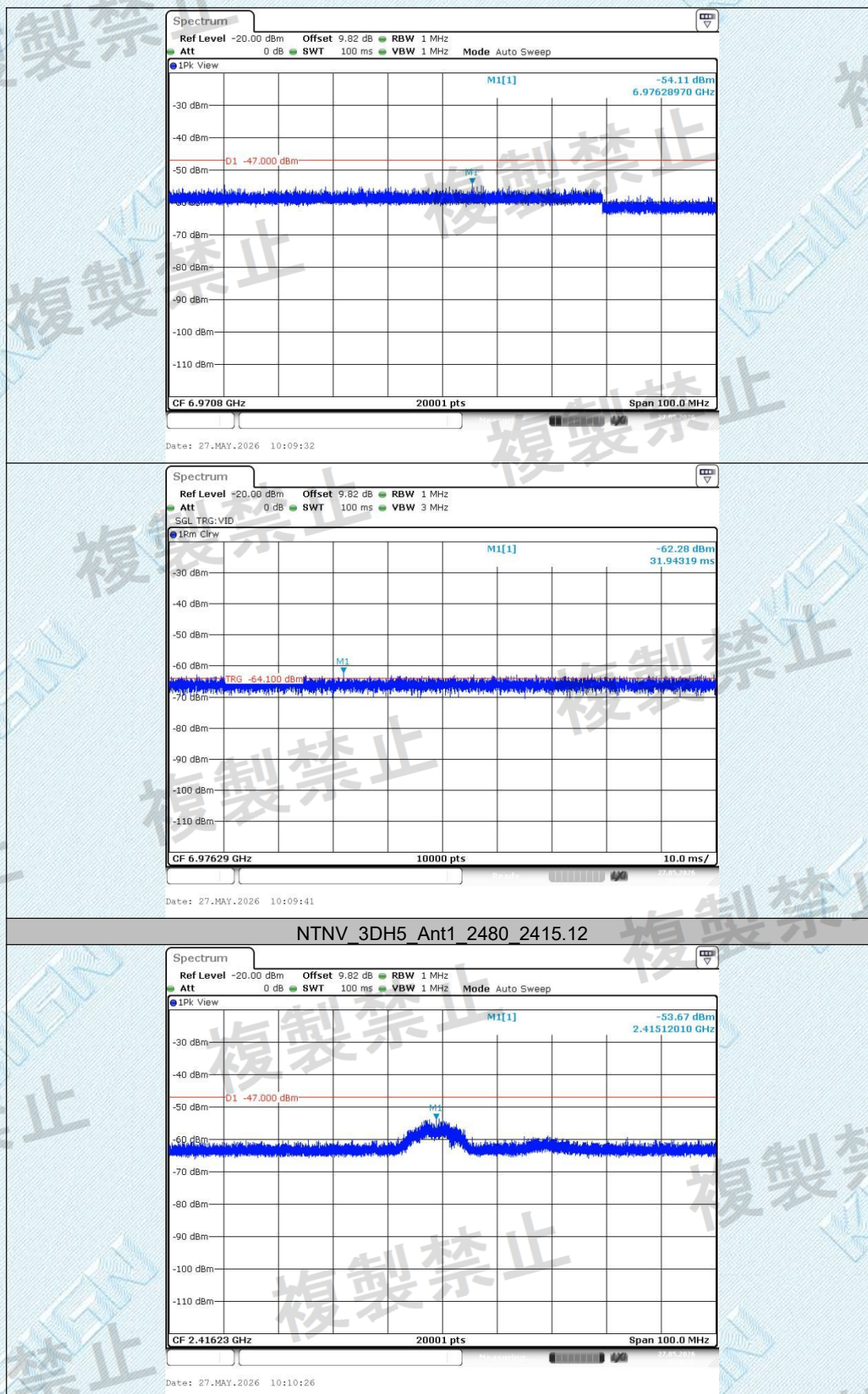


NTNV_3DH5_Ant1_2441_6976.29

TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

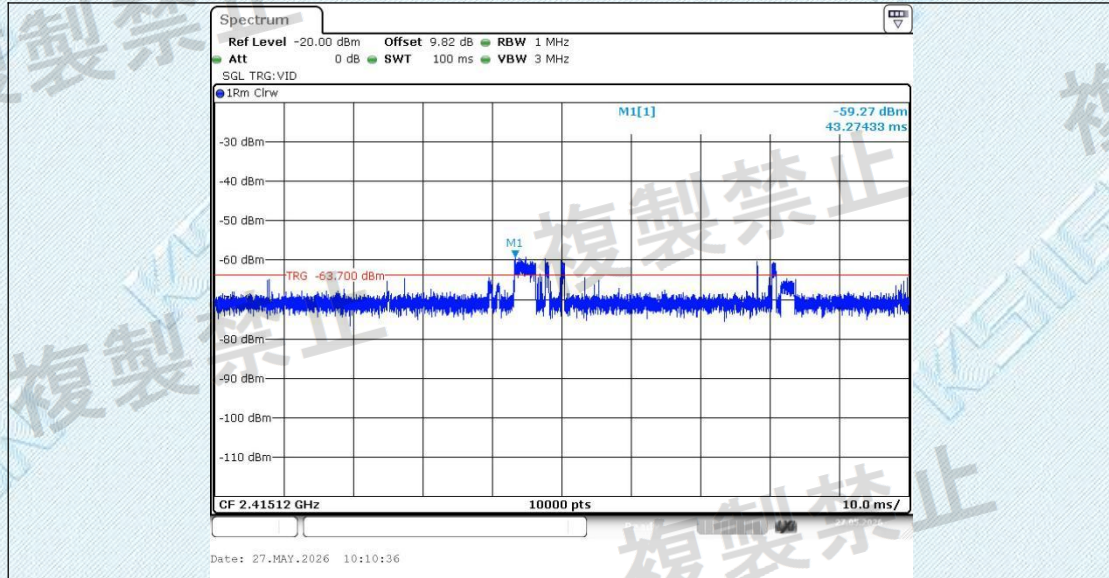
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TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

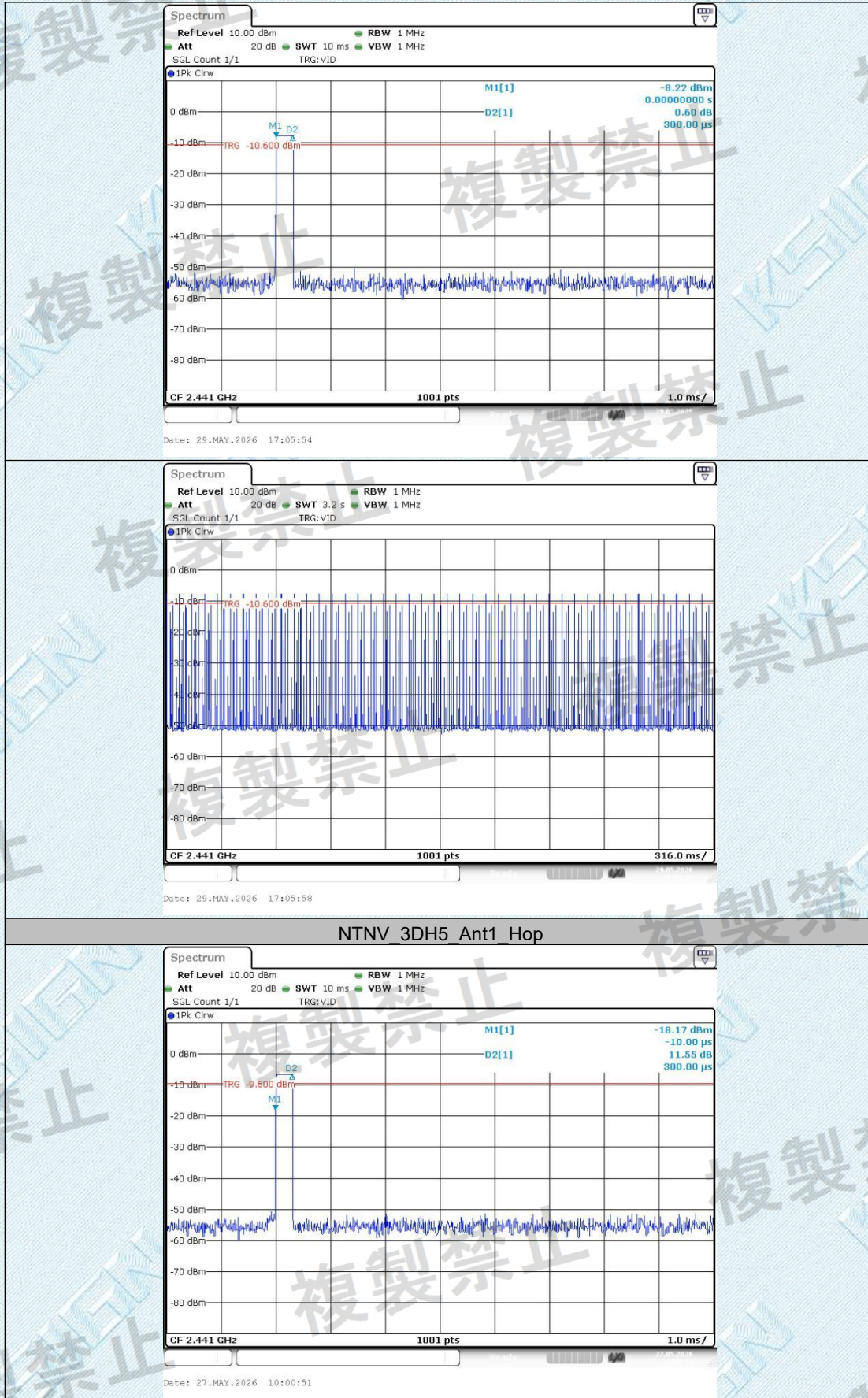
6.6. Appendix G: Dwell Time

6.6.1. Test Result

Test Condition	Test Mode	Antenna	Freq(M Hz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit [s]	Verdict
NTNV	DH5	Ant1	Hop	0.30	860	0.258	≤0.4	PASS
	2DH5	Ant1	Hop	0.30	860	0.258	≤0.4	PASS
	3DH5	Ant1	Hop	0.30	860	0.258	≤0.4	PASS

6.6.2. Test Graphs

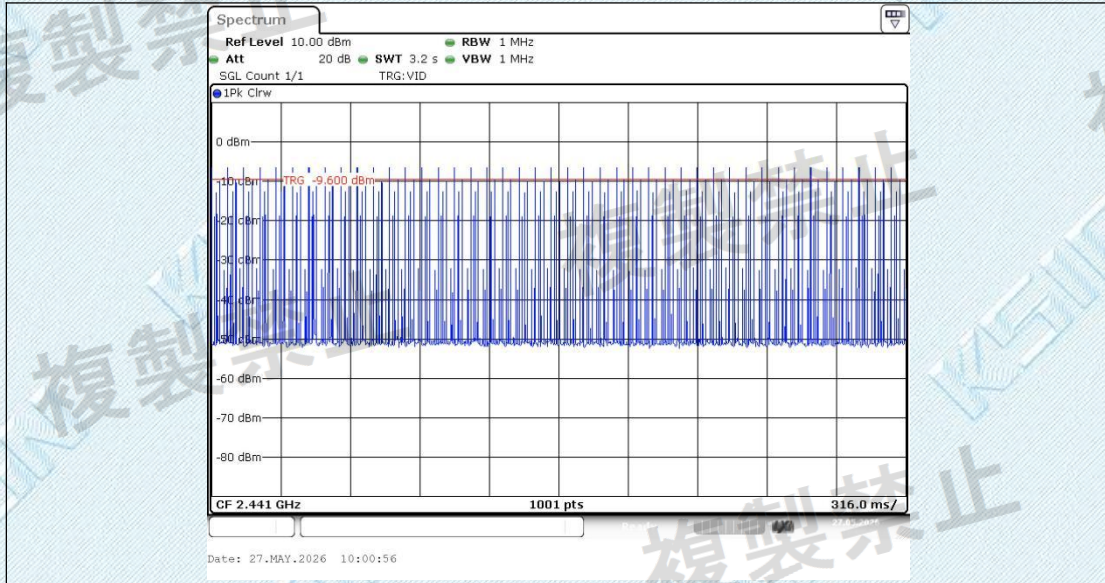




TRF No. RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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--THE END--

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1. The results are valid only for the samples submitted.
2. The report is invalid without the "APPROVED Seal" and the "Riding Seam Seal".
3. This report is invalid without the signature of the main inspector, reviewer, or approver.
4. The testing report cannot be partially copied without the written consent of our laboratory.
5. If the report is not stamped with the "CMA" logo, it indicates that the report does not have any social certification effect in China.
6. Product information, customer information, and sample sources are all provided by the client, and we are not responsible for their authenticity.
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8. Reports that are transferred, copied, stolen, impersonated, altered, or tampered with in any media form without authorization are invalid.
9. If you have any objections to this report, you can appeal to our unit within 15 days after receiving the report. Failure to do so will not be accepted.
10. For situations where compliance decision needs to be made based on test result, such as when there are no relevant decision rules required by the regulations, standards, or technical specifications used, or when there are no relevant customer requirements, the report issued by our laboratory refer to ILAC-G8:09-2019 and CNAS-GL015:2022 using simple acceptance decision rules.

Laboratory: KSIGN(Guangdong) Testing Co., Ltd.

Address: First Floor West Side, Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu Village, Shatou Community, Shajing Street, Bao'an District, Shenzhen City, Guangdong Province, P. R. China. 518104

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