

TEST REPORT

Application No.: SZCR2511005137AT
Applicant: Sonova Consumer Hearing GmbH
Address of Applicant: Im Heidkampe 9, 30659 Hannover, Germany
Manufacturer: Sonova Consumer Hearing GmbH
Address of Manufacturer: Im Heidkampe 9, 30659 Hannover, Germany
Equipment Under Test (EUT):
EUT Name: MOMENTUM True Wireless 5
Model No.: MTW5 (MTW5 R, MTW5 L)
Trade Mark: SENNHEISER
Standard(s) : MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2025-11-21
Date of Test: 2025-12-18
Date of Issue: 2025-12-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kenx. Xu

Kenx. Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/2

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-26		Original

Authorized for issue by:			
		Darren Yuan	
		Darren Yuan/Project Engineer	
		Eric Fu	
		Eric Fu/Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	MIC Item 19 of Article 2 Paragraph 1	N/A	MIC Item 19 of Article 2 Paragraph 1	Pass
Interference prevention capability		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
RF accessibility		N/A	MIC Item 19 of Article 2 Paragraph 1	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Frequency Error	MIC Item 19 of Article 2 Paragraph 1	MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Occupied Bandwidth(99%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spread spectrum Bandwidth(90%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Antenna Power		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Dwell time		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Spurious emission Intensity		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Limit of secondary radiated emissions		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass

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4 General Information

4.1 Details of E.U.T.

Item No.	Type of Information	Details / Description / specification
1	Test Item Description	True Wireless earphones
2	Product Name	MOMENTUM True Wireless 5 (MTW5)
3	Model No.	MTW5 (MTW5 R, MTW5 L)
4	Brand Name	SENNHEISER
5	Serial Number / Status of EUT	Engineering sample
6	Power Ratings	Earbuds: 3.8Vdc 72mAh or 3.85Vdc, 87mAh (Lithium button cell) Charging case: 5Vdc, 1000 mA (from Type-C USB interface) 3.7Vdc, 760mAh (from battery)
7	Power Supply (Nominal & Testing)	5Vdc, 1000mA (from Type-C USB interface)
8	Nominal Testing Voltage (Vnom)	3.8Vdc or 3.85Vdc
9	Operating Temperature range	0°C - +40°C
10	Modulation Type	BDR & EDR: GFSK, $\pi/4$ DQPSK, 8DPSK
11	Transmission Technology	BDR & EDR: FHSS
12	Technology	Bluetooth
13	Operating Frequency	BDR & EDR: 2402 - 2480MHz
14	No. of channels	BDR & EDR: 79
15	Channel Spacing	BDR & EDR: 1MHz
16	Channel Bandwidth	BDR & EDR: 79MHz
19	Data Transfer Rate	BDR: 1Mbps, EDR: 2Mbps/3Mbps
20	Antenna Type	Monopole
21	Antenna Gain	Right earbud: -5.0dBi Left earbud: -4.5dBi
22	Maximum Transmit Power	BR: 0.15 mW/MHz AFH: 0.50 mW/MHz
23	HW Version	V 6
24	SW Version	V 8.4.4
25	Cable supplied / Device ports	0.4m shielded USB C-C cable without core

Note1: The EUT system MTW5 contain the following devices:

Item	Brand	Device Model
Right Earbud	SENNHEISER	MTW5 R
Left Earbud	SENNHEISER	MTW5 L
Charging Case	SENNHEISER	MTW5 C

* MTW5 R and MTW5 L with BT TX/RX function

* Charging case is solely used for charging MTW5 R and MTW5 L only.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Operation frequency for classic BR/EDR

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

Selected Test Channel	
Channel	Frequency
The lowest channel (CH0)	2402MHz
The highest channel (CH78)	2480MHz

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4.2 Test Conditions

Power Supply

The RF unit is supplied DC 1.8V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from DC 3.8V to the test equipment is fluctuated by $\pm 10\%$, So, all measurement has been conducted by only rated voltage.

The measurement result of the voltage fluctuation at RF circuit when DC 3.8V $\pm 10\%$.

Test result for left earbud

DC Input	input voltage to the circuit	Voltage Fluctuation (%)
3.42V	1.8V	0
3.80V	1.8V	0
4.18V	1.8V	0

Test result for right earbud

DC Input	input voltage to the circuit	Voltage Fluctuation (%)
3.42V	1.8V	0
3.80V	1.8V	0
4.18V	1.8V	0

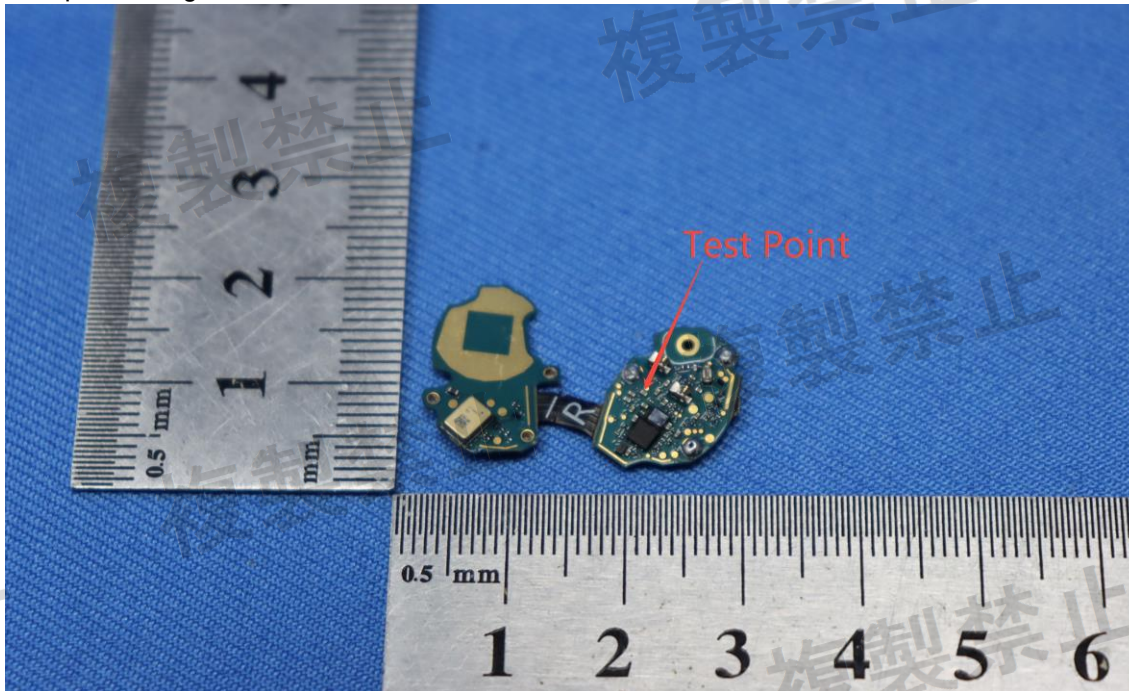
Test point for left earbud



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Test point for right earbud



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4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25\text{E}-8$
Occupied Bandwidth(99%)	$\pm 3\%$
Spread spectrum Bandwidth(90%)	$\pm 3\%$
Antenna Power	$\pm 0.75\text{dB}$
Dwell time	$\pm 0.37\%$
Spurious emission Intensity	$\pm 0.75\text{dB}$
Limit of secondary radiated emissions	$\pm 0.75\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



5 Equipment List

Equipment list							
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date	Calibration body	Classification
MXA Signal Analyzer(10Hz-26.5GHz)	KEYSIGHT	N9020A	MY53300619	2025-3-4	2026-3-3	SGS	(c)
Signal Generator (9kHz-40GHz)	KEYSIGHT	N5173B	MY53270267	2025-9-13	2026-9-12	CEPREI	(c)
Multimeter	FLUKE	Fluke 87	27900002	2025-2-26	2026-2-25	SGS	(c)
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	152272	2025-3-3	2026-3-2	SGS	(c)
Humidity/ Temperature Indicator	Deli	8838	8838	2025-7-23	2026-7-22	SGS	(c)
Barometer	Changchun Meteorological Industry Factory	DYM3	0026	2025-3-3	2026-3-2	SGS	(c)
DC Power Supply	Chroma	62012P-80-60	62012PD01784	2025-7-24	2026-7-23	SGS	(c)
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	N/A	N/A
Remark: (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL. (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992). (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c). From JRL Article 24-2, paragraph 4, Item 2							

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

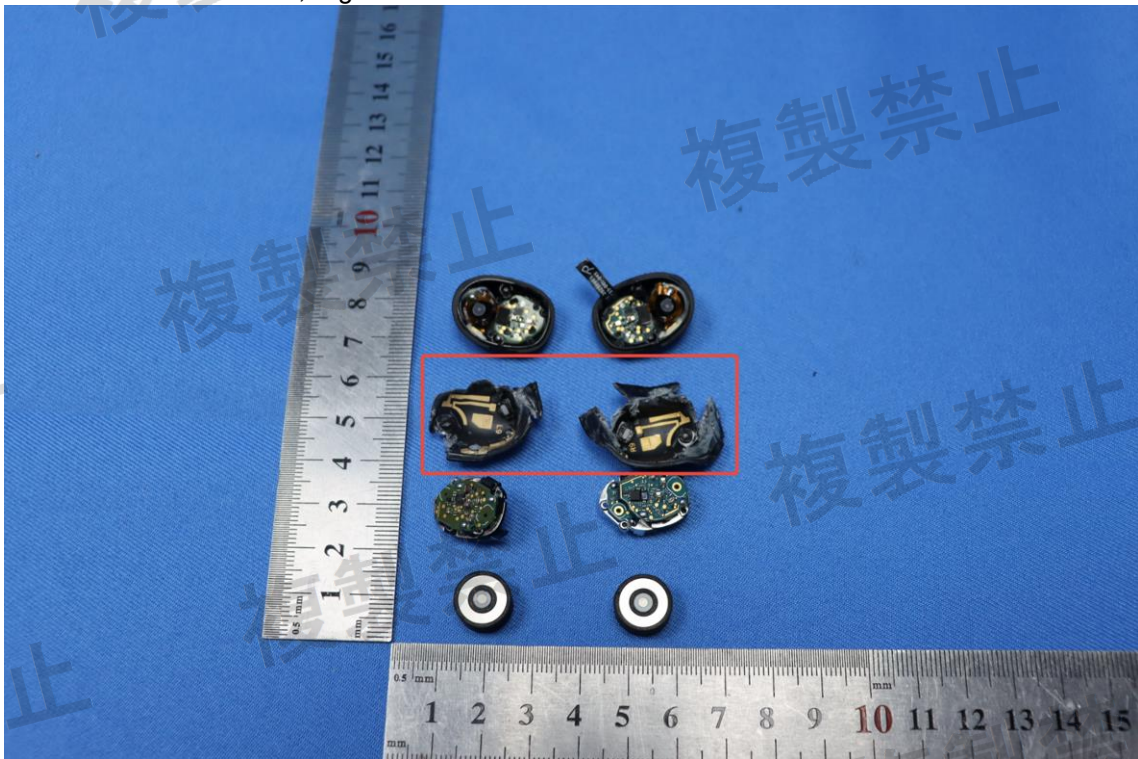
6.1.2 Conclusion

Standard requirement:

Applicable for equipment with an antenna terminal, including testing terminals. If an antenna connector is available, all relevant tests will be carried out conducted. If not, tests will be carried out in an anechoic room or with a suitable test-fixture.

EUT Details:

The antenna is integrated on the enclosure and no consideration of replacement. The best case gain of the antenna is Left earbud: -4.5dBi, Right earbud: -5.0dBi



Result:

An antenna connector is available, all relevant tests will be carried out conducted.



6.2 Interference prevention capability

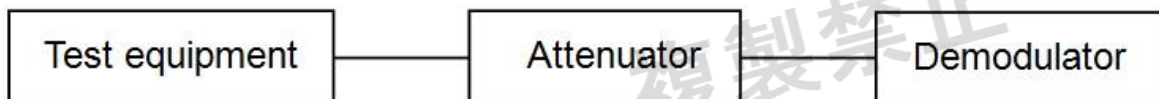
6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

Limit:

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

6.2.2 Test Setup Diagram



6.2.3 Conclusion

Standard Requirement:

- 1) Measurement system diagram as shown above and test equipment keep transmitting identification code.
- 2) Condition of measuring instrument
 - (1) Demodulator must be able to demodulate the transmitting signal emitted by test equipment and to indicate the identification code.
- 3) Condition of test equipment the mode of normal use.
- 4) Measuring operation procedure
 - (1) When test equipment has the function to transmit identification code automatically:
 - A) Transmit the predetermined identification code from test equipment.
 - B) Confirm the transmitted identification code by demodulator.

EUT Details:

80:C3:BA:95:FF:97

The unit does meet the requirements (Good).



6.3 RF accessibility

6.3.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

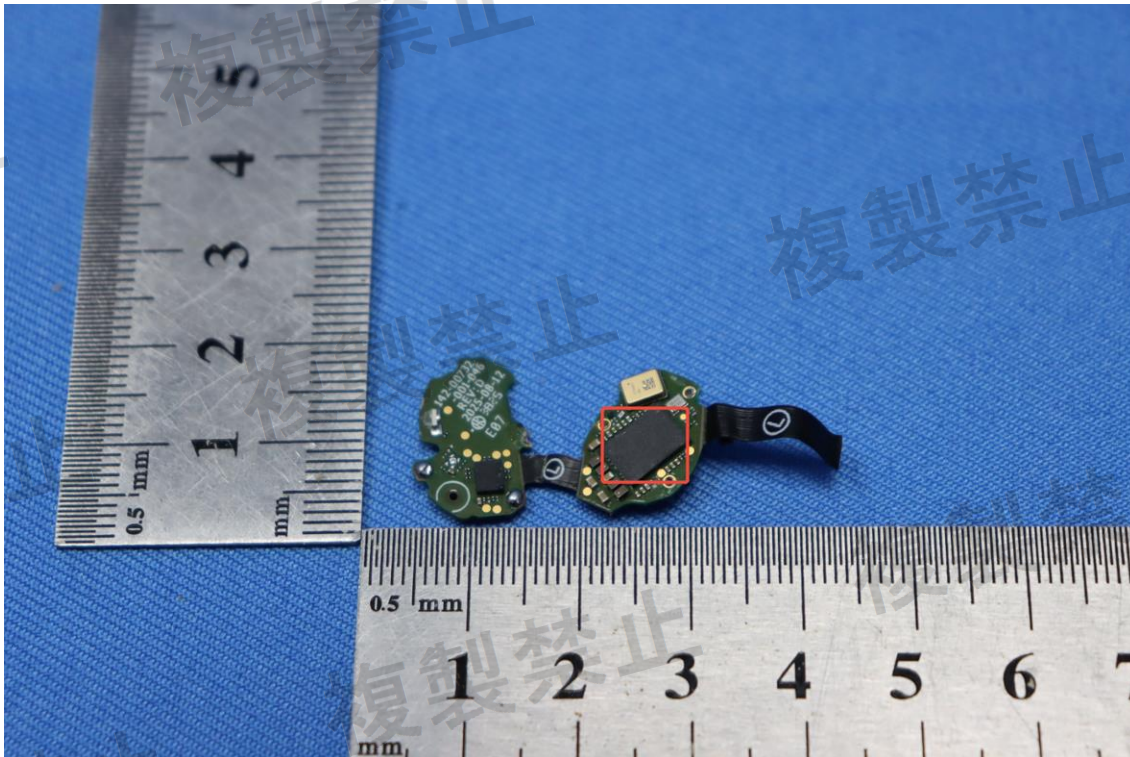
6.3.2 Conclusion

Standard Requirement:

The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.

EUT Details:

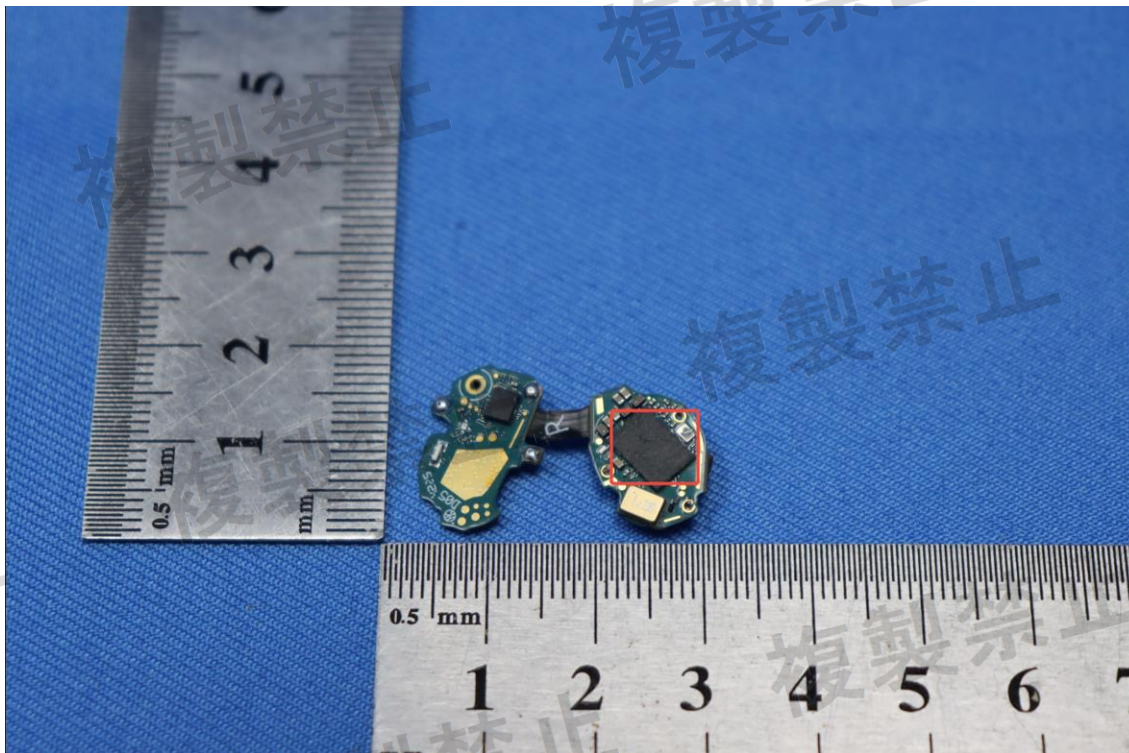
Left earbud:



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Right earbud:



RF and Modulation part are mounted on PCB with surface mount technology and there is no any adjustable part on PCB or adjustable parts are not exposed.

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7 Radio Spectrum Matter Test Results

7.1 Frequency Error

Test Requirement: MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Linvo Ding

Limit:

Tolerance of frequency: $\pm 50\text{E-6}$

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

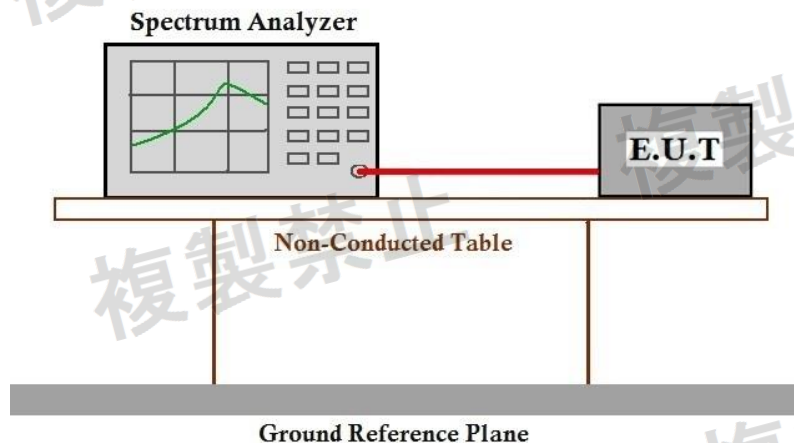
Humidity: 52.0 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



7.2 Occupied Bandwidth(99%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Linvo Ding

Limit:

FH: 83.5MHz or less

OFDM: 40MHz or less

Others: 26MHz or less

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

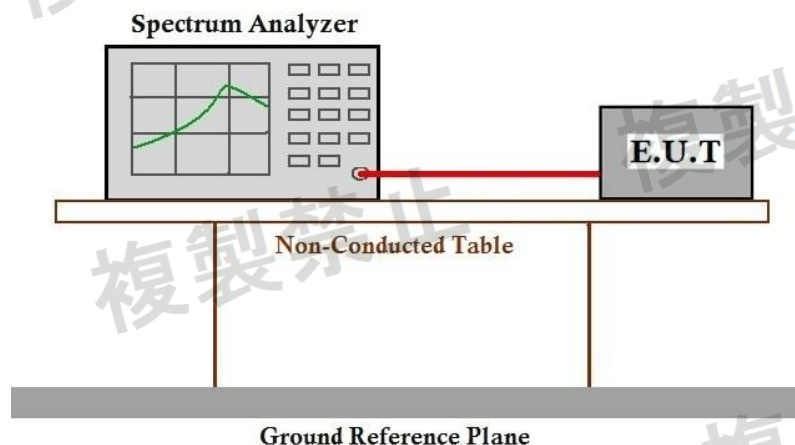
Humidity: 52.0 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS); 2-5 times OBW (Others)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3% OBW (Others)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS); 3 times RBW (Others)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 99%

Please Refer to Appendix for Details



7.3 Spread spectrum Bandwidth(90%)

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Linvo Ding

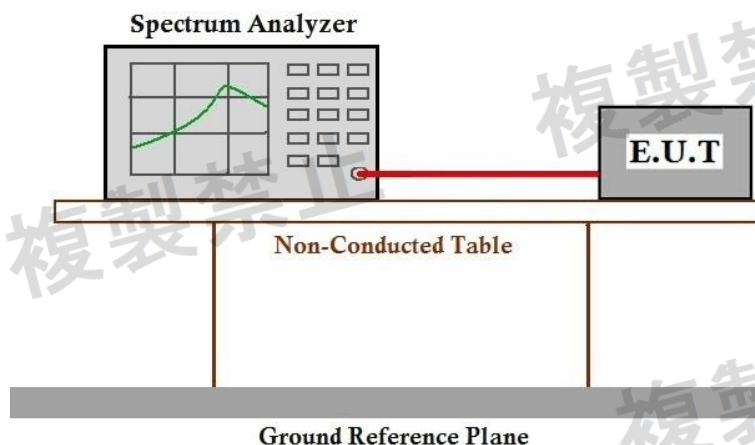
7.3.1 E.U.T. Operation

Operating Environment:
Temperature: 25.0 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 83.5 MHz (FHSS); 40/60 MHz (OFDM; DSSS)

RBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

VBW 1 MHz (FHSS); 300kHz (OFDM; DSSS)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

OBW 90%

Please Refer to Appendix for Details



7.4 Antenna Power

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Linvo Ding

Limit:

Designated value

(1) FH, FH+DS, FH+OFDM: 3mW/MHz

(used in the range of 2427 - 2470.75 MHz)

(2) OFDM, DS other than (1) 10mW/MHz

(3) Other than (1) & (2) 10mW

(4) OFDM OBW 26 - 40MHz: 5mW/MHz

Tolerance: +20%, -80%

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C

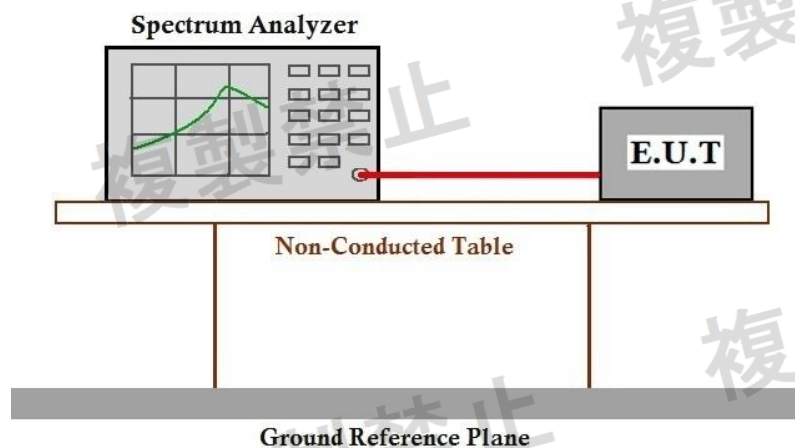
Humidity: 52.0 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 25 MHz(FHSS); 40/60 MHz (OFDM; DSSS); Enough to capture the emission (Others)

RBW 1 MHz (FHSS; OFDM; DSSS); More than OBW (Others)

VBW 1 MHz (FHSS; OFDM; DSSS); More than RBW (Others)

Sweep Time Auto

detector mode RMS

Indication mode Max hold

Please Refer to Appendix for Details



7.5 Dwell time

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Linvo Ding

Limit:

less than 0.4sec

7.5.1 E.U.T. Operation

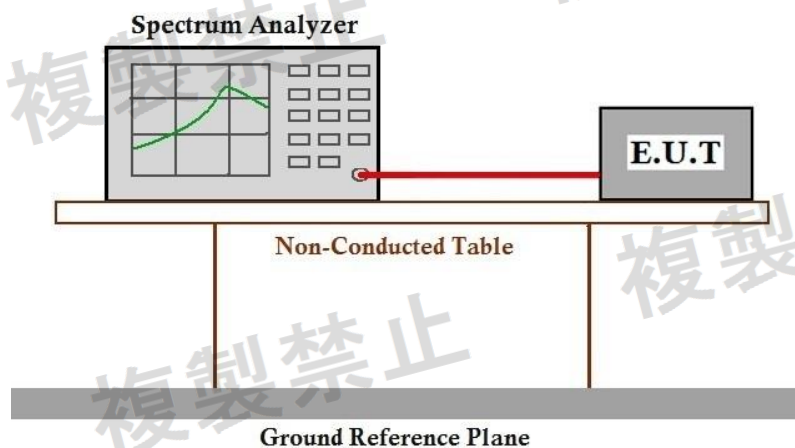
Operating Environment:

Temperature: 25.0 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Hopping frequency is fixed, Bluetooth equipment is setting DH5 mode

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Frequency: Test Frequency (fixed hopping frequency)

Span 0 Hz

RBW 1 MHz

VBW 1 MHz

Sweep Time EUT condition

Trigger Video Trigger

Measures the Transmission time of 1 burst (sec)

Measures the Burst cycle (sec)

4. Calculation procedure:

Dwell time = $(0.4(s) \times [\text{spreading rate}] \times [\text{Transmission time of 1 burst(s)}]) / ([\text{burst cycle(s)}] \times [\text{No. of hopping channel}])$

Note:

* Spreading rate = $[\text{Spread bandwidth (actual measurement value)}] / [\text{Transmission rate}]$

Please Refer to Appendix for Details



7.6 Spurious emission Intensity

Test Requirement MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Test Engineer: Linvo Ding

Limit:

- (1) Below 2387 MHz: 2.5 μ W/MHz
- (2) 2387 to 2400 MHz: 25 μ W/MHz
- (3) 2483.5 through 2496.5 MHz: 25 μ W/MHz
- (4) Over 2496.5 MHz: 2.5 μ W/MHz

7.6.1 E.U.T. Operation

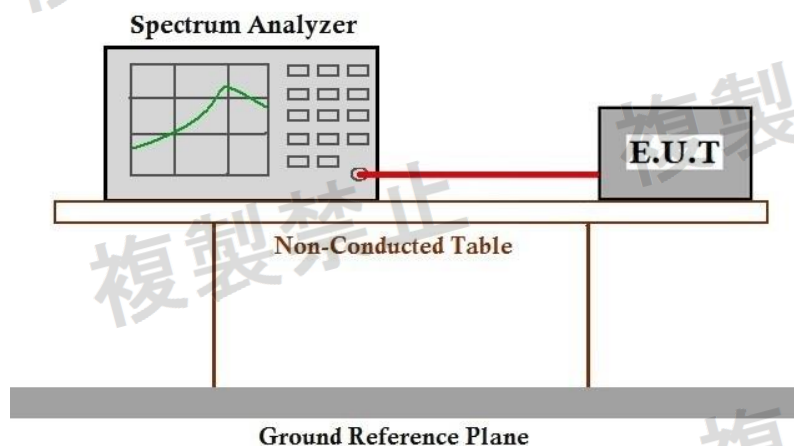
Operating Environment:

Temperature: 25.0 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_Keep the EUT in transmitting mode

7.6.3 Test Setup Diagram



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7.6.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON, Modulation Tx

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz , 2483.5 MHz -13 GHz

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

RBW 1 MHz

VBW 1 MHz

Sweep Time Auto

detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



7.7 Limit of secondary radiated emissions

Test Requirement MIC Item 19 of Article 2 Paragraph 1

Test Method: MIC Notice No.88 Appendix No.43

Test Engineer: Linvo Ding

Limit:

(1) Below 1 GHz : 4 nW or less

(2) 1 GHz and over : 20 nW or less

7.7.1 E.U.T. Operation

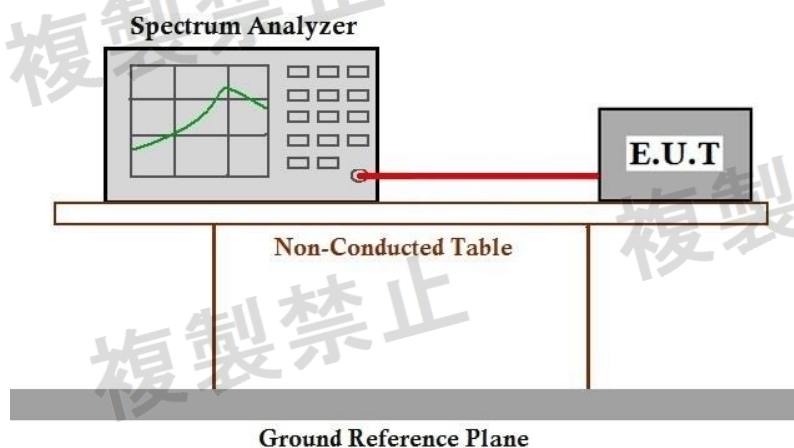
Operating Environment:

Temperature: 25.0 °C Humidity: 52.0 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	RX_Keep the EUT in receiving mode

7.7.3 Test Setup Diagram



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7.7.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

For equipment using diffusion code, set to the test diffusion code and modulate with standard coding test signal.

3. Spectrum Analyzer conditions:

Step 1

All spurious are measured from 30 MHz to 13 GHz by peak mode.

Step 2

IF the value measured by Step1 is 2 dB or less, measure in average mode.

Test setup for Step 1:

Frequency: 30 MHz - 2400 MHz, 2483.5 MHz -13 GHz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

RBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

VBW 100 kHz (30 - 1GHz), 1 MHz (over 1GHz)

Sweep Time Auto

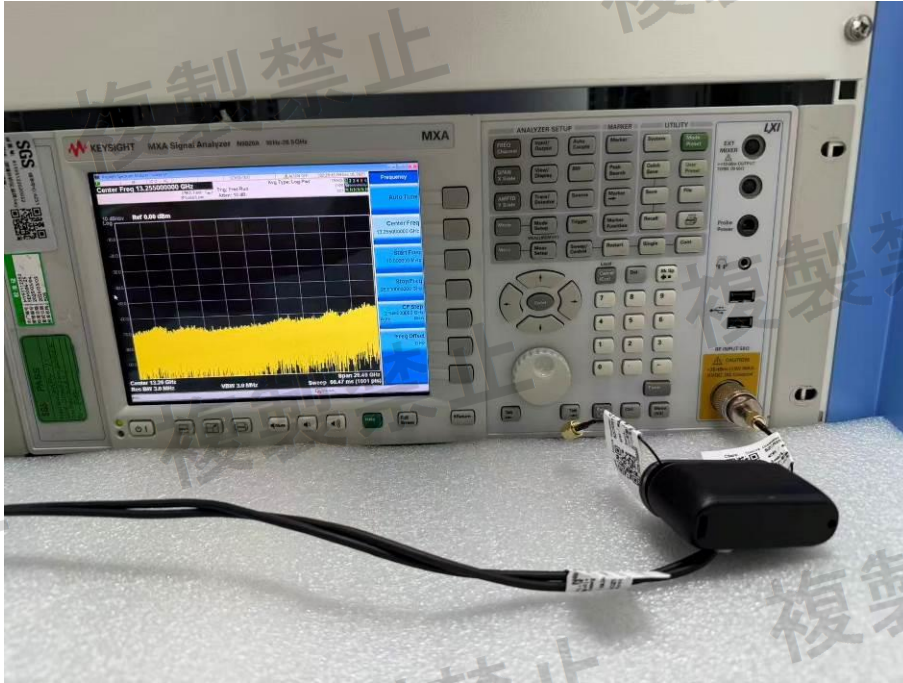
detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



8 Test Setup Photo



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2511005137AT



10 Appendix

Test data for left earbud:

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

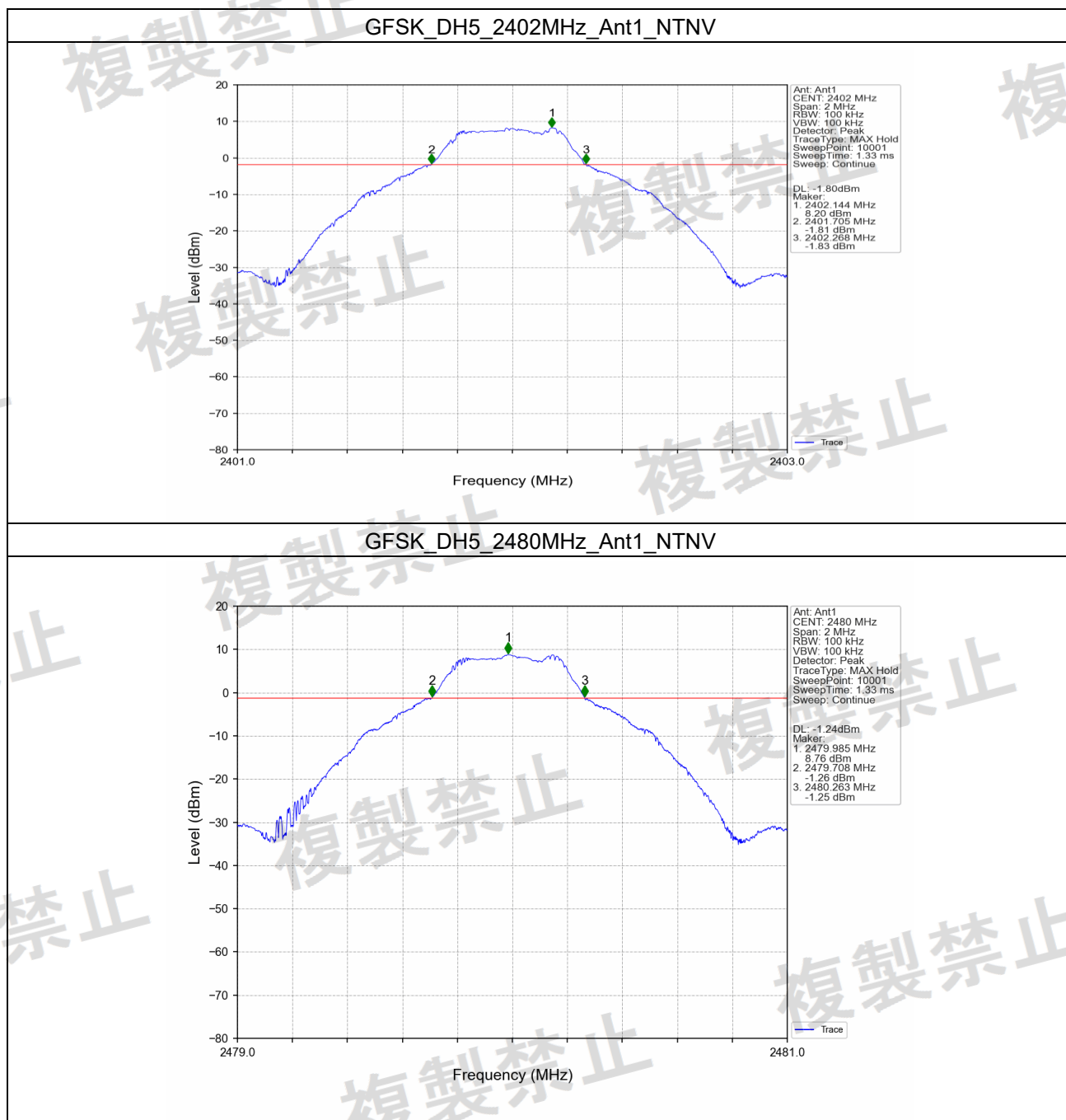
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	GFSK	SISO	2402	DH5	2401.987	-5.54	-50 to 50	Pass
			2480	DH5	2479.985	-5.85	-50 to 50	Pass
	Pi/4DQPSK	SISO	2402	2DH5	2401.985	-6.24	-50 to 50	Pass
			2480	2DH5	2479.984	-6.29	-50 to 50	Pass
	8DPSK	SISO	2402	3DH5	2401.979	-8.89	-50 to 50	Pass
			2480	3DH5	2479.980	-8.13	-50 to 50	Pass

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1.2 Test Graph

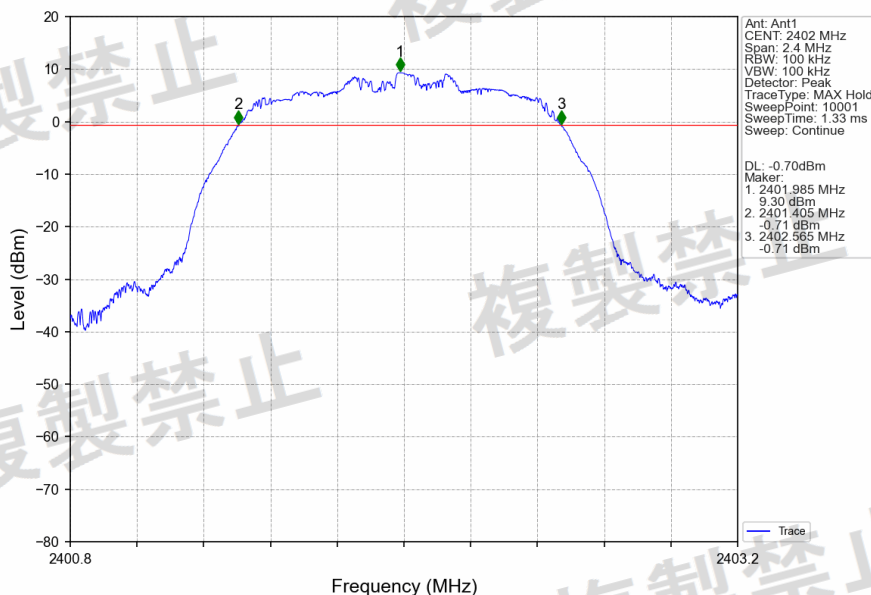
1.2.1 Ant1



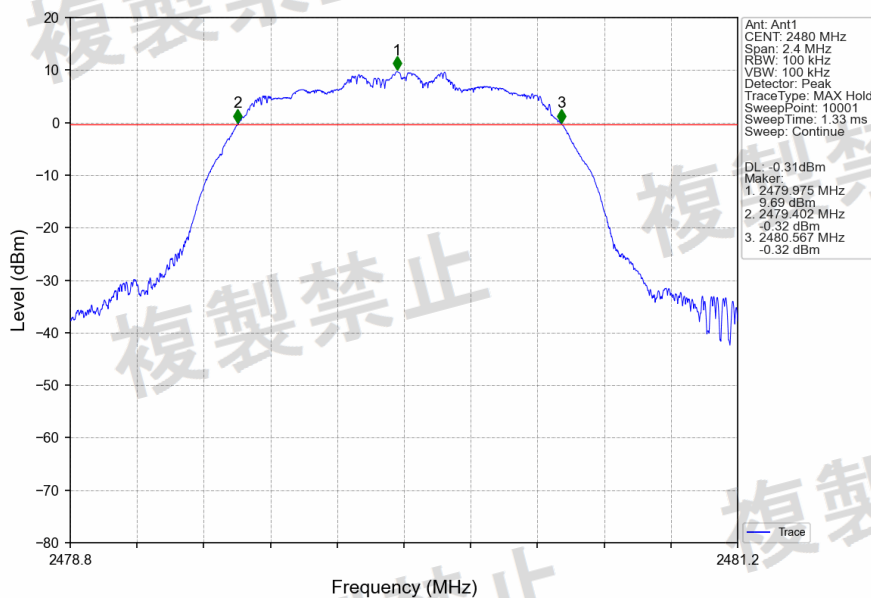
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

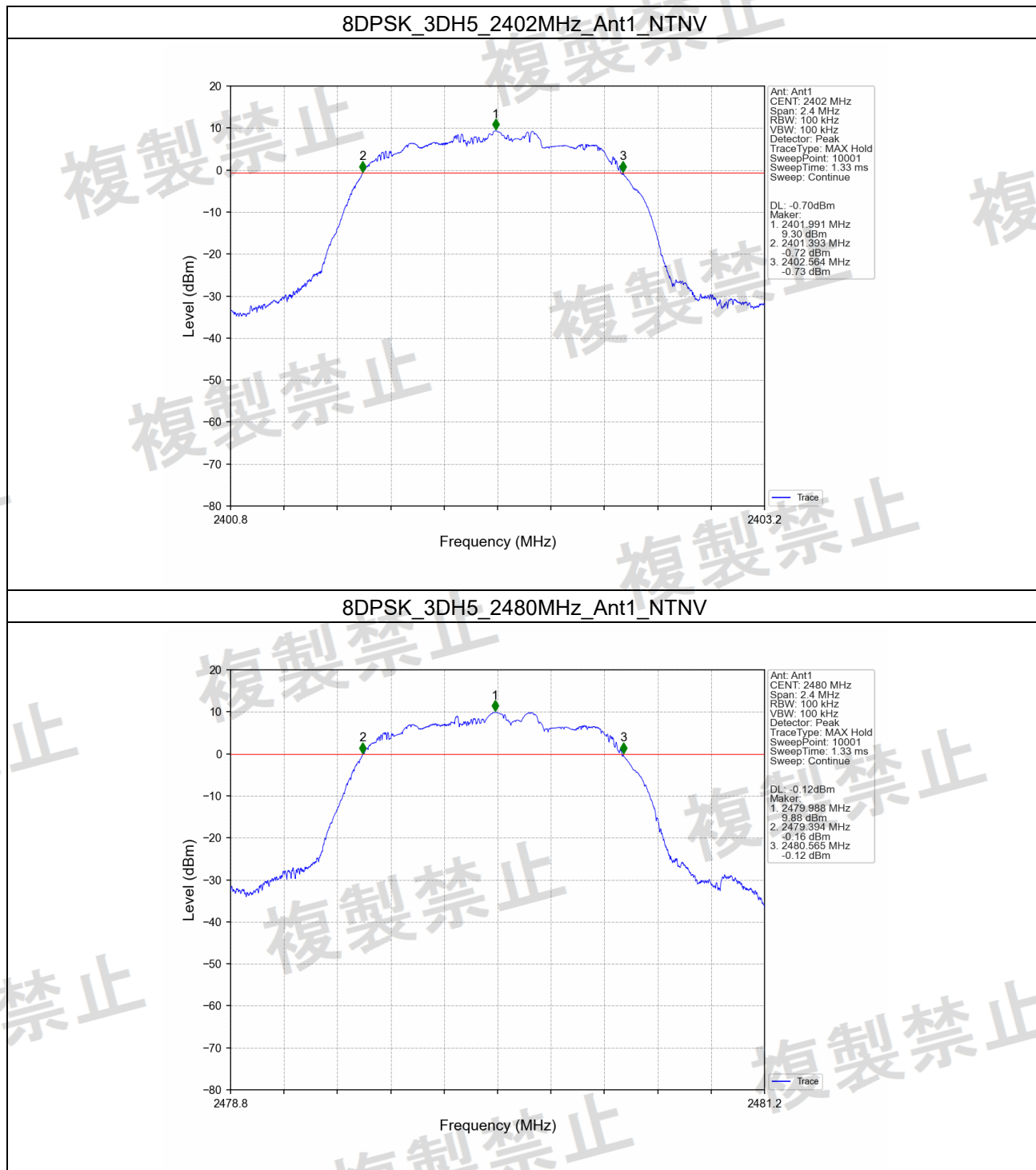


Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



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2. Occupied Bandwidth

2.1 Test Result

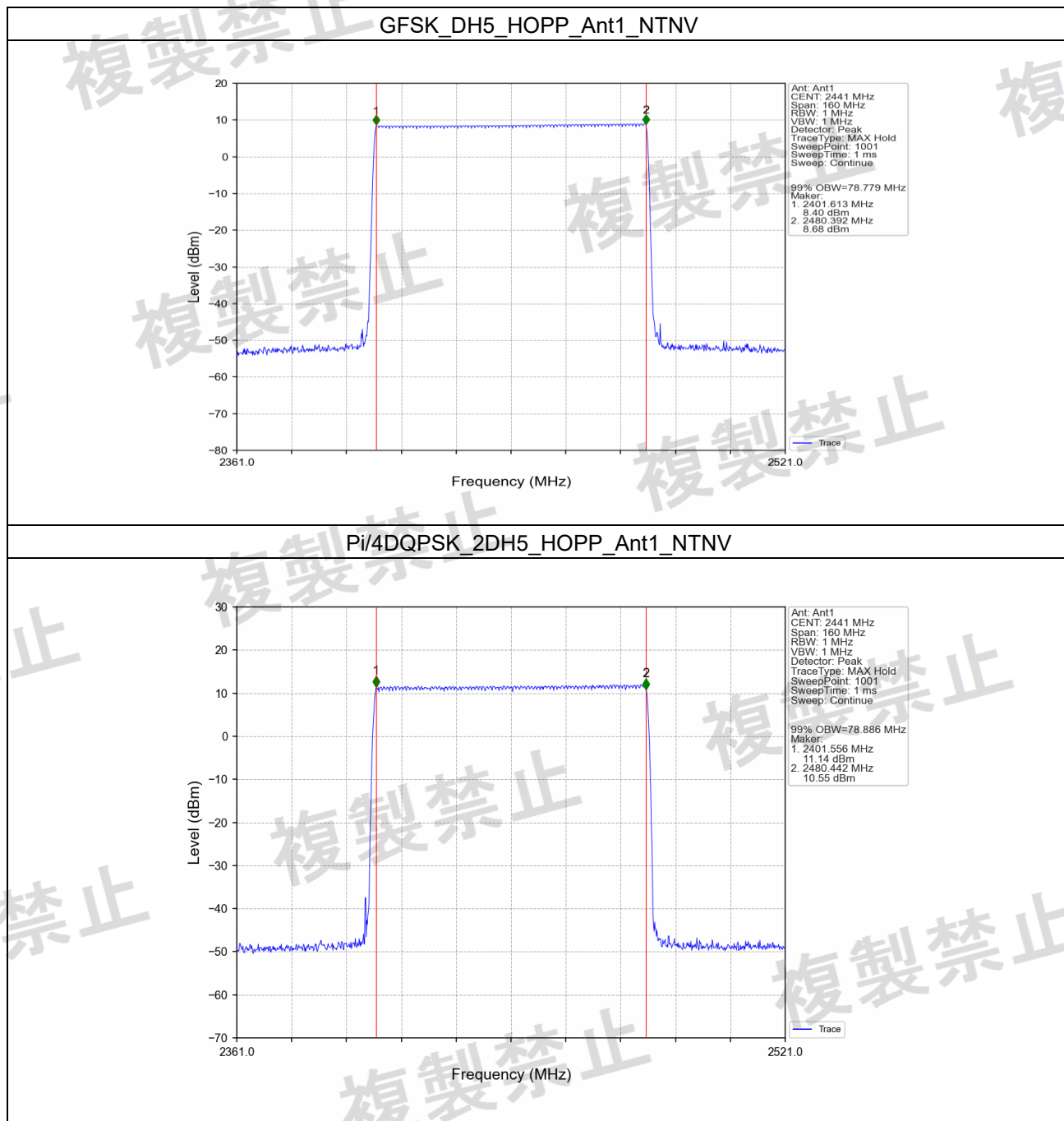
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.779	<=83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.886	<=83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.863	<=83.5	Pass



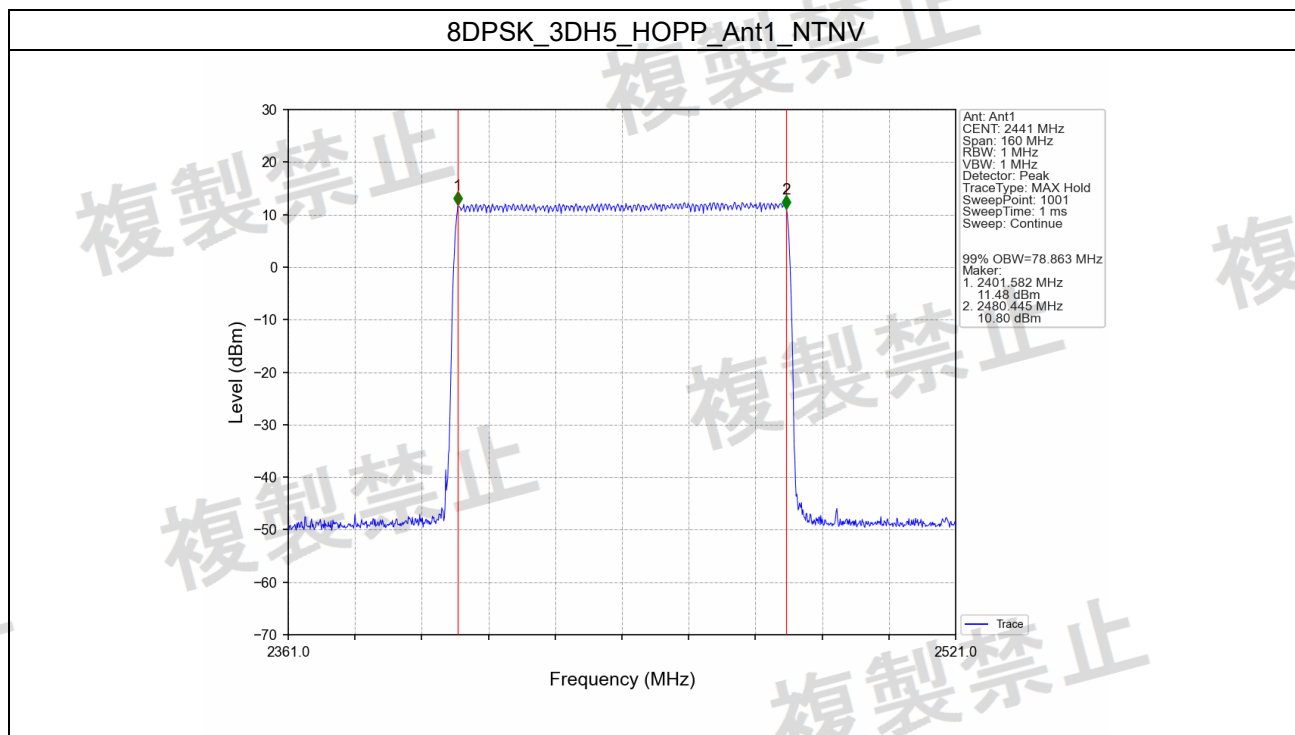
2.2 Test Graph

2.2.1 OBW



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3. Spread Bandwidth

3.1 Test Result

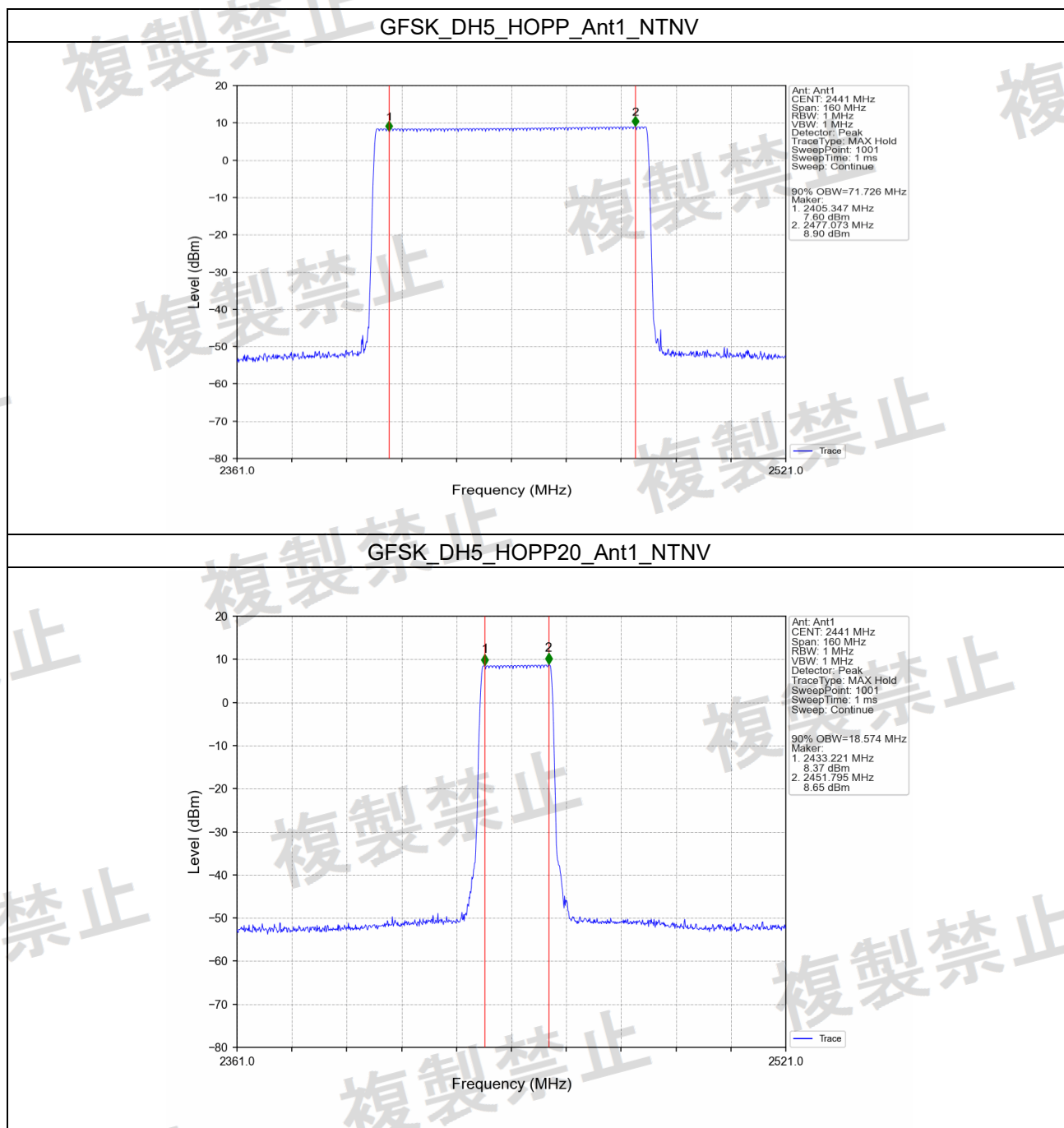
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.726	/	Only For Report
			HOPP20	DH5	18.574	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.776	/	Only For Report
			HOPP20	2DH5	18.671	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.809	/	Only For Report
			HOPP20	3DH5	18.643	/	Only For Report



3.2 Test Graph

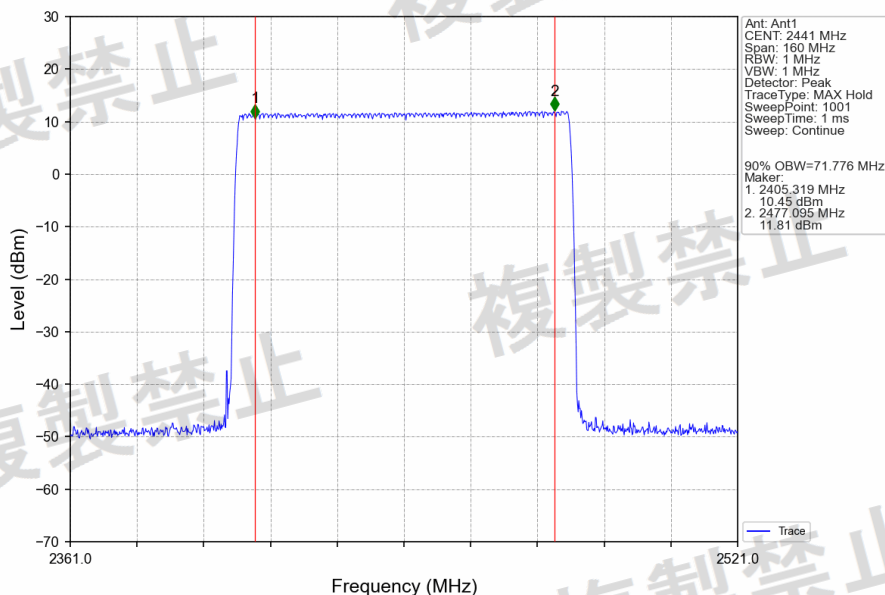
3.2.1 SPBW



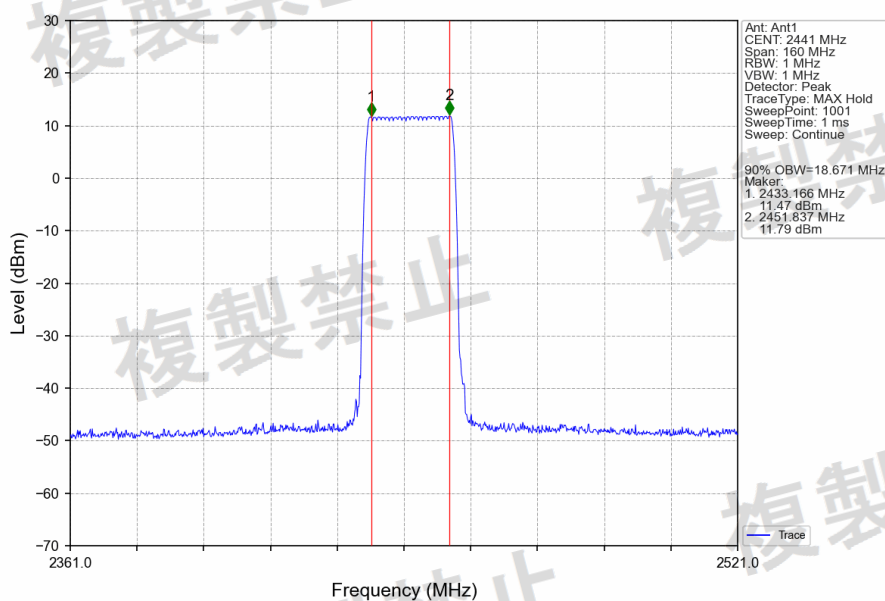
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



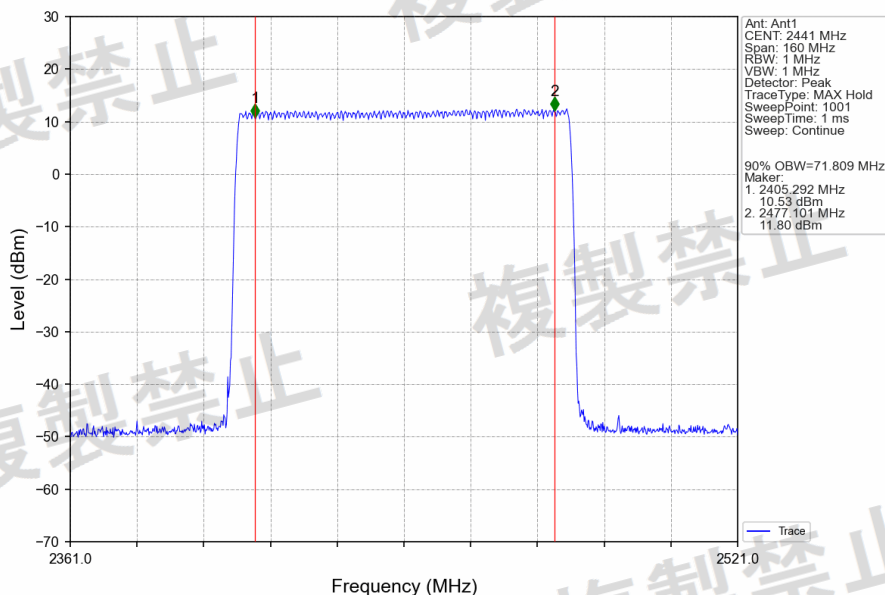
Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



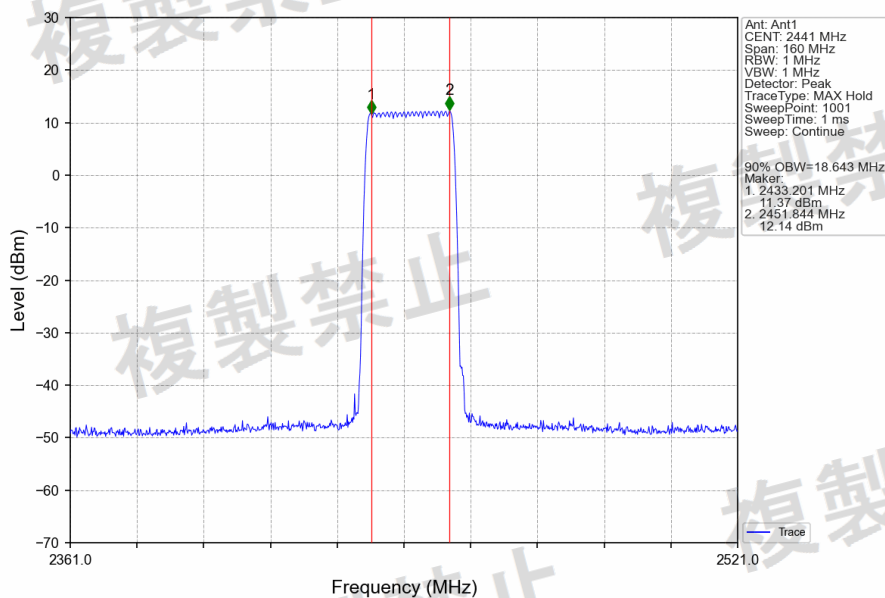
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV



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4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.091	<=3.00	0.150	-39.33	<=20	Pass
			HOPP20	DH5	1	0.350	<=3.00	0.500	-30.00	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.135	<=3.00	0.150	-10.00	<=20	Pass
			HOPP20	2DH5	1	0.521	<=3.00	0.500	4.20	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.137	<=3.00	0.150	-8.67	<=20	Pass
			HOPP20	3DH5	1	0.529	<=3.00	0.500	5.80	<=20	Pass

4.1.2 EIRP

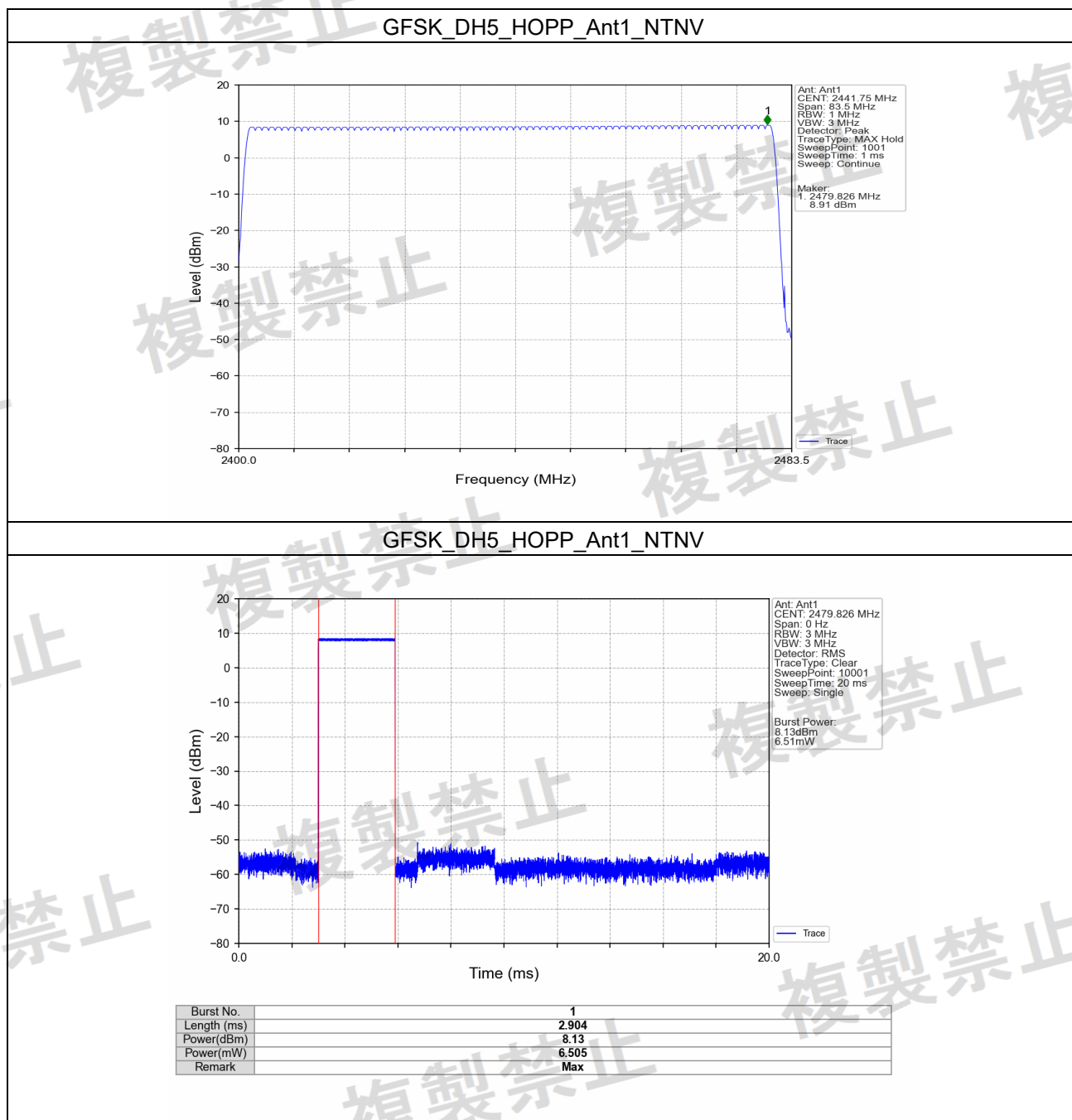
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	EIRP (dBm/MHz)		Verdict
							Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	-4.50	-14.92	<=6.91	Pass
			HOPP20	DH5	1	-4.50	-9.06	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-4.50	-13.18	<=6.91	Pass
			HOPP20	2DH5	1	-4.50	-7.33	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-4.50	-13.12	<=6.91	Pass
			HOPP20	3DH5	1	-4.50	-7.27	<=6.91	Pass

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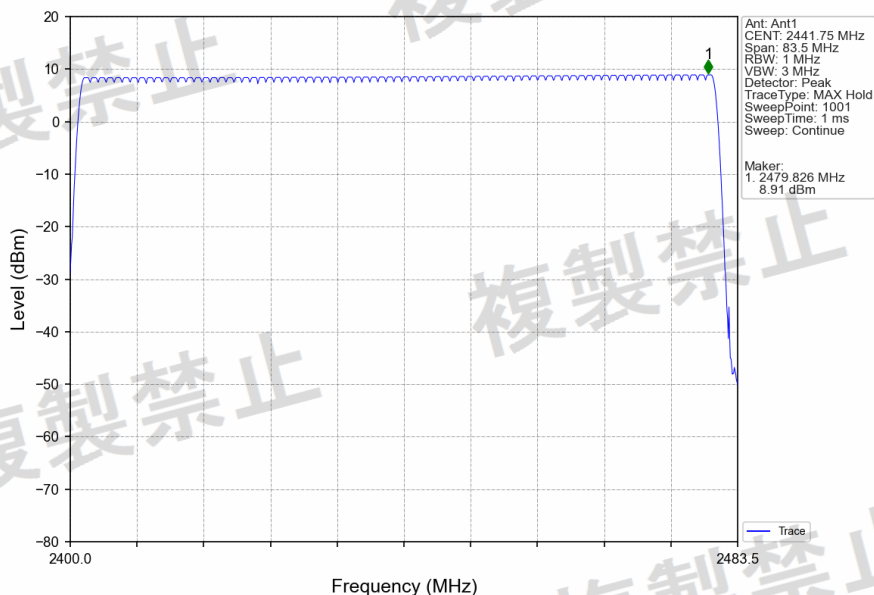
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4.2 Test Graph

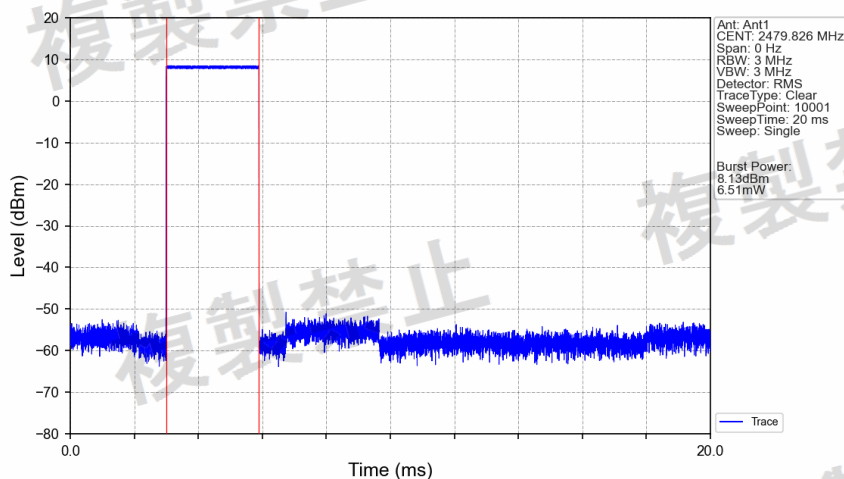
4.2.1 Power



GFSK_DH5_HOPP20_Ant1_NTNV



GFSK_DH5_HOPP20_Ant1_NTNV

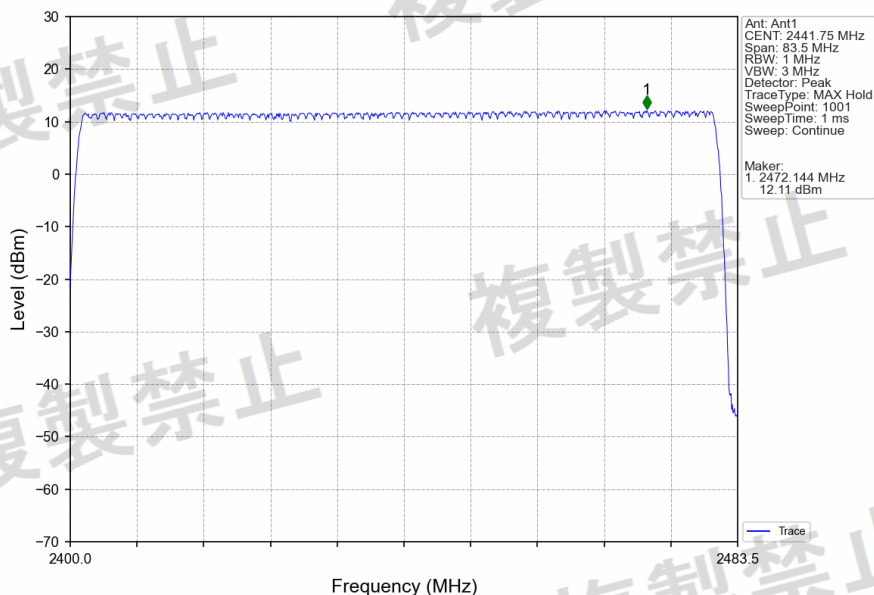


Burst No.	1
Length (ms)	2.904
Power(dBm)	8.13
Power(mW)	6.505
Remark	Max

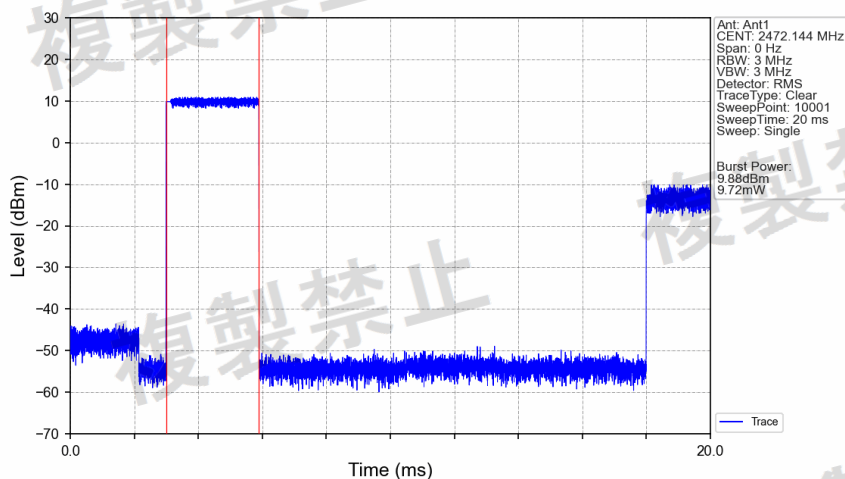
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

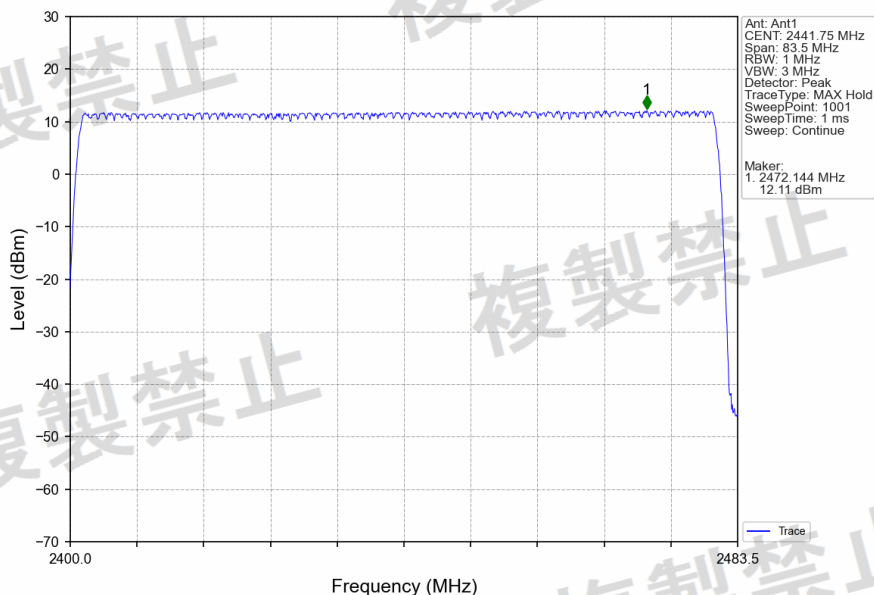


Burst No.	1
Length (ms)	2.902
Power(dBm)	9.88
Power(mW)	9.723
Remark	Max

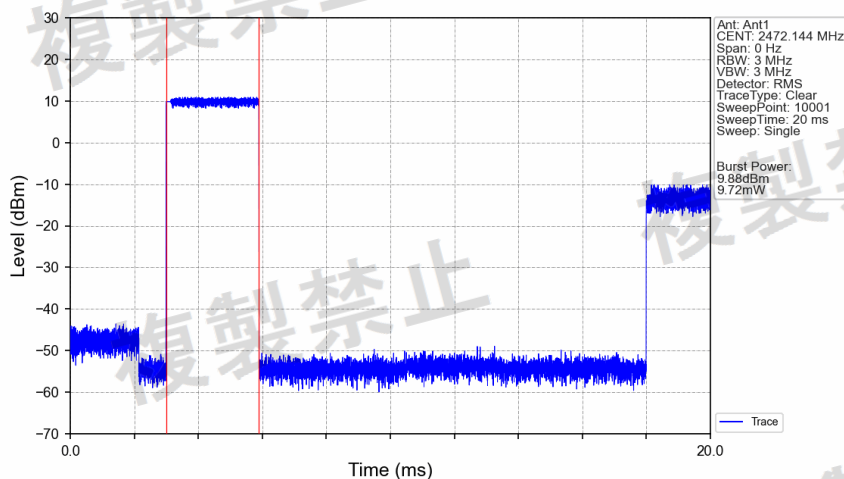
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV

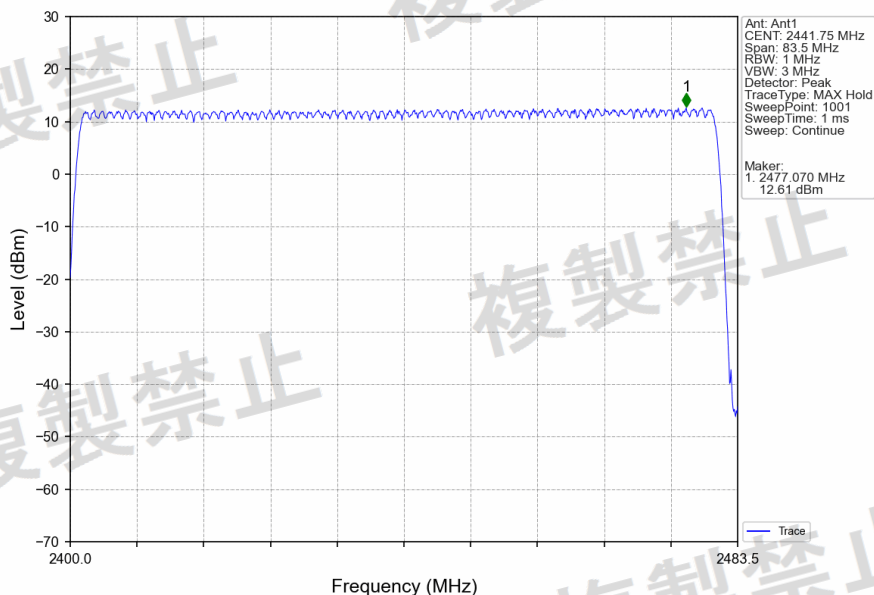


Burst No.	1
Length (ms)	2.902
Power(dBm)	9.88
Power(mW)	9.723
Remark	Max

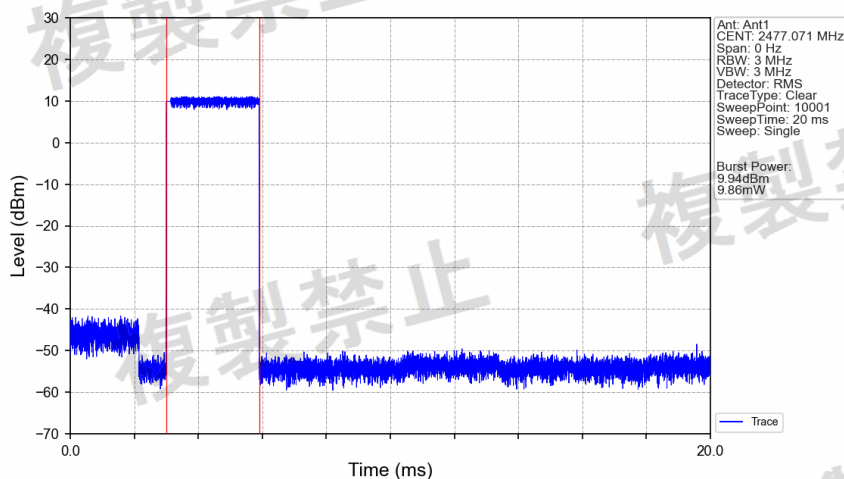
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

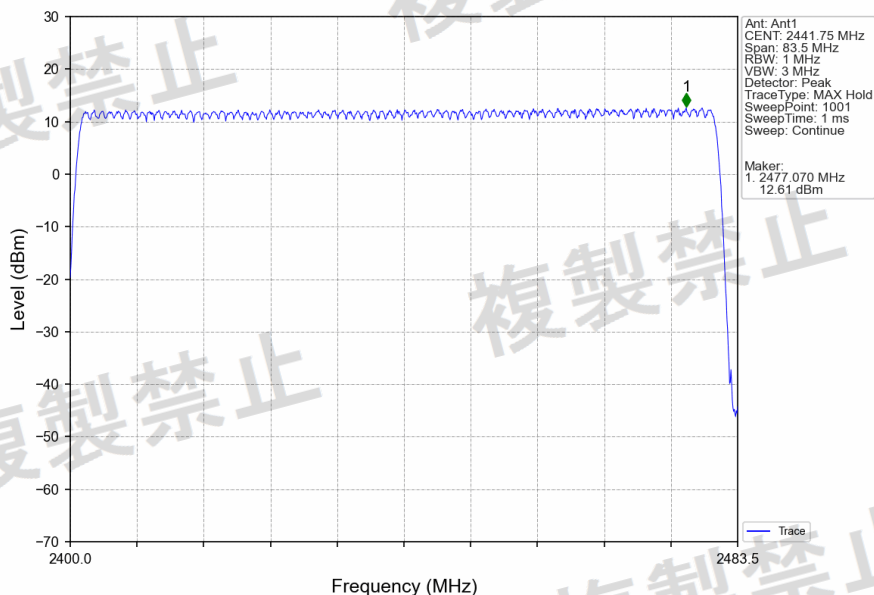


Burst No.	1
Length (ms)	2.906
Power(dBm)	9.94
Power(mW)	9.857
Remark	Max

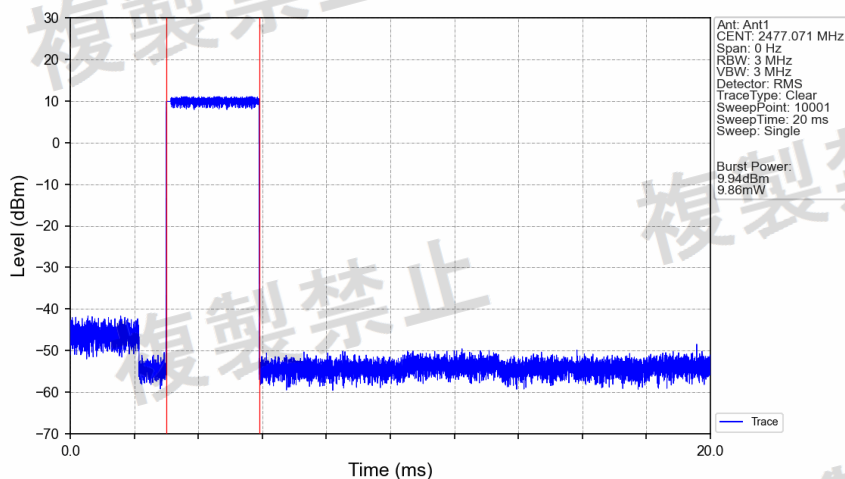
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8DPSK_3DH5_HOPP20_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV



Burst No.	1
Length (ms)	2.906
Power(dBm)	9.94
Power(mW)	9.857
Remark	Max

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5. Dwell Time

5.1 Test Result

5.1.1 Ant1

Ant1											
ENV	Mode	Tx Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	71.726	0.399	1.250	79	115.924	<=400	Pass
				DH3	71.726	1.656	2.500	79	240.564	<=400	Pass
				DH5	71.726	2.904	3.750	79	281.239	<=400	Pass
			2480	DH1	71.726	0.399	1.250	79	115.924	<=400	Pass
				DH3	71.726	1.655	2.500	79	240.418	<=400	Pass
				DH5	71.726	2.904	3.750	79	281.239	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.776	0.402	1.250	79	116.877	<=400	Pass
				2DH3	71.776	1.655	2.500	79	240.586	<=400	Pass
				2DH5	71.776	2.903	3.750	79	281.338	<=400	Pass
			2480	2DH1	71.776	0.403	1.250	79	117.168	<=400	Pass
				2DH3	71.776	1.655	2.500	79	240.586	<=400	Pass
				2DH5	71.776	2.903	3.750	79	281.338	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.809	0.403	1.250	79	117.221	<=400	Pass
				3DH3	71.809	1.654	2.500	79	240.551	<=400	Pass
				3DH5	71.809	2.905	3.750	79	281.661	<=400	Pass
			2480	3DH1	71.809	0.403	1.250	79	117.221	<=400	Pass
				3DH3	71.809	1.654	2.500	79	240.551	<=400	Pass
				3DH5	71.809	2.905	3.750	79	281.661	<=400	Pass

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5.1.2 Ant1_HOPP20

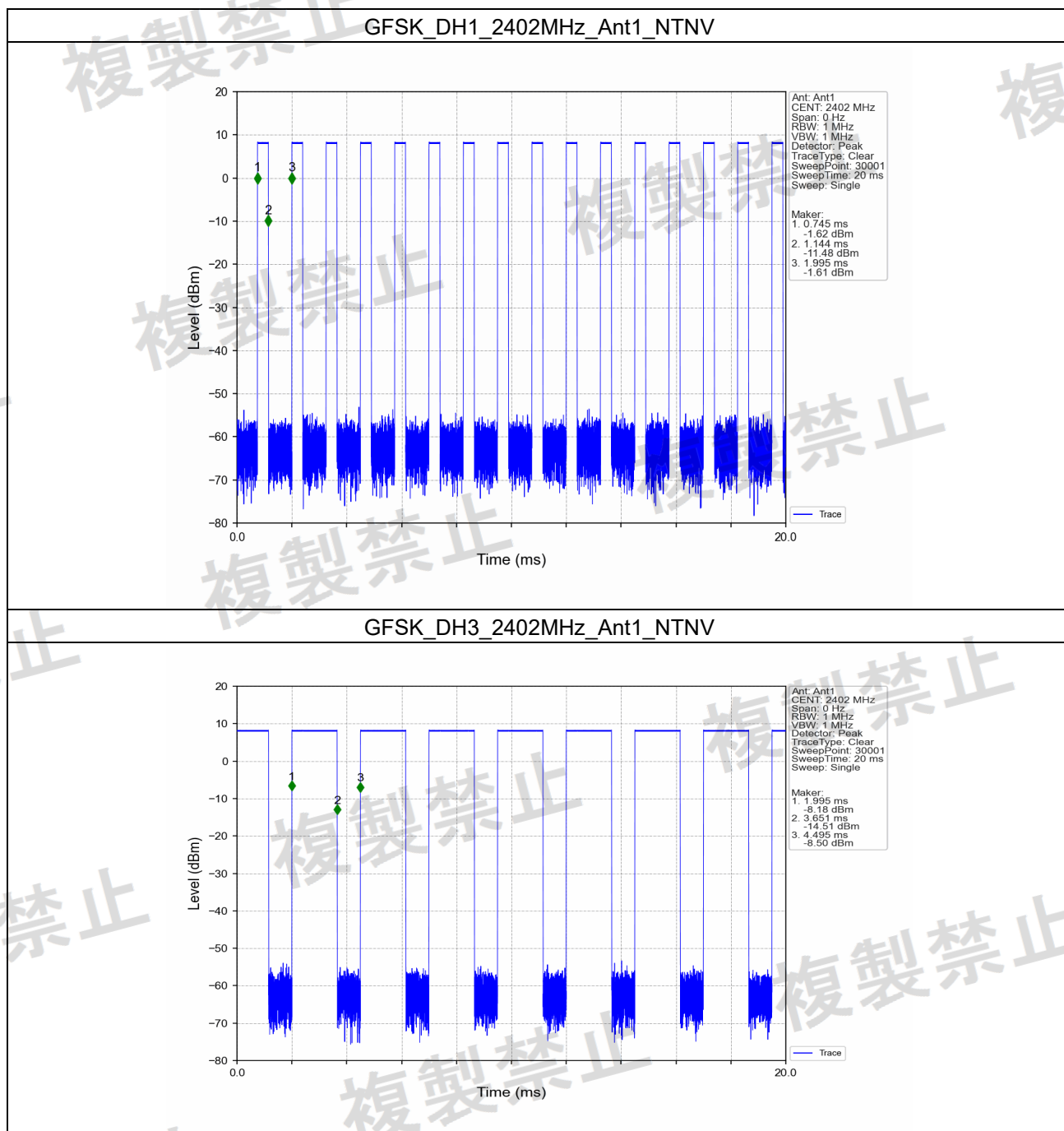
Ant1_HOPP20											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	18.574	0.399	1.250	20	118.576	<=400	Pass
				DH3	18.574	1.656	2.500	20	246.068	<=400	Pass
				DH5	18.574	2.904	3.750	20	287.674	<=400	Pass
			2480	DH1	18.574	0.399	1.250	20	118.576	<=400	Pass
				DH3	18.574	1.655	2.500	20	245.920	<=400	Pass
				DH5	18.574	2.904	3.750	20	287.674	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.671	0.402	1.250	20	120.092	<=400	Pass
				2DH3	18.671	1.655	2.500	20	247.204	<=400	Pass
				2DH5	18.671	2.903	3.750	20	289.077	<=400	Pass
			2480	2DH1	18.671	0.403	1.250	20	120.391	<=400	Pass
				2DH3	18.671	1.655	2.500	20	247.204	<=400	Pass
				2DH5	18.671	2.903	3.750	20	289.077	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.643	0.403	1.250	20	120.210	<=400	Pass
				3DH3	18.643	1.654	2.500	20	246.684	<=400	Pass
				3DH5	18.643	2.905	3.750	20	288.842	<=400	Pass
			2480	3DH1	18.643	0.403	1.250	20	120.210	<=400	Pass
				3DH3	18.643	1.654	2.500	20	246.684	<=400	Pass
				3DH5	18.643	2.905	3.750	20	288.842	<=400	Pass

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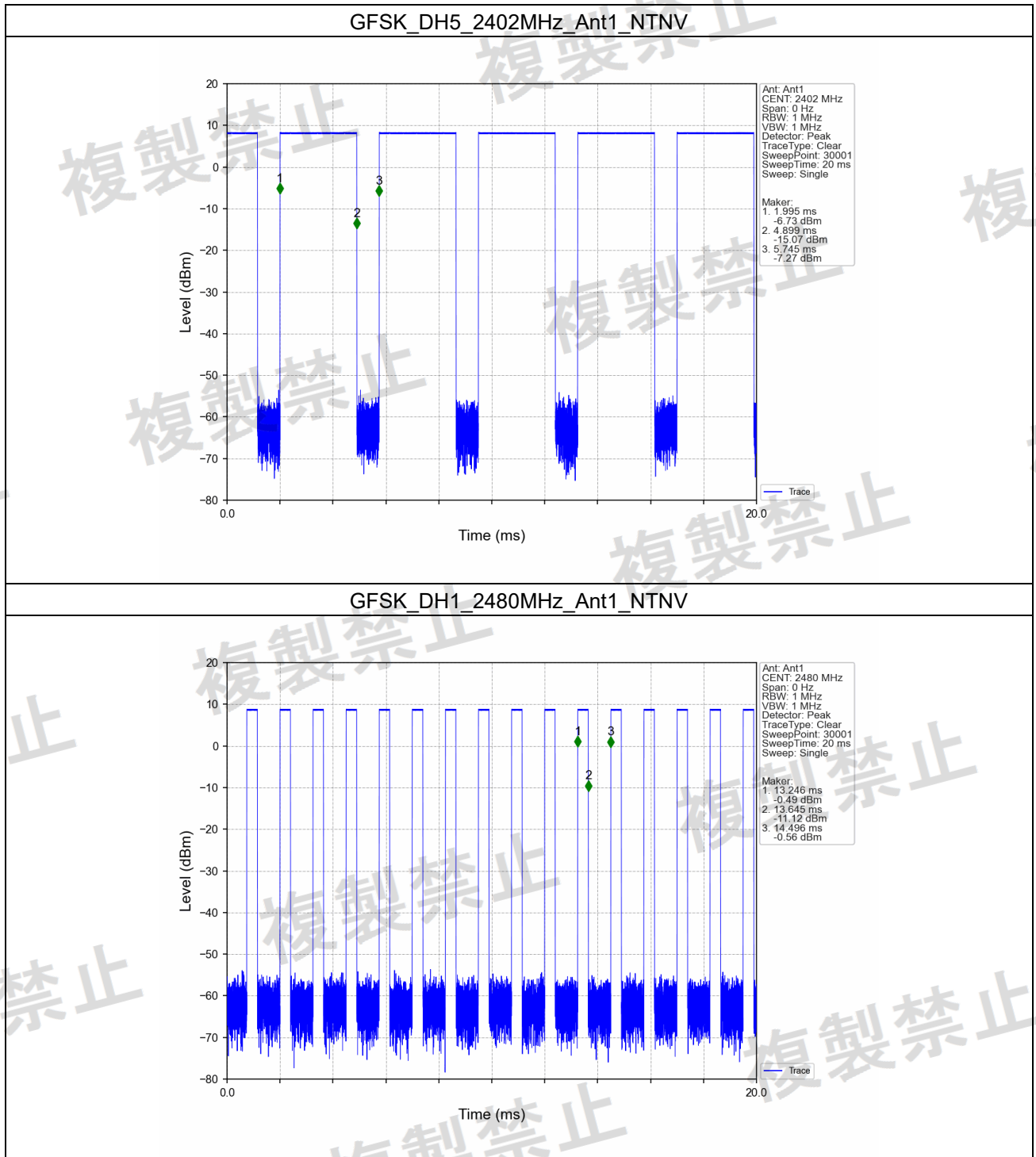
5.2 Test Graph

5.2.1 Ant1



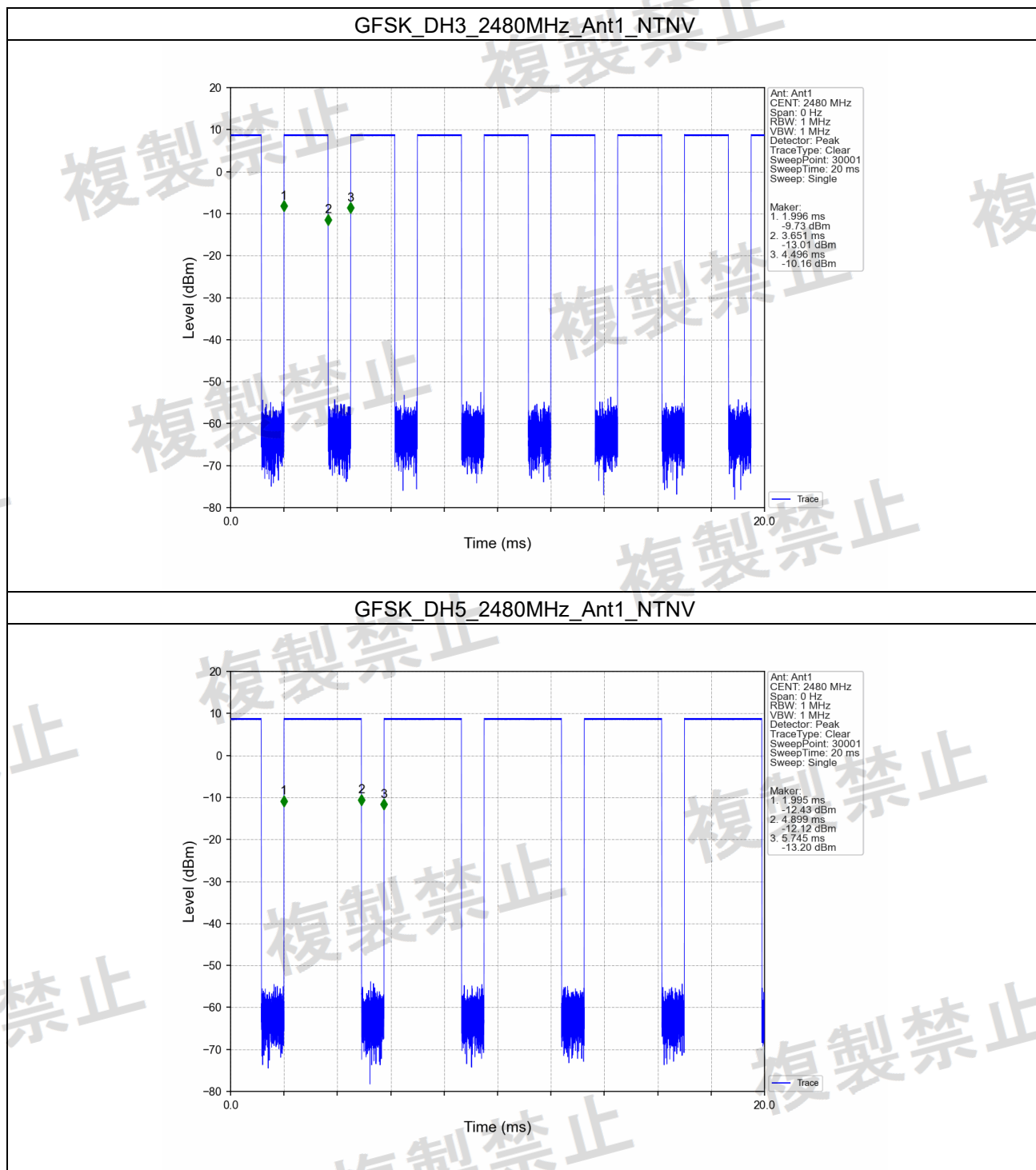
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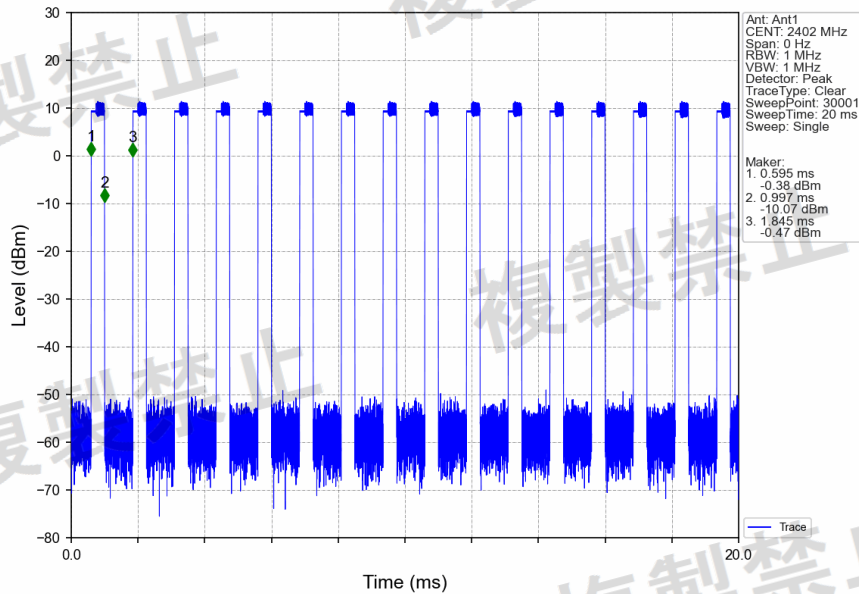
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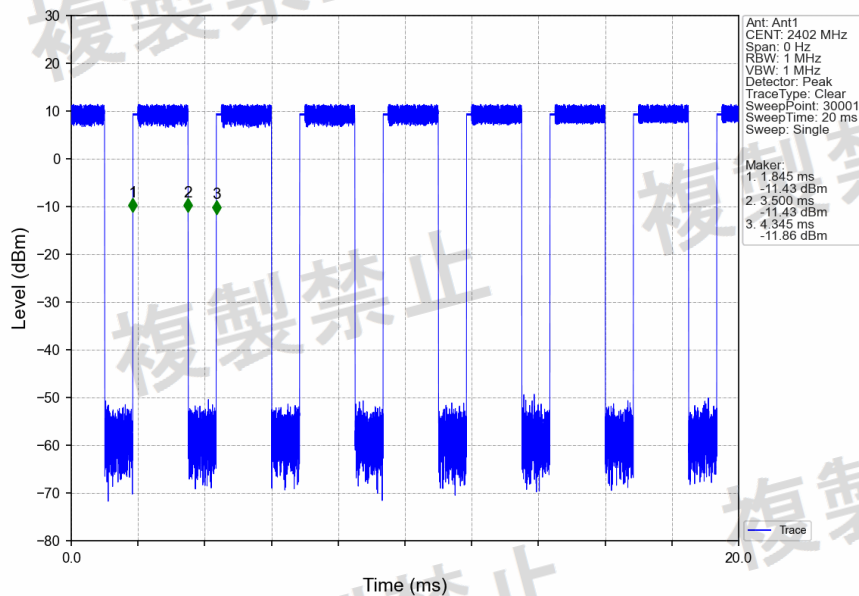
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



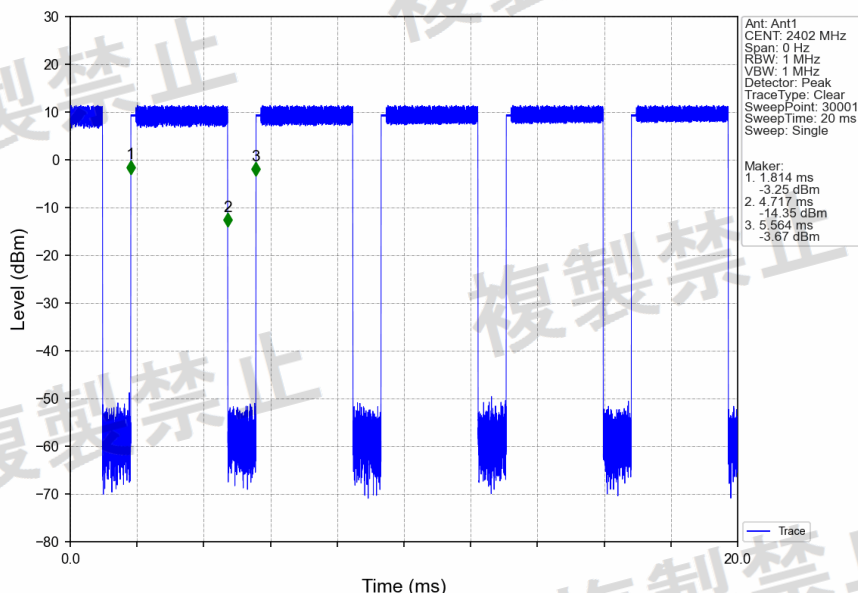
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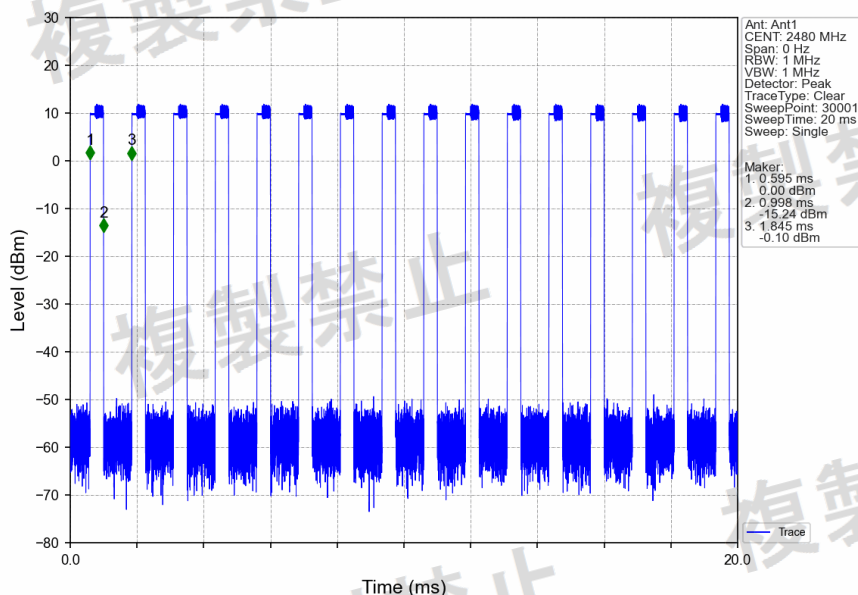
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



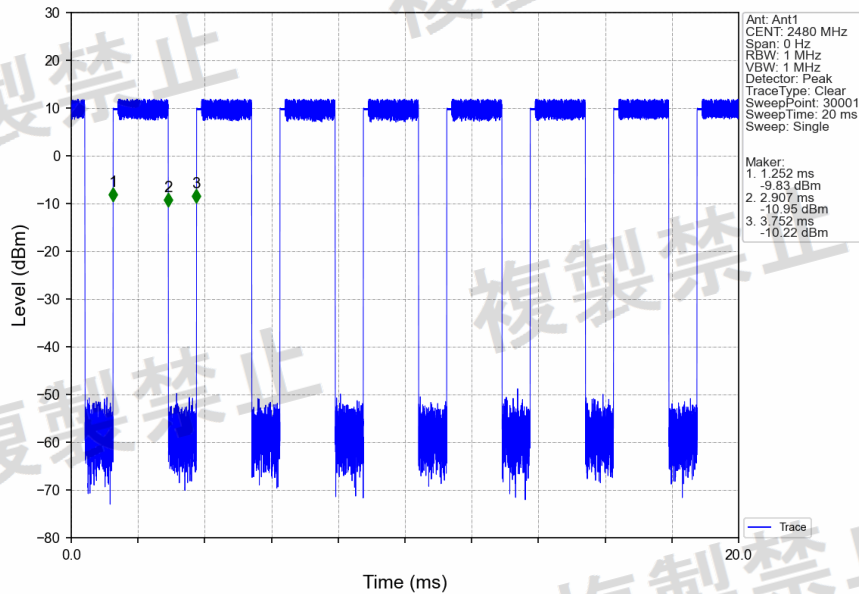
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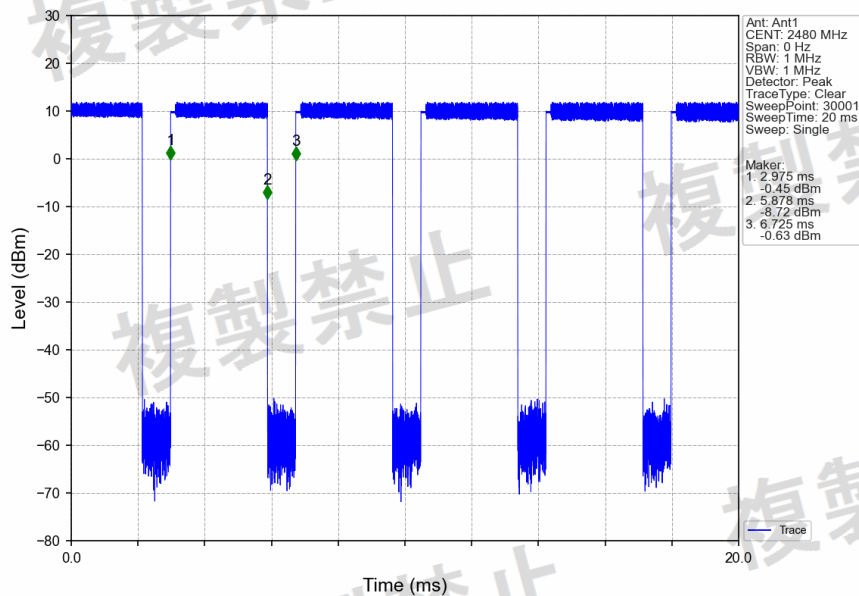
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



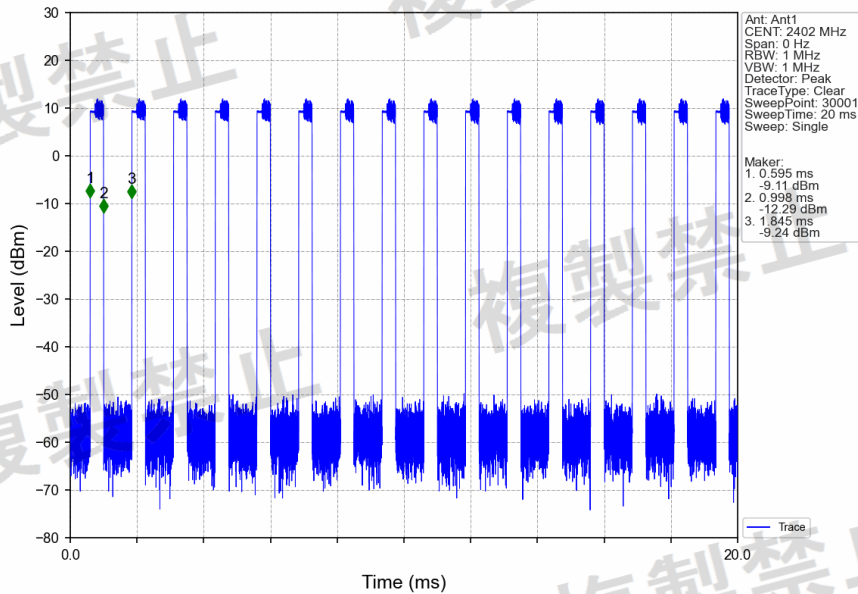
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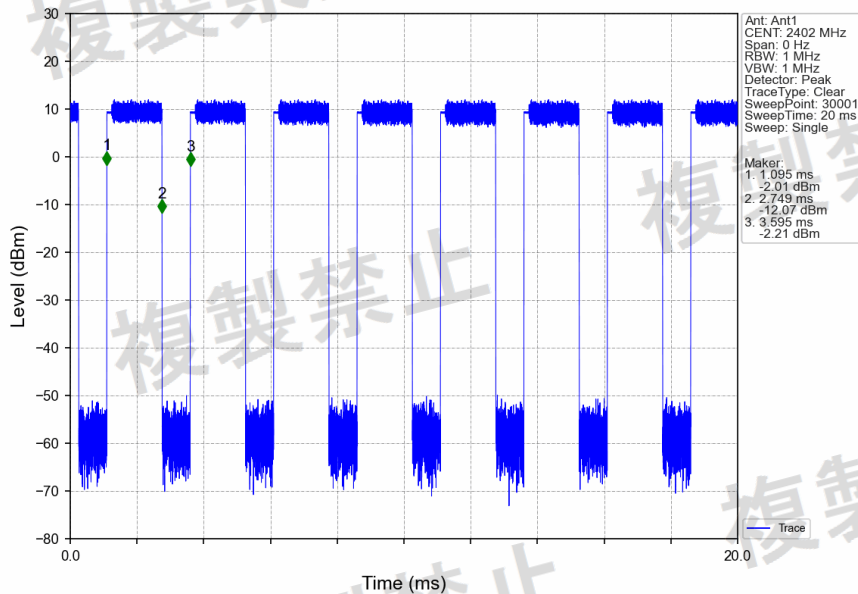
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8DPSK_3DH1_2402MHz_Ant1_NTNV



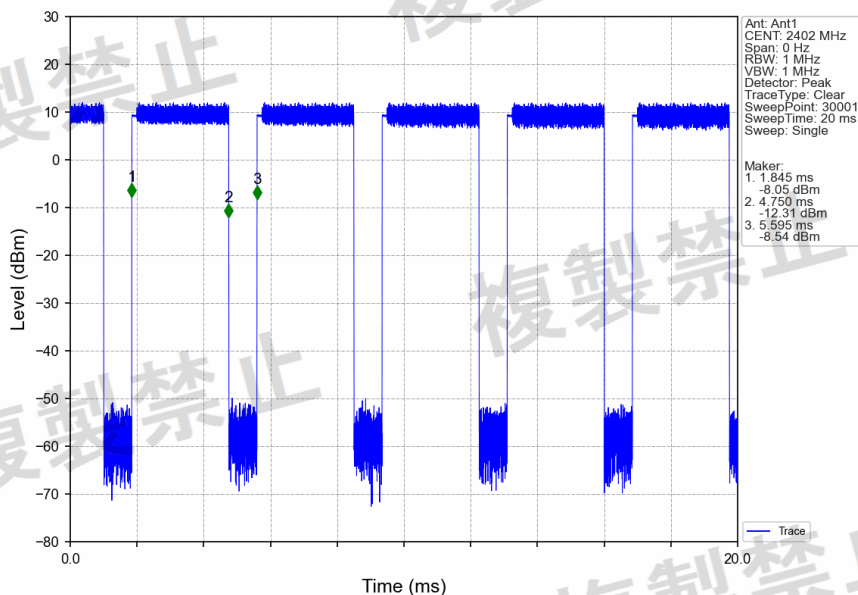
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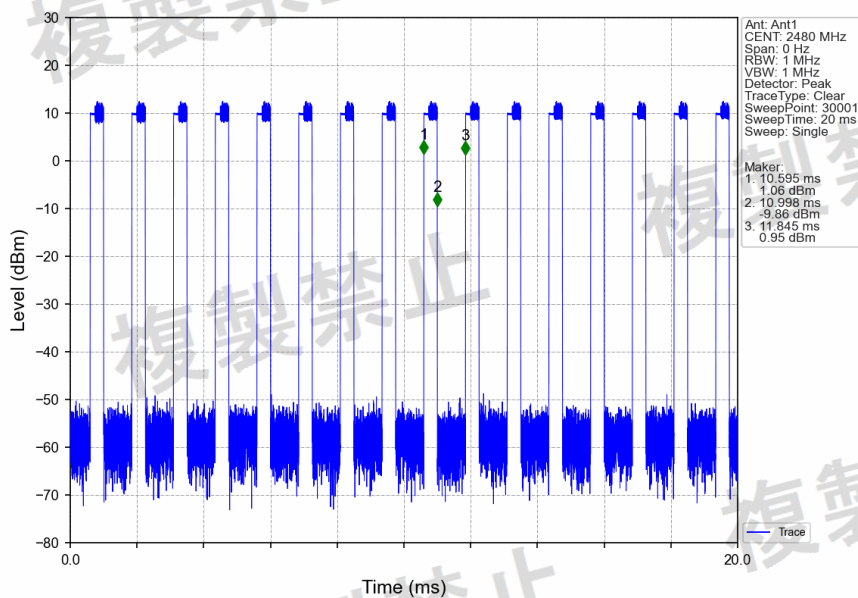
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8DPSK_3DH5_2402MHz_Ant1_NTNV



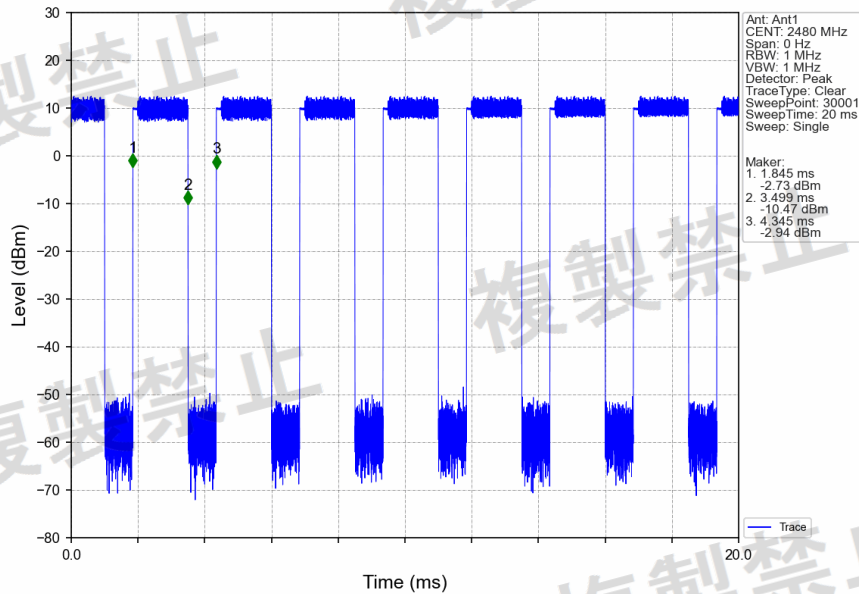
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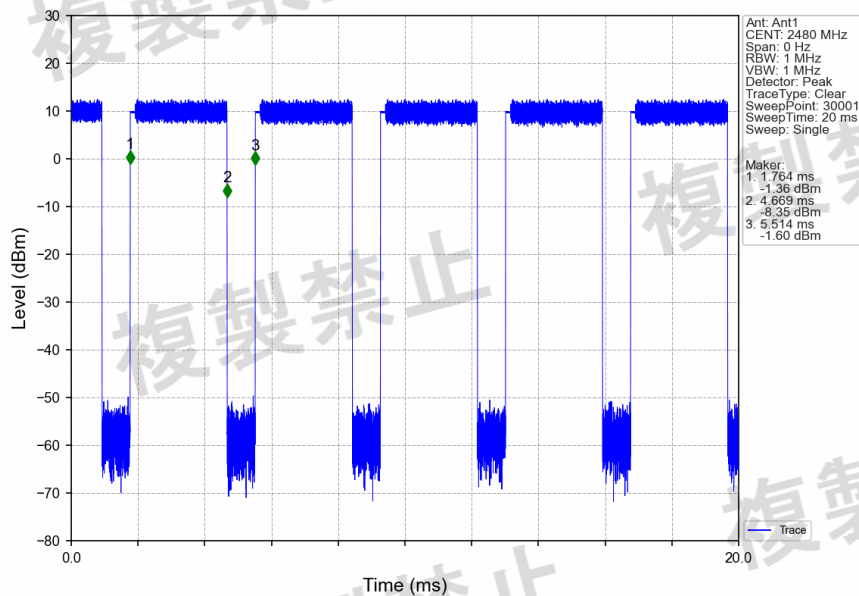
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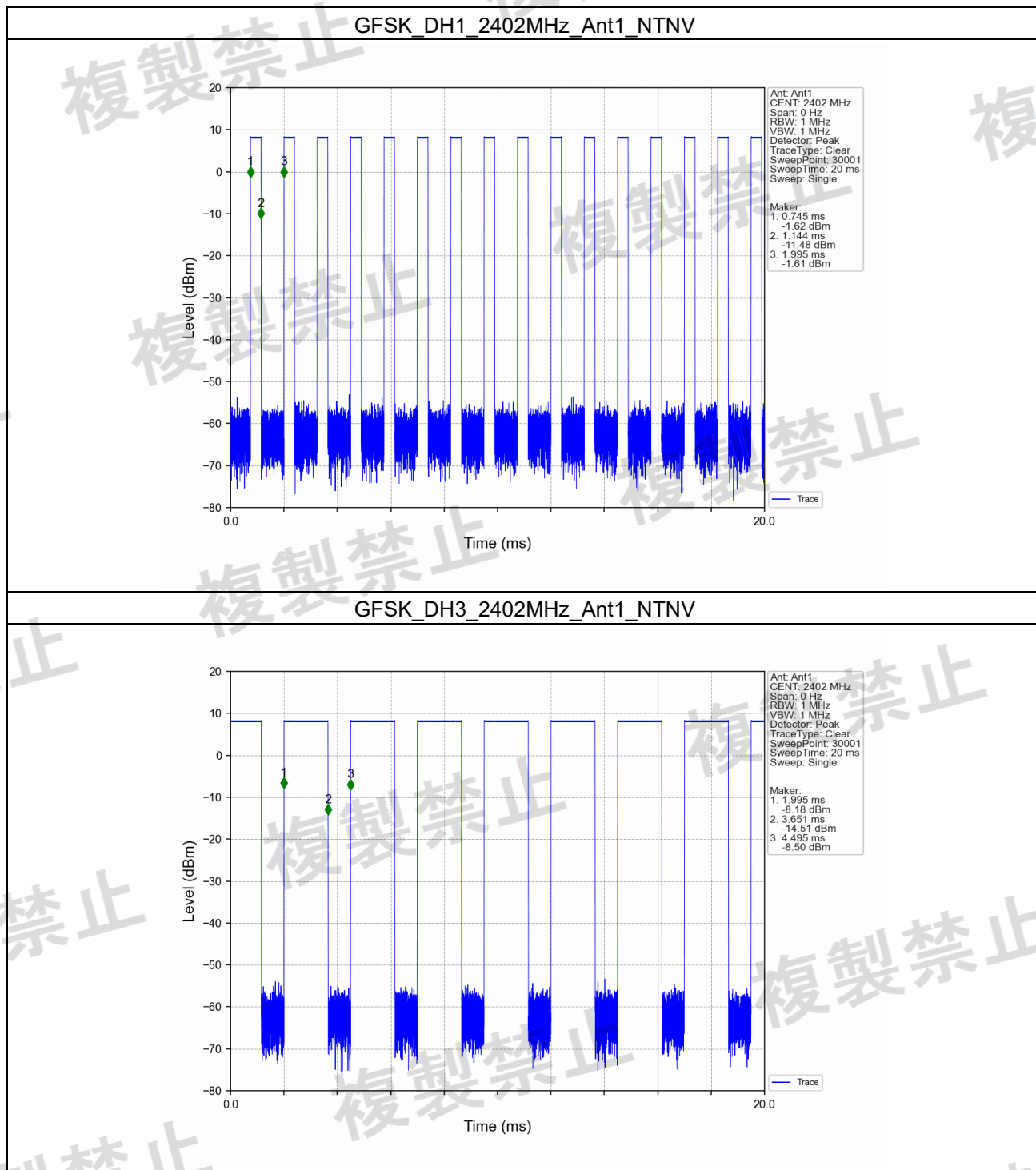
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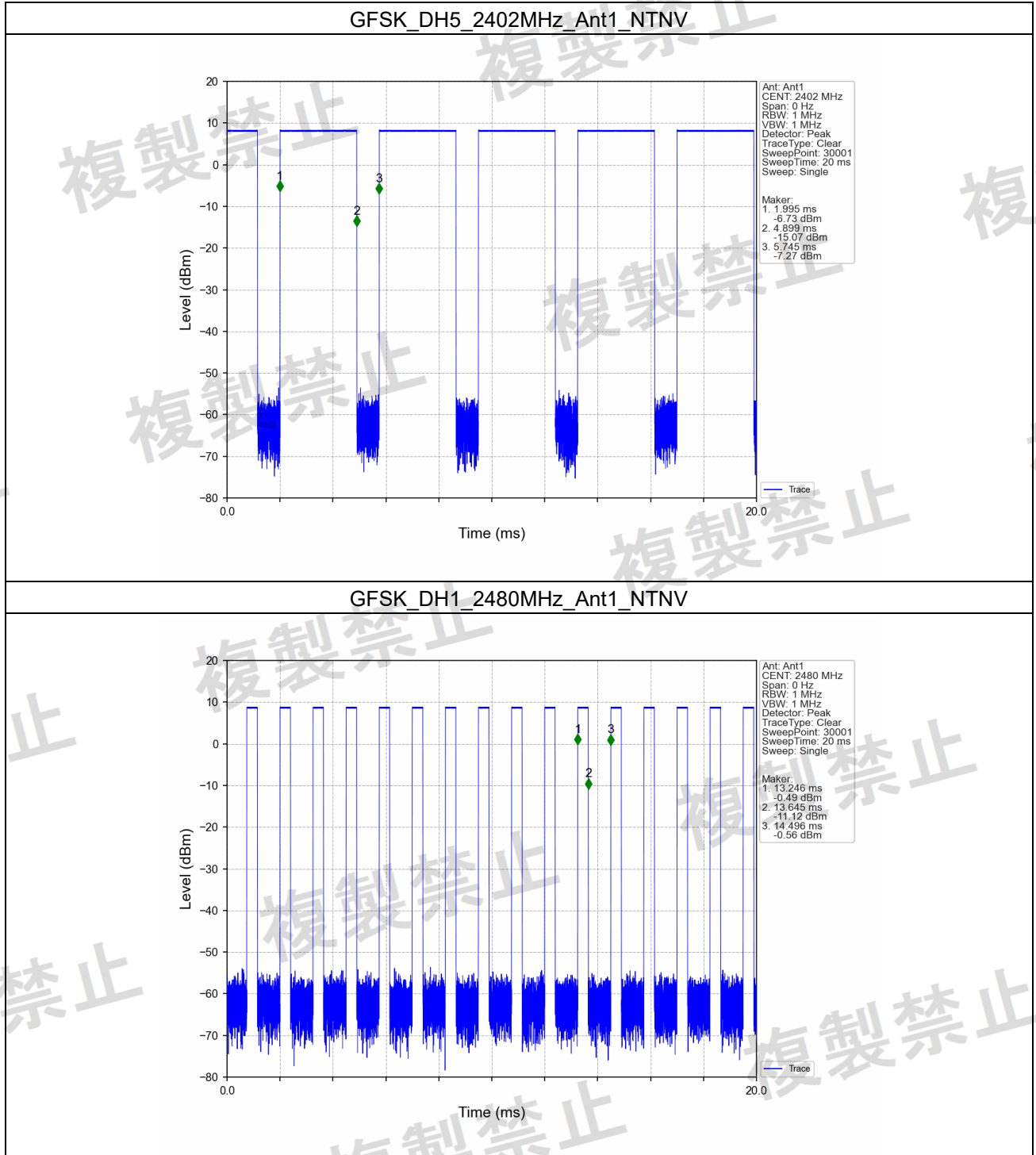


5.2.2 Ant1_HOPP20



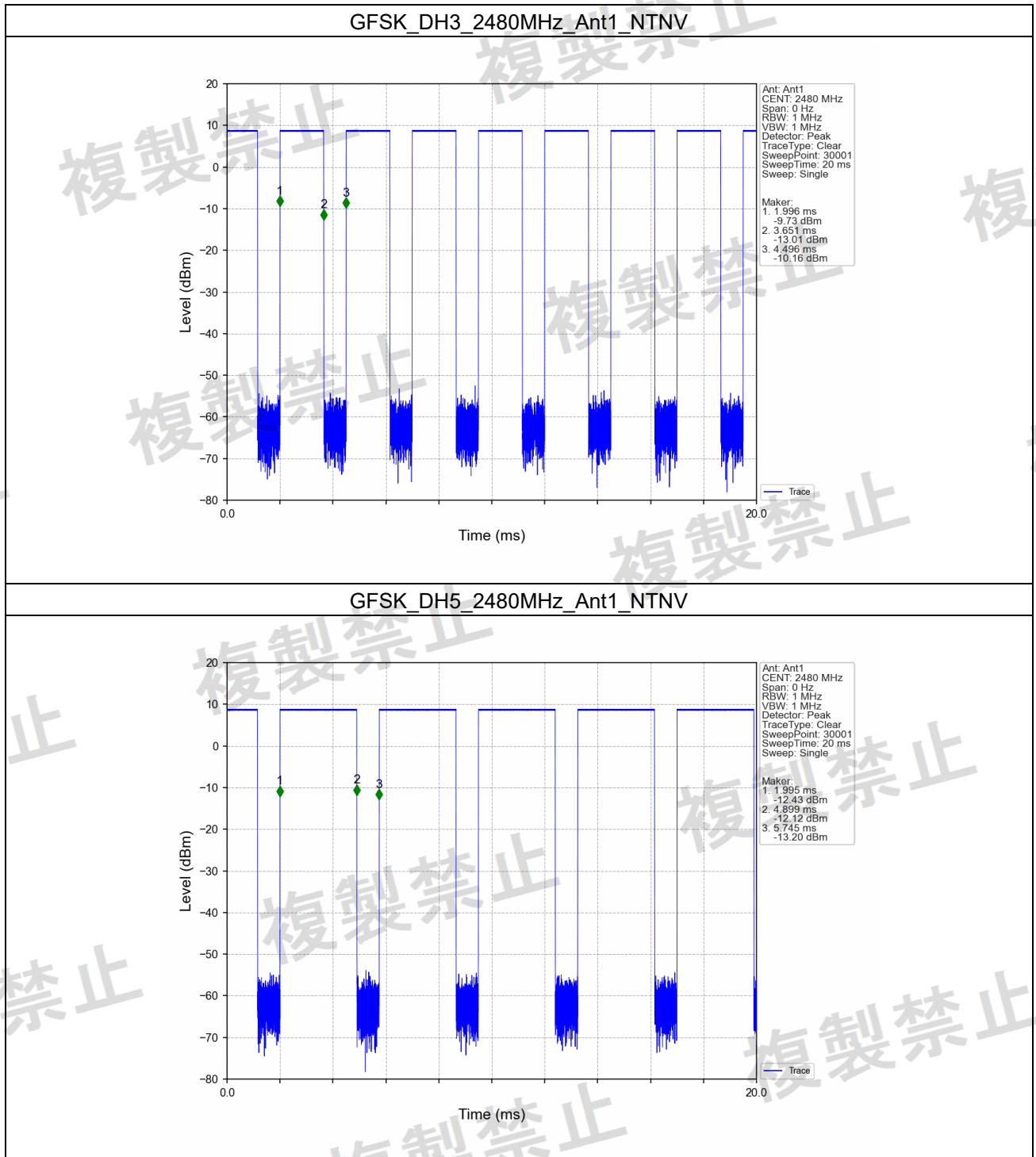
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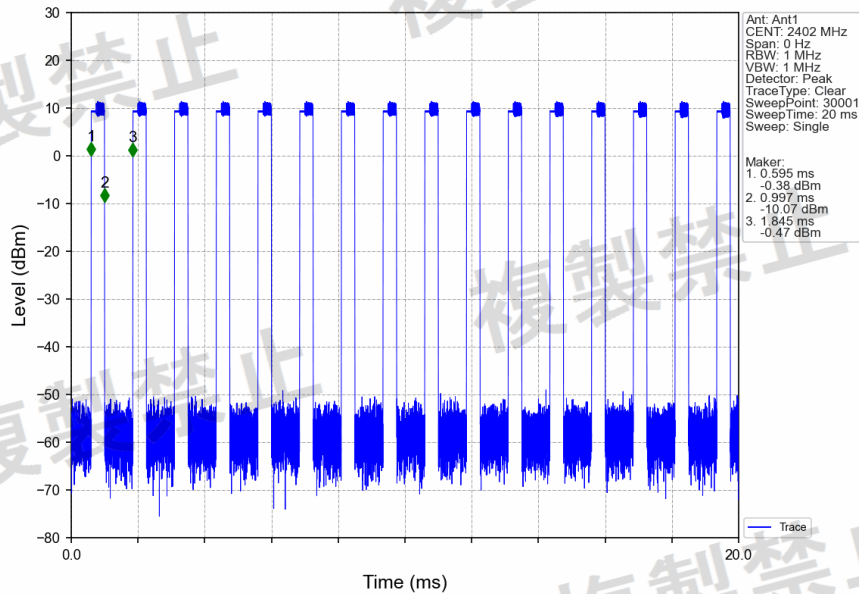
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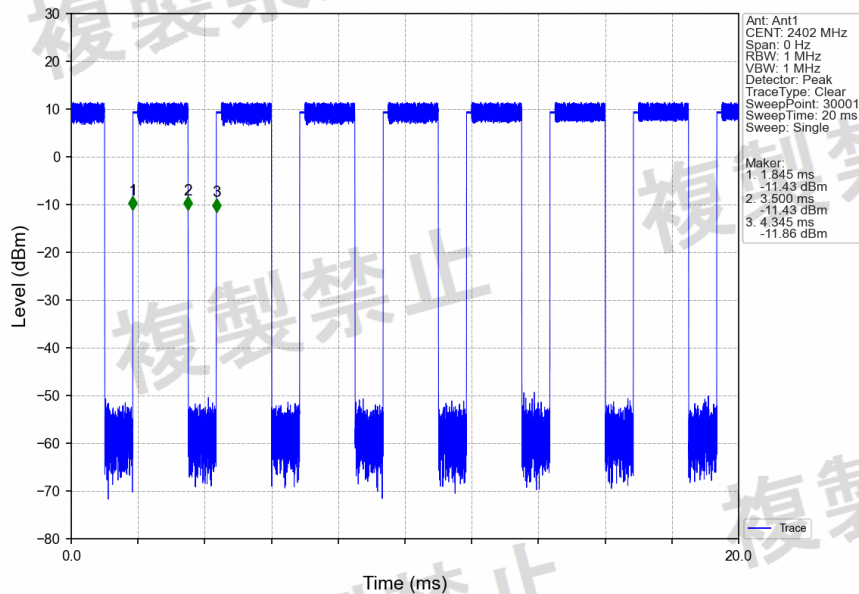
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



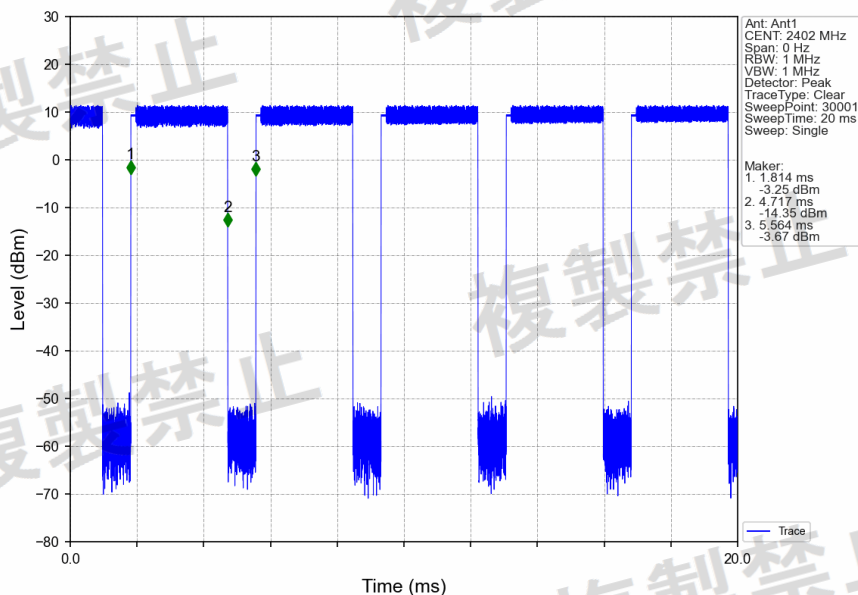
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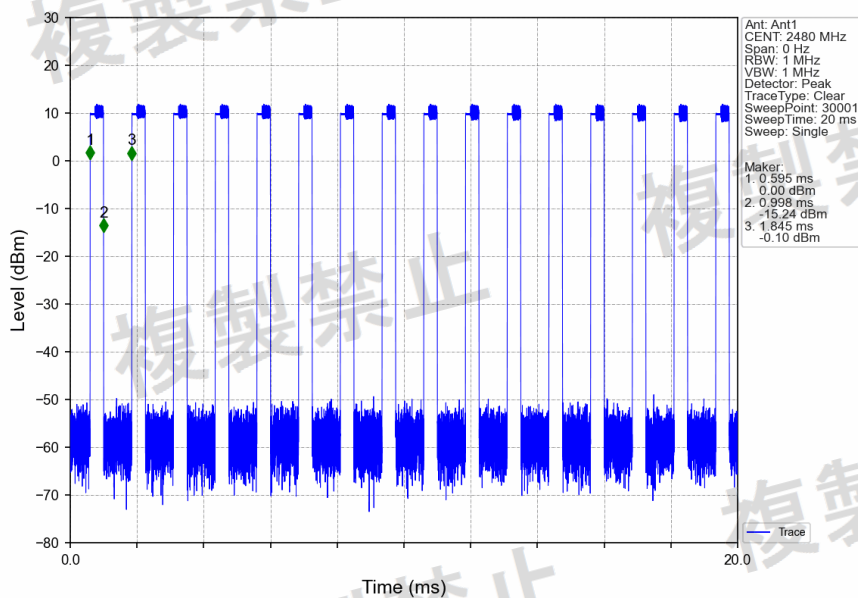
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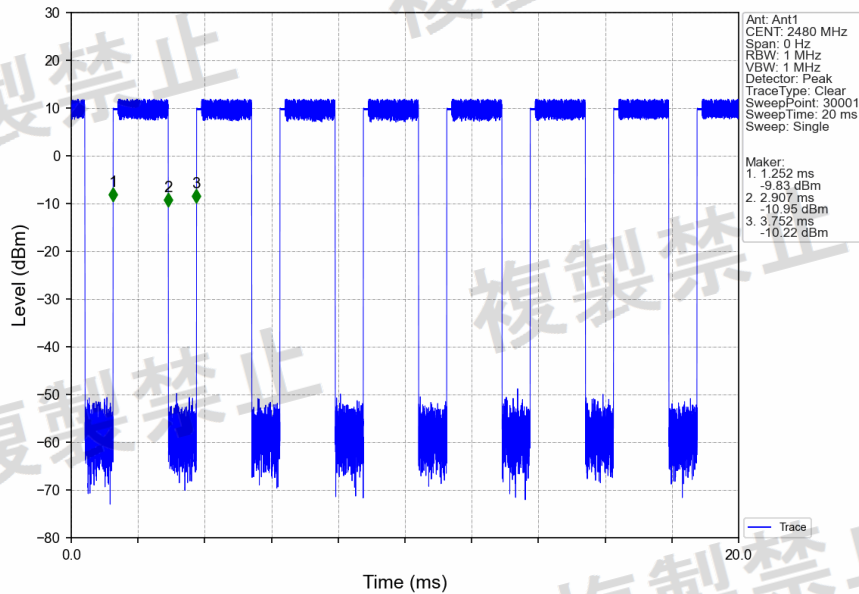
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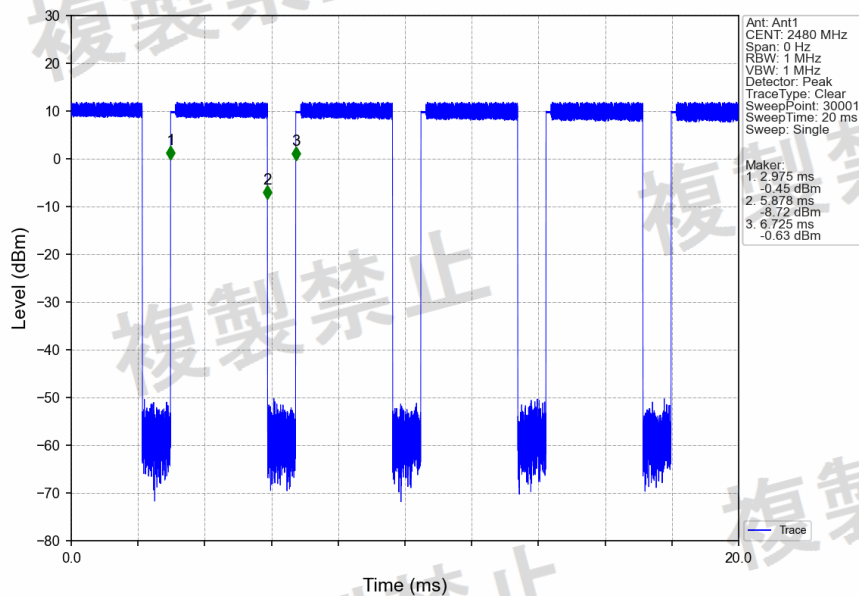
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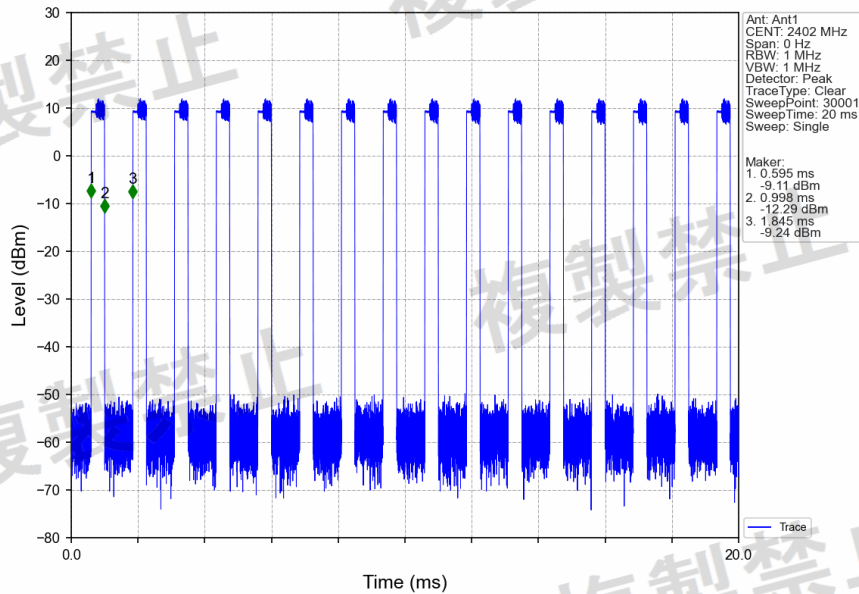
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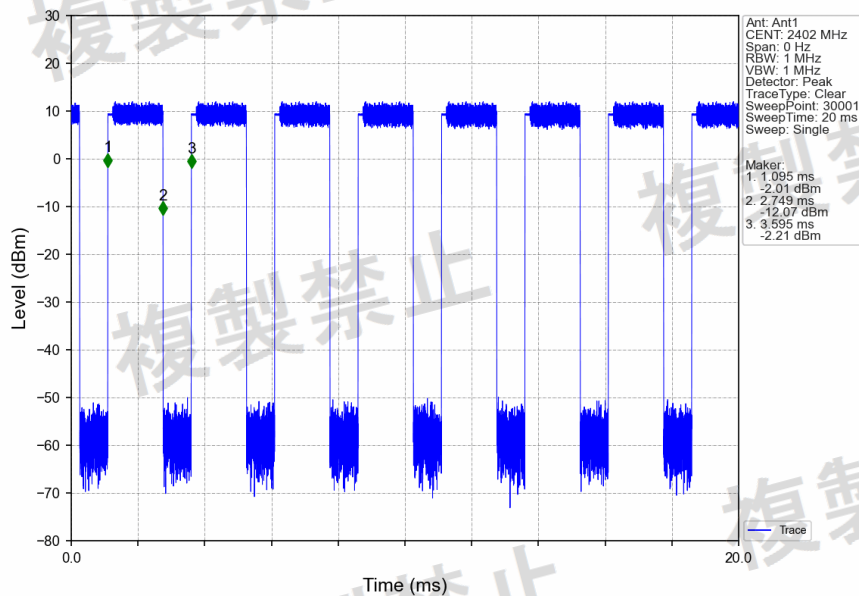
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8DPSK_3DH1_2402MHz_Ant1_NTNV



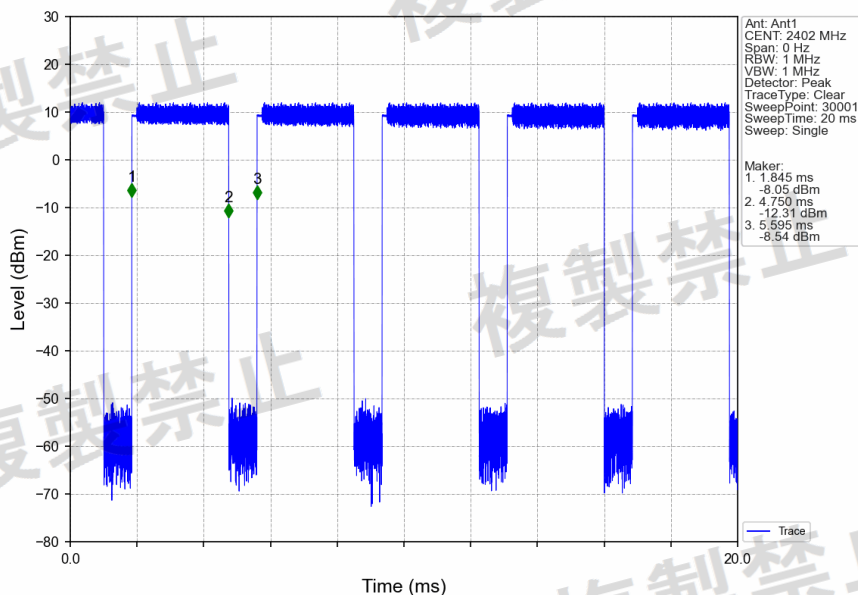
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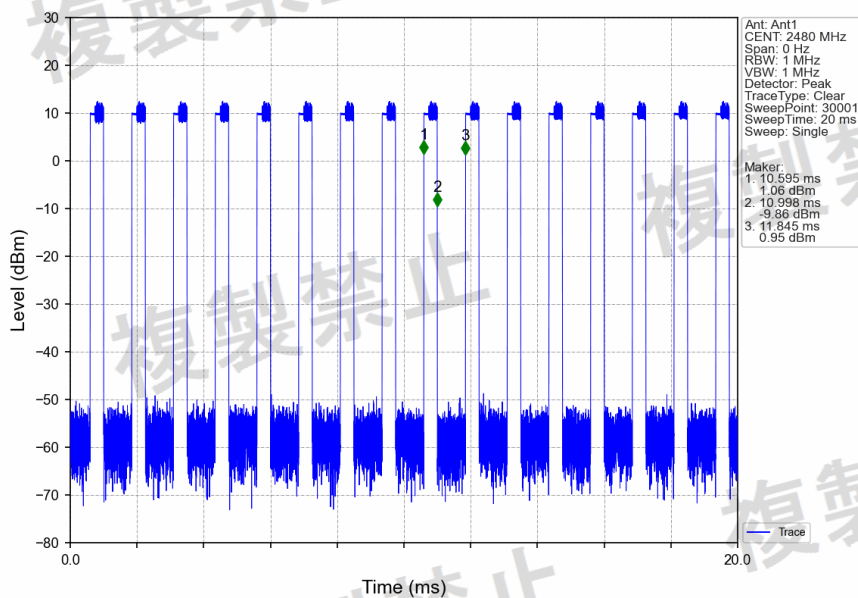
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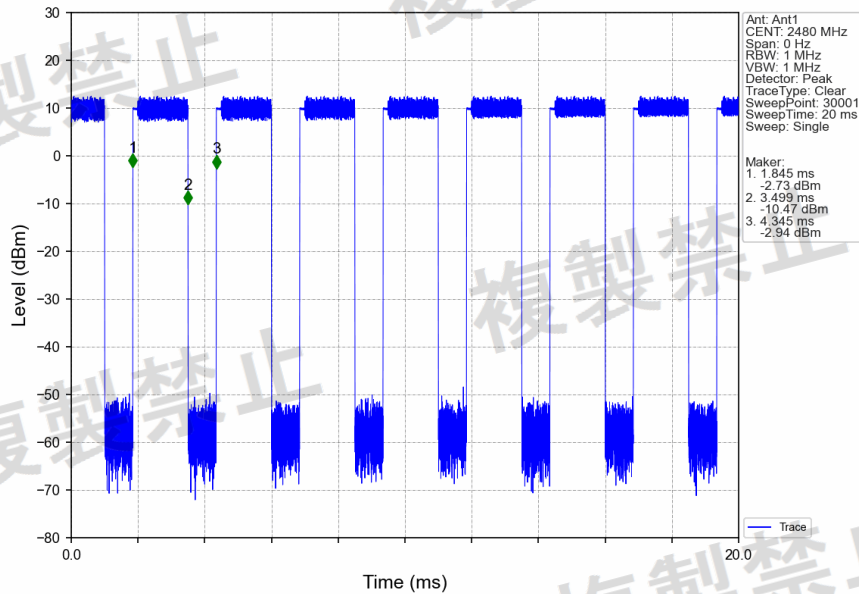
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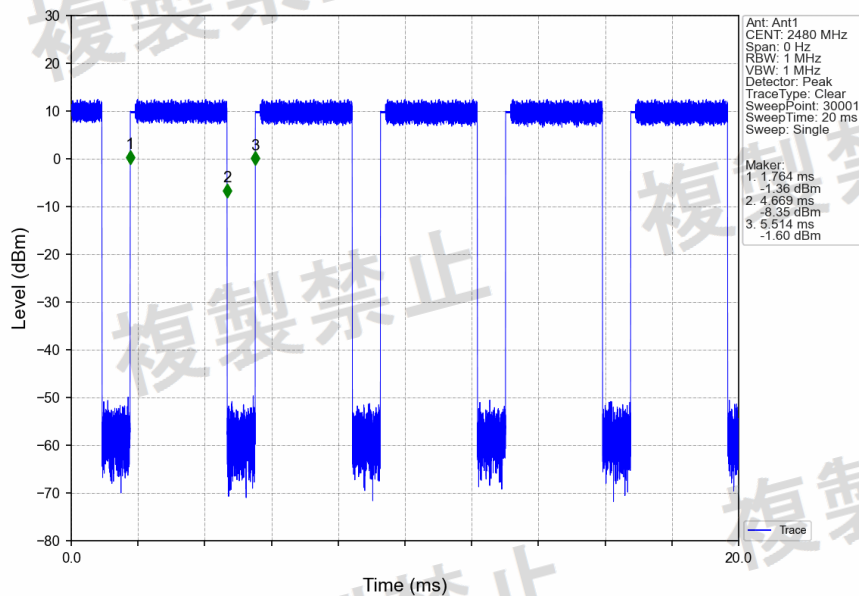
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8DPSK_3DH3_2480MHz_Ant1_NTNV



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6. Spurious Emission Intensity

6.1 Test Result

6.1.1 TxSe_NTNV

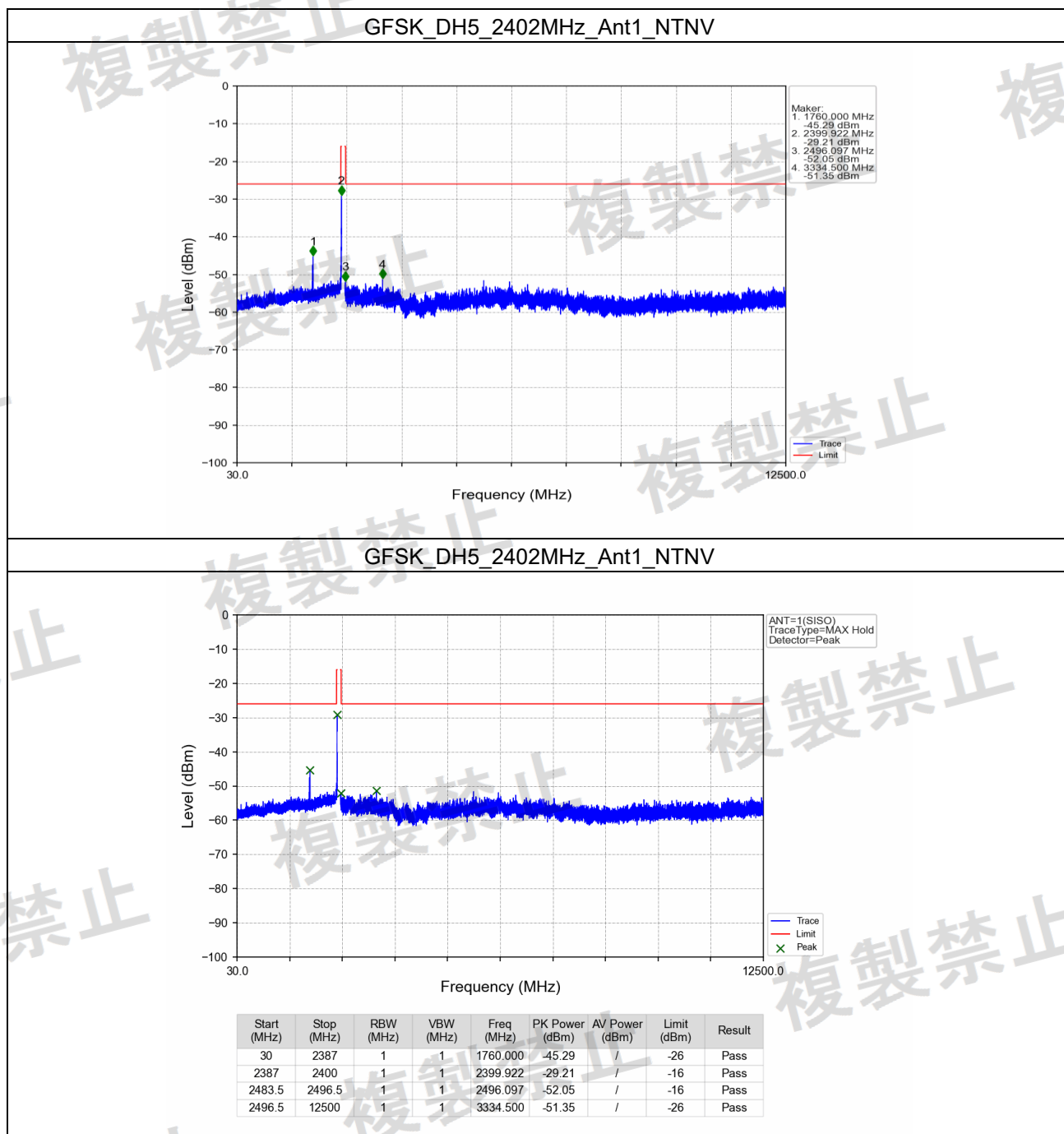
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	1760	-45.29	0.030	/	/	2.5	Pass
				2387	2400	2399.922	-29.21	1.199	/	/	25	Pass
				2483.5	2496.5	2496.097	-52.05	0.006	/	/	25	Pass
				2496.5	12500	3334.5	-51.35	0.007	/	/	2.5	Pass
		2480	1	30	2387	1770.5	-48.00	0.016	/	/	2.5	Pass
				2387	2400	2390.614	-51.32	0.007	/	/	25	Pass
				2483.5	2496.5	2483.63	-40.91	0.081	/	/	25	Pass
				2496.5	12500	2688	-51.89	0.006	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	1761.5	-46.62	0.022	/	/	2.5	Pass
				2387	2400	2399.987	-22.32	5.861	/	/	25	Pass
				2483.5	2496.5	2493.835	-47.75	0.017	/	/	25	Pass
				2496.5	12500	2728.5	-47.73	0.017	/	/	2.5	Pass
		2480	1	30	2387	1761.5	-43.65	0.043	/	/	2.5	Pass
				2387	2400	2389.197	-47.91	0.016	/	/	25	Pass
				2483.5	2496.5	2483.656	-41.56	0.070	/	/	25	Pass
				2496.5	12500	6255	-47.67	0.017	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2365	-47.48	0.018	/	/	2.5	Pass
				2387	2400	2399.987	-21.04	7.870	/	/	25	Pass
				2483.5	2496.5	2486.555	-48.17	0.015	/	/	25	Pass
				2496.5	12500	6628	-47.90	0.016	/	/	2.5	Pass
		2480	1	30	2387	2162.5	-47.69	0.017	/	/	2.5	Pass
				2387	2400	2395.19	-47.80	0.017	/	/	25	Pass
				2483.5	2496.5	2483.617	-41.46	0.071	/	/	25	Pass
				2496.5	12500	3196	-47.65	0.017	/	/	2.5	Pass

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6.2 Test Graph

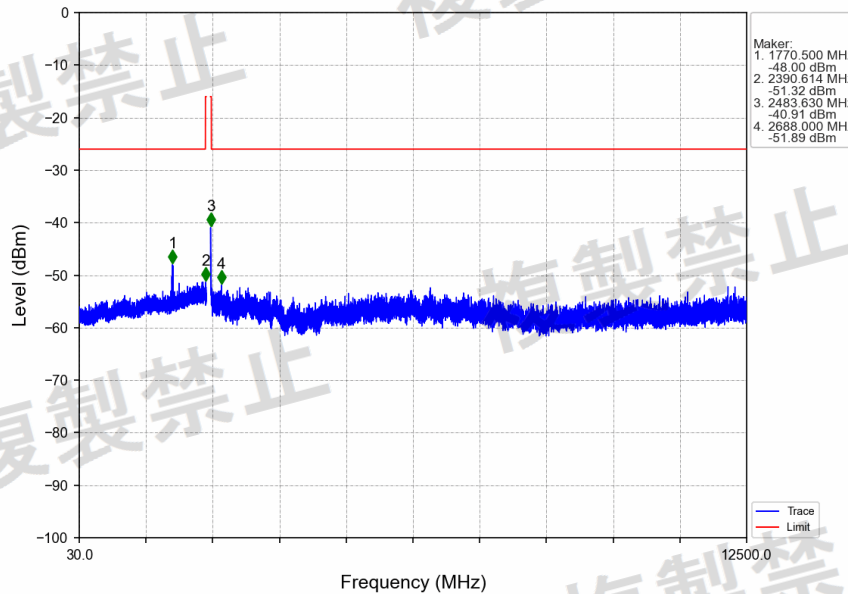
6.2.1 TxSe_NTNV



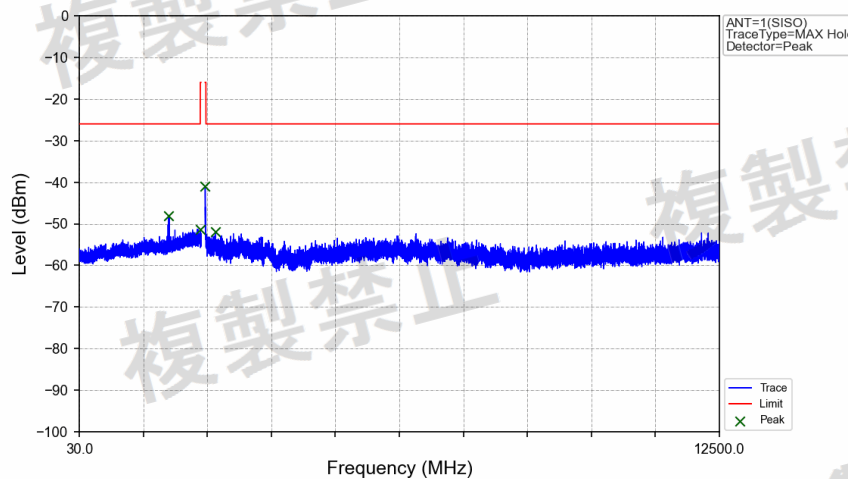
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GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

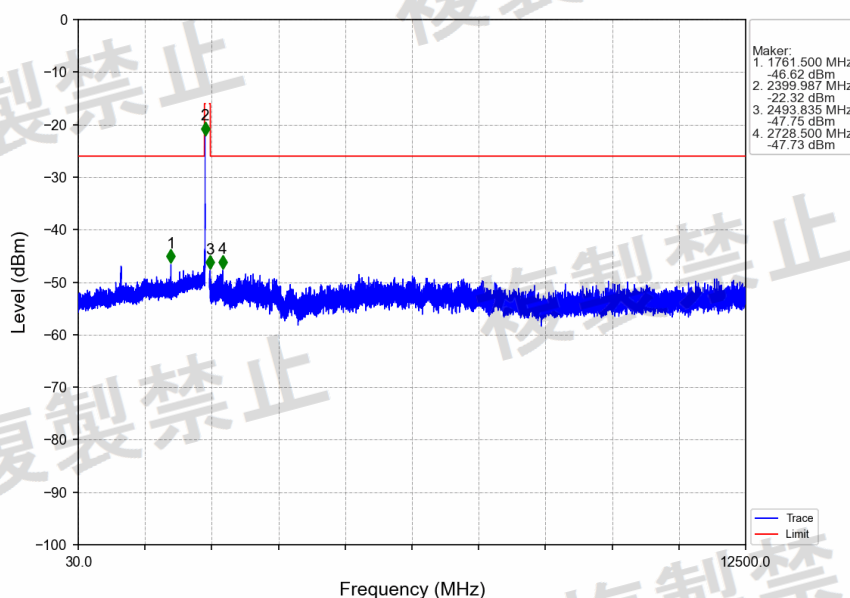


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1770.500	-48.00	/	-26	Pass
2387	2400	1	1	2390.614	-51.32	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-40.91	/	-16	Pass
2496.5	12500	1	1	2688.000	-51.89	/	-26	Pass

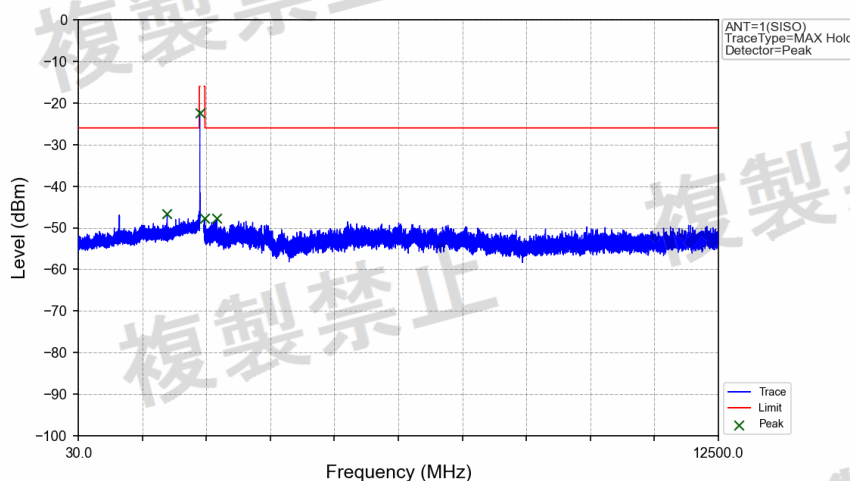
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

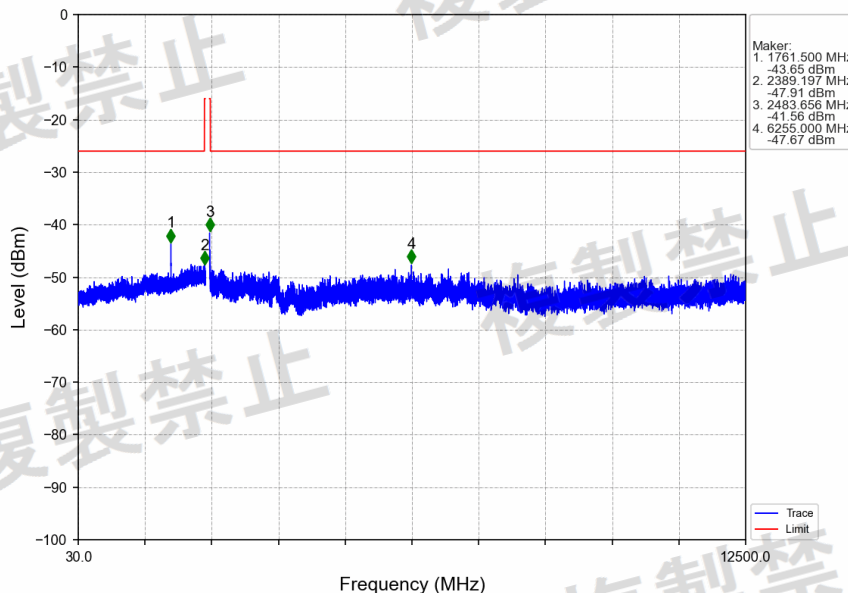


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1761.500	-46.62	/	-26	Pass
2387	2400	1	1	2399.987	-22.32	/	-16	Pass
2483.5	2496.5	1	1	2493.835	-47.75	/	-16	Pass
2496.5	12500	1	1	2728.500	-47.73	/	-26	Pass

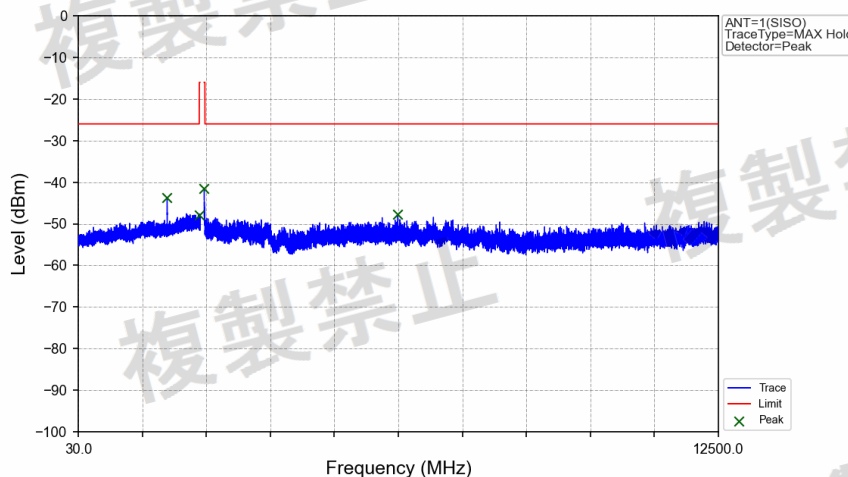
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

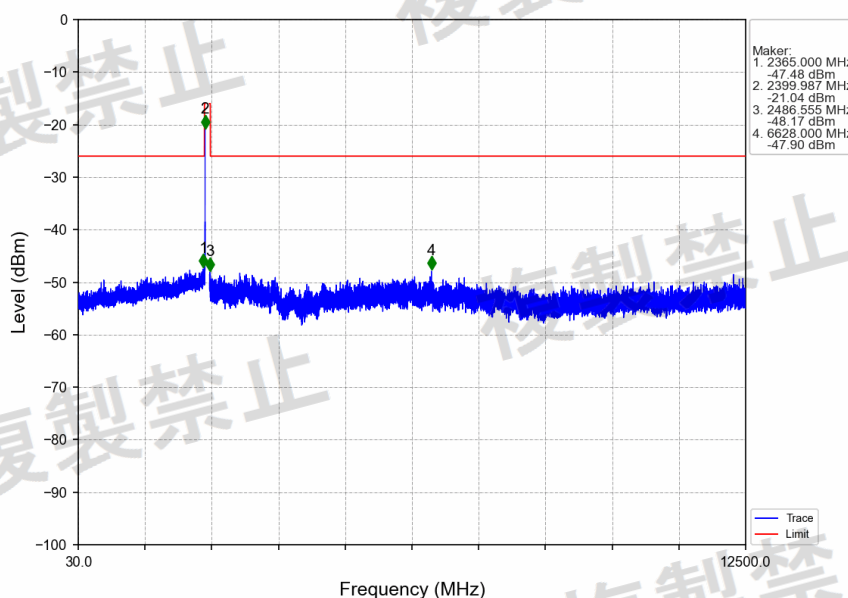


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1761.500	-43.65	/	-26	Pass
2387	2400	1	1	2389.197	-47.91	/	-16	Pass
2483.5	2496.5	1	1	2483.656	-41.56	/	-16	Pass
2496.5	12500	1	1	6255.000	-47.67	/	-26	Pass

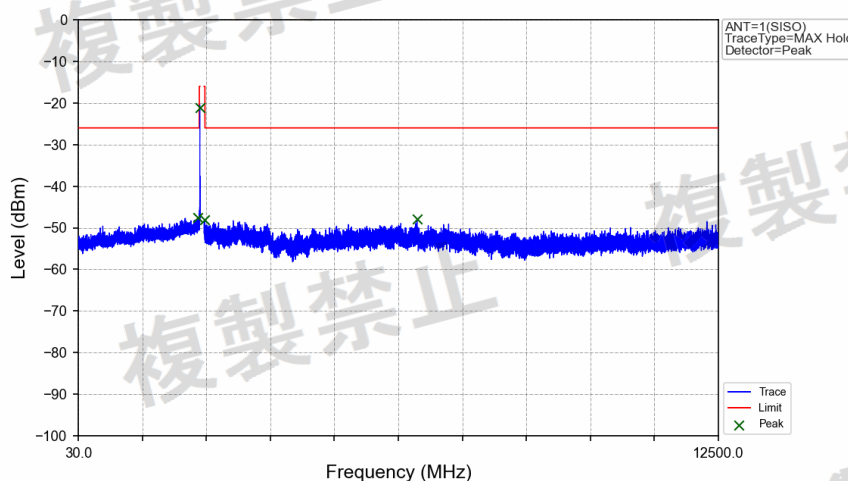
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

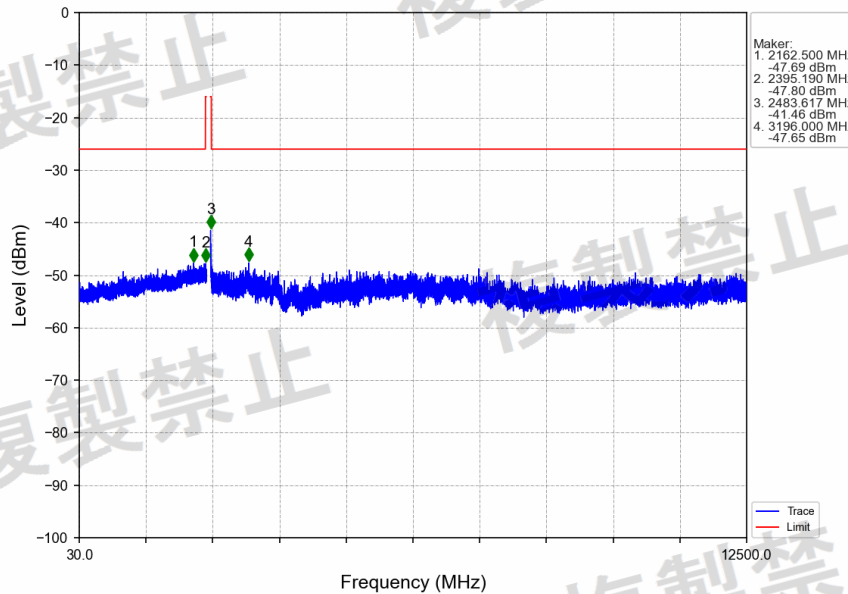


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2365.000	-47.48	/	-26	Pass
2387	2400	1	1	2399.987	-21.04	/	-16	Pass
2483.5	2496.5	1	1	2486.555	-48.17	/	-16	Pass
2496.5	12500	1	1	6628.000	-47.90	/	-26	Pass

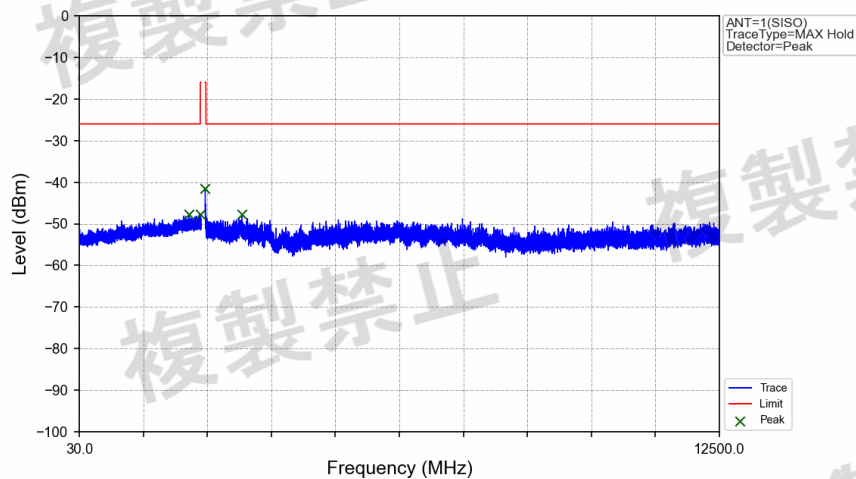
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2162.500	-47.69	/	-26	Pass
2387	2400	1	1	2395.190	-47.80	/	-16	Pass
2483.5	2496.5	1	1	2483.617	-41.46	/	-16	Pass
2496.5	12500	1	1	3196.000	-47.65	/	-26	Pass

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7. Secondary Radiated Emission

7.1 Test Result

7.1.1 RxSe_NTNV

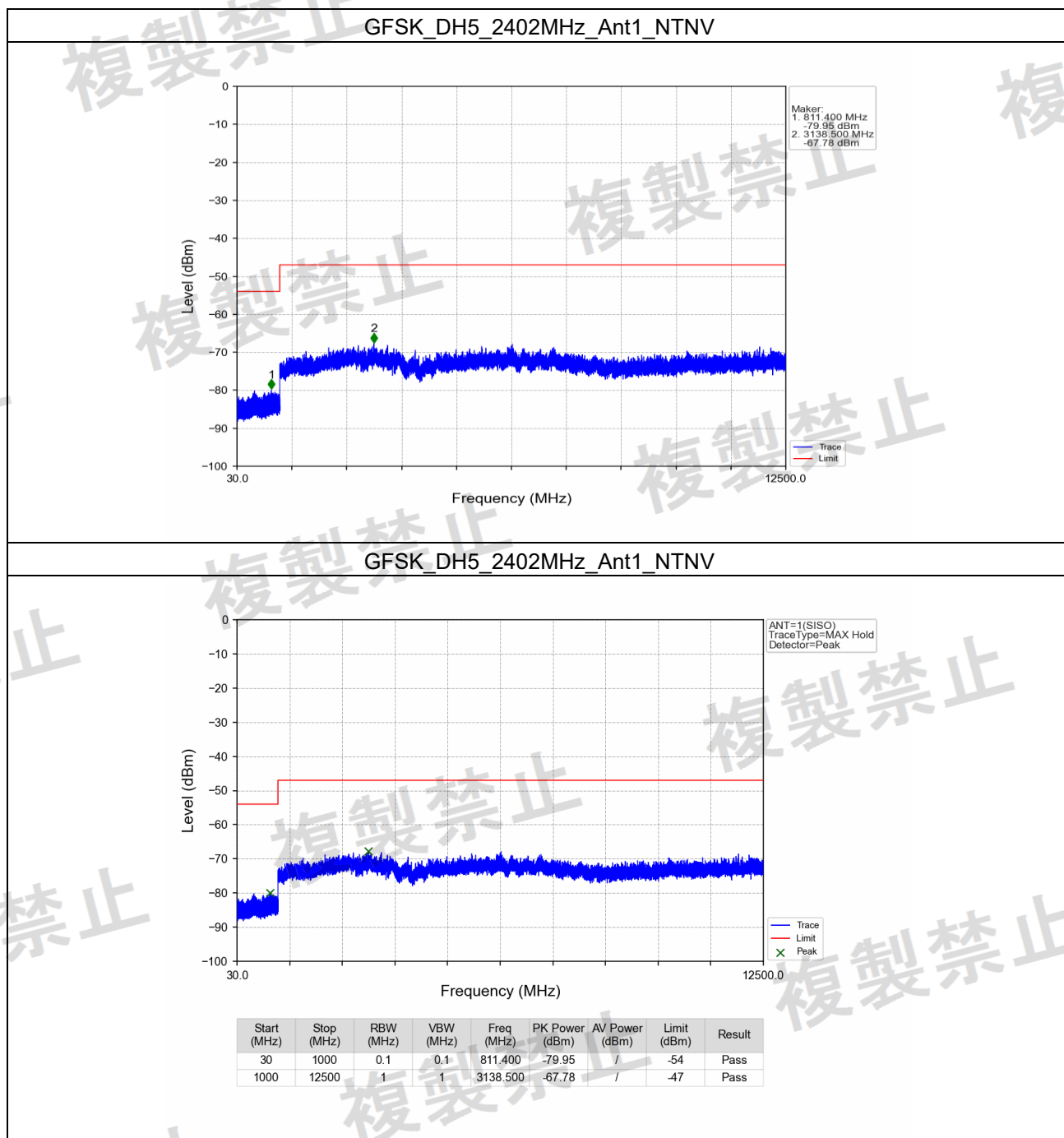
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	811.4	-79.95	0.010	/	/	4	Pass
				1000	12500	3138.5	-67.78	0.167	/	/	20	Pass
		2480	1	30	1000	798.2	-80.41	0.009	/	/	4	Pass
				1000	12500	12260	-68.12	0.154	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	866.9	-79.57	0.011	/	/	4	Pass
				1000	12500	7201.5	-67.35	0.184	/	/	20	Pass
		2480	1	30	1000	893.15	-79.99	0.010	/	/	4	Pass
				1000	12500	2685	-67.41	0.182	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	747.25	-79.30	0.012	/	/	4	Pass
				1000	12500	4597.5	-67.52	0.177	/	/	20	Pass
		2480	1	30	1000	838.6	-79.99	0.010	/	/	4	Pass
				1000	12500	2746.5	-68.03	0.157	/	/	20	Pass

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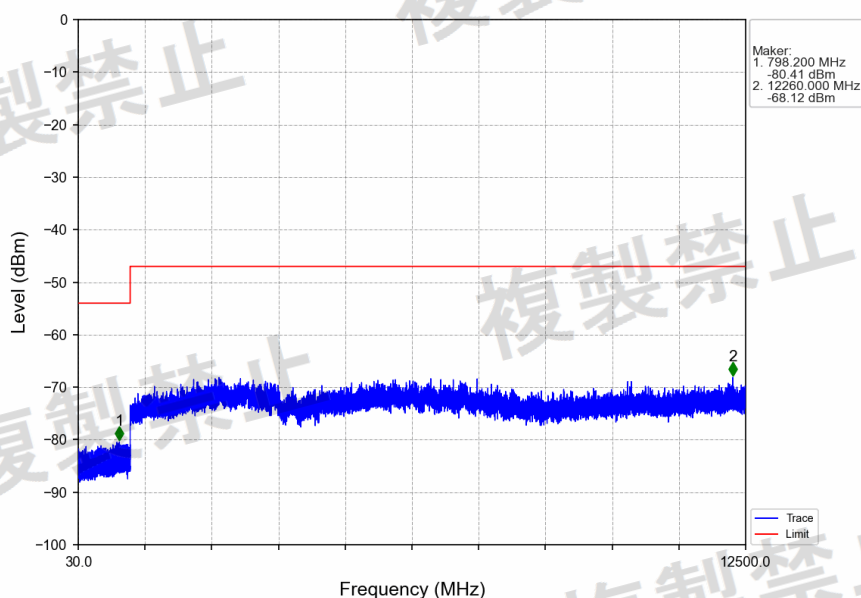
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7.2 Test Graph

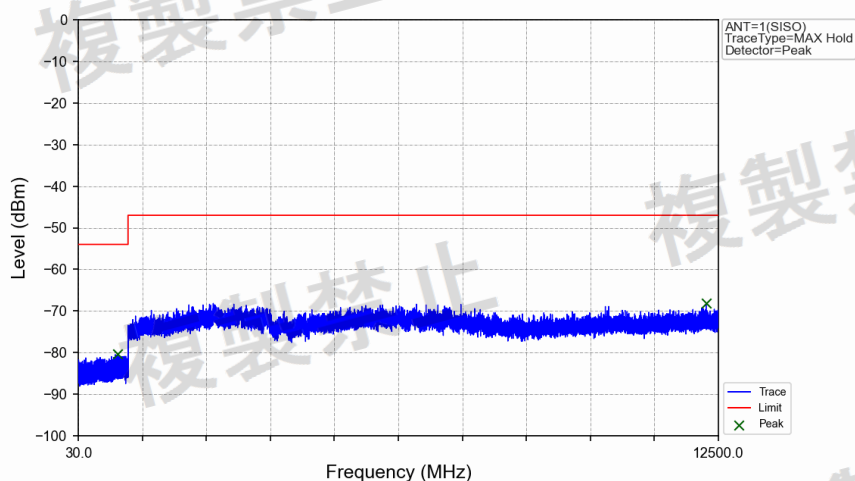
7.2.1 RxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

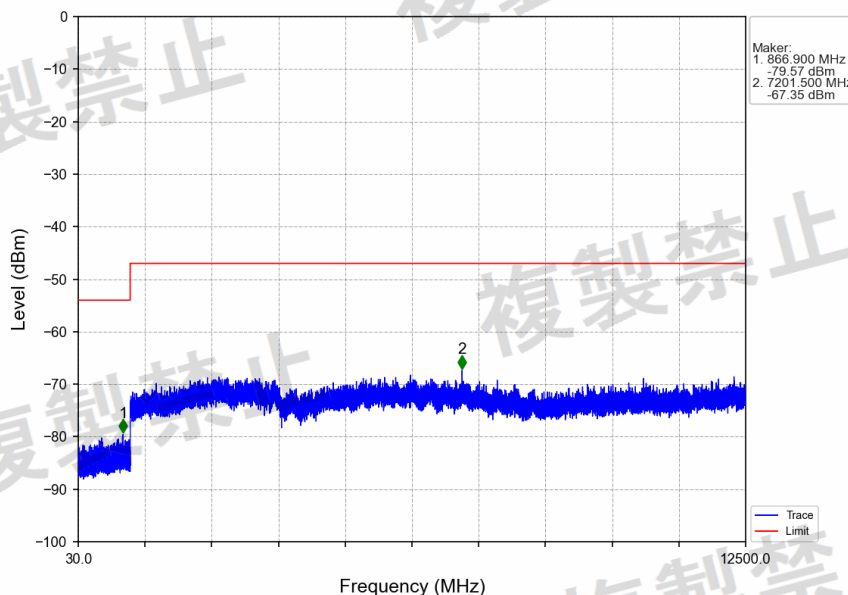


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	798.200	-80.41	/	-54	Pass
1000	12500	1	1	12260.000	-68.12	/	-47	Pass

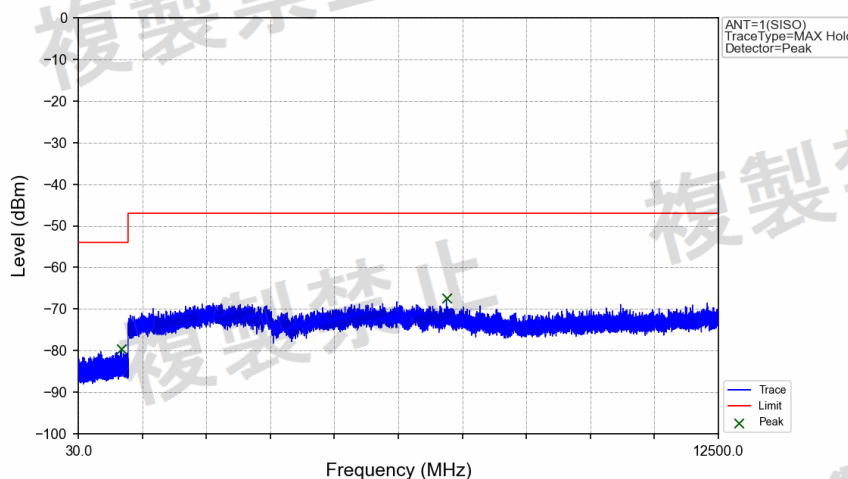
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

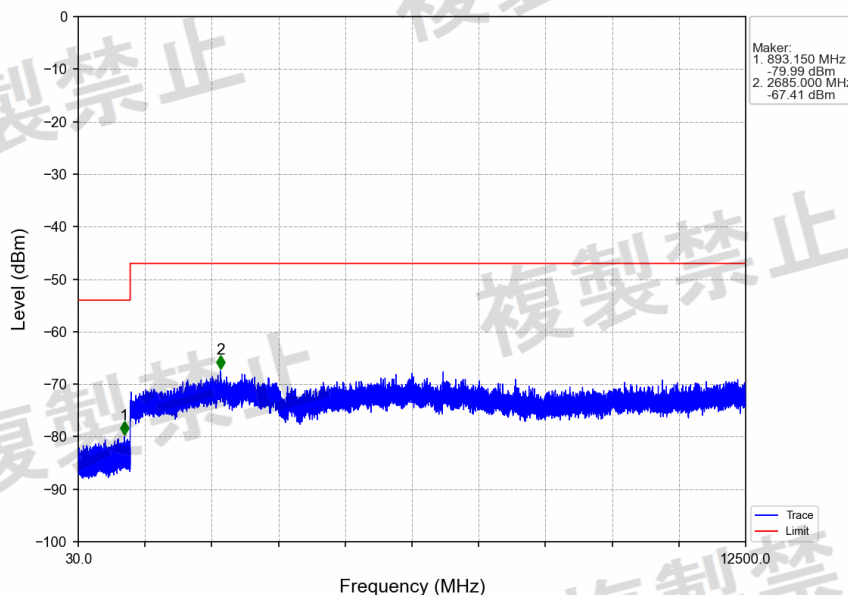


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	866.900	-79.57	/	-54	Pass
1000	12500	1	1	7201.500	-67.35	/	-47	Pass

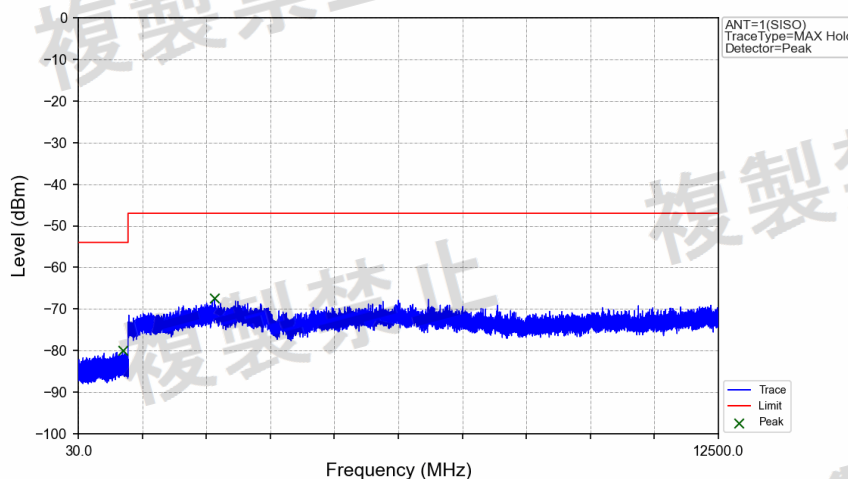
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

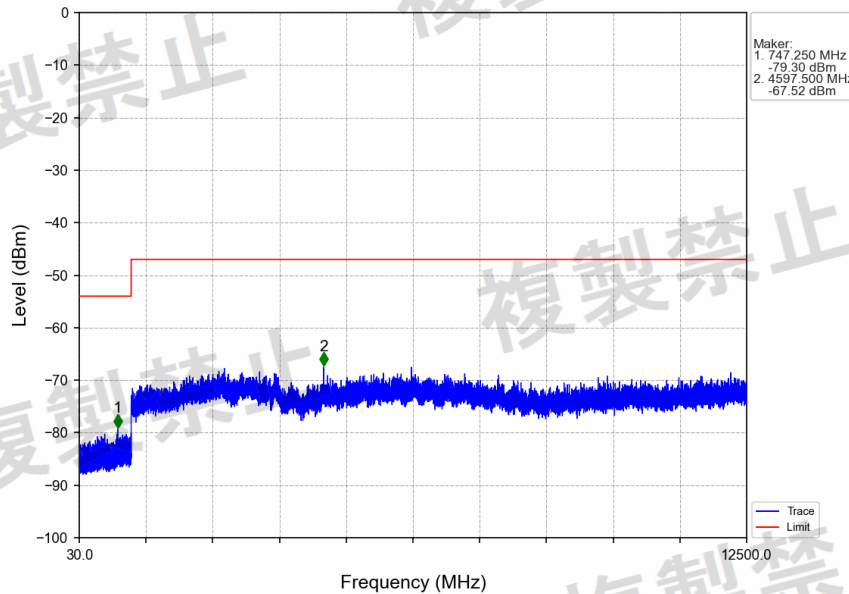


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	893.150	-79.99	/	-54	Pass
1000	12500	1	1	2685.000	-67.41	/	-47	Pass

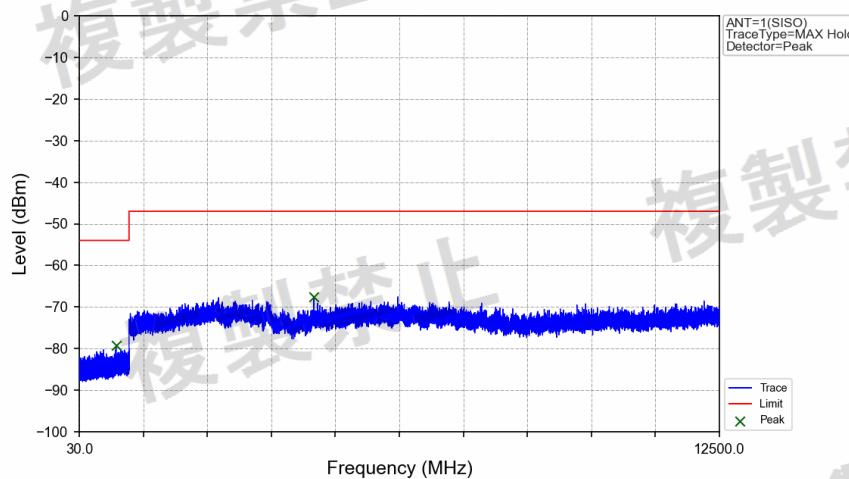
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

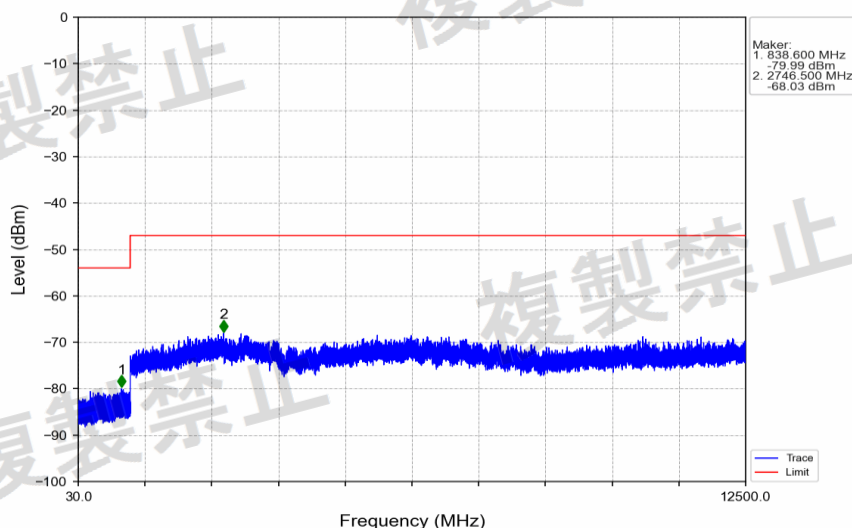


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	747.250	-79.30	/	-54	Pass
1000	12500	1	1	4597.500	-67.52	/	-47	Pass

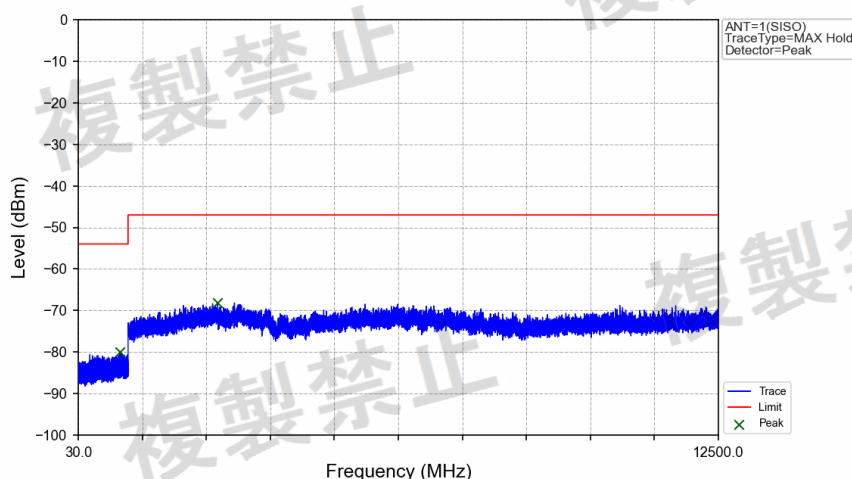
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	838.600	-79.99	/	-54	Pass
1000	12500	1	1	2746.500	-68.03	/	-47	Pass

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Test data for right earbud:

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

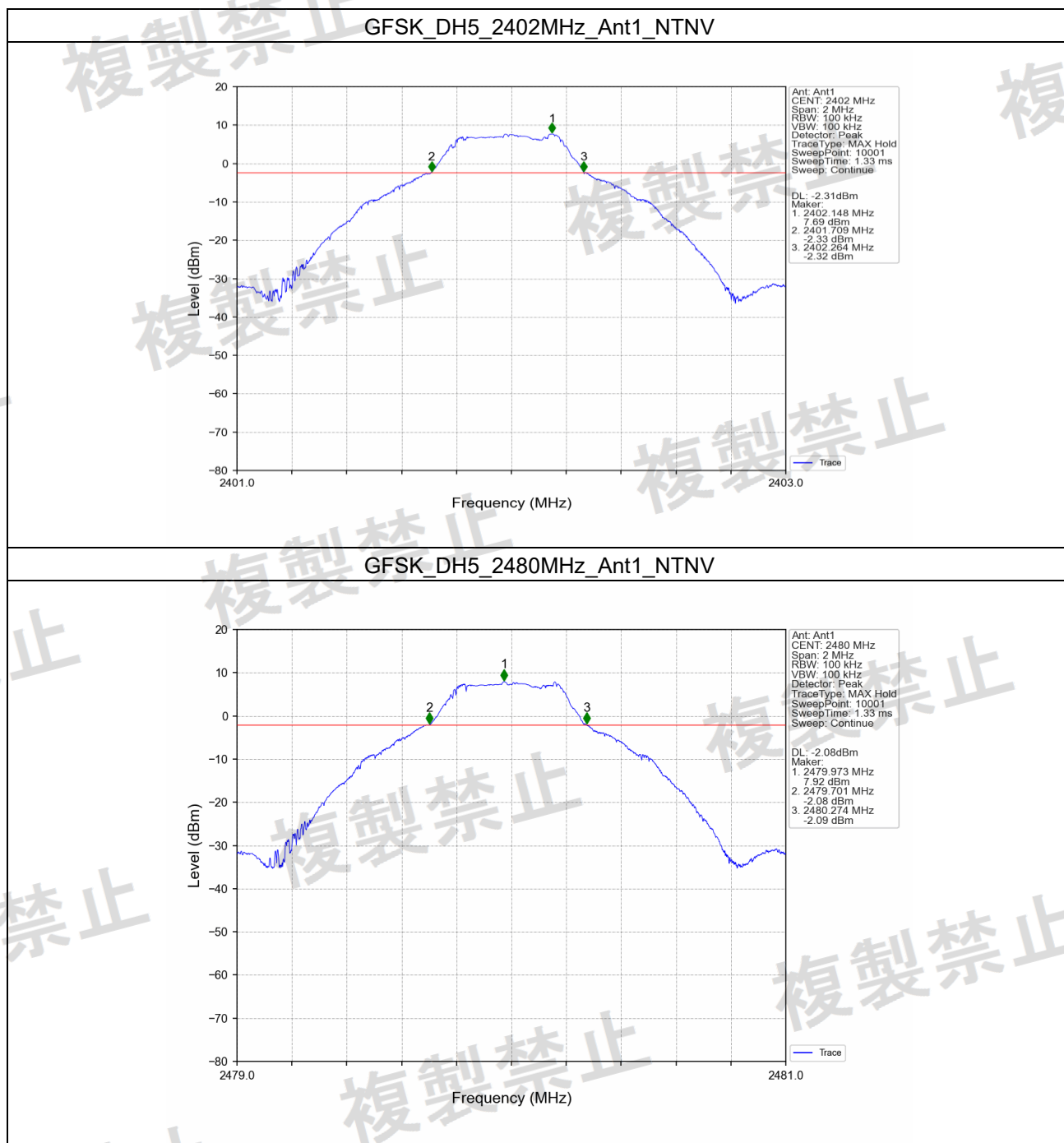
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	GFSK	SISO	2402	DH5	2401.986	-5.62	-50 to 50	Pass
			2480	DH5	2479.988	-4.96	-50 to 50	Pass
	Pi/4DQPSK	SISO	2402	2DH5	2401.985	-6.24	-50 to 50	Pass
			2480	2DH5	2479.982	-7.11	-50 to 50	Pass
	8DPSK	SISO	2402	3DH5	2401.974	-10.74	-50 to 50	Pass
			2480	3DH5	2479.976	-9.68	-50 to 50	Pass

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1.2 Test Graph

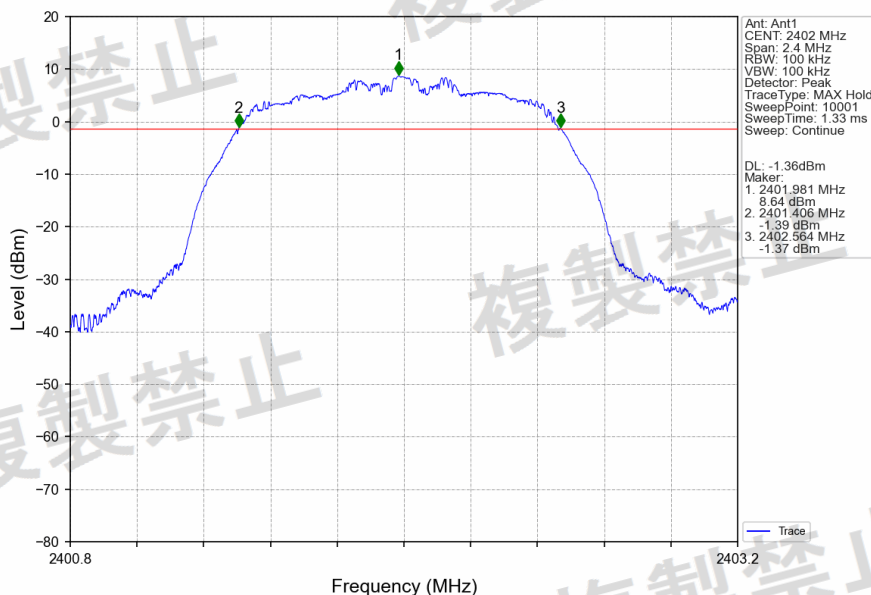
1.2.1 Ant1



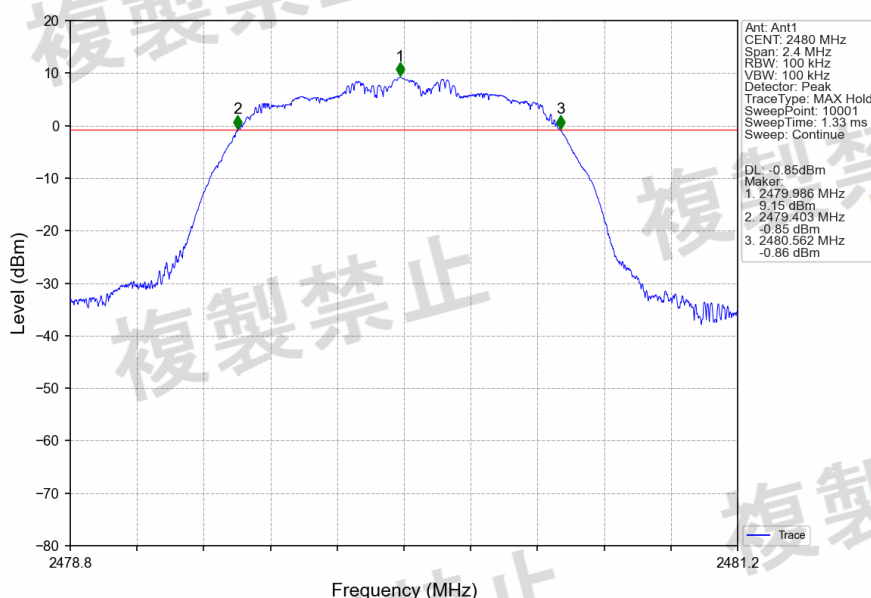
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



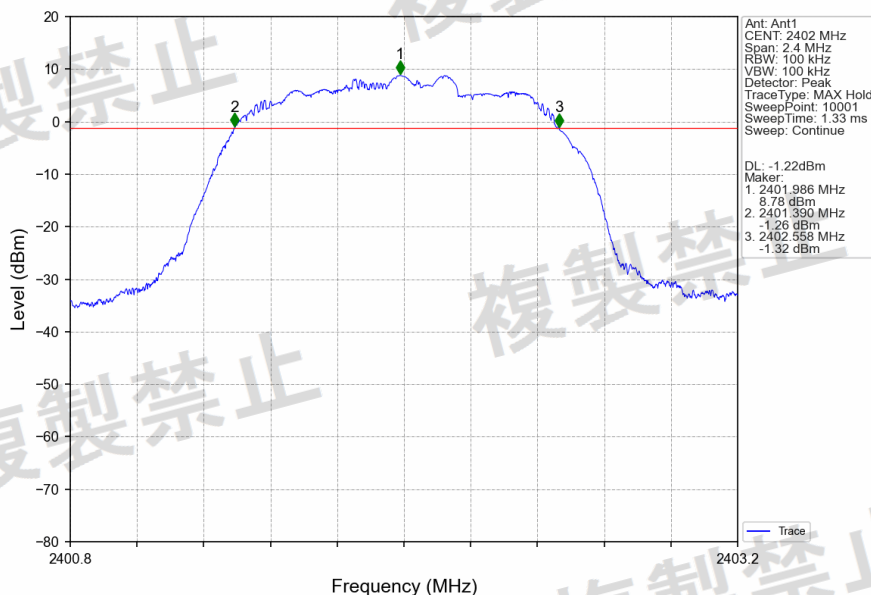
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



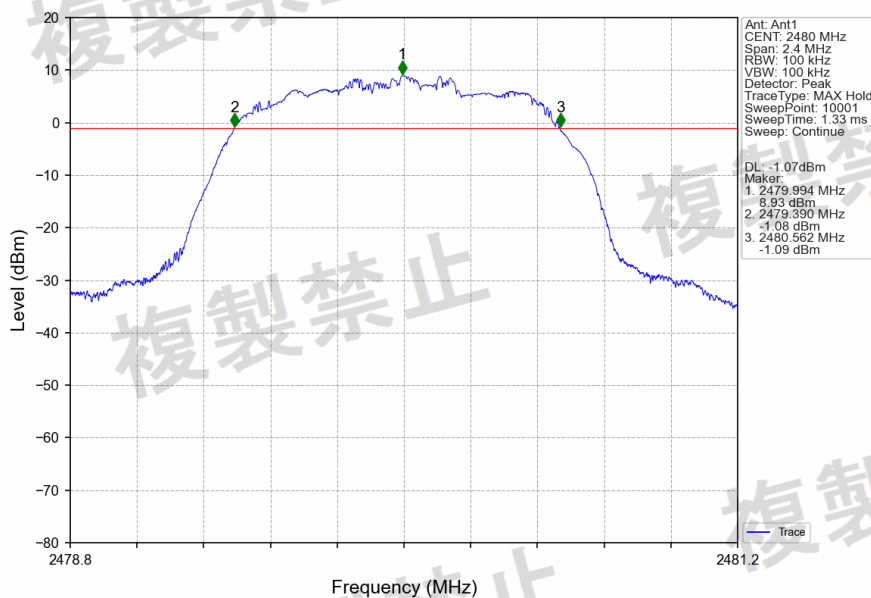
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



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2. Occupied Bandwidth

2.1 Test Result

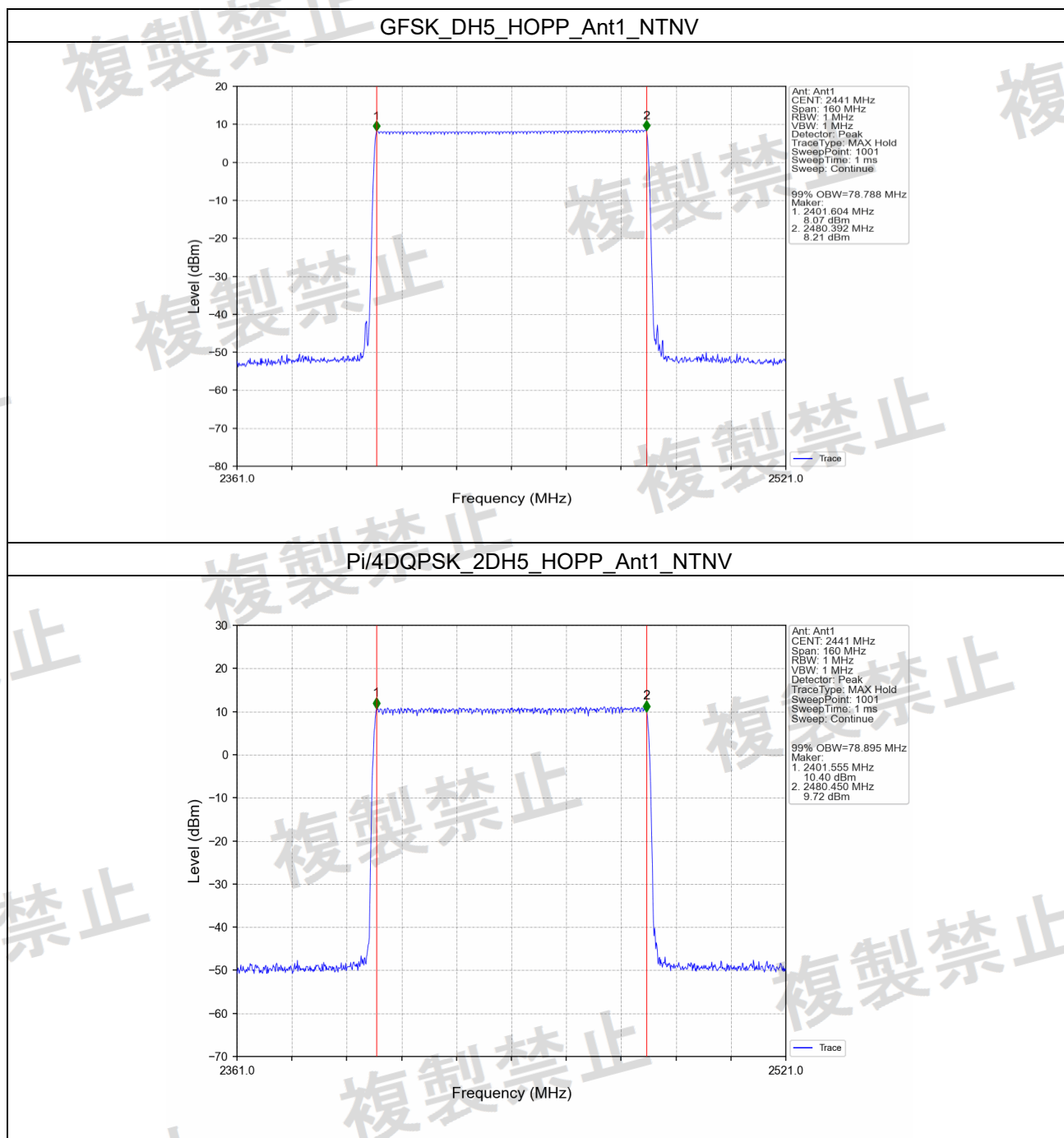
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.788	<=83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.895	<=83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.940	<=83.5	Pass



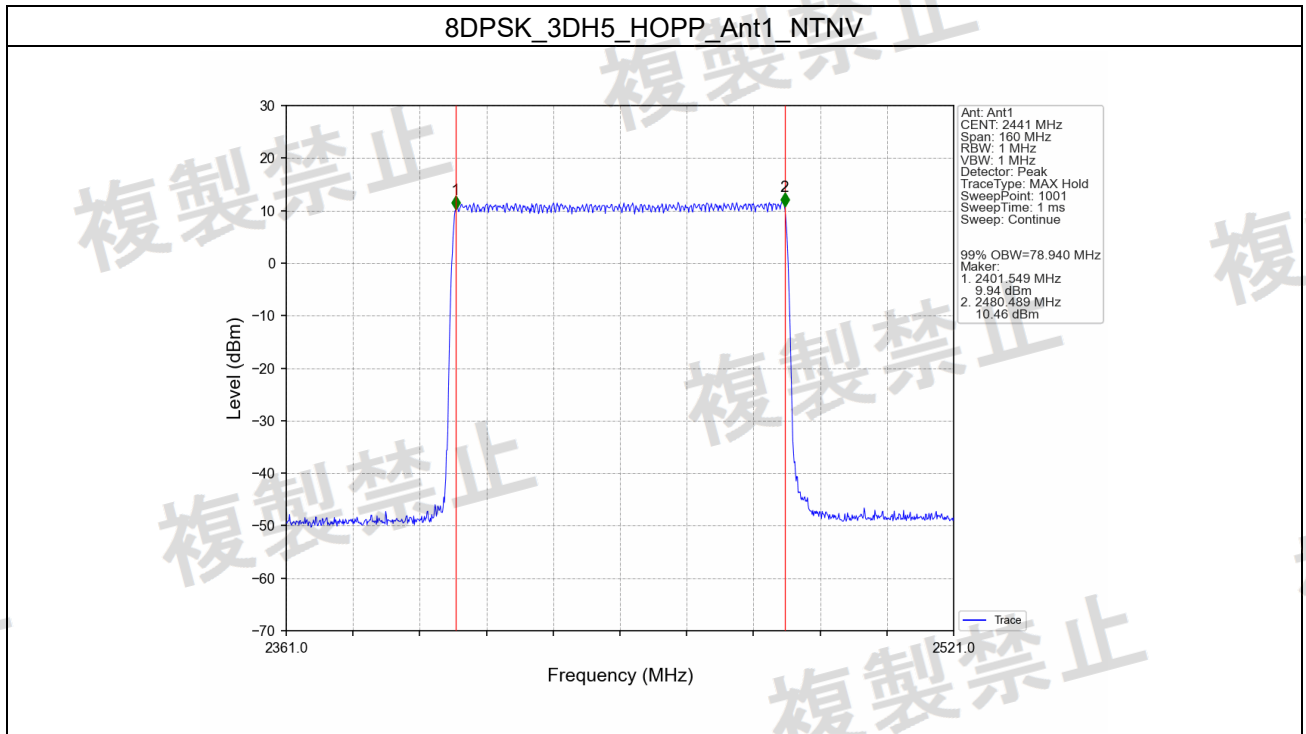
2.2 Test Graph

2.2.1 OBW



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3. Spread Bandwidth

3.1 Test Result

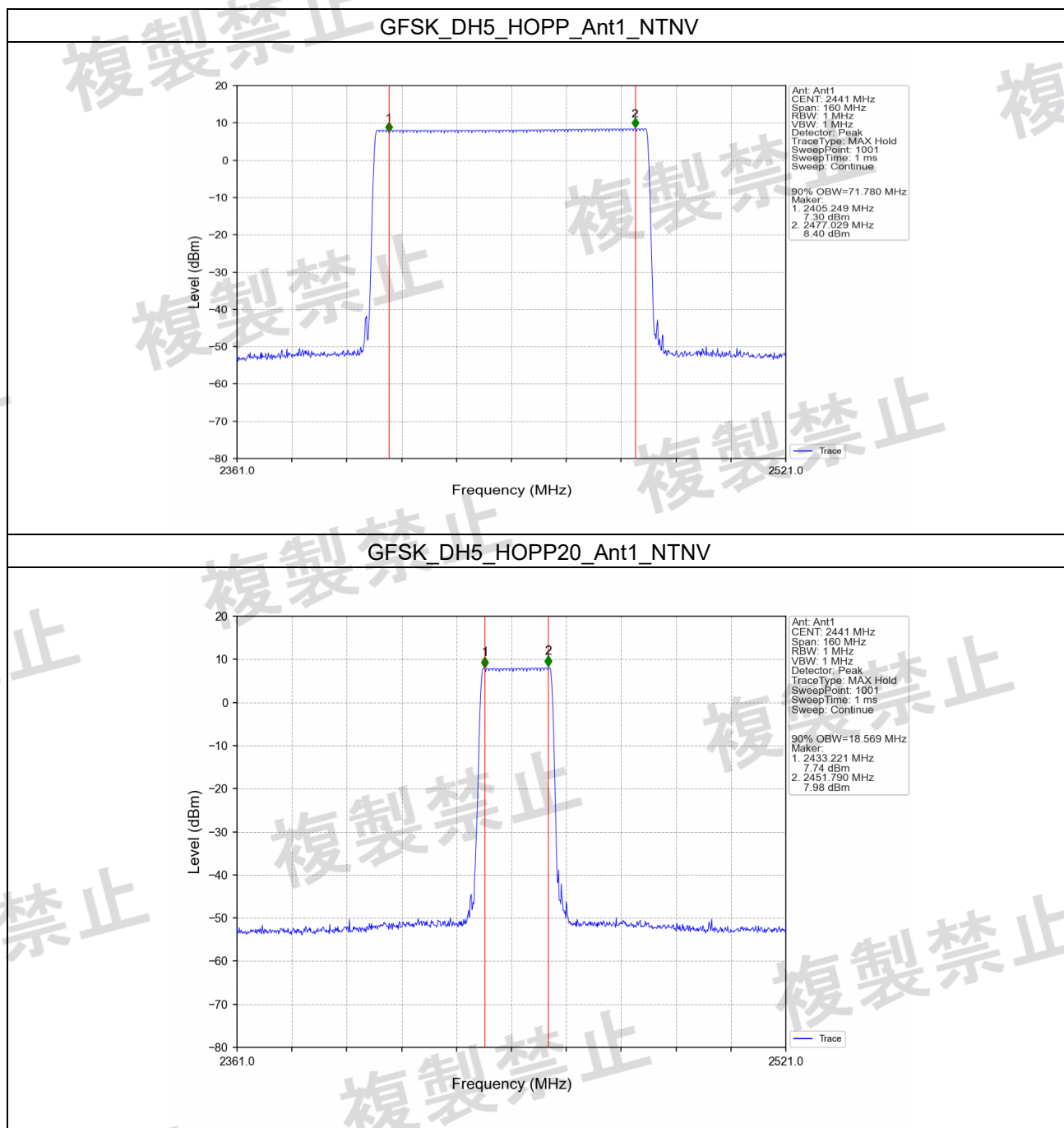
3.1.1 SPBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.780	/	Only For Report
			HOPP20	DH5	18.569	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.813	/	Only For Report
			HOPP20	2DH5	18.659	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	72.107	/	Only For Report
			HOPP20	3DH5	18.680	/	Only For Report



3.2 Test Graph

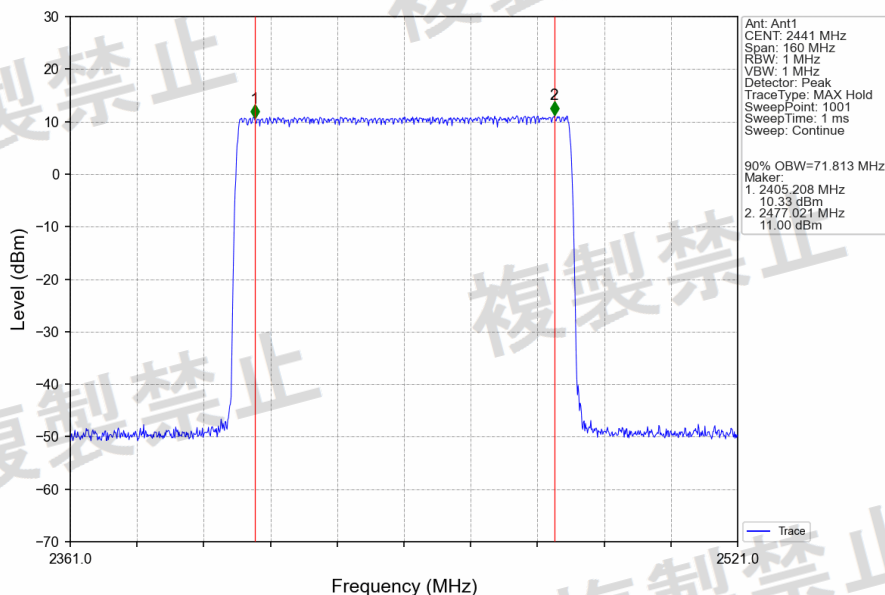
3.2.1 SPBW



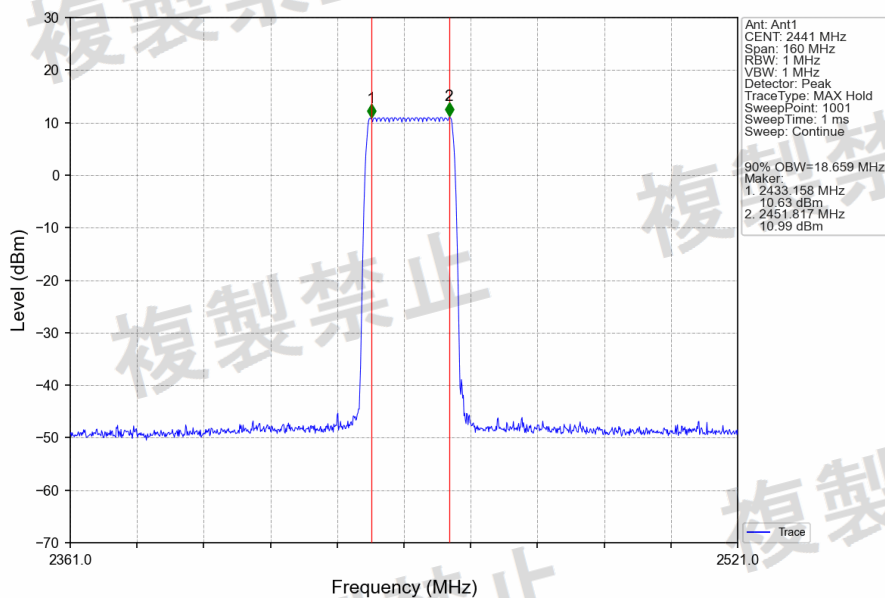
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



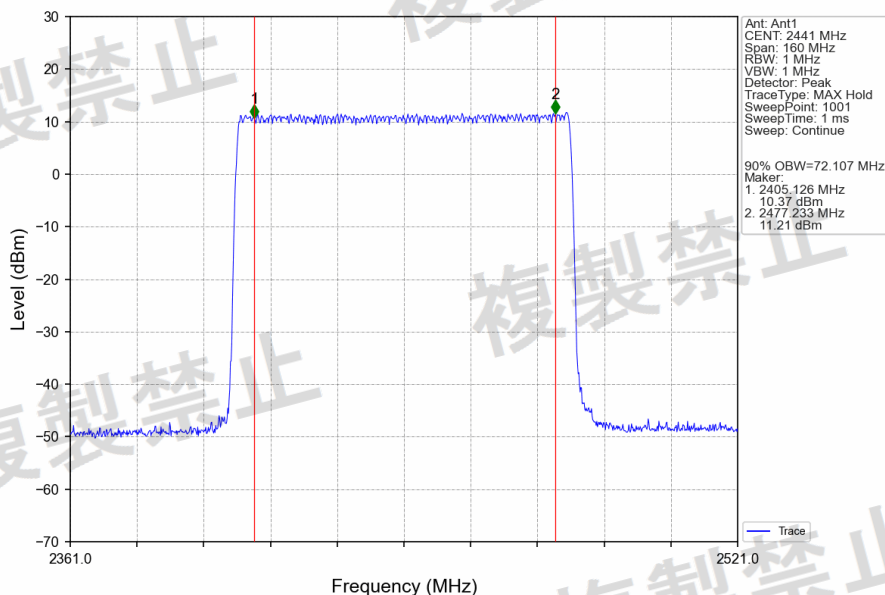
Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



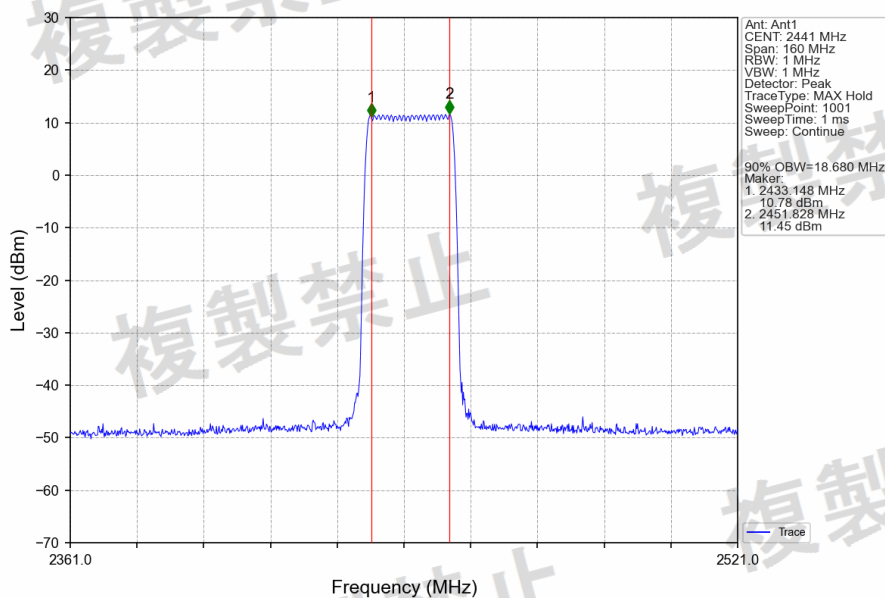
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV



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4. Antenna Power

4.1 Test Result

4.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
						Measured	Limit		Measured	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	0.095	<=3.00	0.150	-36.67	<=20	Pass
			HOPP20	DH5	1	0.368	<=3.00	0.500	-26.40	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.087	<=3.00	0.150	-42.00	<=20	Pass
			HOPP20	2DH5	1	0.336	<=3.00	0.500	-32.80	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.090	<=3.00	0.150	-40.00	<=20	Pass
			HOPP20	3DH5	1	0.348	<=3.00	0.500	-30.40	<=20	Pass

4.1.2 EIRP

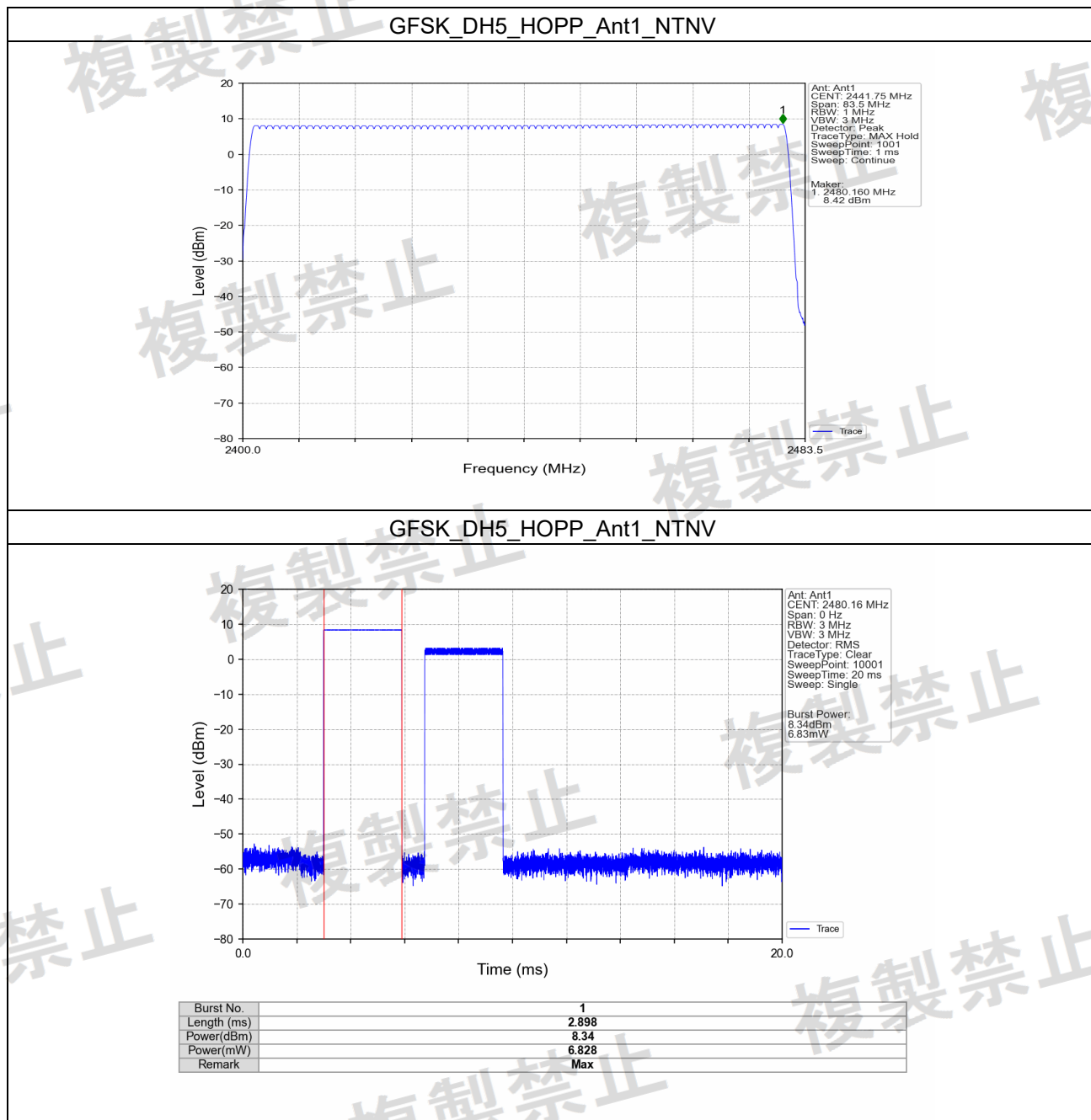
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Gain (dBi)	EIRP (dBm/MHz)		Verdict
							Result	Limit	
NTNV	GFSK	SISO	HOPP	DH5	1	-5.00	-15.22	<=6.91	Pass
			HOPP20	DH5	1	-5.00	-9.34	<=6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	-5.00	-15.59	<=6.91	Pass
			HOPP20	2DH5	1	-5.00	-9.74	<=6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	-5.00	-15.44	<=6.91	Pass
			HOPP20	3DH5	1	-5.00	-9.58	<=6.91	Pass

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4.2 Test Graph

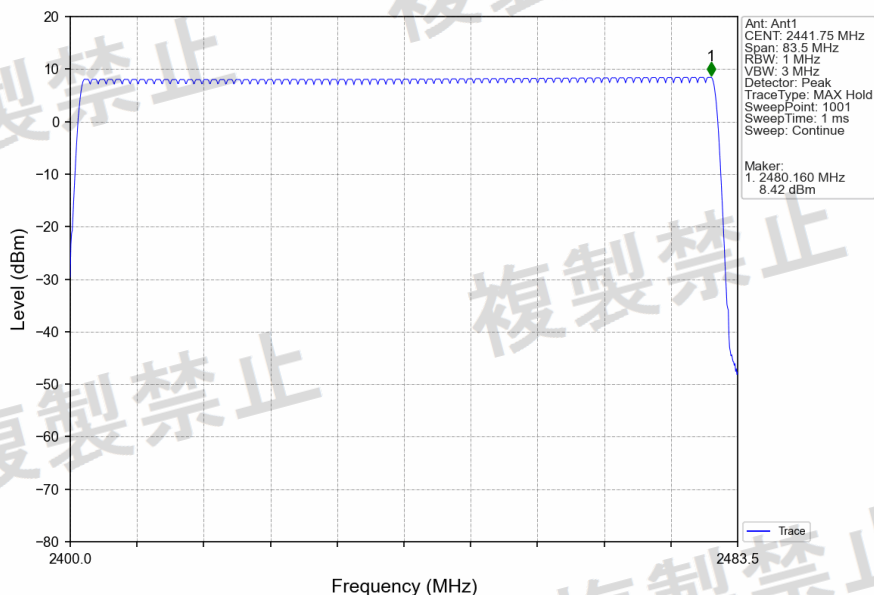
4.2.1 Power



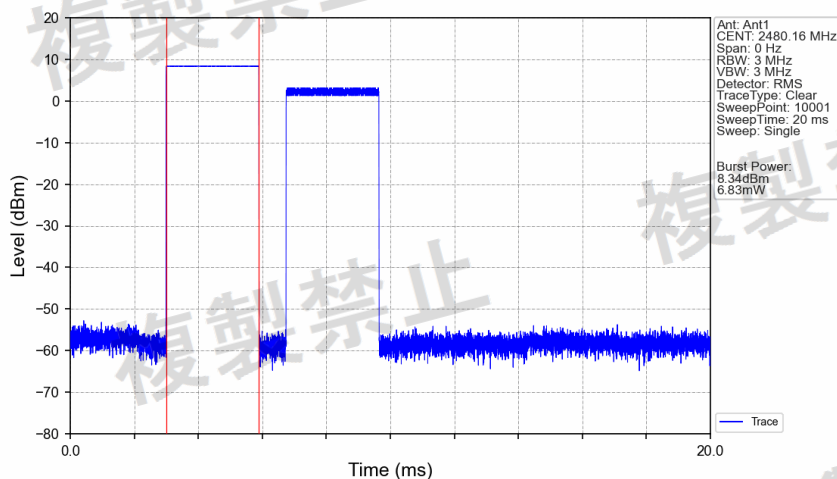
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GFSK_DH5_HOPP20_Ant1_NTNV



GFSK_DH5_HOPP20_Ant1_NTNV

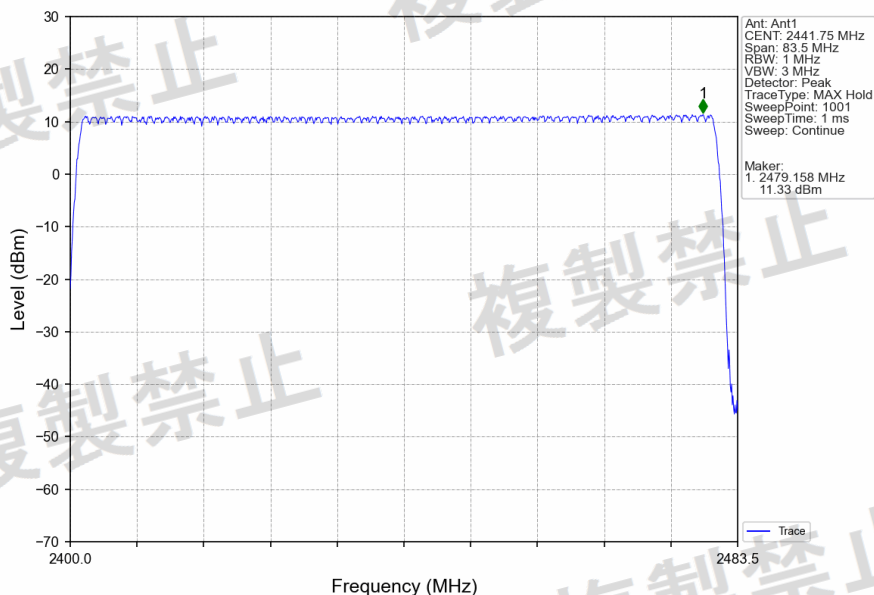


Burst No.	1
Length (ms)	2.898
Power(dBm)	8.34
Power(mW)	6.828
Remark	Max

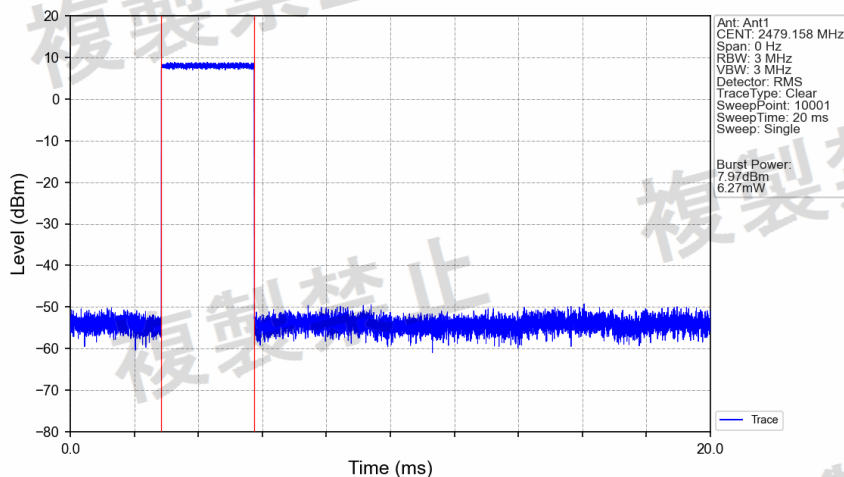
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

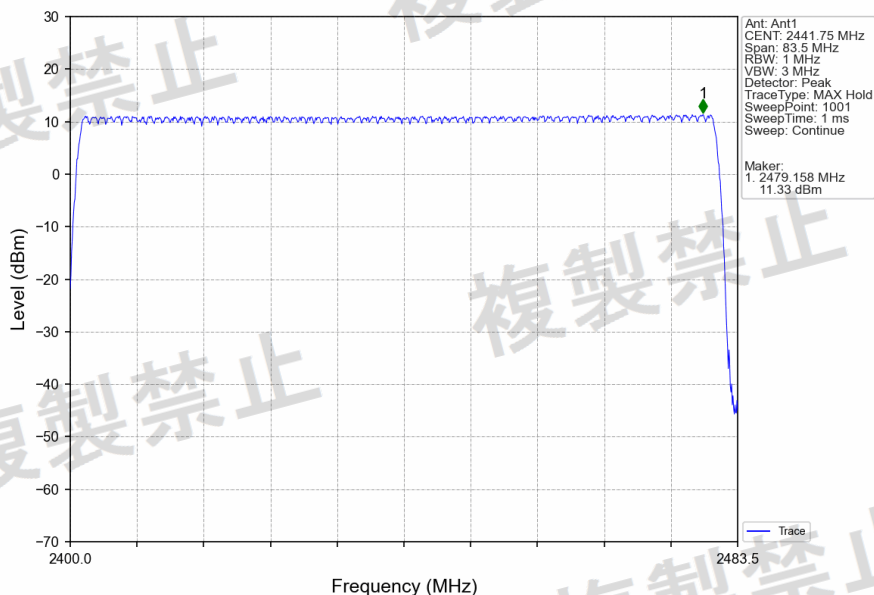


Burst No.	1
Length (ms)	2.904
Power(dBm)	7.97
Power(mW)	6.272
Remark	Max

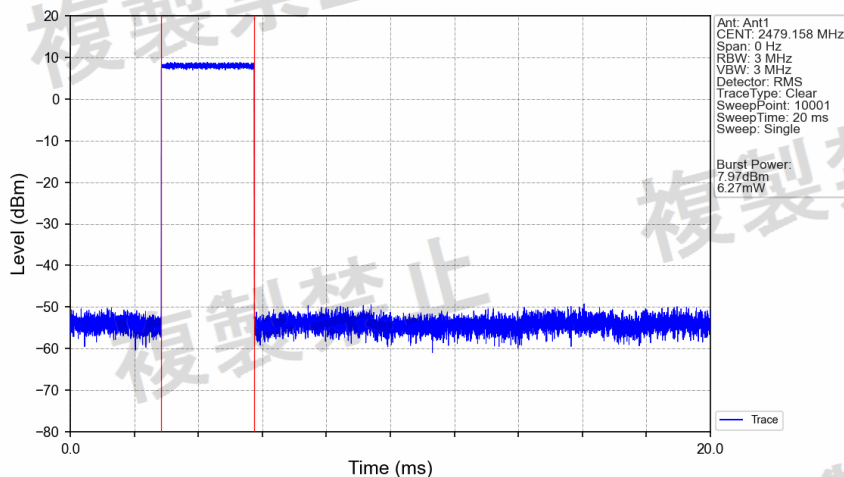
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV

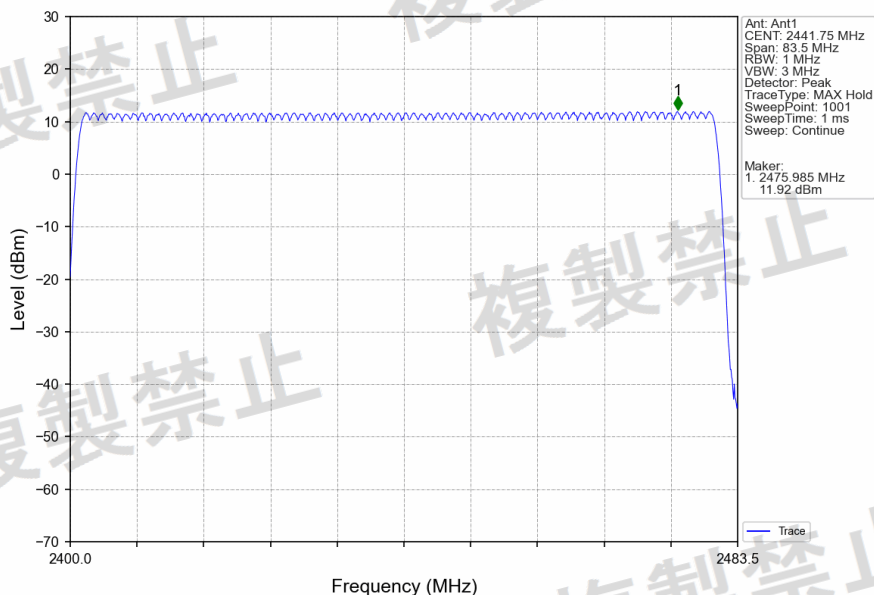


Burst No.	1
Length (ms)	2.904
Power(dBm)	7.97
Power(mW)	6.272
Remark	Max

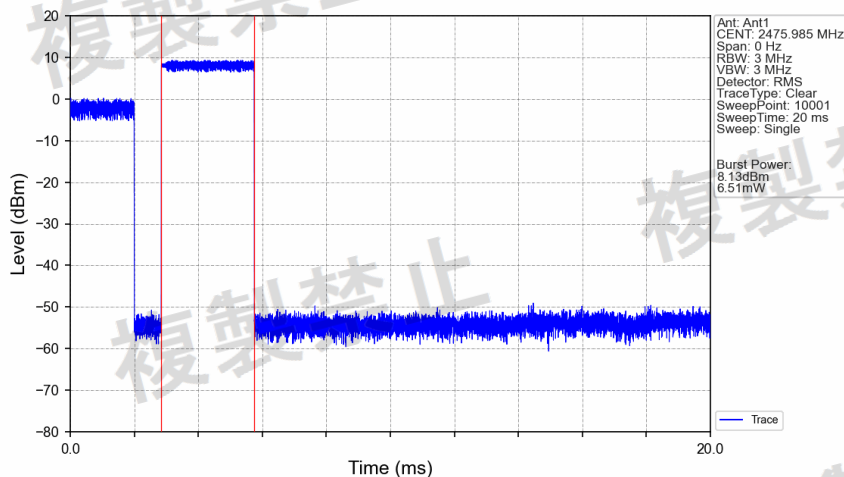
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

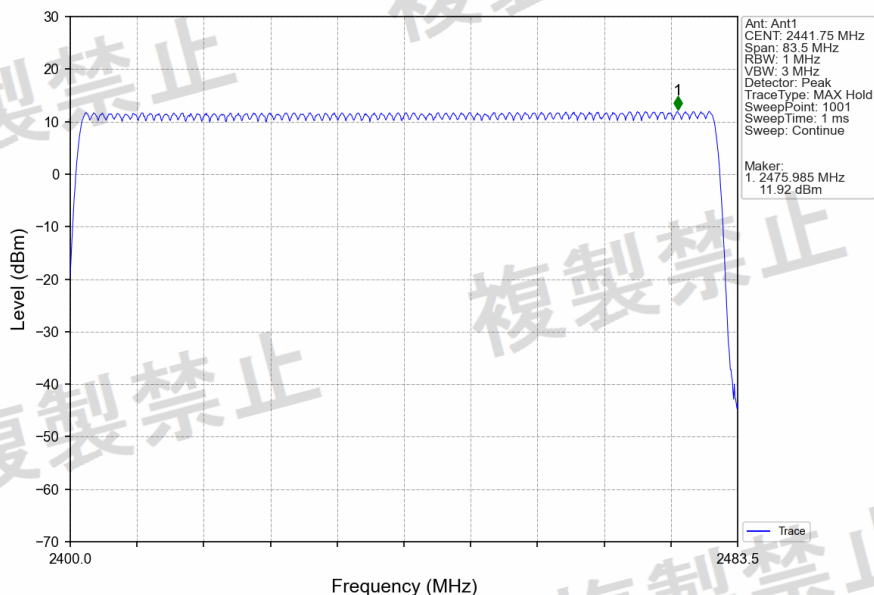


Burst No.	1
Length (ms)	2.902
Power(dBm)	8.13
Power(mW)	6.509
Remark	Max

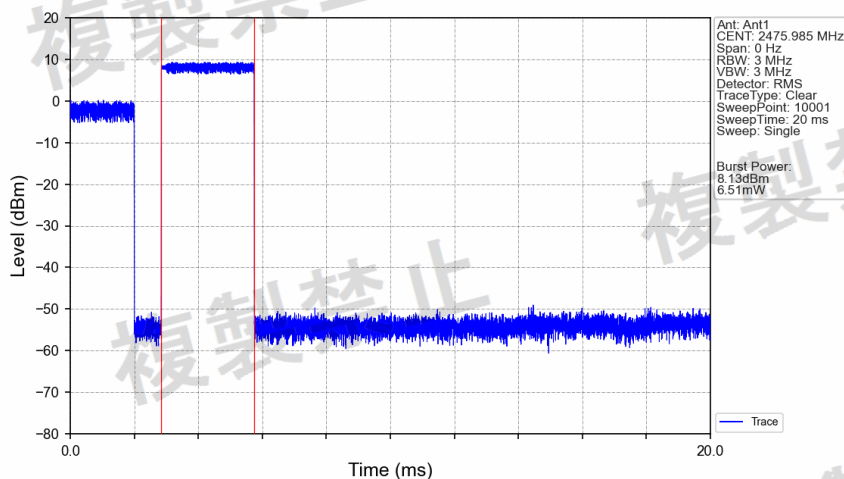
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8DPSK_3DH5_HOPP20_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV



Burst No.	1
Length (ms)	2.902
Power(dBm)	8.13
Power(mW)	6.509
Remark	Max

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5. Dwell Time

5.1 Test Result

5.1.1 Ant1

Ant1											
ENV	Mode	Tx Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	71.780	0.399	1.250	79	116.011	<=400	Pass
				DH3	71.780	1.655	2.500	79	240.599	<=400	Pass
				DH5	71.780	2.902	3.750	79	281.256	<=400	Pass
			2480	DH1	71.780	0.399	1.250	79	116.011	<=400	Pass
				DH3	71.780	1.656	2.500	79	240.745	<=400	Pass
				DH5	71.780	2.903	3.750	79	281.353	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.813	0.403	1.250	79	117.228	<=400	Pass
				2DH3	71.813	1.655	2.500	79	240.710	<=400	Pass
				2DH5	71.813	2.902	3.750	79	281.386	<=400	Pass
			2480	2DH1	71.813	0.404	1.250	79	117.519	<=400	Pass
				2DH3	71.813	1.654	2.500	79	240.564	<=400	Pass
				2DH5	71.813	2.903	3.750	79	281.483	<=400	Pass
	8DPSK	SISO	2402	3DH1	72.107	0.403	1.250	79	117.708	<=400	Pass
				3DH3	72.107	1.654	2.500	79	241.549	<=400	Pass
				3DH5	72.107	2.906	3.750	79	282.927	<=400	Pass
			2480	3DH1	72.107	0.404	1.250	79	118.000	<=400	Pass
				3DH3	72.107	1.654	2.500	79	241.549	<=400	Pass
				3DH5	72.107	2.905	3.750	79	282.830	<=400	Pass

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5.1.2 Ant1_HOPP20

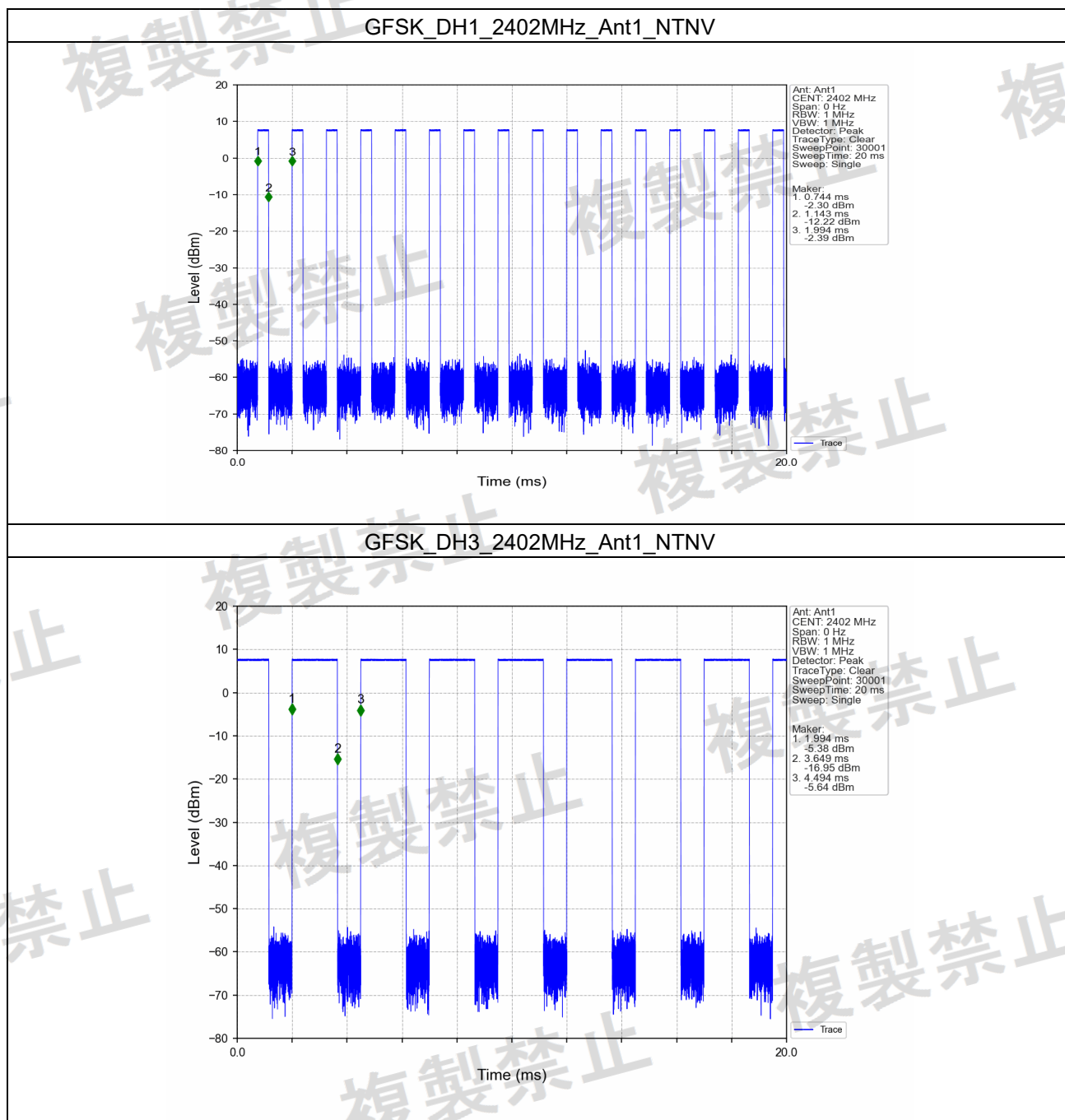
Ant1_HOPP20											
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spreading Rate	T_on (ms)	Period (ms)	Hopp Number	Dwell Time (ms)		Verdict
									Result	Limit	
NTNV	GFSK	SISO	2402	DH1	18.569	0.399	1.250	20	118.544	<=400	Pass
				DH3	18.569	1.655	2.500	20	245.854	<=400	Pass
				DH5	18.569	2.902	3.750	20	287.399	<=400	Pass
			2480	DH1	18.569	0.399	1.250	20	118.544	<=400	Pass
				DH3	18.569	1.656	2.500	20	246.002	<=400	Pass
				DH5	18.569	2.903	3.750	20	287.498	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.659	0.403	1.250	20	120.313	<=400	Pass
				2DH3	18.659	1.655	2.500	20	247.045	<=400	Pass
				2DH5	18.659	2.902	3.750	20	288.792	<=400	Pass
			2480	2DH1	18.659	0.404	1.250	20	120.612	<=400	Pass
				2DH3	18.659	1.654	2.500	20	246.896	<=400	Pass
				2DH5	18.659	2.903	3.750	20	288.891	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.680	0.403	1.250	20	120.449	<=400	Pass
				3DH3	18.680	1.654	2.500	20	247.174	<=400	Pass
				3DH5	18.680	2.906	3.750	20	289.515	<=400	Pass
			2480	3DH1	18.680	0.404	1.250	20	120.748	<=400	Pass
				3DH3	18.680	1.654	2.500	20	247.174	<=400	Pass
				3DH5	18.680	2.905	3.750	20	289.415	<=400	Pass

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5.2 Test Graph

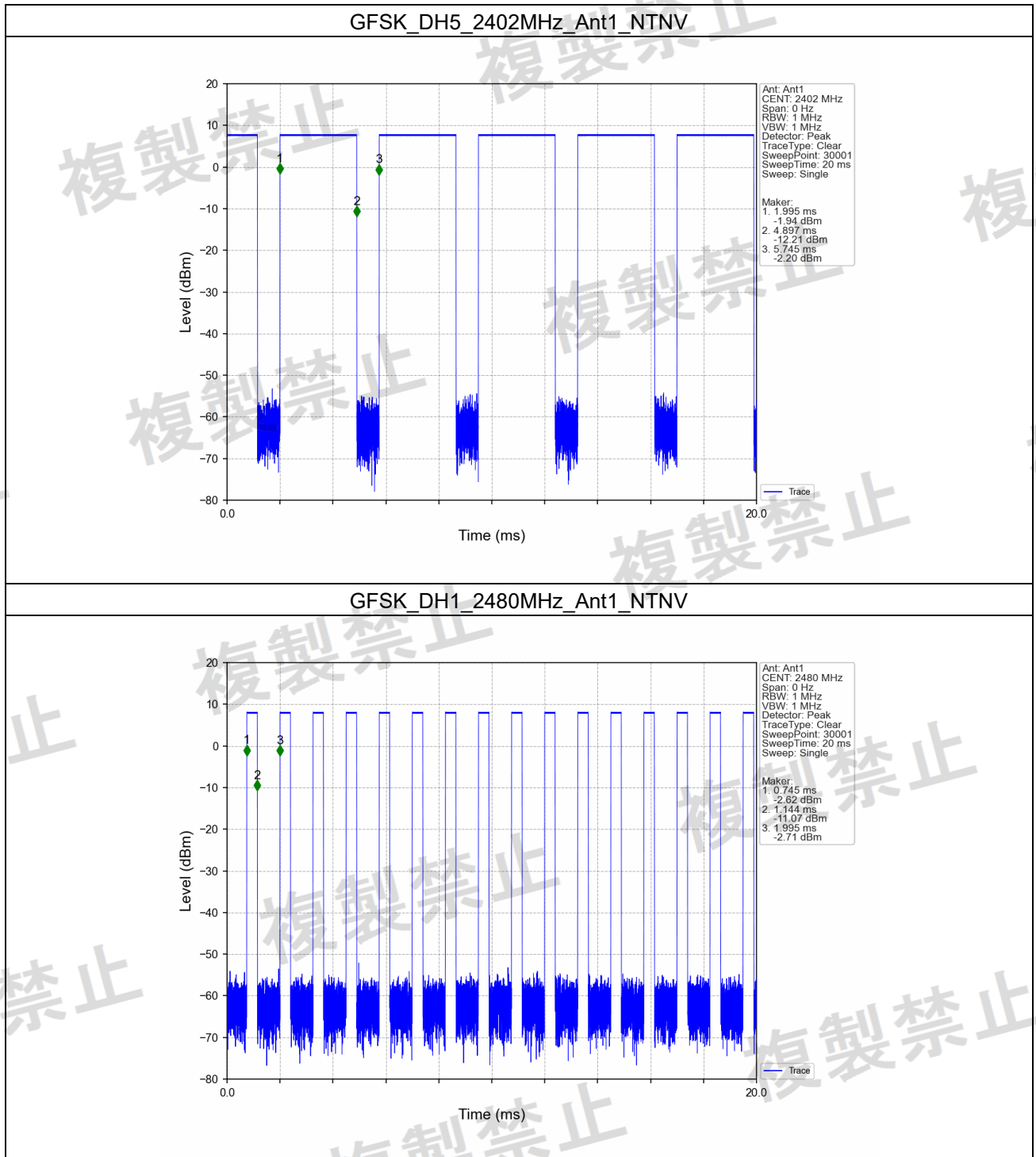
5.2.1 Ant1

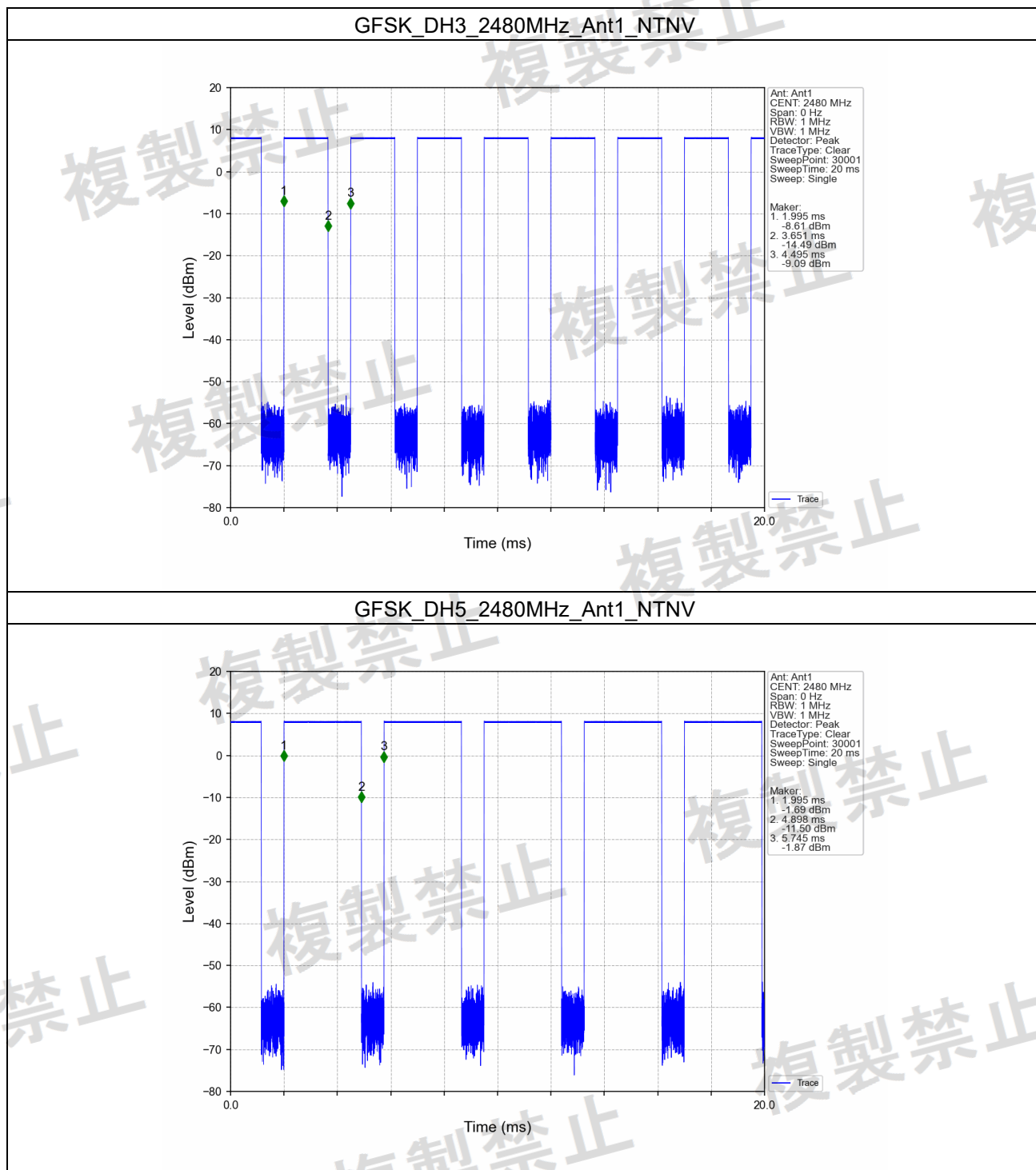


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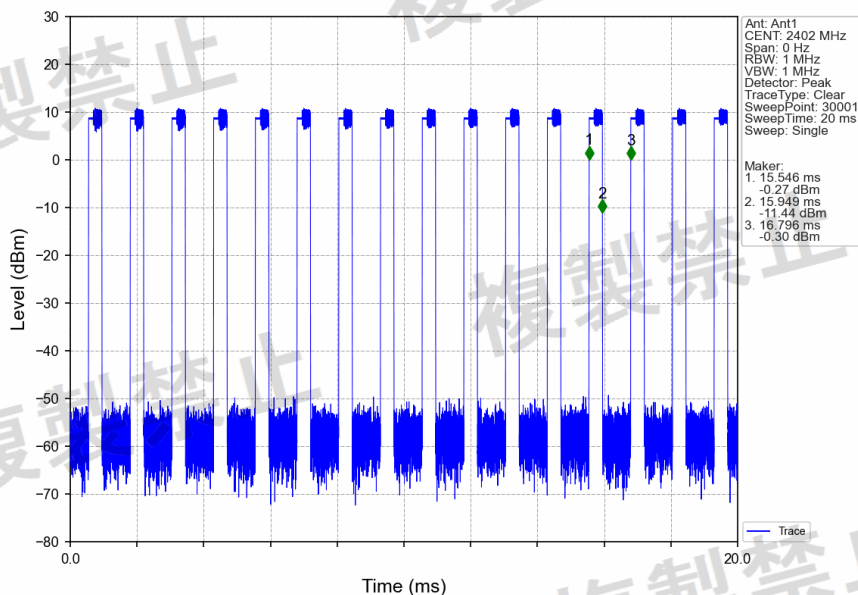
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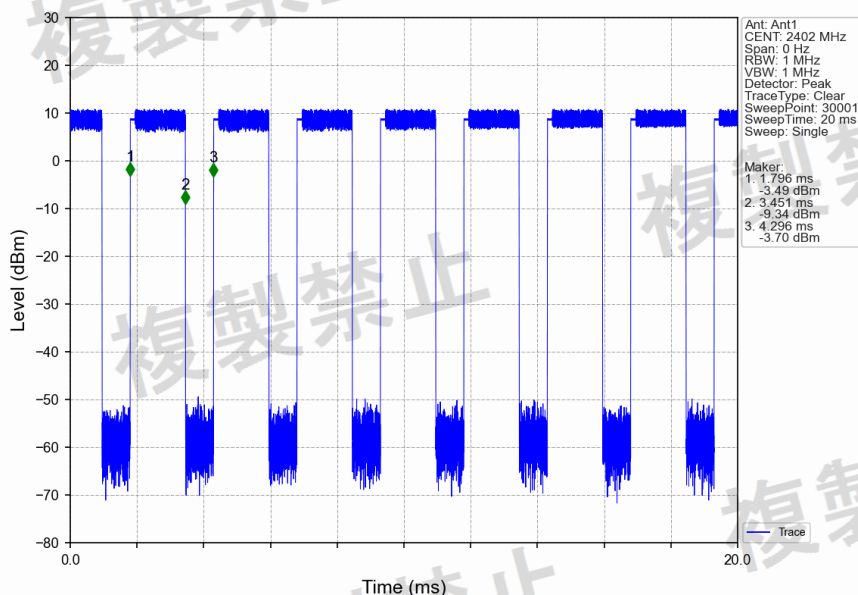




Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



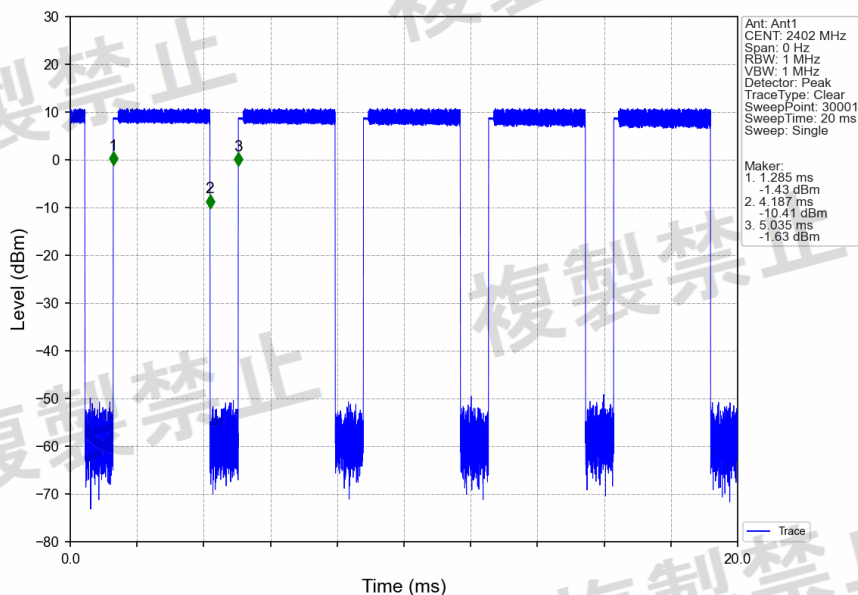
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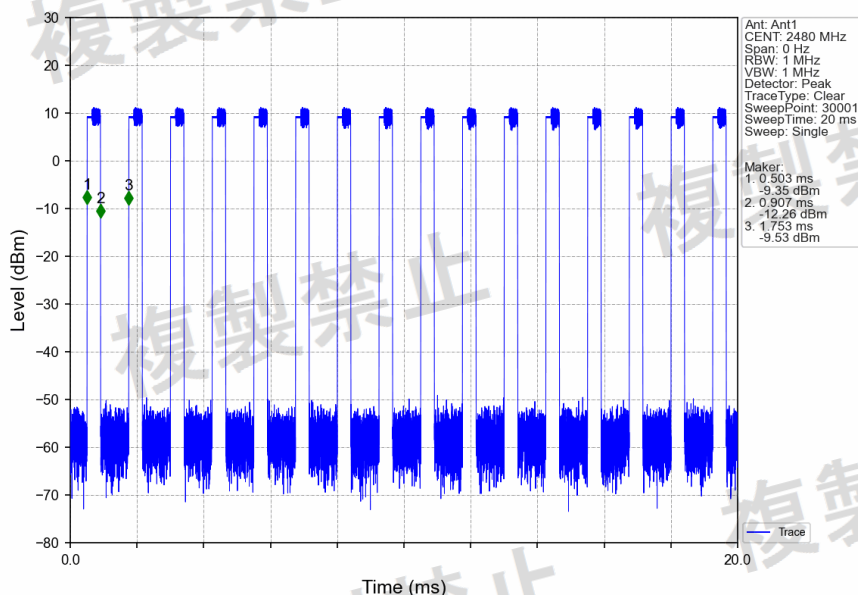
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



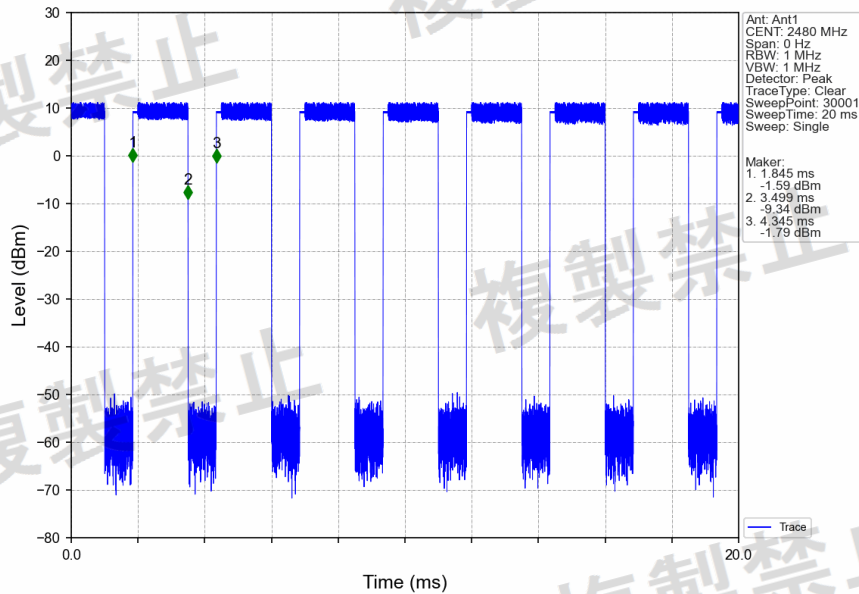
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



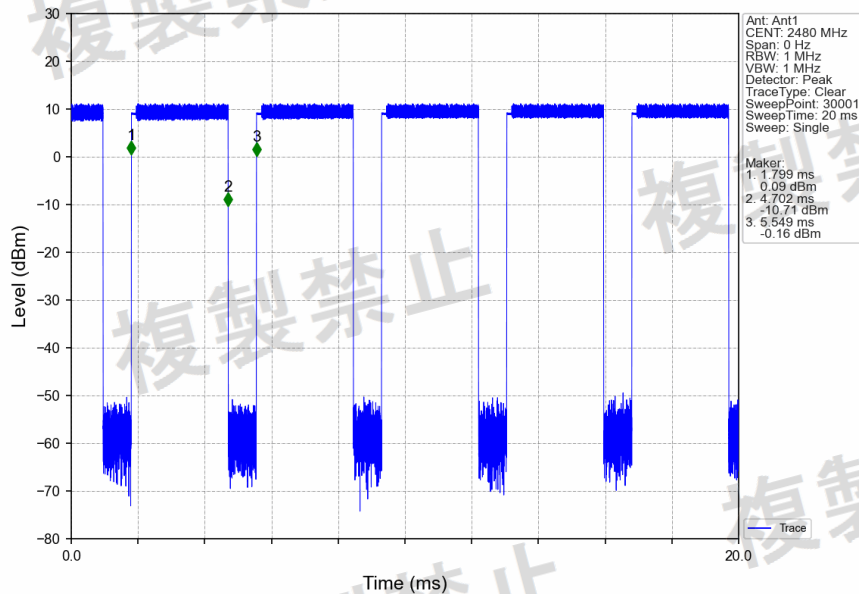
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



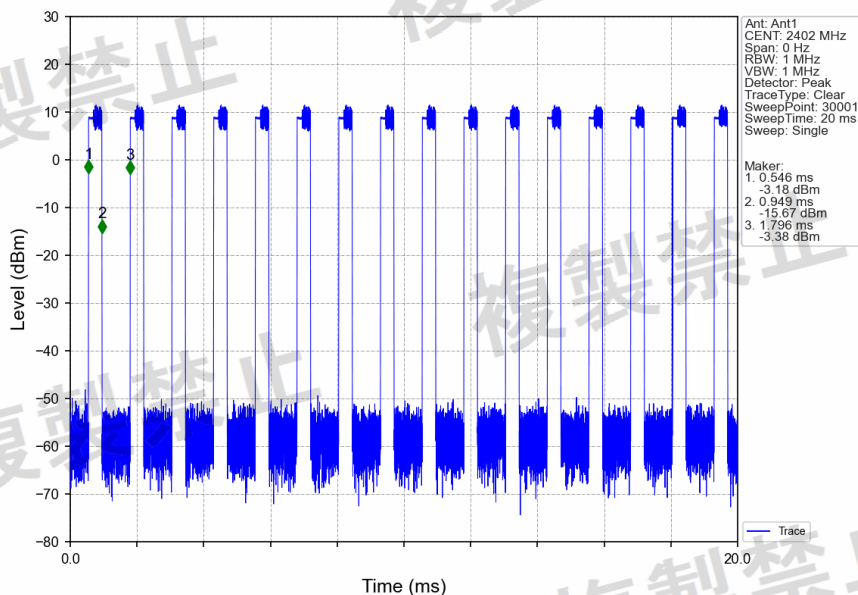
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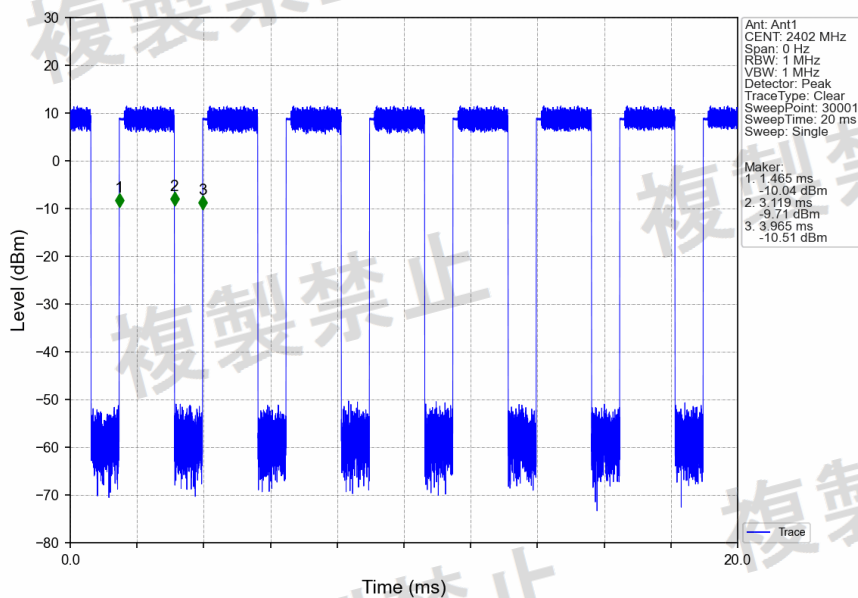
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8DPSK_3DH1_2402MHz_Ant1_NTNV



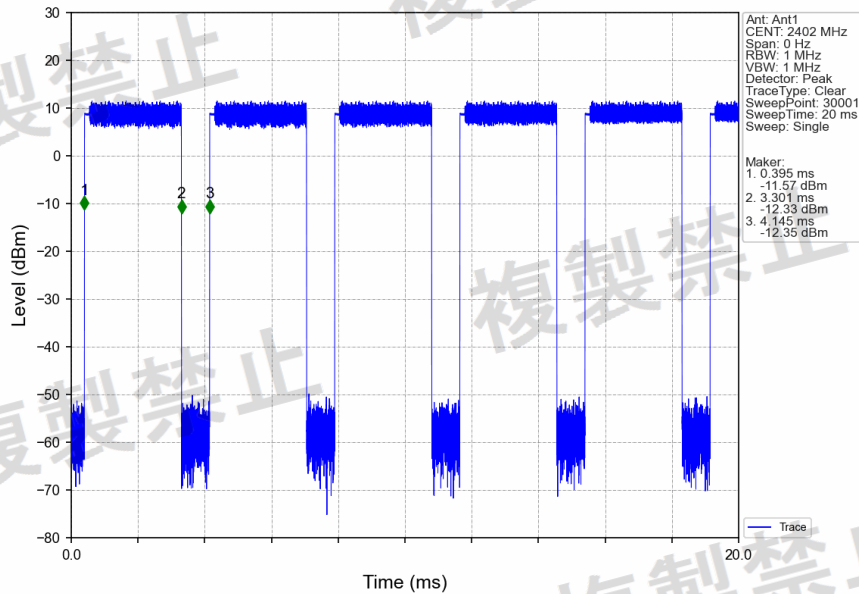
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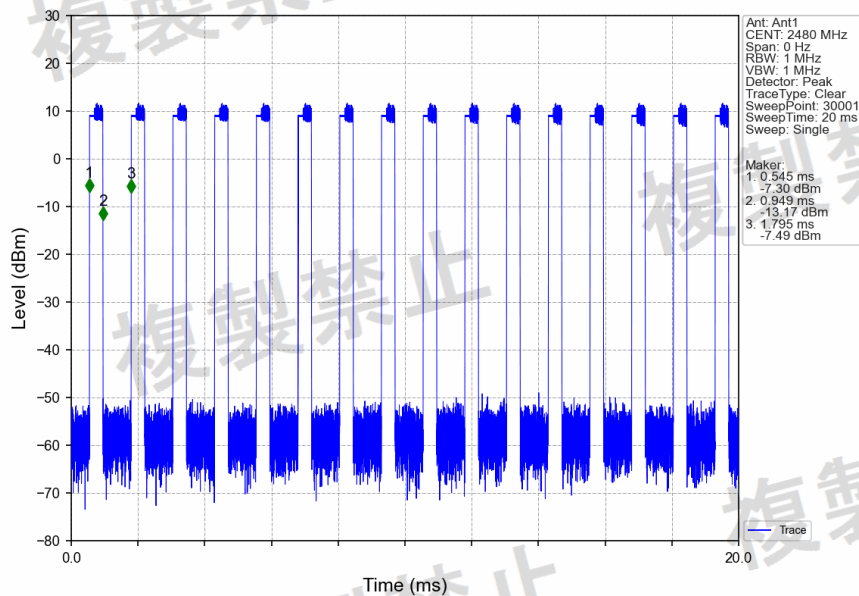
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8DPSK_3DH5_2402MHz_Ant1_NTNV



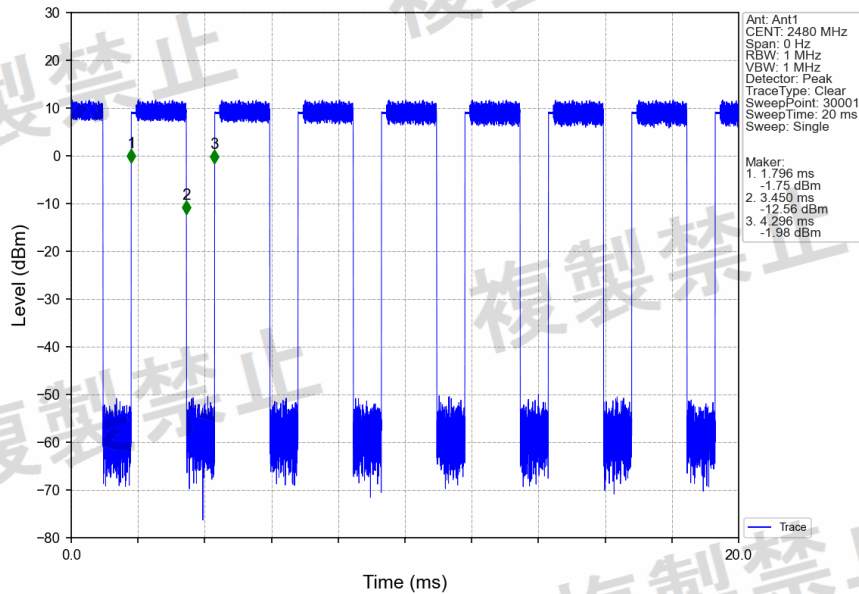
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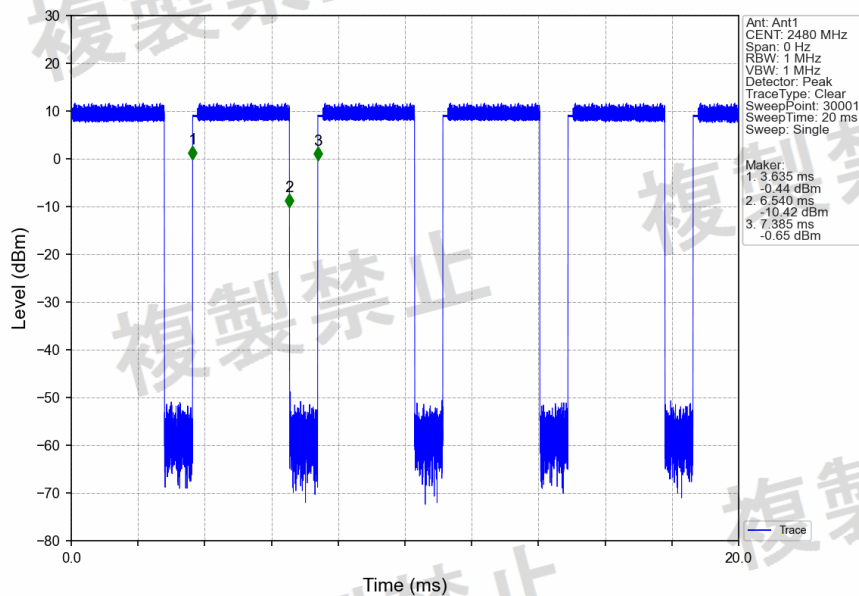
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8DPSK_3DH3_2480MHz_Ant1_NTNV



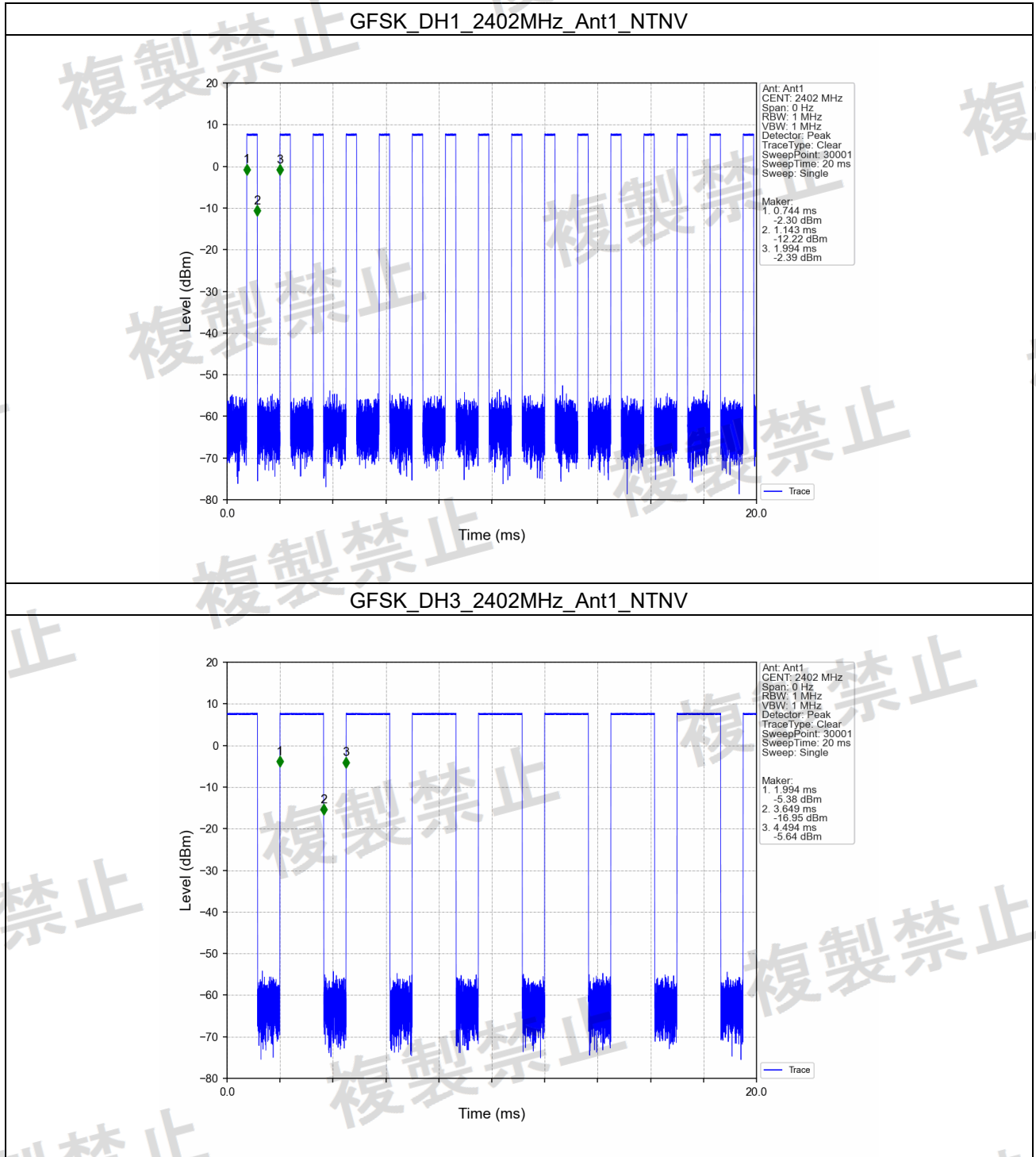
8DPSK_3DH5_2480MHz_Ant1_NTNV



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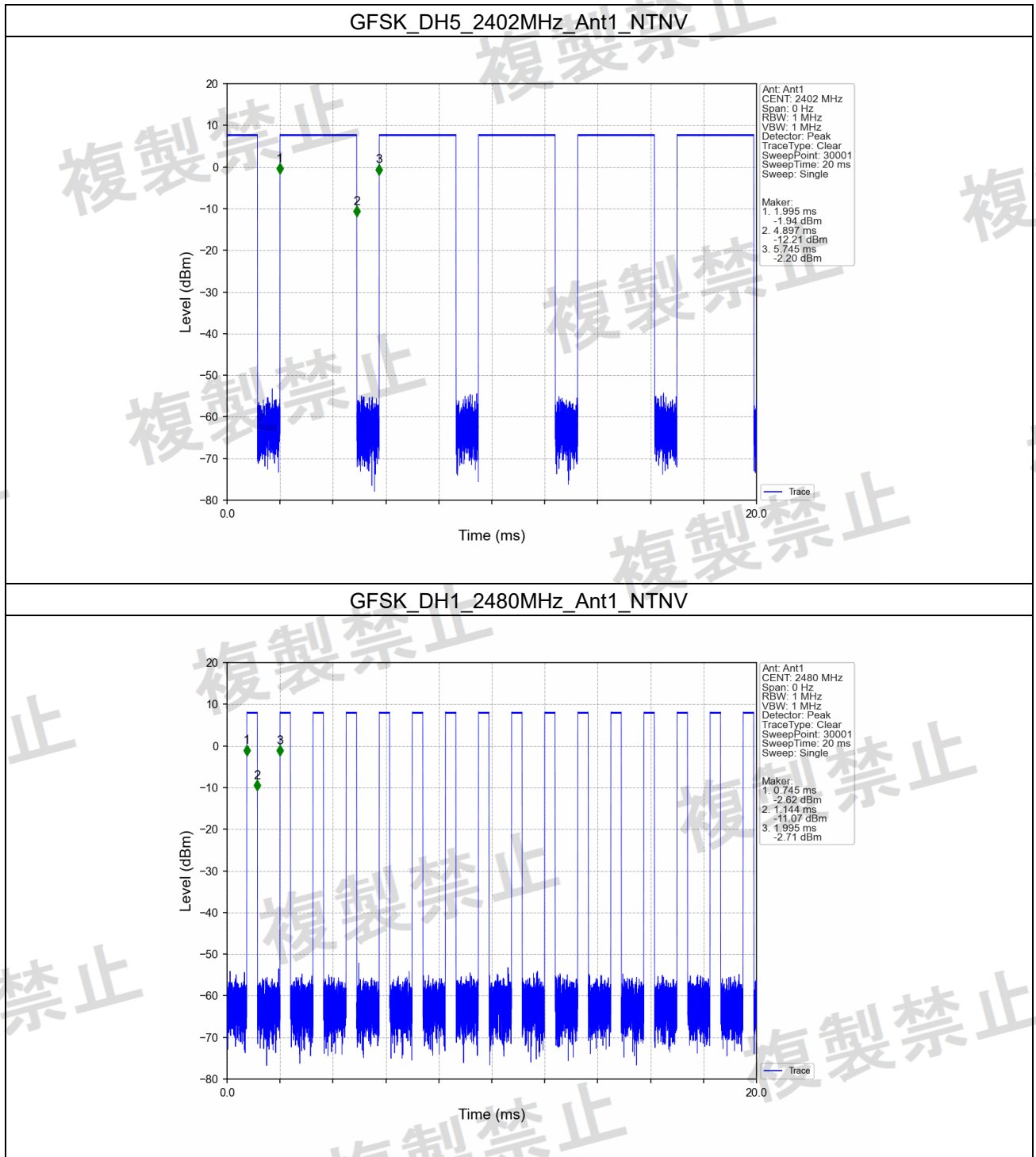
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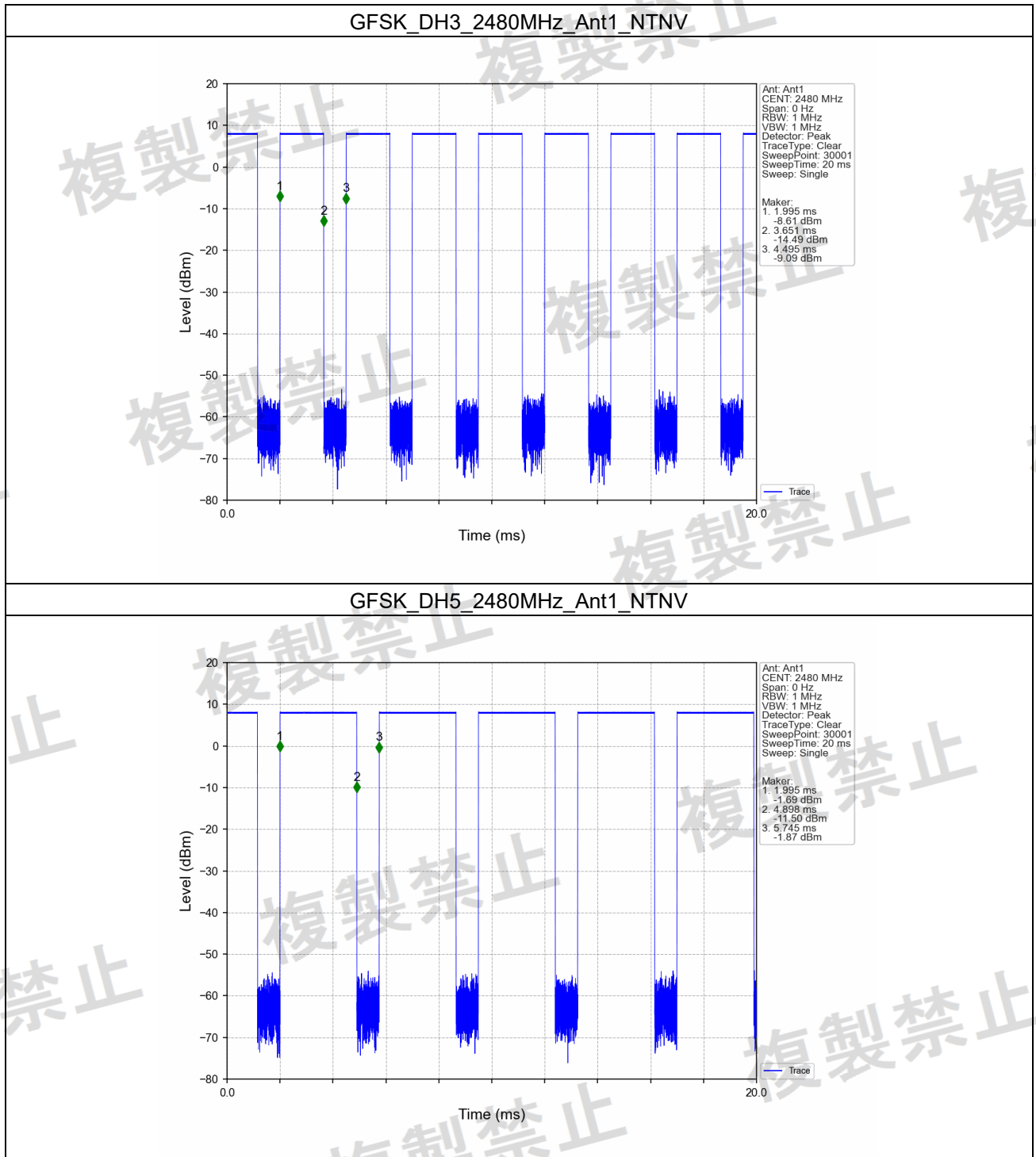
5.2.2 Ant1_HOPP20



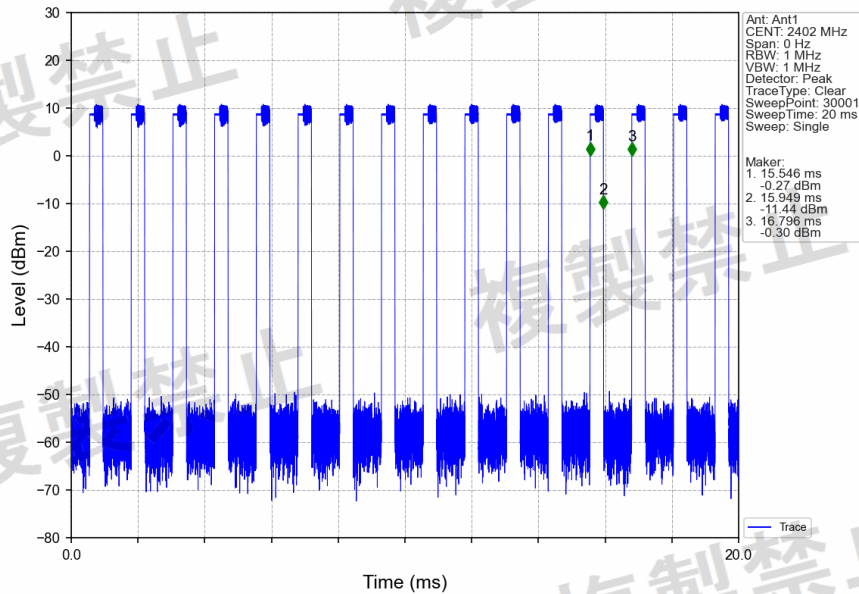
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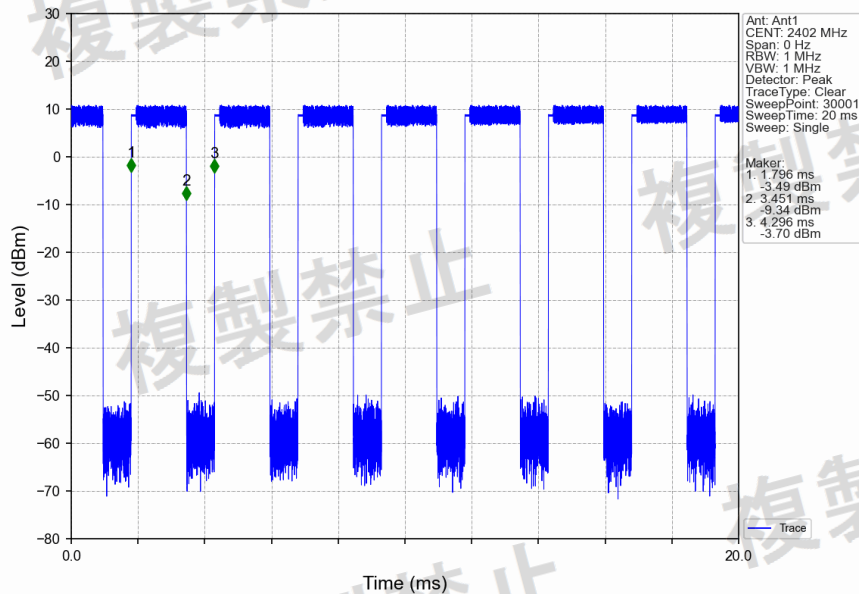




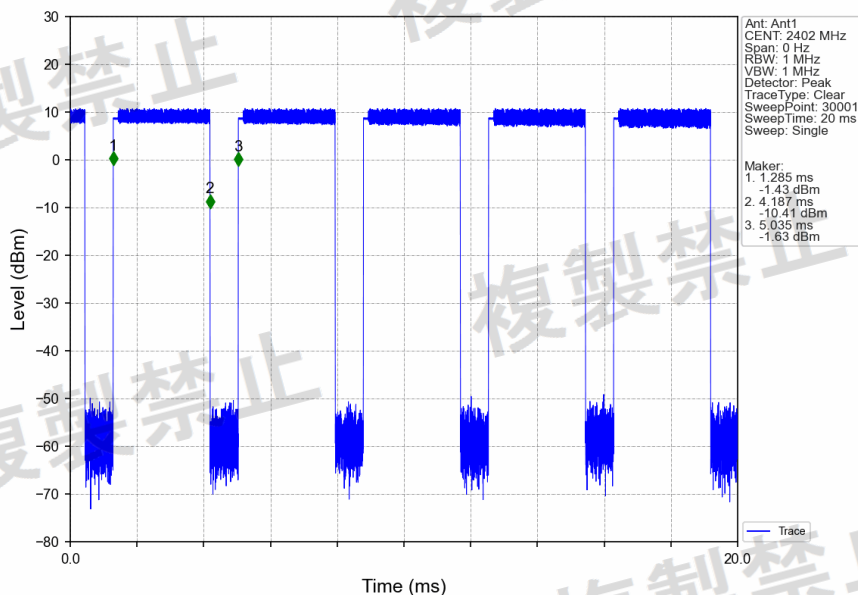
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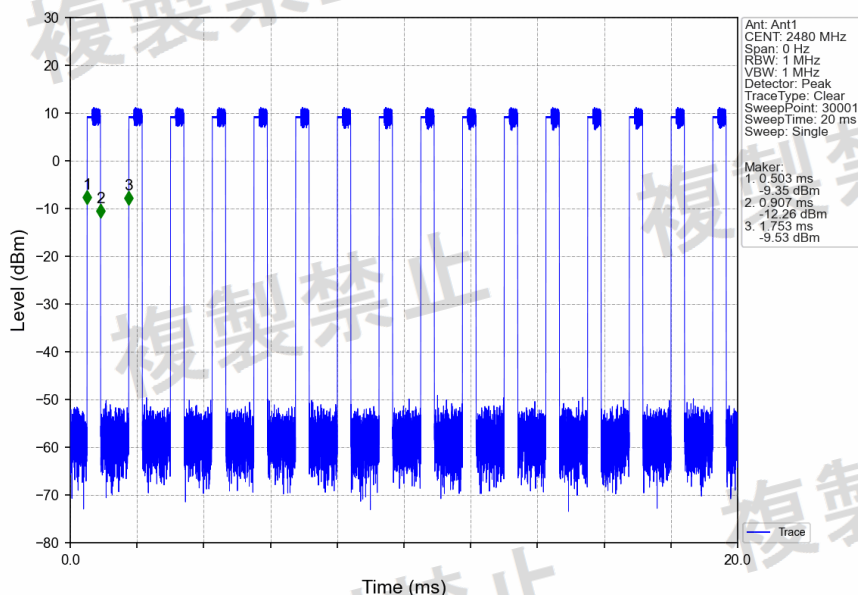
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



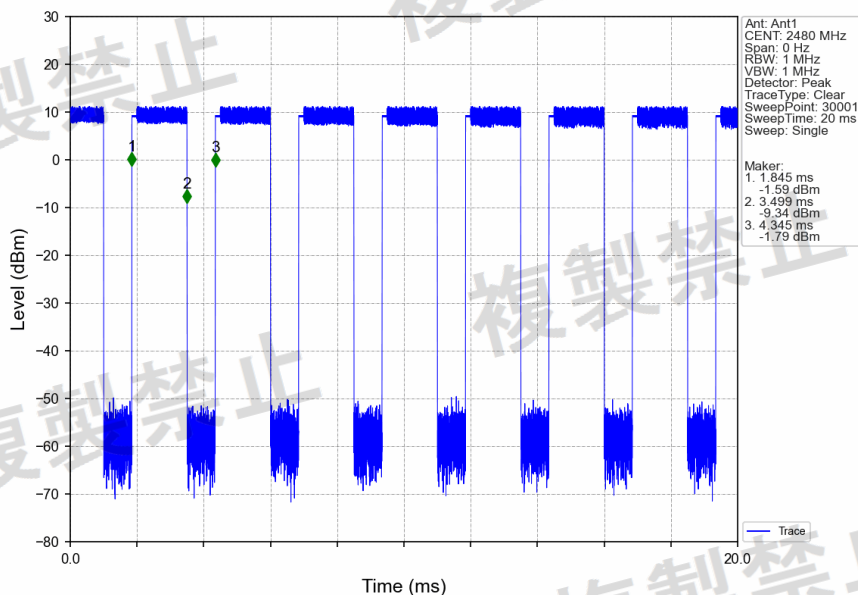
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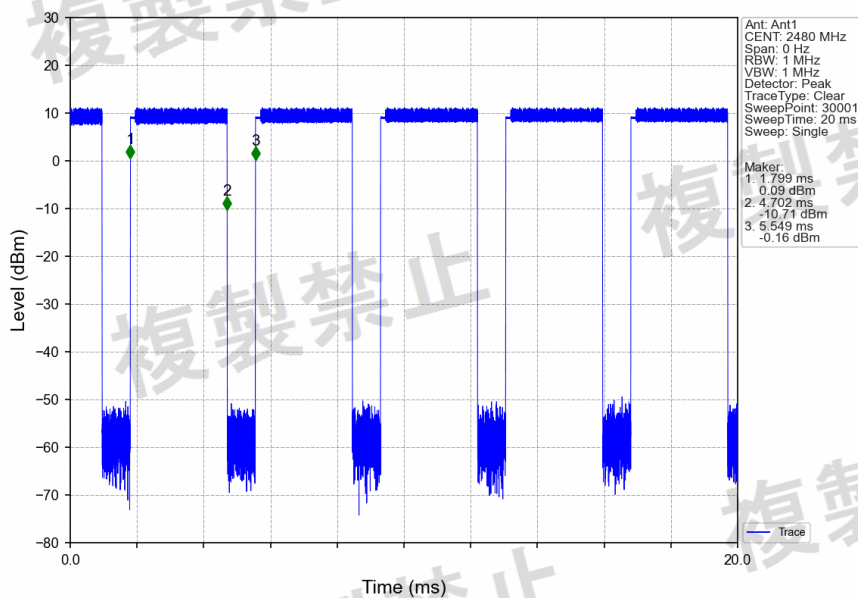
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



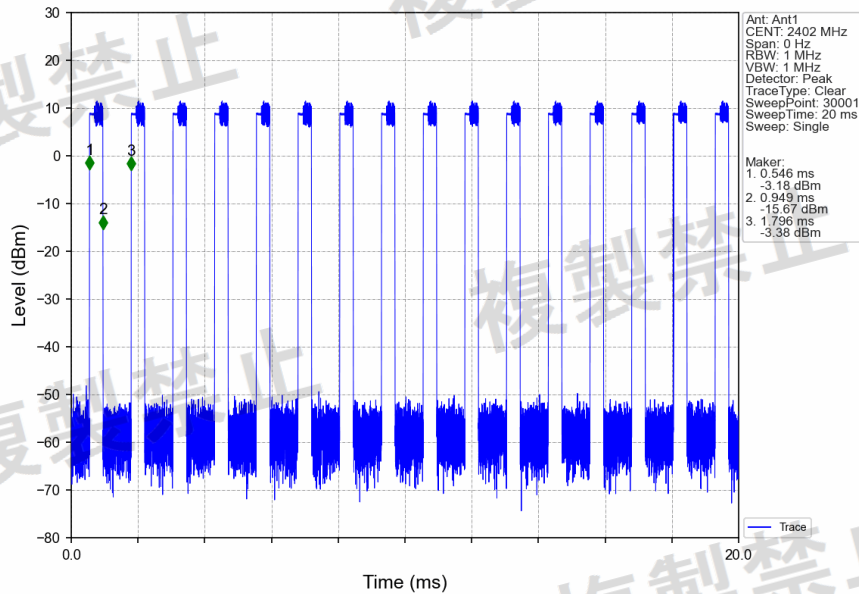
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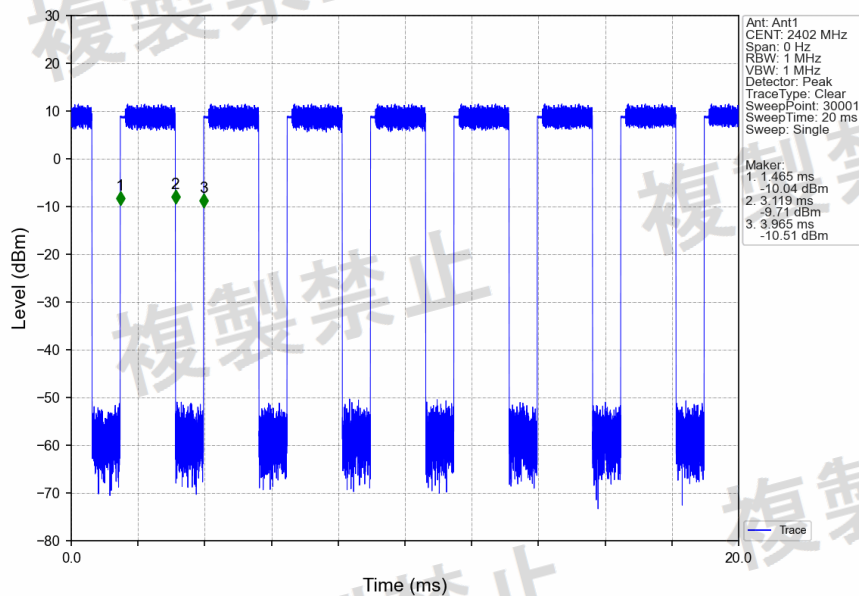
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8DPSK_3DH1_2402MHz_Ant1_NTNV



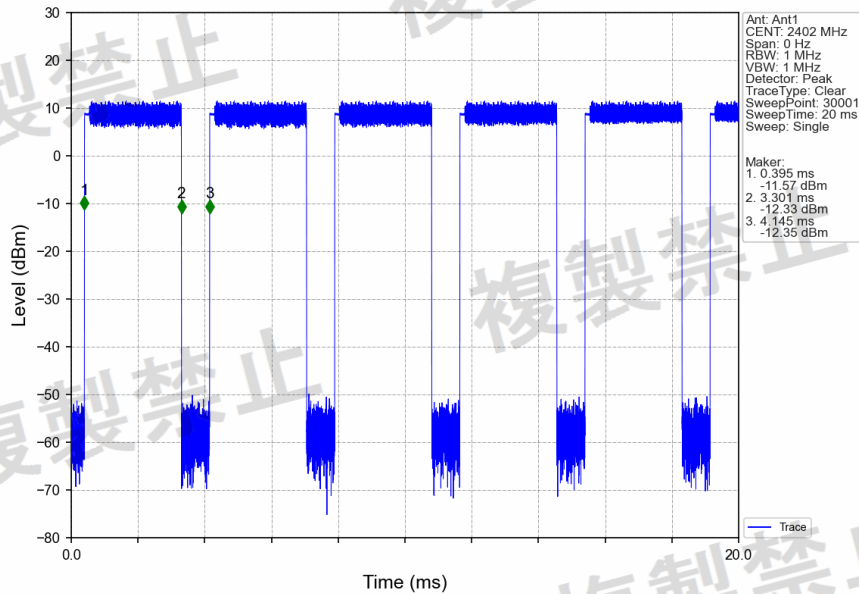
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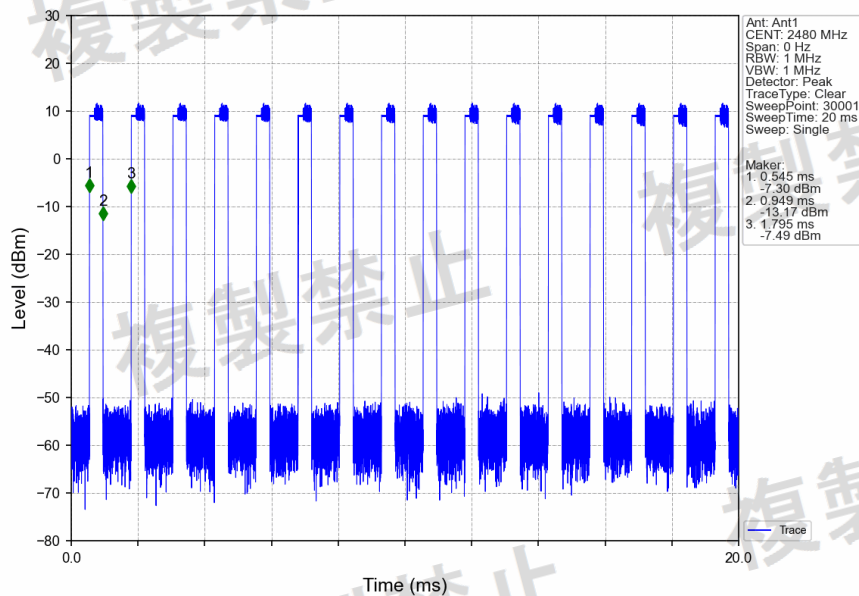
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8DPSK_3DH5_2402MHz_Ant1_NTNV



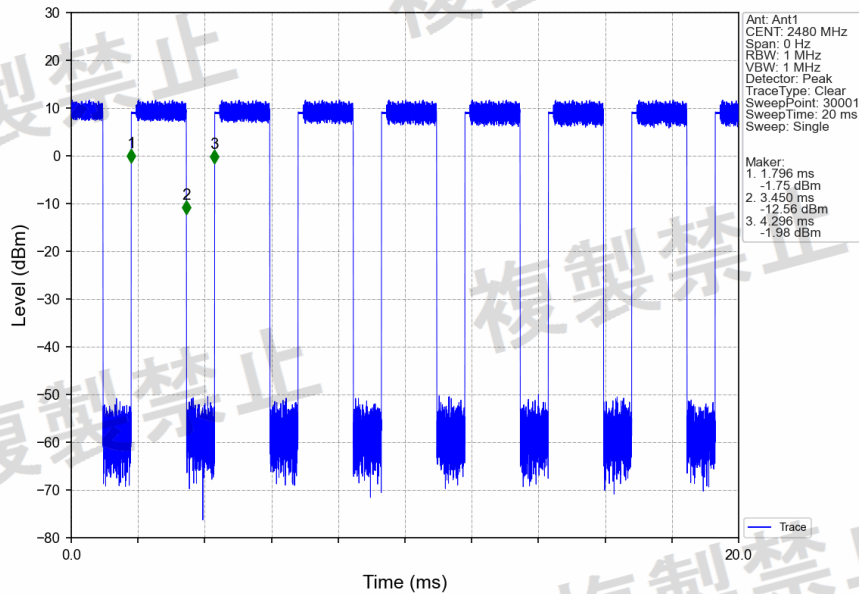
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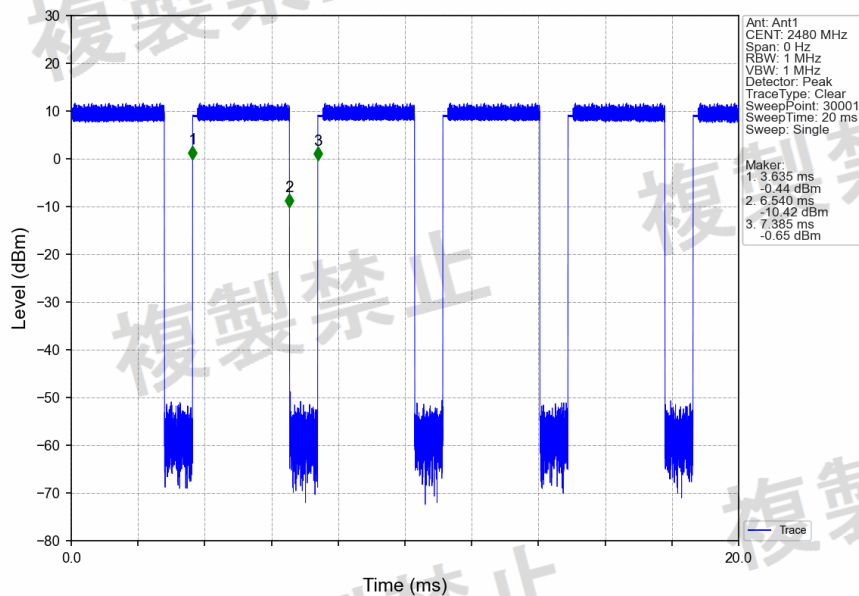
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8DPSK_3DH3_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



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6. Spurious Emission Intensity

6.1 Test Result

6.1.1 TxSe_NTNV

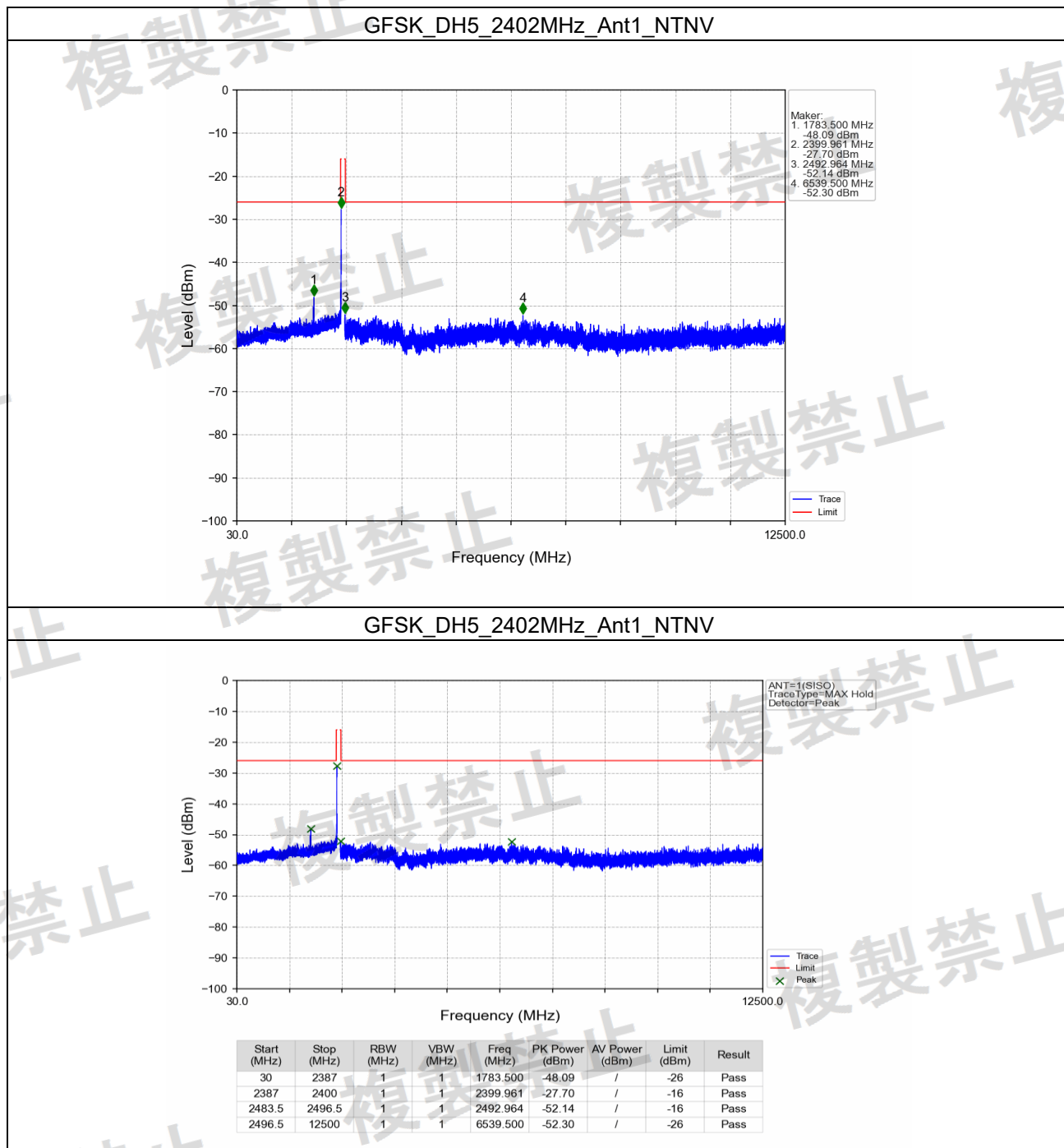
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	1783.5	-48.09	0.016	/	/	2.5	Pass
				2387	2400	2399.961	-27.70	1.698	/	/	25	Pass
				2483.5	2496.5	2492.964	-52.14	0.006	/	/	25	Pass
				2496.5	12500	6539.5	-52.30	0.006	/	/	2.5	Pass
		2480	1	30	2387	2297	-52.15	0.006	/	/	2.5	Pass
				2387	2400	2393.643	-51.82	0.007	/	/	25	Pass
				2483.5	2496.5	2483.539	-41.41	0.072	/	/	25	Pass
				2496.5	12500	2500	-51.96	0.006	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2213.5	-47.48	0.018	/	/	2.5	Pass
				2387	2400	2399.987	-23.33	4.645	/	/	25	Pass
				2483.5	2496.5	2487.556	-47.70	0.017	/	/	25	Pass
				2496.5	12500	3671	-47.87	0.016	/	/	2.5	Pass
		2480	1	30	2387	2371.5	-47.18	0.019	/	/	2.5	Pass
				2387	2400	2391.693	-47.80	0.017	/	/	25	Pass
				2483.5	2496.5	2483.539	-41.36	0.073	/	/	25	Pass
				2496.5	12500	2680.5	-47.14	0.019	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2133	-47.61	0.017	/	/	2.5	Pass
				2387	2400	2399.987	-21.88	6.486	/	/	25	Pass
				2483.5	2496.5	2492.834	-47.89	0.016	/	/	25	Pass
				2496.5	12500	6510.5	-47.60	0.017	/	/	2.5	Pass
		2480	1	30	2387	2058.5	-47.79	0.017	/	/	2.5	Pass
				2387	2400	2396.022	-47.76	0.017	/	/	25	Pass
				2483.5	2496.5	2483.526	-40.84	0.082	/	/	25	Pass
				2496.5	12500	3193	-48.13	0.015	/	/	2.5	Pass

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6.2 Test Graph

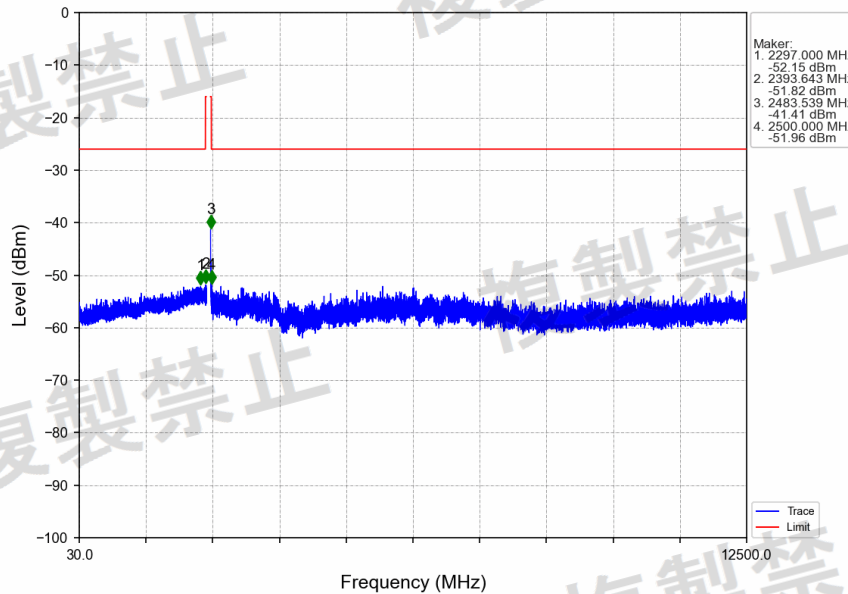
6.2.1 TxSe_NTNV



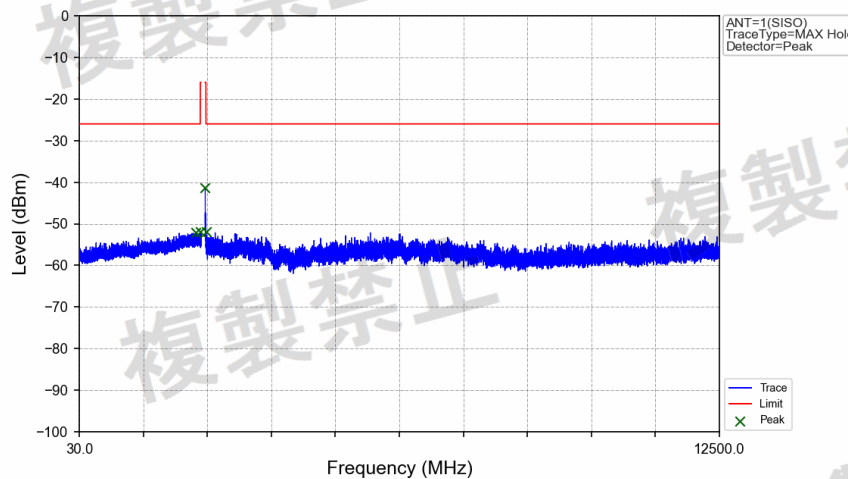
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GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

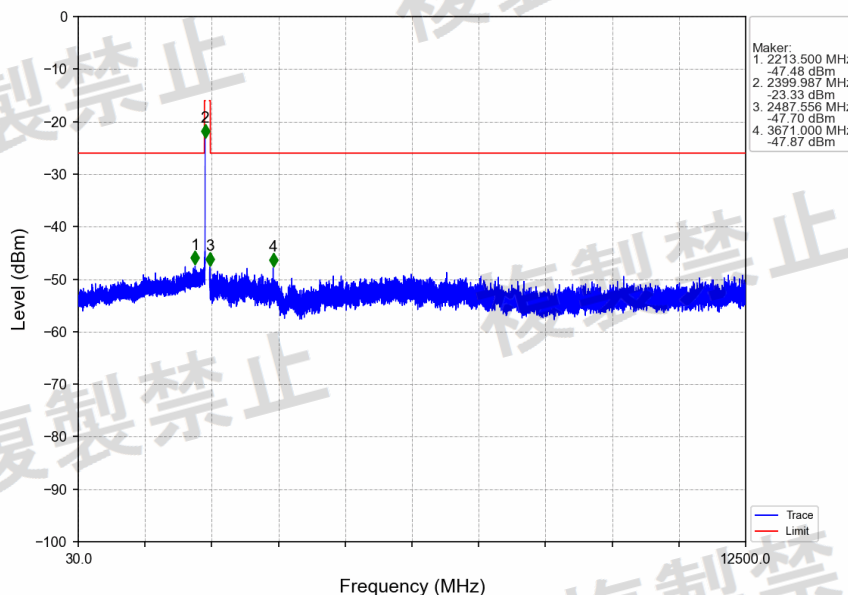


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2297.000	-52.15	/	-26	Pass
2387	2400	1	1	2393.643	-51.82	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-41.41	/	-16	Pass
2496.5	12500	1	1	2500.000	-51.96	/	-26	Pass

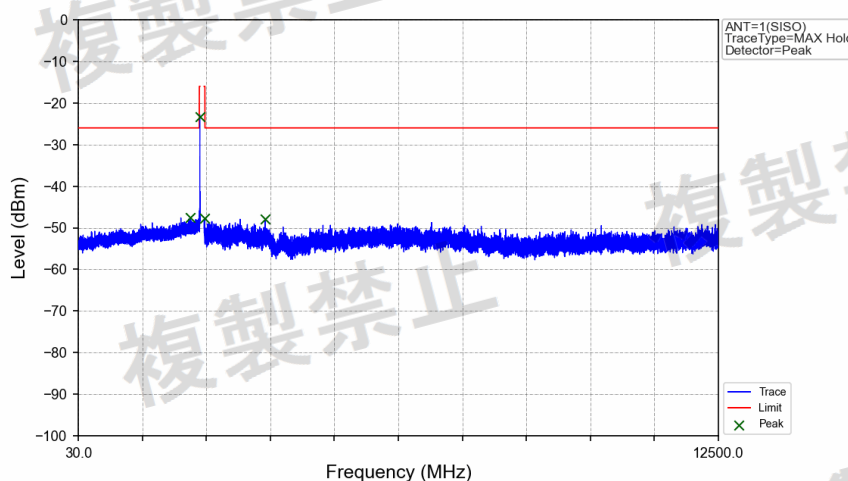
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

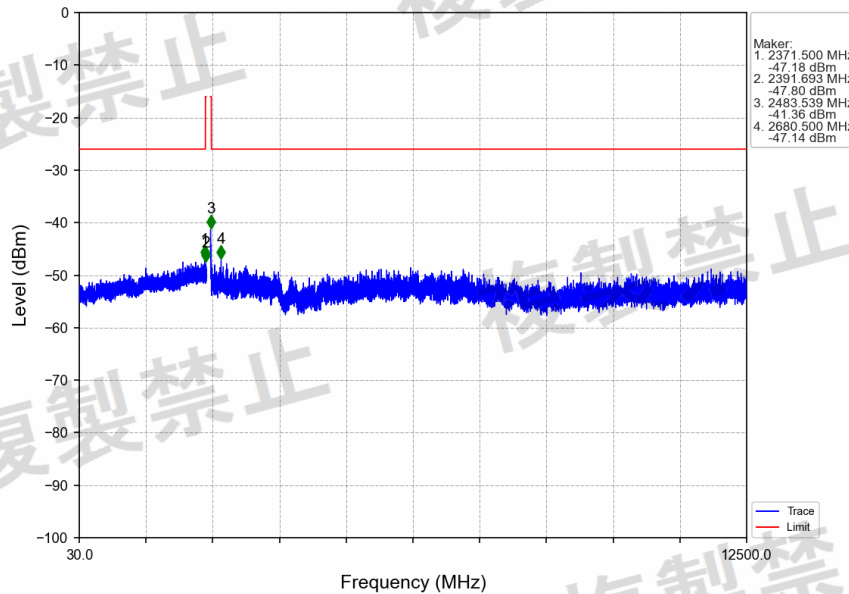


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2213.500	-47.48	/	-26	Pass
2387	2400	1	1	2399.987	-23.33	/	-16	Pass
2483.5	2496.5	1	1	2487.556	-47.70	/	-16	Pass
2496.5	12500	1	1	3671.000	-47.87	/	-26	Pass

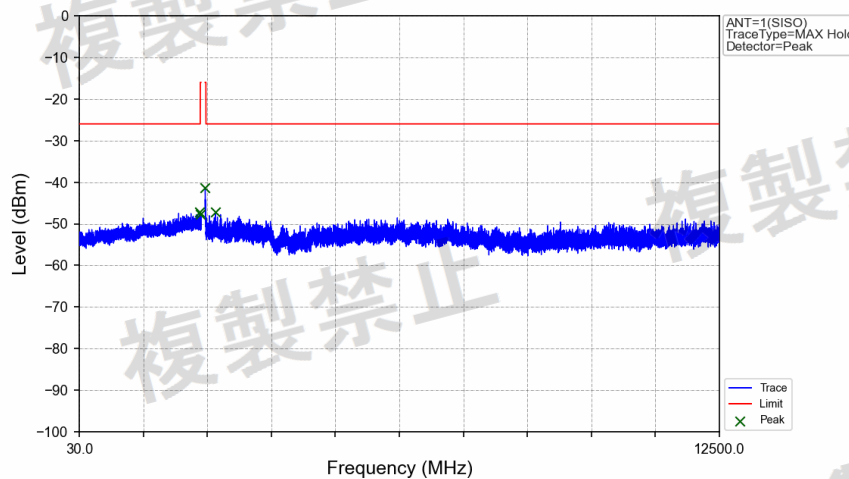
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

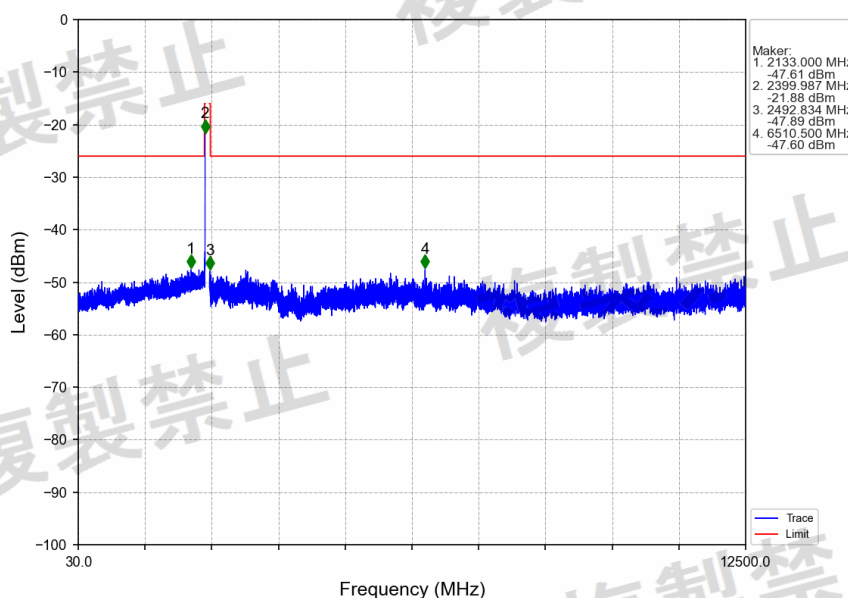


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2371.500	-47.18	/	-26	Pass
2387	2400	1	1	2391.693	-47.80	/	-16	Pass
2483.5	2496.5	1	1	2483.539	-41.36	/	-16	Pass
2496.5	12500	1	1	2680.500	-47.14	/	-26	Pass

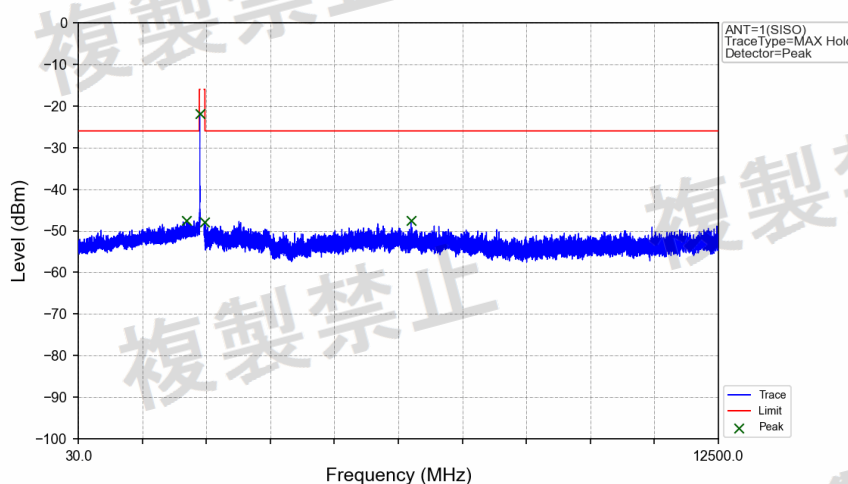
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

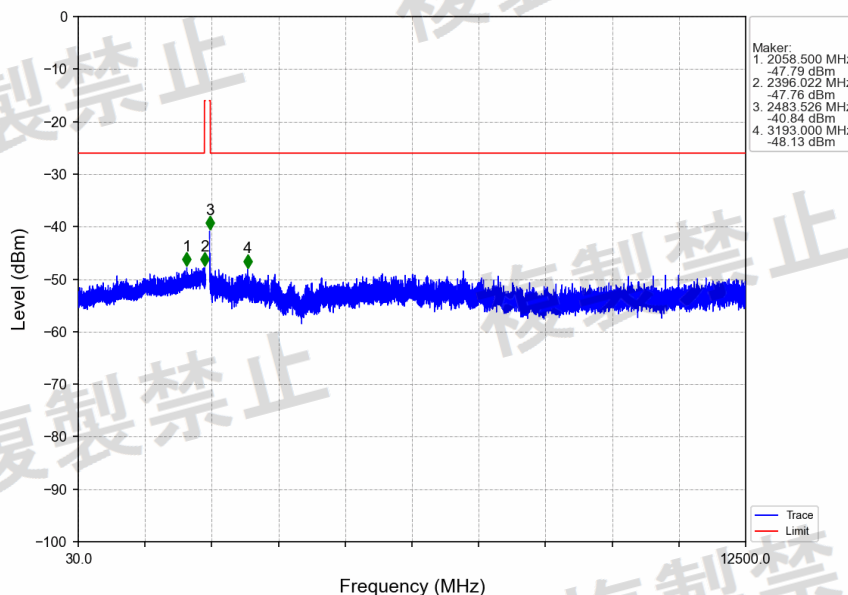


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2133.000	-47.61	/	-26	Pass
2387	2400	1	1	2399.987	-21.88	/	-16	Pass
2483.5	2496.5	1	1	2492.834	-47.89	/	-16	Pass
2496.5	12500	1	1	6510.500	-47.60	/	-26	Pass

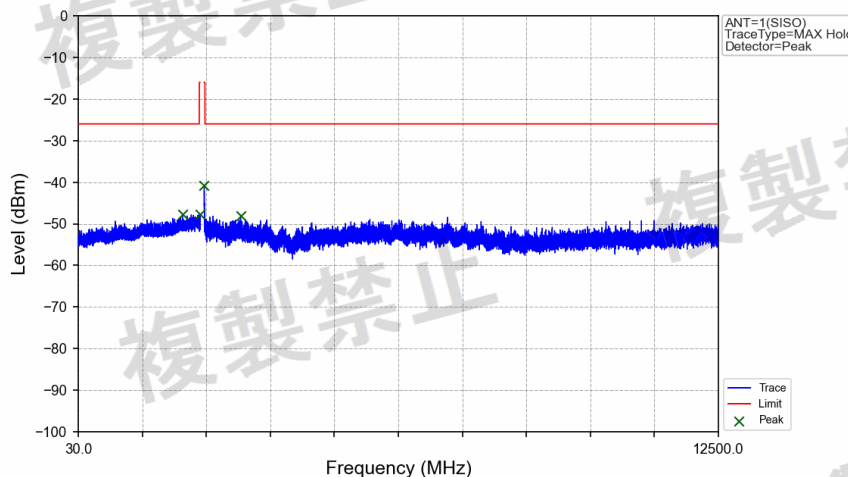
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2058.500	-47.79	/	-26	Pass
2387	2400	1	1	2396.022	-47.76	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-40.84	/	-16	Pass
2496.5	12500	1	1	3193.000	-48.13	/	-26	Pass

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7. Secondary Radiated Emission

7.1 Test Result

7.1.1 RxSe_NTNV

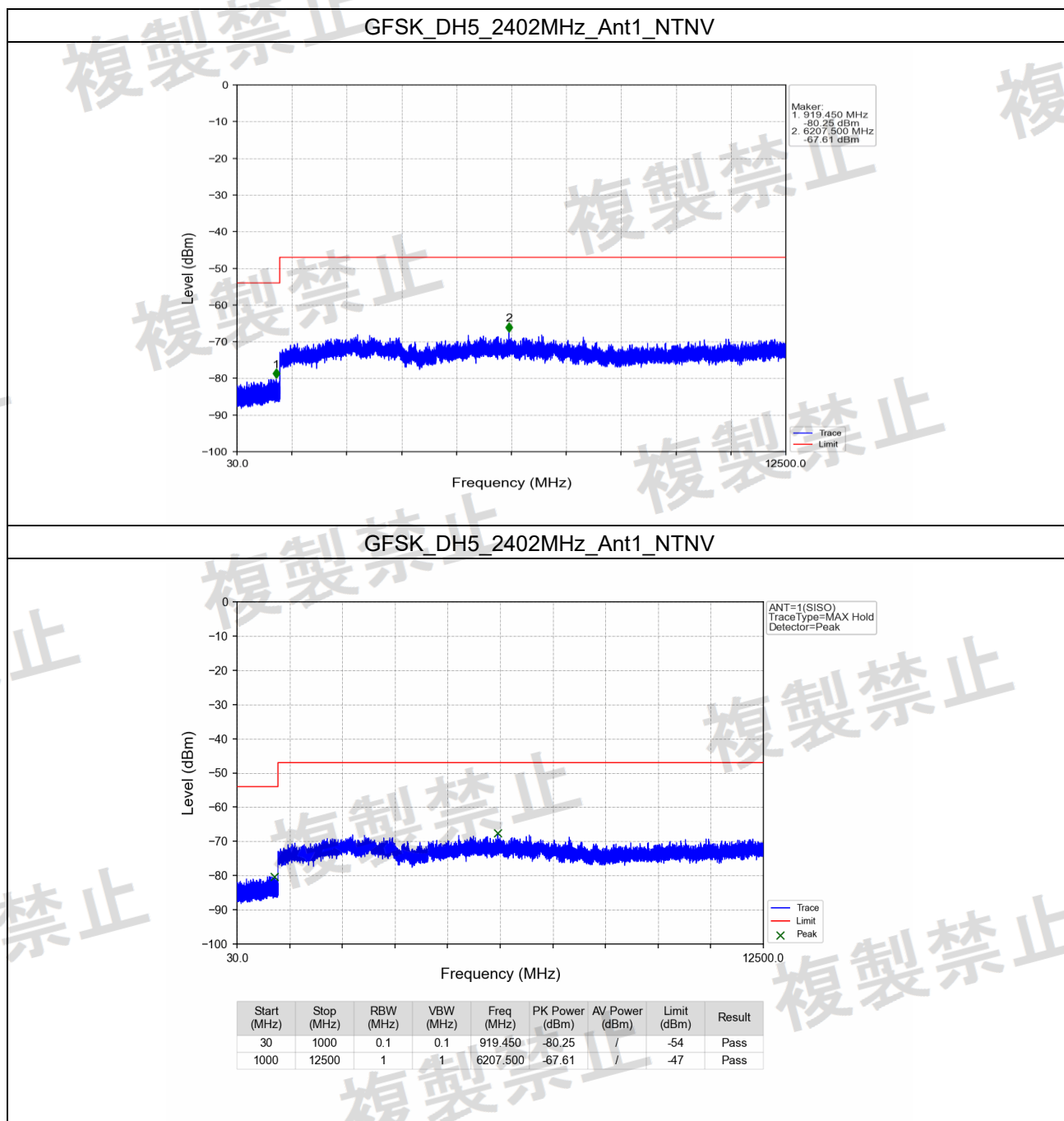
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	919.45	-80.25	0.009	/	/	4	Pass
				1000	12500	6207.5	-67.61	0.173	/	/	20	Pass
		2480	1	30	1000	754.2	-80.24	0.009	/	/	4	Pass
				1000	12500	2747.5	-67.20	0.191	/	/	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	840.65	-79.49	0.011	/	/	4	Pass
				1000	12500	2686	-68.19	0.152	/	/	20	Pass
		2480	1	30	1000	776.75	-79.71	0.011	/	/	4	Pass
				1000	12500	3308	-67.61	0.173	/	/	20	Pass
8DPSK	SISO	2402	1	30	1000	898.9	-80.15	0.010	/	/	4	Pass
				1000	12500	5829	-67.81	0.166	/	/	20	Pass
		2480	1	30	1000	944.05	-80.18	0.010	/	/	4	Pass
				1000	12500	3683	-66.86	0.206	/	/	20	Pass

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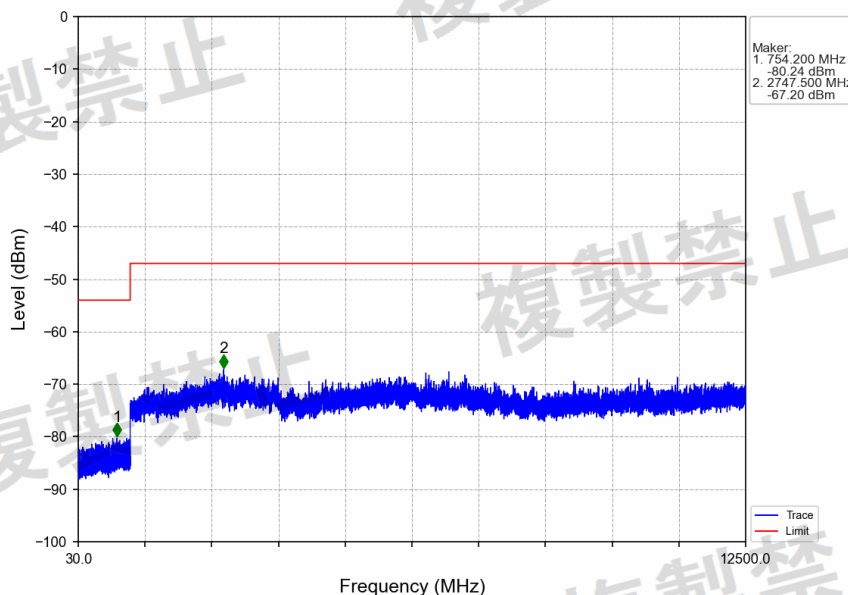
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7.2 Test Graph

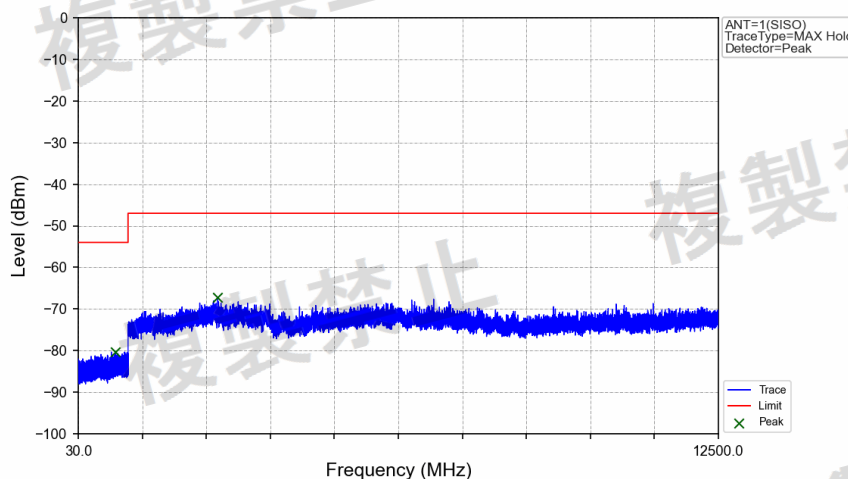
7.2.1 RxSe_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

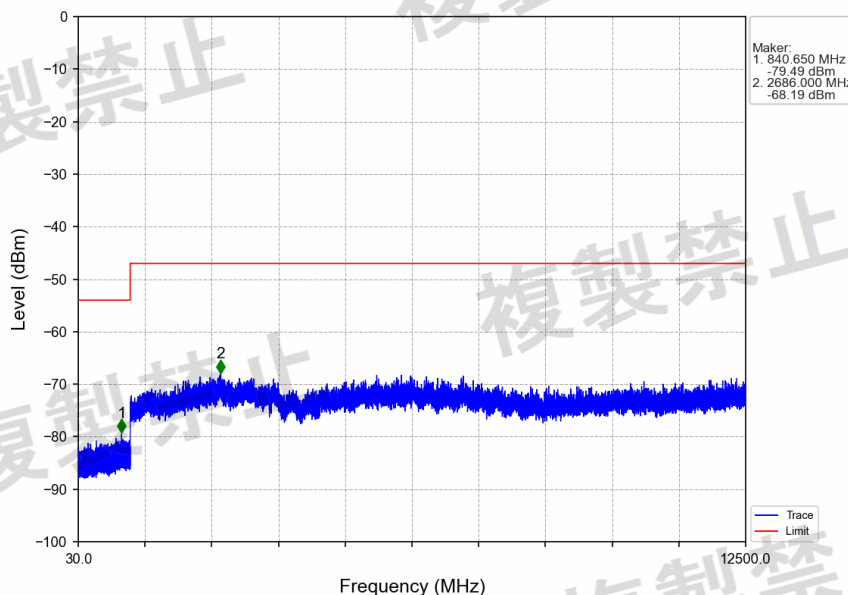


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	754.200	-80.24	/	-54	Pass
1000	12500	1	1	2747.500	-67.20	/	-47	Pass

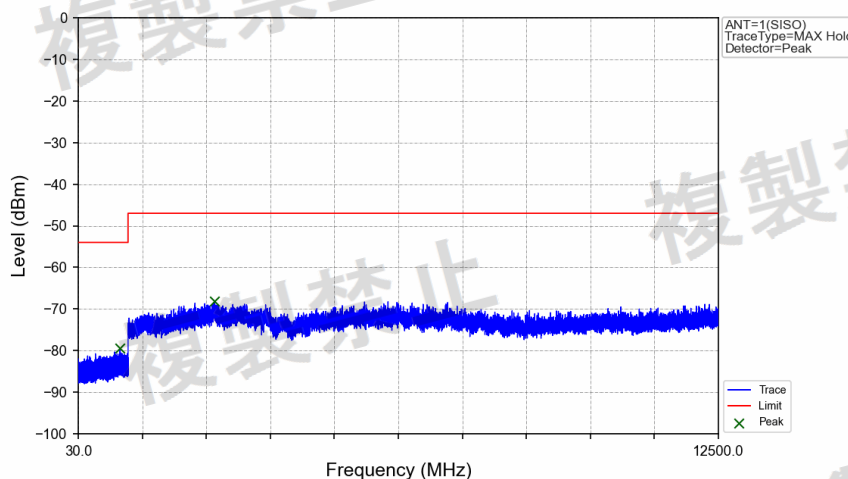
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

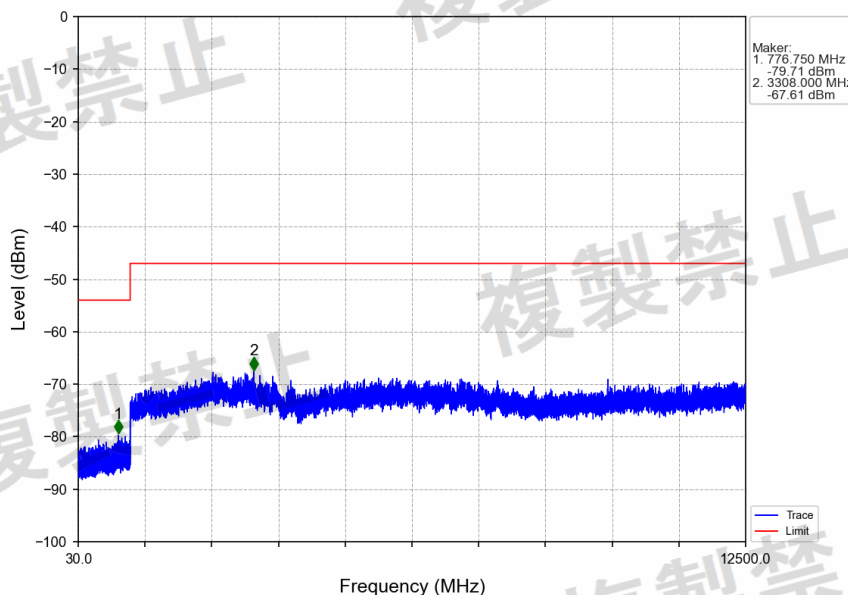


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	840.650	-79.49	/	-54	Pass
1000	12500	1	1	2686.000	-68.19	/	-47	Pass

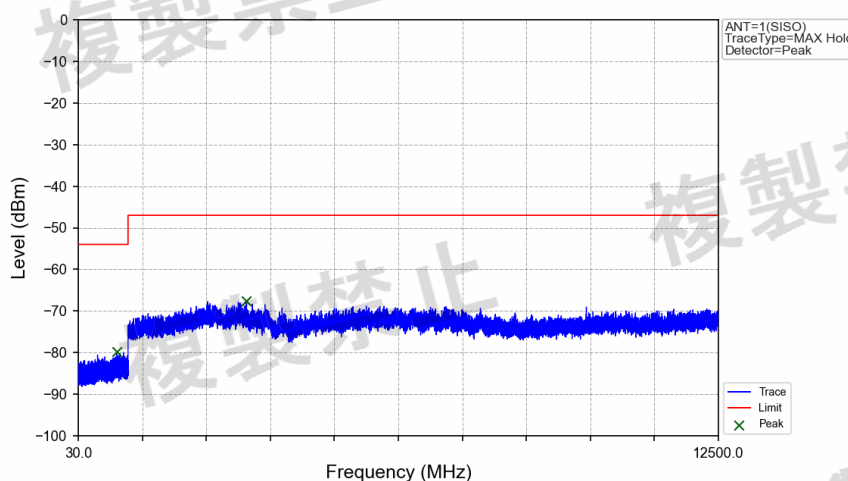
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

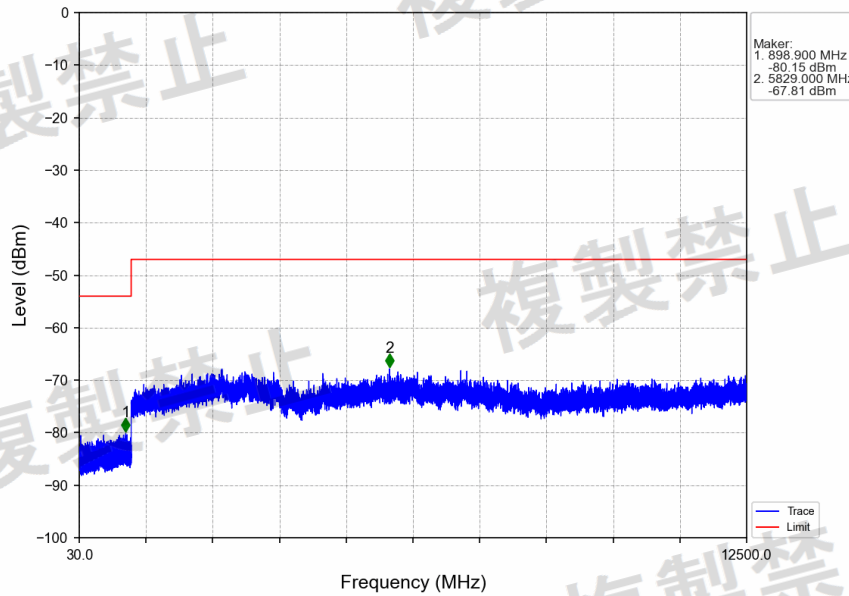


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	776.750	-79.71	/	-54	Pass
1000	12500	1	1	3308.000	-67.61	/	-47	Pass

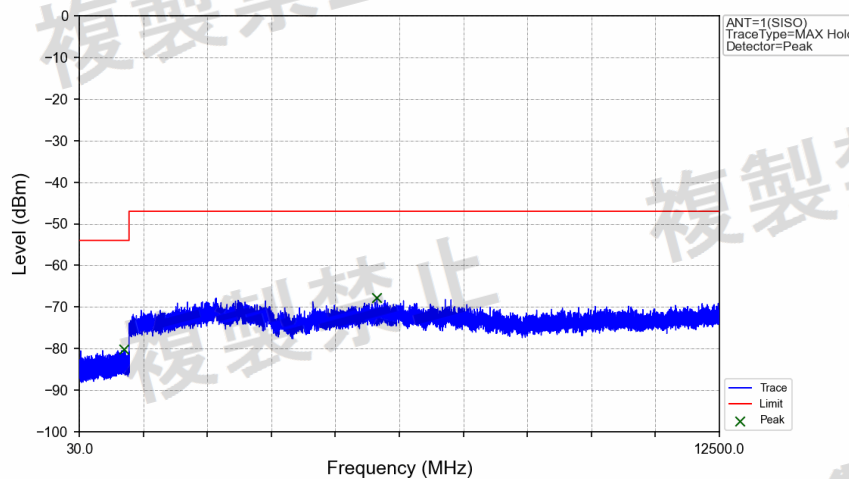
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

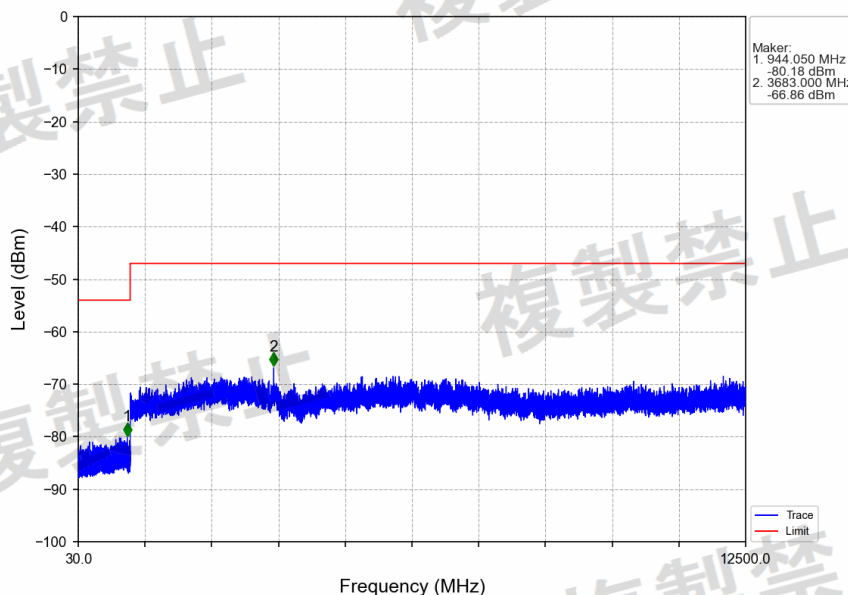


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	898.900	-80.15	/	-54	Pass
1000	12500	1	1	5829.000	-67.81	/	-47	Pass

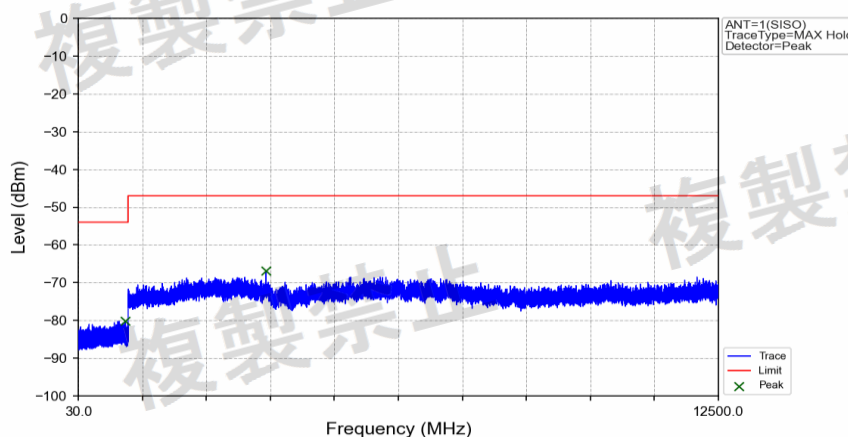
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	944.050	-80.18	/	-54	Pass
1000	12500	1	1	3683.000	-66.86	/	-47	Pass

- End of the Report -

