

TEST REPORT

Application No.: GZCR2503000298AT
Applicant: Geosolution i Goteborg AB
Address of Applicant: Stora Avagen 21, 436 34 ASKIM, Sweden
Manufacturer: Geosolution i Goteborg AB
Address of Manufacturer: Stora Avagen 21, 436 34 ASKIM, Sweden
Factory: Geosolution i Goteborg AB
Address of Factory: Stora Avagen 21, 436 34 ASKIM, Sweden
Product Name: Total Station
Model No.: ART1, SP200 ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: SATLAB
Standard(s): MIC Item 19 of Article 2 Paragraph 1
Date of Receipt: 2025-03-05
Date of Test: 2025-04-08
Date of Issue: 2025-11-24

Test Result:**Pass***

* In the configuration tested, the EUT complied with the standards specified above.



Revision Record			
Version	Report No.	Date	Remark
01	GZCR250300029801	2025-11-24	Original

Authorized for issue by:		
	<i>Key Liang</i>	
	Key Liang/Project Engineer	
	<i>Vico Cui</i>	
	Vico Cui/Reviewer	



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	Only For Report
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
Transmitting Antenna Absolute Gain		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A*
Half Power Beam Angle		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A*
Carrier Sensing Function		MIC Notice No.88 Appendix No.4	MIC Item 19 of Article 2 Paragraph 1	N/A*

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

N/A*: Not applicable.



***Remark:**

1. For the E.I.R.P test data refer to the Appendix for details(P51).
2. The max $EIRP = -0.60 \text{ dBm} \leq 6.91 \text{ dBm}$, so the Transmitting Antenna Absolute Gain & HBPA exemption testing.
3. Application to transmitting devices which E.I.R.P. is less than [2.14 dBi+ antenna power limit] and the shortage of E.I.R.P. is compensated by antenna power, so the Carrier Sensing Function exemption testing.

✦ Declaration of EUT Family Grouping:**Model No.: ART1, SP200**

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the model name & product label.

Therefore only one model ART1 was evaluated in this report.



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

EMC-TRF-01 Rev 2.0

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4 General Information

4.1 Details of E.U.T.

Power supply:

Battery operation:

Model: BL-5000QT

Capacity: 14.4V/5Ah(Typical)/14.4V/4.9Ah(Rated)/70.56Wh

Nominal Voltage: 14.4V

Max Charging Voltage: 16.8V

Cable(s):

Type-C Port

SD Card port

Operation Frequency:

2402MHz to 2480MHz

Modulation Type:

GFSK, p/4DQPSK, 8DPSK

Channel Spacing:

1MHz

Number of Channels:

79

Antenna Type:

Integral Antenna

Antenna Gain:

2 dBi declared by applicant.

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.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Frequency Error	$\pm 7.25 \text{ E-8}$
Occupied Bandwidth(99%)	$\pm 0.274\%$
Spread spectrum Bandwidth(90%)	$\pm 0.274\%$
Antenna Power	$\pm 0.75\text{dB}$
Dwell time	$\pm 0.029\%$
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 $U_{\text{cisp}} (\text{CISPR Uncertainty})$ or $U_{\text{ETSI}} (\text{ETSI Uncertainty})$. Emission decision rule: – Compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit, marked as Pass in the report. – Non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit, marked as Fail in the report.	

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555

No tests were sub-contracted.



4.5 Test Facility

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

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

RF conducted test							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	Cal. Body	Cal. Law
MI CABLE	SGS-EMC	0.8M	EMC2137	2024-11-02	2025-11-01	SGS	Article 24-2, Paragraph 4 of the Radio Act
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2024-08-19	2025-08-18	GRG TEST	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2024-08-19	2025-08-18	GRG TEST	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	N/A	N/A

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	Cal. Body	Cal. Law
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02	CEPREI	Article 24-2, Paragraph 4 of the Radio Act

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6 Radio Spectrum Technical Requirement

6.1 E.U.T. Test Conditions

Power supply:

INPUT: DC 14.4 V; The RF unit supplied by 3.3 V.

The EUT has the input voltage to the circuit of RF unit complies with output voltage limitation ($\pm 1\%$) against input voltage fluctuation ($\pm 10\%$).

So, all measurements were conducted at rated voltage DC 14.4 V, DC 12.96 V and DC 15.84 V.

The measurement result of the voltage fluctuation at RF circuit when DC 14.4 V $\pm 10\%$.

Mains input	Measured value	Voltage Deviation
DC 14.4 V	3.3 V	0 %
DC 12.96 V	3.3 V	0 %
DC 15.84 V	3.3V	0 %

Temperature:

-20.0 -55.0 °C

Humidity:

45-85 % RH

Atmospheric Pressure:

1000 -1010 mbar

Test frequencies:

If the EUT can be set to 3 of more different (carrier) frequencies in 1 allocated band, testing shall be performed using the Lowest, Middle and the Highest frequency (L, M and H). If there are 2 or fewer frequencies, testing shall be performed with the available frequencies.



6.2 Antenna Requirement

6.2.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

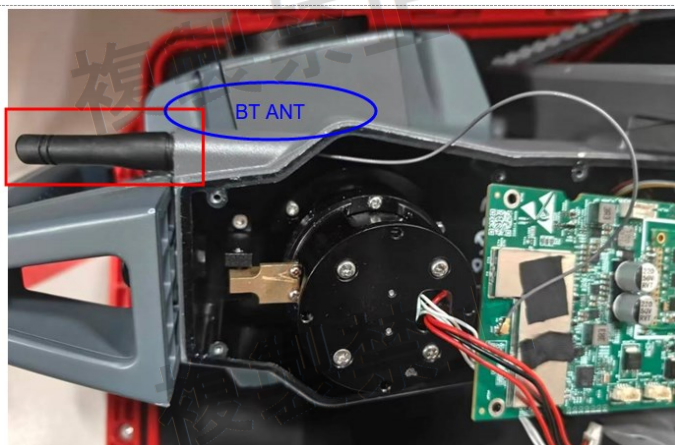
6.2.2 Conclusion

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 main PCB and no consideration of replacement. The best case gain of the antenna is 2 dBi.



Result:

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

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6.3 Interference prevention capability

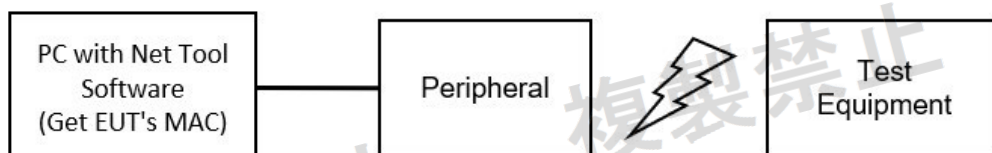
6.3.1 Test Requirement

MIC Item 19 of Article 2 Paragraph 1

Limit:

Article 2, Item (19) Notice 88 Appendix 43, 44, 45

6.3.2 Test Setup Diagram



6.3.3 Conclusion

Test Procedure:

- 1). in the case that the EUT has the function of automatically transmitting the identification code.
 - a. Transmit the predetermined identification codes form EUT.
 - b. Check the transmitted identification codes with the demodulator.
- 2). In the case of receiving the identification code.
 - a. Transmit the predetermined identification codes form the counterpart.
 - b. Check if communication is normal.
 - c. Transmit the signals other thanpredetemmined ID codes form the counterpart.
 - d. check if the EUT stops the transmission. or if itdisplays that identification codes are different from t he predetermined ones.

MAC address: **2A:5E:6C:2F:3D:3D**

EUT Details: The unit does meet the requirements (Good).



6.4 RF accessibility

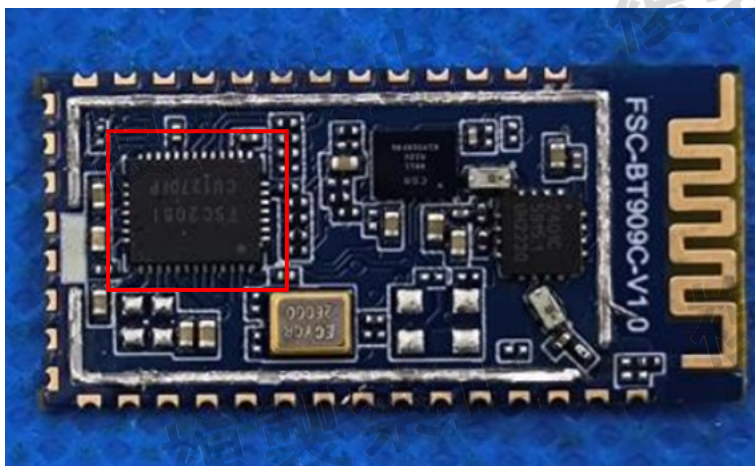
6.4.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.4.2 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:

RF and Modulation parts are mounted on PCB with surface mount technology, and there is no any adjustable parts 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
 Limit: Tolerance of frequency: $\pm 50\text{ppm}$

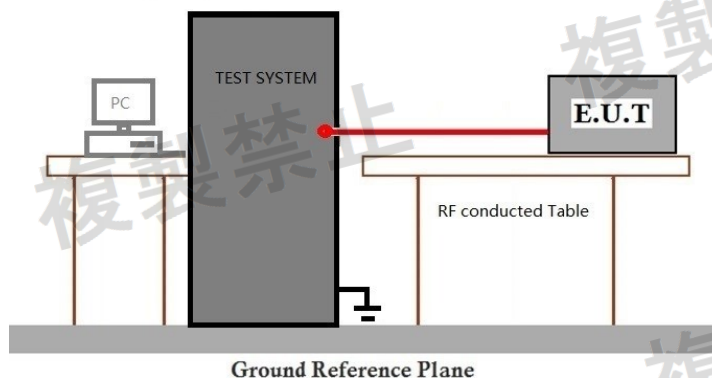
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

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

7.1.3 Test Setup Diagram



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
Limit:	FH: 83.5MHz or less OFDM: 40MHz or less Others: 26MHz or less

7.2.1 E.U.T. Operation

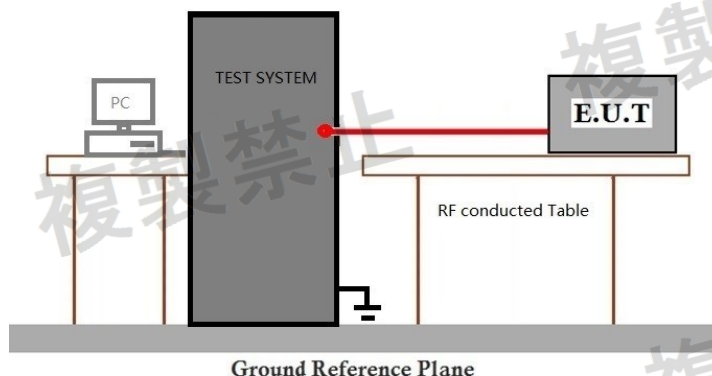
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C

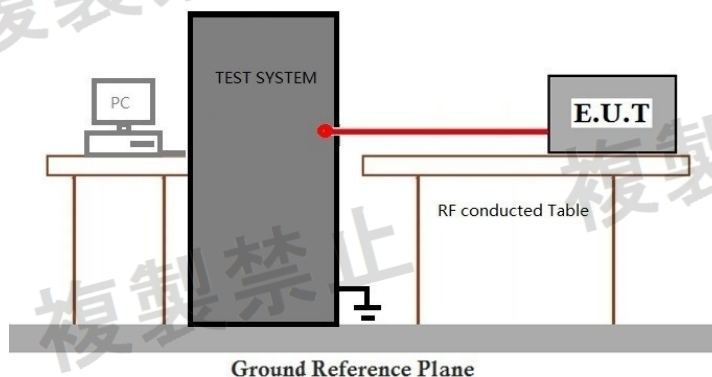
Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

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

7.3.3 Test Setup Diagram



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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 and E.I.R.P

Test Requirement	MIC Item 19 of Article 2 Paragraph 1
Test Method:	MIC Notice No.88 Appendix No.43
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%
	E.I.R.P:
	(1) DS, OFDM: 12.14 dBm/MHz
	(2) FH, DS+FH, FH+OFDM: 6.91 dBm /MHz (used in the range of 2400 - 2483.5 MHz)
	12.14 dBm /MHz (used in the range of 2,427 - 2,470.75 MHz)
	(3) Other than (1) & (2) 12.14 dBm/MHz.

7.4.1 E.U.T. Operation

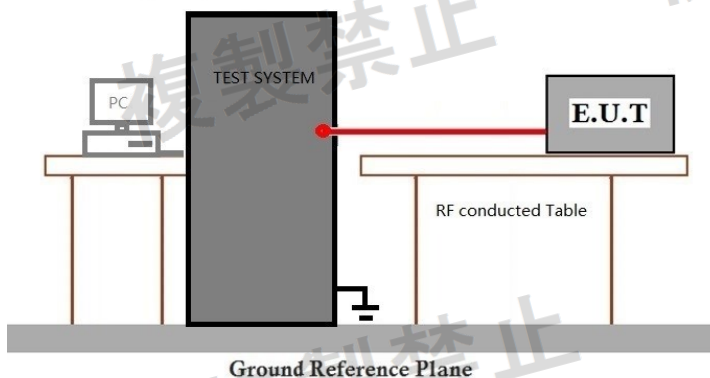
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 00	TX mode_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
Limit:	less than 0.4sec

7.5.1 E.U.T. Operation

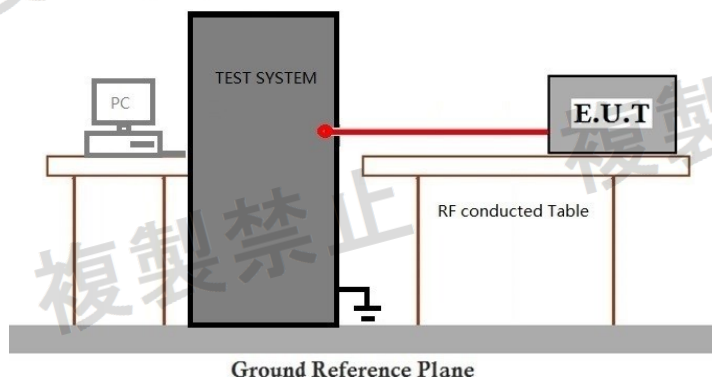
Operating Environment:

Temperature: 24.0 °C Humidity: 61.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



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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

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: 24.0 °C

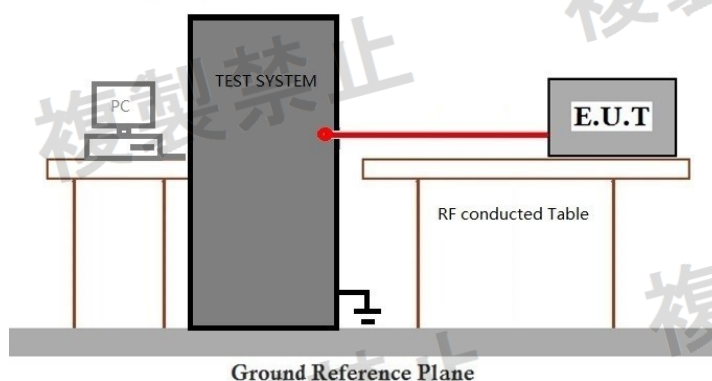
Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	00	TX mode_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

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: 24.0 °C

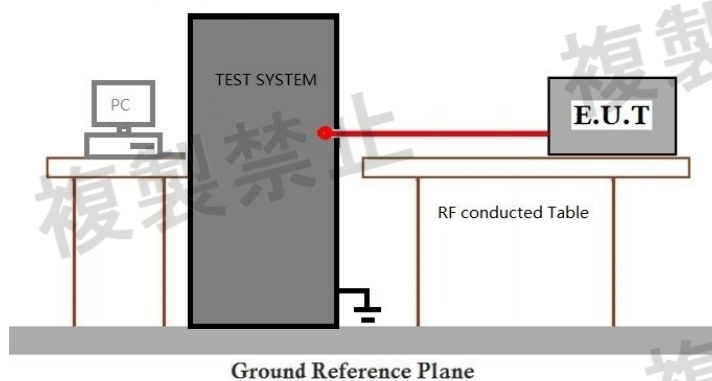
Humidity: 61.4 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 01	RX mode_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

Refer to Appendix - Test Setup Photos for GZCR250300029801 & GZCR250300029802

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2503000298AT



10 Appendix

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

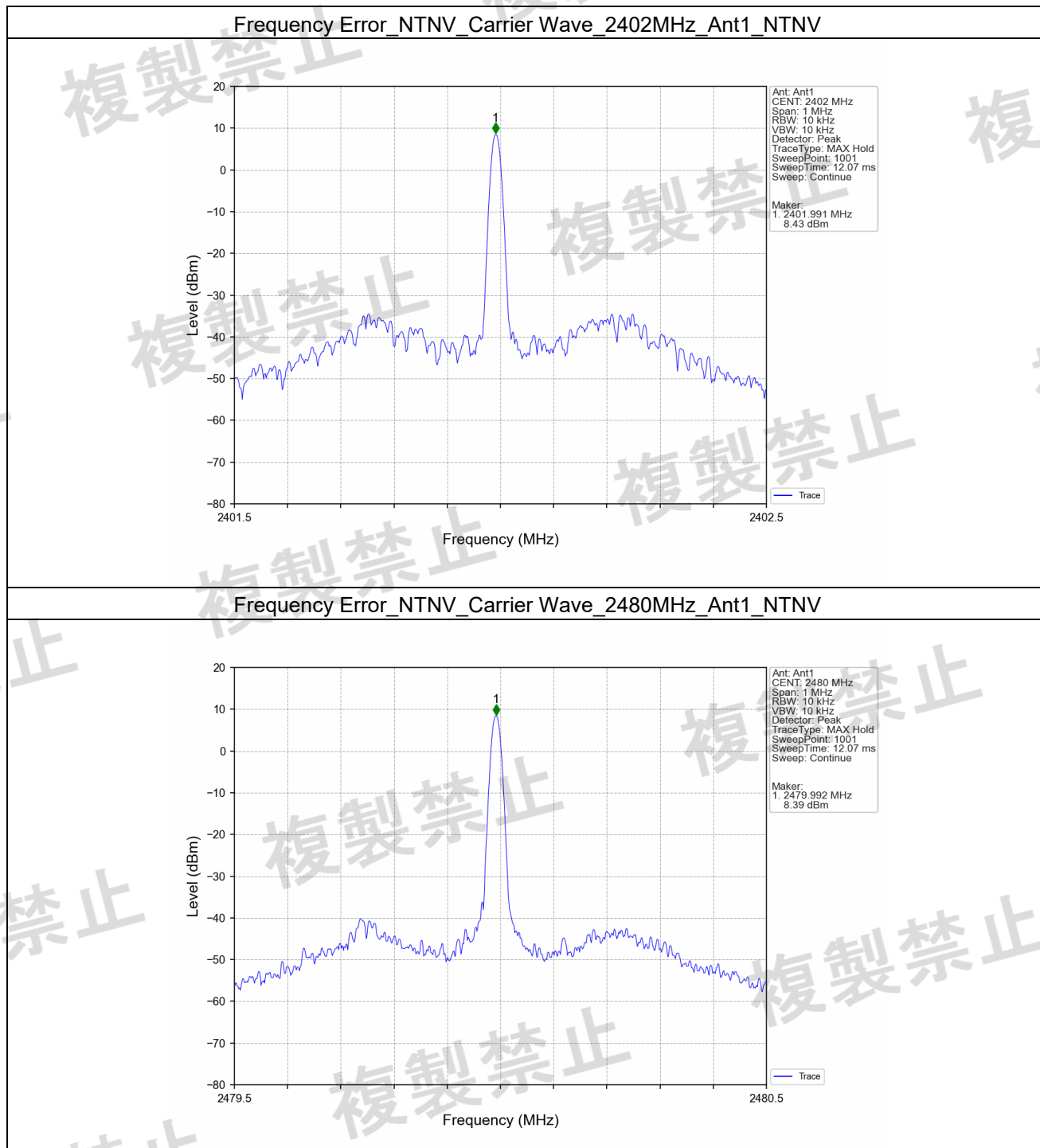
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
						Result	Limit	
NTNV	Carrier Wave	SISO	2402	DH5	2401.991	-3.75	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass
NTLV	Carrier Wave	SISO	2402	DH5	2401.991	-3.75	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass
NTHV	Carrier Wave	SISO	2402	DH5	2401.991	-3.75	-50 to 50	Pass
			2480	DH5	2479.992	-3.23	-50 to 50	Pass

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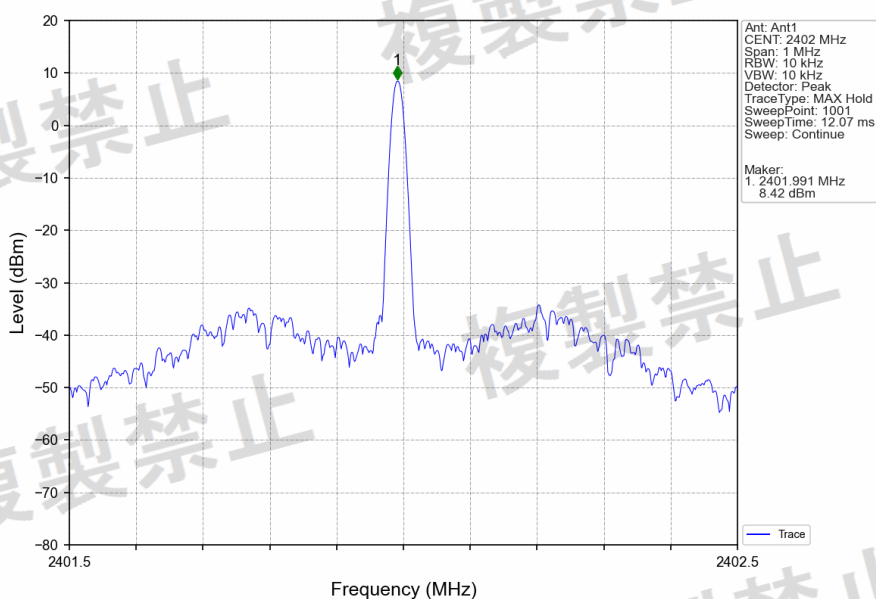
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1.2 Test Graph

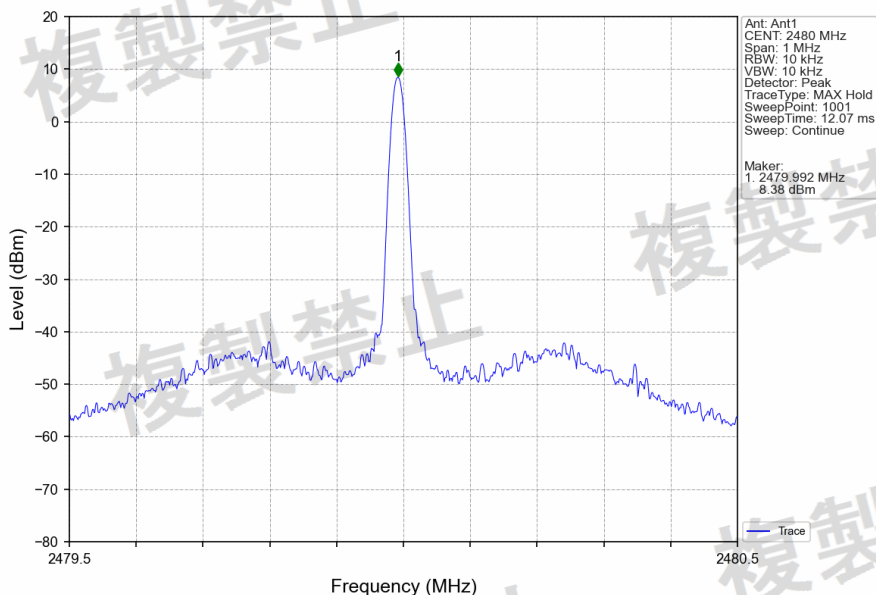
1.2.1 Ant1



Frequency Error_NTLV_Carrier Wave_2402MHz_Ant1_NTLV



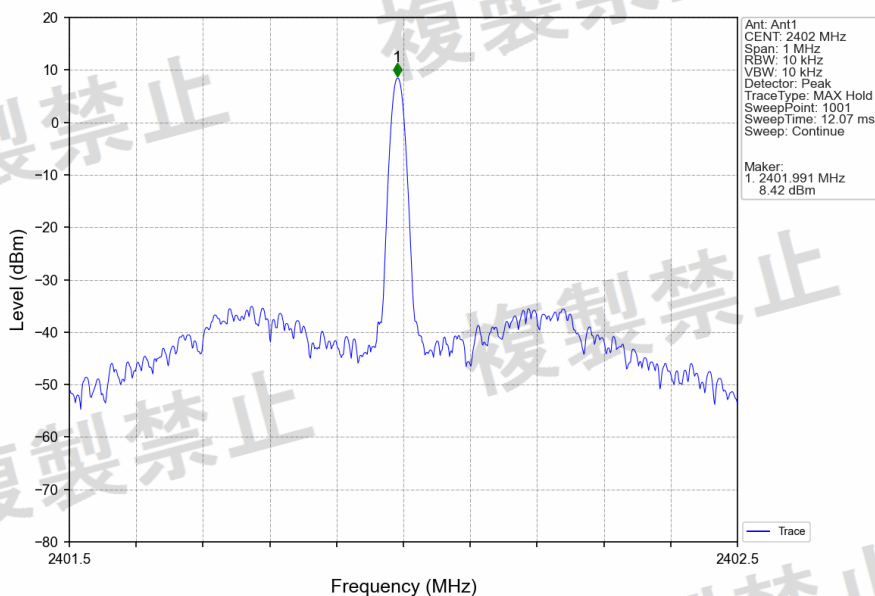
Frequency Error_NTLV_Carrier Wave_2480MHz_Ant1_NTLV



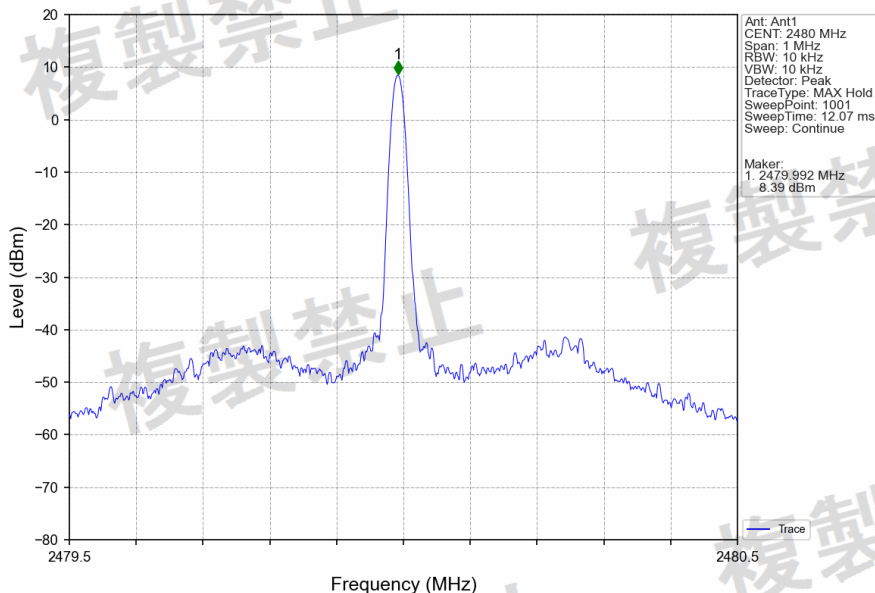
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Frequency Error_NTHV_Carrier Wave_2402MHz_Ant1_NTHV



Frequency Error_NTHV_Carrier Wave_2480MHz_Ant1_NTHV



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2. Occupied Bandwidth

2.1 Test Result

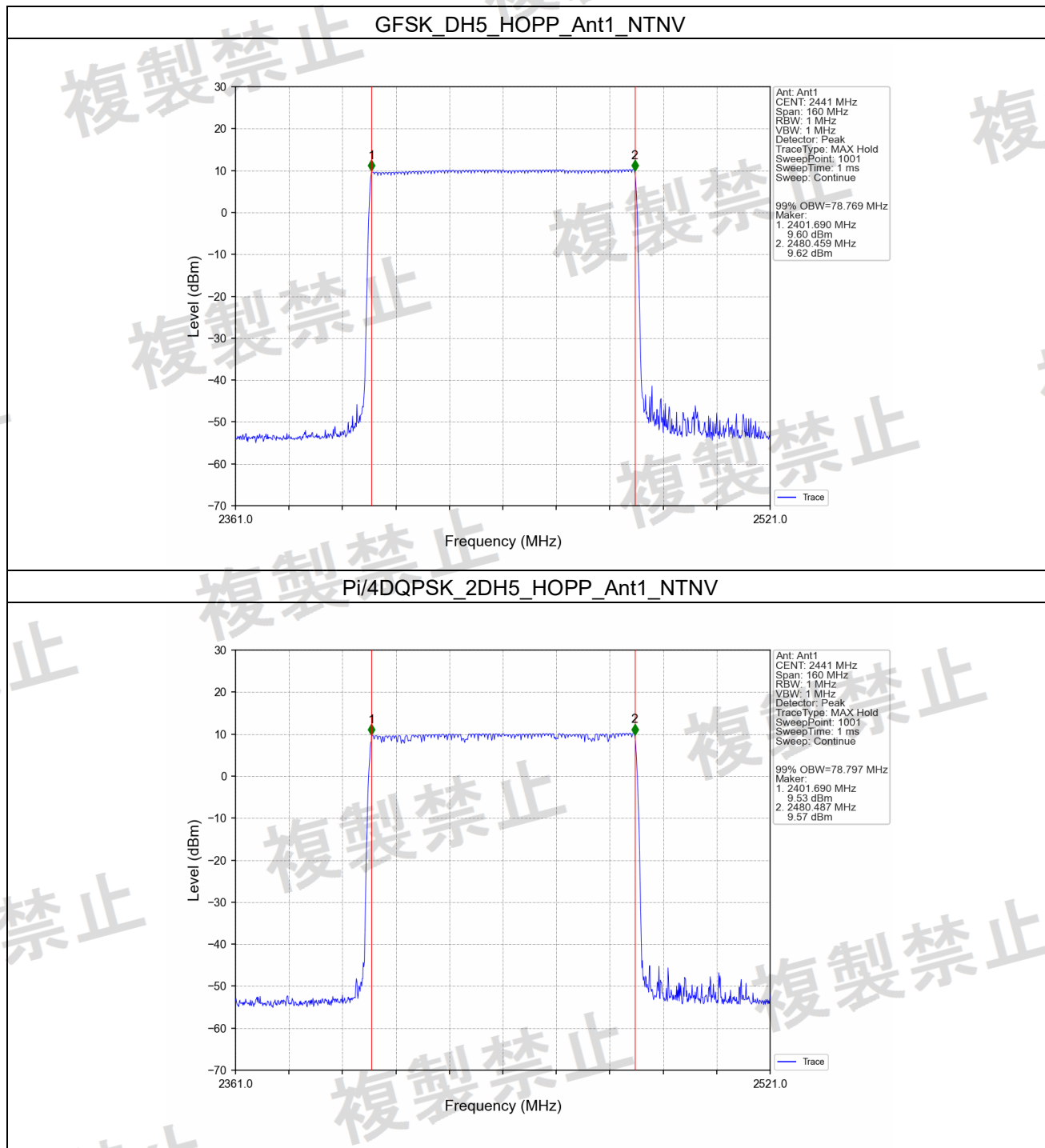
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	Packet Type	99% Occupied Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	78.769	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.797	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.664	≤ 83.5	Pass
NTLV	GFSK	SISO	HOPP	DH5	78.768	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.805	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.740	≤ 83.5	Pass
NTHV	GFSK	SISO	HOPP	DH5	78.763	≤ 83.5	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	78.760	≤ 83.5	Pass
	8DPSK	SISO	HOPP	3DH5	78.864	≤ 83.5	Pass



2.2 Test Graph

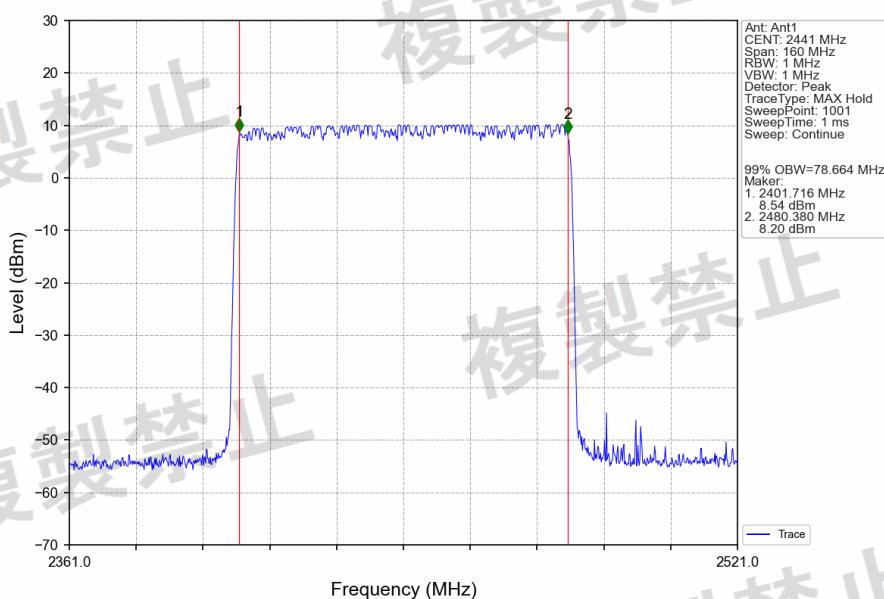
2.2.1 OBW



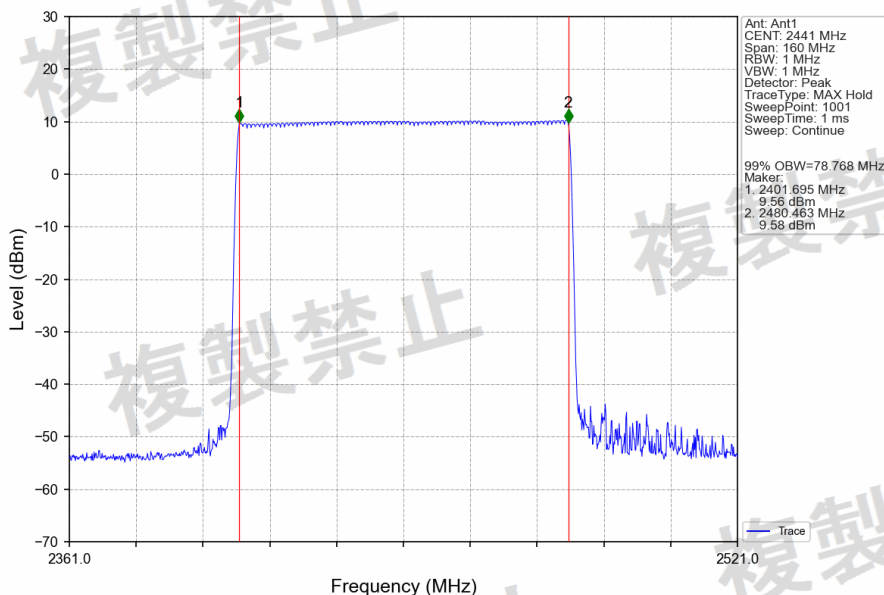
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8DPSK_3DH5_HOPP_Ant1_NTNV



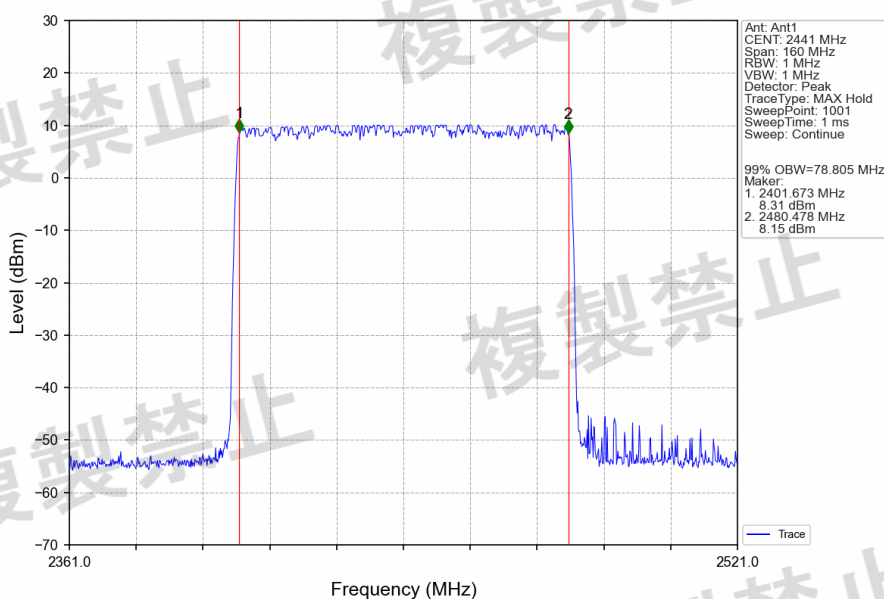
GFSK_DH5_HOPP_Ant1_NTLV



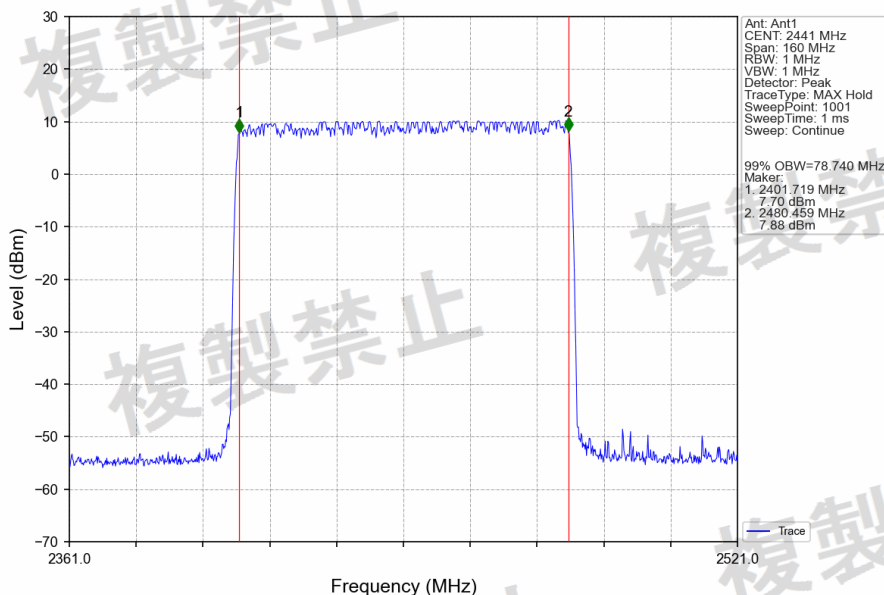
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



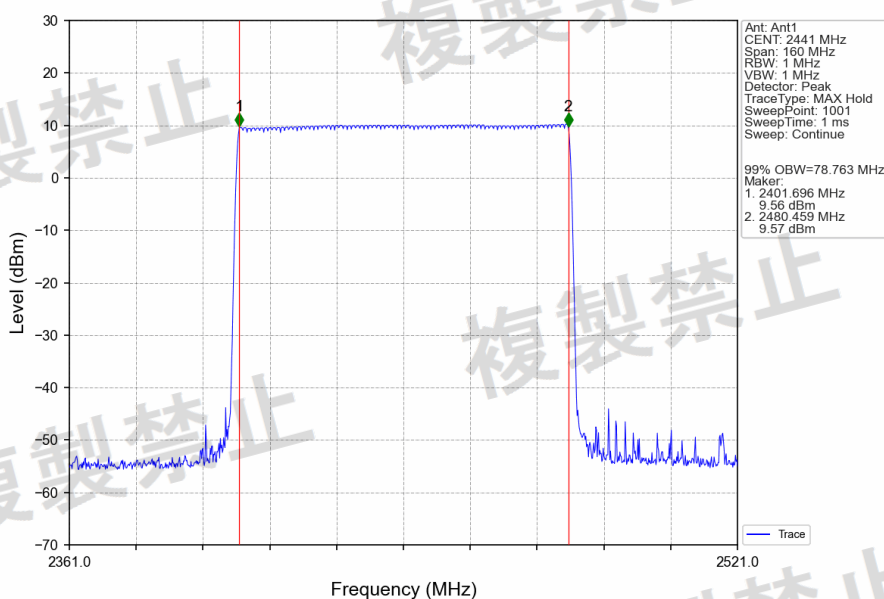
8DPSK_3DH5_HOPP_Ant1_NTLV



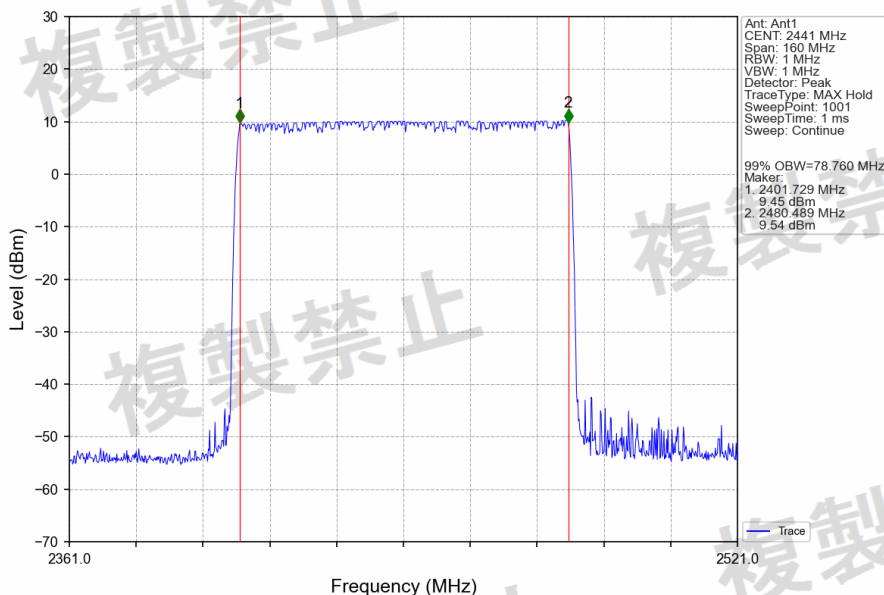
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GFSK_DH5_HOPP_Ant1_NTHV

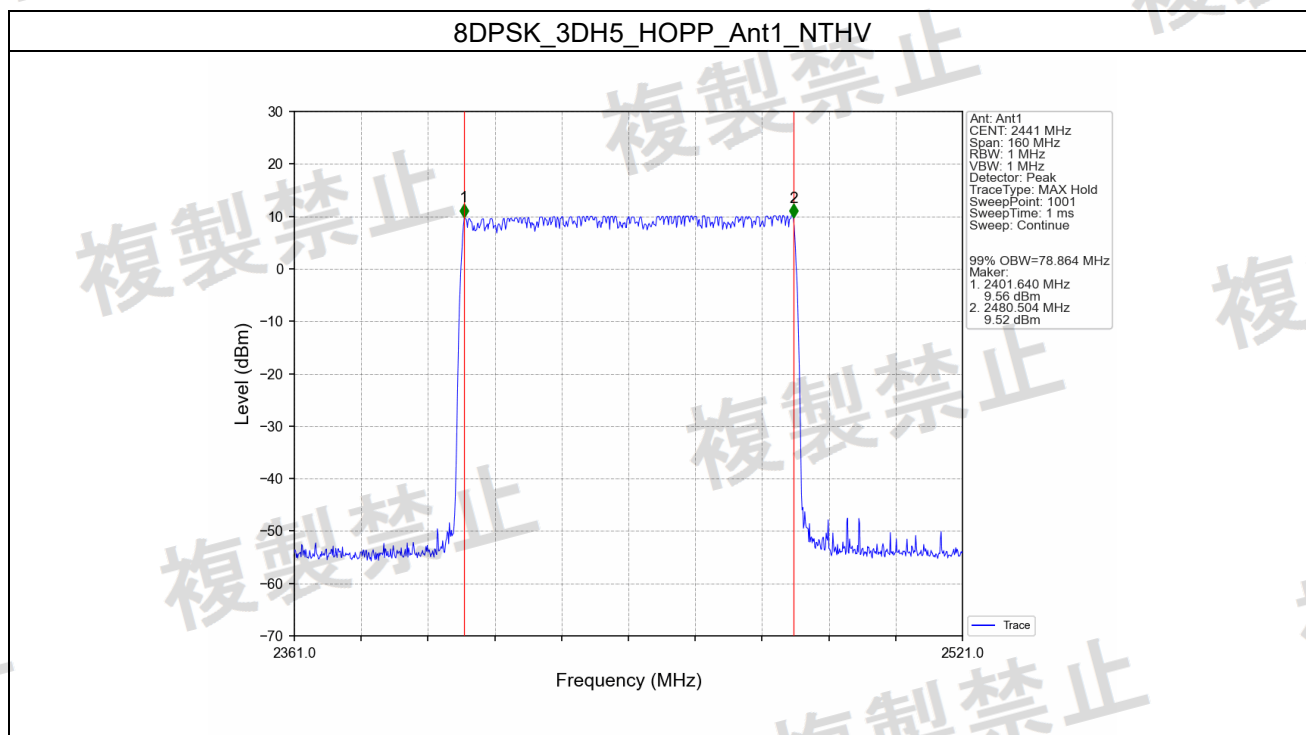


Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV



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3. Spread Bandwidth

3.1 Test Result

3.1.1 SPBW

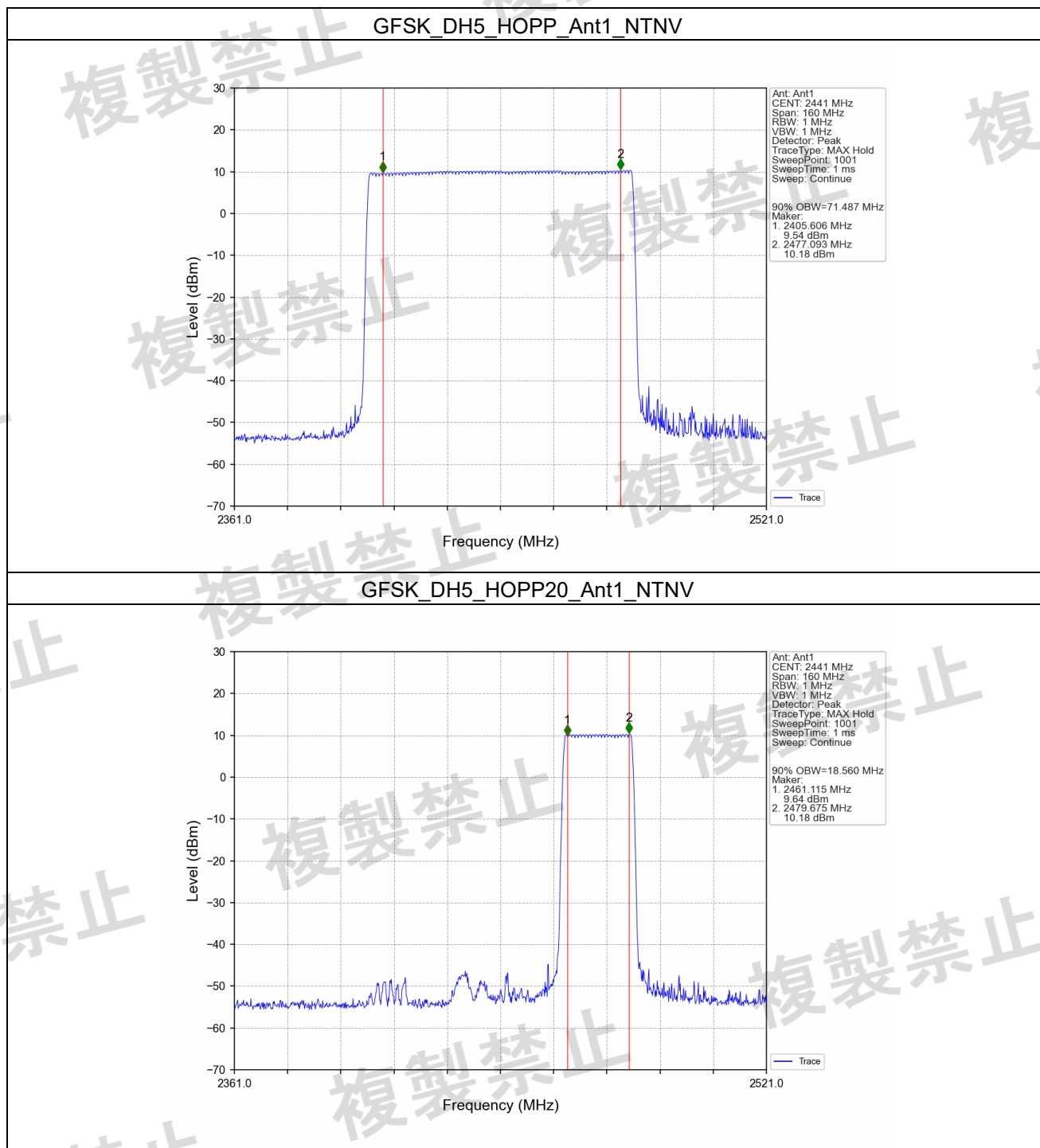
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	Spread Bandwidth (MHz)		Verdict
					ANT1	Limit	
NTNV	GFSK	SISO	HOPP	DH5	71.487	/	Only For Report
			HOPP20	DH5	18.560	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.615	/	Only For Report
			HOPP20	2DH5	18.576	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.139	/	Only For Report
			HOPP20	3DH5	18.443	/	Only For Report
NTLV	GFSK	SISO	HOPP	DH5	71.491	/	Only For Report
			HOPP20	DH5	18.559	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.685	/	Only For Report
			HOPP20	2DH5	18.622	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.297	/	Only For Report
			HOPP20	3DH5	18.675	/	Only For Report
NTHV	GFSK	SISO	HOPP	DH5	71.486	/	Only For Report
			HOPP20	DH5	18.560	/	Only For Report
	Pi/4DQPSK	SISO	HOPP	2DH5	71.690	/	Only For Report
			HOPP20	2DH5	18.514	/	Only For Report
	8DPSK	SISO	HOPP	3DH5	71.516	/	Only For Report
			HOPP20	3DH5	18.654	/	Only For Report

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3.2 Test Graph

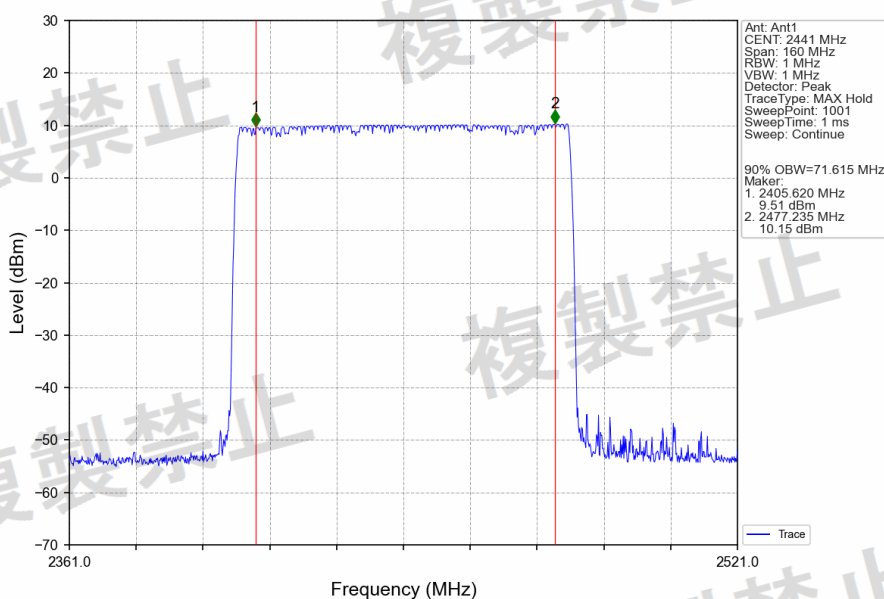
3.2.1 SPBW



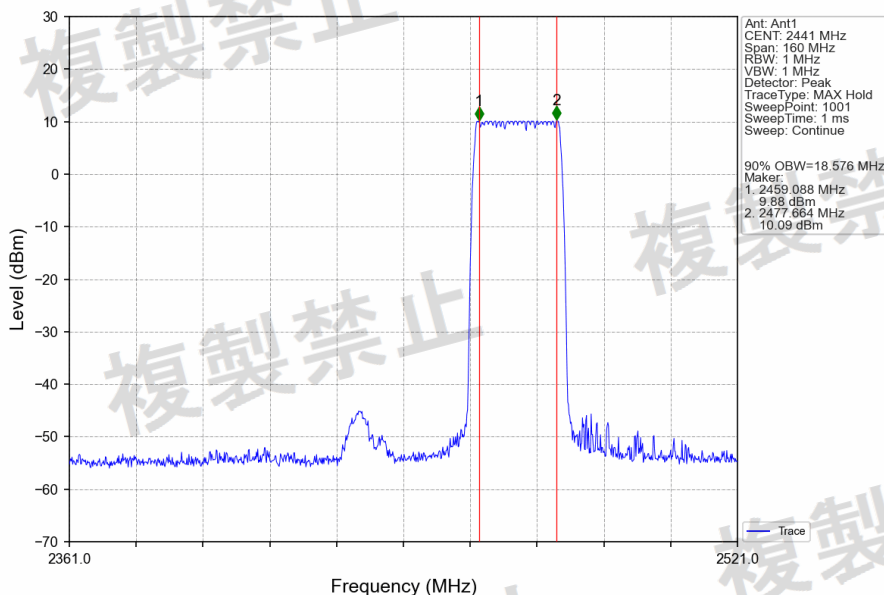
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



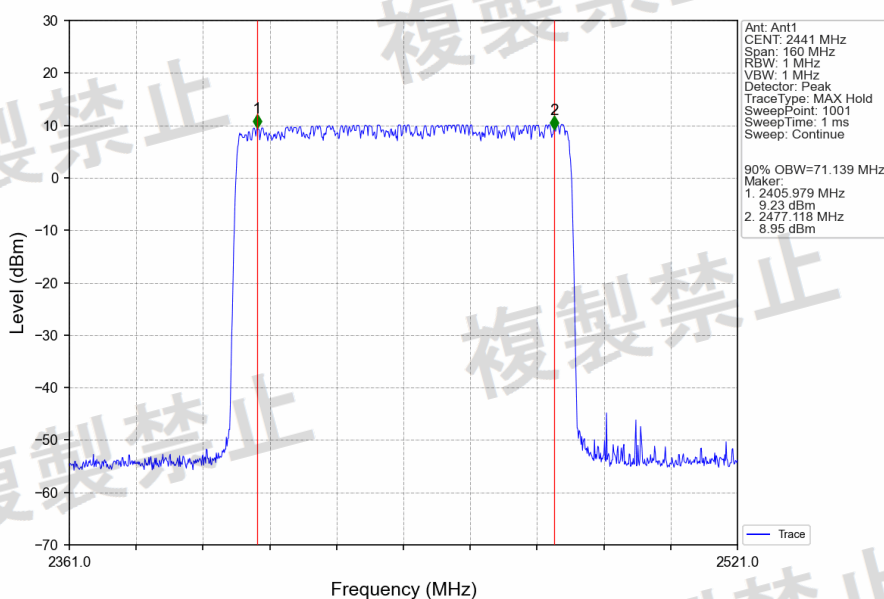
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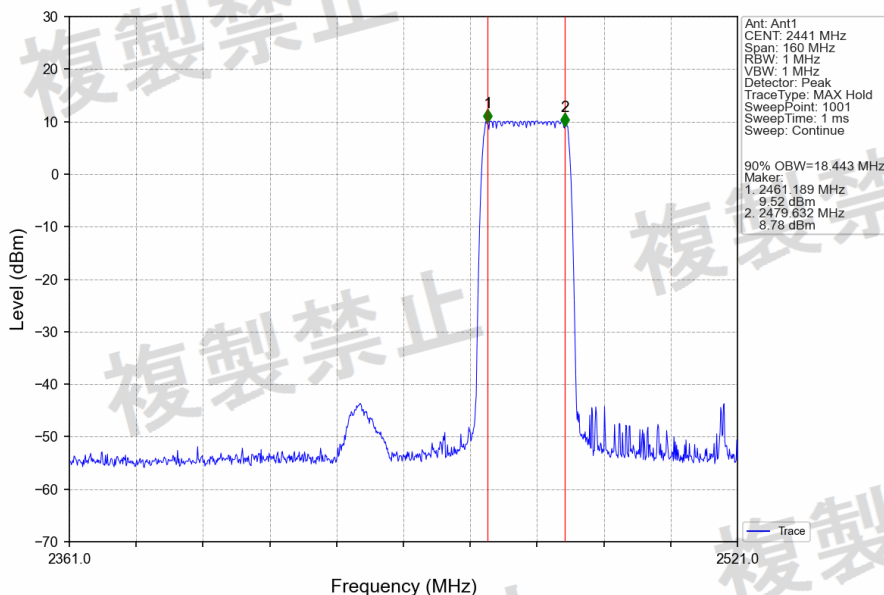
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8DPSK_3DH5_HOPP_Ant1_NTNV

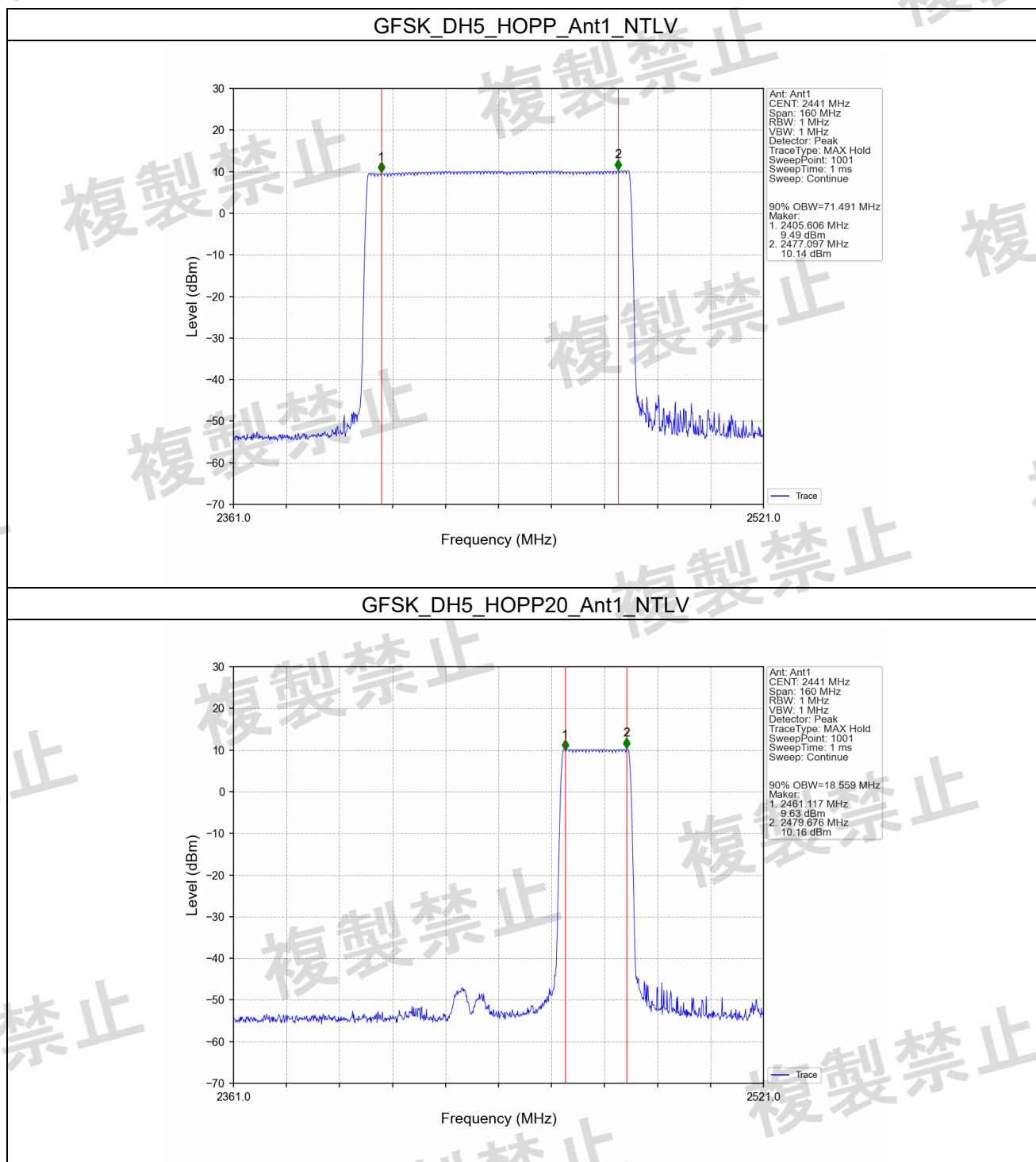


8DPSK_3DH5_HOPP20_Ant1_NTNV



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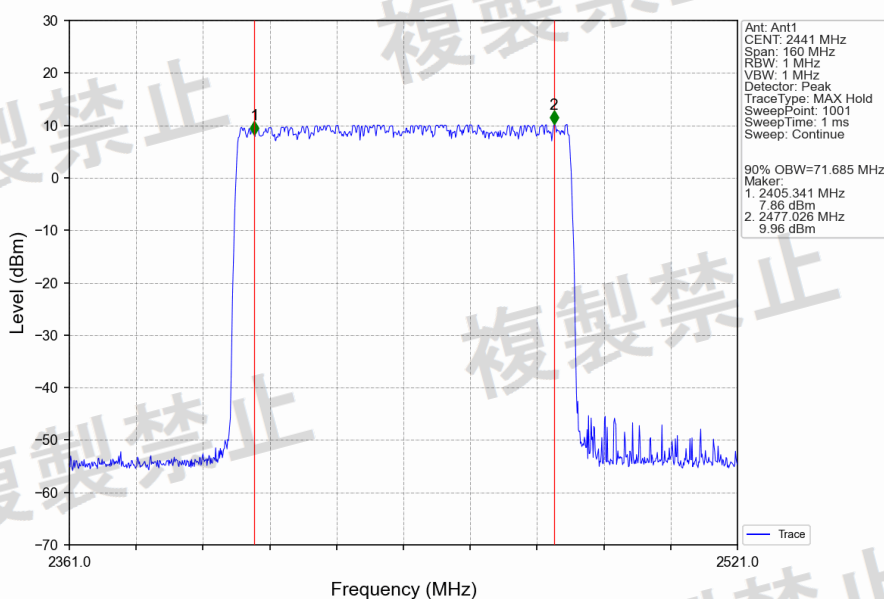
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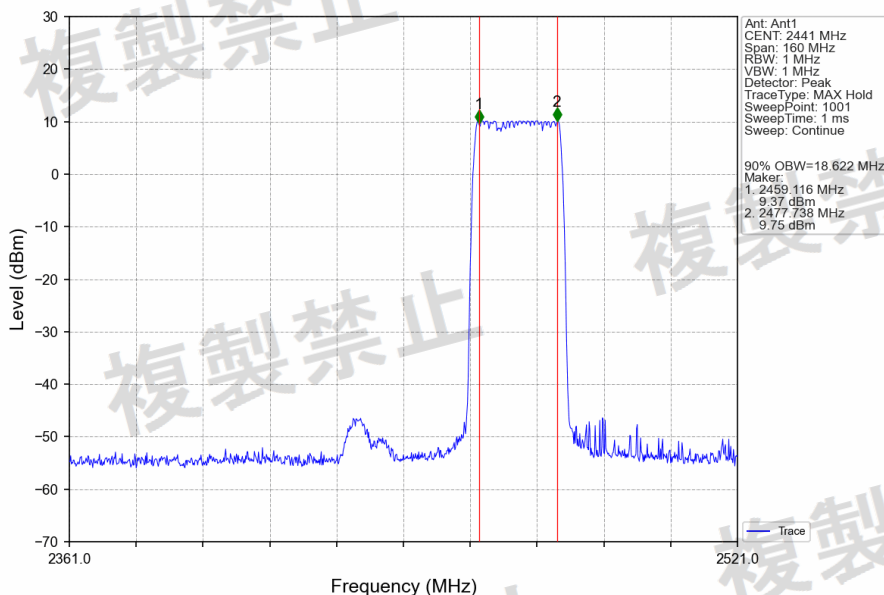
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



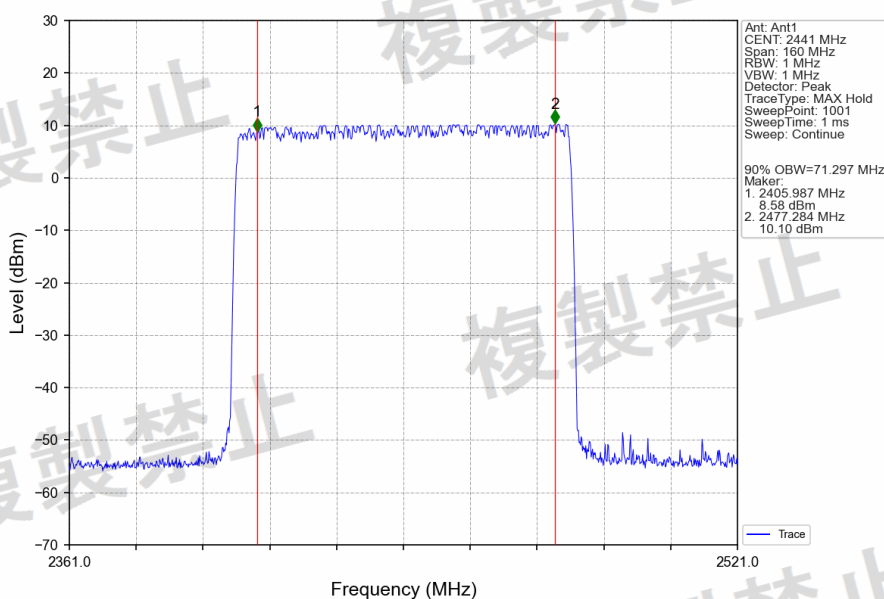
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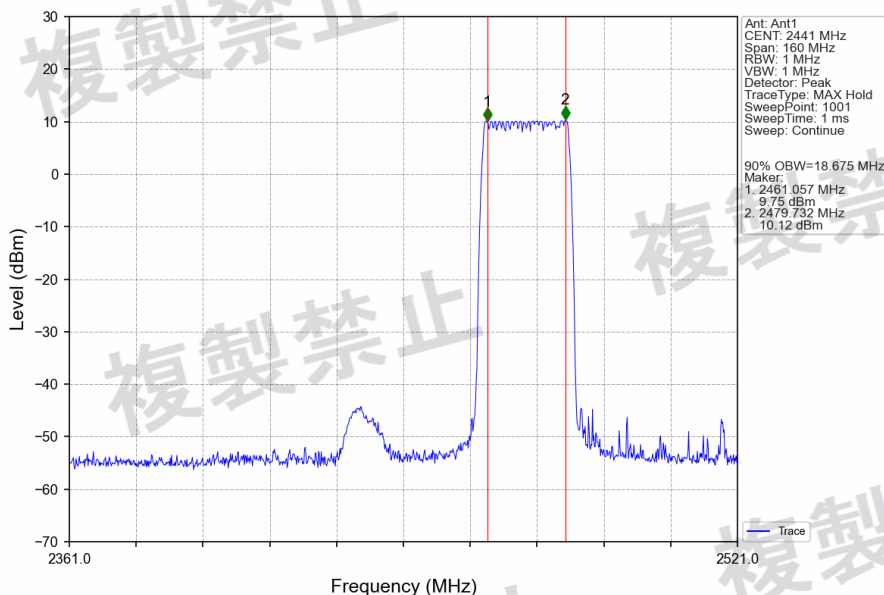
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8DPSK_3DH5_HOPP_Ant1_NTLV



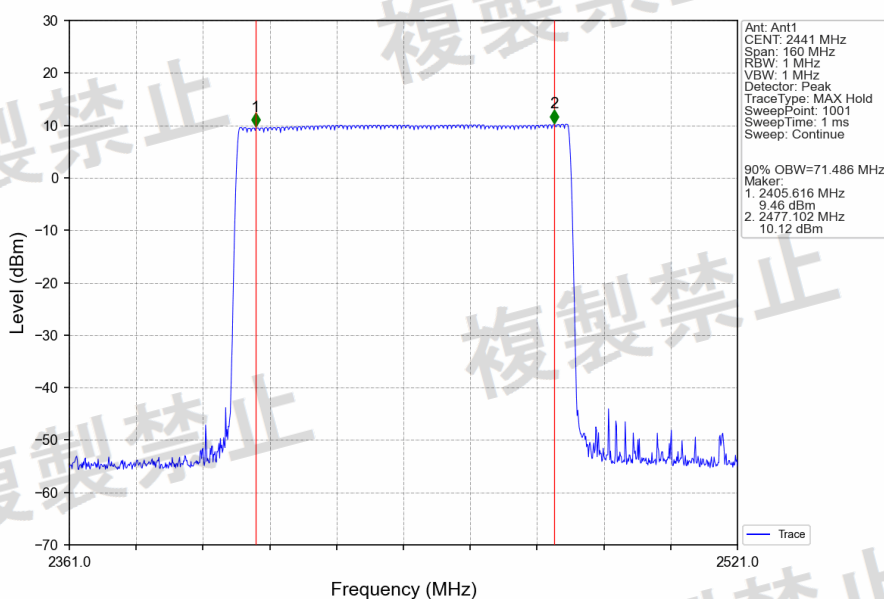
8DPSK_3DH5_HOPP20_Ant1_NTLV



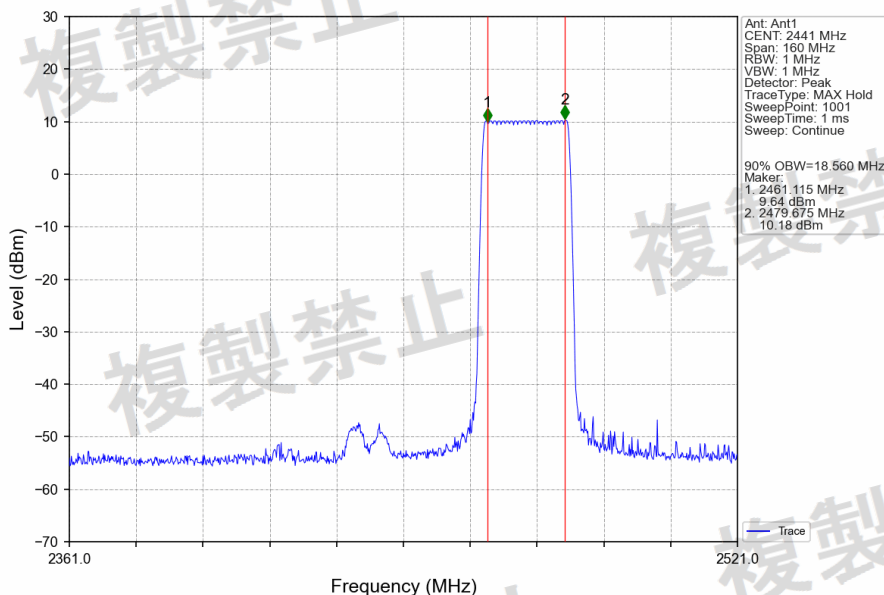
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GFSK_DH5_HOPP_Ant1_NTHV



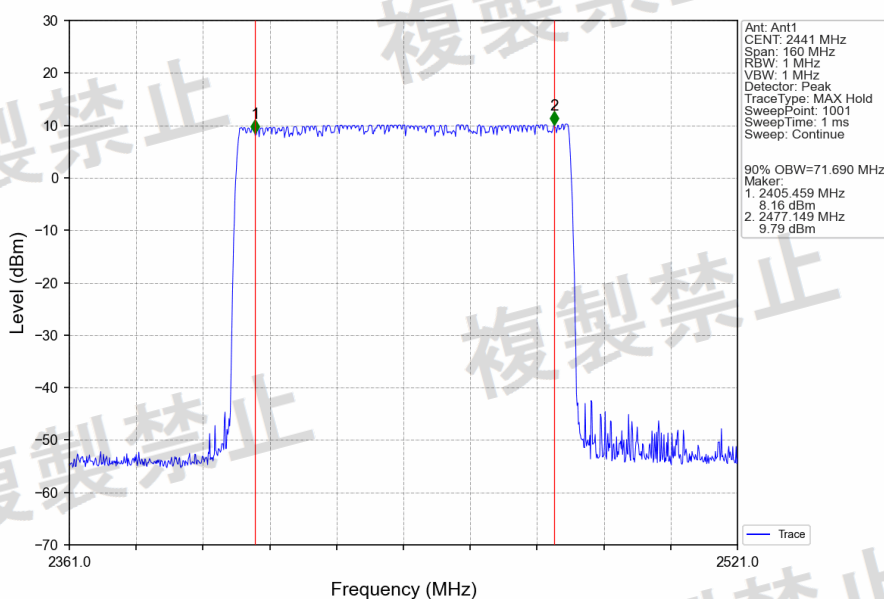
GFSK_DH5_HOPP20_Ant1_NTHV



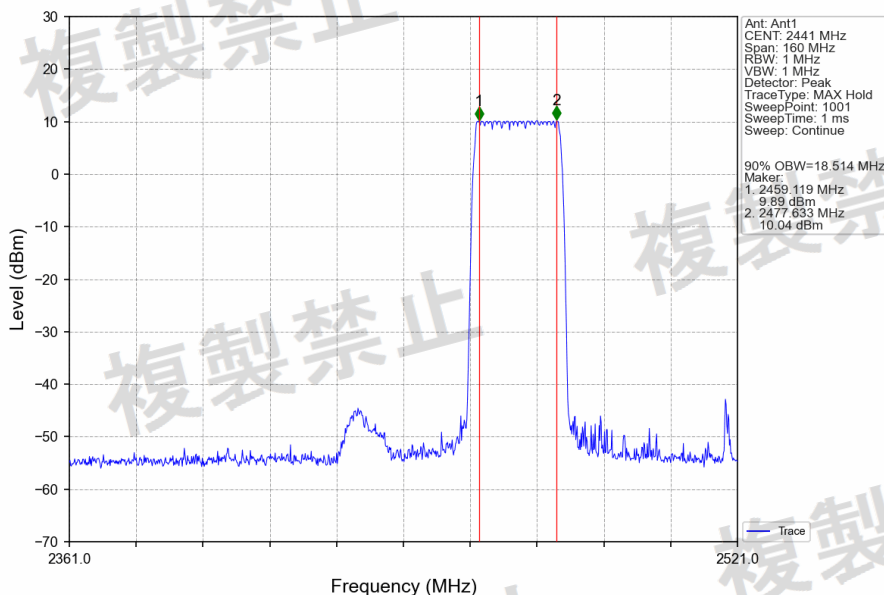
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV



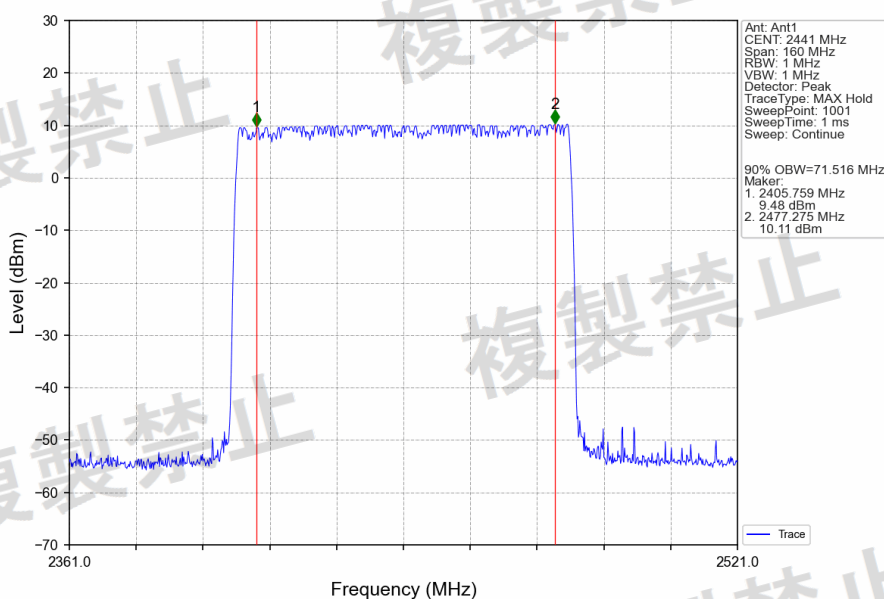
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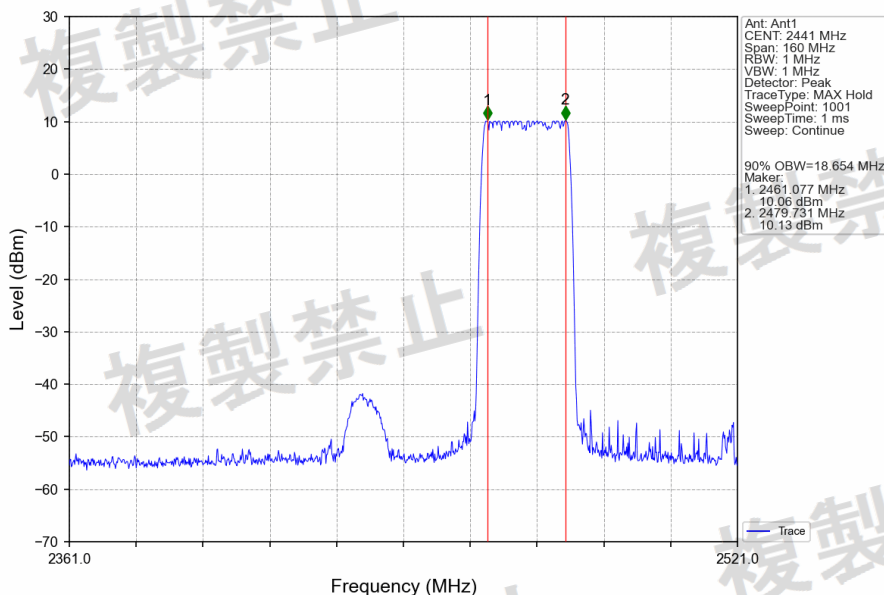
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8DPSK_3DH5_HOPP_Ant1_NTHV



8DPSK_3DH5_HOPP20_Ant1_NTHV



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4. Antenna Power & E.I.R.P

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	0.143	<=3.00	0.55	-74.00	<=20	Pass
			HOPP20	DH5	1	0.550	<=3.00	0.55	0.00	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.073	<=3.00	0.28	-73.93	<=20	Pass
			HOPP20	2DH5	1	0.280	<=3.00	0.28	0.00	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.075	<=3.00	0.29	-74.14	<=20	Pass
			HOPP20	3DH5	1	0.290	<=3.00	0.29	0.00	<=20	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	0.142	<=3.00	0.55	-74.18	<=20	Pass
			HOPP20	DH5	1	0.548	<=3.00	0.55	-0.36	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.074	<=3.00	0.28	-73.57	<=20	Pass
			HOPP20	2DH5	1	0.285	<=3.00	0.28	1.79	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.074	<=3.00	0.28	-73.57	<=20	Pass
			HOPP20	3DH5	1	0.284	<=3.00	0.28	1.43	<=20	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	0.143	<=3.00	0.55	-74.00	<=20	Pass
			HOPP20	DH5	1	0.549	<=3.00	0.55	-0.18	<=20	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.076	<=3.00	0.29	-73.79	<=20	Pass
			HOPP20	2DH5	1	0.293	<=3.00	0.29	1.03	<=20	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.073	<=3.00	0.28	-73.93	<=20	Pass
			HOPP20	3DH5	1	0.281	<=3.00	0.28	0.36	<=20	Pass

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4.1.2 E.I.R.P

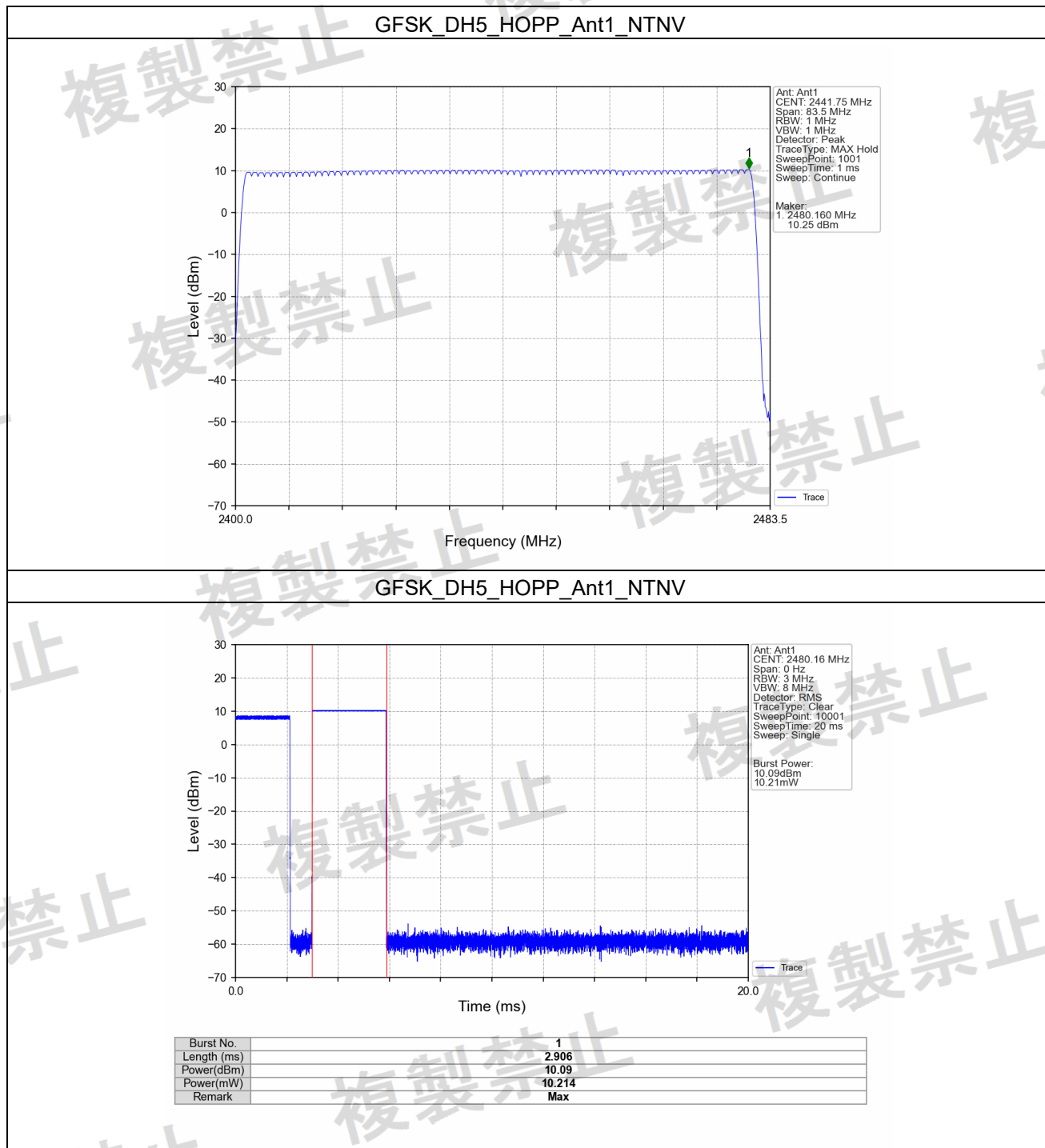
ENV	Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Antenna Power (mW)	Antenna Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NTNV	GFSK	SISO	HOPP	DH5	1	0.143	-8.45	2	-6.45	6.91	Pass
			HOPP20	DH5	1	0.550	-2.60	2	-0.60	6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.073	-11.37	2	-9.37	6.91	Pass
			HOPP20	2DH5	1	0.280	-5.53	2	-3.53	6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.075	-11.25	2	-9.25	6.91	Pass
			HOPP20	3DH5	1	0.290	-5.38	2	-3.38	6.91	Pass
NTLV	GFSK	SISO	HOPP	DH5	1	0.142	-8.48	2	-6.48	6.91	Pass
			HOPP20	DH5	1	0.548	-2.61	2	-0.61	6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.074	-11.31	2	-9.31	6.91	Pass
			HOPP20	2DH5	1	0.285	-5.45	2	-3.45	6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.074	-11.31	2	-9.31	6.91	Pass
			HOPP20	3DH5	1	0.284	-5.47	2	-3.47	6.91	Pass
NTHV	GFSK	SISO	HOPP	DH5	1	0.143	-8.45	2	-6.45	6.91	Pass
			HOPP20	DH5	1	0.549	-2.60	2	-0.60	6.91	Pass
	Pi/4DQPSK	SISO	HOPP	2DH5	1	0.076	-11.19	2	-9.19	6.91	Pass
			HOPP20	2DH5	1	0.293	-5.33	2	-3.33	6.91	Pass
	8DPSK	SISO	HOPP	3DH5	1	0.073	-11.37	2	-9.37	6.91	Pass
			HOPP20	3DH5	1	0.281	-5.51	2	-3.51	6.91	Pass
Antenna Gain: 2 dBi											

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4.2 Test Graph

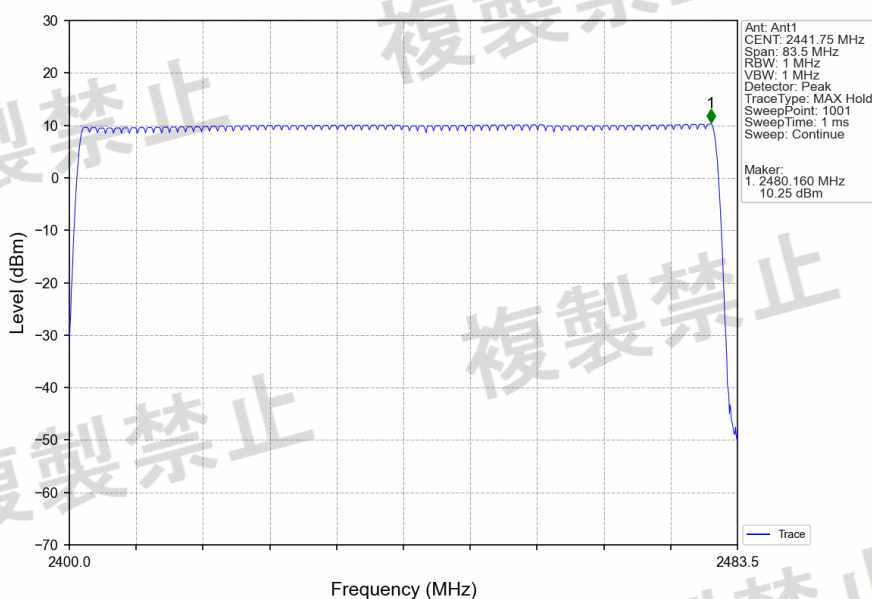
4.2.1 Power



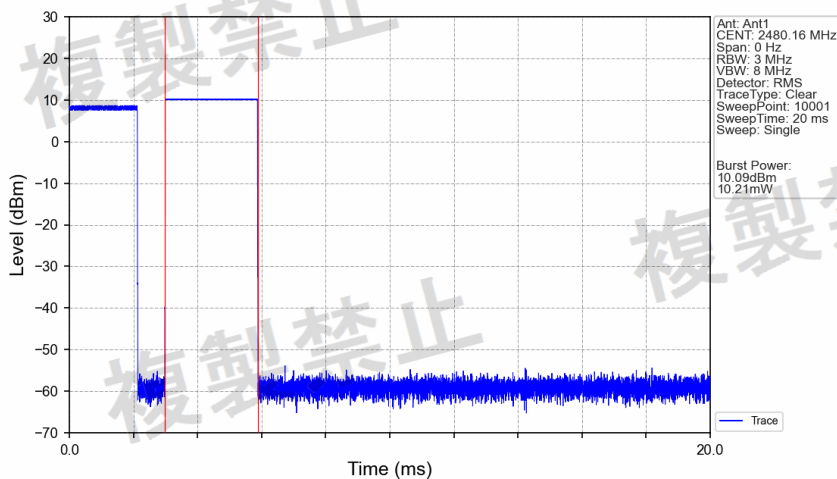
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GFSK_DH5_HOPP20_Ant1_NTNV



GFSK_DH5_HOPP20_Ant1_NTNV

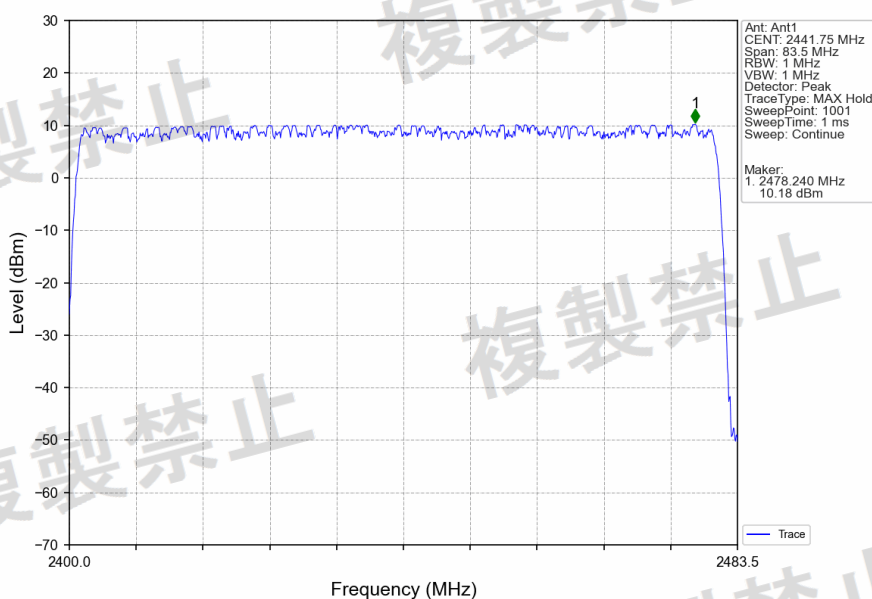


Burst No.	1
Length (ms)	2.906
Power(dBm)	10.09
Power(mW)	10.214
Remark	Max

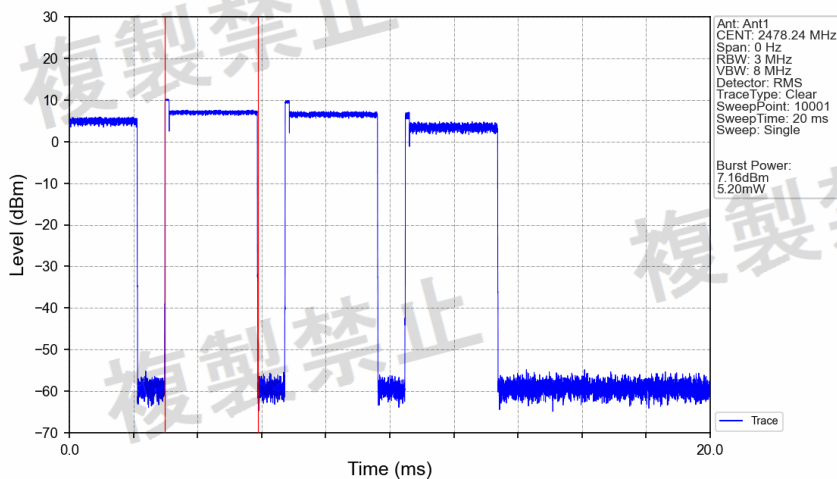
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV

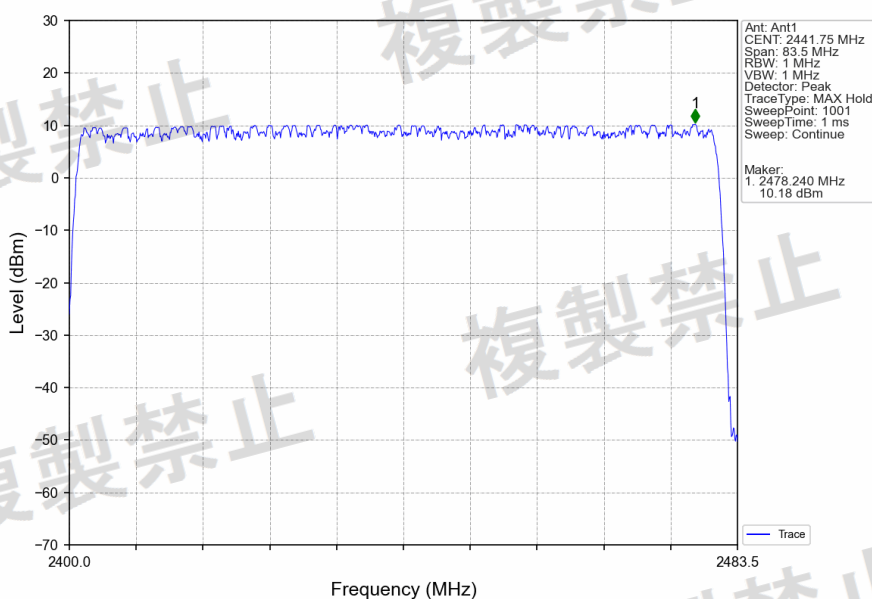


Burst No.	1	2	3
Length (ms)	2.906	2.906	2.904
Power(dBm)	7.16	6.70	3.58
Power(mW)	5.196	4.678	2.280
Remark	Max	/	/

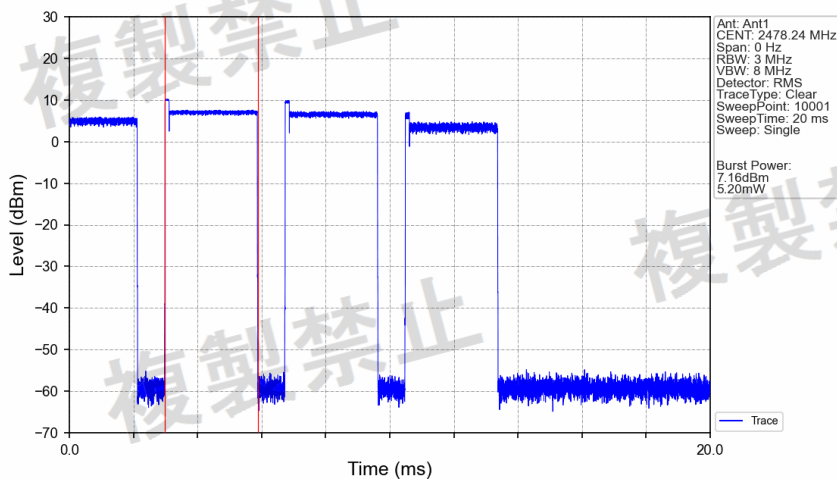
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTNV

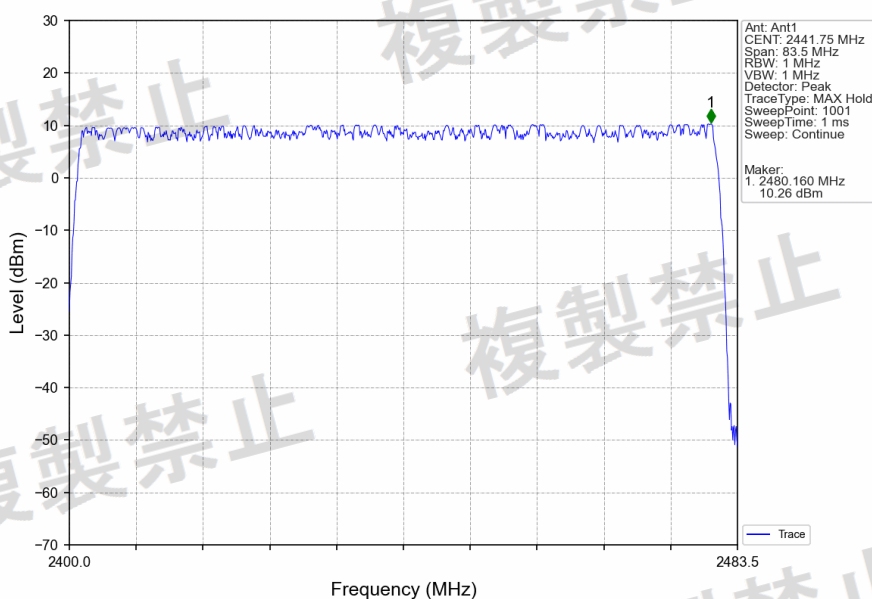


Burst No.	1	2	3
Length (ms)	2.906	2.906	2.904
Power (dBm)	7.16	6.70	3.58
Power (mW)	5.196	4.678	2.280
Remark	Max	/	/

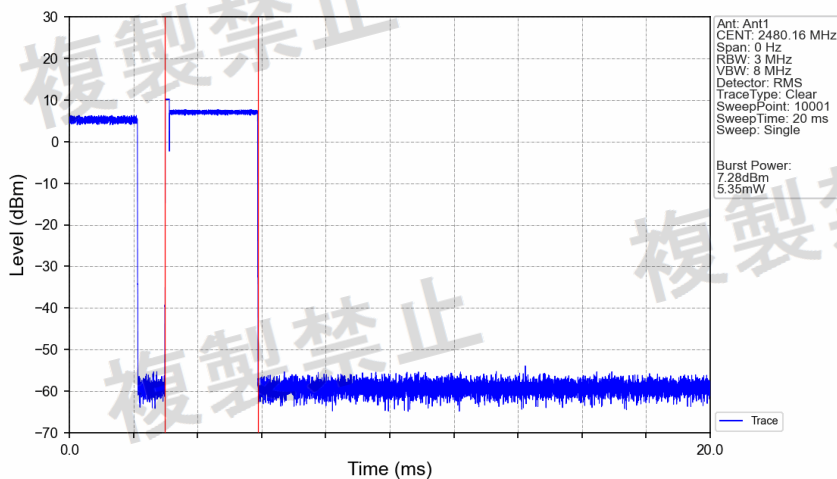
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8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV

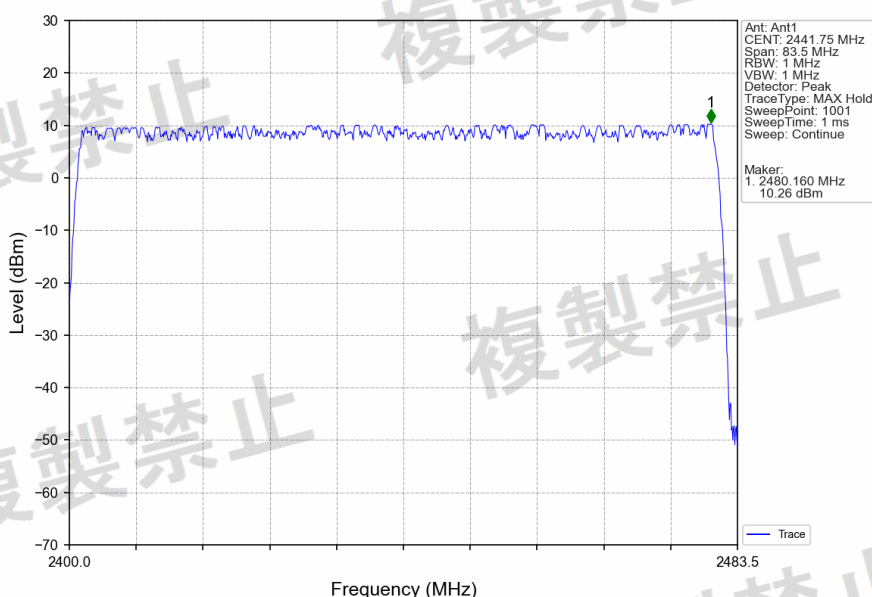


Burst No.	1
Length (ms)	2.906
Power (dBm)	7.28
Power (mW)	5.345
Remark	Max

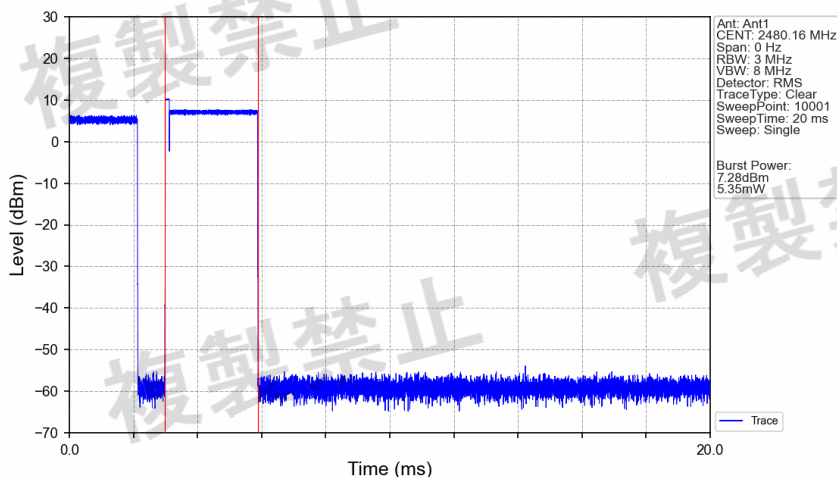
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8DPSK_3DH5_HOPP20_Ant1_NTNV



8DPSK_3DH5_HOPP20_Ant1_NTNV

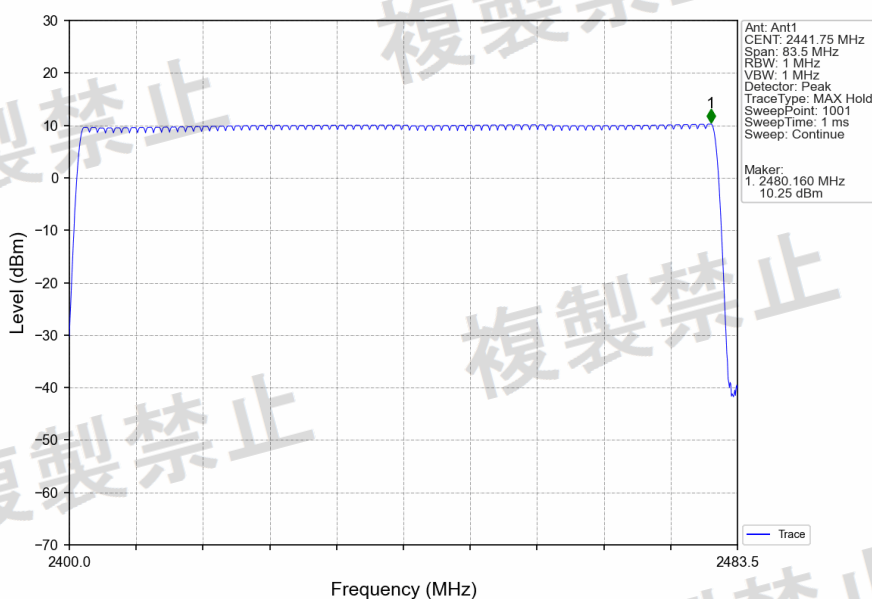


Burst No.	1
Length (ms)	2.906
Power(dBm)	7.28
Power(mW)	5.345
Remark	Max

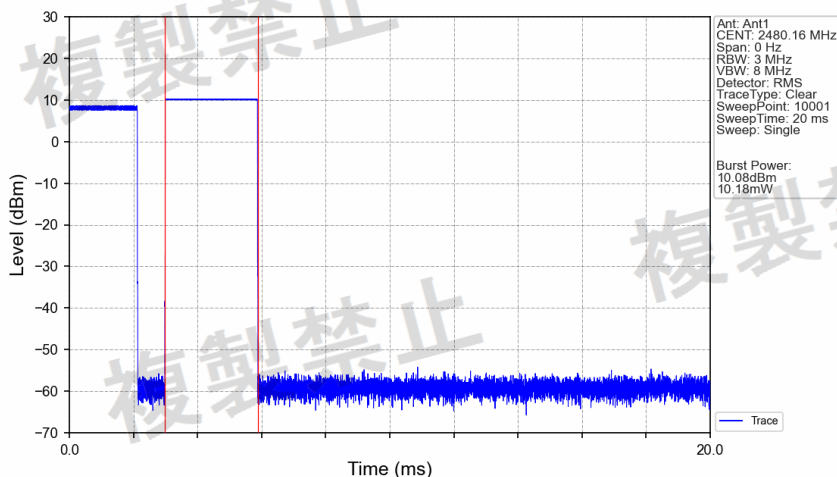
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GFSK_DH5_HOPP_Ant1_NTLV



GFSK_DH5_HOPP_Ant1_NTLV

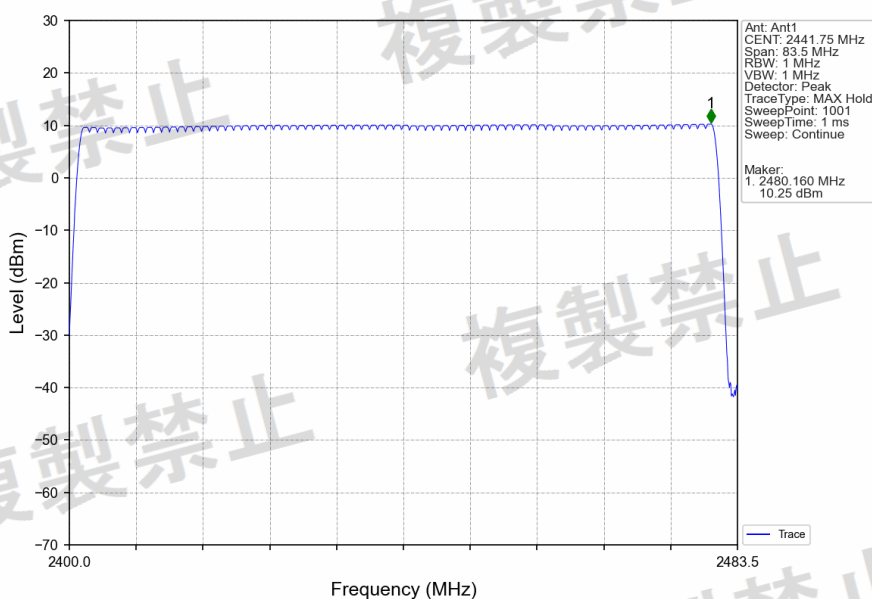


Burst No.	1
Length (ms)	2.904
Power(dBm)	10.08
Power(mW)	10.176
Remark	Max

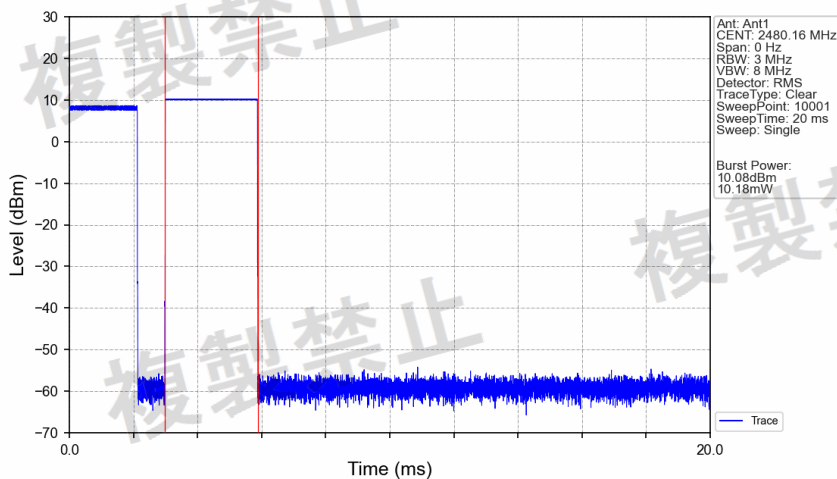
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GFSK_DH5_HOPP20_Ant1_NTLV



GFSK_DH5_HOPP20_Ant1_NTLV

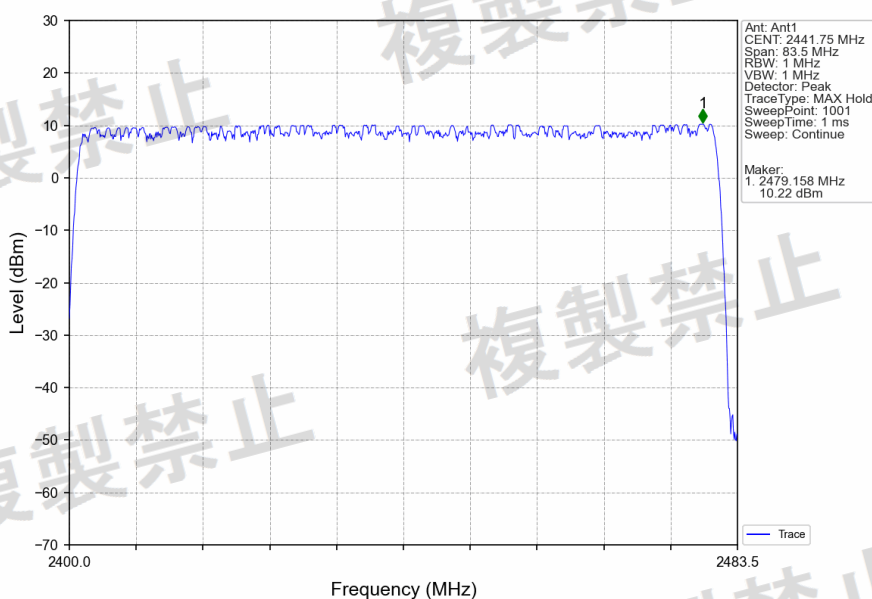


Burst No.	1
Length (ms)	2.904
Power(dBm)	10.08
Power(mW)	10.176
Remark	Max

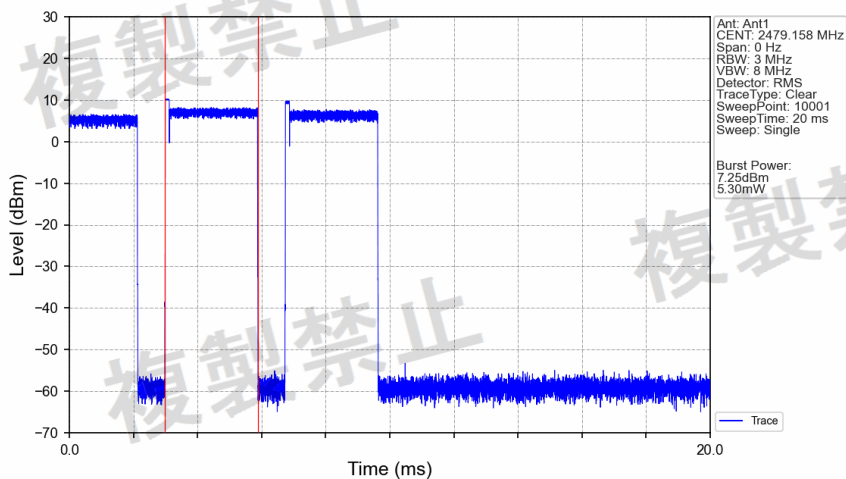
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTLV

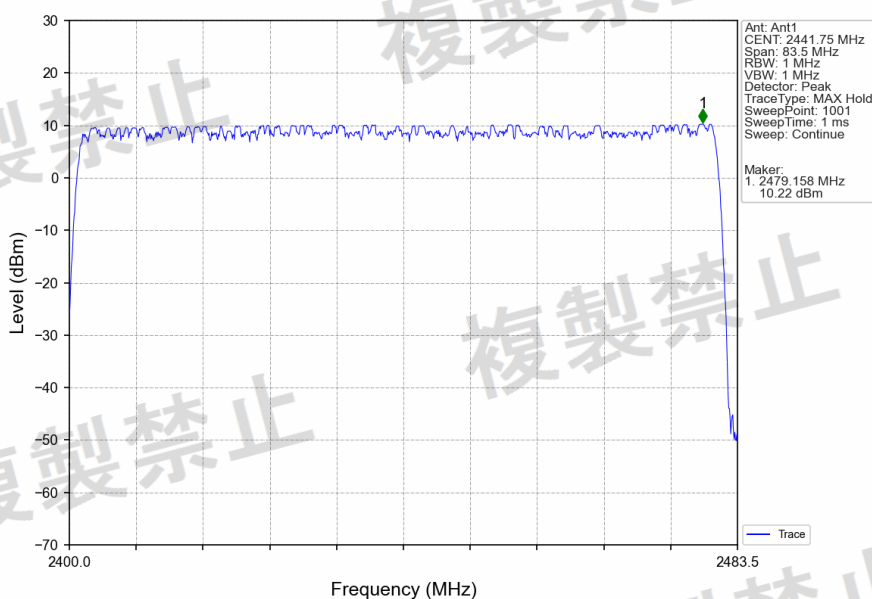


Burst No.	1	2
Length (ms)	2.904	2.904
Power(dBm)	7.25	6.58
Power(mW)	5.305	4.547
Remark	Max	/

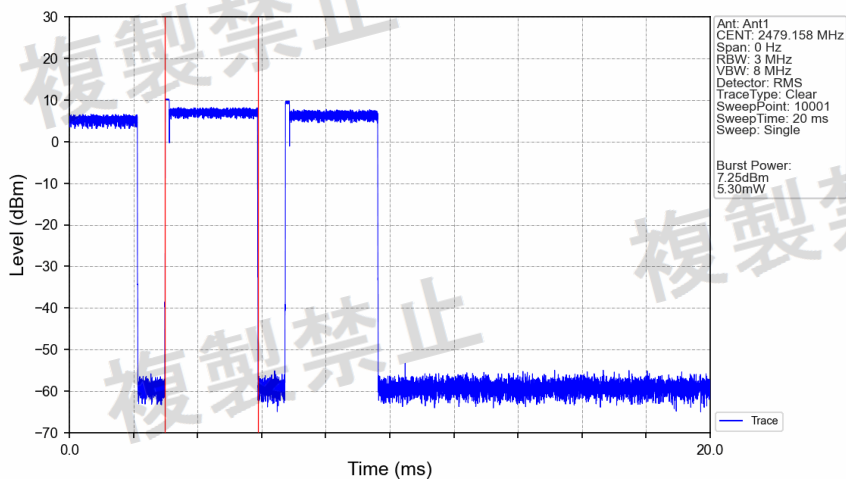
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTLV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTLV

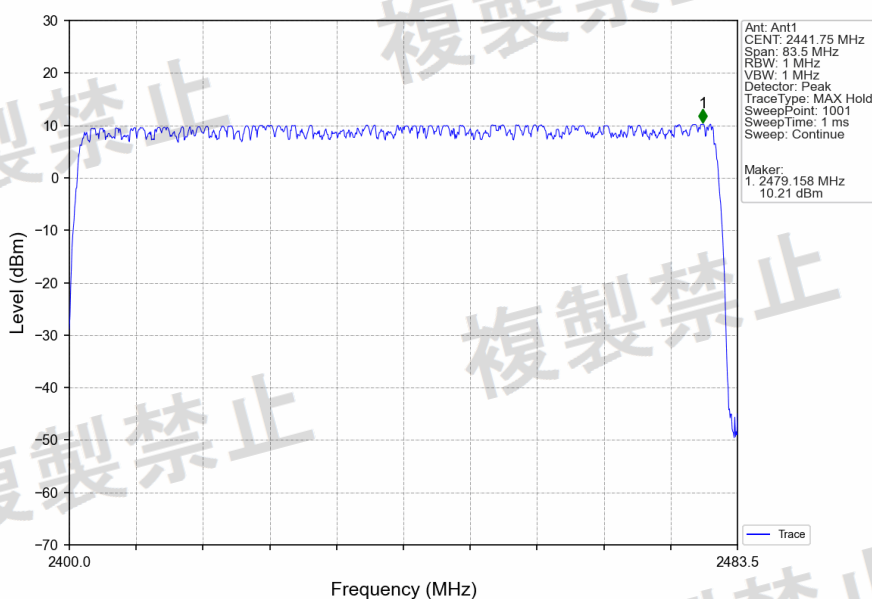


Burst No.	1	2
Length (ms)	2.904	2.904
Power(dBm)	7.25	6.58
Power(mW)	5.305	4.547
Remark	Max	/

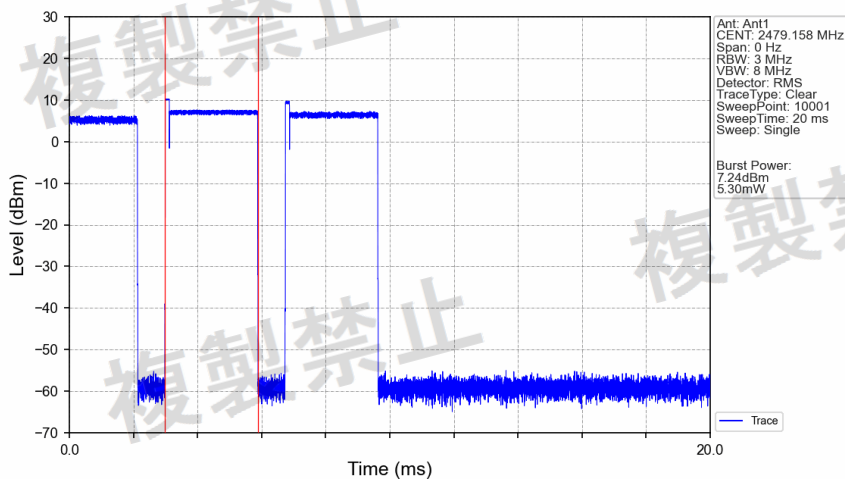
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8DPSK_3DH5_HOPP_Ant1_NTLV



8DPSK_3DH5_HOPP_Ant1_NTLV

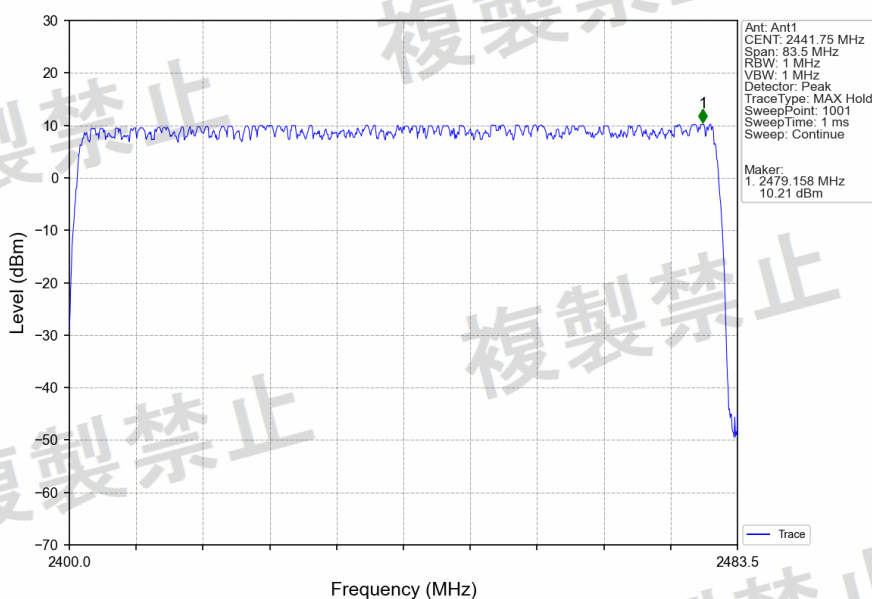


Burst No.	1	2
Length (ms)	2.906	2.906
Power(dBm)	7.24	6.57
Power(mW)	5.299	4.540
Remark	Max	/

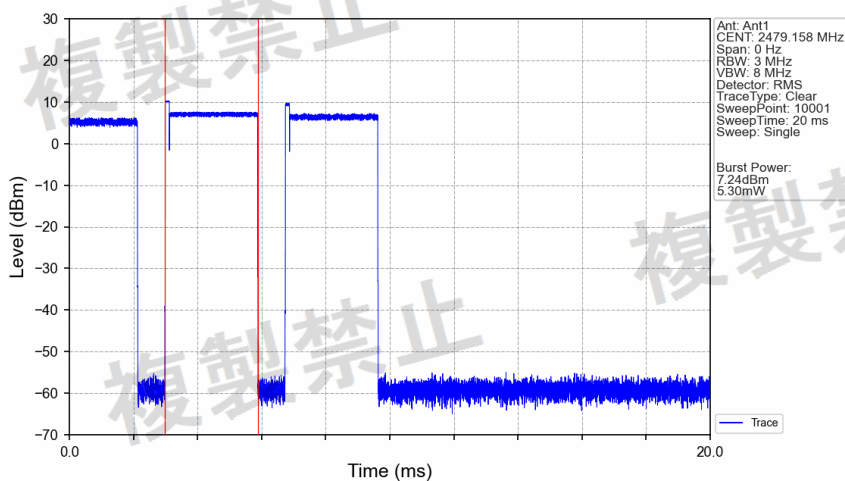
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8DPSK_3DH5_HOPP20_Ant1_NTLV



8DPSK_3DH5_HOPP20_Ant1_NTLV

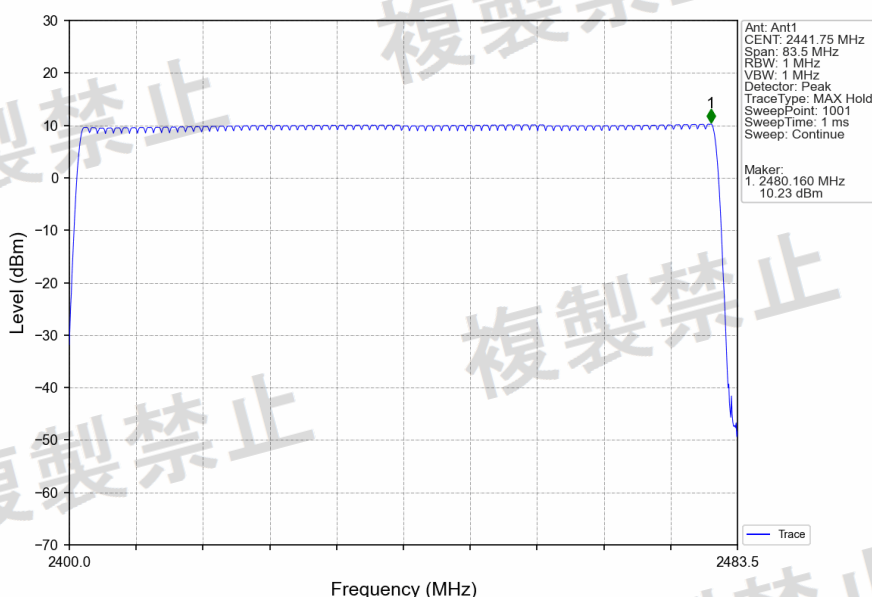


Burst No.	1	2
Length (ms)	2.906	2.906
Power(dBm)	7.24	6.57
Power(mW)	5.299	4.540
Remark	Max	/

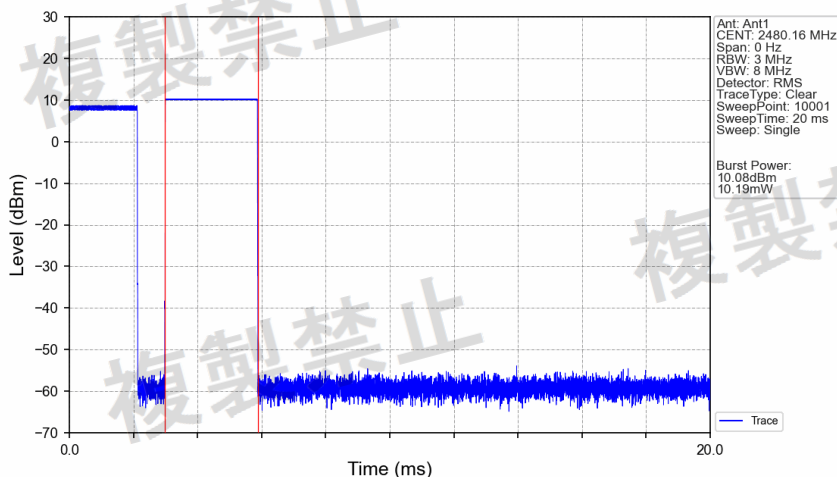
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GFSK_DH5_HOPP_Ant1_NTHV



GFSK_DH5_HOPP_Ant1_NTHV

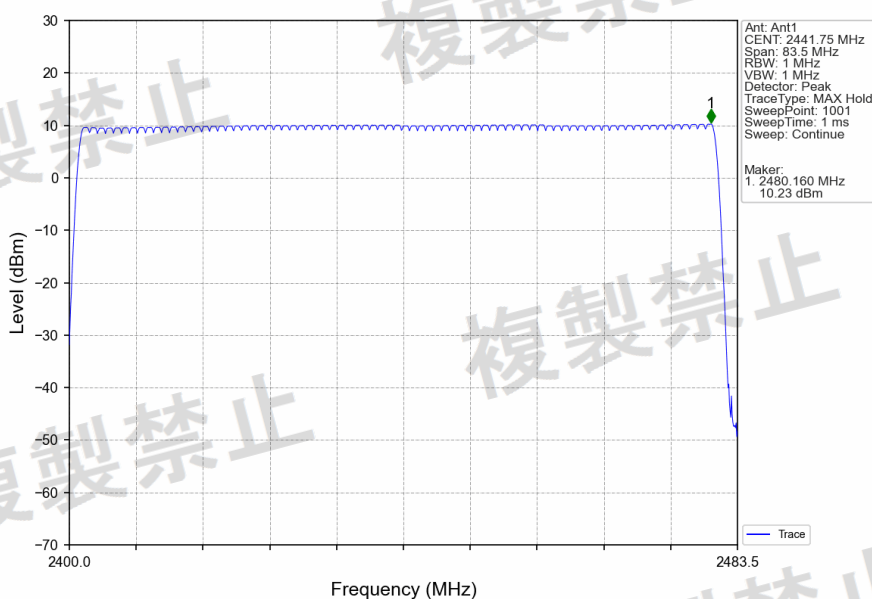


Burst No.	1
Length (ms)	2.904
Power(dBm)	10.08
Power(mW)	10.188
Remark	Max

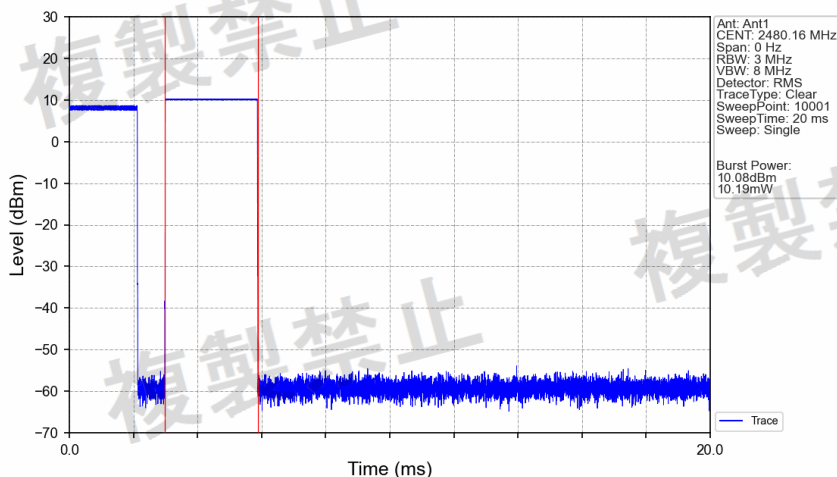
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GFSK_DH5_HOPP20_Ant1_NTHV



GFSK_DH5_HOPP20_Ant1_NTHV

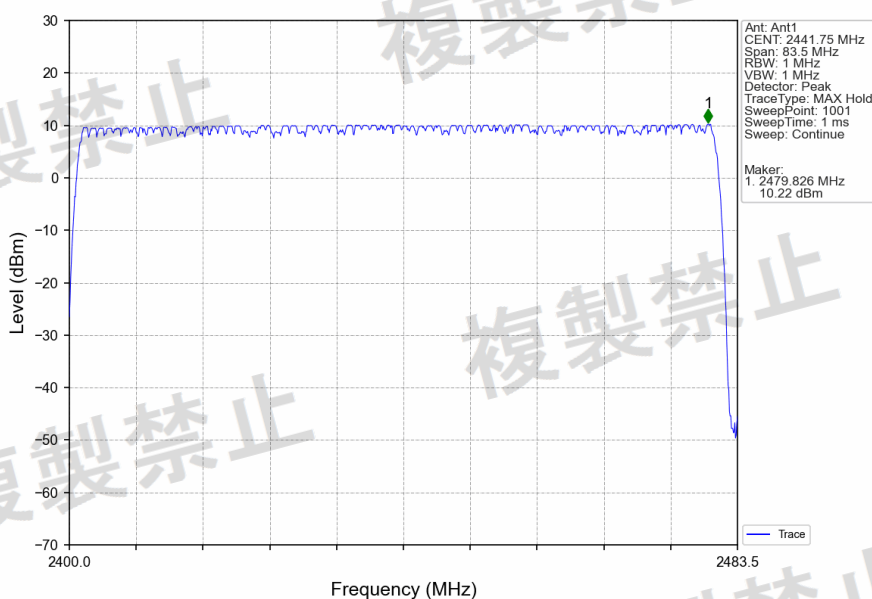


Burst No.	1
Length (ms)	2.904
Power(dBm)	10.08
Power(mW)	10.188
Remark	Max

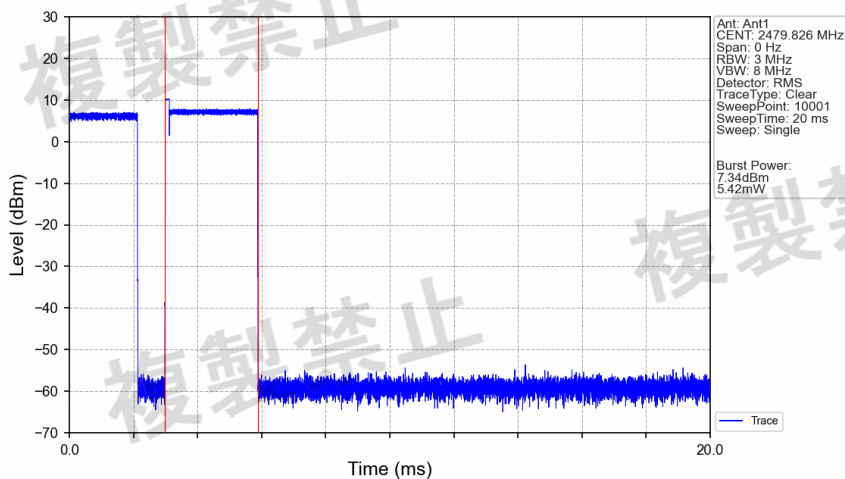
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Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTHV

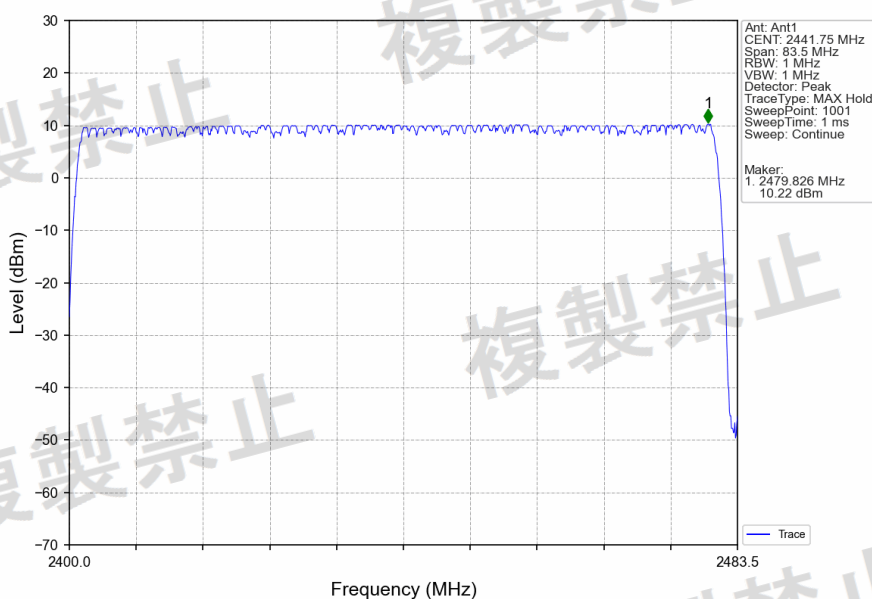


Burst No.	1
Length (ms)	2.904
Power(dBm)	7.34
Power(mW)	5.421
Remark	Max

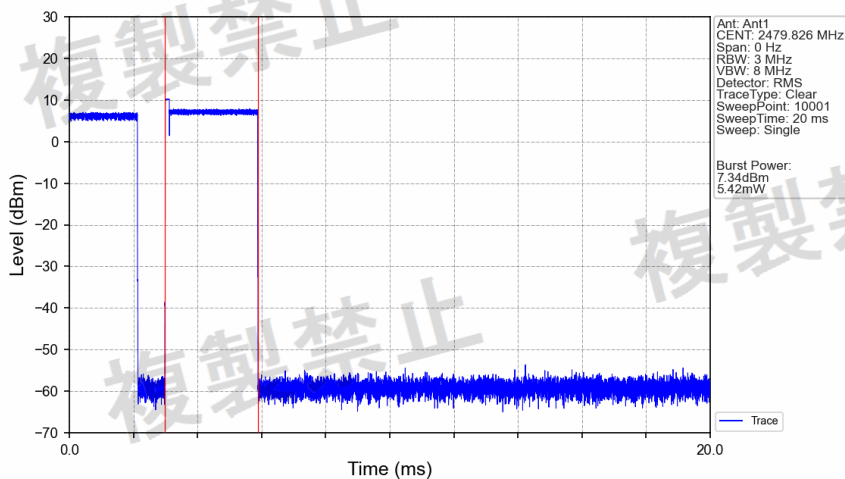
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Pi/4DQPSK_2DH5_HOPP20_Ant1_NTHV



Pi/4DQPSK_2DH5_HOPP20_Ant1_NTHV

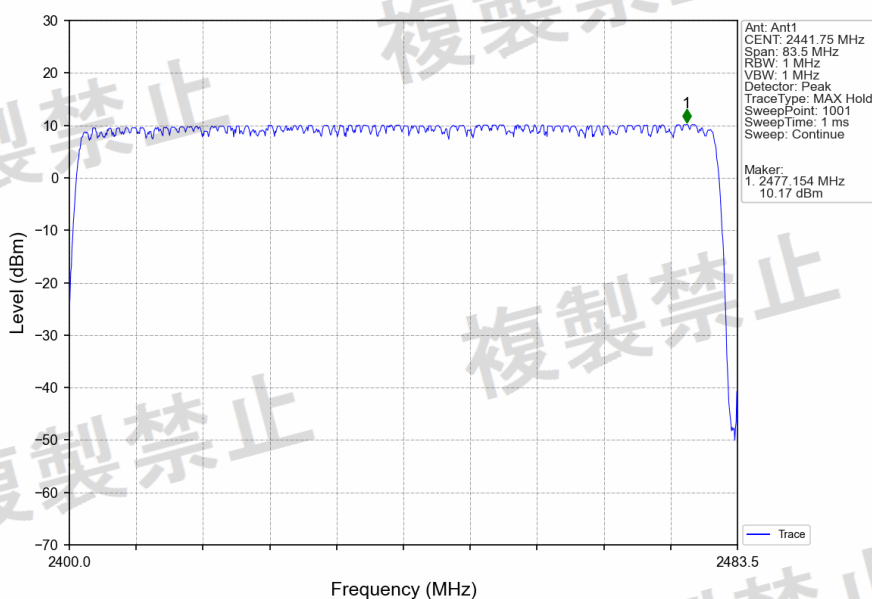


Burst No.	1
Length (ms)	2.904
Power(dBm)	7.34
Power(mW)	5.421
Remark	Max

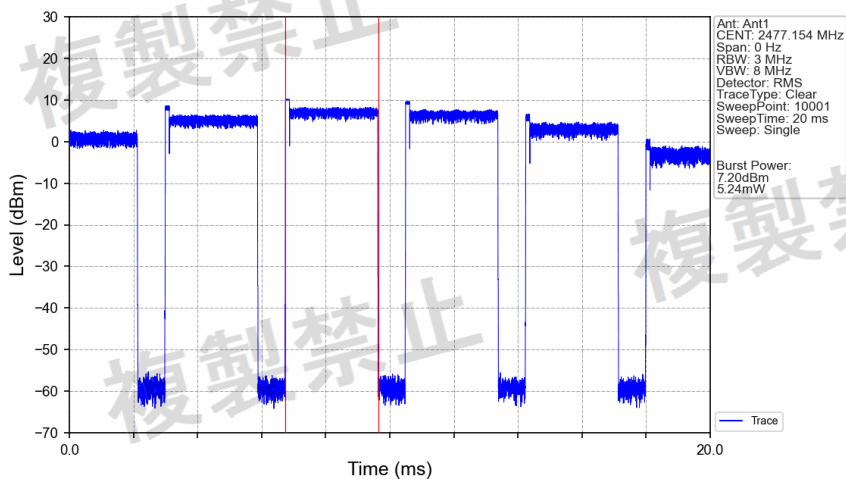
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8DPSK_3DH5_HOPP_Ant1_NTHV



8DPSK_3DH5_HOPP_Ant1_NTHV

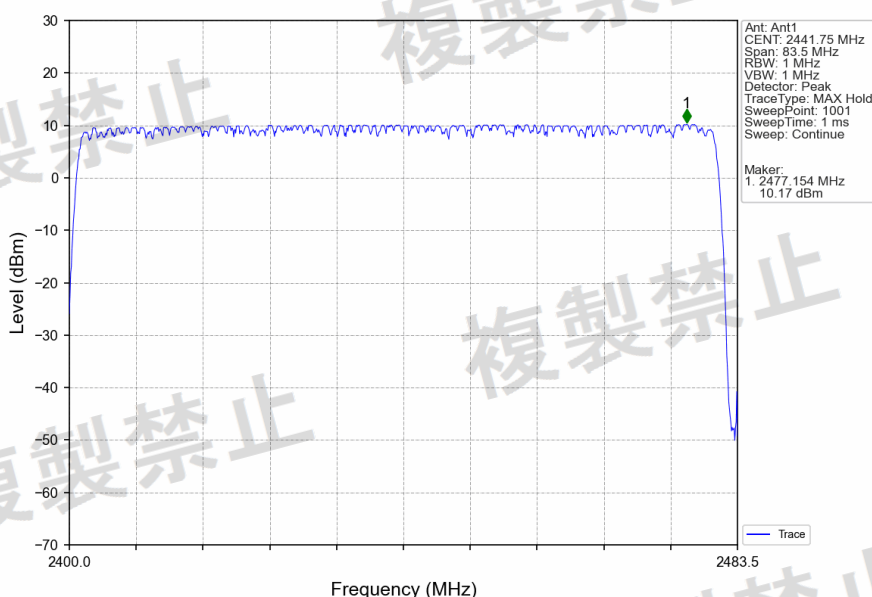


Burst No.	1	2	3	4
Length (ms)	2.906	2.906	2.906	2.906
Power(dBm)	5.31	7.20	6.51	3.15
Power(mW)	3.396	5.243	4.481	2.065
Remark	/	Max	/	/

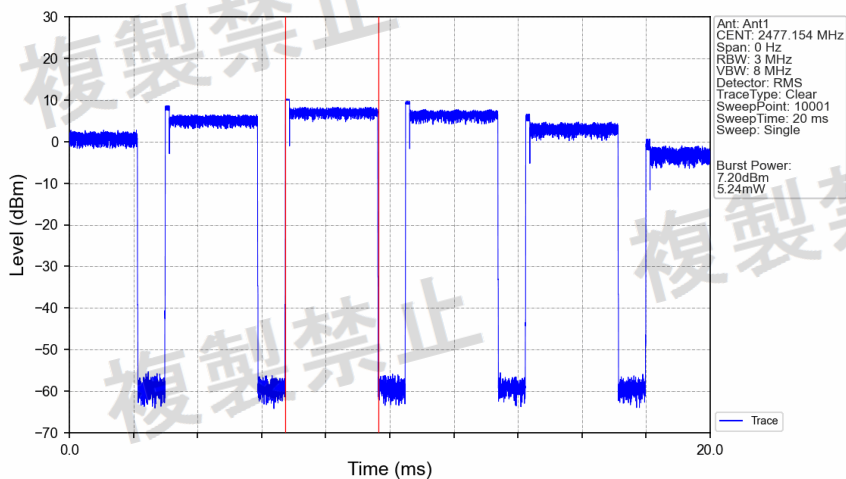
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8DPSK_3DH5_HOPP20_Ant1_NTHV



8DPSK_3DH5_HOPP20_Ant1_NTHV



Burst No.	1	2	3	4
Length (ms)	2.906	2.906	2.906	2.906
Power (dBm)	5.31	7.20	6.51	3.15
Power (mW)	3.396	5.243	4.481	2.065
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	71.487	0.380	2.500	79	55.018	<=400	Pass
				DH3	71.487	1.635	2.500	79	236.722	<=400	Pass
				DH5	71.487	2.883	5.000	79	208.706	<=400	Pass
			2480	DH1	71.487	0.383	1.250	79	110.904	<=400	Pass
				DH3	71.487	1.639	2.500	79	237.301	<=400	Pass
				DH5	71.487	2.887	3.750	79	278.661	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.615	0.387	2.500	79	56.132	<=400	Pass
				2DH3	71.615	1.639	2.500	79	237.726	<=400	Pass
				2DH5	71.615	2.886	5.000	79	209.297	<=400	Pass
			2480	2DH1	71.615	0.393	1.250	79	114.004	<=400	Pass
				2DH3	71.615	1.646	2.500	79	238.741	<=400	Pass
				2DH5	71.615	2.893	3.750	79	279.740	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.139	0.387	2.500	79	55.759	<=400	Pass
				3DH3	71.139	1.638	2.500	79	236.001	<=400	Pass
				3DH5	71.139	2.889	5.000	79	208.122	<=400	Pass
			2480	3DH1	71.139	0.394	1.250	79	113.534	<=400	Pass
				3DH3	71.139	1.645	2.500	79	237.010	<=400	Pass
				3DH5	71.139	2.895	3.750	79	278.072	<=400	Pass
NTLV	GFSK	SISO	2402	DH1	71.491	0.379	2.500	79	54.876	<=400	Pass
				DH3	71.491	1.635	2.500	79	236.735	<=400	Pass
				DH5	71.491	2.884	5.000	79	208.790	<=400	Pass
			2480	DH1	71.491	0.383	1.250	79	110.911	<=400	Pass
				DH3	71.491	1.639	2.500	79	237.314	<=400	Pass
				DH5	71.491	2.888	3.750	79	278.773	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.685	0.387	2.500	79	56.187	<=400	Pass
				2DH3	71.685	1.639	2.500	79	237.958	<=400	Pass
				2DH5	71.685	2.887	5.000	79	209.574	<=400	Pass
			2480	2DH1	71.685	0.393	1.250	79	114.115	<=400	Pass
				2DH3	71.685	1.645	2.500	79	238.829	<=400	Pass
				2DH5	71.685	2.893	3.750	79	280.013	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.297	0.388	2.500	79	56.027	<=400	Pass
				3DH3	71.297	1.638	2.500	79	236.526	<=400	Pass

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				3DH5	71.297	2.888	5.000	79	208.512	<=400	Pass
			2480	3DH1	71.297	0.393	1.250	79	113.498	<=400	Pass
				3DH3	71.297	1.644	2.500	79	237.392	<=400	Pass
				3DH5	71.297	2.895	3.750	79	278.690	<=400	Pass
NTHV	GFSK	SISO	2402	DH1	71.486	0.379	2.500	79	54.872	<=400	Pass
				DH3	71.486	1.635	2.500	79	236.718	<=400	Pass
				DH5	71.486	2.883	5.000	79	208.703	<=400	Pass
			2480	DH1	71.486	0.383	1.250	79	110.903	<=400	Pass
				DH3	71.486	1.639	2.500	79	237.297	<=400	Pass
				DH5	71.486	2.887	3.750	79	278.657	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	71.690	0.387	2.500	79	56.190	<=400	Pass
				2DH3	71.690	1.639	2.500	79	237.975	<=400	Pass
				2DH5	71.690	2.887	5.000	79	209.589	<=400	Pass
			2480	2DH1	71.690	0.394	1.250	79	114.414	<=400	Pass
				2DH3	71.690	1.645	2.500	79	238.846	<=400	Pass
				2DH5	71.690	2.894	3.750	79	280.129	<=400	Pass
	8DPSK	SISO	2402	3DH1	71.516	0.387	2.500	79	56.054	<=400	Pass
				3DH3	71.516	1.638	2.500	79	237.252	<=400	Pass
				3DH5	71.516	2.889	5.000	79	209.225	<=400	Pass
			2480	3DH1	71.516	0.394	1.250	79	114.136	<=400	Pass
				3DH3	71.516	1.644	2.500	79	238.121	<=400	Pass
				3DH5	71.516	2.895	3.750	79	279.546	<=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	18.560	0.380	2.500	20	56.422	<=400	Pass
				DH3	18.560	1.635	2.500	20	242.765	<=400	Pass
				DH5	18.560	2.883	5.000	20	214.034	<=400	Pass
			2480	DH1	18.560	0.383	1.250	20	113.736	<=400	Pass
				DH3	18.560	1.639	2.500	20	243.359	<=400	Pass
				DH5	18.560	2.887	3.750	20	285.775	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.576	0.387	2.500	20	57.511	<=400	Pass
				2DH3	18.576	1.639	2.500	20	243.569	<=400	Pass
				2DH5	18.576	2.886	5.000	20	214.441	<=400	Pass
			2480	2DH1	18.576	0.393	1.250	20	116.806	<=400	Pass
				2DH3	18.576	1.646	2.500	20	244.609	<=400	Pass
				2DH5	18.576	2.893	3.750	20	286.615	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.443	0.387	2.500	20	57.100	<=400	Pass
				3DH3	18.443	1.638	2.500	20	241.677	<=400	Pass
				3DH5	18.443	2.889	5.000	20	213.127	<=400	Pass
			2480	3DH1	18.443	0.394	1.250	20	116.265	<=400	Pass
				3DH3	18.443	1.645	2.500	20	242.710	<=400	Pass
				3DH5	18.443	2.895	3.750	20	284.760	<=400	Pass
NTLV	GFSK	SISO	2402	DH1	18.559	0.379	2.500	20	56.271	<=400	Pass
				DH3	18.559	1.635	2.500	20	242.752	<=400	Pass
				DH5	18.559	2.884	5.000	20	214.097	<=400	Pass
			2480	DH1	18.559	0.383	1.250	20	113.730	<=400	Pass
				DH3	18.559	1.639	2.500	20	243.346	<=400	Pass
				DH5	18.559	2.888	3.750	20	285.858	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.622	0.387	2.500	20	57.654	<=400	Pass
				2DH3	18.622	1.639	2.500	20	244.172	<=400	Pass
				2DH5	18.622	2.887	5.000	20	215.047	<=400	Pass
			2480	2DH1	18.622	0.393	1.250	20	117.095	<=400	Pass
				2DH3	18.622	1.645	2.500	20	245.066	<=400	Pass
				2DH5	18.622	2.893	3.750	20	287.325	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.675	0.388	2.500	20	57.967	<=400	Pass
				3DH3	18.675	1.638	2.500	20	244.717	<=400	Pass
				3DH5	18.675	2.888	5.000	20	215.734	<=400	Pass
			2480	3DH1	18.675	0.393	1.250	20	117.428	<=400	Pass

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				3DH3	18.675	1.644	2.500	20	245.614	<=400	Pass
				3DH5	18.675	2.895	3.750	20	288.342	<=400	Pass
NTHV	GFSK	SISO	2402	DH1	18.560	0.379	2.500	20	56.274	<=400	Pass
				DH3	18.560	1.635	2.500	20	242.765	<=400	Pass
				DH5	18.560	2.883	5.000	20	214.034	<=400	Pass
			2480	DH1	18.560	0.383	1.250	20	113.736	<=400	Pass
				DH3	18.560	1.639	2.500	20	243.359	<=400	Pass
				DH5	18.560	2.887	3.750	20	285.775	<=400	Pass
	Pi/4DQPSK	SISO	2402	2DH1	18.514	0.387	2.500	20	57.319	<=400	Pass
				2DH3	18.514	1.639	2.500	20	242.756	<=400	Pass
				2DH5	18.514	2.887	5.000	20	213.800	<=400	Pass
			2480	2DH1	18.514	0.394	1.250	20	116.712	<=400	Pass
				2DH3	18.514	1.645	2.500	20	243.644	<=400	Pass
				2DH5	18.514	2.894	3.750	20	285.757	<=400	Pass
	8DPSK	SISO	2402	3DH1	18.654	0.387	2.500	20	57.753	<=400	Pass
				3DH3	18.654	1.638	2.500	20	244.442	<=400	Pass
				3DH5	18.654	2.889	5.000	20	215.566	<=400	Pass
			2480	3DH1	18.654	0.394	1.250	20	117.595	<=400	Pass
				3DH3	18.654	1.644	2.500	20	245.337	<=400	Pass
				3DH5	18.654	2.895	3.750	20	288.018	<=400	Pass

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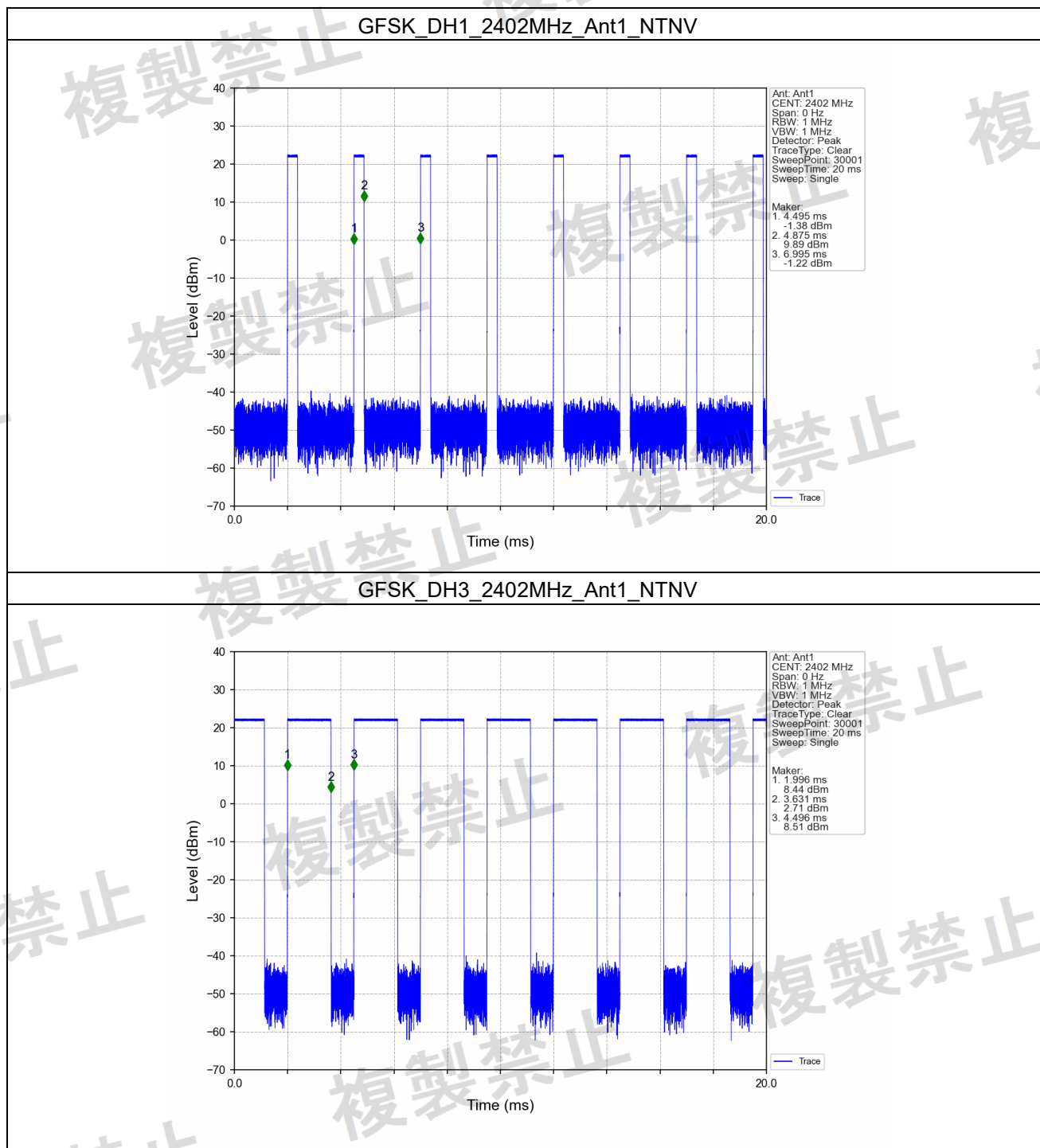
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Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5.2 Test Graph

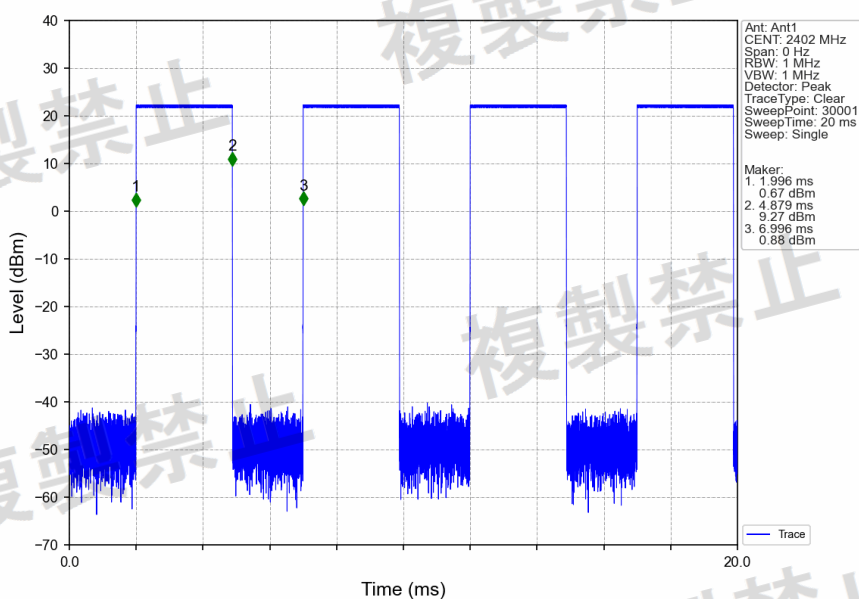
5.2.1 Ant1



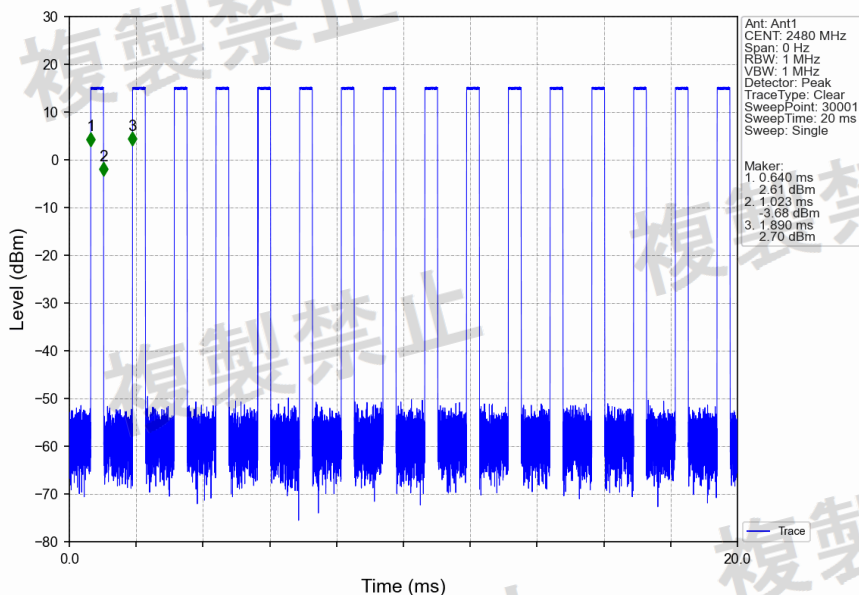
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GFSK_DH5_2402MHz_Ant1_NTNV



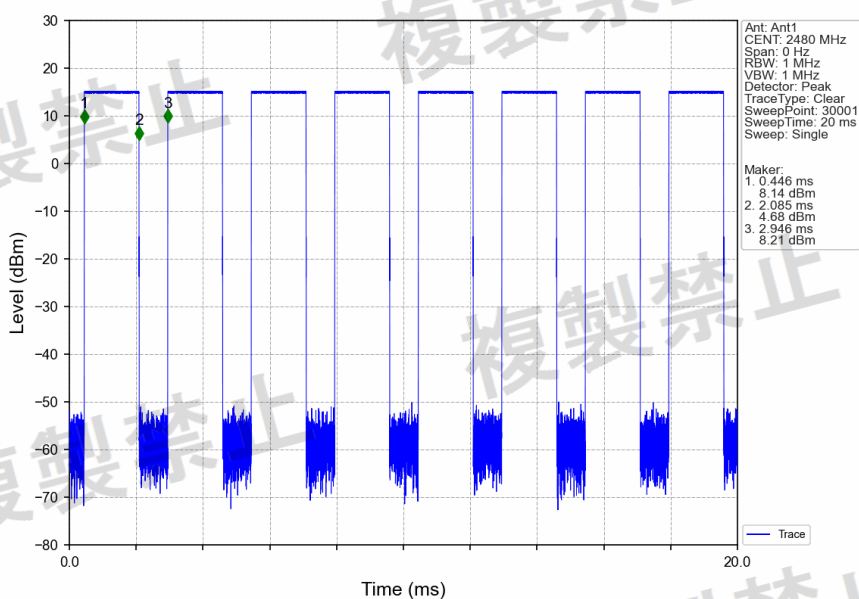
GFSK_DH1_2480MHz_Ant1_NTNV



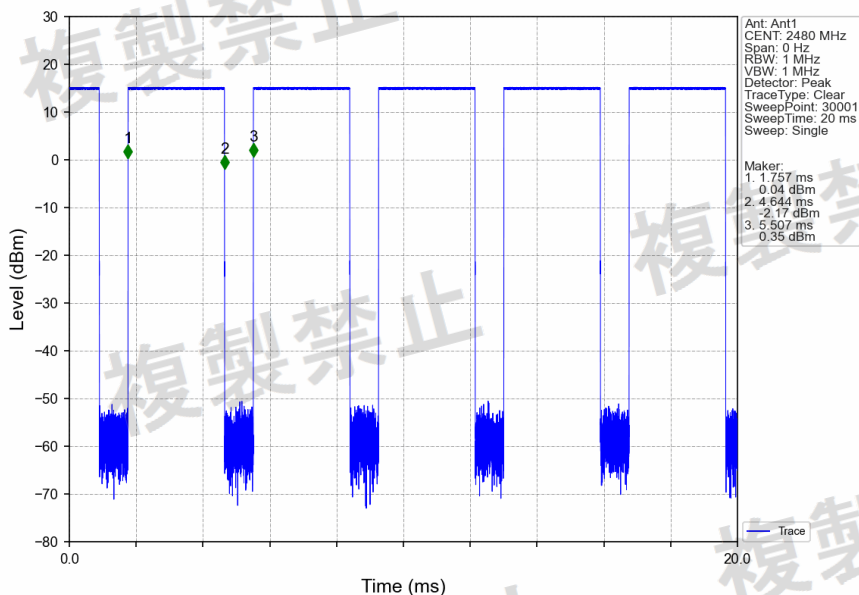
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GFSK_DH3_2480MHz_Ant1_NTNV



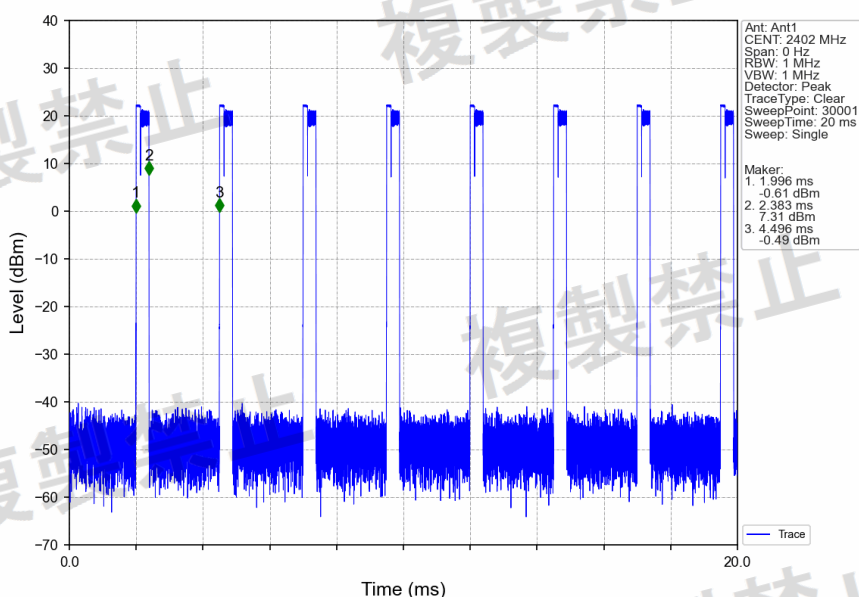
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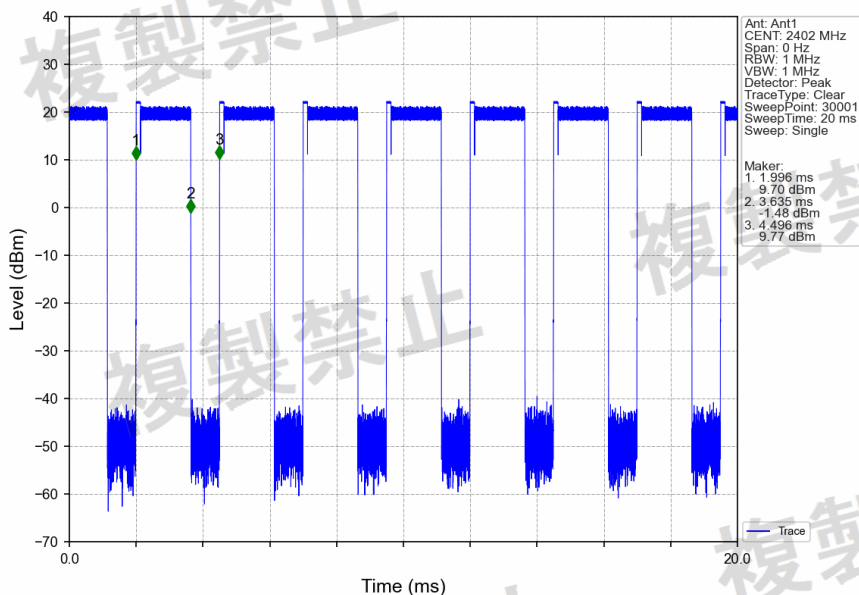
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



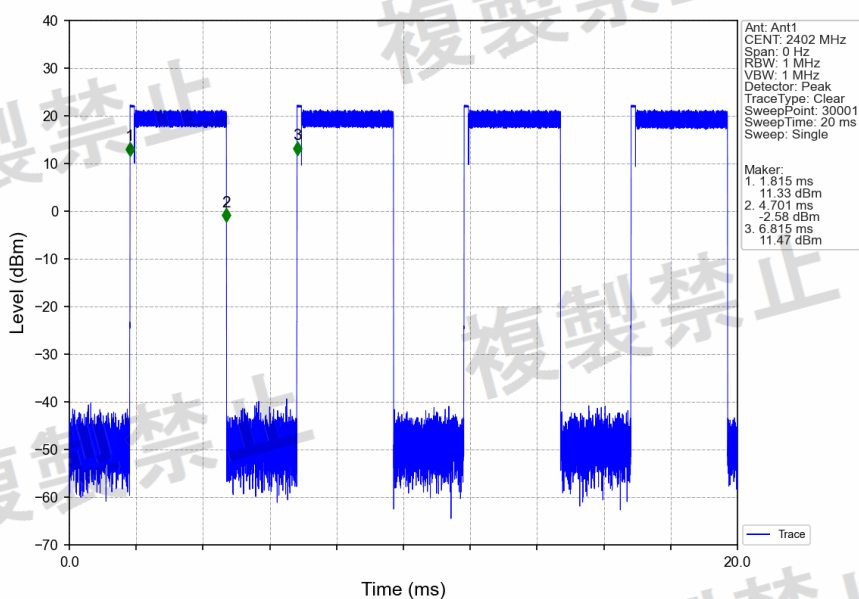
Pi/4DQPSK_2DH3_2402MHz_Ant1_NTNV



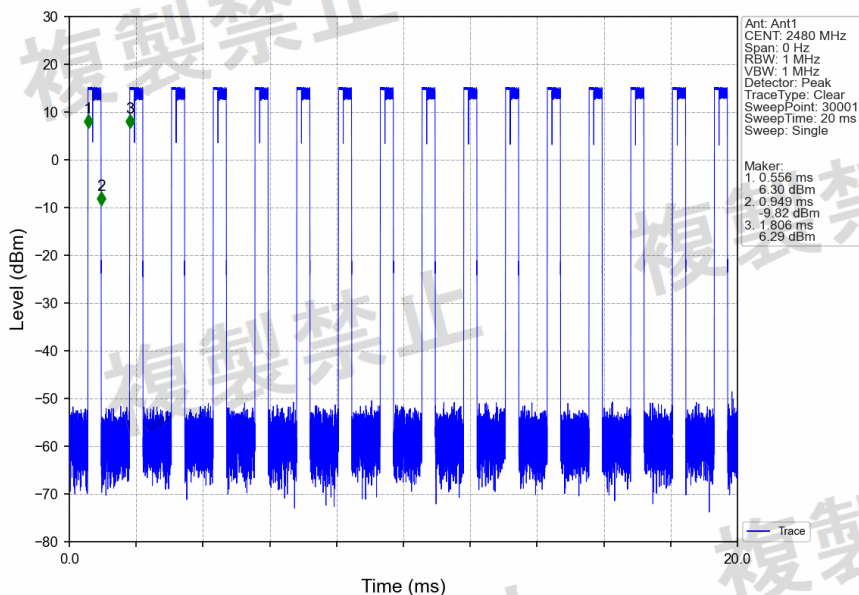
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



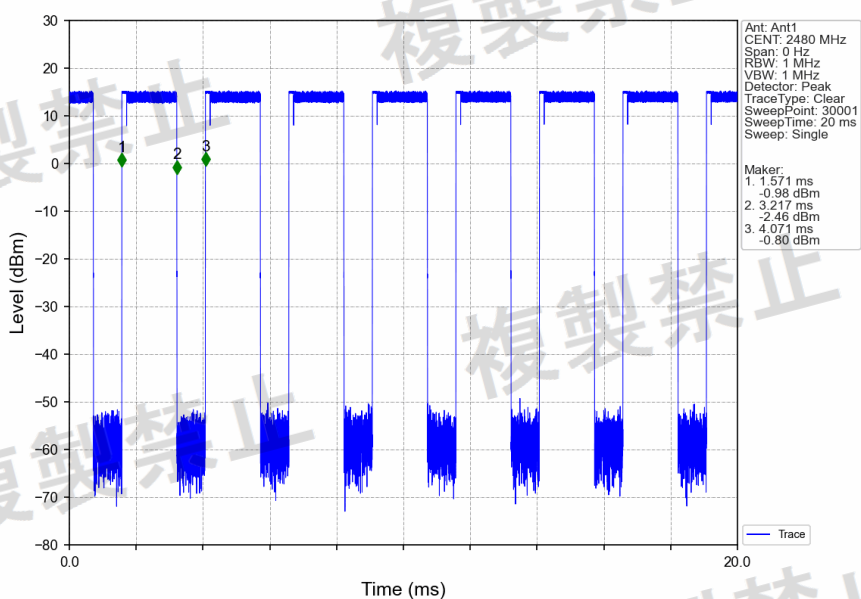
Pi/4DQPSK_2DH1_2480MHz_Ant1_NTNV



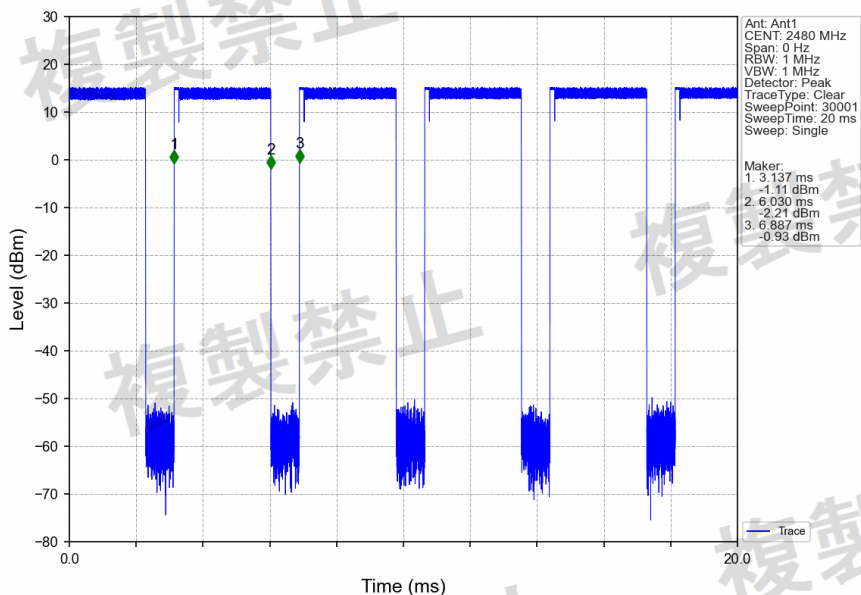
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTNV



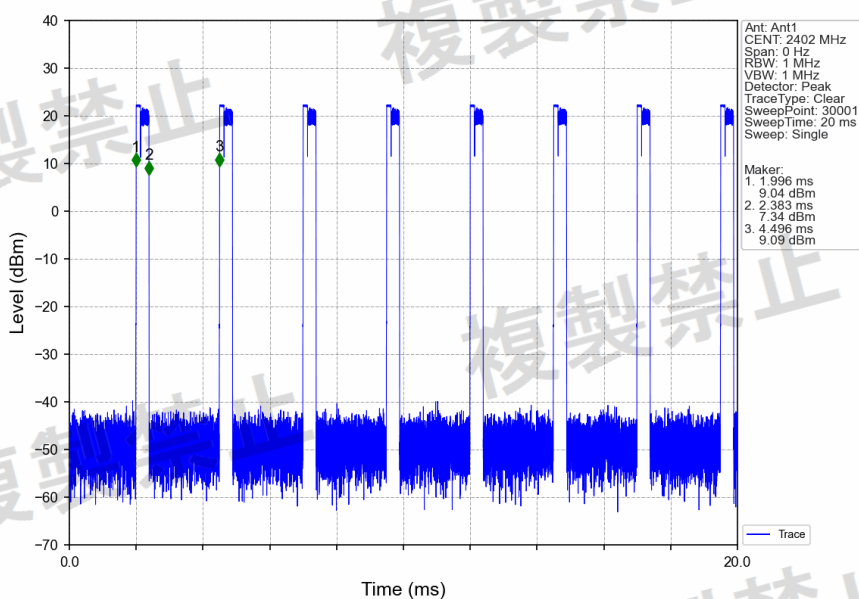
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



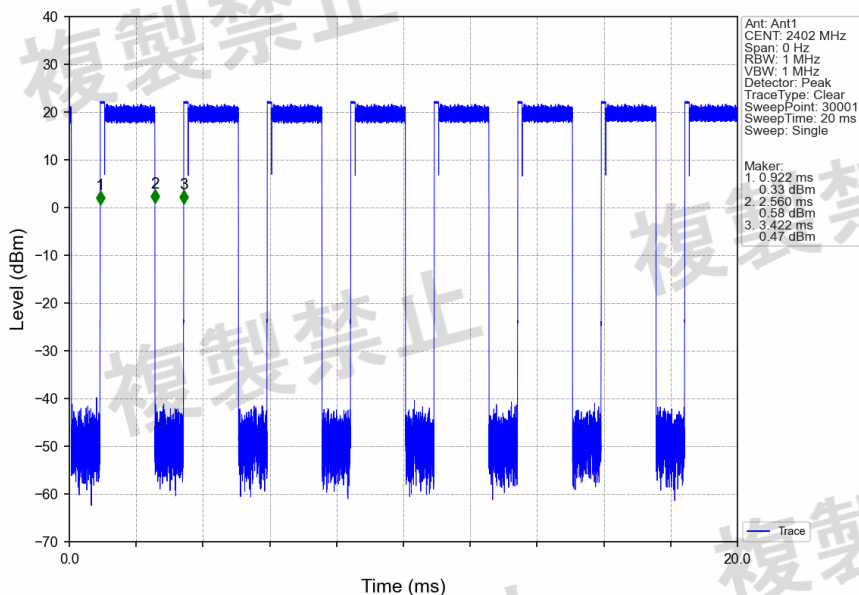
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8DPSK_3DH1_2402MHz_Ant1_NTNV



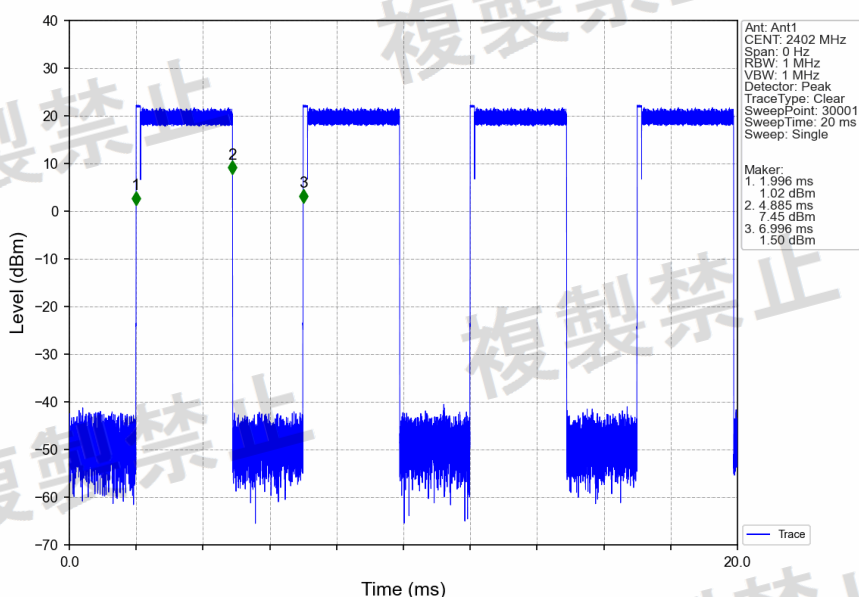
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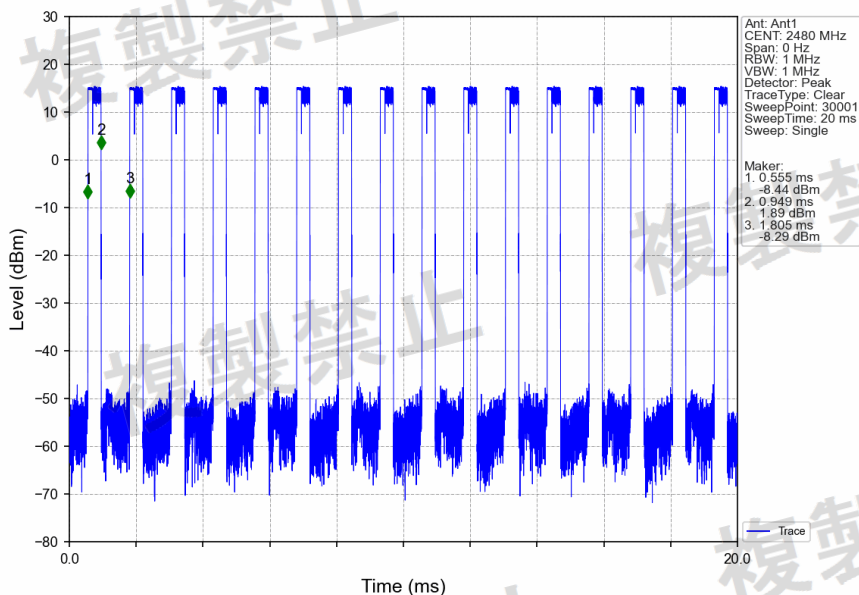
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8DPSK_3DH5_2402MHz_Ant1_NTNV



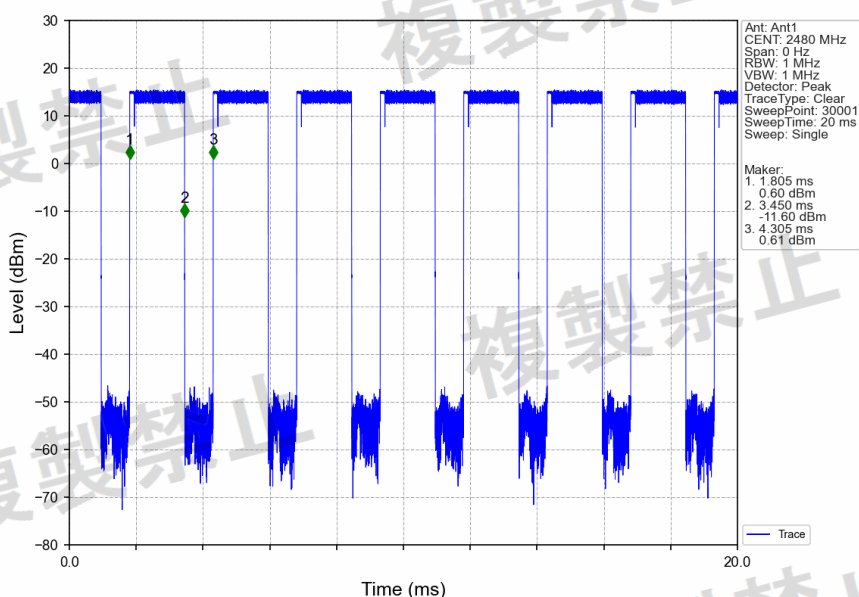
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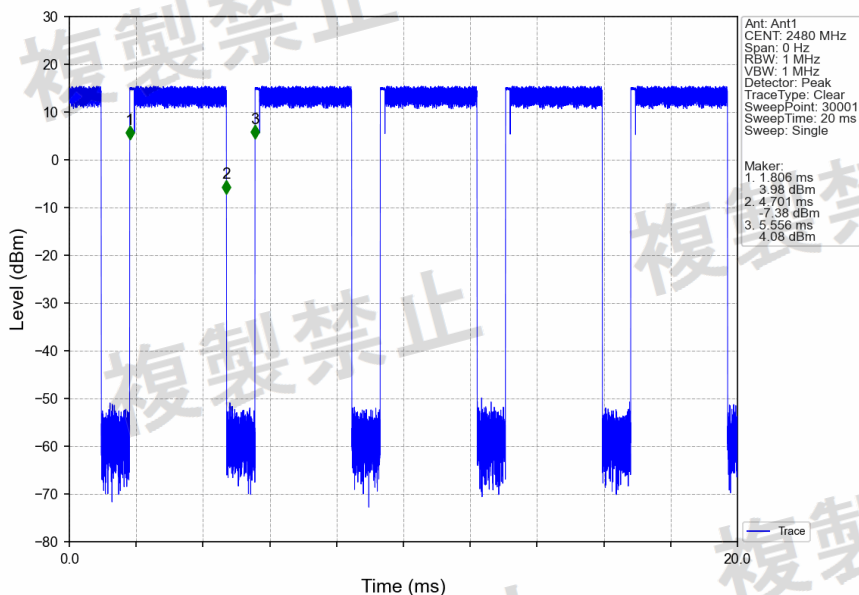
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8DPSK_3DH3_2480MHz_Ant1_NTNV



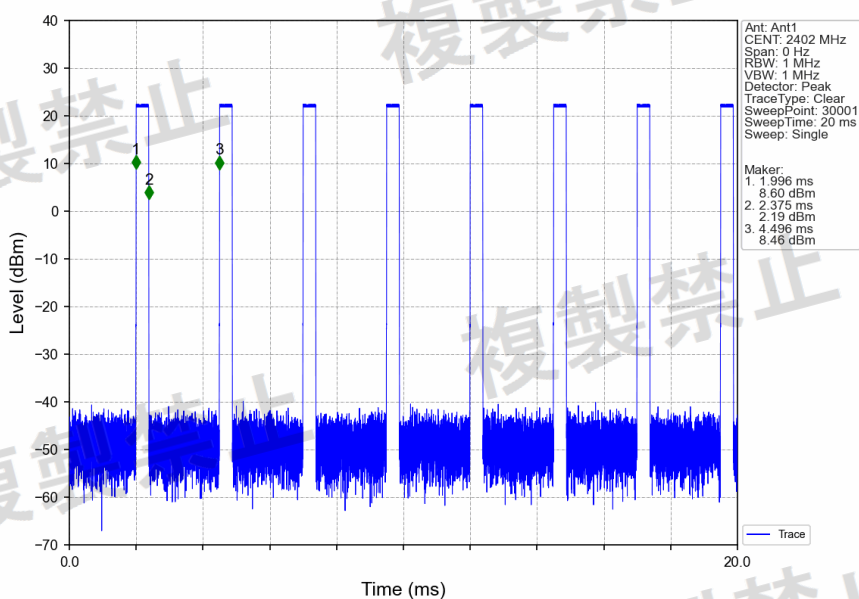
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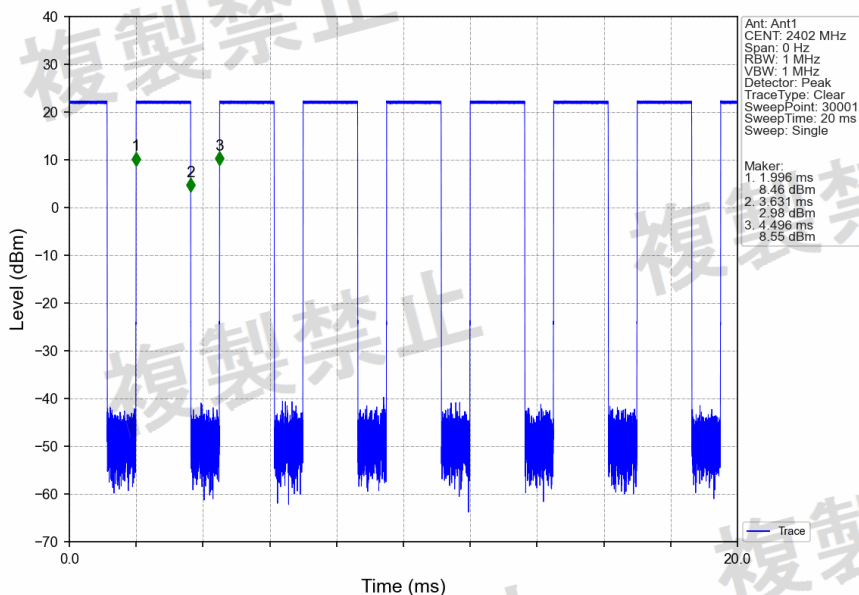
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GFSK_DH1_2402MHz_Ant1_NTLV



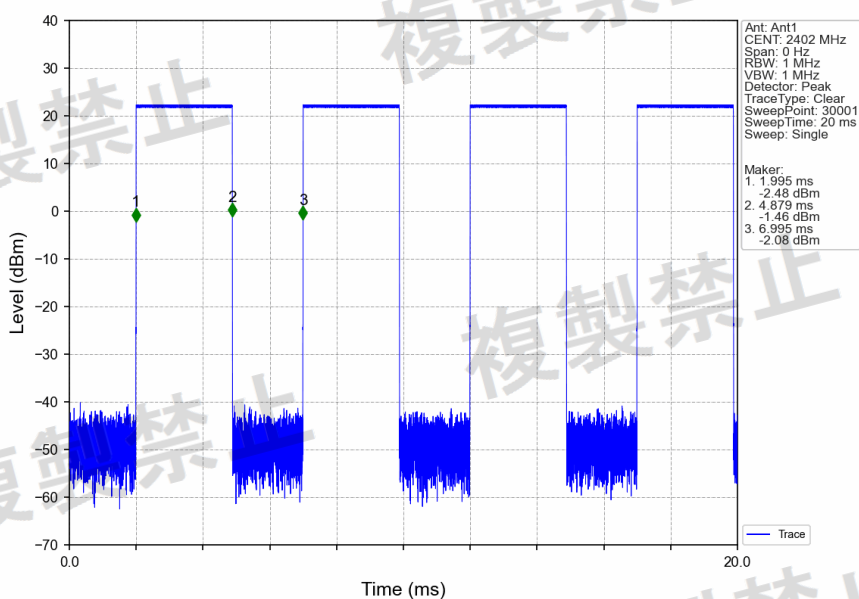
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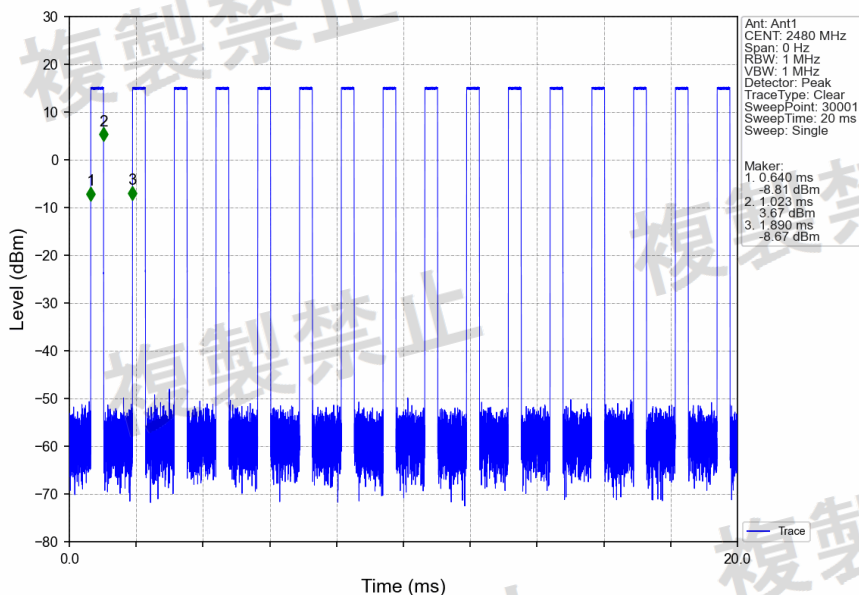
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GFSK_DH5_2402MHz_Ant1_NTLV



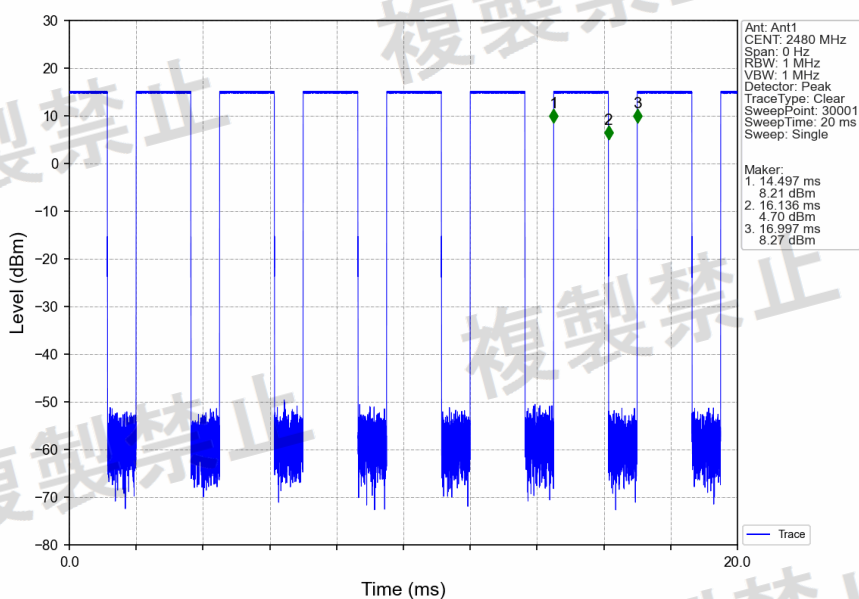
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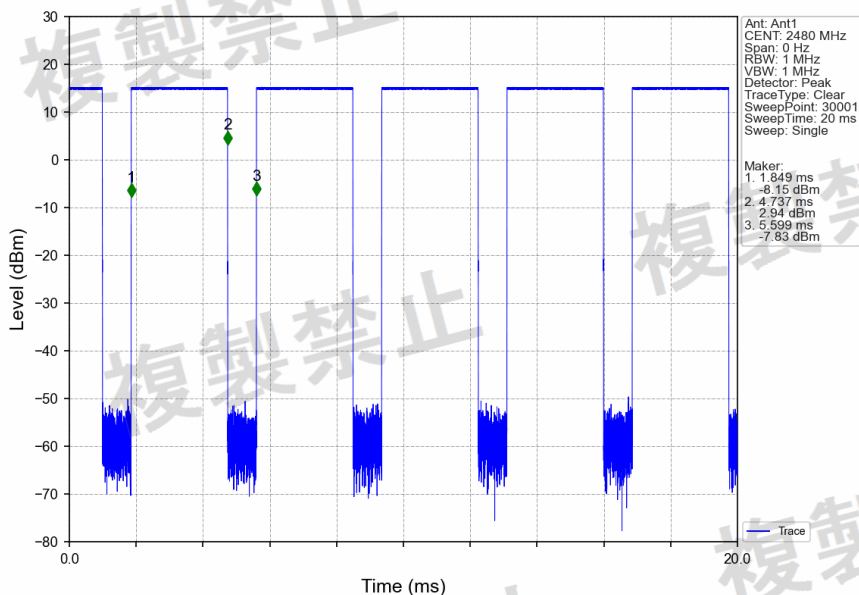
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GFSK_DH3_2480MHz_Ant1_NTLV



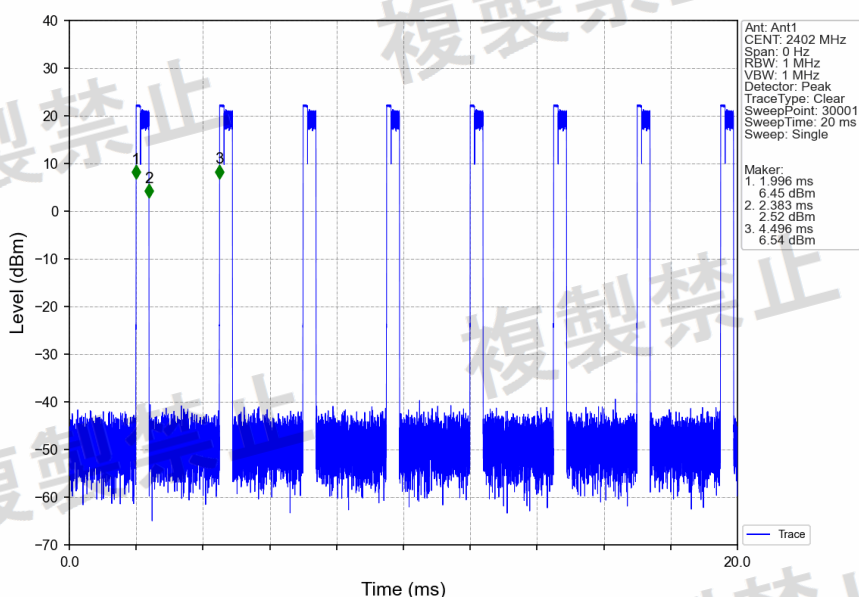
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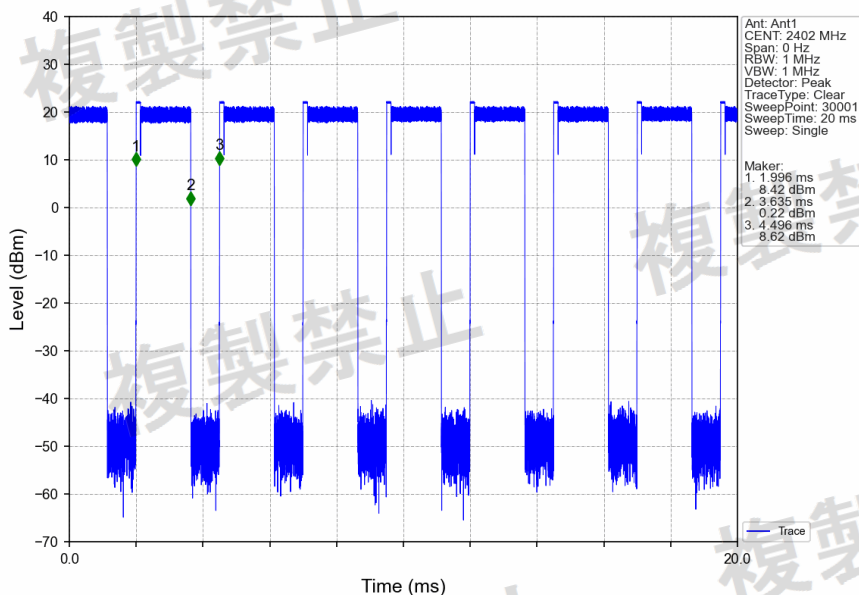
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTLV



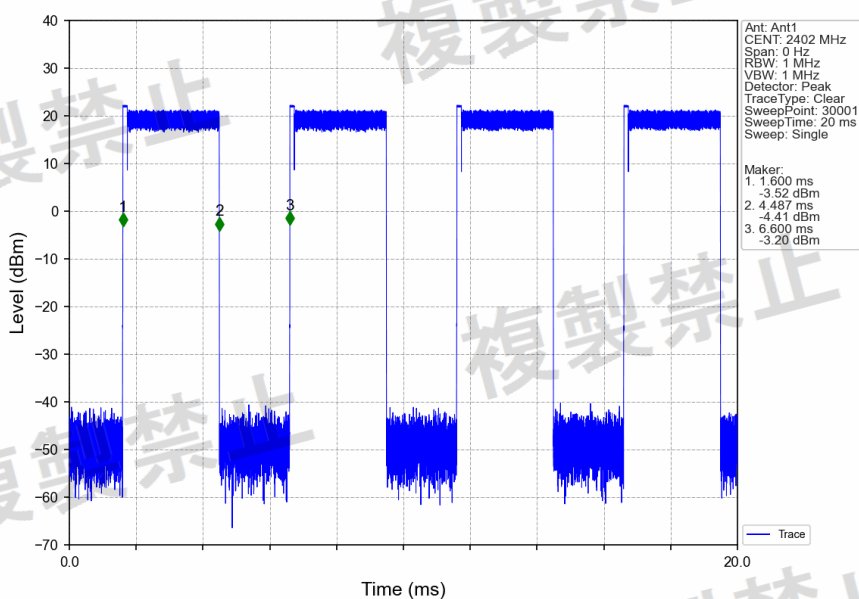
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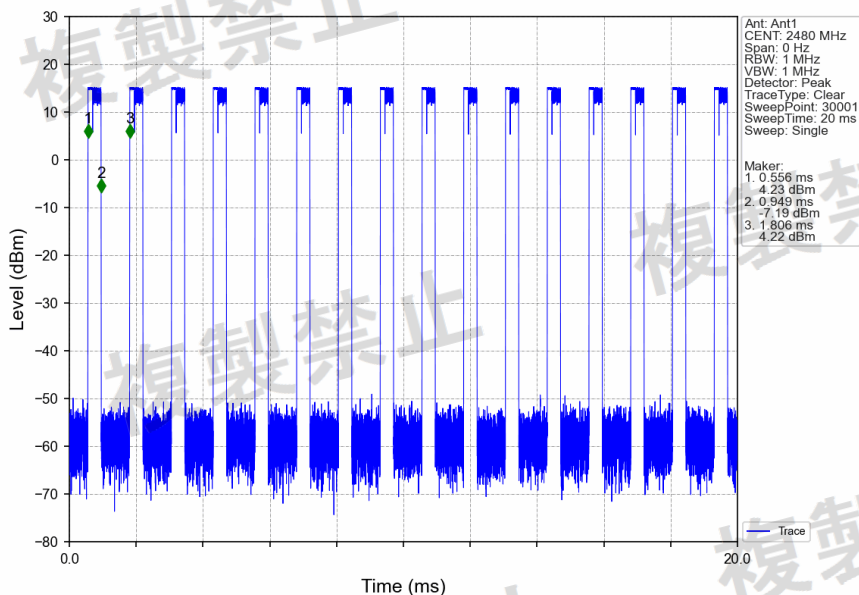
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



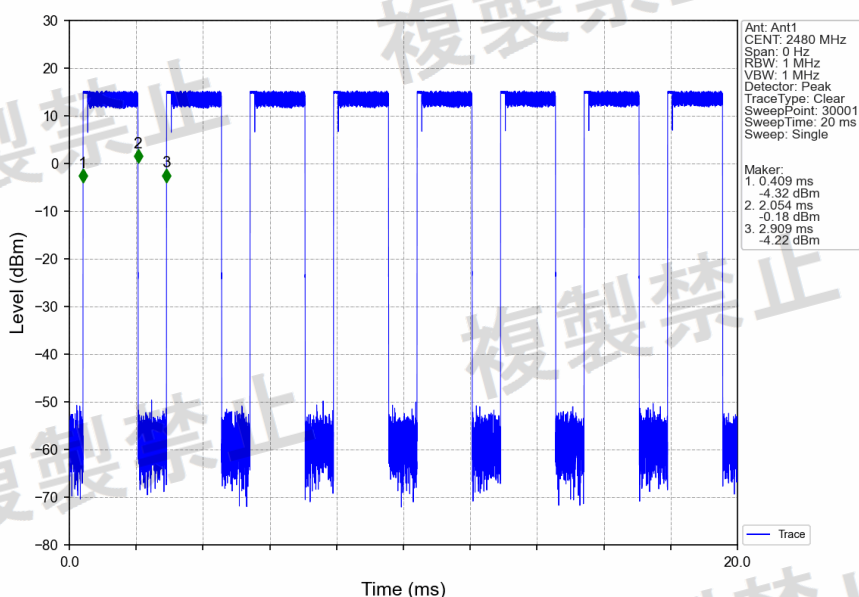
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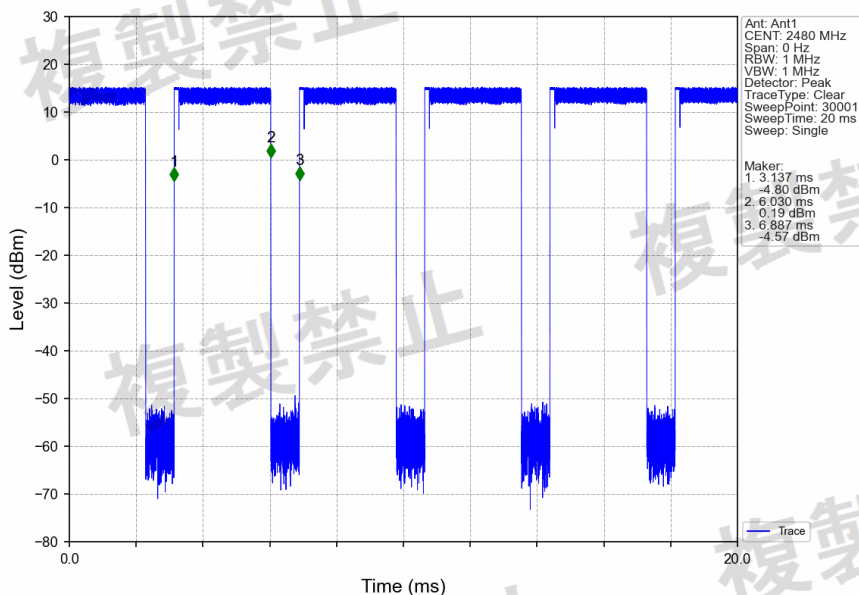
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTLV



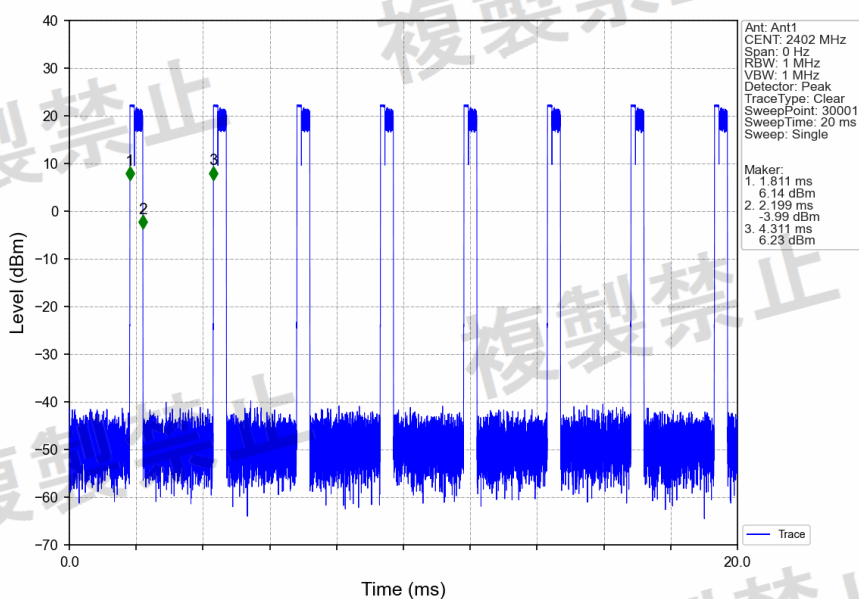
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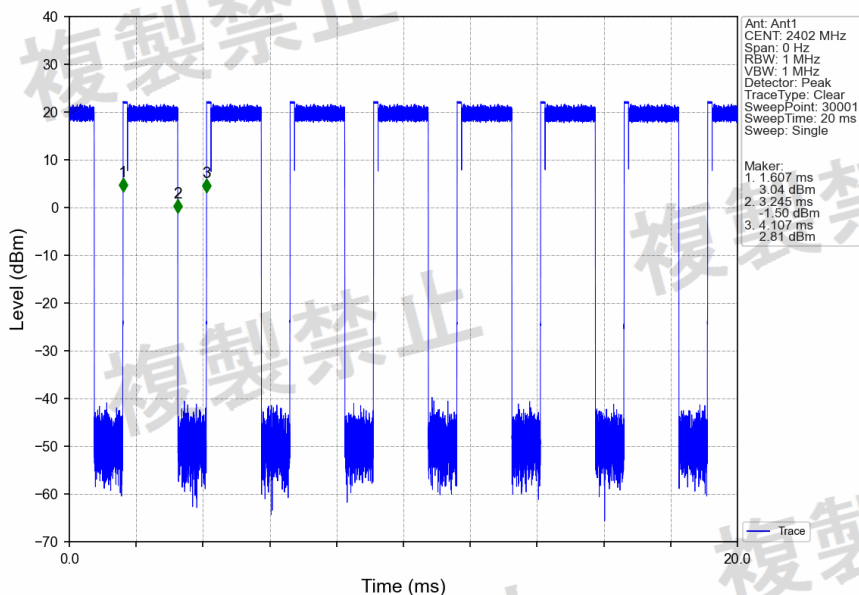
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8DPSK_3DH1_2402MHz_Ant1_NTLV



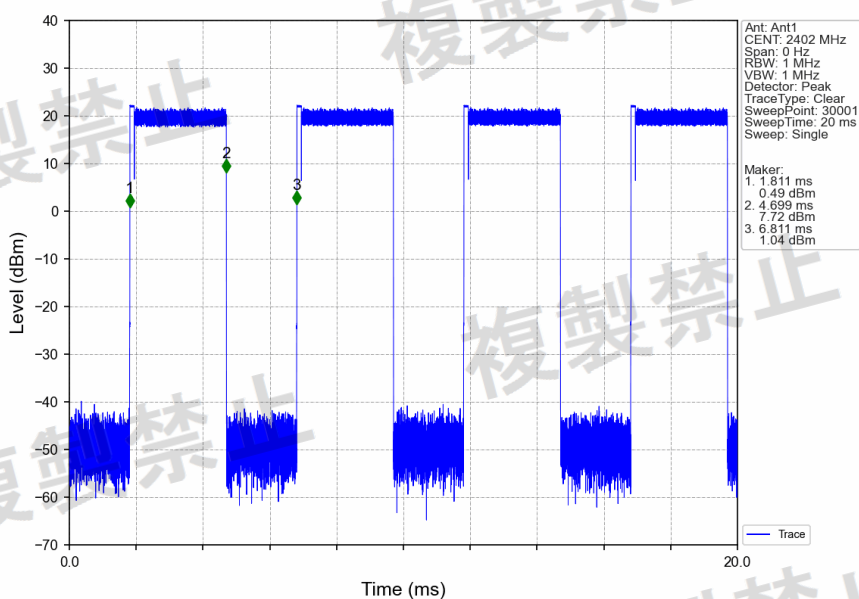
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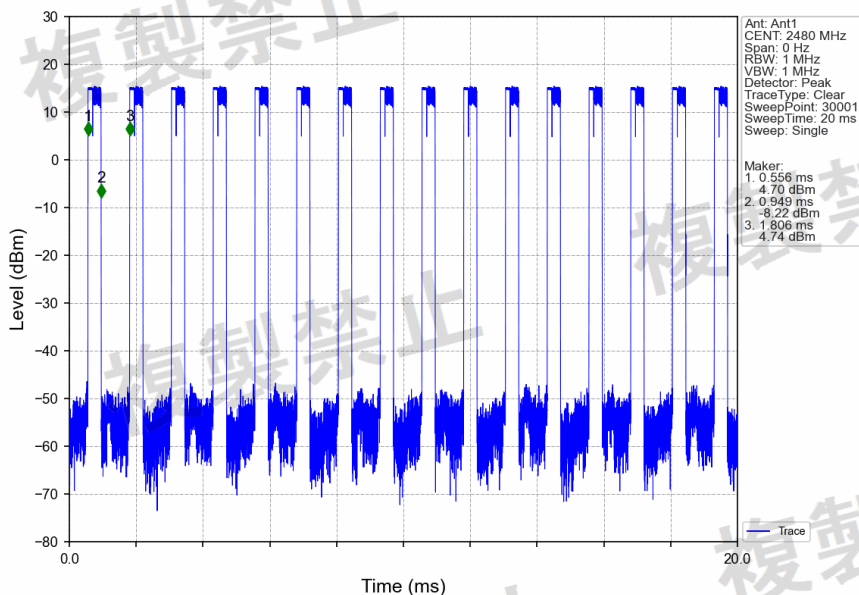
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8DPSK_3DH5_2402MHz_Ant1_NTLV



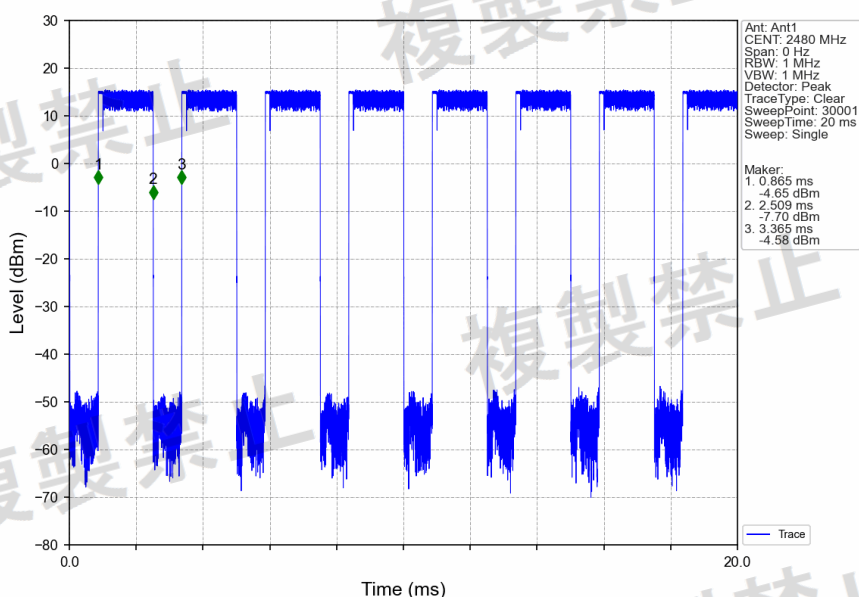
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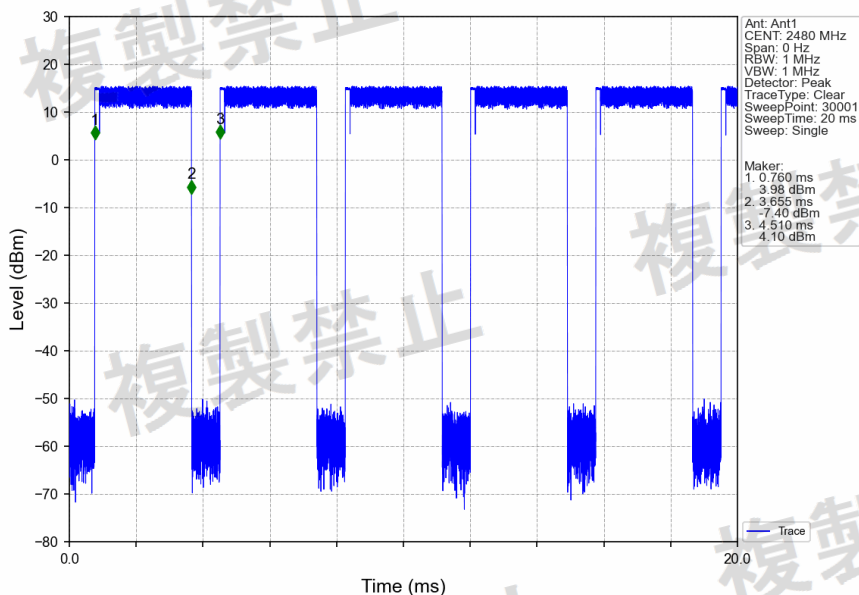
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8DPSK_3DH3_2480MHz_Ant1_NTLV



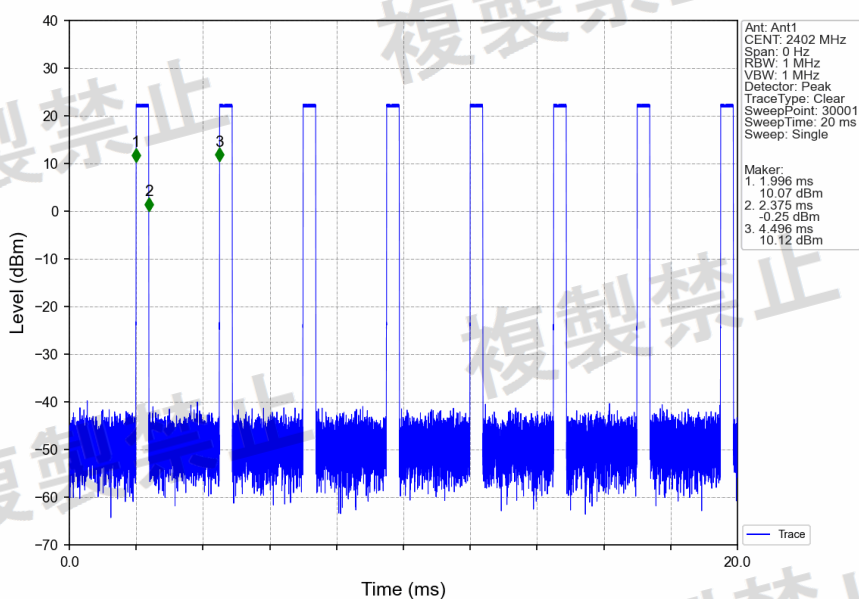
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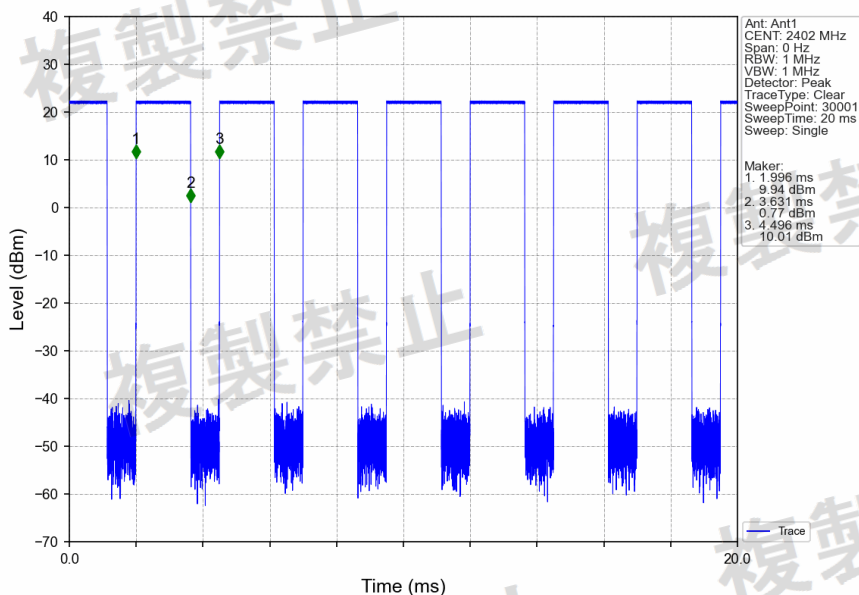
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GFSK_DH1_2402MHz_Ant1_NTHV



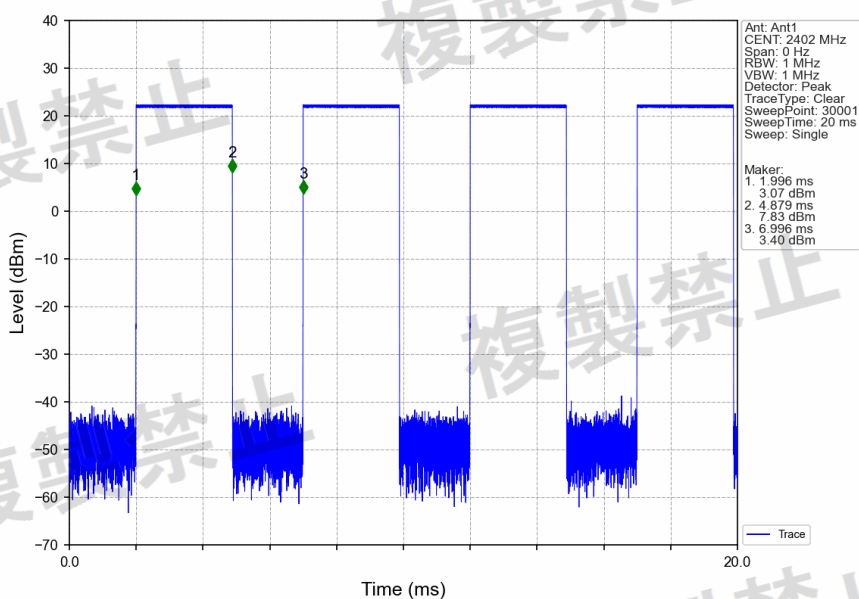
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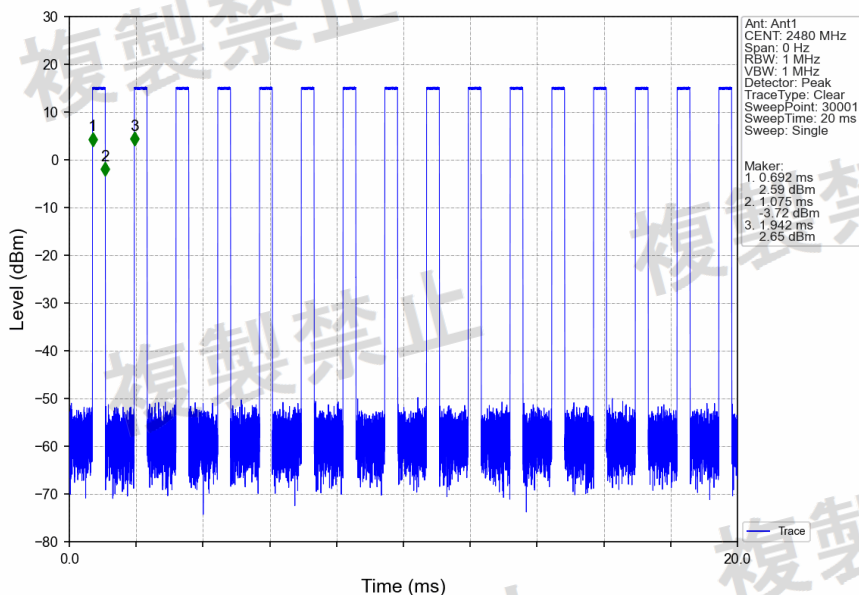
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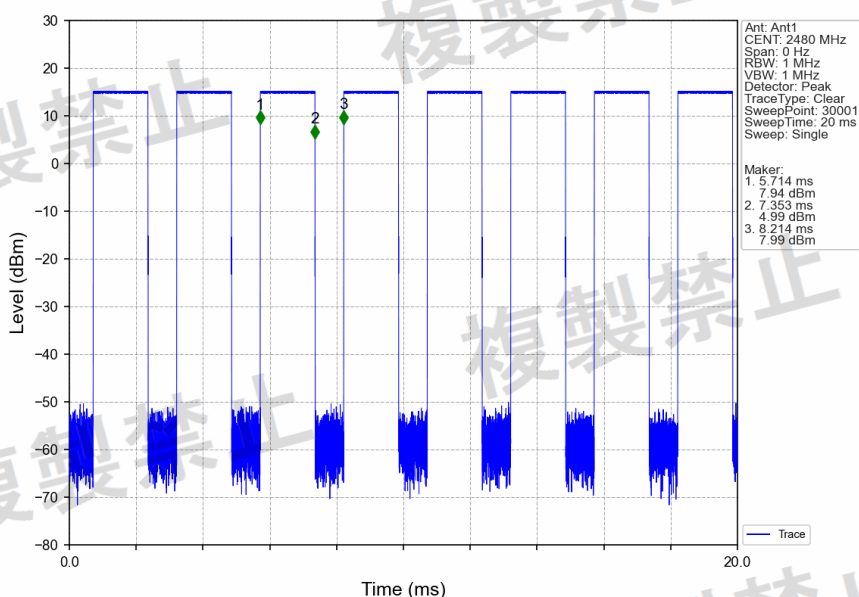
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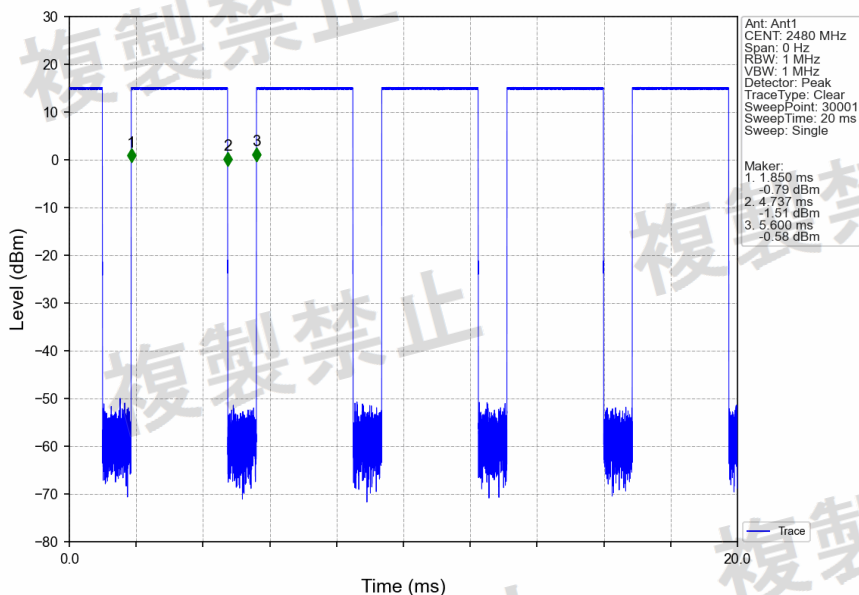
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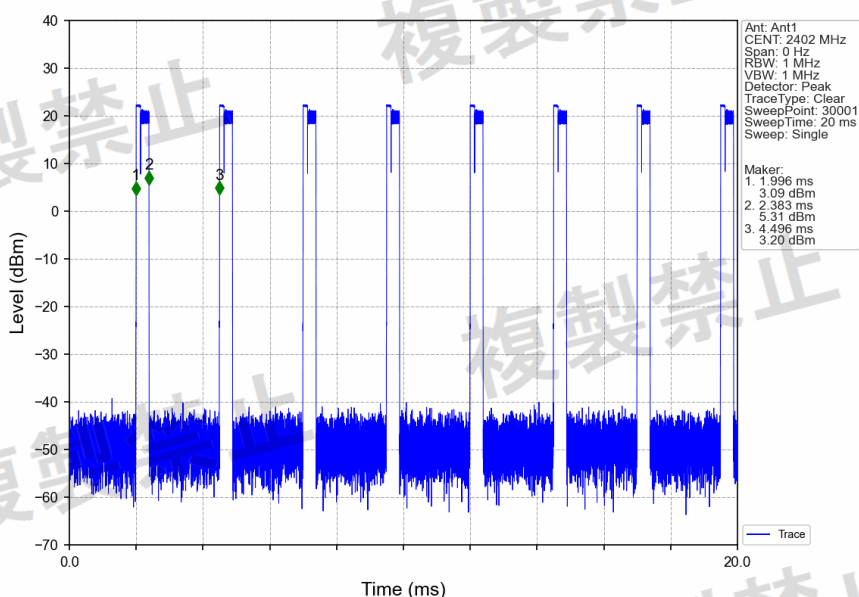
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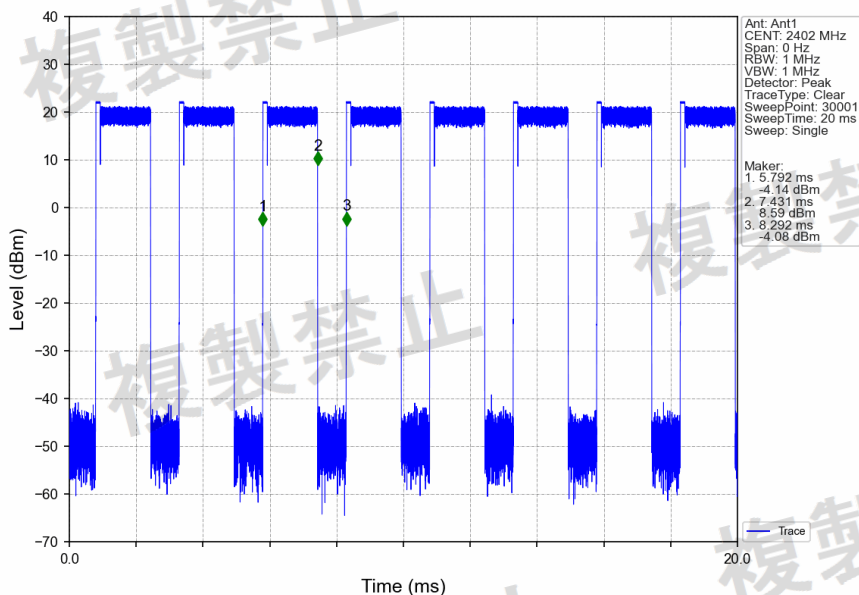
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTHV



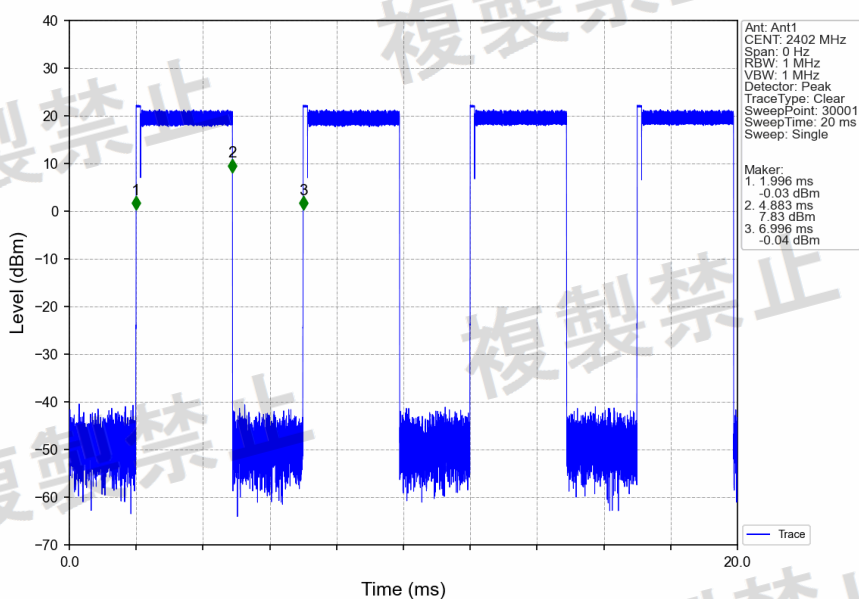
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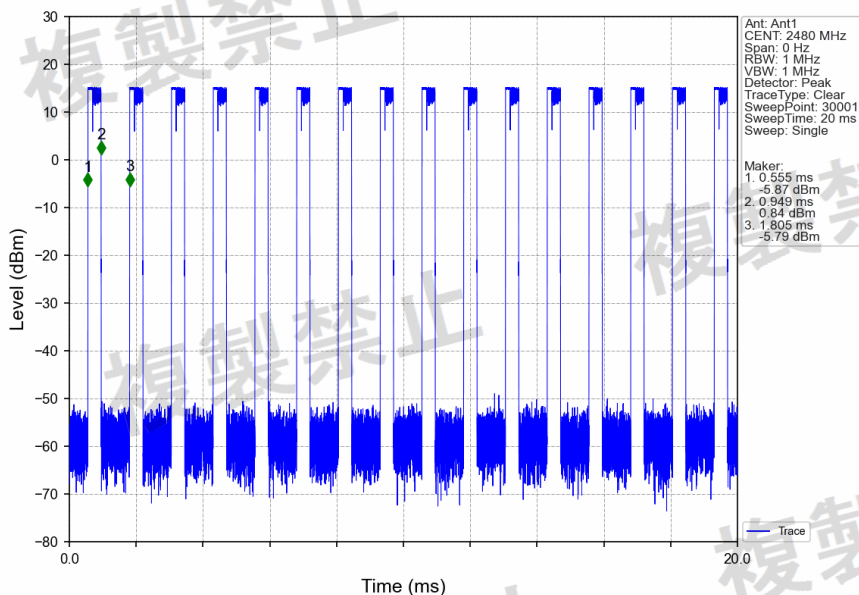
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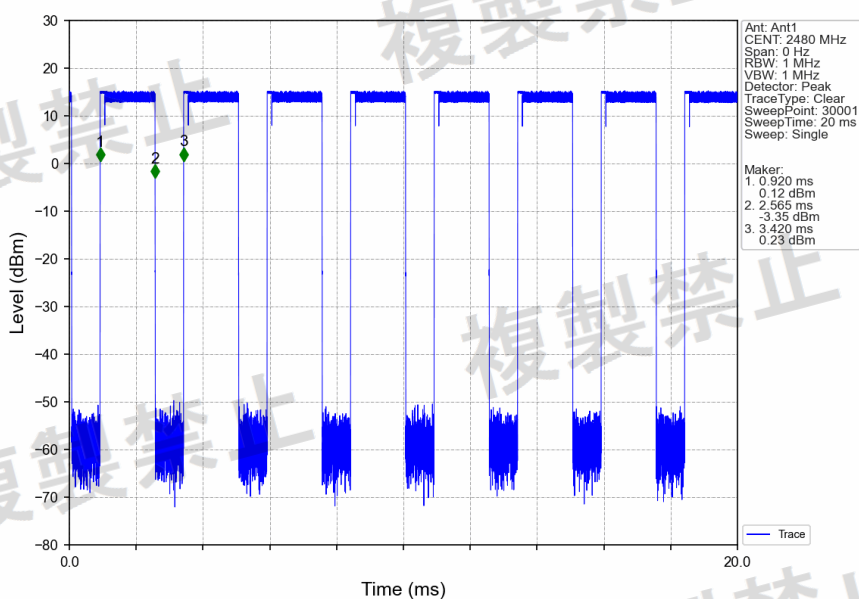
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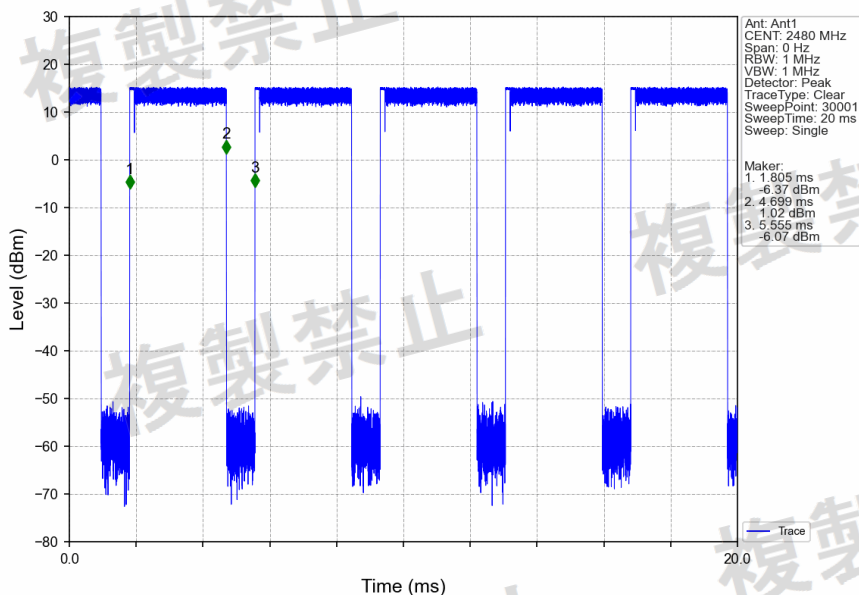
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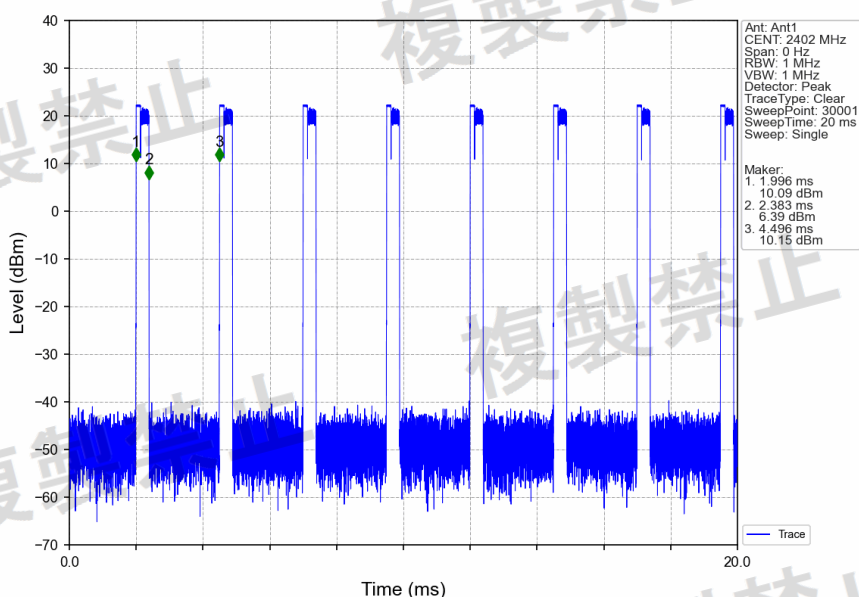
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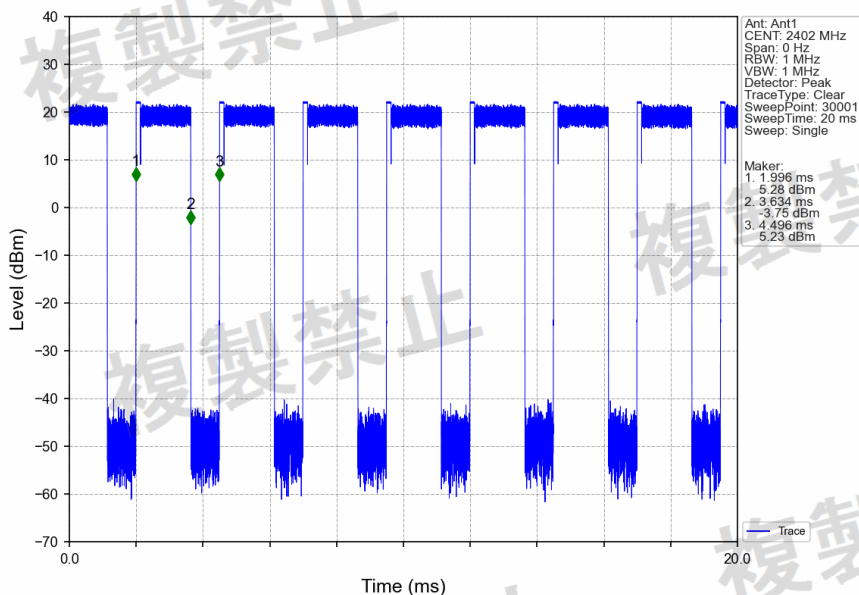
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8DPSK_3DH1_2402MHz_Ant1_NTHV



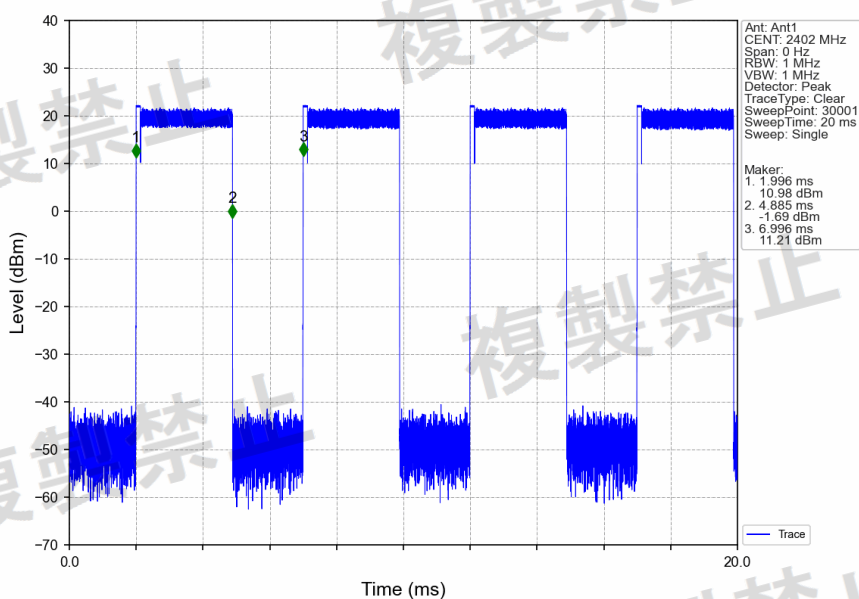
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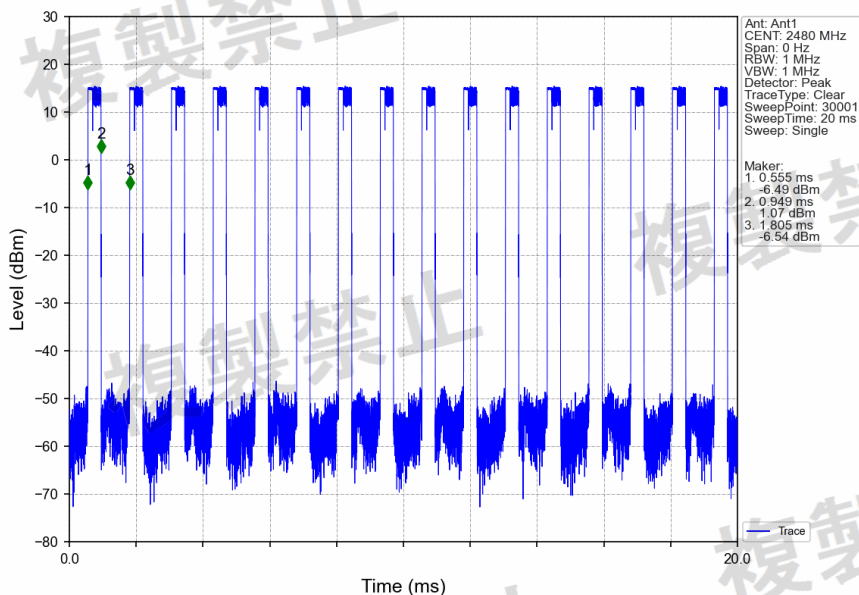
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8DPSK_3DH5_2402MHz_Ant1_NTHV



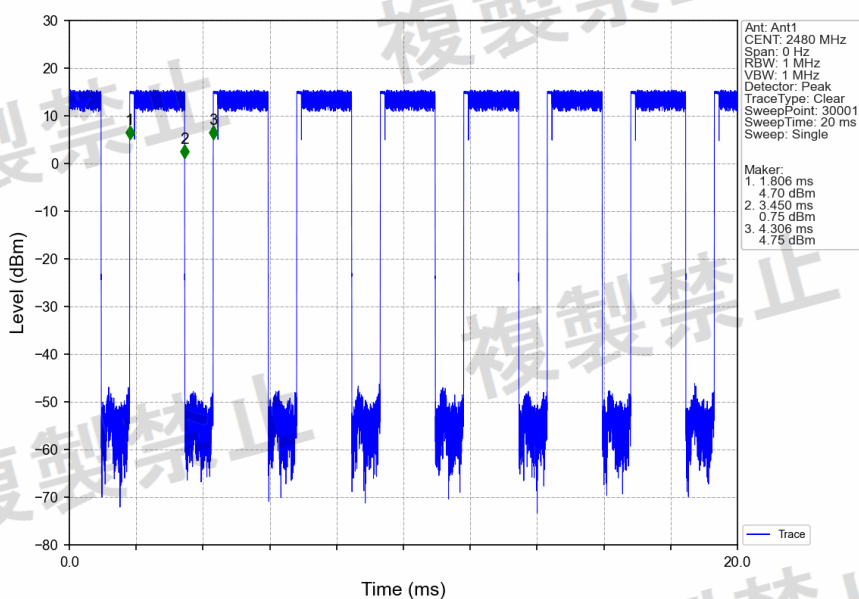
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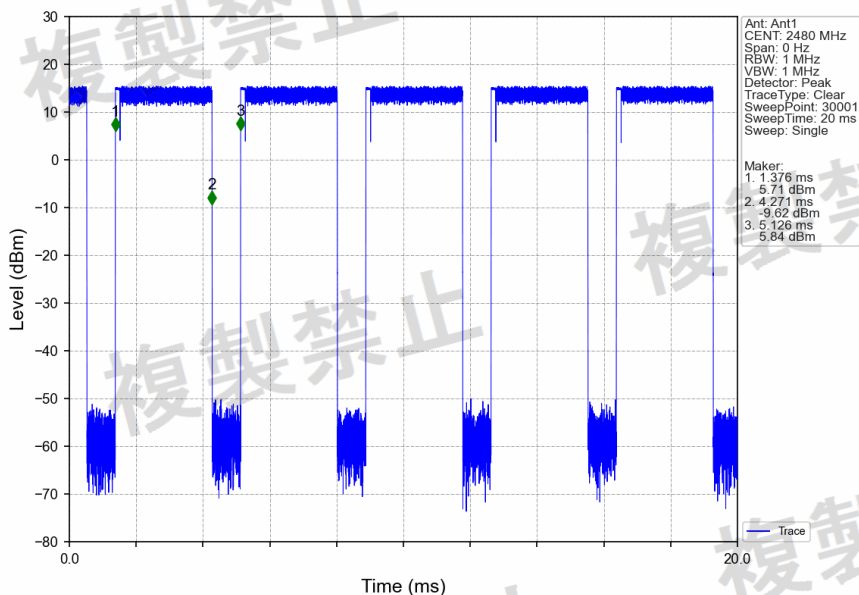
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8DPSK_3DH3_2480MHz_Ant1_NTHV



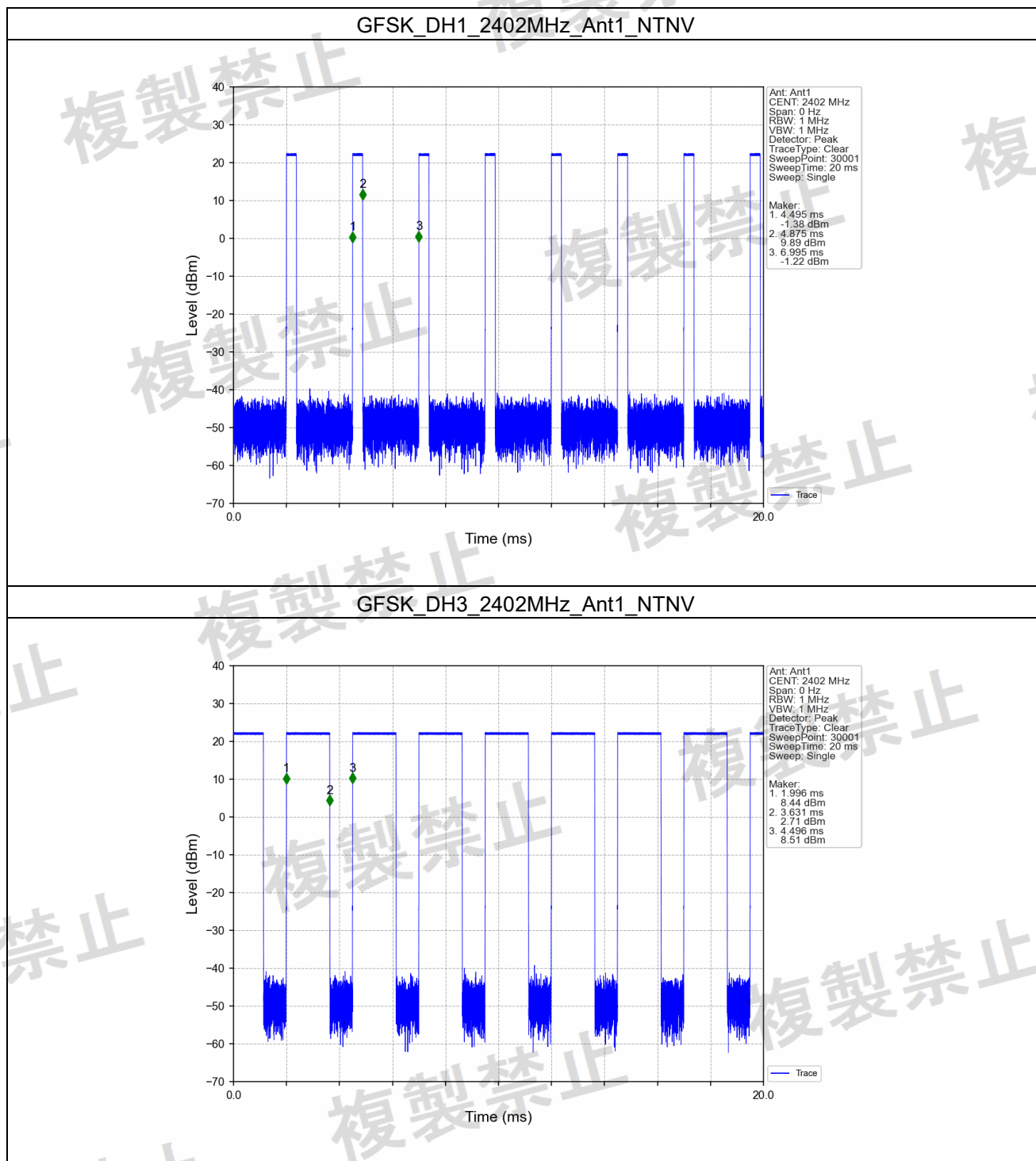
8DPSK_3DH5_2480MHz_Ant1_NTHV



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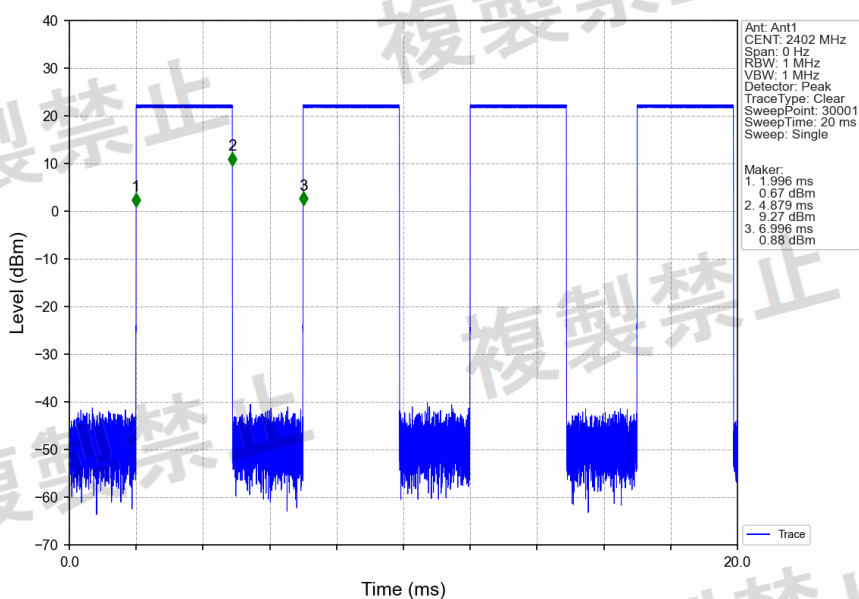
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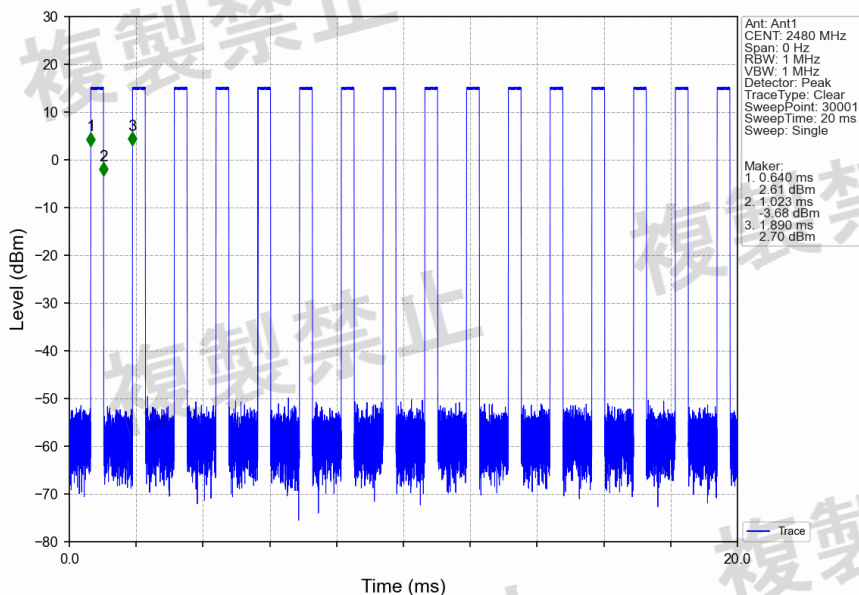
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GFSK_DH5_2402MHz_Ant1_NTNV



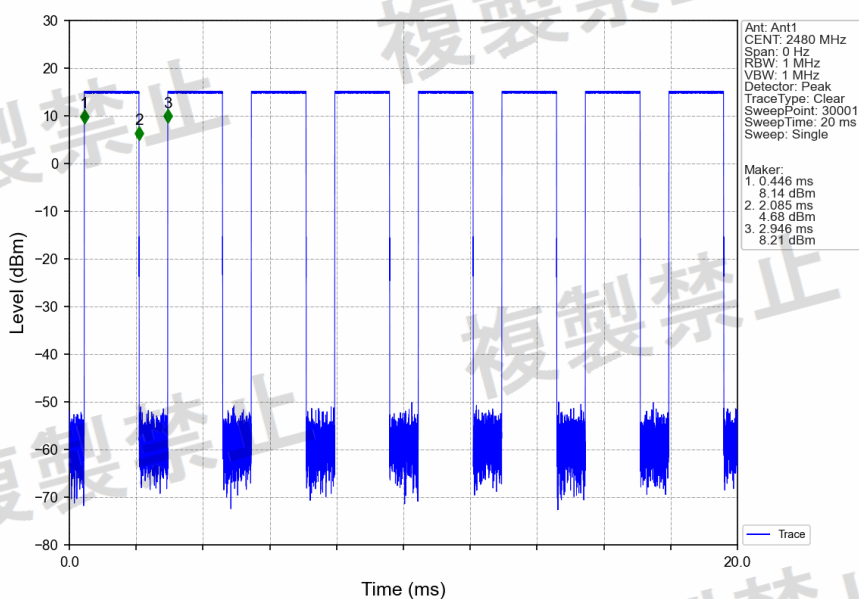
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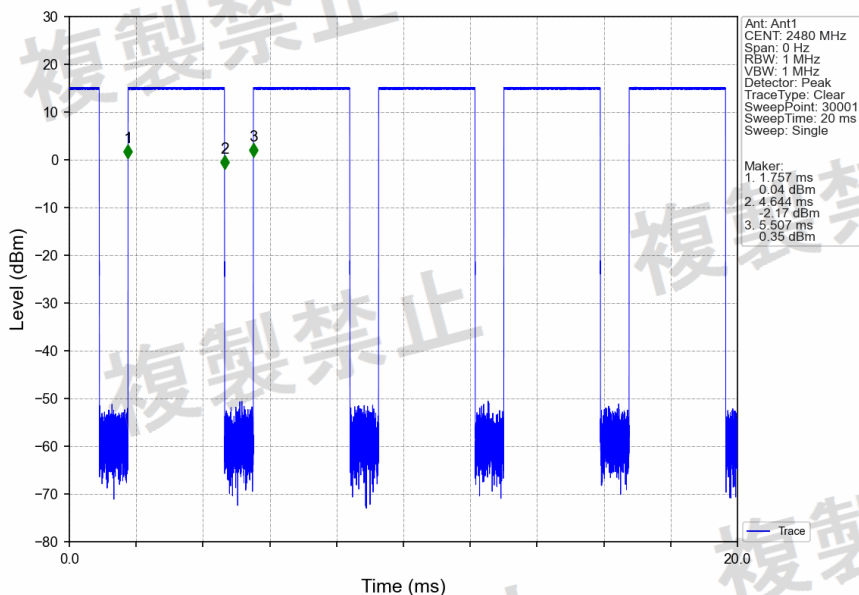
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GFSK_DH3_2480MHz_Ant1_NTNV



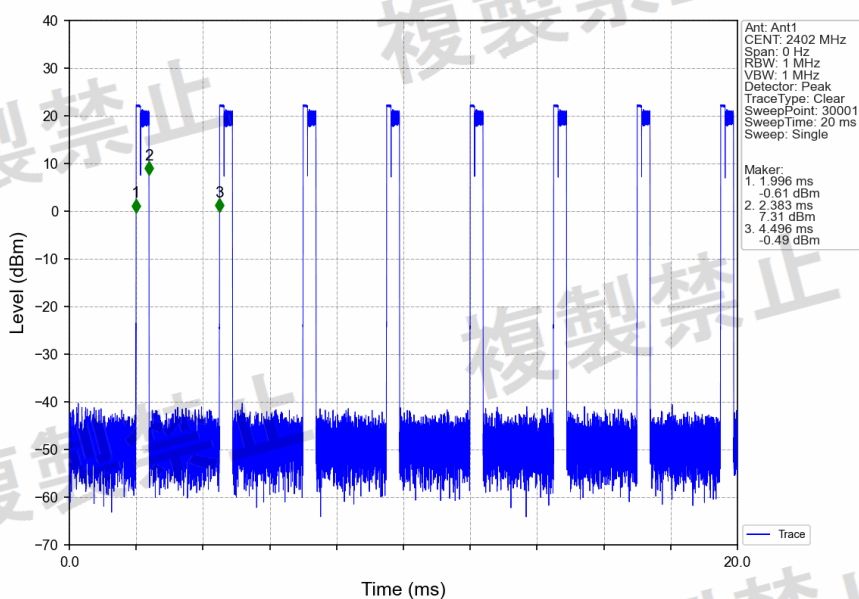
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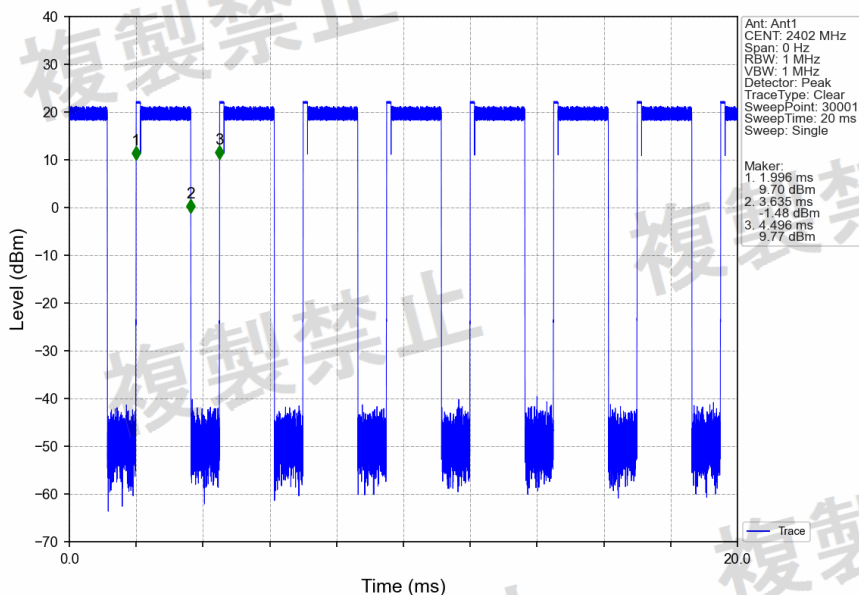
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTNV



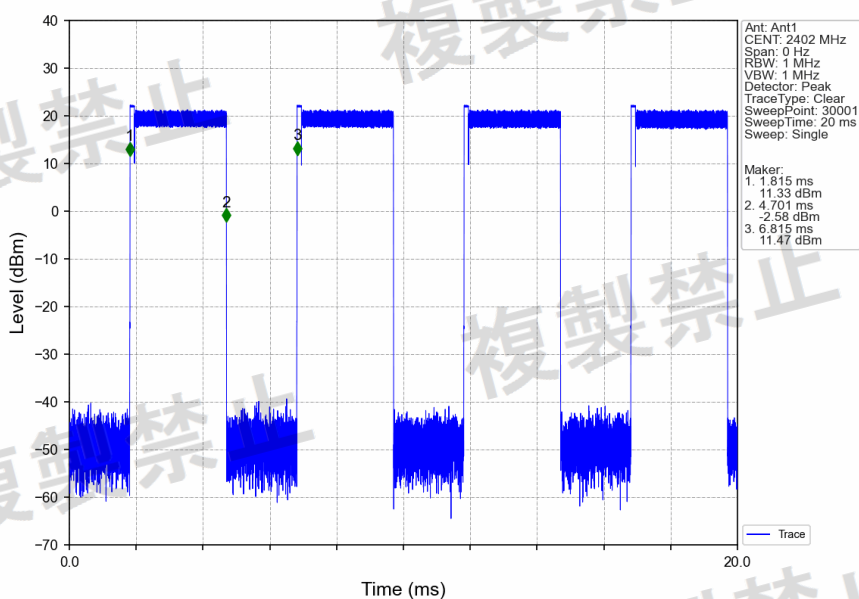
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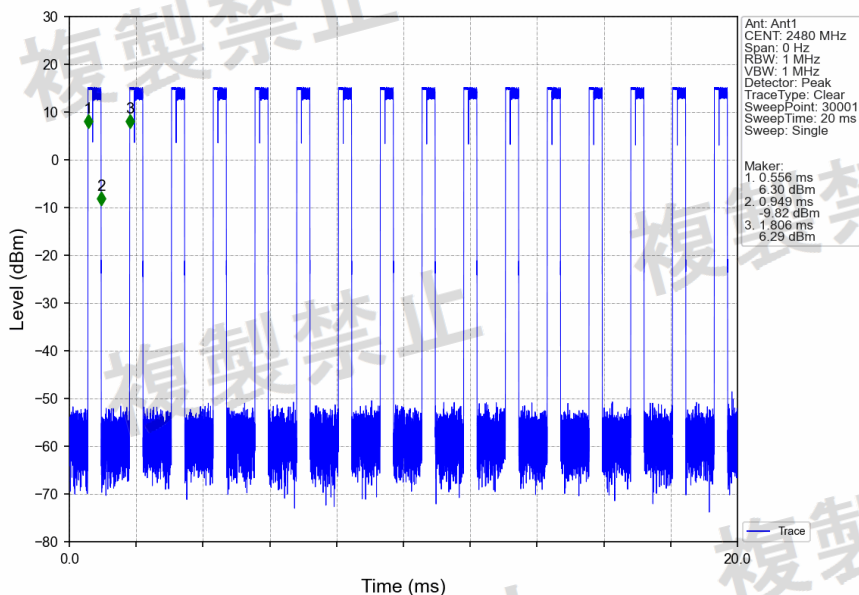
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



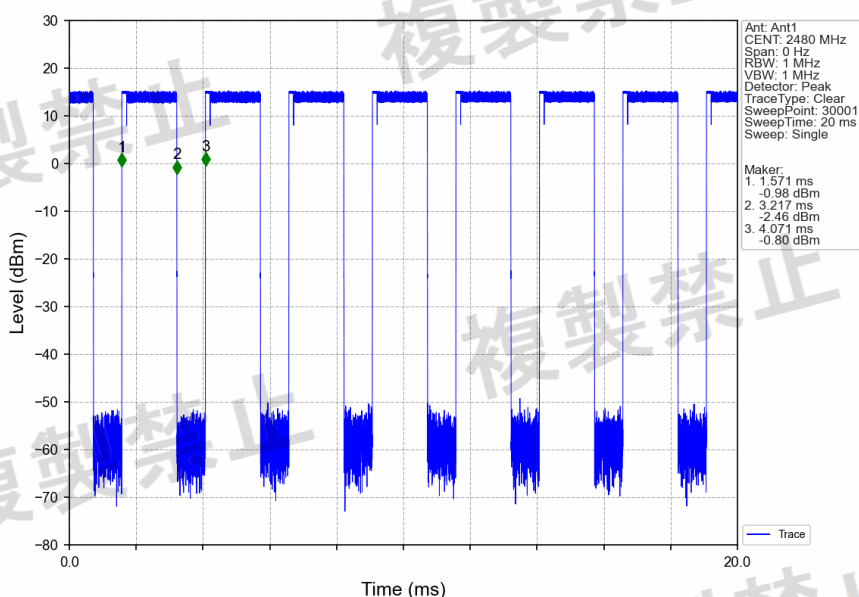
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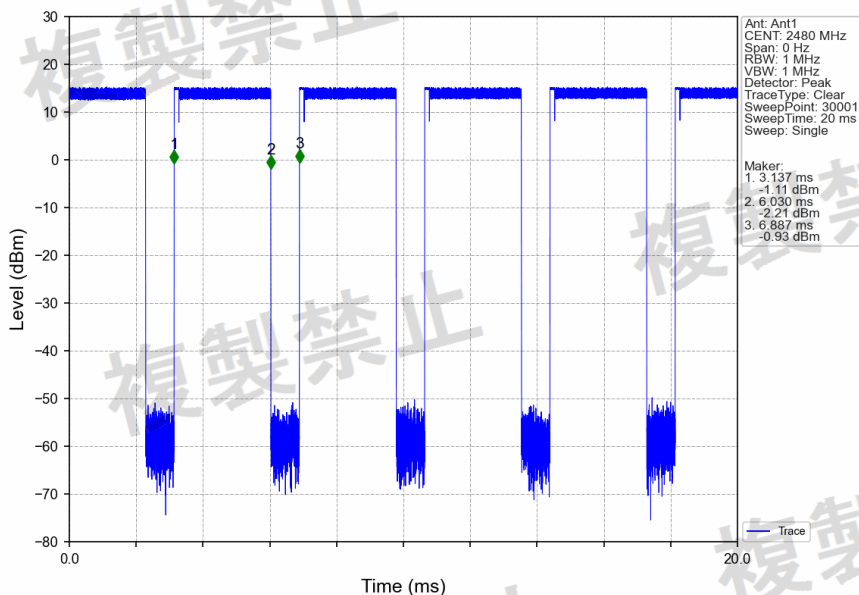
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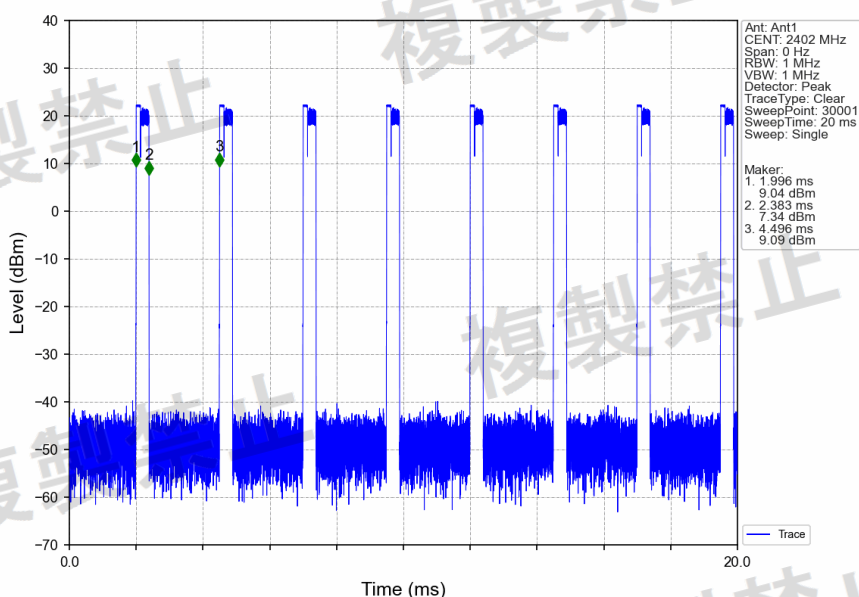
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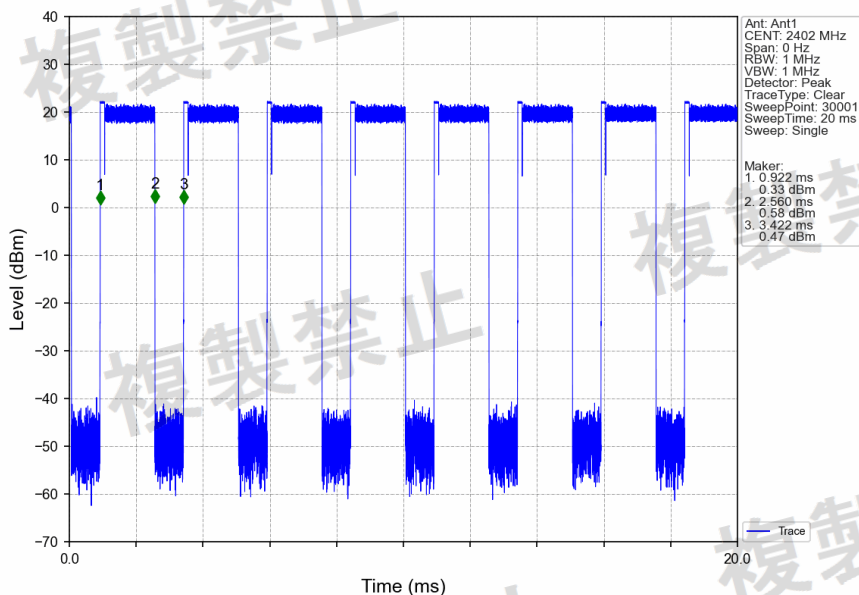
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8DPSK_3DH1_2402MHz_Ant1_NTNV



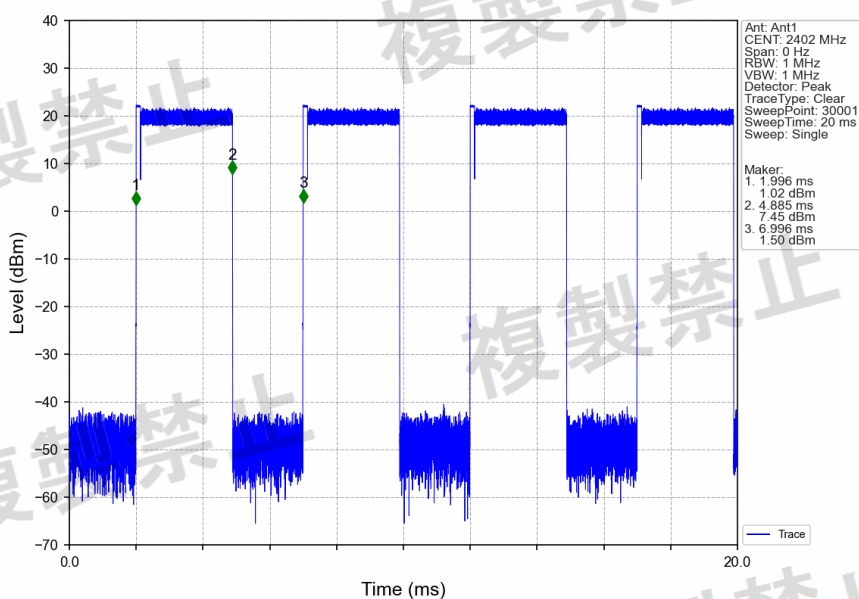
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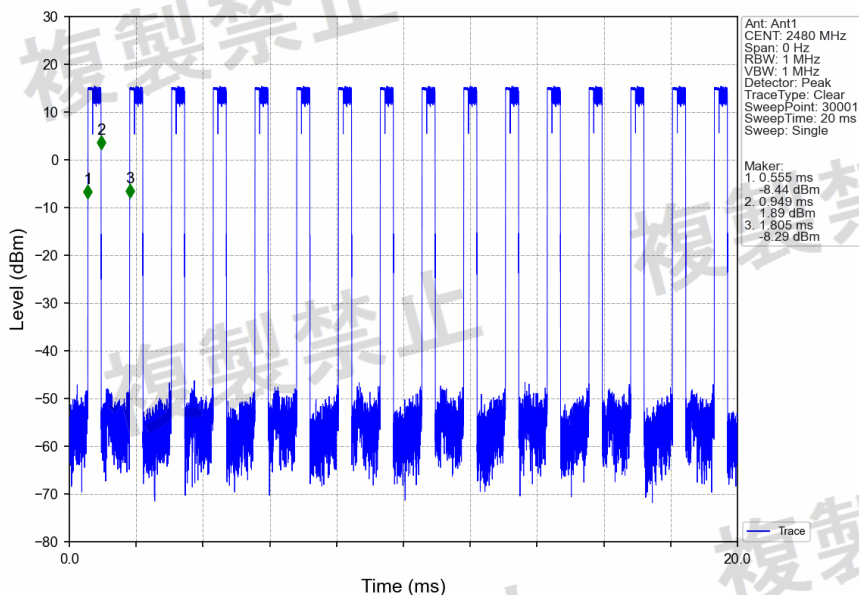
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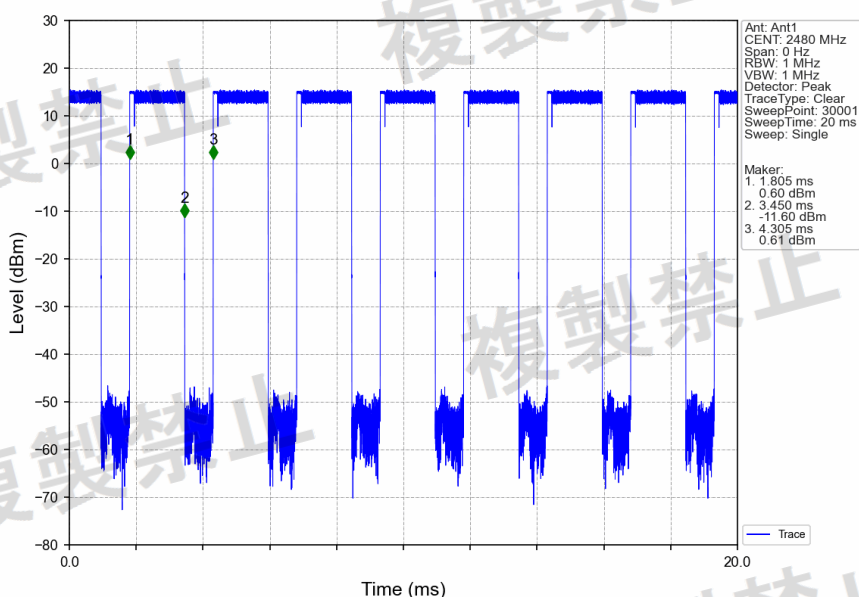
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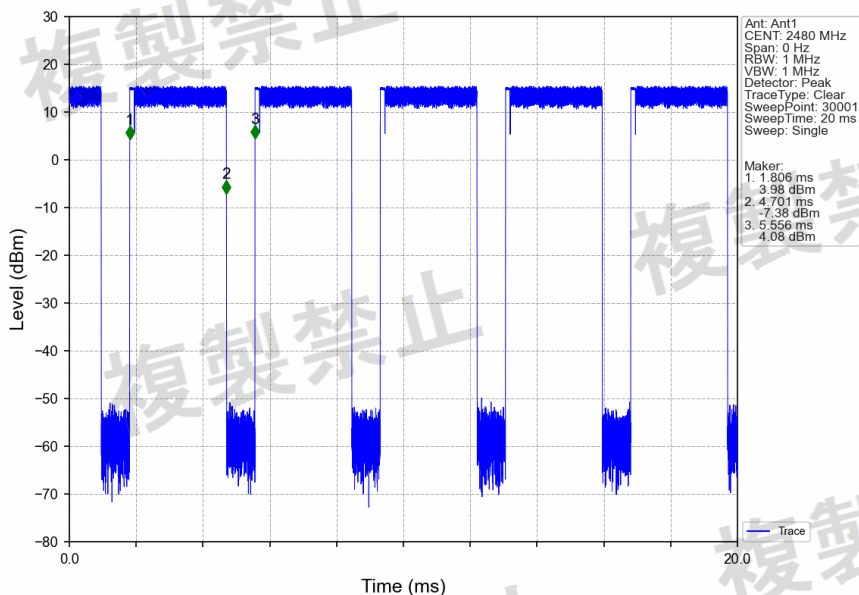
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8DPSK_3DH3_2480MHz_Ant1_NTNV



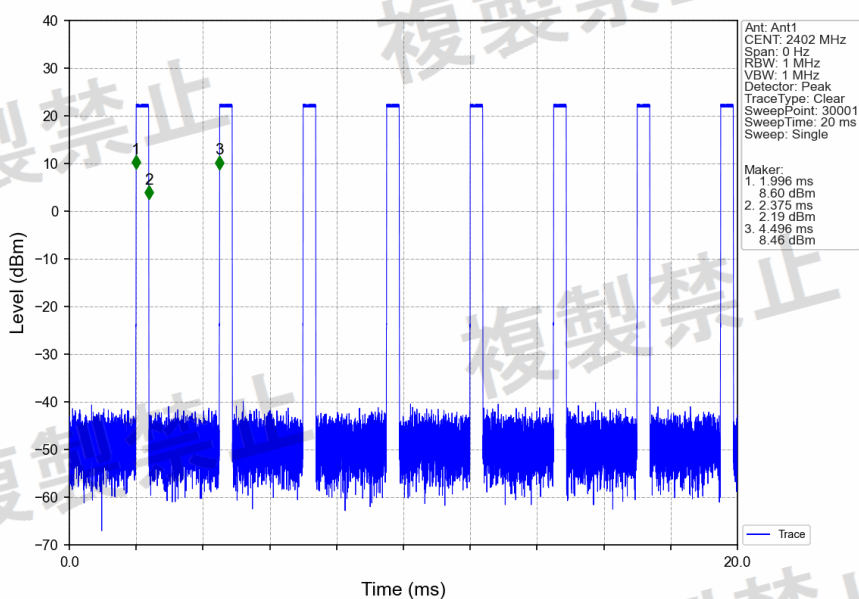
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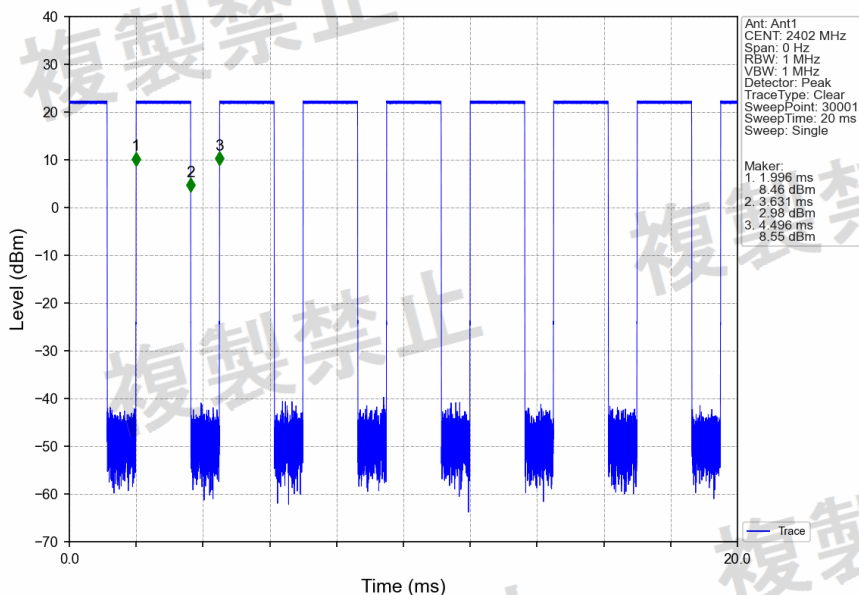
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GFSK_DH1_2402MHz_Ant1_NTLV



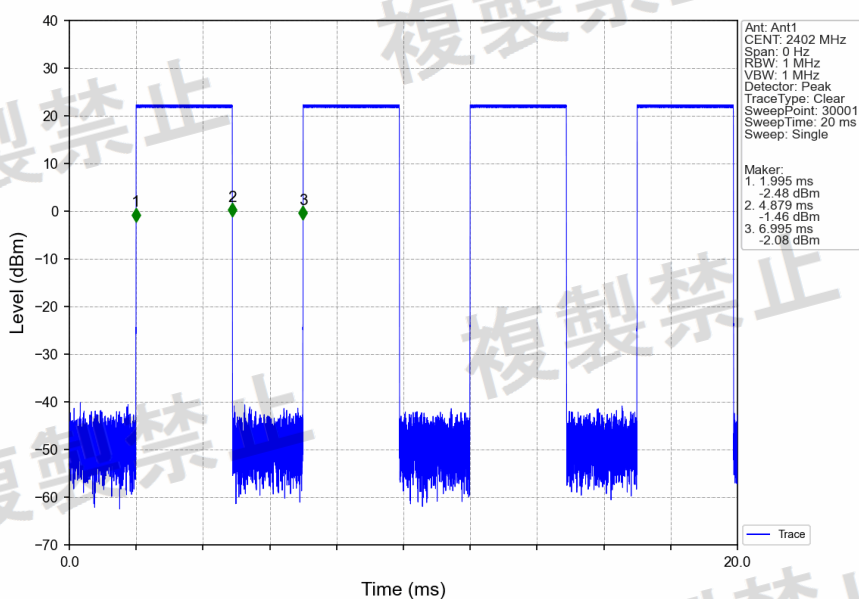
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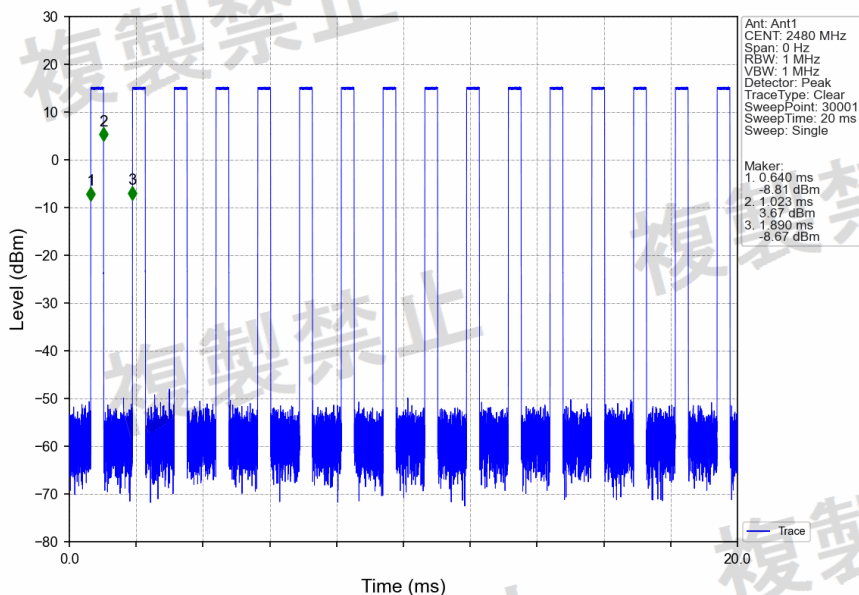
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GFSK_DH5_2402MHz_Ant1_NTLV



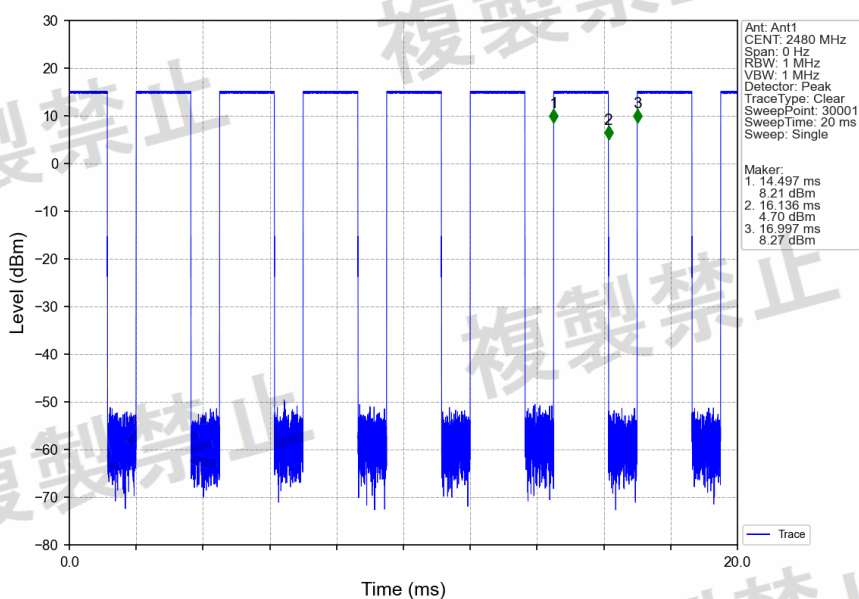
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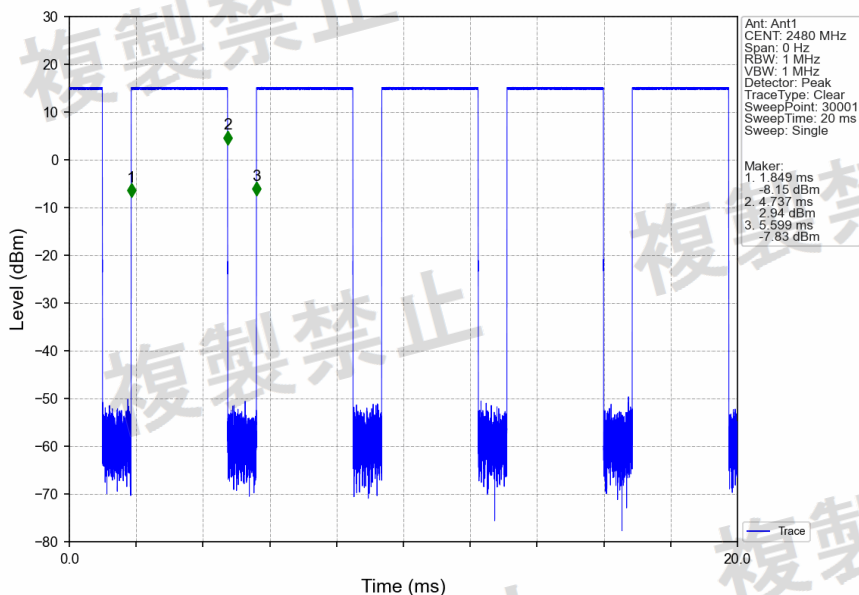
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GFSK_DH3_2480MHz_Ant1_NTLV



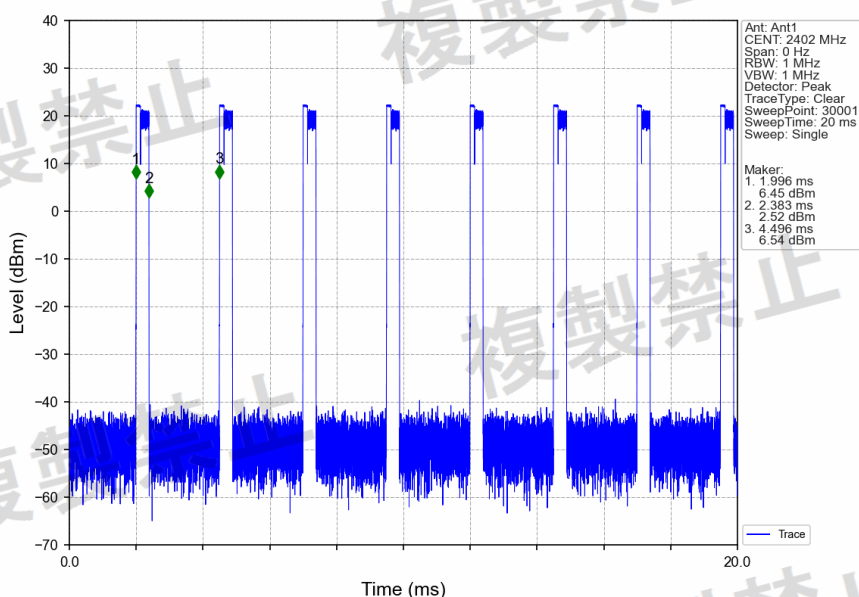
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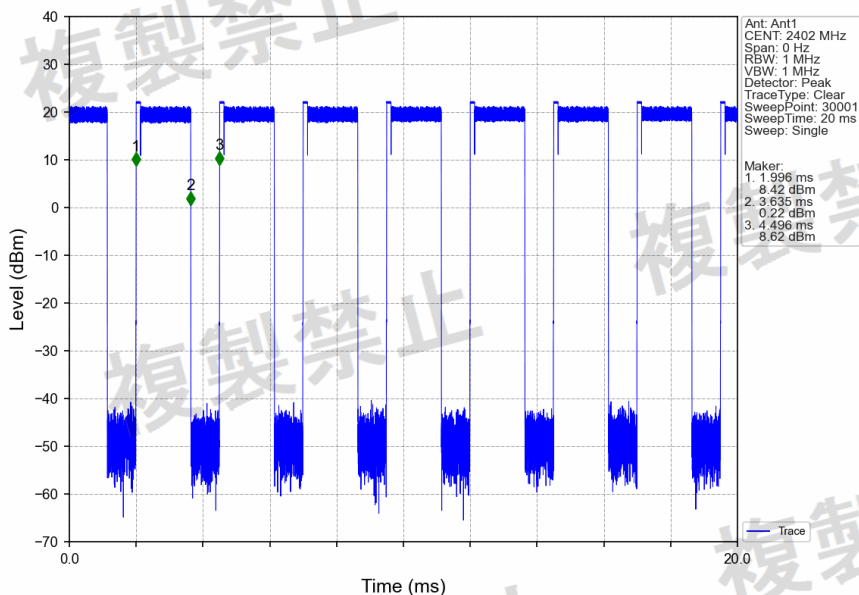
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTLV



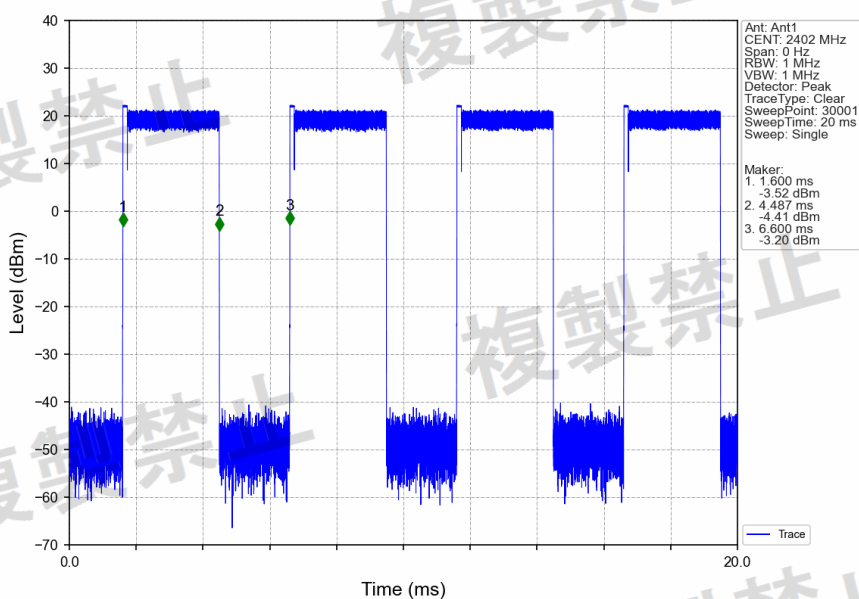
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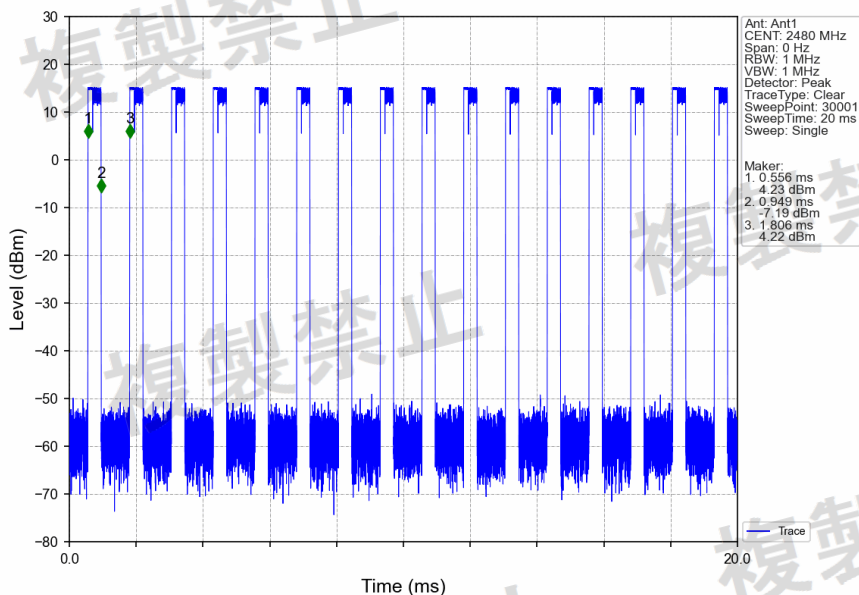
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



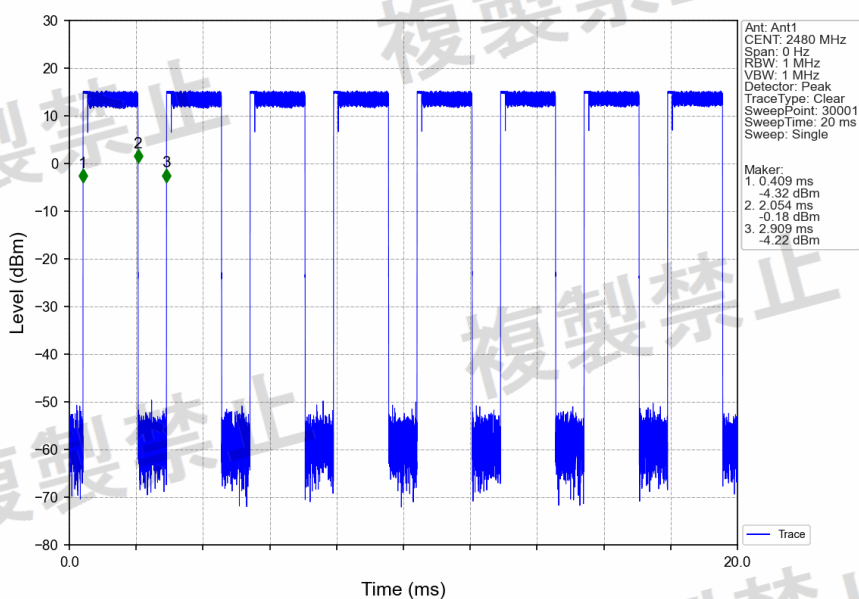
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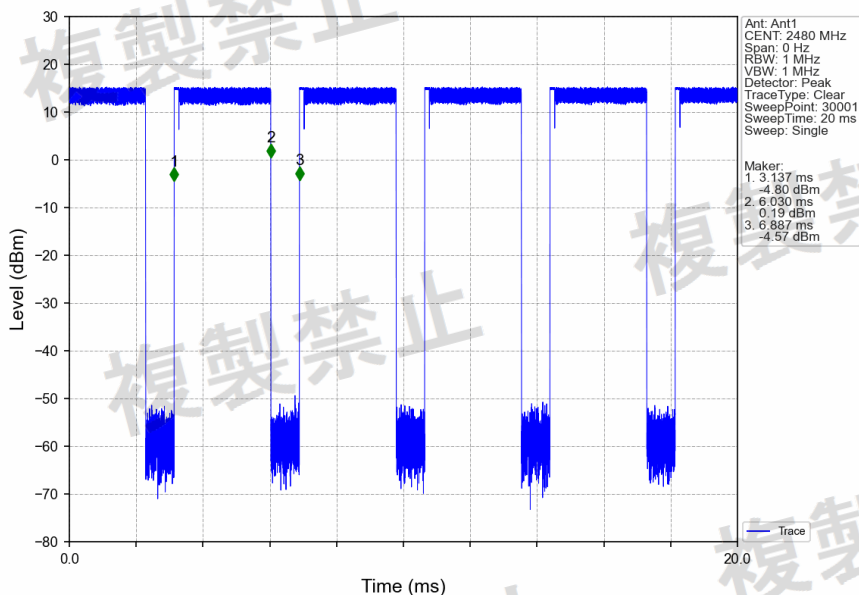
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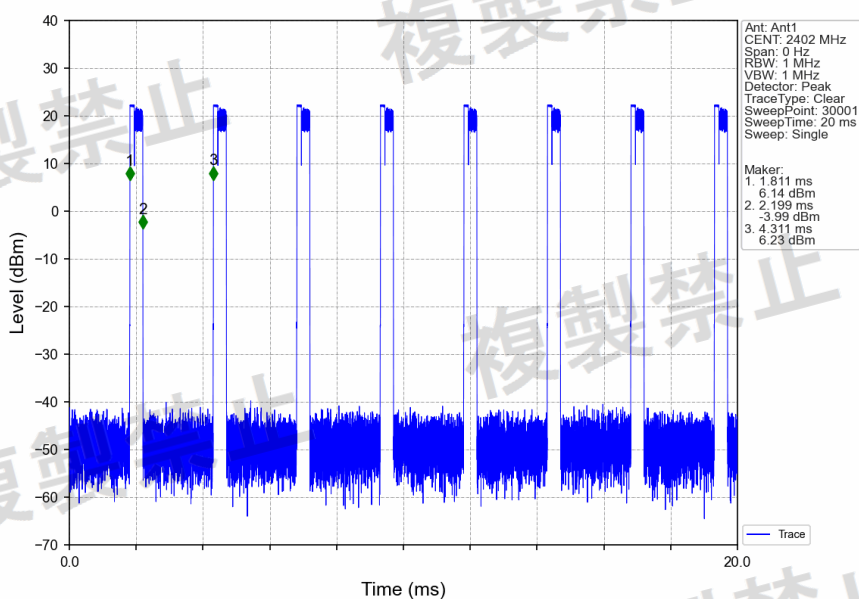
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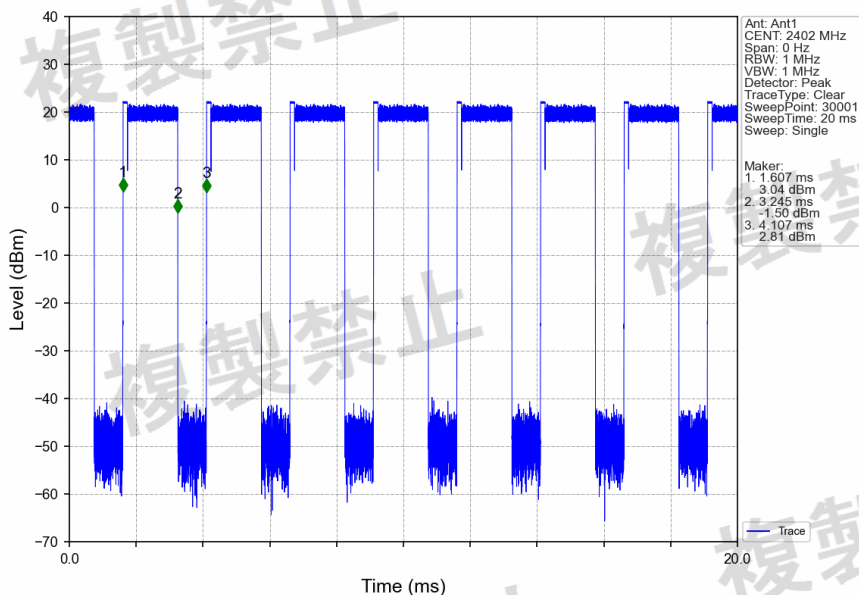
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8DPSK_3DH1_2402MHz_Ant1_NTLV



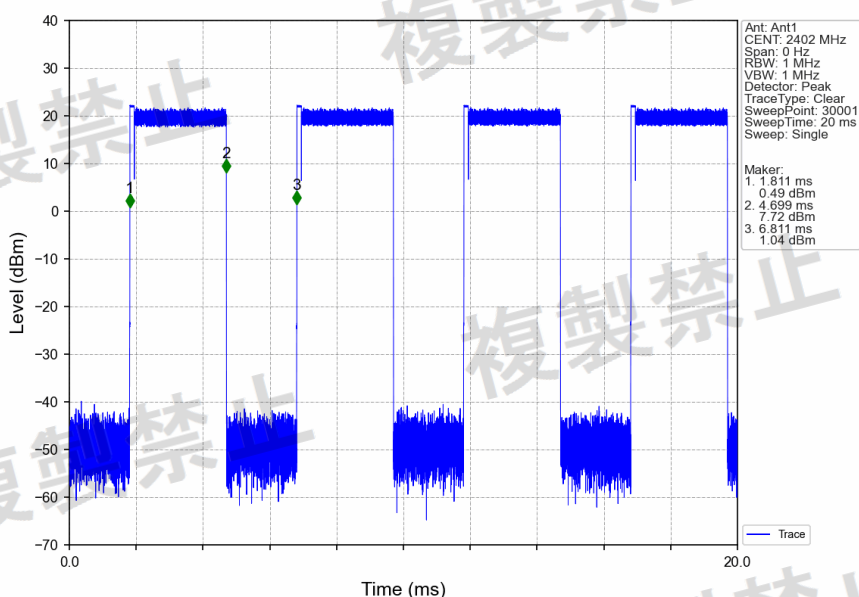
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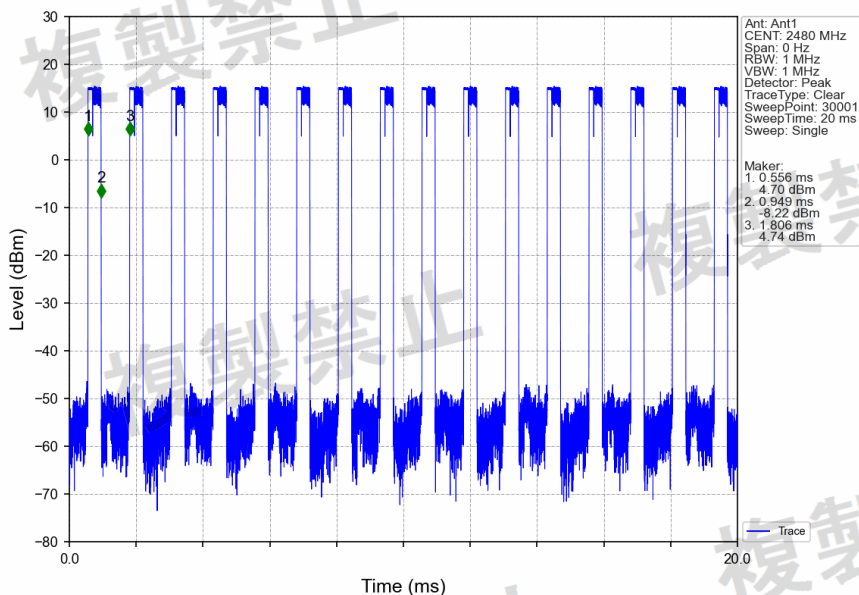
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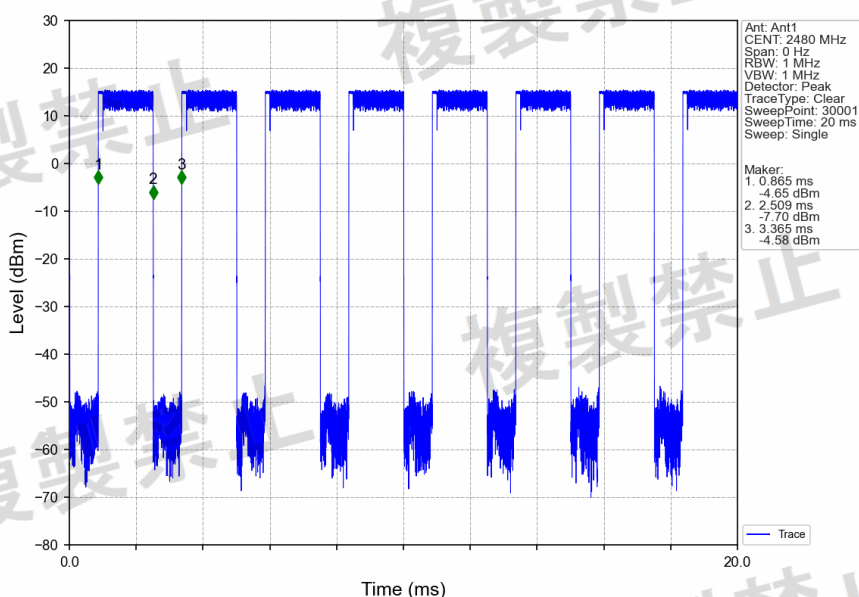
8DPSK_3DH1_2480MHz_Ant1_NTLV



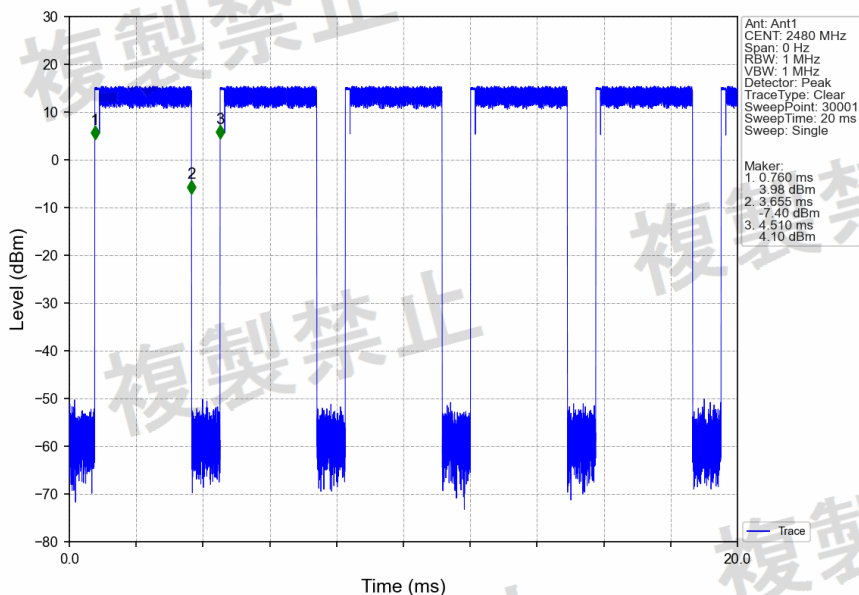
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8DPSK_3DH3_2480MHz_Ant1_NTLV



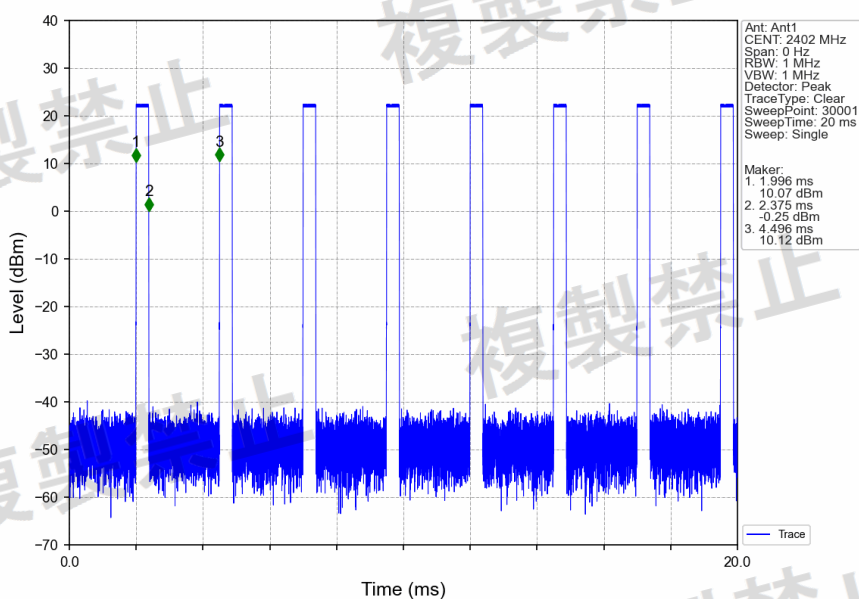
8DPSK_3DH5_2480MHz_Ant1_NTLV



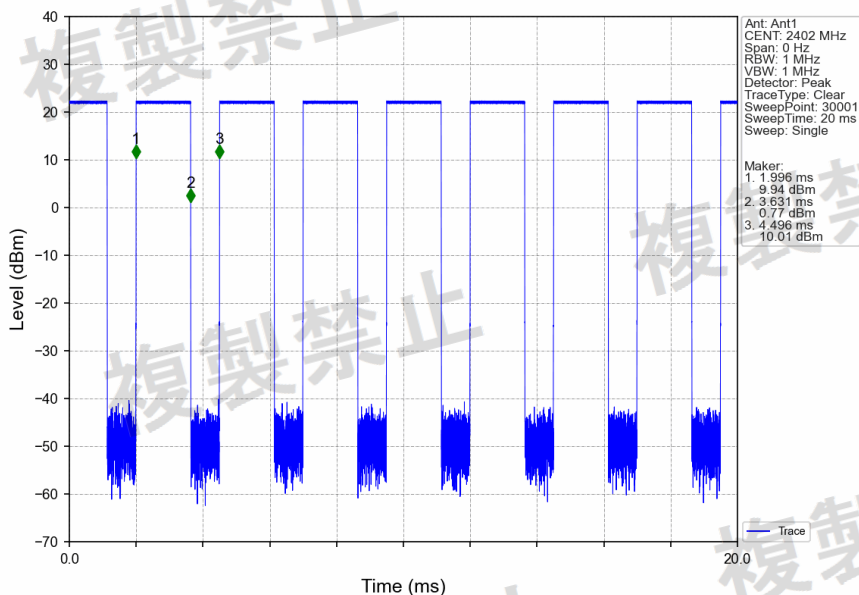
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GFSK_DH1_2402MHz_Ant1_NTHV



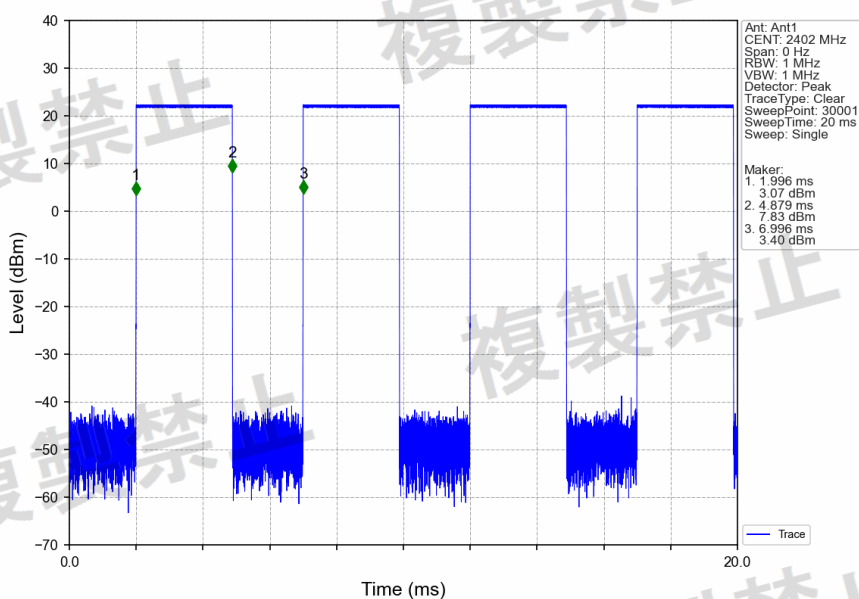
GFSK_DH3_2402MHz_Ant1_NTHV



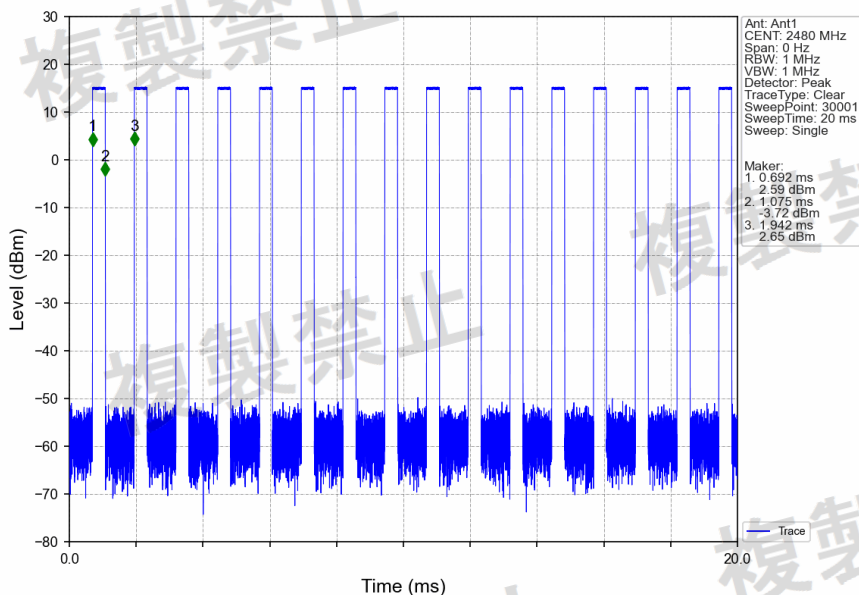
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GFSK_DH5_2402MHz_Ant1_NTHV



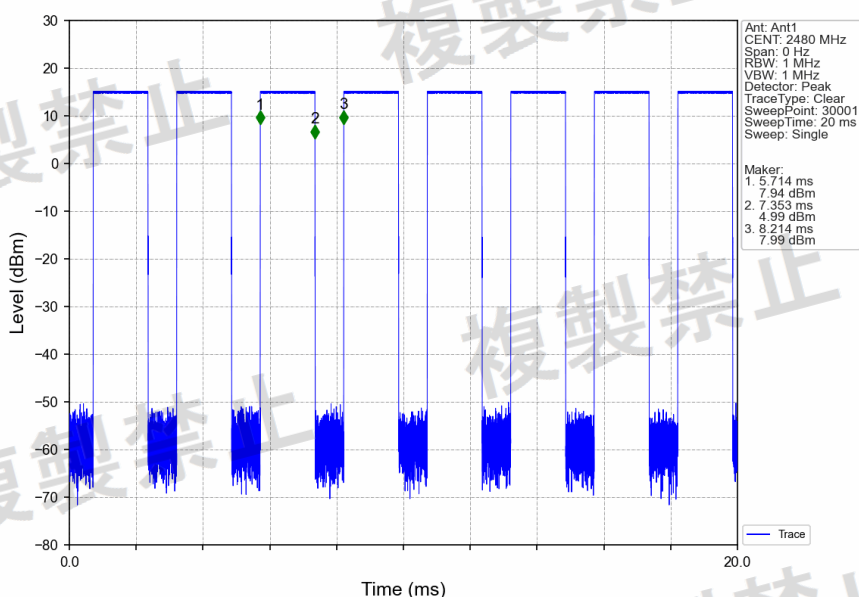
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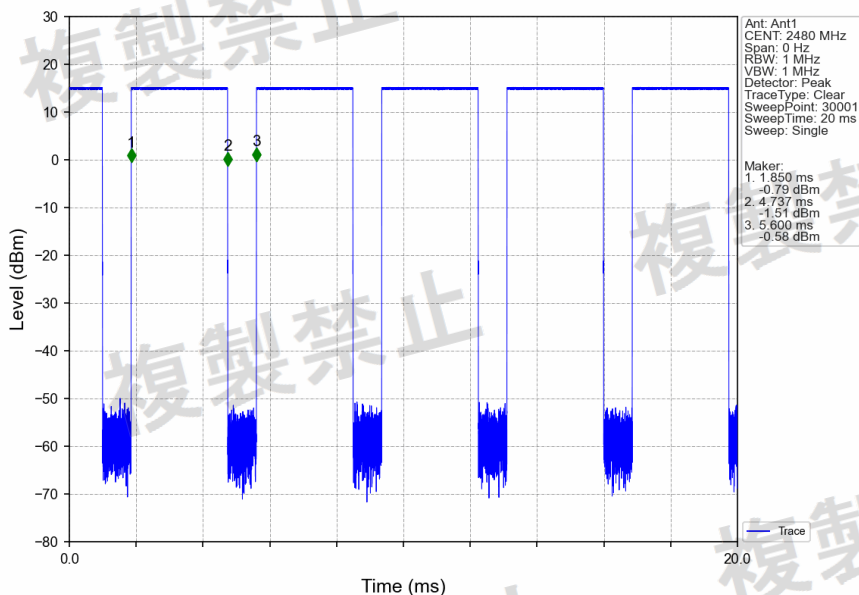
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GFSK_DH3_2480MHz_Ant1_NTHV



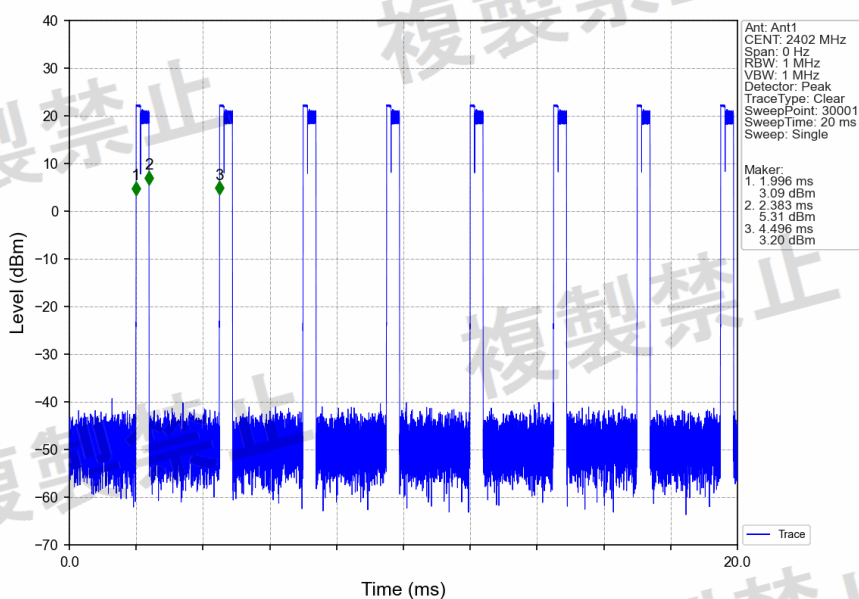
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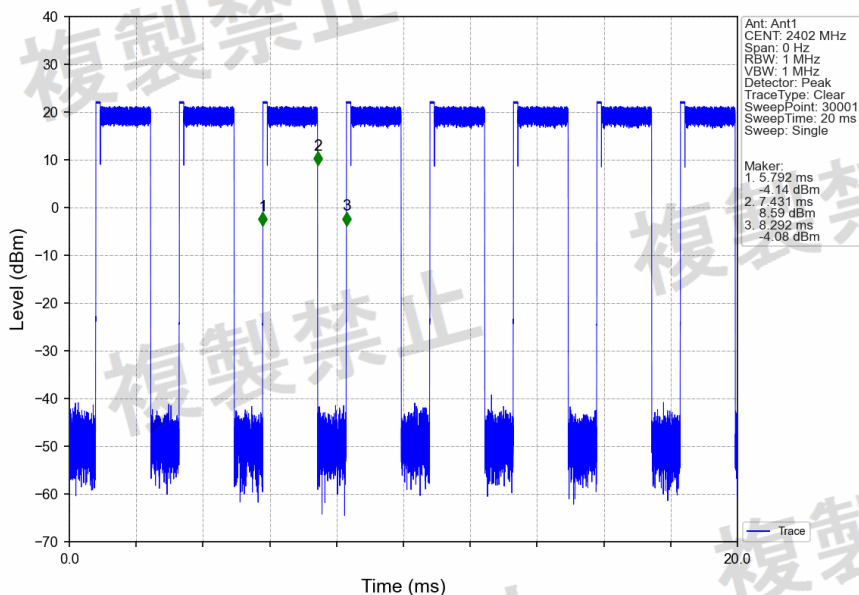
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Pi/4DQPSK_2DH1_2402MHz_Ant1_NTHV



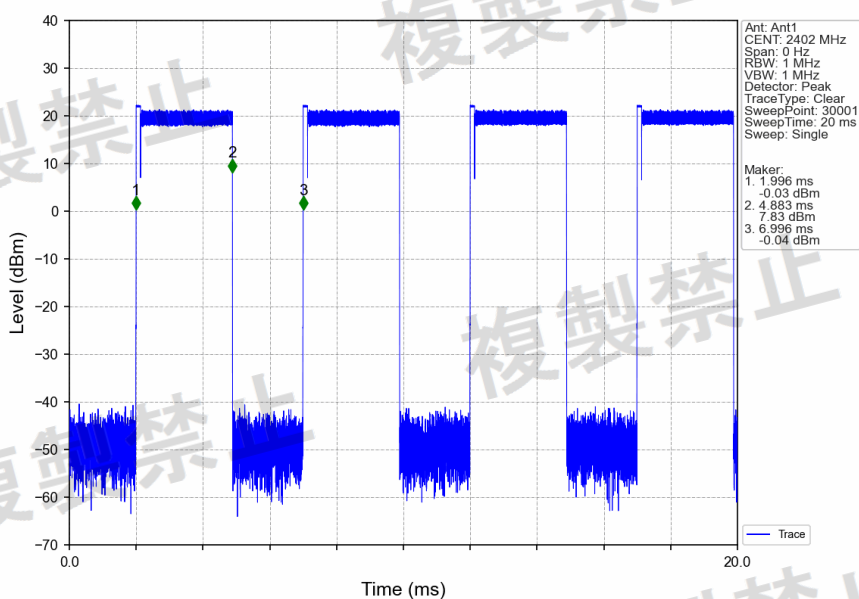
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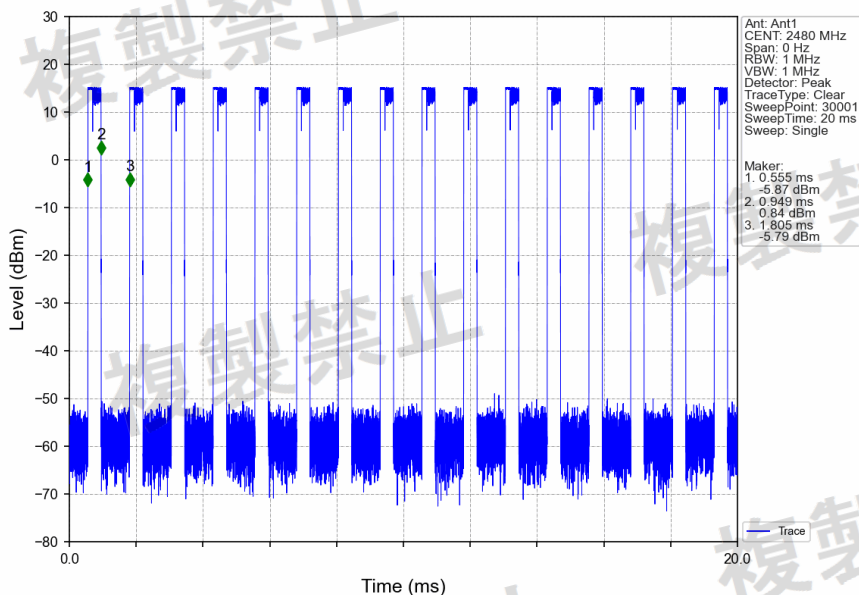
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



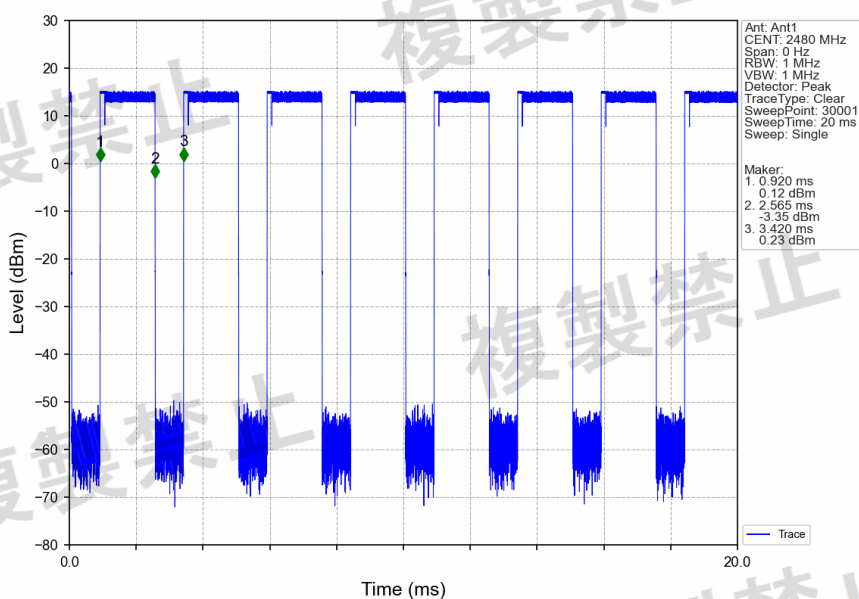
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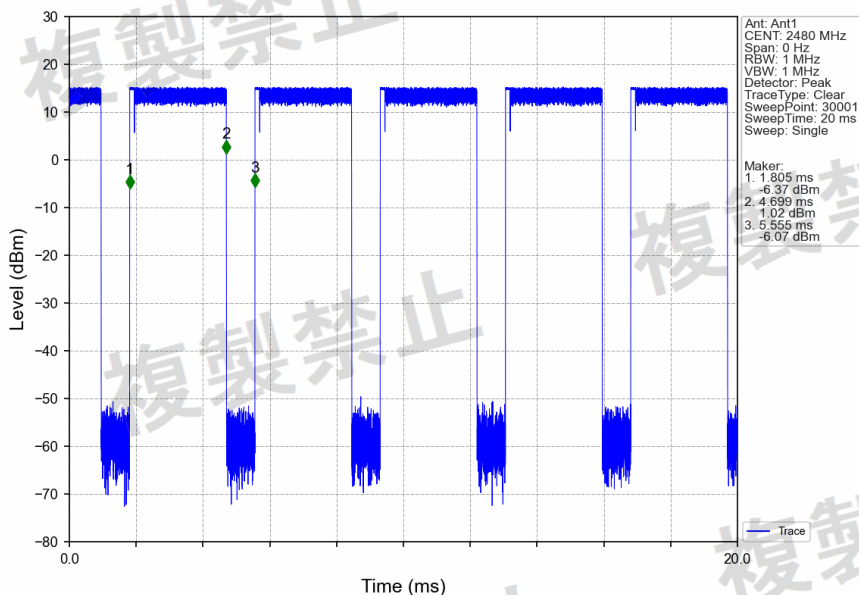
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Pi/4DQPSK_2DH3_2480MHz_Ant1_NTHV



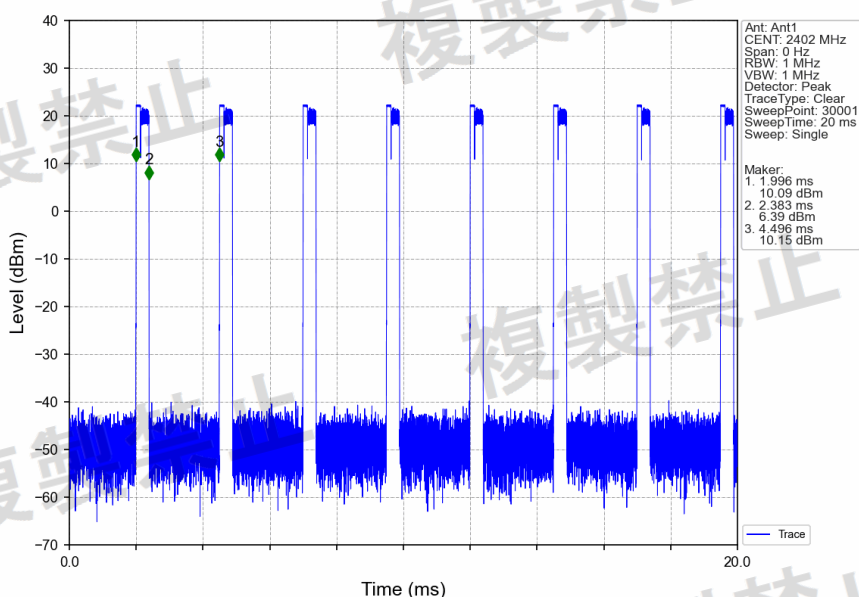
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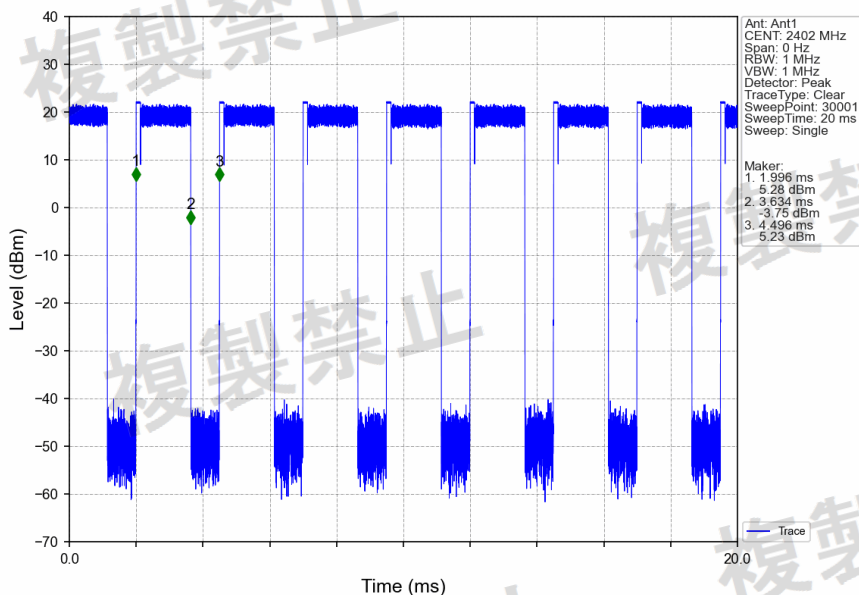
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8DPSK_3DH1_2402MHz_Ant1_NTHV



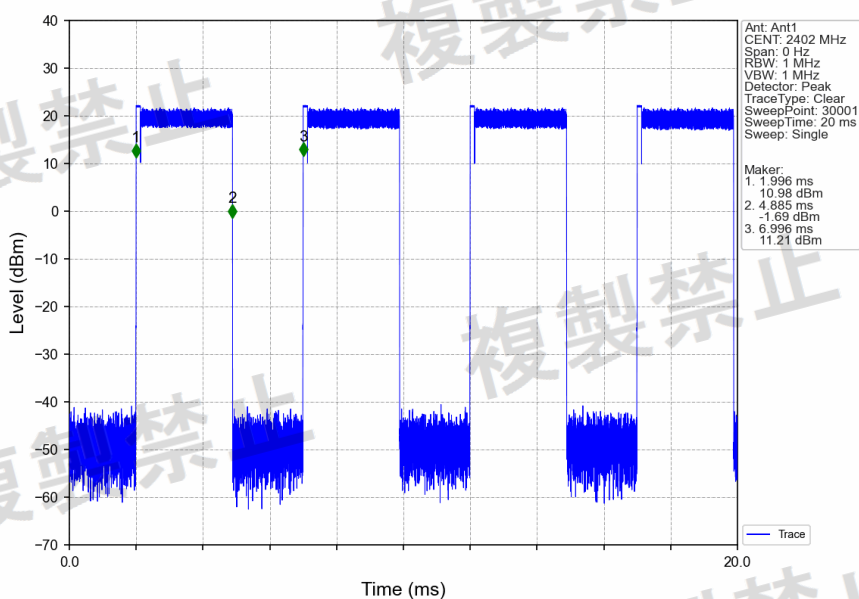
8DPSK_3DH3_2402MHz_Ant1_NTHV



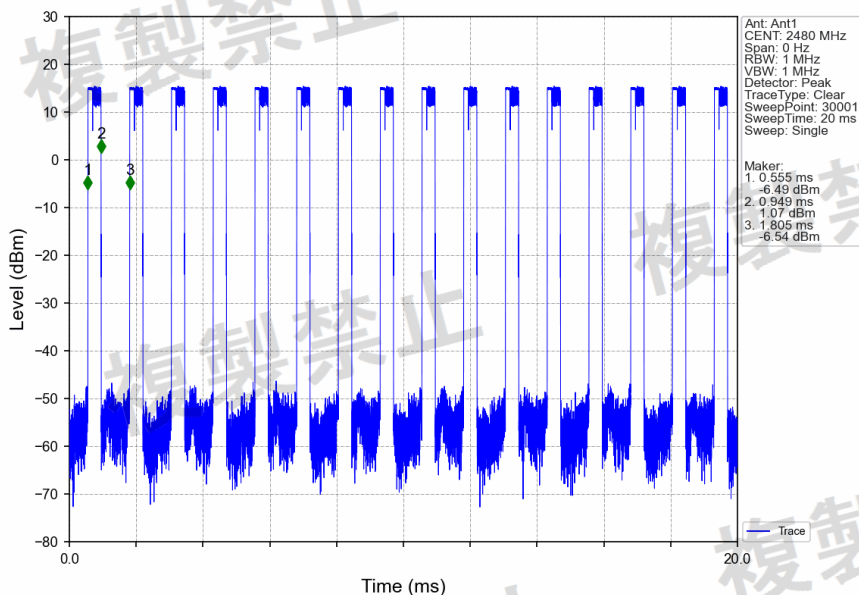
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8DPSK_3DH5_2402MHz_Ant1_NTHV



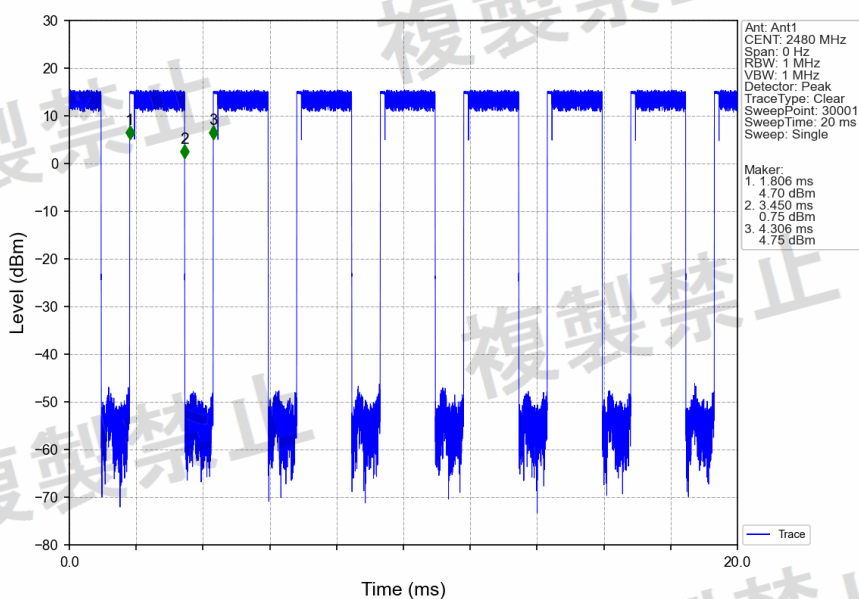
8DPSK_3DH1_2480MHz_Ant1_NTHV



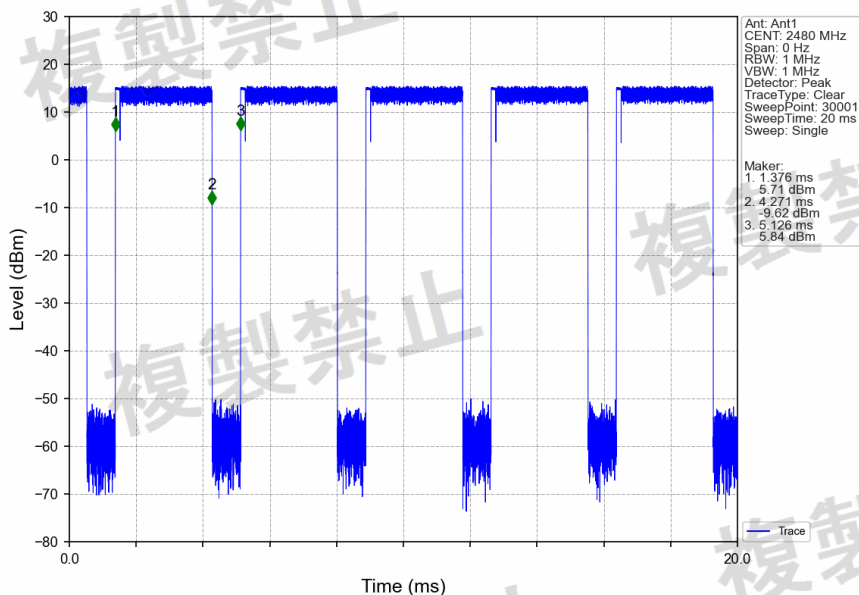
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8DPSK_3DH3_2480MHz_Ant1_NTHV



8DPSK_3DH5_2480MHz_Ant1_NTHV



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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	2377.5	-56.58	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.30	0.148	/	/	25	Pass
				2483.5	2496.5	2493.029	-57.44	0.002	/	/	25	Pass
				2496.5	12500	5092	-54.28	0.004	/	/	2.5	Pass
		2480	1	30	2387	2386	-56.00	0.003	/	/	2.5	Pass
				2387	2400	2396.62	-57.46	0.002	/	/	25	Pass
				2483.5	2496.5	2483.864	-52.85	0.005	/	/	25	Pass
				2496.5	12500	3921	-55.25	0.003	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2289.5	-56.04	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-37.74	0.168	/	/	25	Pass
				2483.5	2496.5	2490.637	-57.76	0.002	/	/	25	Pass
				2496.5	12500	3785	-55.06	0.003	/	/	2.5	Pass
		2480	1	30	2387	2377.5	-56.20	0.002	/	/	2.5	Pass
				2387	2400	2399.389	-57.45	0.002	/	/	25	Pass
				2483.5	2496.5	2483.591	-52.36	0.006	/	/	25	Pass
				2496.5	12500	4931	-55.09	0.003	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2351	-56.12	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.41	0.144	/	/	25	Pass
				2483.5	2496.5	2483.565	-57.87	0.002	/	/	25	Pass
				2496.5	12500	3832	-55.58	0.003	/	/	2.5	Pass
		2480	1	30	2387	2356.5	-55.65	0.003	/	/	2.5	Pass
				2387	2400	2399.909	-56.86	0.002	/	/	25	Pass
				2483.5	2496.5	2483.552	-53.15	0.005	/	/	25	Pass
				2496.5	12500	4449	-56.04	0.002	/	/	2.5	Pass

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6.1.2 TxSe_NTLV

NTLV												
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	2319	-56.72	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.30	0.148	/	/	25	Pass
				2483.5	2496.5	2496.435	-58.32	0.001	/	/	25	Pass
				2496.5	12500	3800	-55.16	0.003	/	/	2.5	Pass
		2480	1	30	2387	2352	-55.92	0.003	/	/	2.5	Pass
				2387	2400	2399.636	-57.41	0.002	/	/	25	Pass
				2483.5	2496.5	2483.591	-52.60	0.005	/	/	25	Pass
				2496.5	12500	5092.5	-54.11	0.004	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2359	-56.33	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.49	0.142	/	/	25	Pass
				2483.5	2496.5	2485.788	-57.49	0.002	/	/	25	Pass
				2496.5	12500	3789.5	-55.59	0.003	/	/	2.5	Pass
		2480	1	30	2387	2330.5	-56.55	0.002	/	/	2.5	Pass
				2387	2400	2399.844	-57.45	0.002	/	/	25	Pass
				2483.5	2496.5	2483.526	-52.85	0.005	/	/	25	Pass
				2496.5	12500	3782	-54.93	0.003	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2307	-55.76	0.003	/	/	2.5	Pass
				2387	2400	2399.987	-38.54	0.140	/	/	25	Pass
				2483.5	2496.5	2486.607	-57.39	0.002	/	/	25	Pass
				2496.5	12500	5094	-54.80	0.003	/	/	2.5	Pass
		2480	1	30	2387	2380	-55.55	0.003	/	/	2.5	Pass
				2387	2400	2399.753	-56.32	0.002	/	/	25	Pass
				2483.5	2496.5	2483.799	-52.57	0.006	/	/	25	Pass
				2496.5	12500	3768.5	-54.43	0.004	/	/	2.5	Pass

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6.1.3 TxSe_NTHV

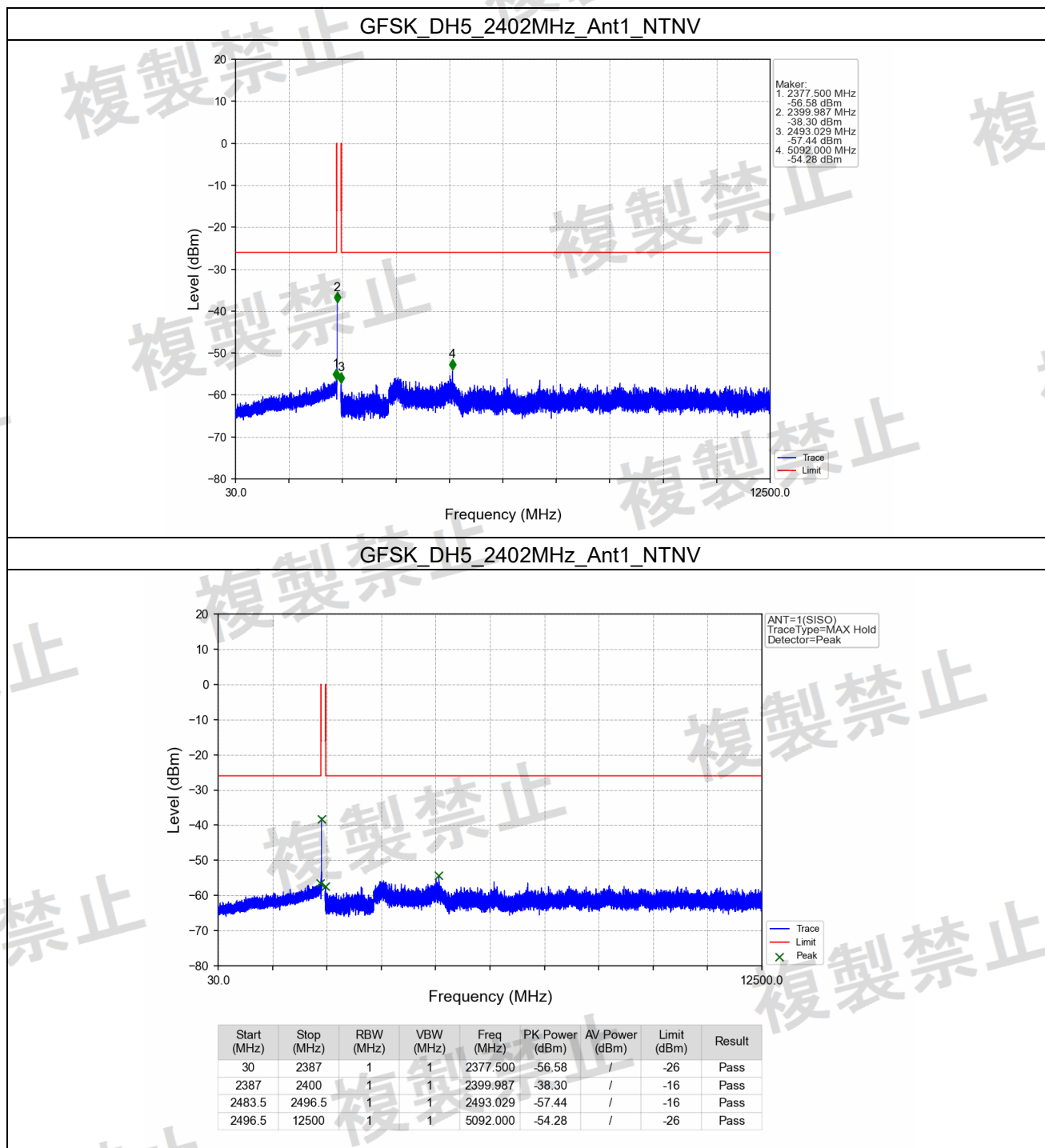
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
GFSK	SISO	2402	1	30	2387	2345	-56.49	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.46	0.143	/	/	25	Pass
				2483.5	2496.5	2493.497	-57.82	0.002	/	/	25	Pass
				2496.5	12500	5087	-55.47	0.003	/	/	2.5	Pass
		2480	1	30	2387	2320	-55.87	0.003	/	/	2.5	Pass
				2387	2400	2399.857	-57.22	0.002	/	/	25	Pass
				2483.5	2496.5	2483.916	-52.23	0.006	/	/	25	Pass
				2496.5	12500	3781	-54.79	0.003	/	/	2.5	Pass
Pi/4DQPSK	SISO	2402	1	30	2387	2363	-55.01	0.003	/	/	2.5	Pass
				2387	2400	2399.974	-38.29	0.148	/	/	25	Pass
				2483.5	2496.5	2483.877	-57.83	0.002	/	/	25	Pass
				2496.5	12500	5739.5	-54.51	0.004	/	/	2.5	Pass
		2480	1	30	2387	2332.5	-56.83	0.002	/	/	2.5	Pass
				2387	2400	2399.909	-57.48	0.002	/	/	25	Pass
				2483.5	2496.5	2483.942	-53.49	0.004	/	/	25	Pass
				2496.5	12500	4301.5	-56.04	0.002	/	/	2.5	Pass
8DPSK	SISO	2402	1	30	2387	2322	-56.46	0.002	/	/	2.5	Pass
				2387	2400	2399.987	-38.26	0.149	/	/	25	Pass
				2483.5	2496.5	2496.487	-58.01	0.002	/	/	25	Pass
				2496.5	12500	8980.5	-55.71	0.003	/	/	2.5	Pass
		2480	1	30	2387	2379	-55.71	0.003	/	/	2.5	Pass
				2387	2400	2399.974	-57.30	0.002	/	/	25	Pass
				2483.5	2496.5	2483.708	-53.33	0.005	/	/	25	Pass
				2496.5	12500	5034.5	-55.53	0.003	/	/	2.5	Pass

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6.2 Test Graph

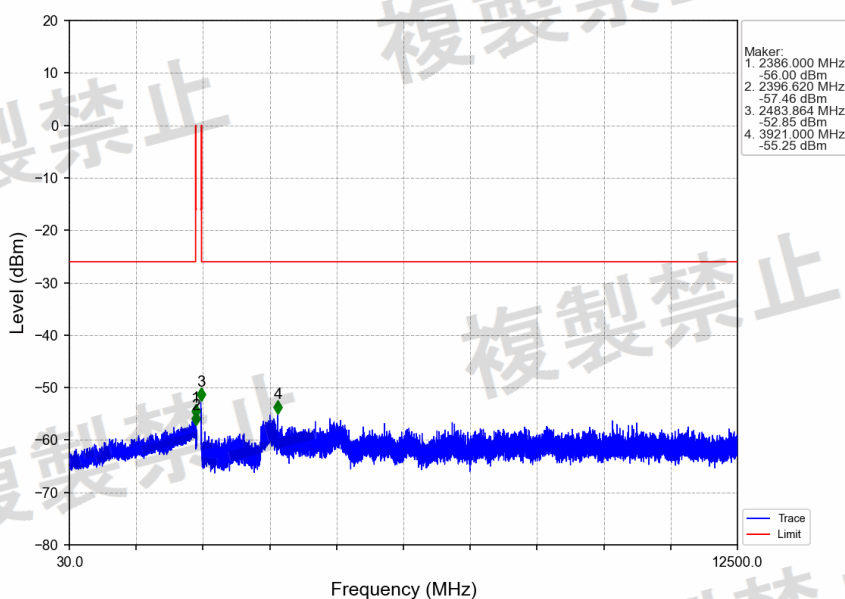
6.2.1 TxSe_NTNV



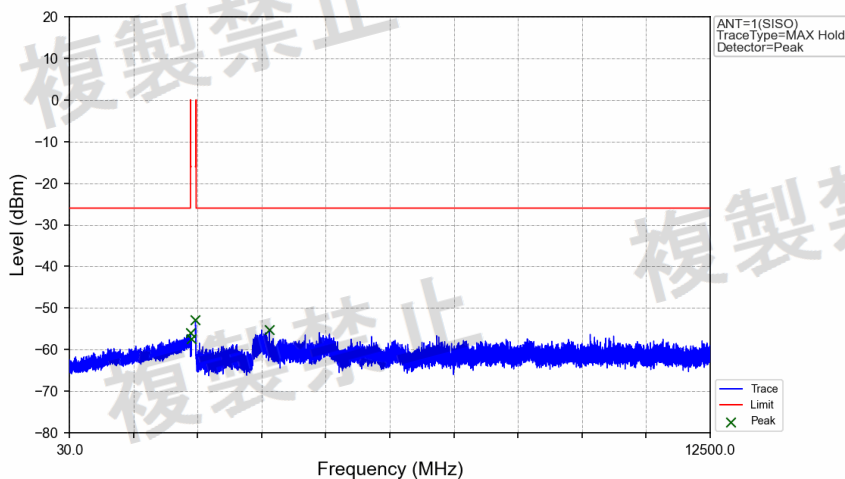
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GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

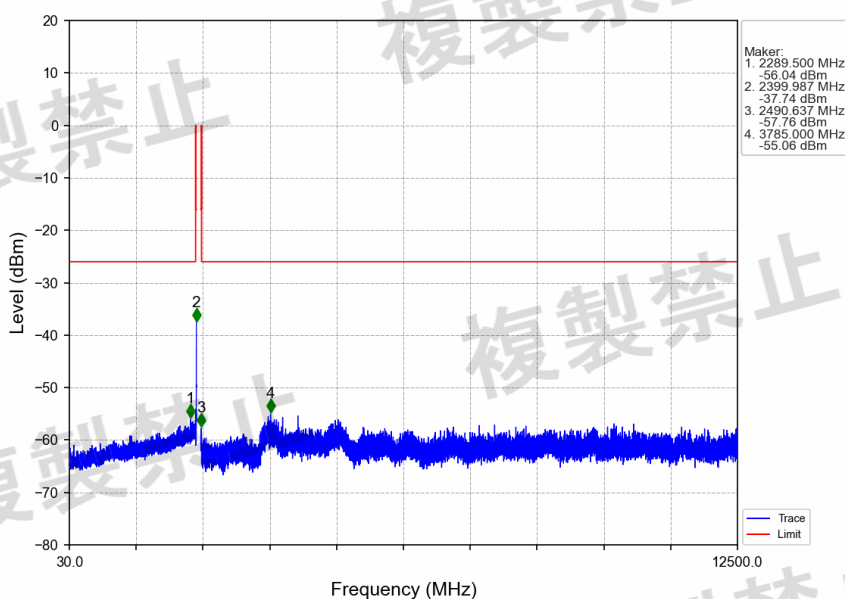


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-56.00	/	-26	Pass
2387	2400	1	1	2396.620	-57.46	/	-16	Pass
2483.5	2496.5	1	1	2483.864	-52.85	/	-16	Pass
2496.5	12500	1	1	3921.000	-55.25	/	-26	Pass

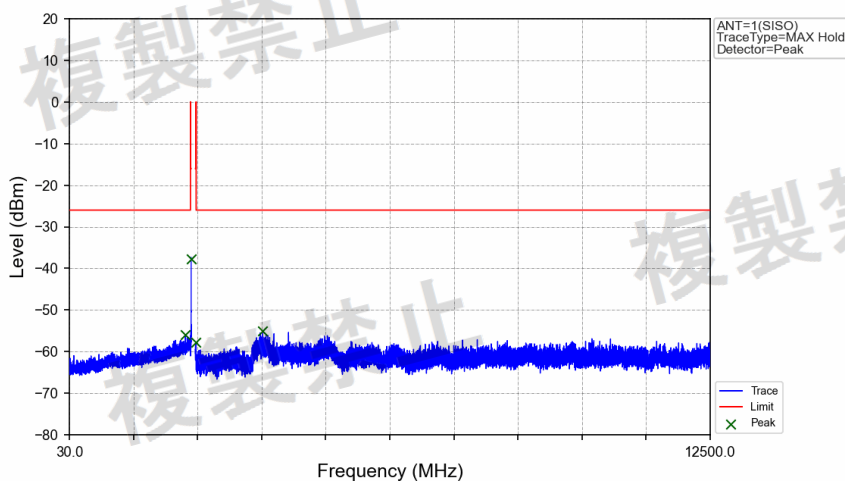
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV

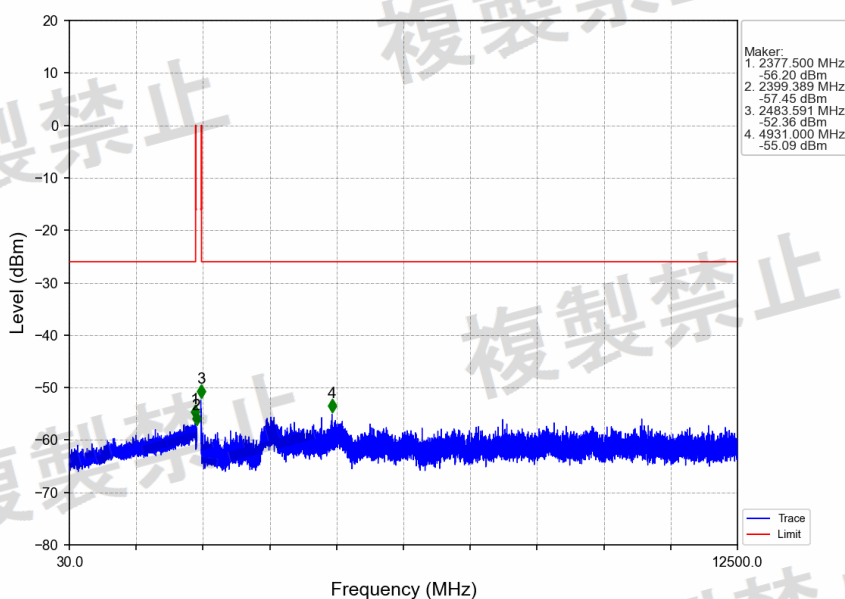


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2289.500	-56.04	/	-26	Pass
2387	2400	1	1	2399.987	-37.74	/	-16	Pass
2483.5	2496.5	1	1	2490.637	-57.76	/	-16	Pass
2496.5	12500	1	1	3785.000	-55.06	/	-26	Pass

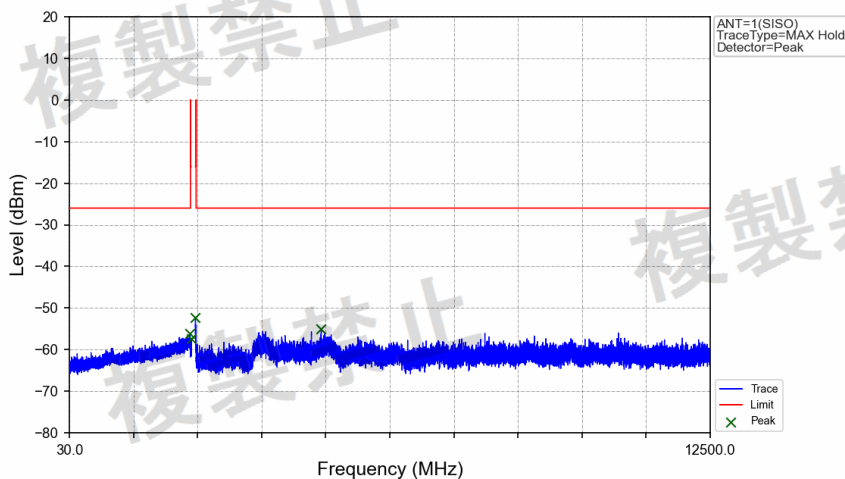
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV

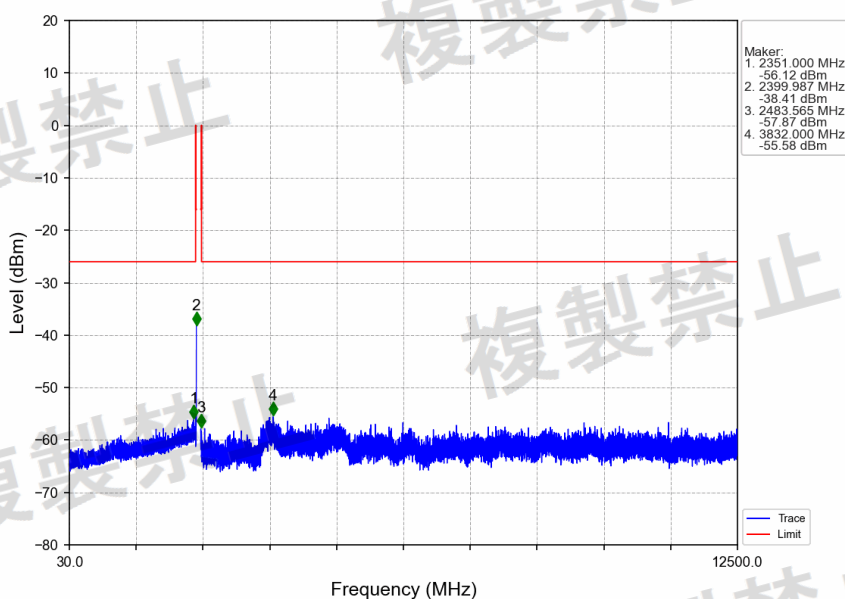


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2377.500	-56.20	/	-26	Pass
2387	2400	1	1	2399.389	-57.45	/	-16	Pass
2483.5	2496.5	1	1	2483.591	-52.36	/	-16	Pass
2496.5	12500	1	1	4931.000	-55.09	/	-26	Pass

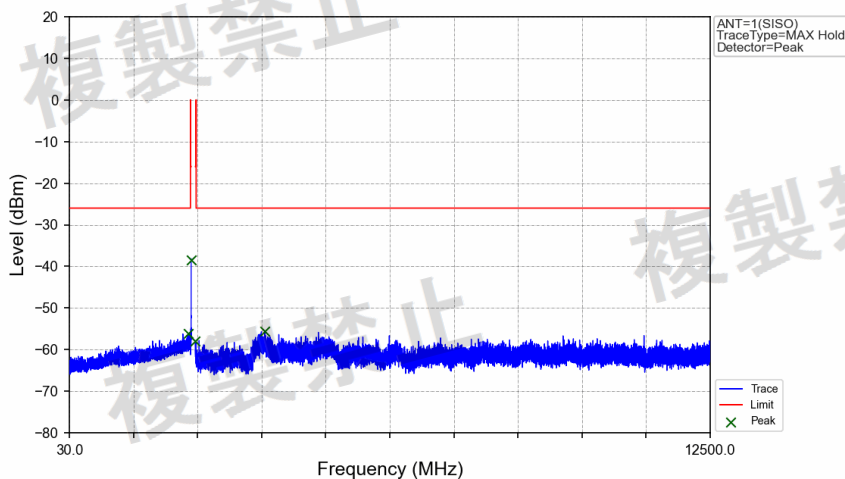
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8DPSK_3DH5_2402MHz_Ant1_NTNV



8DPSK_3DH5_2402MHz_Ant1_NTNV

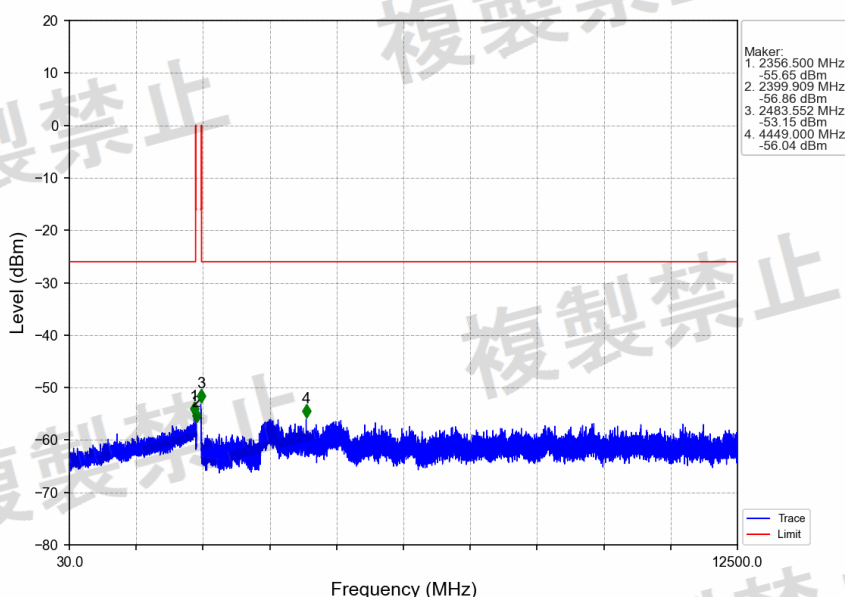


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2351.000	-56.12	/	-26	Pass
2387	2400	1	1	2399.987	-38.41	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-57.87	/	-16	Pass
2496.5	12500	1	1	3832.000	-55.58	/	-26	Pass

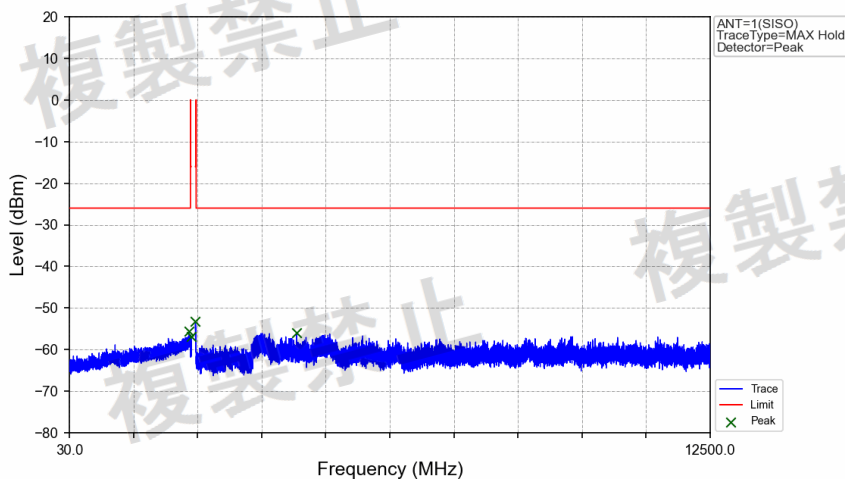
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8DPSK_3DH5_2480MHz_Ant1_NTNV



8DPSK_3DH5_2480MHz_Ant1_NTNV



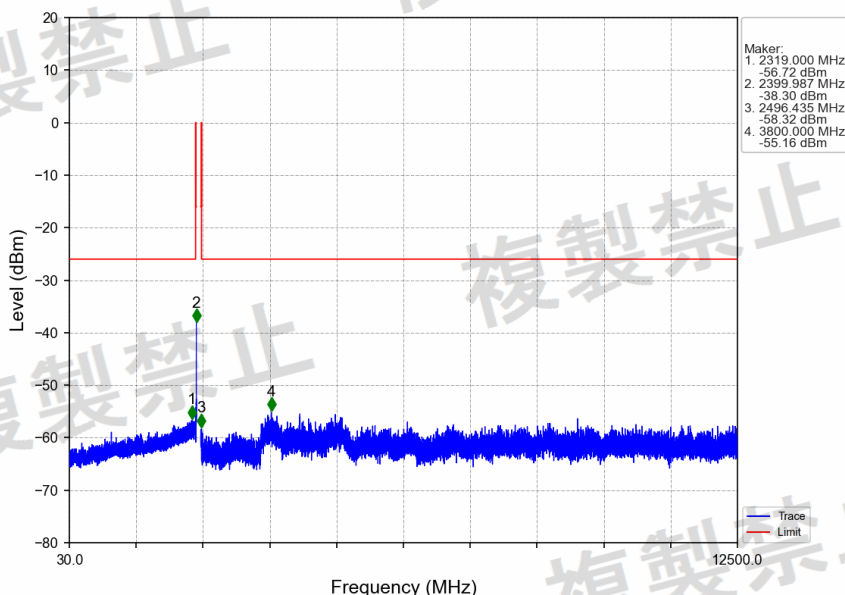
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2356.500	-55.65	/	-26	Pass
2387	2400	1	1	2399.909	-56.86	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-53.15	/	-16	Pass
2496.5	12500	1	1	4449.000	-56.04	/	-26	Pass

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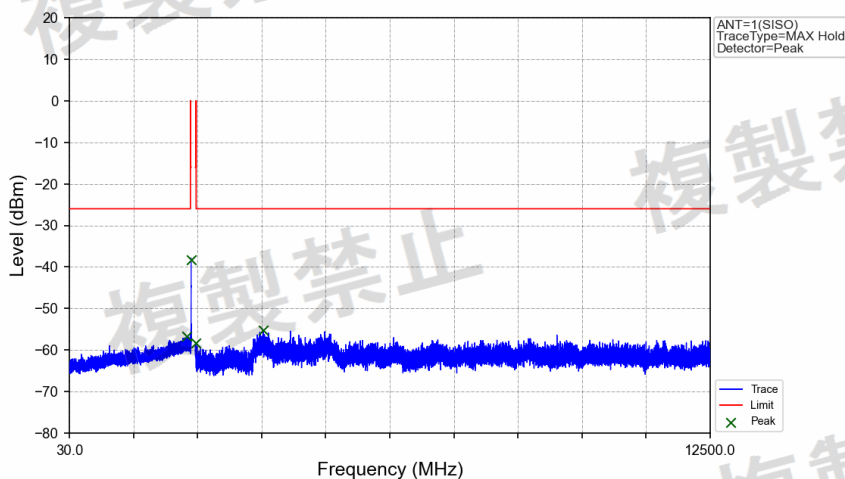
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6.2.2 TxSe_NTLV

GFSK_DH5_2402MHz_Ant1_NTLV



GFSK_DH5_2402MHz_Ant1_NTLV

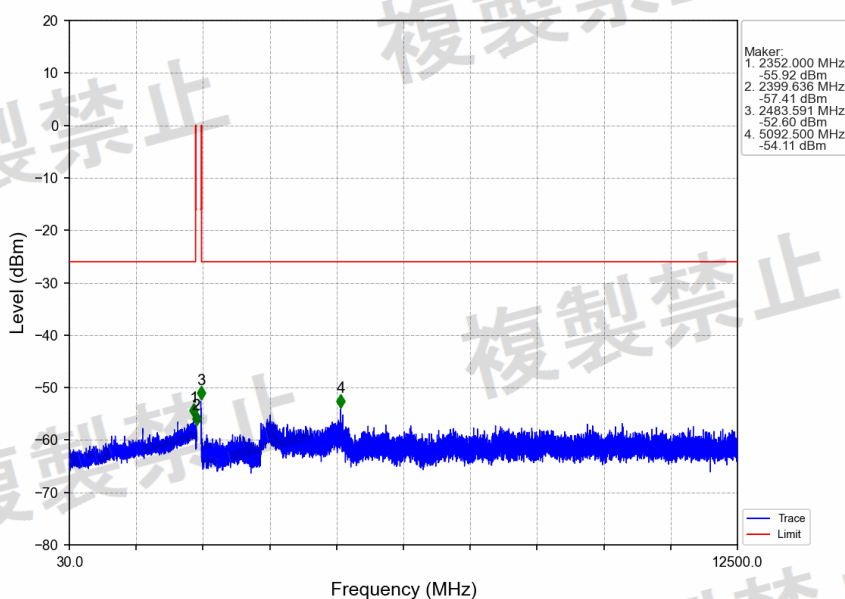


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2319.000	-56.72	/	-26	Pass
2387	2400	1	1	2399.987	-38.30	/	-16	Pass
2483.5	2496.5	1	1	2496.435	-58.32	/	-16	Pass
2496.5	12500	1	1	3800.000	-55.16	/	-26	Pass

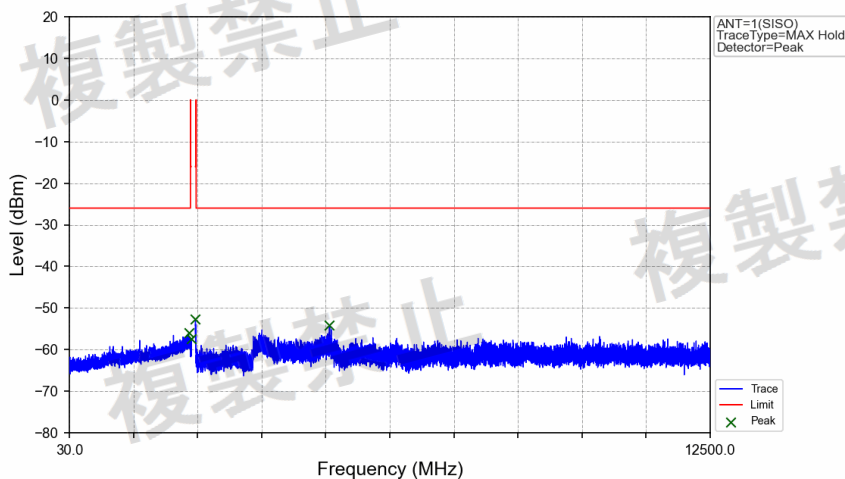
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GFSK_DH5_2480MHz_Ant1_NTLV



GFSK_DH5_2480MHz_Ant1_NTLV

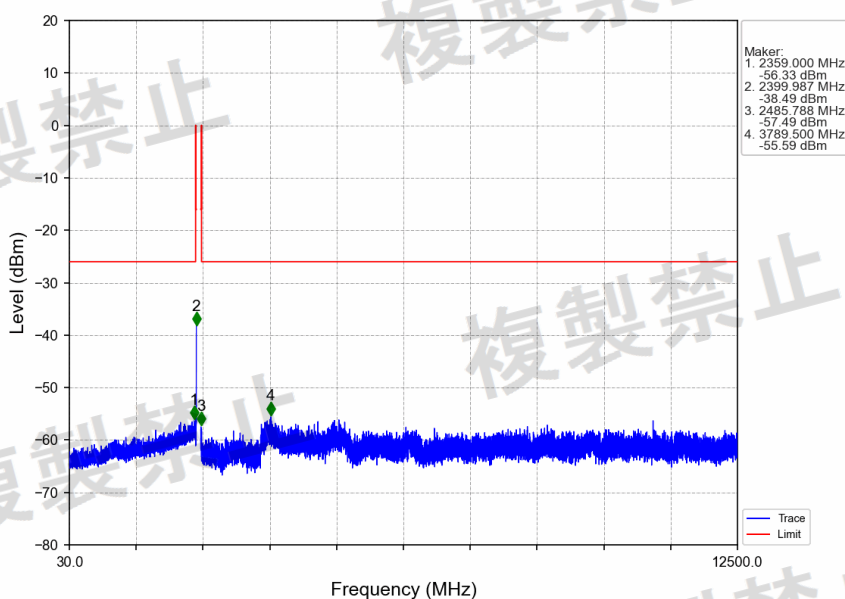


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2352.000	-55.92	/	-26	Pass
2387	2400	1	1	2399.636	-57.41	/	-16	Pass
2483.5	2496.5	1	1	2483.591	-52.60	/	-16	Pass
2496.5	12500	1	1	5092.500	-54.11	/	-26	Pass

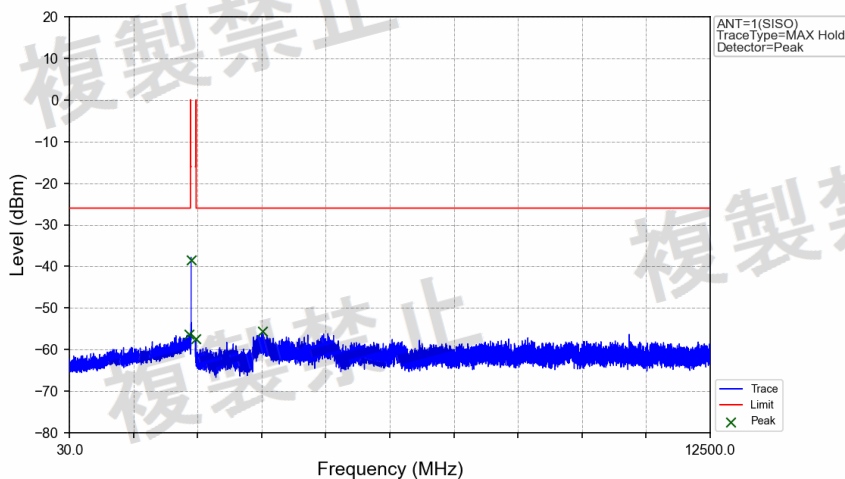
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV

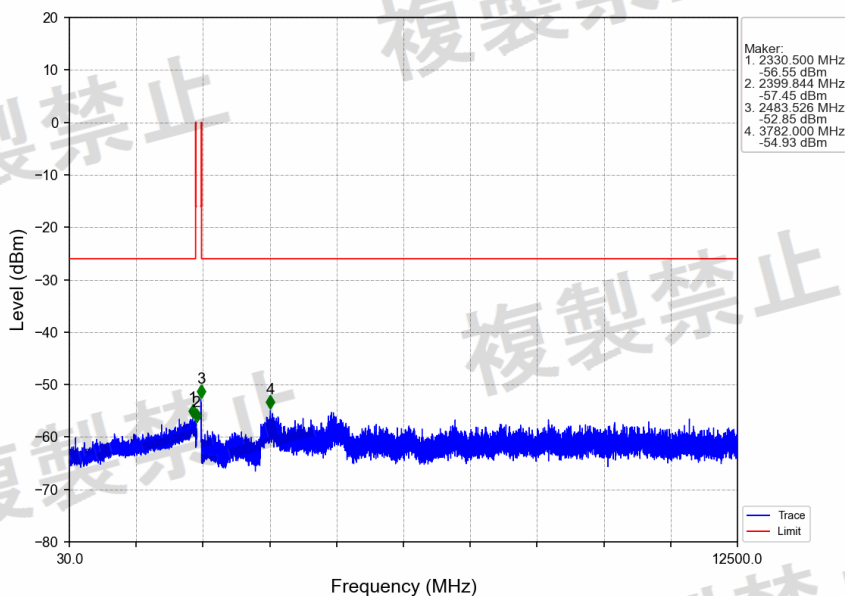


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2359.000	-56.33	/	-26	Pass
2387	2400	1	1	2399.987	-38.49	/	-16	Pass
2483.5	2496.5	1	1	2485.788	-57.49	/	-16	Pass
2496.5	12500	1	1	3789.500	-55.59	/	-26	Pass

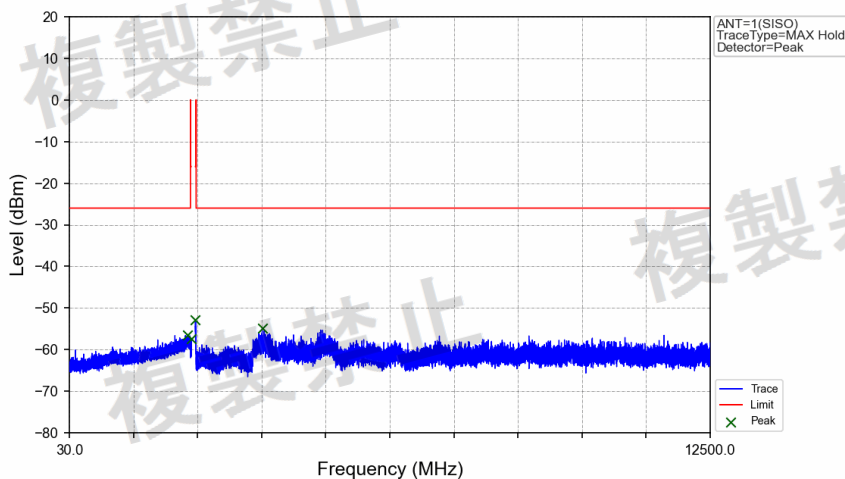
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV

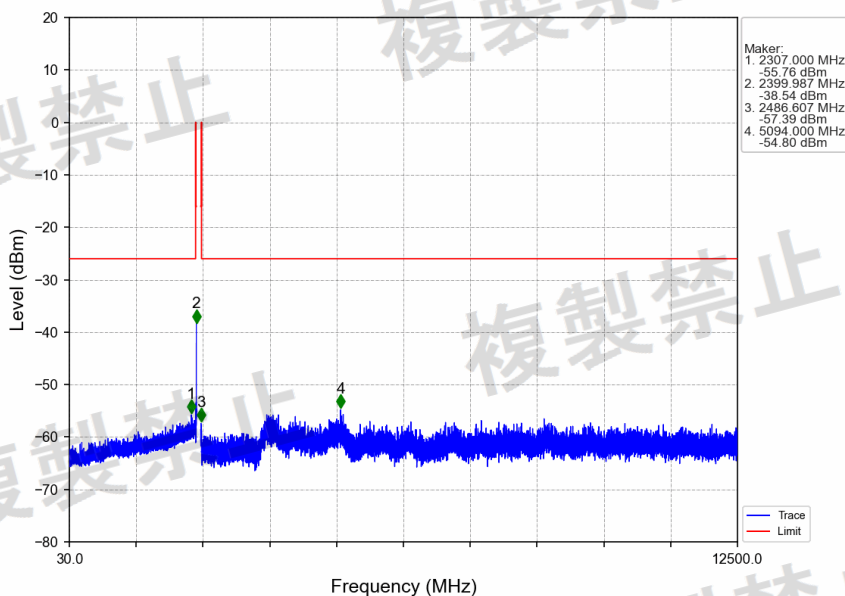


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2330.500	-56.55	/	-26	Pass
2387	2400	1	1	2399.844	-57.45	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-52.85	/	-16	Pass
2496.5	12500	1	1	3782.000	-54.93	/	-26	Pass

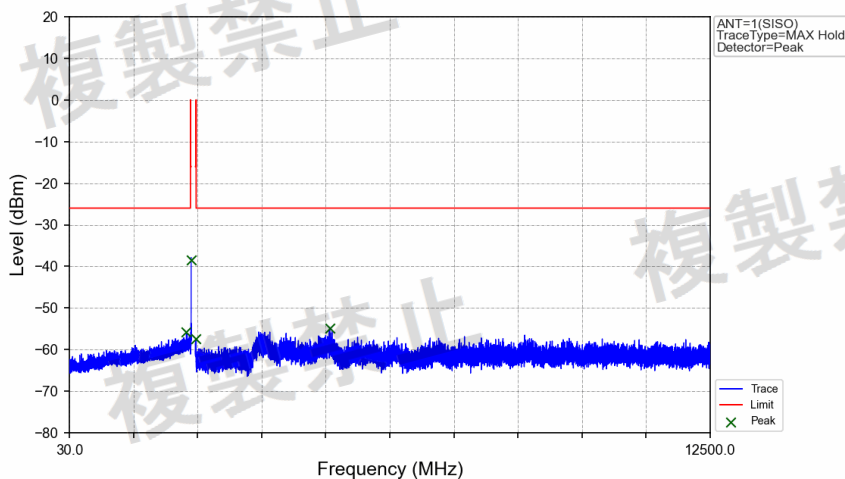
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8DPSK_3DH5_2402MHz_Ant1_NTLV



8DPSK_3DH5_2402MHz_Ant1_NTLV

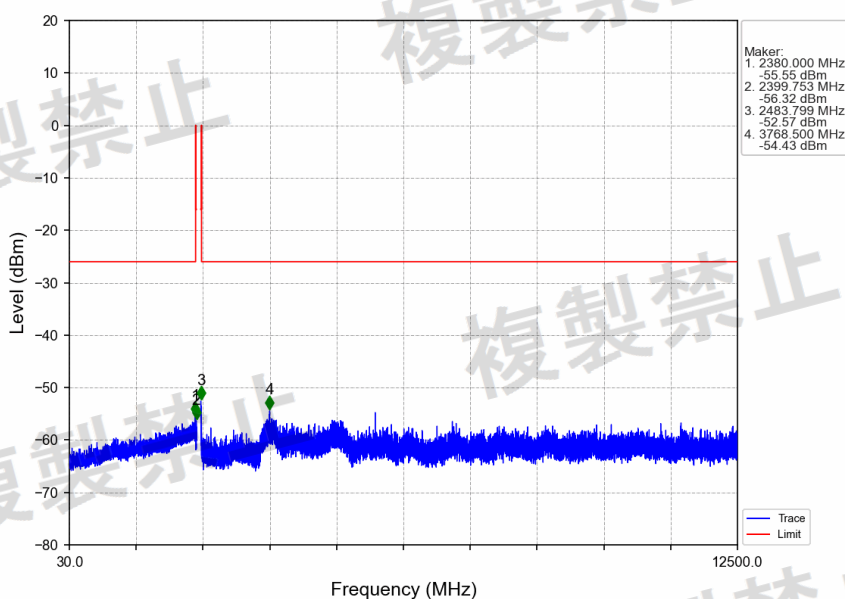


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2307.000	-55.76	/	-26	Pass
2387	2400	1	1	2399.987	-38.54	/	-16	Pass
2483.5	2496.5	1	1	2486.607	-57.39	/	-16	Pass
2496.5	12500	1	1	5094.000	-54.80	/	-26	Pass

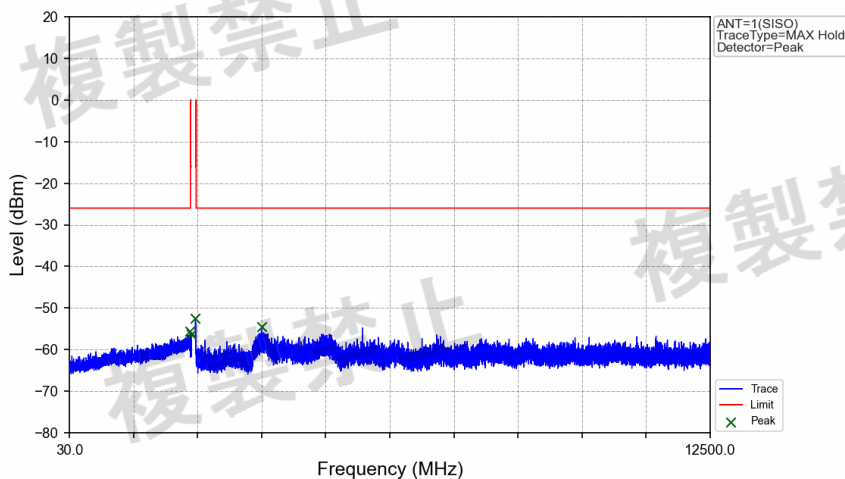
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8DPSK_3DH5_2480MHz_Ant1_NTLV



8DPSK_3DH5_2480MHz_Ant1_NTLV



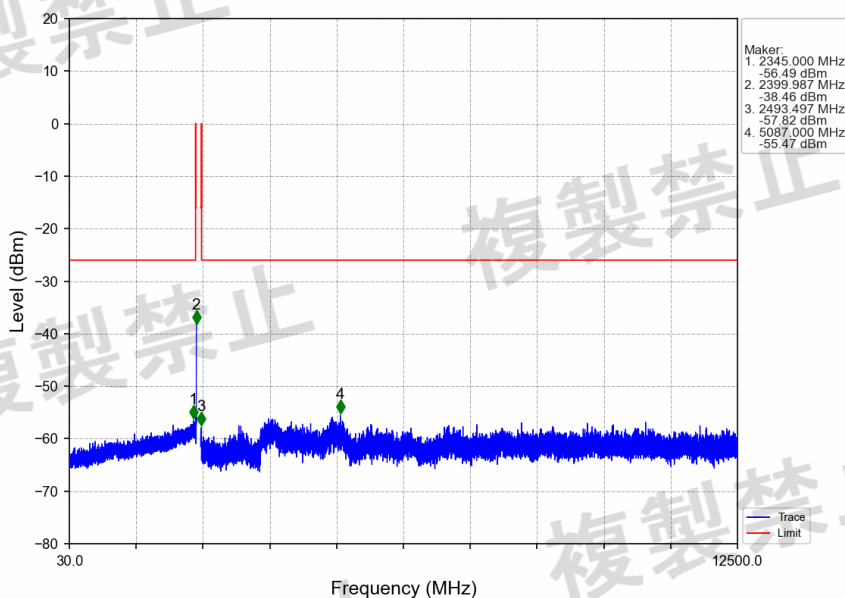
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2380.000	-55.55	/	-26	Pass
2387	2400	1	1	2399.753	-56.32	/	-16	Pass
2483.5	2496.5	1	1	2483.799	-52.57	/	-16	Pass
2496.5	12500	1	1	3768.500	-54.43	/	-26	Pass

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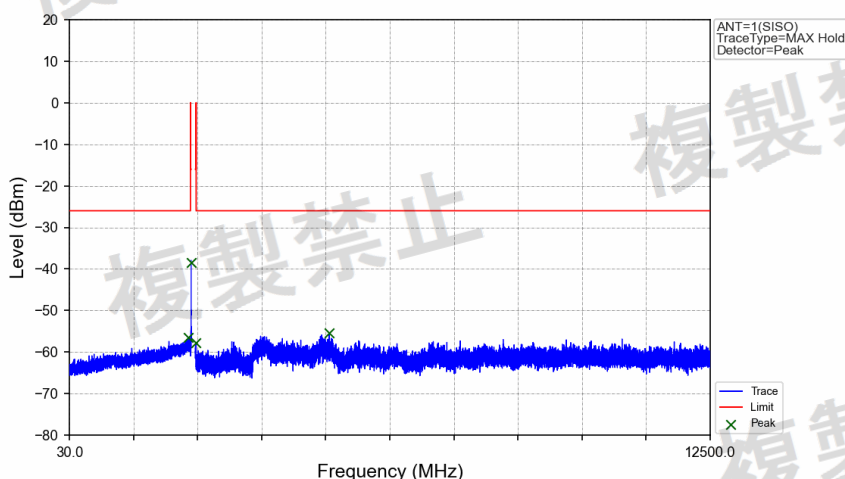
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6.2.3 TxSe_NTHV

GFSK_DH5_2402MHz_Ant1_NTHV



GFSK_DH5_2402MHz_Ant1_NTHV

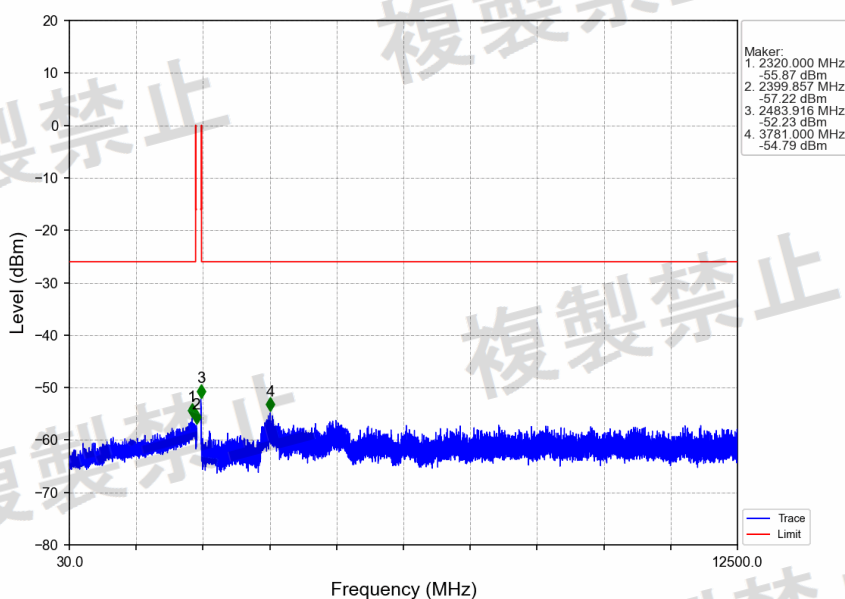


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2345.000	-56.49	/	-26	Pass
2387	2400	1	1	2399.987	-38.46	/	-16	Pass
2483.5	2496.5	1	1	2493.497	-57.82	/	-16	Pass
2496.5	12500	1	1	5087.000	-55.47	/	-26	Pass

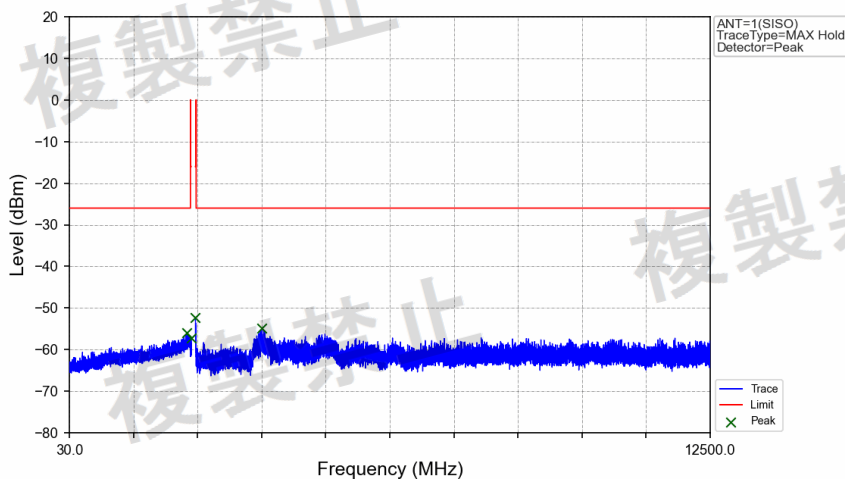
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GFSK_DH5_2480MHz_Ant1_NTHV



GFSK_DH5_2480MHz_Ant1_NTHV

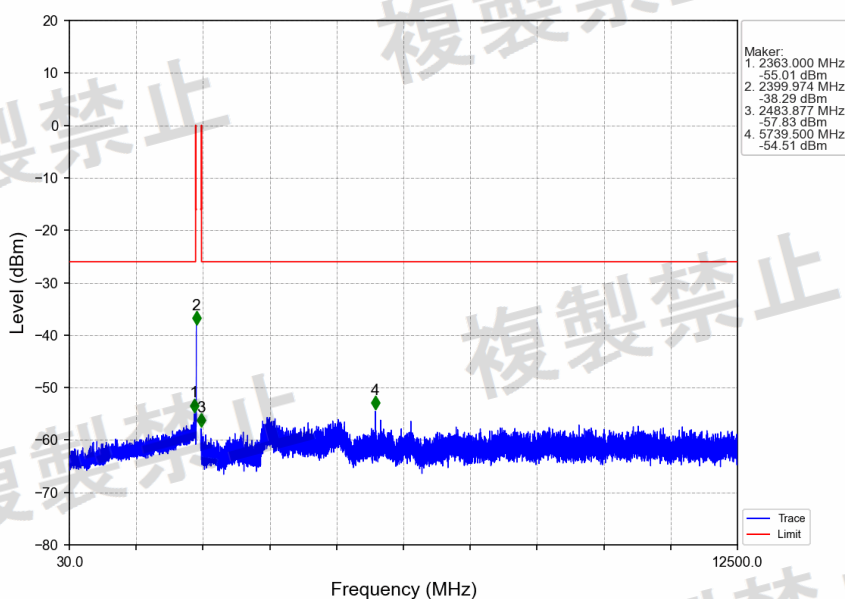


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2320.000	-55.87	/	-26	Pass
2387	2400	1	1	2399.857	-57.22	/	-16	Pass
2483.5	2496.5	1	1	2483.916	-52.23	/	-16	Pass
2496.5	12500	1	1	3781.000	-54.79	/	-26	Pass

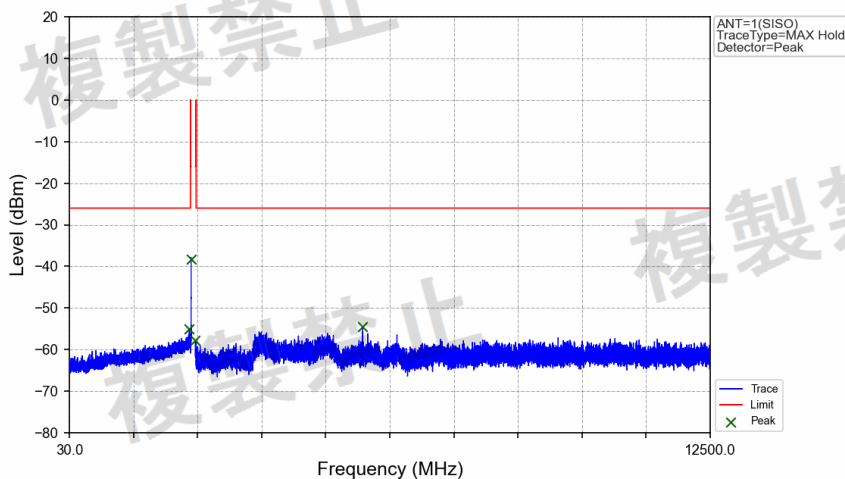
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV

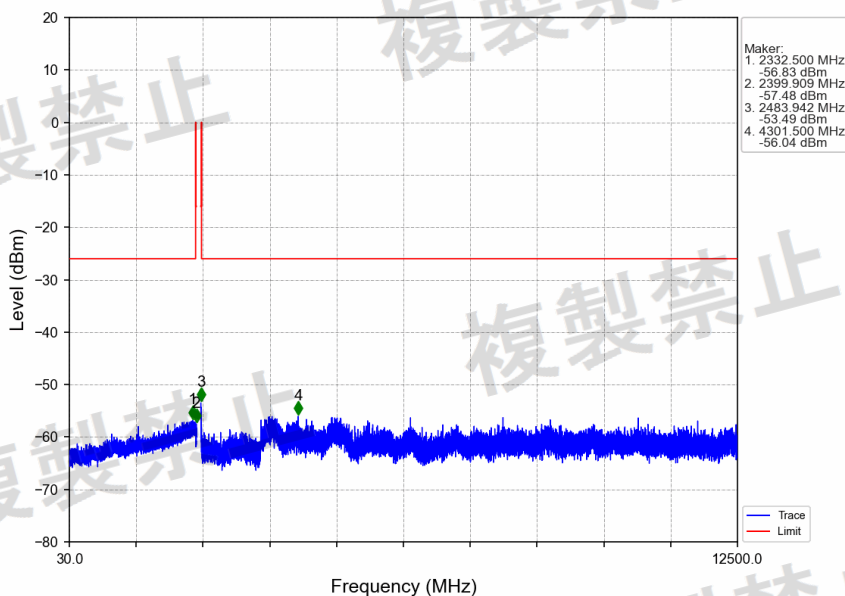


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2363.000	-55.01	/	-26	Pass
2387	2400	1	1	2399.974	-38.29	/	-16	Pass
2483.5	2496.5	1	1	2483.877	-57.83	/	-16	Pass
2496.5	12500	1	1	5739.500	-54.51	/	-26	Pass

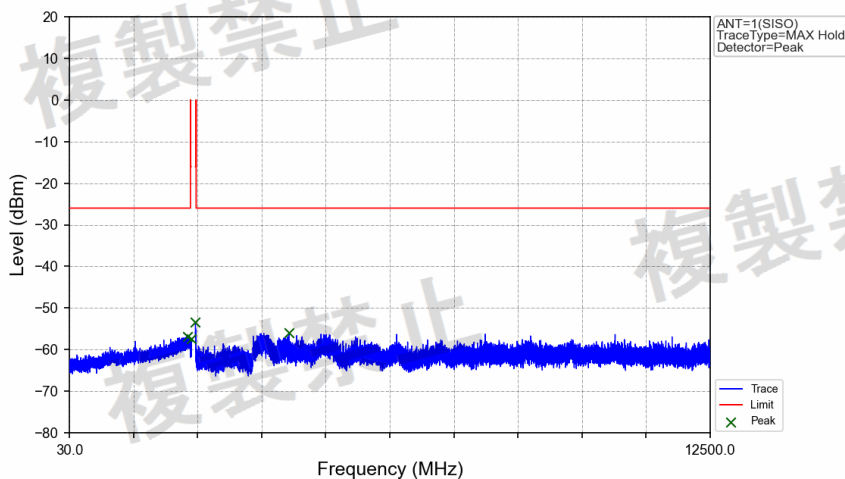
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV

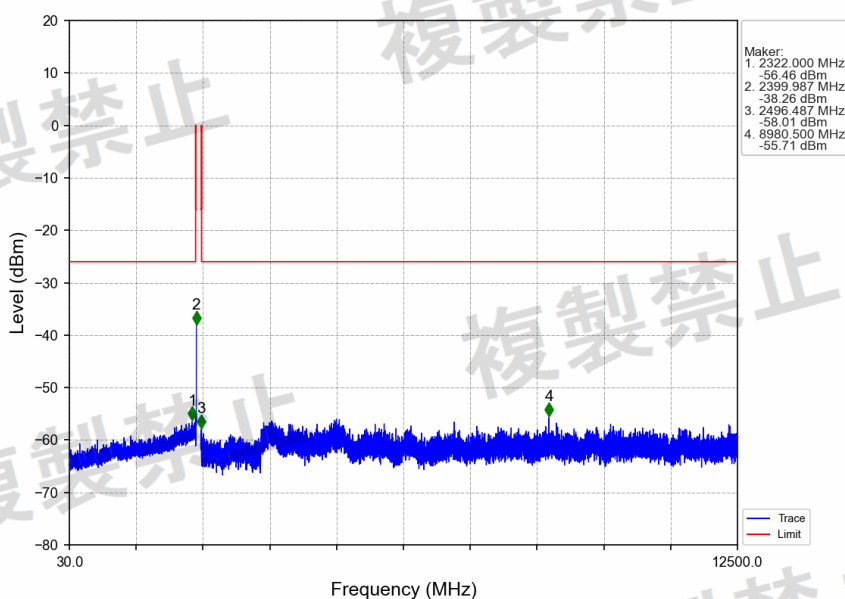


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2332.500	-56.83	/	-26	Pass
2387	2400	1	1	2399.909	-57.48	/	-16	Pass
2483.5	2496.5	1	1	2483.942	-53.49	/	-16	Pass
2496.5	12500	1	1	4301.500	-56.04	/	-26	Pass

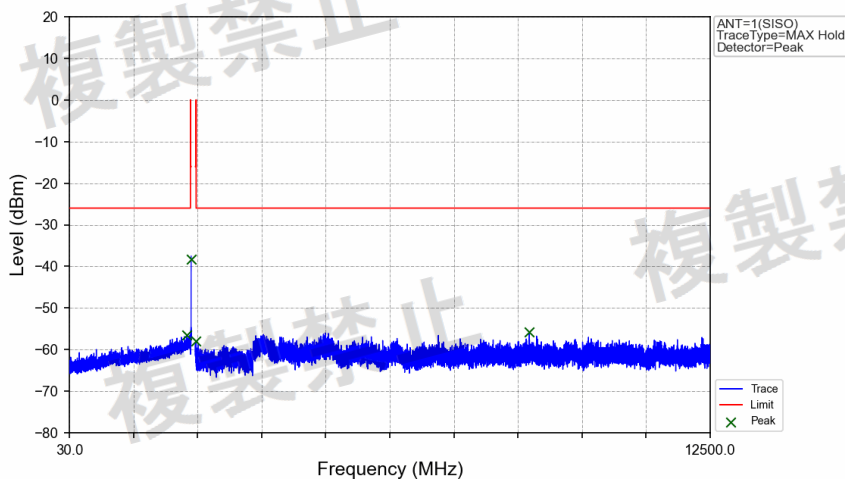
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8DPSK_3DH5_2402MHz_Ant1_NTHV



8DPSK_3DH5_2402MHz_Ant1_NTHV

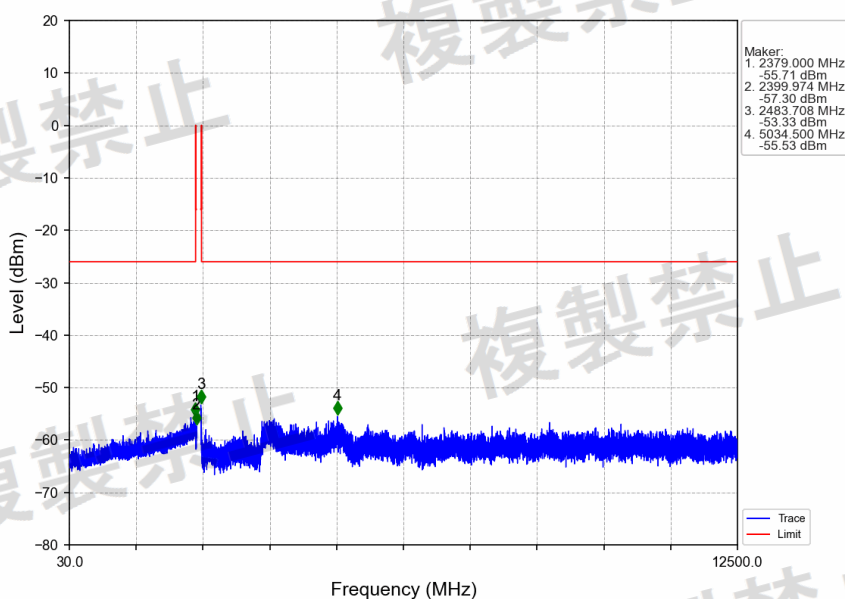


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2322.000	-56.46	/	-26	Pass
2387	2400	1	1	2399.987	-38.26	/	-16	Pass
2483.5	2496.5	1	1	2496.487	-58.01	/	-16	Pass
2496.5	12500	1	1	8980.500	-55.71	/	-26	Pass

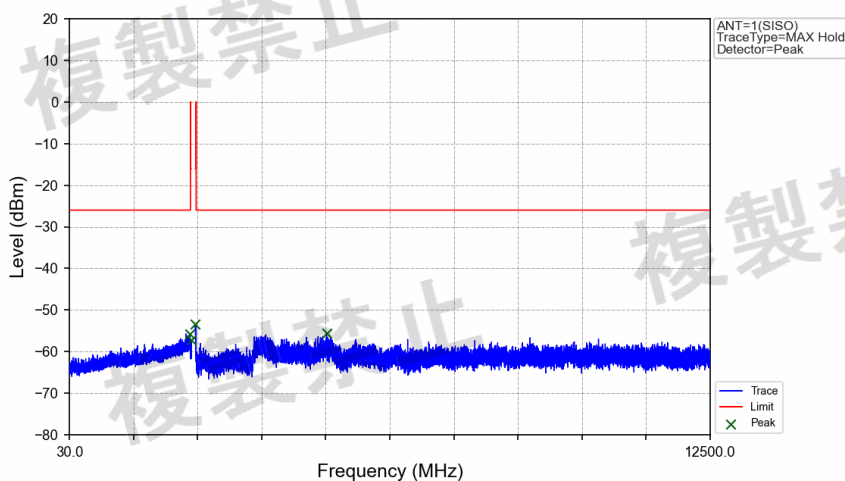
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8DPSK_3DH5_2480MHz_Ant1_NTHV



8DPSK_3DH5_2480MHz_Ant1_NTHV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2379.000	-55.71	/	-26	Pass
2387	2400	1	1	2399.974	-57.30	/	-16	Pass
2483.5	2496.5	1	1	2483.708	-53.33	/	-16	Pass
2496.5	12500	1	1	5034.500	-55.53	/	-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	52	-67.58	0.175	/	/	4	Pass
				1000	12500	2518.5	-47.15	19.275	-69.80	0.105	20	Pass
		2480	1	30	1000	52	-67.07	0.196	/	/	4	Pass
				1000	12500	2459.5	-50.47	8.974	-69.97	0.101	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	711.4	-68.97	0.127	/	/	4	Pass
				1000	12500	2429	-51.07	7.816	-69.78	0.105	20	Pass
		2480	1	30	1000	52.05	-67.03	0.198	/	/	4	Pass
				1000	12500	2456.5	-52.09	6.180	-69.73	0.106	20	Pass
8DPSK	SISO	2402	1	30	1000	835	-69.20	0.120	/	/	4	Pass
				1000	12500	3835	-54.74	3.357	/	/	20	Pass
		2480	1	30	1000	52.05	-67.25	0.188	/	/	4	Pass
				1000	12500	2459.5	-50.85	8.222	-69.82	0.104	20	Pass
						2464.5	-51.70	6.761	-69.81	0.104	20	Pass

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7.1.2 RxSe_NTLV

NTLV												
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	816.75	-69.19	0.121	/	/	4	Pass
				1000	12500	5064	-54.84	3.281	/	/	20	Pass
		2480	1	30	1000	52	-67.45	0.180	/	/	4	Pass
				1000	12500	5184	-52.92	5.105	-67.47	0.179	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	52	-68.09	0.155	/	/	4	Pass
				1000	12500	3692	-54.81	3.304	/	/	20	Pass
		2480	1	30	1000	52	-67.02	0.199	/	/	4	Pass
				1000	12500	2460	-51.09	7.780	-69.94	0.101	20	Pass
						5182.5	-50.78	8.356	-67.29	0.187	20	Pass
						5187.5	-52.07	6.209	-67.54	0.176	20	Pass
8DPSK	SISO	2402	1	30	1000	832.95	-69.61	0.109	/	/	4	Pass
				1000	12500	2431	-49.43	11.402	-70.04	0.099	20	Pass
		2480	1	30	1000	64	-67.05	0.197	/	/	4	Pass
				1000	12500	5029	-53.99	3.990	/	/	20	Pass

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7.1.3 RxSe_NTHV

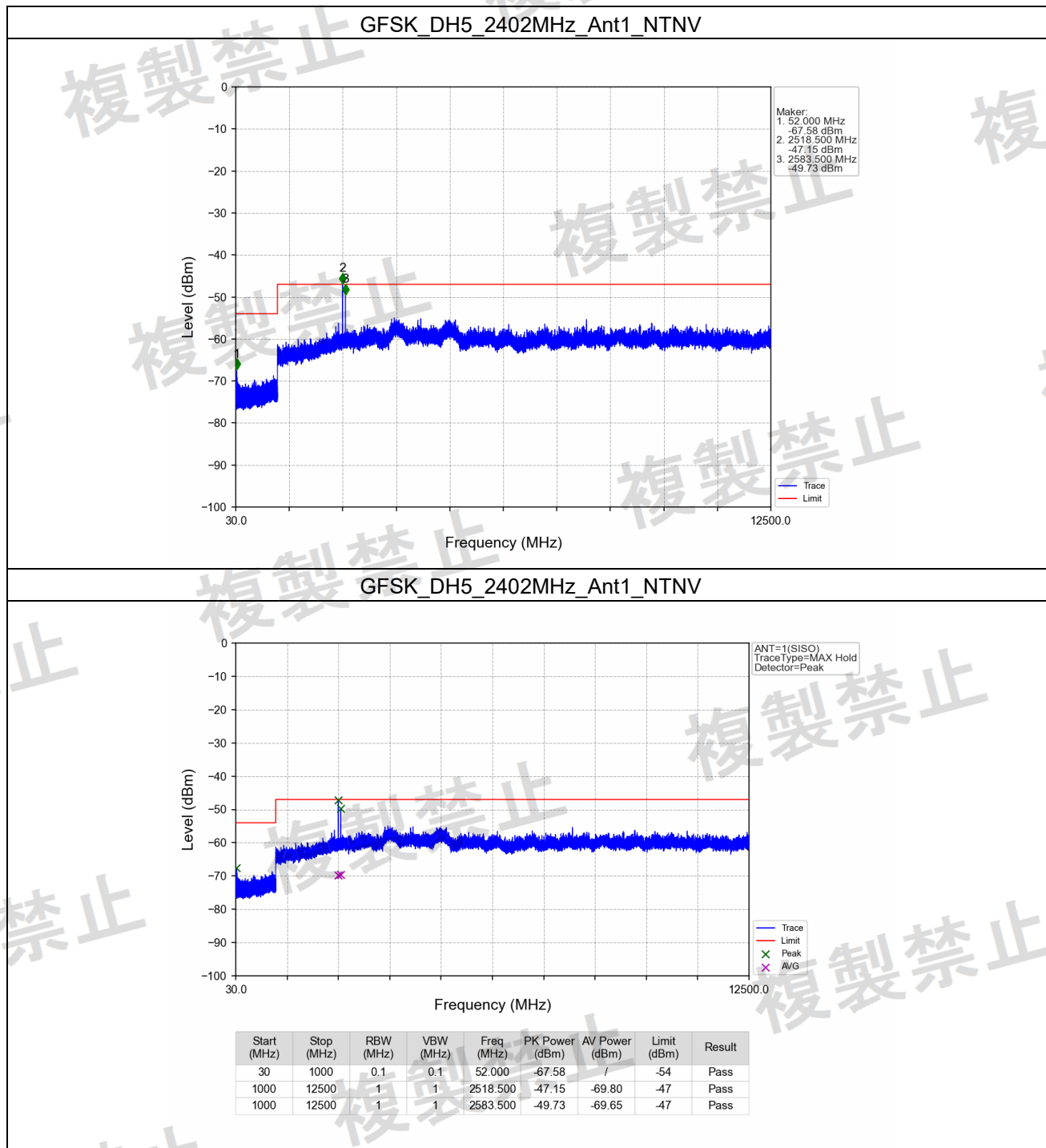
NTHV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
GFSK	SISO	2402	1	30	1000	910.45	-69.32	0.117	/	/	4	Pass
				1000	12500	3848.5	-54.92	3.221	/	/	20	Pass
		2480	1	30	1000	64	-67.26	0.188	/	/	4	Pass
				1000	12500	2464	-52.10	6.166	-69.93	0.102	20	Pass
Pi/4DQPSK	SISO	2402	1	30	1000	52	-68.08	0.156	/	/	4	Pass
				1000	12500	2430	-50.86	8.204	-69.96	0.101	20	Pass
						2518	-47.87	16.331	-70.07	0.098	20	Pass
						2566.5	-48.28	14.859	-69.65	0.108	20	Pass
		2480	1	30	1000	52	-67.13	0.194	/	/	4	Pass
				1000	12500	2454	-51.76	6.668	-69.83	0.104	20	Pass
						2460.5	-49.47	11.298	-69.80	0.105	20	Pass
						2464.5	-51.11	7.745	-69.55	0.111	20	Pass
8DPSK	SISO	2402	1	30	1000	867.35	-69.45	0.114	/	/	4	Pass
				1000	12500	2580	-50.94	8.054	-69.71	0.107	20	Pass
		2480	1	30	1000	52.05	-67.82	0.165	/	/	4	Pass
				1000	12500	2461.5	-50.20	9.550	-69.84	0.104	20	Pass

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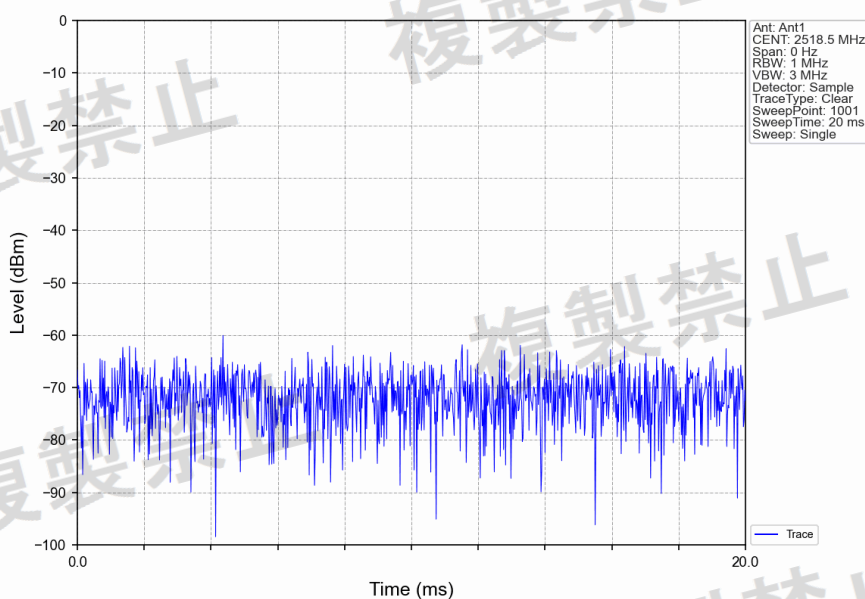
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7.2 Test Graph

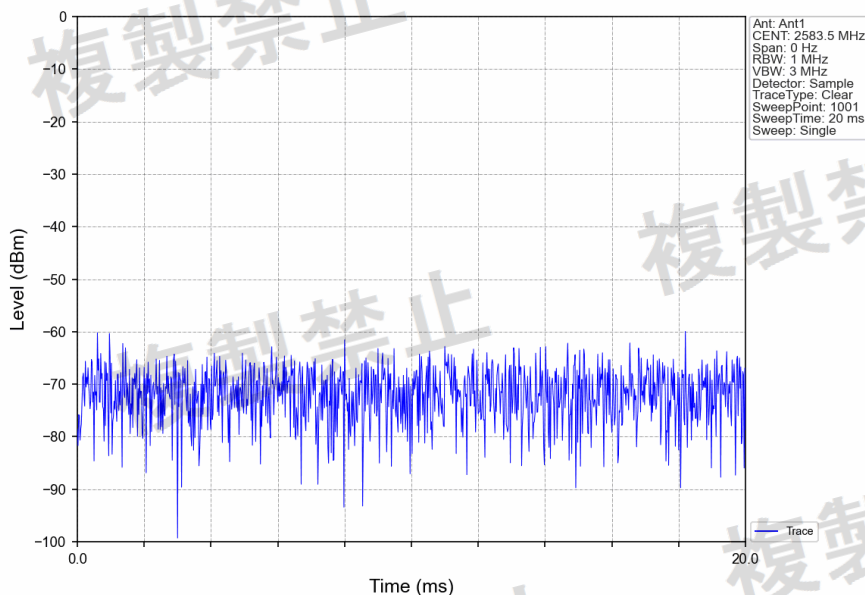
7.2.1 RxSe_NTNV



GFSK_DH5_2402MHz_Ant1_NTNV



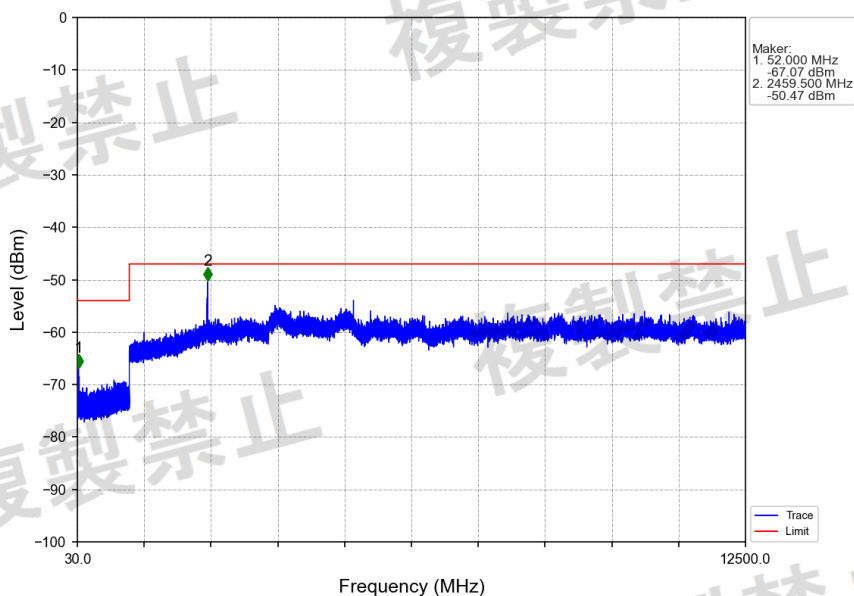
GFSK_DH5_2402MHz_Ant1_NTNV



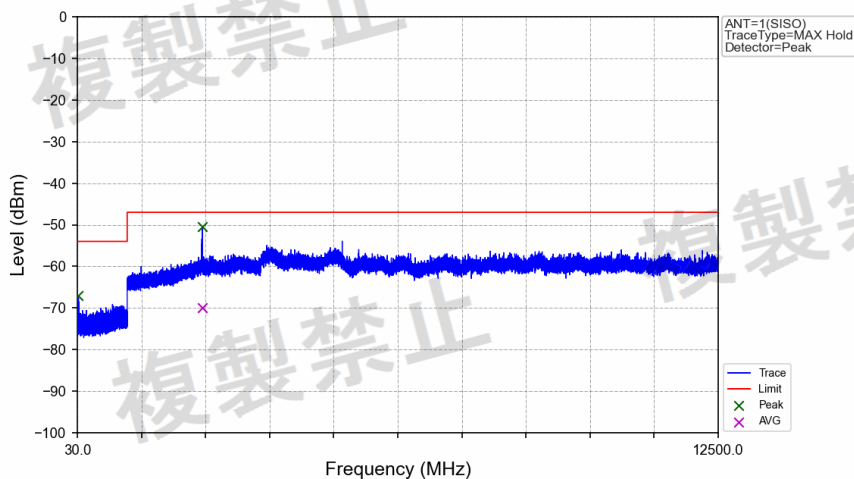
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GFSK_DH5_2480MHz_Ant1_NTNV



GFSK_DH5_2480MHz_Ant1_NTNV

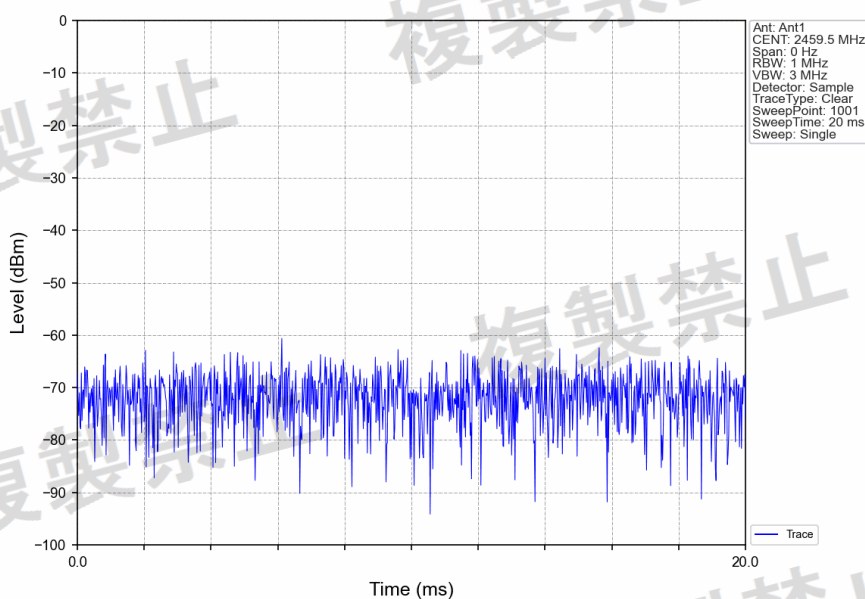


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	52.000	-67.07	/	-54	Pass
1000	12500	1	1	2459.500	-50.47	-69.97	-47	Pass

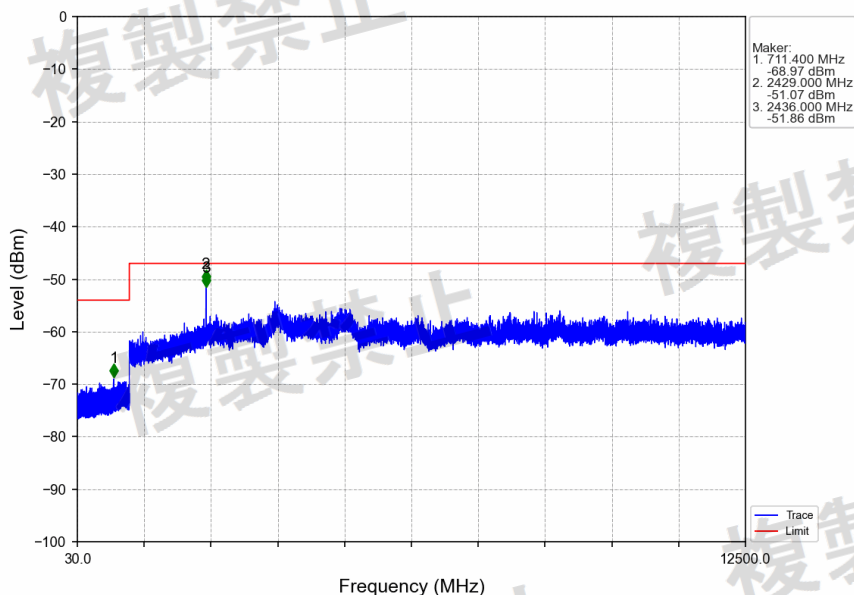
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GFSK_DH5_2480MHz_Ant1_NTNV



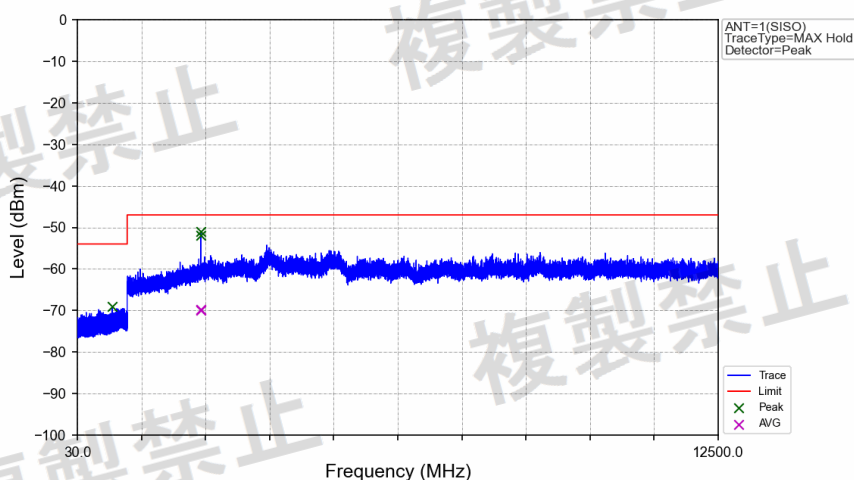
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



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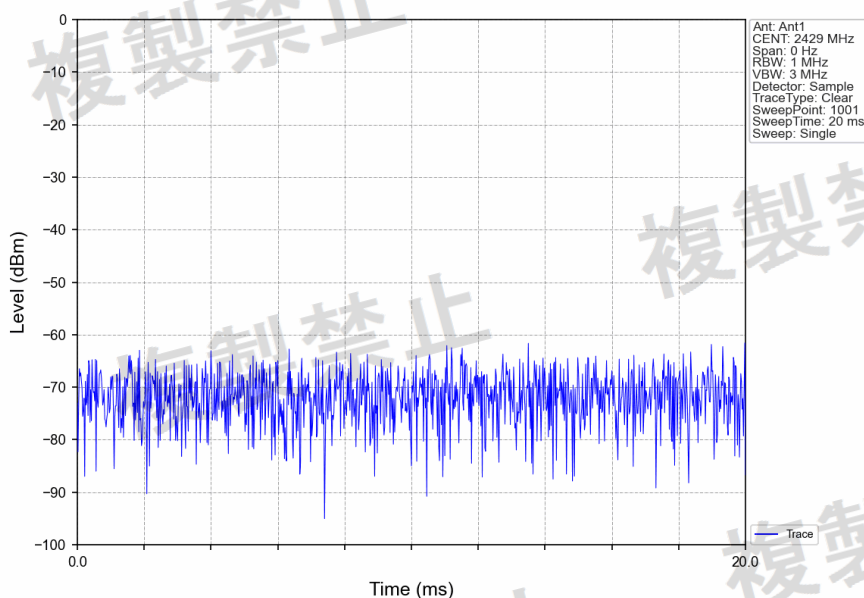
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



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	711.400	-68.97	/	-54	Pass
1000	12500	1	1	2429.000	-51.07	-69.78	-47	Pass
1000	12500	1	1	2436.000	-51.86	-69.92	-47	Pass

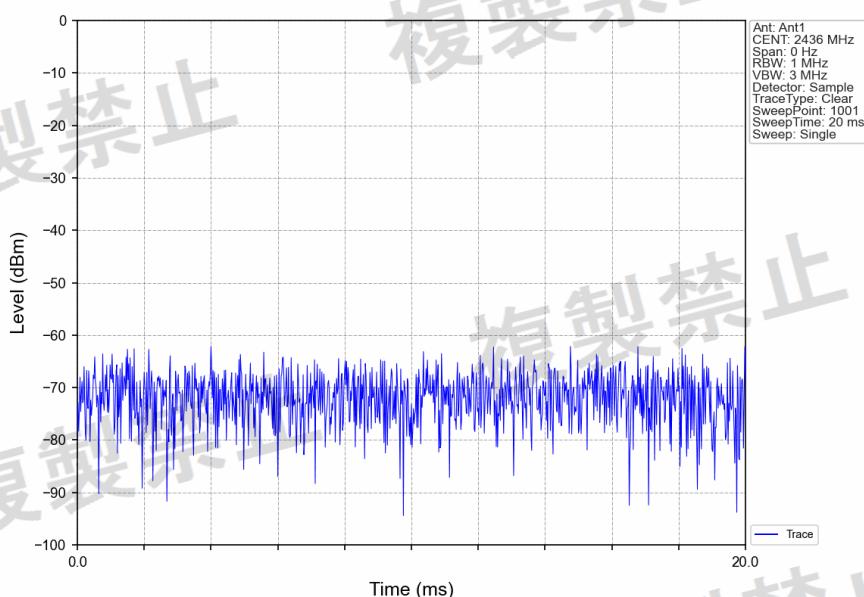
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



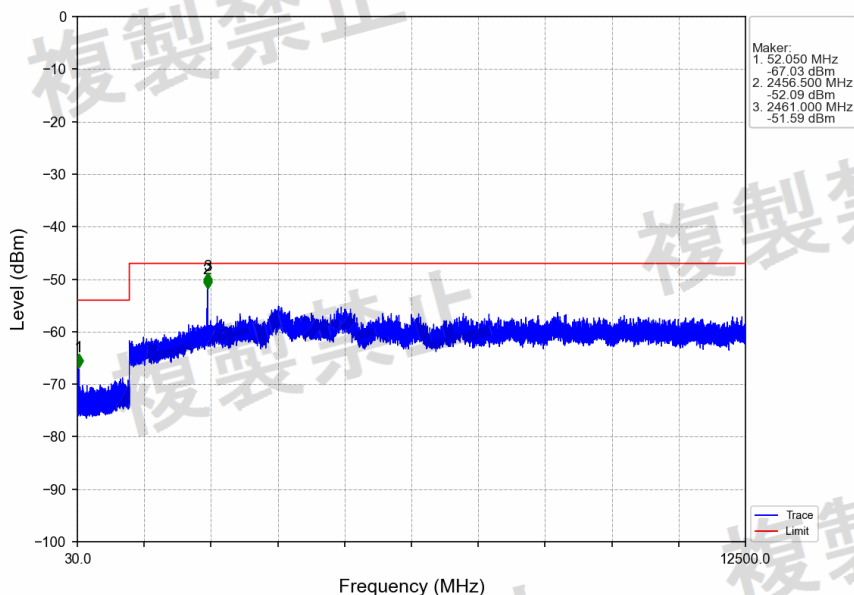
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTNV



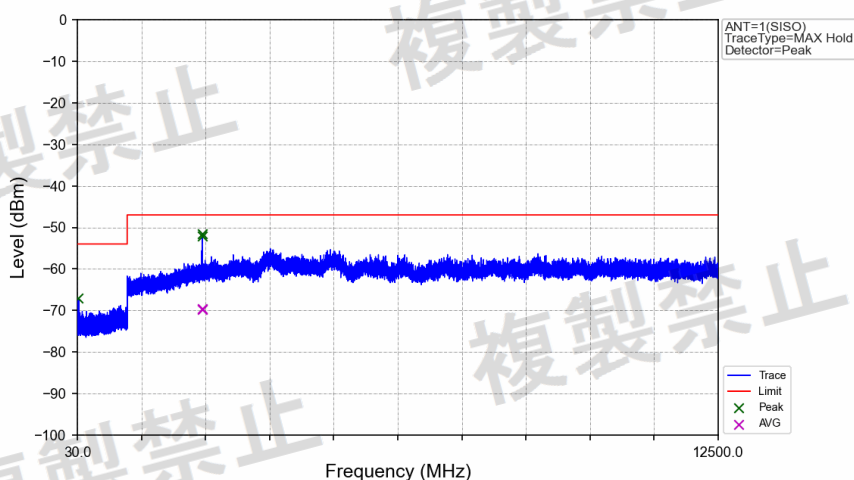
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



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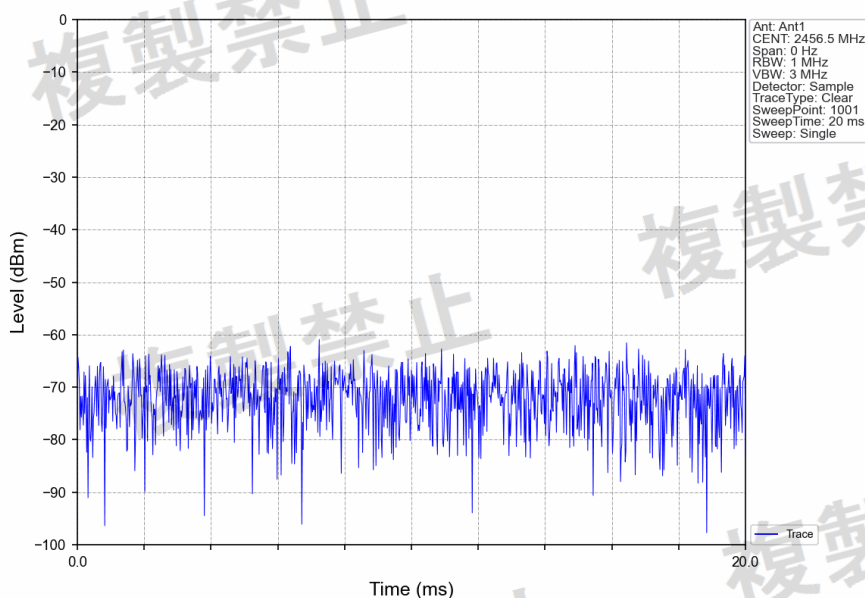
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



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	52.050	-67.03	/	-54	Pass
1000	12500	1	1	2456.500	-52.09	-69.73	-47	Pass
1000	12500	1	1	2461.000	-51.59	-69.58	-47	Pass

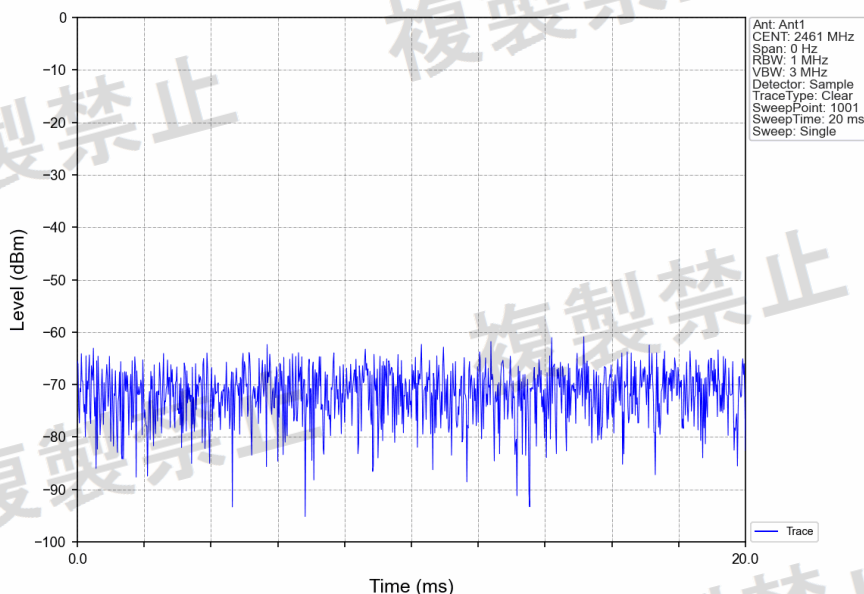
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



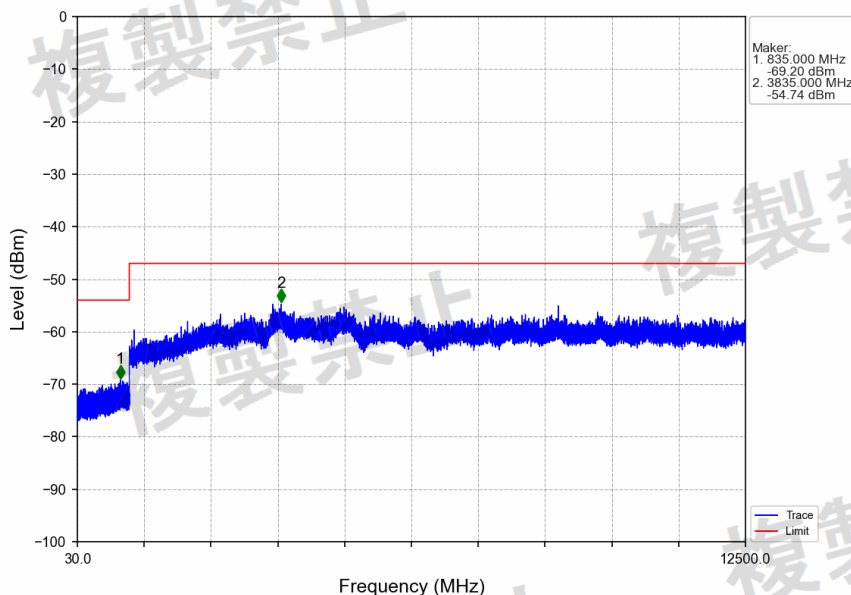
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTNV



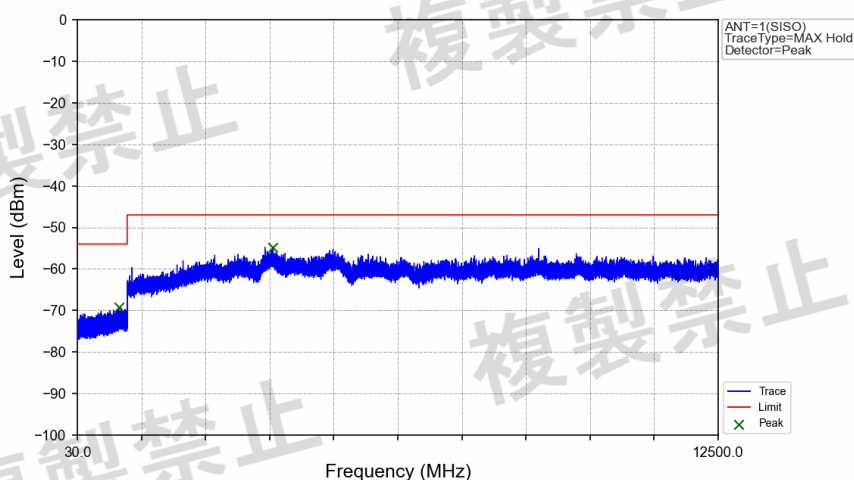
8DPSK_3DH5_2402MHz_Ant1_NTNV



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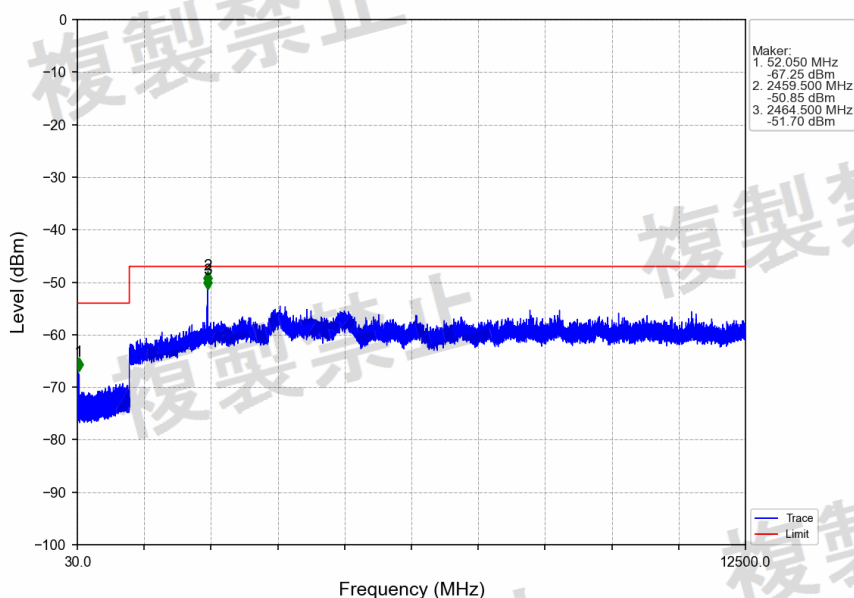
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8DPSK_3DH5_2402MHz_Ant1_NTNV



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	835.000	-69.20	/	-54	Pass
1000	12500	1	1	3835.000	-54.74	/	-47	Pass

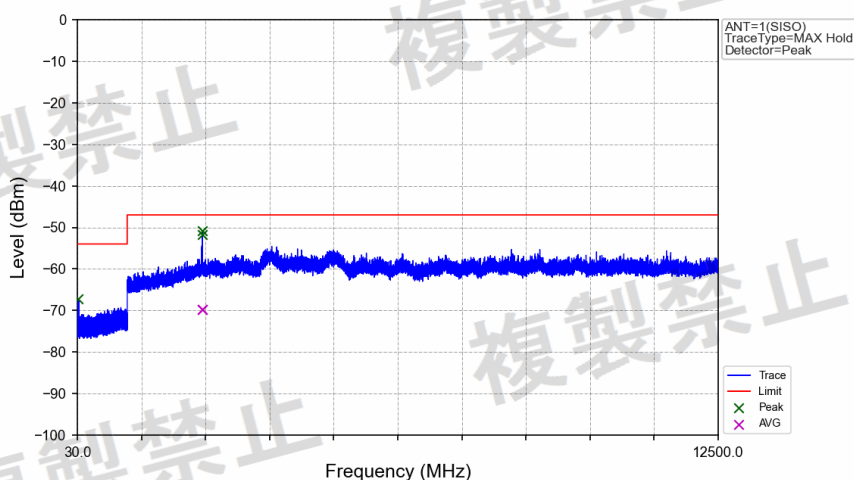
8DPSK_3DH5_2480MHz_Ant1_NTNV



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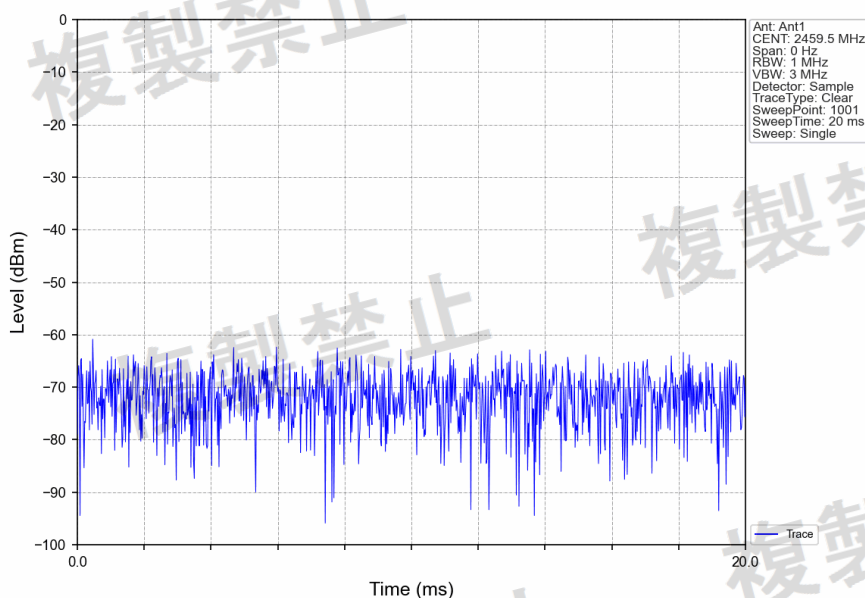
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8DPSK_3DH5_2480MHz_Ant1_NTNV



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	52.050	-67.25	/	-54	Pass
1000	12500	1	1	2459.500	-50.85	-69.82	-47	Pass
1000	12500	1	1	2464.500	-51.70	-69.81	-47	Pass

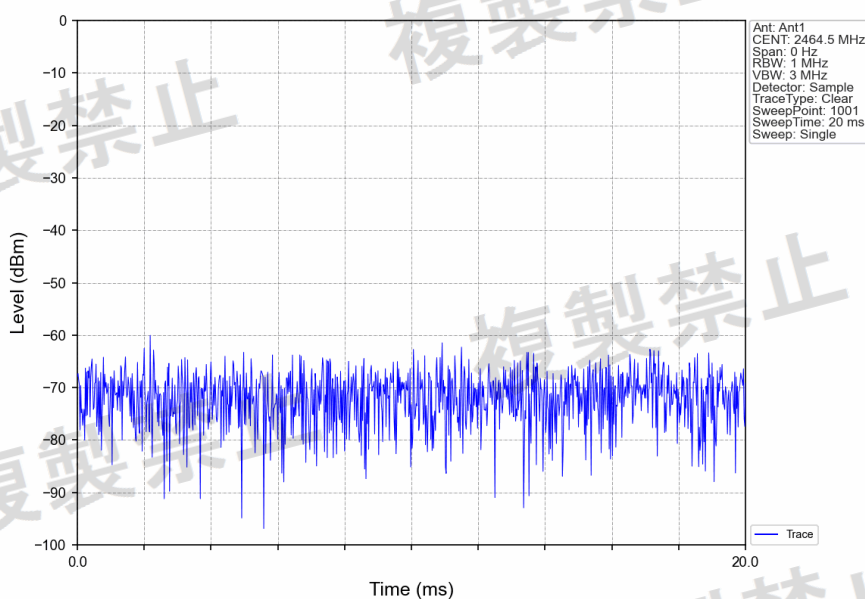
8DPSK_3DH5_2480MHz_Ant1_NTNV



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8DPSK_3DH5_2480MHz_Ant1_NTNV

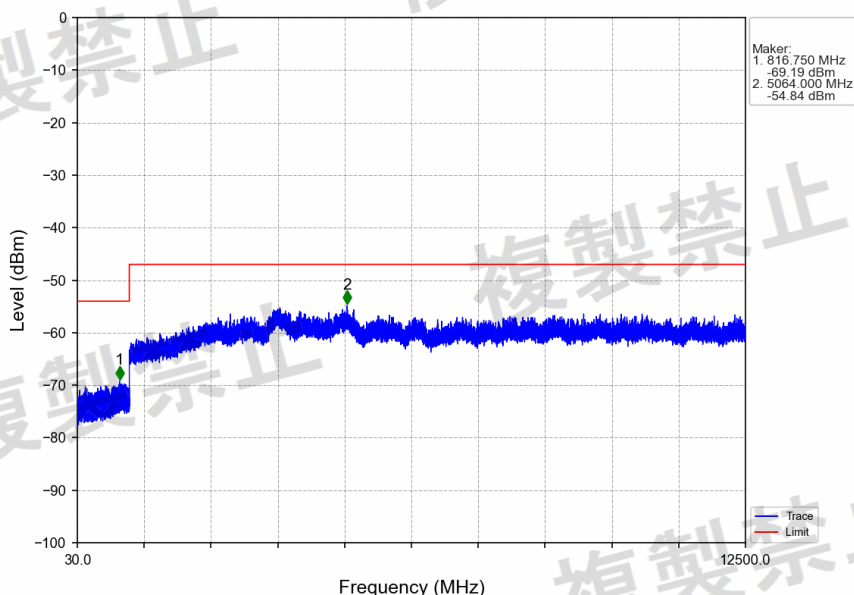


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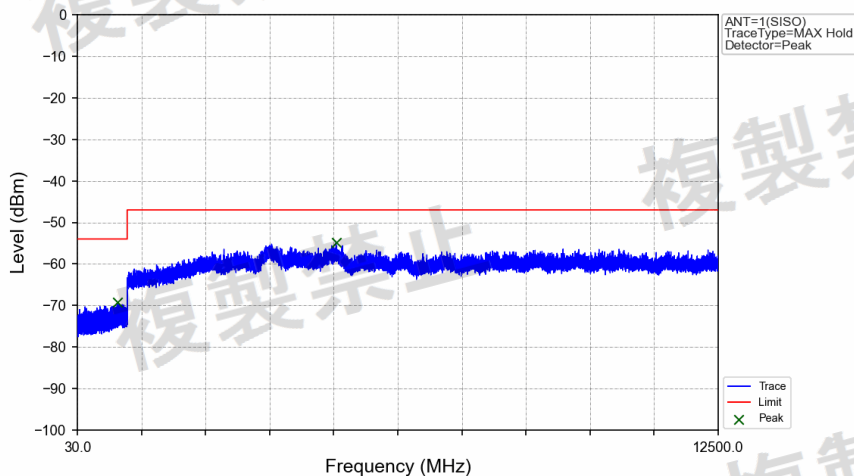
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7.2.2 RxSe_NTLV

GFSK_DH5_2402MHz_Ant1_NTLV



GFSK_DH5_2402MHz_Ant1_NTLV

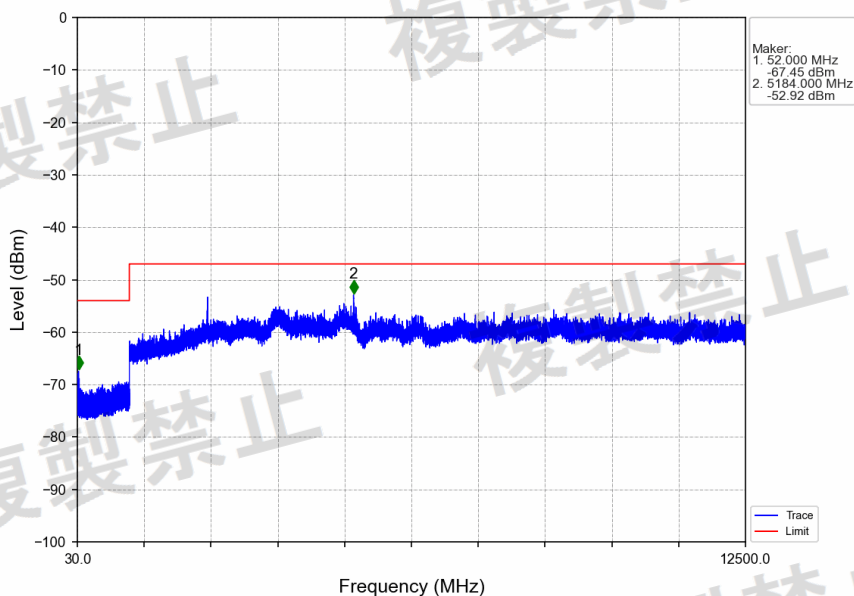


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	816.750	-69.19	/	-54	Pass
1000	12500	1	1	5064.000	-54.84	/	-47	Pass

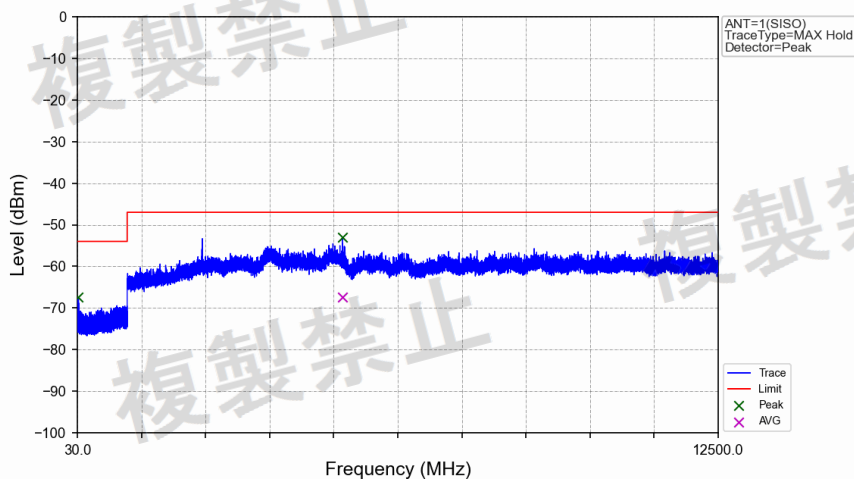
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GFSK_DH5_2480MHz_Ant1_NTLV



GFSK_DH5_2480MHz_Ant1_NTLV

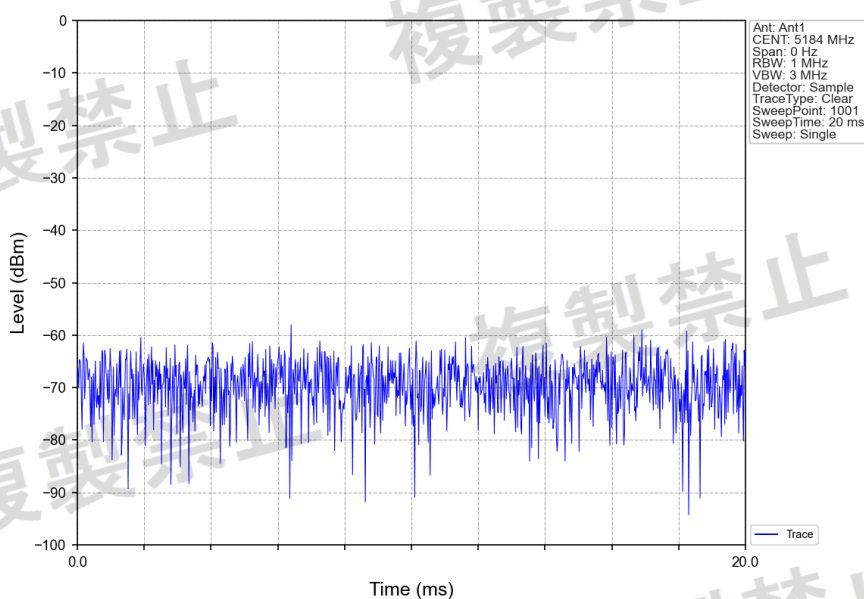


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	52.000	-67.45	/	-54	Pass
1000	12500	1	1	5184.000	-52.92	-67.47	-47	Pass

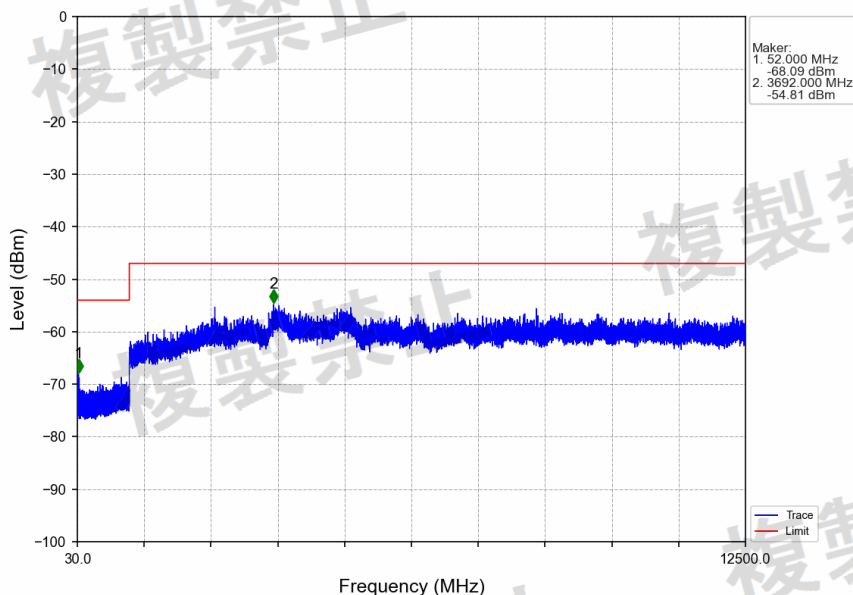
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GFSK_DH5_2480MHz_Ant1_NTLV



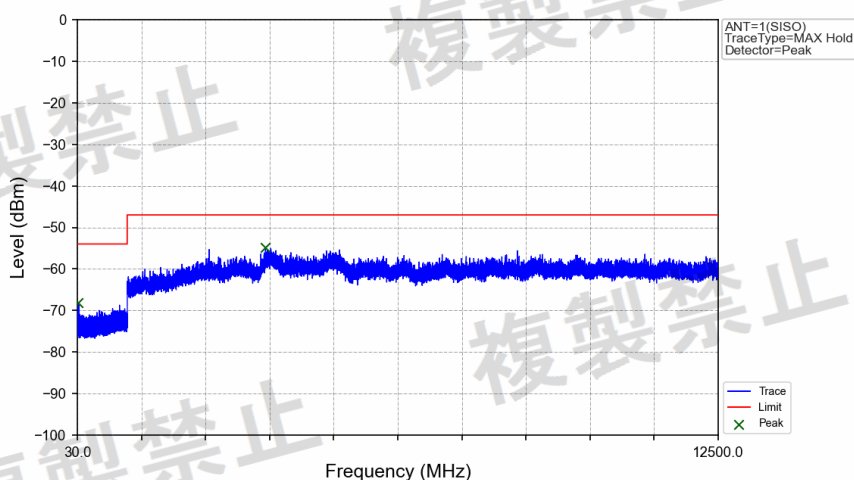
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



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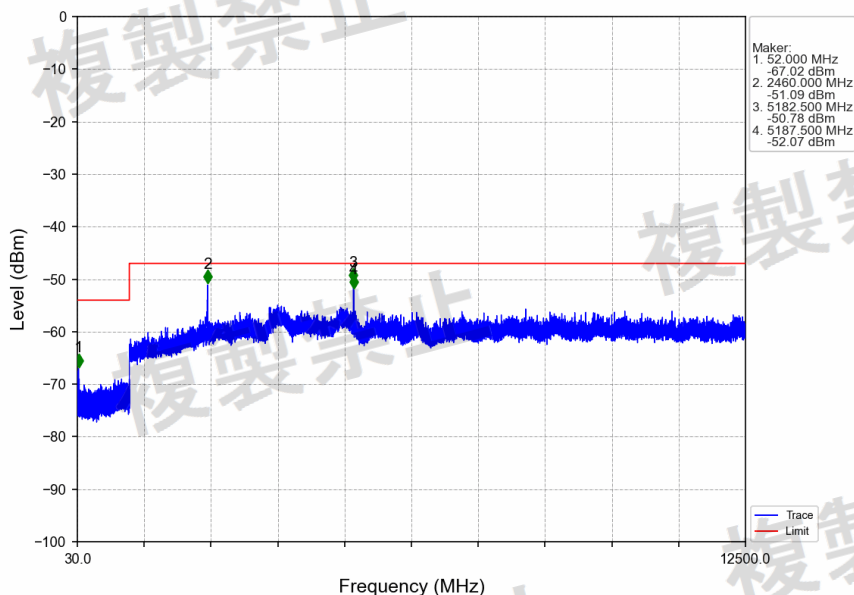
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTLV



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	52.000	-68.09	/	-54	Pass
1000	12500	1	1	3692.000	-54.81	/	-47	Pass

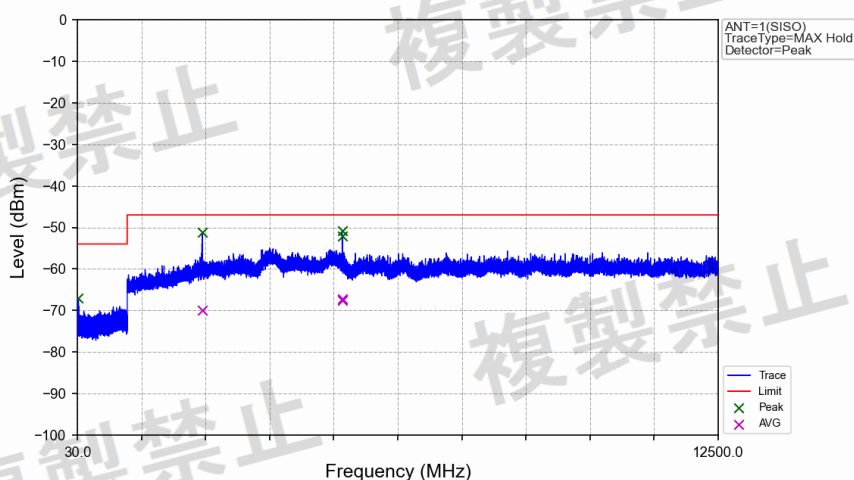
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



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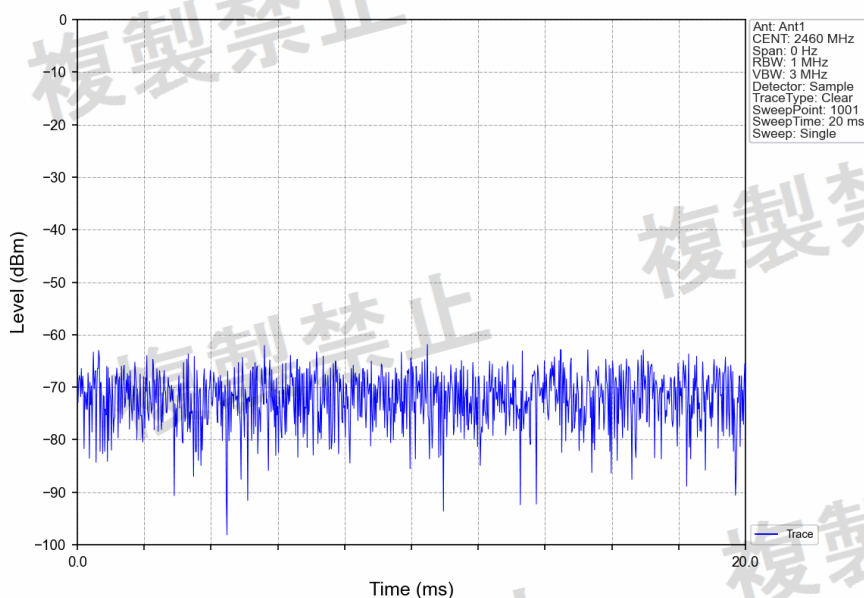
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



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	52.000	-67.02	/	-54	Pass
1000	12500	1	1	2460.000	-51.09	-69.94	-47	Pass
1000	12500	1	1	5182.500	-50.78	-67.29	-47	Pass
1000	12500	1	1	5187.500	-52.07	-67.54	-47	Pass

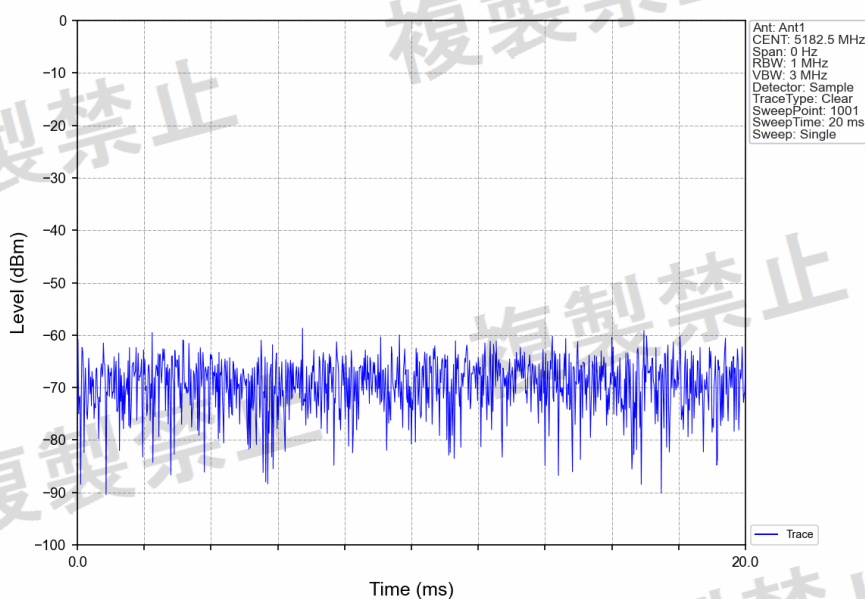
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



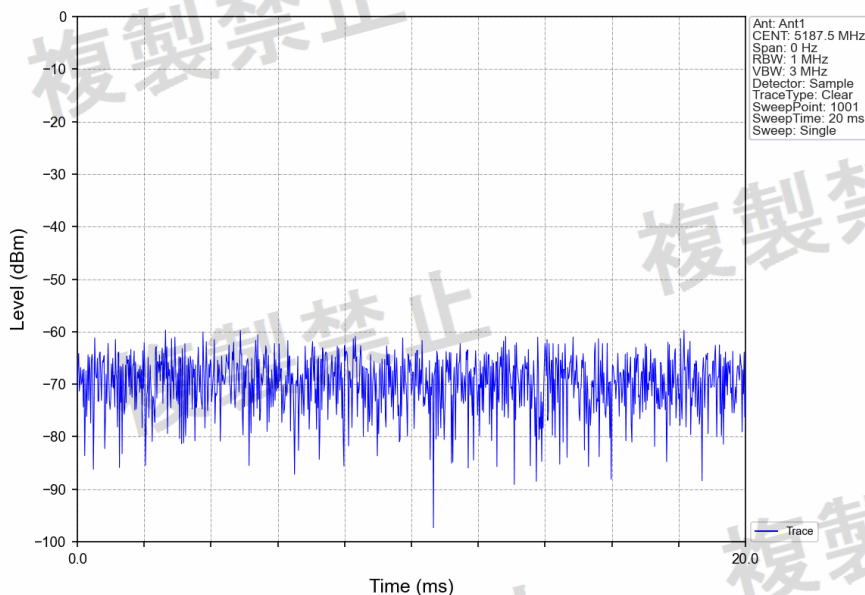
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



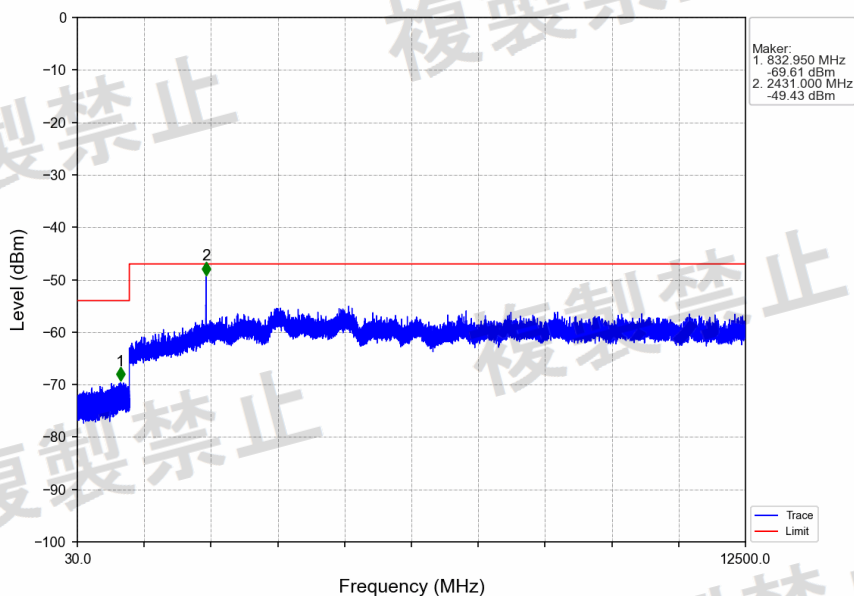
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTLV



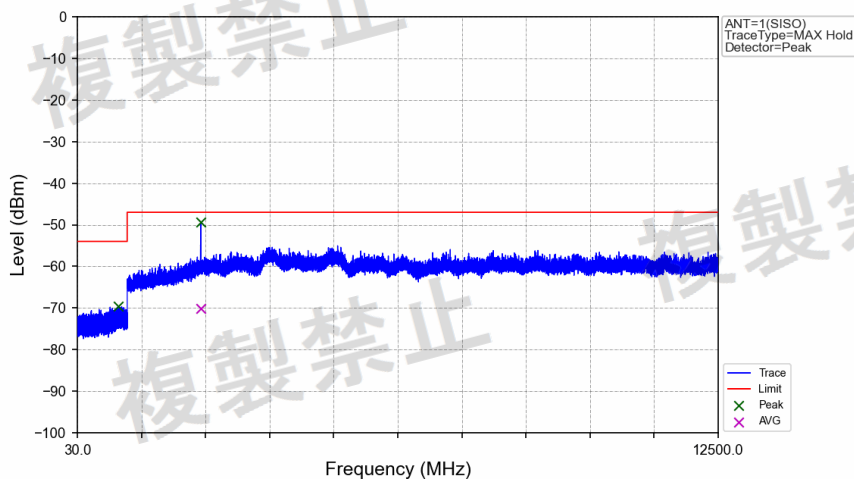
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8DPSK_3DH5_2402MHz_Ant1_NTLV



8DPSK_3DH5_2402MHz_Ant1_NTLV

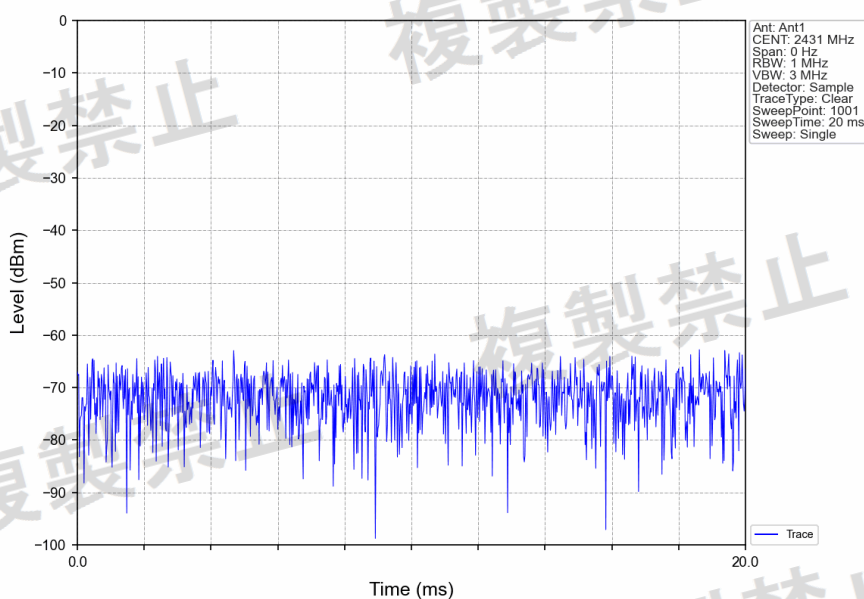


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	832.950	-69.61	/	-54	Pass
1000	12500	1	1	2431.000	-49.43	-70.04	-47	Pass

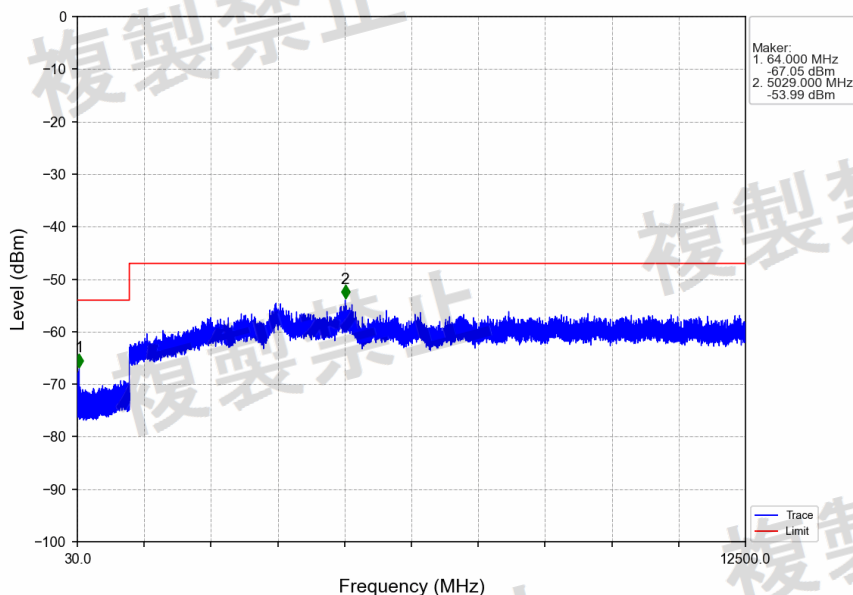
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8DPSK_3DH5_2402MHz_Ant1_NTLV



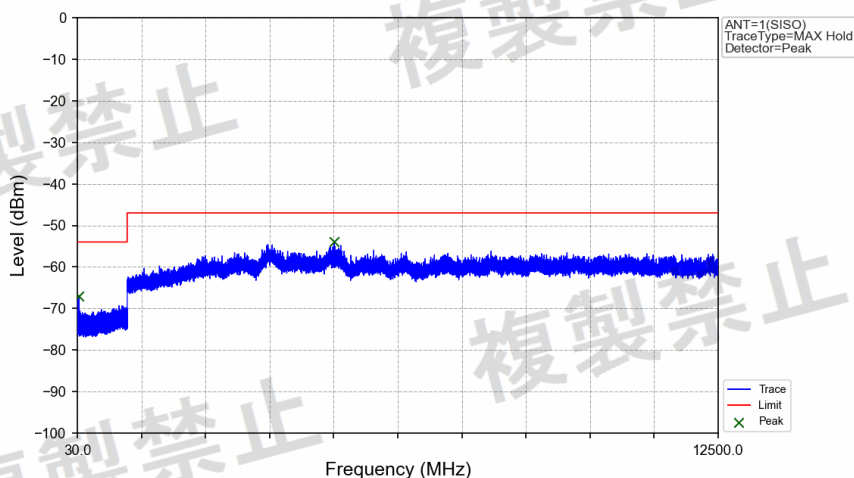
8DPSK_3DH5_2480MHz_Ant1_NTLV



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8DPSK_3DH5_2480MHz_Ant1_NTLV



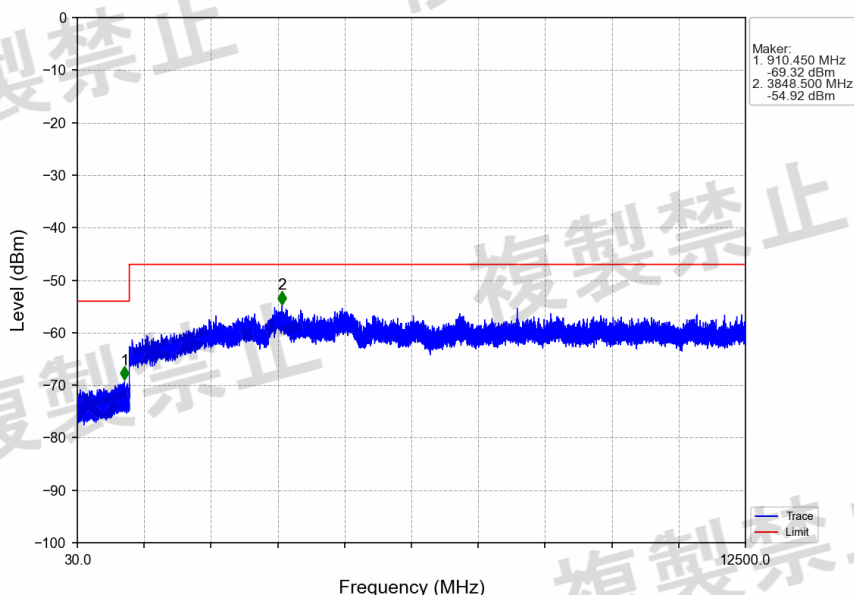
Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	64.000	-67.05	/	-54	Pass
1000	12500	1	1	5029.000	-53.99	/	-47	Pass

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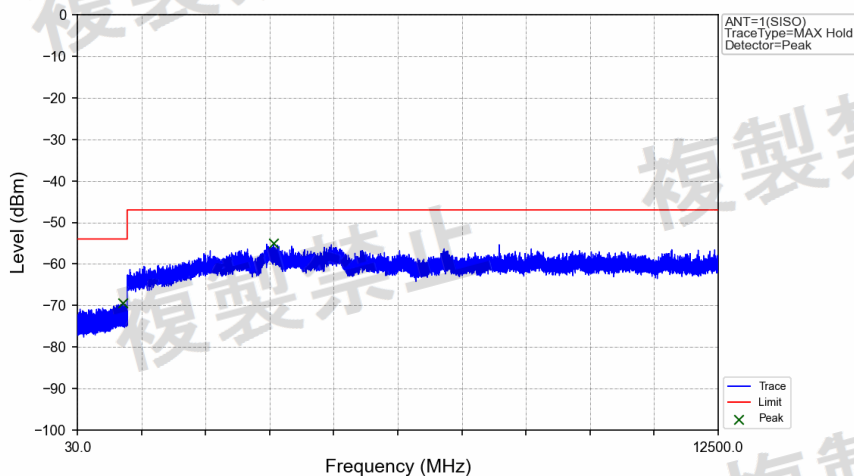
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7.2.3 RxSe_NTHV

GFSK_DH5_2402MHz_Ant1_NTHV



GFSK_DH5_2402MHz_Ant1_NTHV

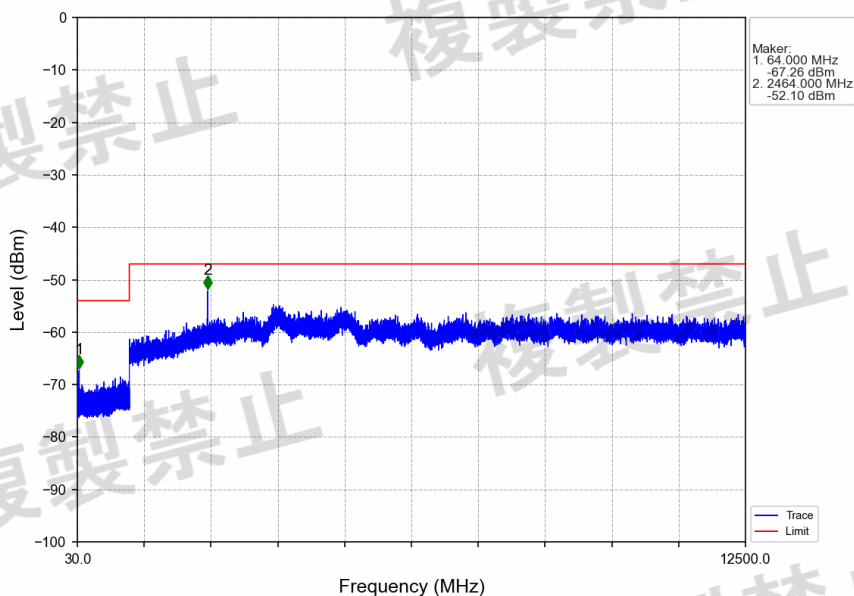


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	910.450	-69.32	/	-54	Pass
1000	12500	1	1	3848.500	-54.92	/	-47	Pass

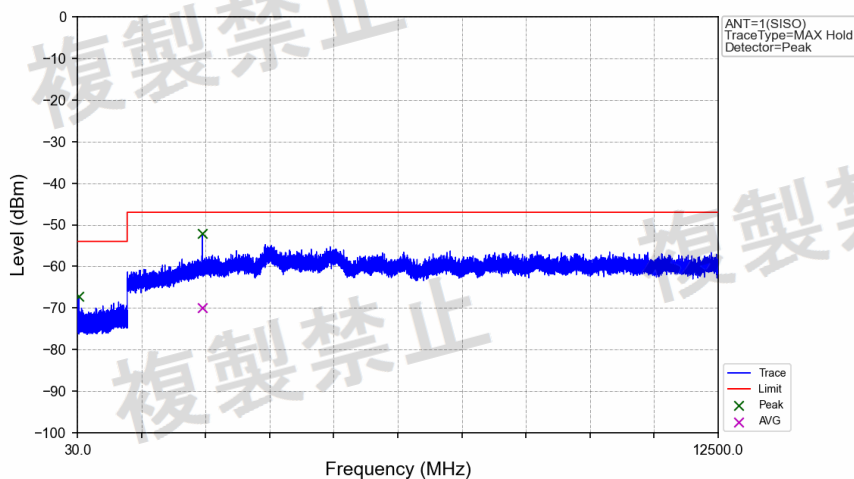
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GFSK_DH5_2480MHz_Ant1_NTHV



GFSK_DH5_2480MHz_Ant1_NTHV

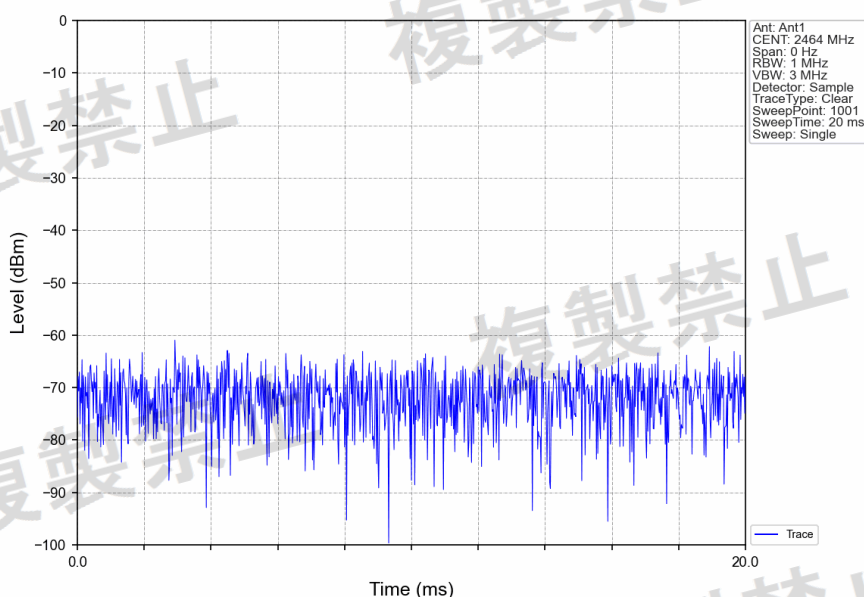


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	64.000	-67.26	/	-54	Pass
1000	12500	1	1	2484.000	-52.10	-69.93	-47	Pass

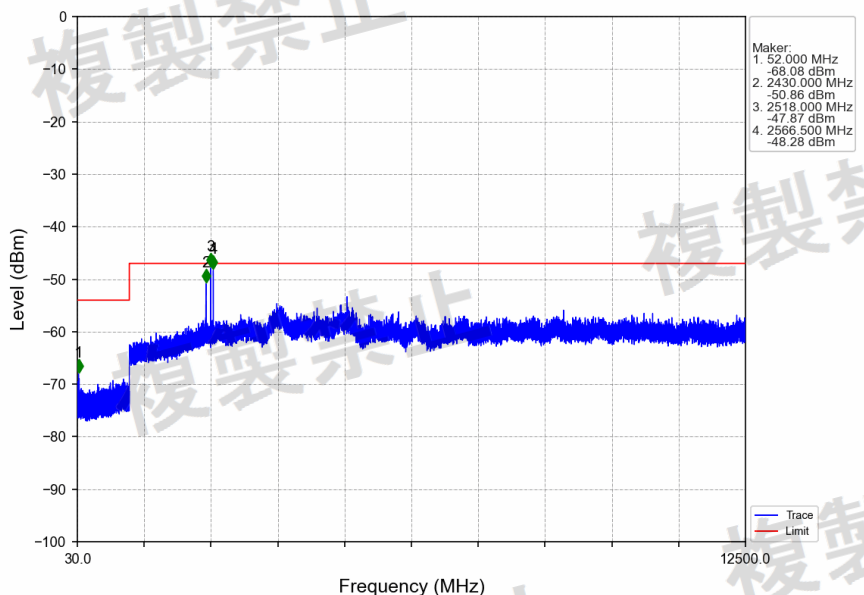
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GFSK_DH5_2480MHz_Ant1_NTHV



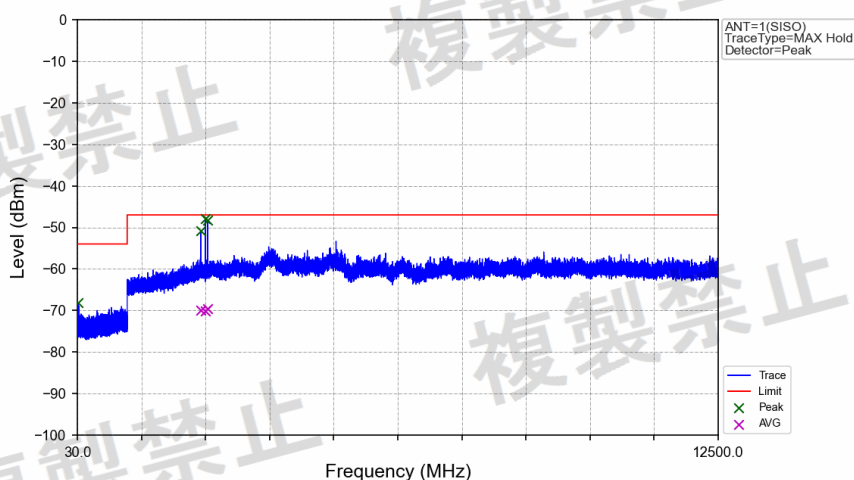
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



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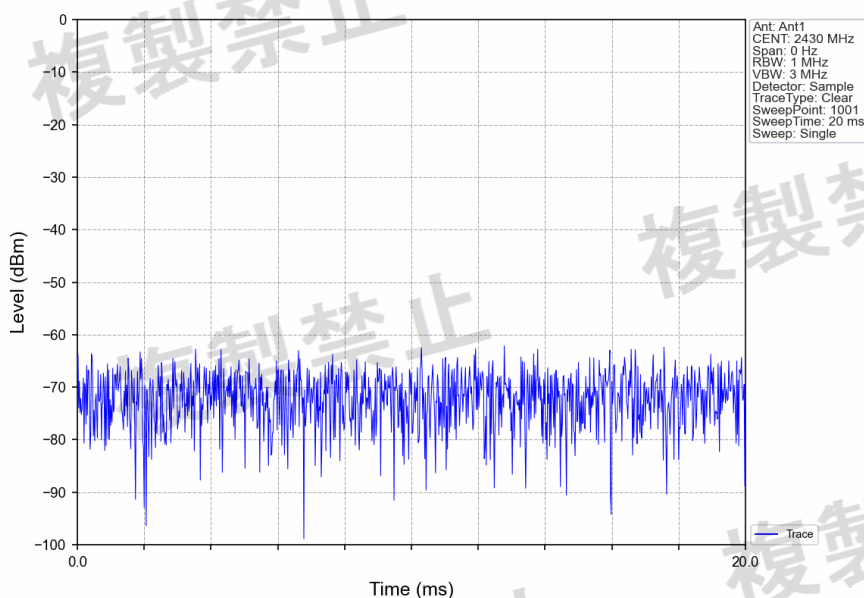
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



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	52.000	-68.08	/	-54	Pass
1000	12500	1	1	2430.000	-50.86	-69.96	-47	Pass
1000	12500	1	1	2518.000	-47.87	-70.07	-47	Pass
1000	12500	1	1	2566.500	-48.28	-69.65	-47	Pass

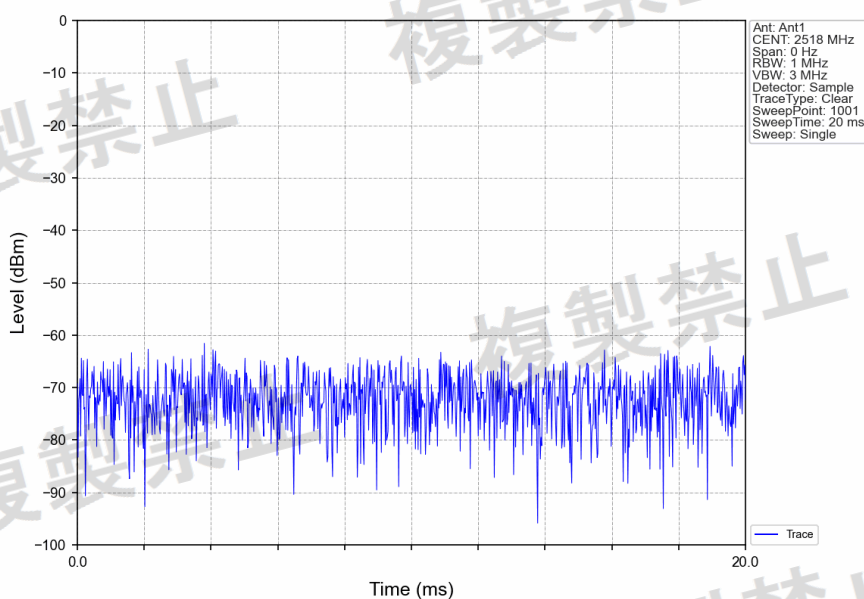
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



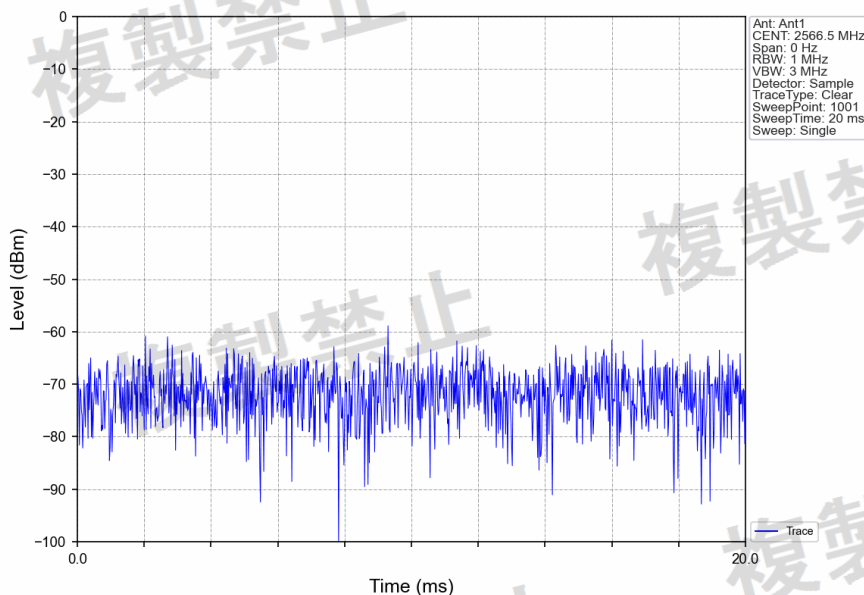
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Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



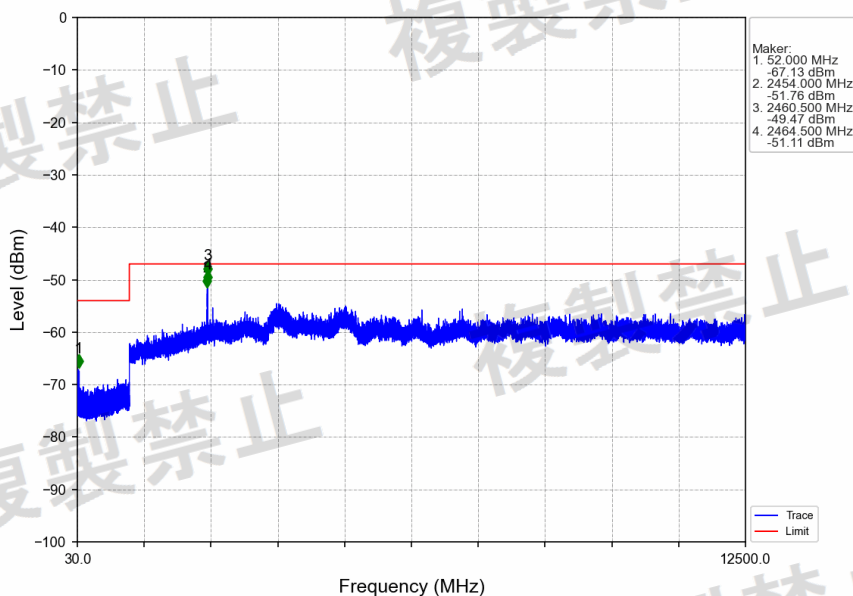
Pi/4DQPSK_2DH5_2402MHz_Ant1_NTHV



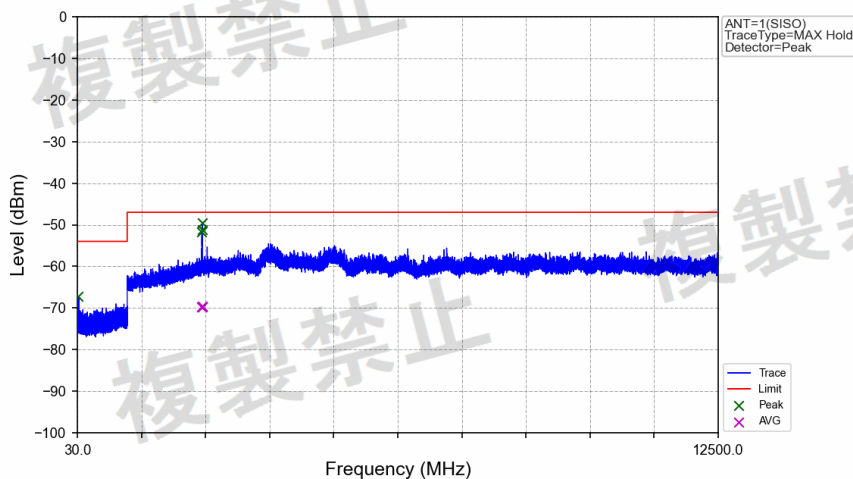
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV

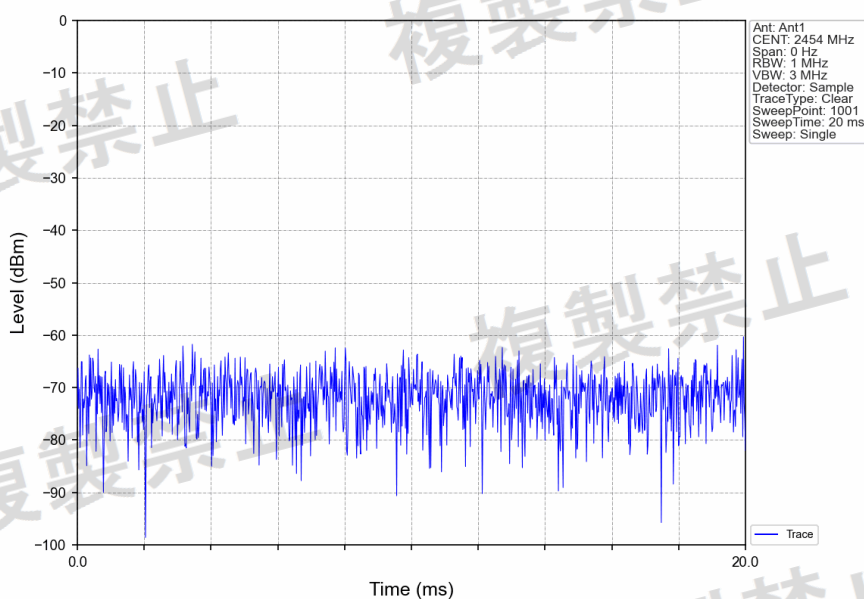


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	52.000	-67.13	/	-54	Pass
1000	12500	1	1	2454.000	-51.76	-69.83	-47	Pass
1000	12500	1	1	2460.500	-49.47	-69.80	-47	Pass
1000	12500	1	1	2464.500	-51.11	-69.55	-47	Pass

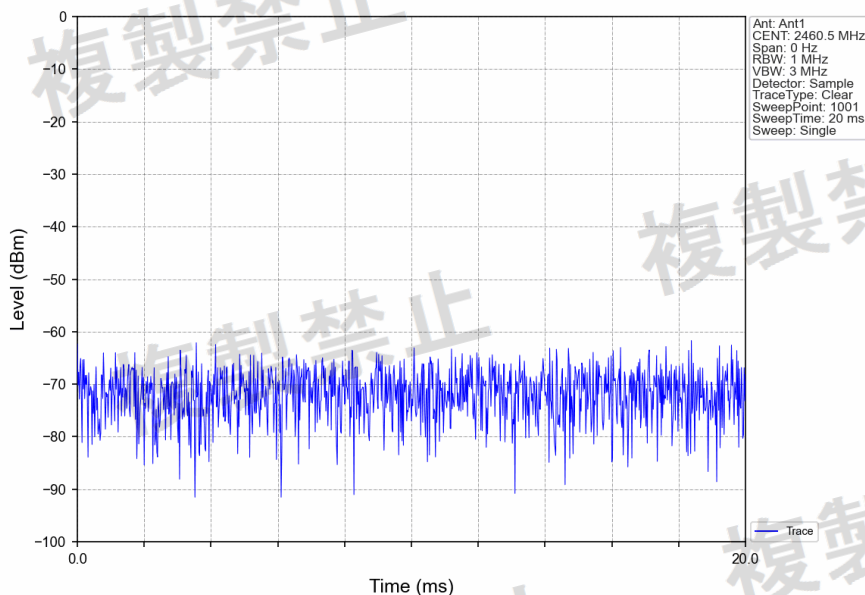
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



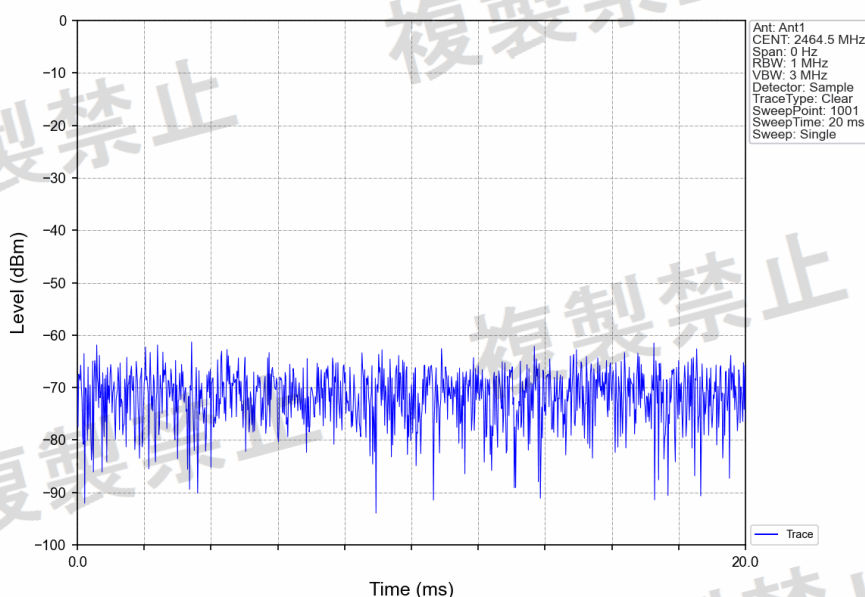
Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



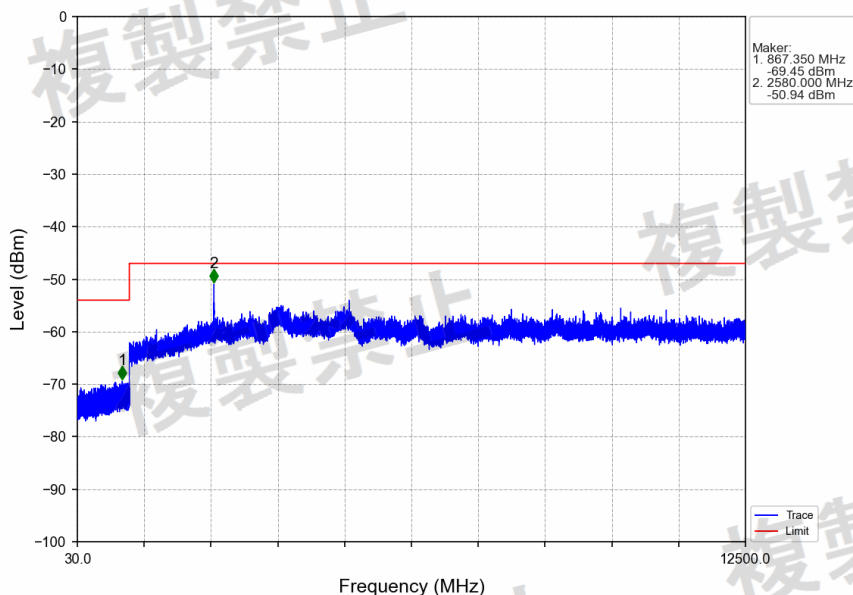
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Pi/4DQPSK_2DH5_2480MHz_Ant1_NTHV



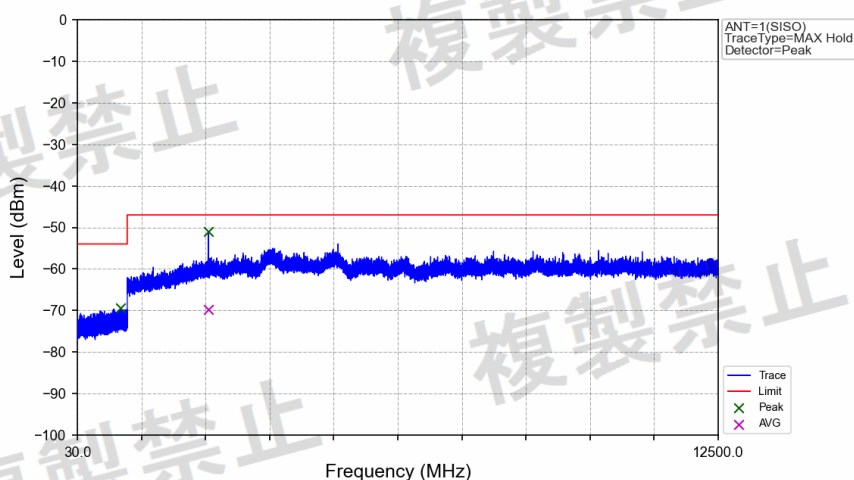
8DPSK_3DH5_2402MHz_Ant1_NTHV



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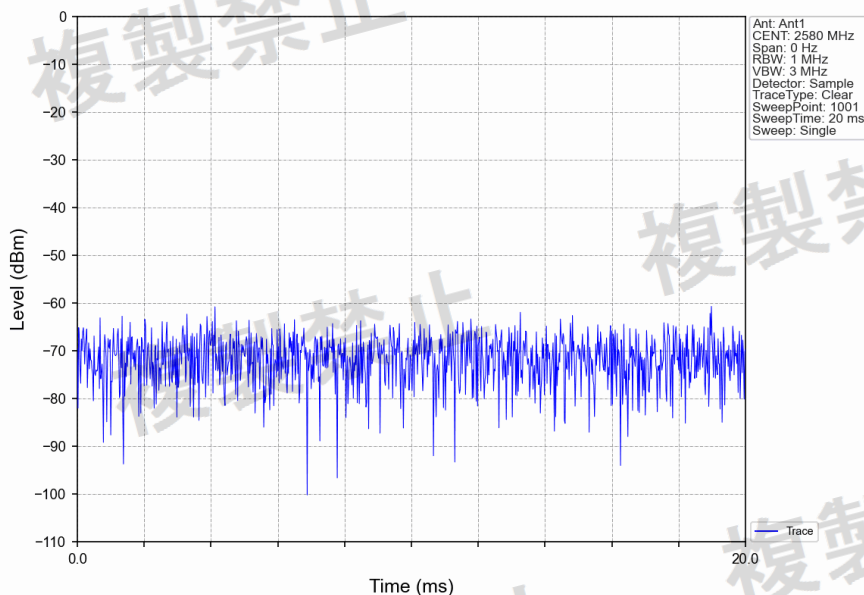
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8DPSK_3DH5_2402MHz_Ant1_NTHV



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	867.350	-69.45	/	-54	Pass
1000	12500	1	1	2580.000	-50.94	-69.71	-47	Pass

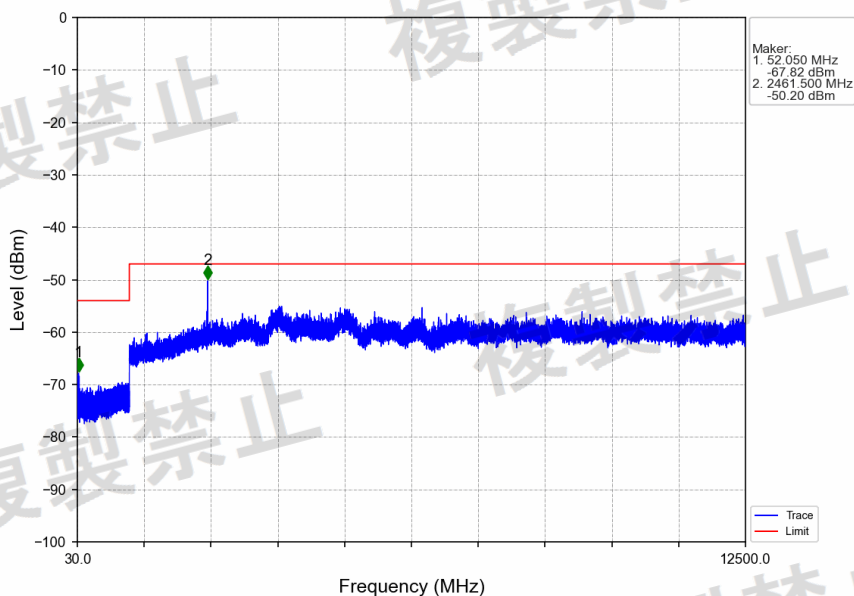
8DPSK_3DH5_2402MHz_Ant1_NTHV



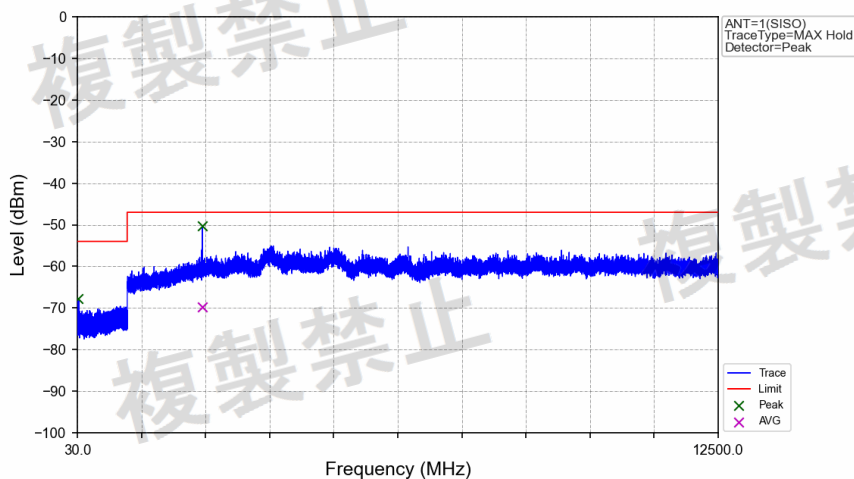
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8DPSK_3DH5_2480MHz_Ant1_NTHV



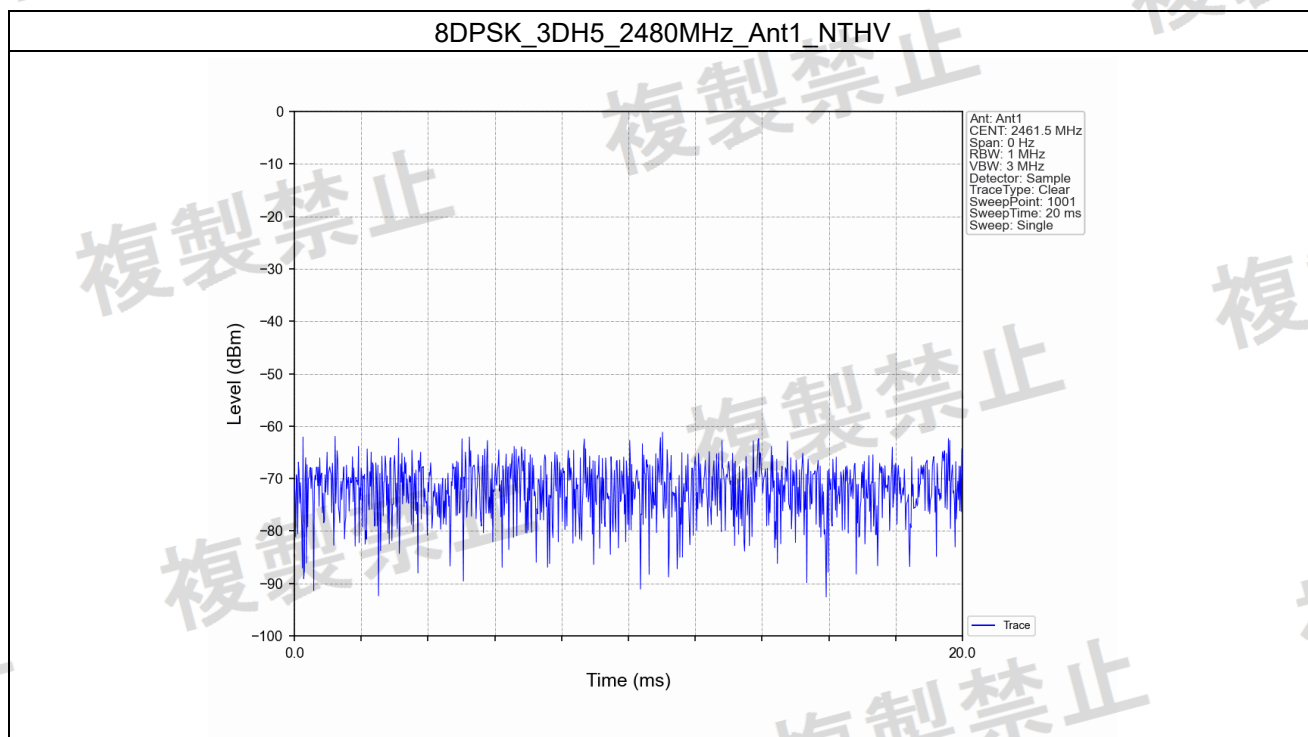
8DPSK_3DH5_2480MHz_Ant1_NTHV



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	52.050	-67.82	/	-54	Pass
1000	12500	1	1	2461.500	-50.20	-69.84	-47	Pass

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- End of the Report -

