

TEST REPORT

Application No.: SZCR2502000566MO
Applicant: Qualcomm Technologies, Inc.
Address of Applicant: 5775 Morehouse Dr. San Diego CA 92121 United States Of America
Manufacturer: Qualcomm Technologies, Inc.
Address of Manufacturer: 5775 Morehouse Dr. San Diego CA 92121 United States Of America
Factory: Fuyu Precision Component Company Limited.
Address of Factory: Lot M1, Lot F and Lot T1, Quang Chau Industrial Zone, Van Trung Ward, Viet Yen Town, Bac Giang Province, 26171, Vietnam

Equipment Under Test (EUT):

EUT Name: Tri-Radio LGA Module for IoT applications
Model No.: QCC743M-1
Trade Mark: Qualcomm
Standard(s) : MIC Item 19 of Article 2 Paragraph 1
Test Method: MIC Notice No.88 Appendix No.43
Date of Receipt: 2025-02-18
Date of Test: 2025-03-08 to 2025-05-30
Date of Issue: 2025-06-03

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


Keny Xu
EMC Laboratory Manager



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

SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-06-03		Original

Authorized for issue by:			
		Calvin Weng	
		Calvin Weng/Project Engineer	
		Eric Fu	
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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SZEMC) Laboratory

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2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Frequency Error	MIC Item 19 of Article 2 Paragraph 1	MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Occupied Bandwidth(99%)		MIC Notice No.88 Appendix No.43	MIC Item 19 of Article 2 Paragraph 1	Pass
Antenna Power		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

Declaration of EUT Family Grouping:

Model No.: QCC743M-1

SKU: QCC743M-1B, QCC743M-1U, QCC743M-1P

Only the model QCC743M-1 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on antenna design & model name.

	PCB Antenna SKU	External Antenna SKU	RF pad SKU
	Regulatory model for PCB printed antenna	Regulatory model for Antenna connector .(U.FL connector) on board	Regulatory model has RF pad connect to external PCB which has PCB ANT or RF connector
QCC743M-1	QCC743M-1B	QCC743M-1U	QCC743M-1P
General Model Name	Variant Model Name	Variant Model Name	Variant Model Name



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.3V
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	2402MHz to 2480MHz
Test Data Rate:	125K/500K/1M/2M
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Dipole antenna, Monopole antenna, PIFA antenna, PCB antenna
Antenna Gain:	Dipole:3.37dBi; Monopole: 3.12dBi; PIFA: 3.19dBi; PCB: 2.49dBi
Rated Power:	7mW

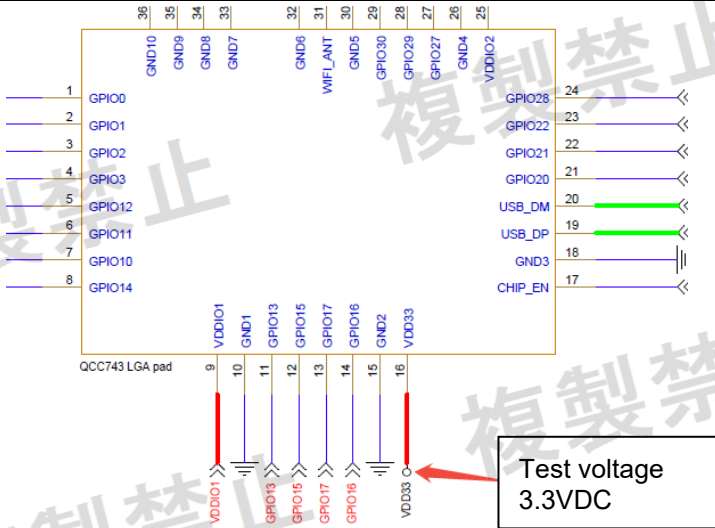
Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Test Conditions

Power Supply									
	The RF unit is supplied DC3.3V. The fluctuation of input voltage to the circuit of RF unit of test equipment is under $\pm 1\%$, when input voltage from DC5V to the test equipment is fluctuated by $\pm 10\%$, So, all measurement has been conducted by only rated voltage.								
	The measurement result of the voltage fluctuation at RF circuit when DC5.00V +/- 10%.								
	<table><tr><td>DC Input</td><td>DC3V30</td></tr><tr><td>5.5V</td><td>3.30V</td></tr><tr><td>5.0V</td><td>3.30V</td></tr><tr><td>4.5V</td><td>3.30V</td></tr></table>	DC Input	DC3V30	5.5V	3.30V	5.0V	3.30V	4.5V	3.30V
DC Input	DC3V30								
5.5V	3.30V								
5.0V	3.30V								
4.5V	3.30V								

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Temperature:	0 -45.0 °C
Humidity:	45-85 % RH
Atmospheric Pressure:	1000 -1010 mbar
	Note: VN: Normal Voltage TN: Normal Temperature TL: Low Extreme Test Temperature TH: High Extreme Test Temperature
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.

4.3 Description of Support Units

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

4.4 Measurement Uncertainty

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



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4.5 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053

Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

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

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

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

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

- **FCC –Designation Number: CN1336**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



5 Equipment List

Equipment list								
Equipment	Manufacturer	Model No	Serial No	Inventory No	Cal Date	Cal Due Date	Calibration body	Classification
DC Power Supply	Chroma	62012P-80-60	62012PD 01784	SEM011-11	2024-08-14	2025-08-13	GRGTES T	(c)
MXA Signal Analyzer	KEYSIGHT	N9020A	MY53300 619	SEM004-21	2025-03-04	2026-03-03	CEPREI	(c)
MXA Signal Analyzer	KEYSIGHT	N9010B	MY57471 576	SEM004-27	2024-09-14	2025-09-13	CEPREI	(c)
Signal Generator (9kHz-40GHz)	KEYSIGHT	N5173B	MY53270 267	SEM006-05	2024-09-14	2025-09-13	CEPREI	(c)
Multimeter	FLUKE	Fluke 87	2790000 2	SEM022-07	2025-02-26	2026-02-25	SGS	(c)
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	152272	SEM010-03	2025-03-03	2026-03-02	CEPREI	(c)
Humidity/Temperature Indicator	Deli	8838	N/A	SEM002-44	2024-07-24	2025-07-23	SGS	(c)
Barometer	Changchun Meteorological Industry Factory	DYM3	0026	SEM002-01	2025-03-03	2026-03-02	CEPREI	(c)
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A	N/A	N/A	N/A
Remark: (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) in Japan (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1) in JRL. (b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act No. 51 of 1992). (c) Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1). (d) Calibration, etc. conducted by using measuring instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (a) to (c). From JRL Article 24-2, paragraph 4, Item 2								

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.1.2 Conclusion

Standard requirement:

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

EUT Details:

The antenna is integrated on the main PCB and no consideration of replacement.

The best case gain of the antenna are Dipole:3.37dBi; Monopole: 3.12dBi; PIFA: 3.19dBi, PCB antenna: 2.49dBi.

Result:



RF antenna connector

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

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6.2 Interference prevention capability

6.2.1 Test Requirement:

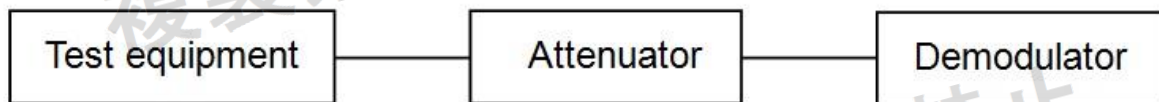
MIC Item 19 of Article 2 Paragraph 1

Limit:

Article 2, Item (19) Notice 88 Appendix 43

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.

6.2.2 Test Setup Diagram



6.2.3 Conclusion

Standard Requirement:

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

EUT Details:

d8:b3:2f:66:a7:57

The unit does meet the requirements (Good).



6.3 RF accessibility

6.3.1 Test Requirement:

MIC Item 19 of Article 2 Paragraph 1

6.3.2 Conclusion

Standard Requirement:

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

EUT Details:



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.



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: $\pm 50\text{E-6}$

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.6 °C

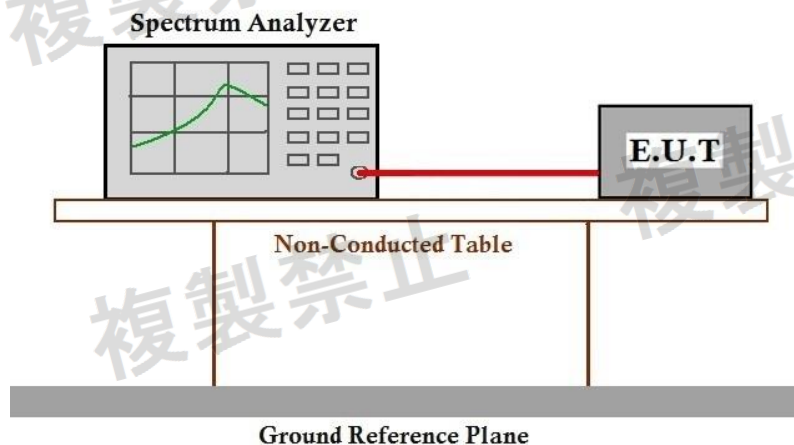
Humidity: 46.7 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

7.1.3 Test Setup Diagram



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7.1.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping OFF, CW Tx

3. Spectrum Analyzer conditions:

Frequency: Test Frequency

Span 1MHz

RBW 10 kHz (Modulation OFF),

VBW 10 kHz (Modulation OFF),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Alternative method:

Frequency: Test Frequency

Span 2 times channel bandwidth

RBW 100 kHz (Modulation ON),

VBW 100 kHz (Modulation ON),

Sweep Time Auto

Detector mode Positive peak

Indication mode Max hold

Please Refer to Appendix for Details



7.2 Occupied Bandwidth(99%)

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

Limit:

FH: 83.5MHz or less

OFDM: 40MHz or less

Others: 26MHz or less

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

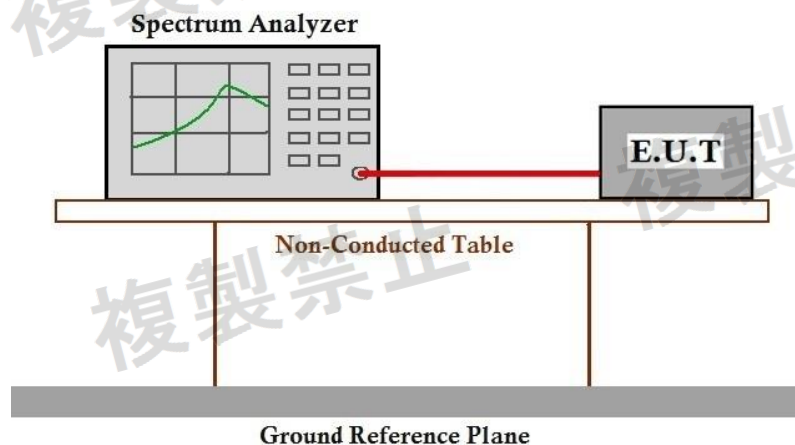
Humidity: 46.7 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_ Keep the EUT in continuously transmitting mode with GFSK modulation

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 Antenna Power

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%, -80%

7.3.1 E.U.T. Operation

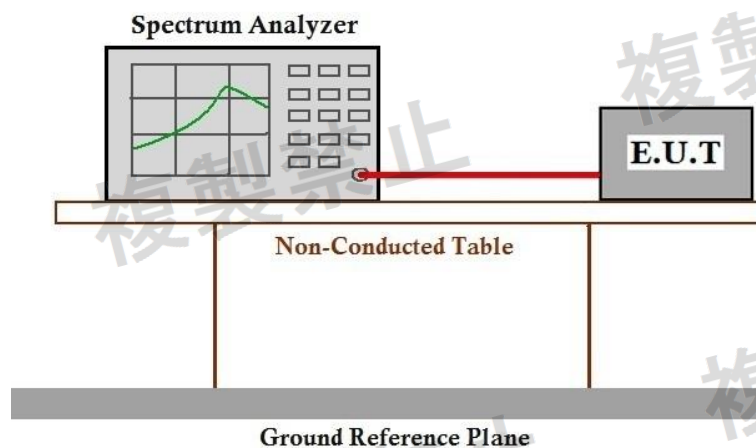
Operating Environment:

Temperature: 24.7 °C Humidity: 46.7 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

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 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



7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C

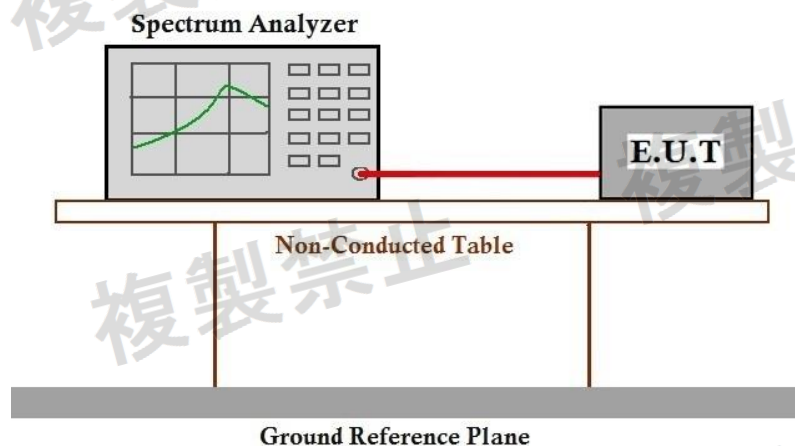
Humidity: 46.7 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	02	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation

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:

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



7.5 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

7.5.1 E.U.T. Operation

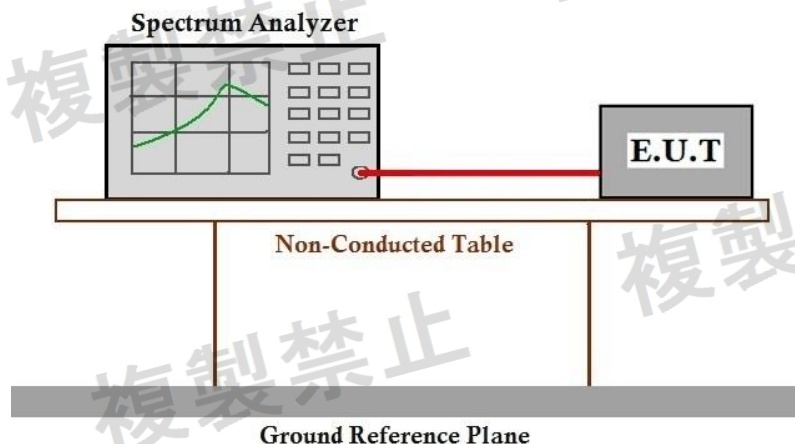
Operating Environment:

Temperature: 24.7 °C Humidity: 46.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

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

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

1. Test Conditions:

Spectrum Analyzer is used for measurement.

2. EUT conditions:

Modulation/Spread/Hopping ON

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

3. Spectrum Analyzer conditions:

Step 1

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

Step 2

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

Test setup for Step 1:

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

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

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

Sweep Time Auto

detector mode Positive peak

Indication mode Max hold

Test setup for Step 2:

Frequency: Spurious Frequency

Span 0 Hz

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

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

Sweep Time Auto

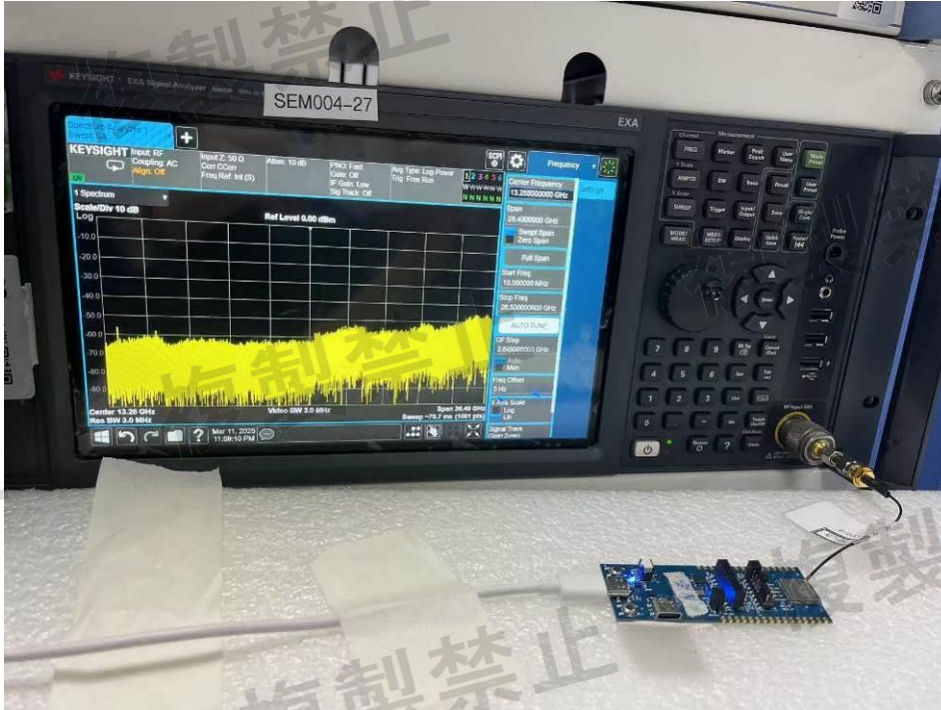
detector mode Sample

Indication mode Max hold

Please Refer to Appendix for Details



8 Test Setup Photo



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9 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photographs of EUT Constructional Details for SZCR2502000566MO



10 Appendix

1. Frequency Error

1.1 Test Result

1.1.1 Ant1

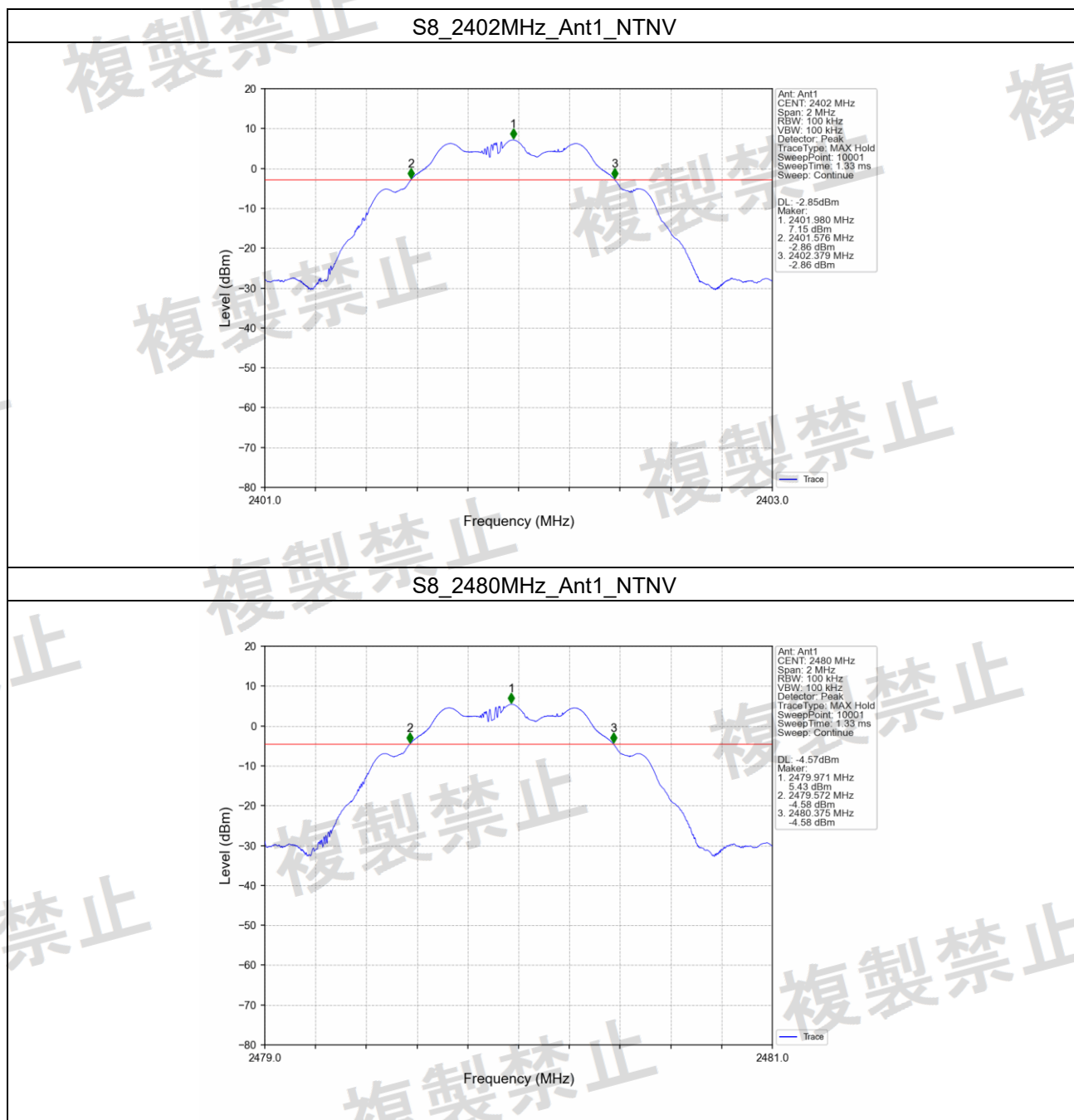
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	S8	SISO	2402	2401.977	-9.37	-50 to 50	Pass
			2480	2479.973	-10.85	-50 to 50	Pass
	S2	SISO	2402	2401.973	-11.16	-50 to 50	Pass
			2480	2479.964	-14.68	-50 to 50	Pass
	1M	SISO	2402	2401.991	-3.79	-50 to 50	Pass
			2480	2479.992	-3.31	-50 to 50	Pass
	2M	SISO	2402	2401.982	-7.58	-50 to 50	Pass
			2480	2479.981	-7.74	-50 to 50	Pass

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1.2 Test Graph

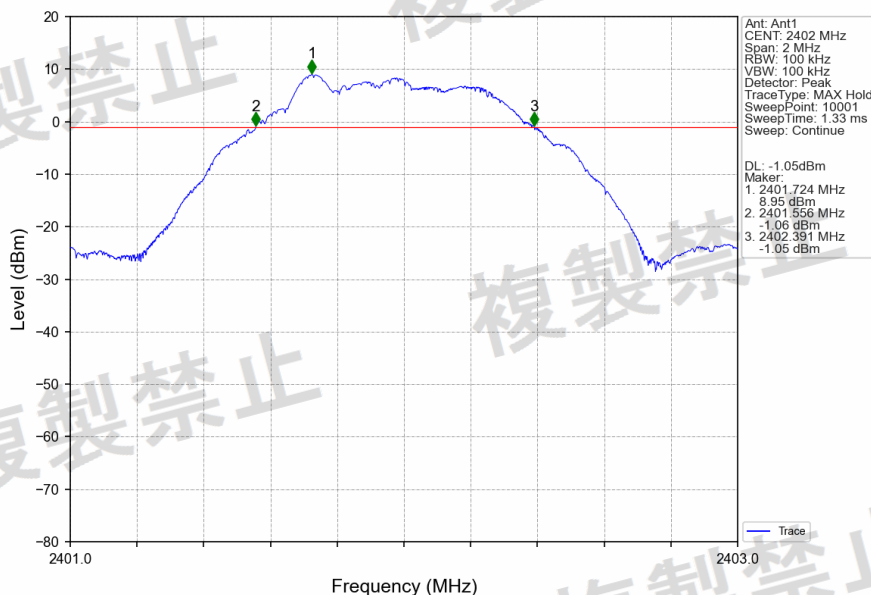
1.2.1 Ant1



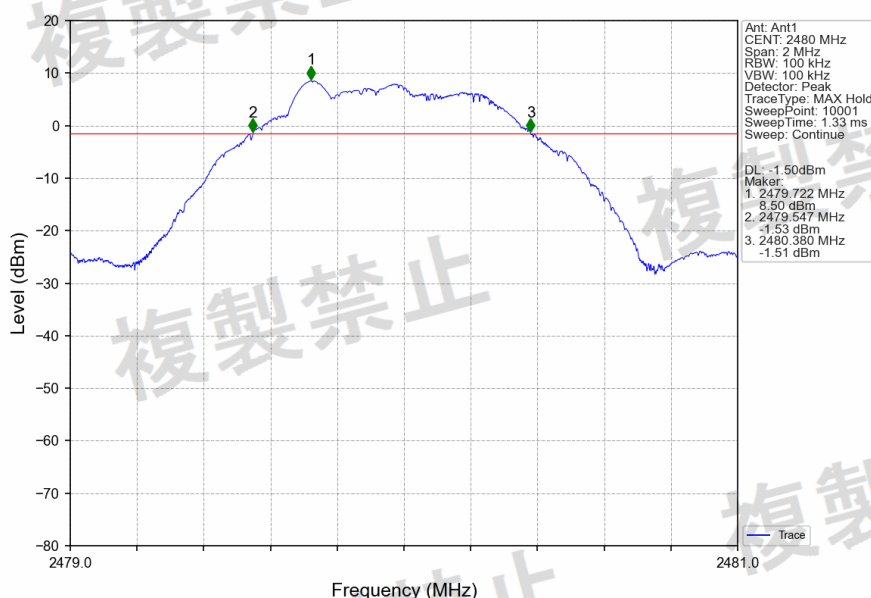
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S2_2402MHz_Ant1_NTNV



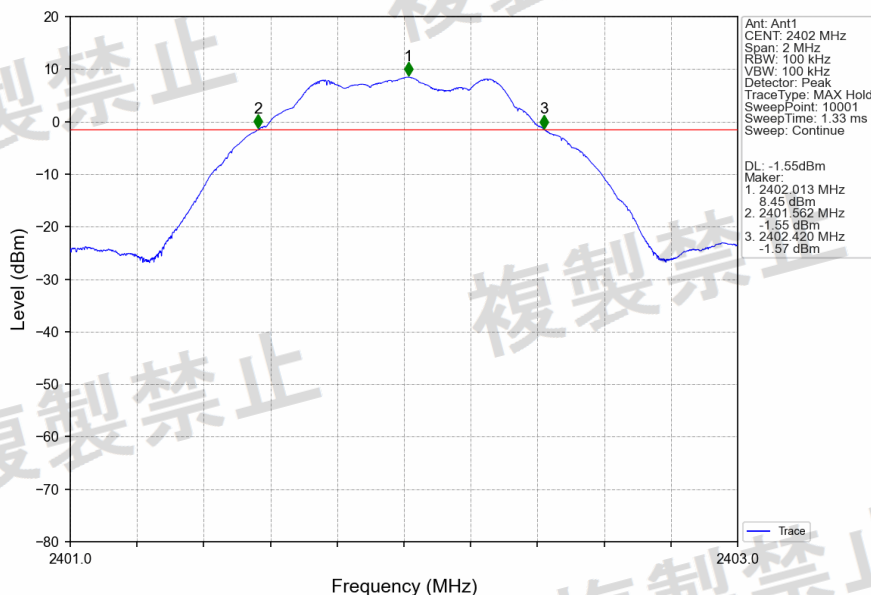
S2_2480MHz_Ant1_NTNV



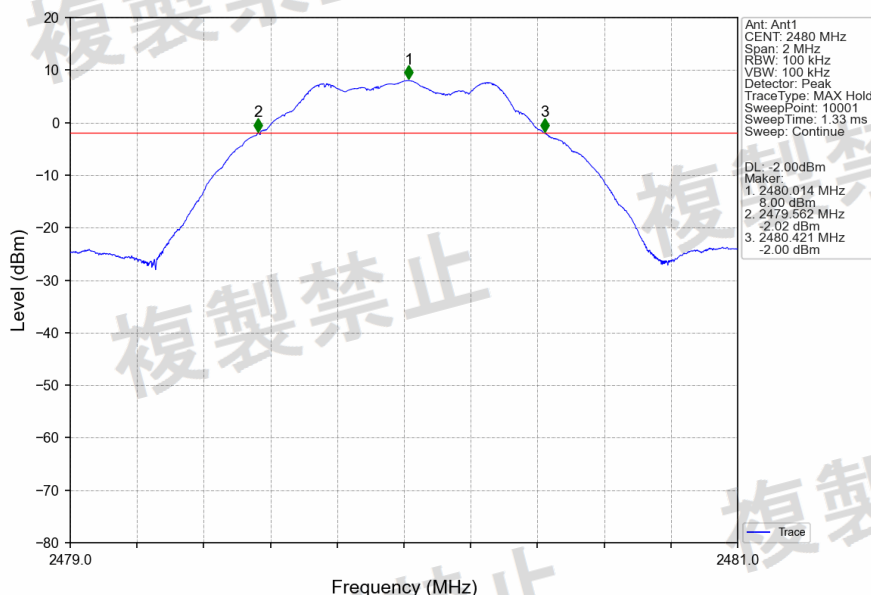
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1M_2402MHz_Ant1_NTNV



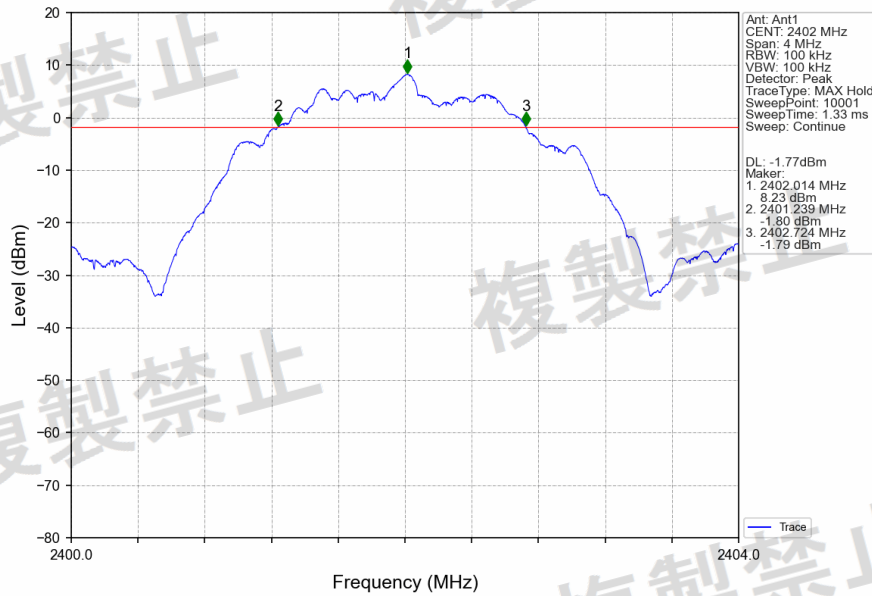
1M_2480MHz_Ant1_NTNV



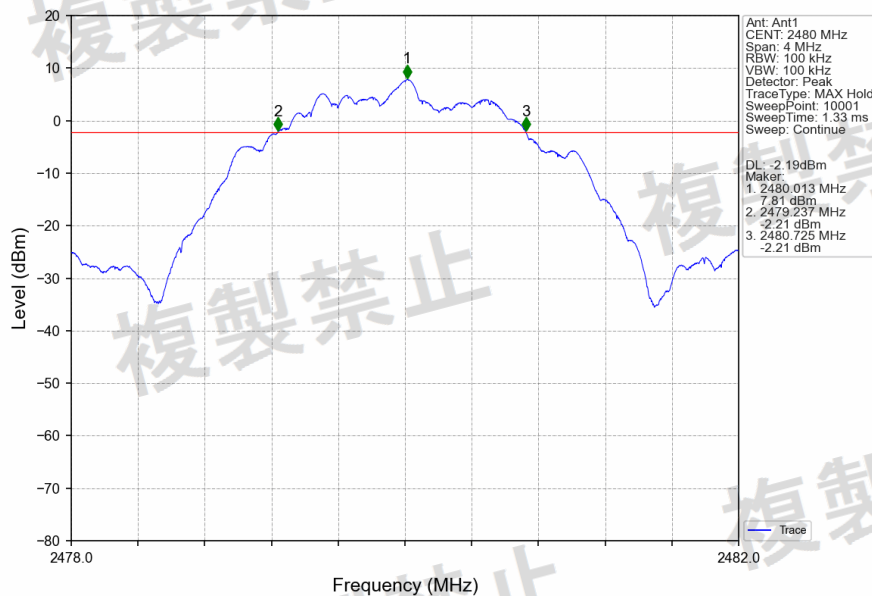
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2M_2402MHz_Ant1_NTNV



2M_2480MHz_Ant1_NTNV



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2. Occupied Bandwidth

2.1 Test Result

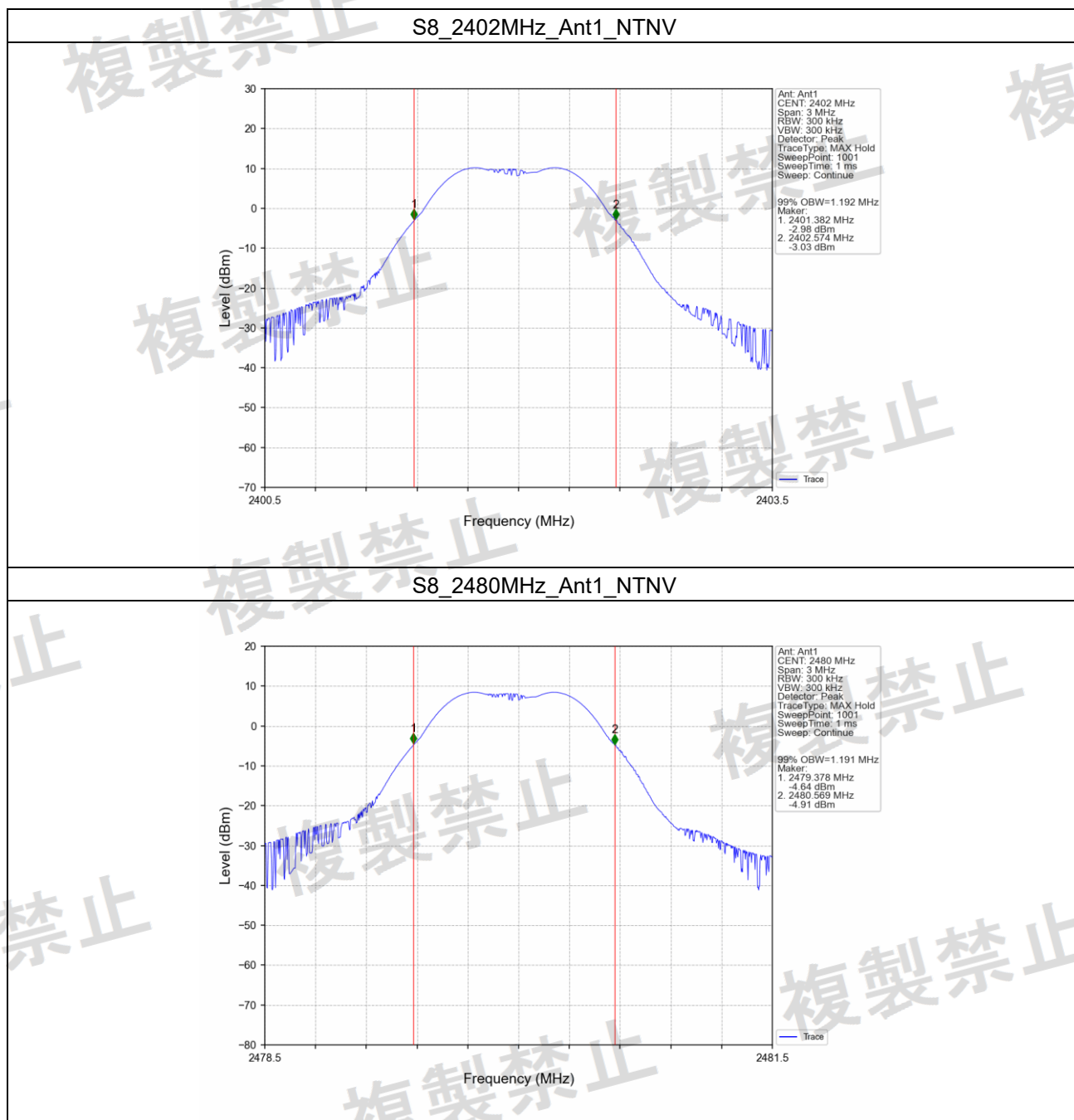
2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	S8	SISO	2402	1.192	≤ 26	Pass
			2480	1.191	≤ 26	Pass
	S2	SISO	2402	1.214	≤ 26	Pass
			2480	1.214	≤ 26	Pass
	1M	SISO	2402	1.215	≤ 26	Pass
			2480	1.214	≤ 26	Pass
	2M	SISO	2402	2.136	≤ 26	Pass
			2480	2.138	≤ 26	Pass



2.2 Test Graph

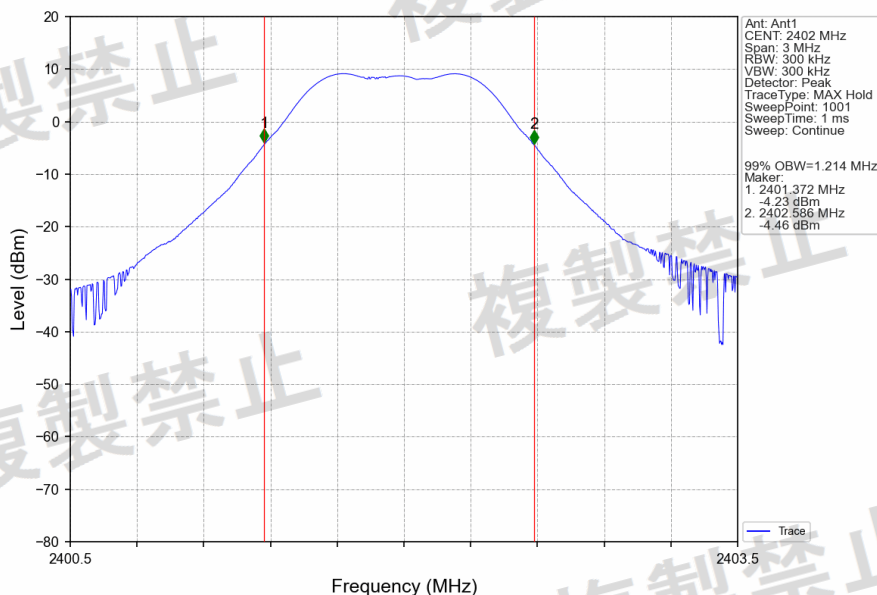
2.2.1 OBW



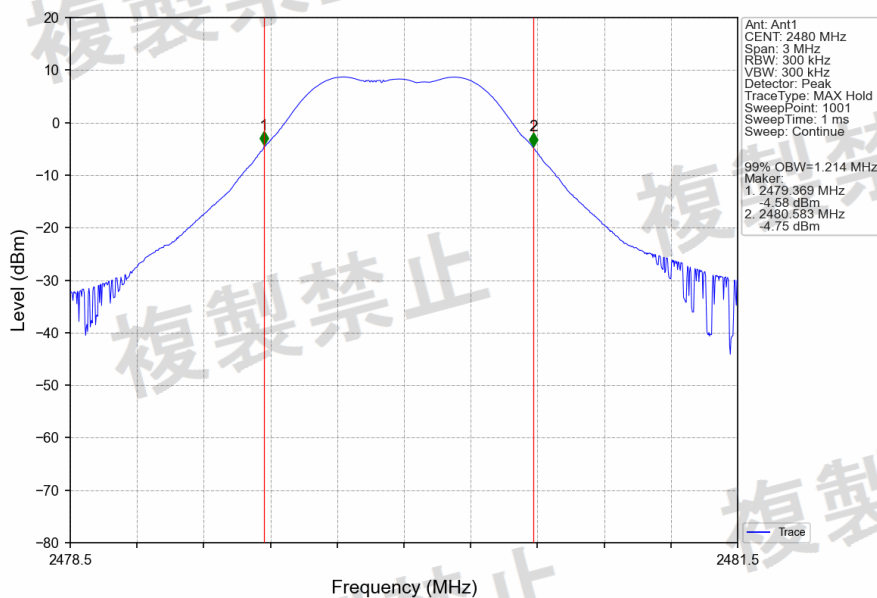
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S2_2402MHz_Ant1_NTNV



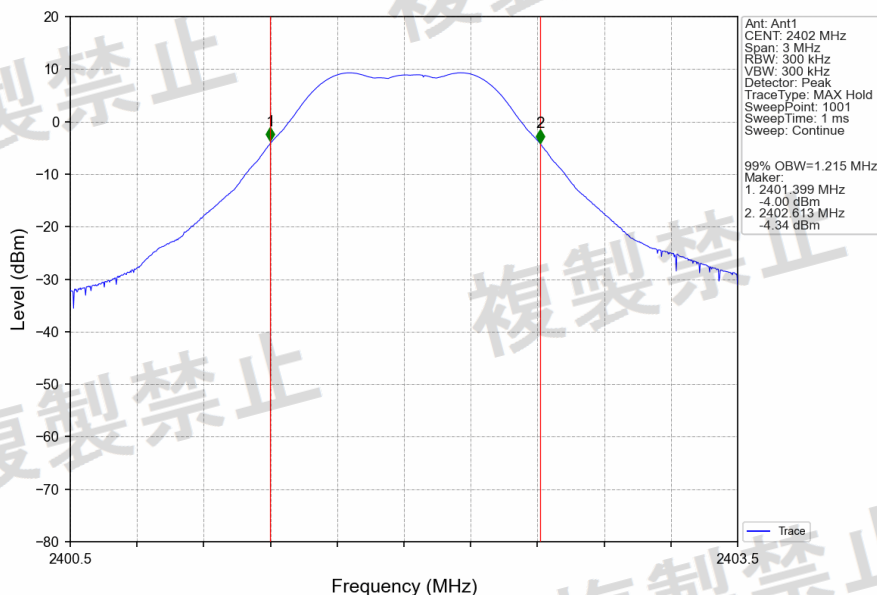
S2_2480MHz_Ant1_NTNV



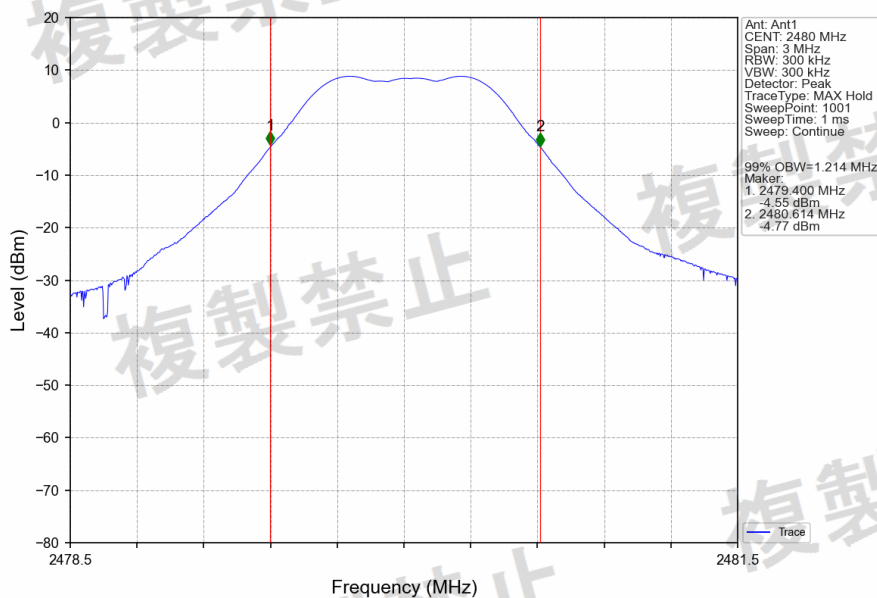
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1M_2402MHz_Ant1_NTNV



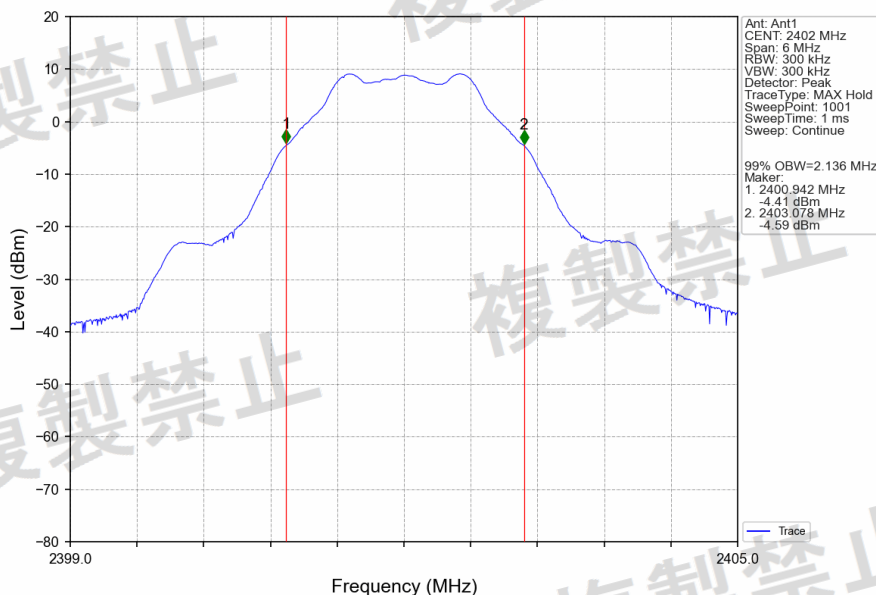
1M_2480MHz_Ant1_NTNV



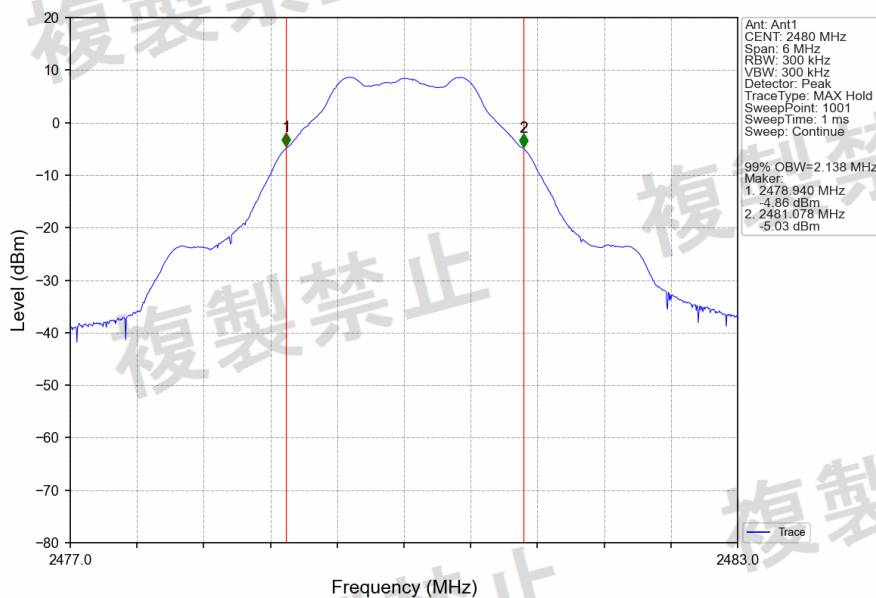
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2M_2402MHz_Ant1_NTNV



2M_2480MHz_Ant1_NTNV



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3. Antenna Power

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW)		Nominal Power (mW)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	S8	SISO	2402	1	7.068	<=10.00	7.000	0.97	<=20	Pass
			2480	1	6.692	<=10.00	7.000	-4.40	<=20	Pass
	S2	SISO	2402	1	6.694	<=10.00	7.000	-4.37	<=20	Pass
			2480	1	6.588	<=10.00	7.000	-5.89	<=20	Pass
	1M	SISO	2402	1	7.169	<=10.00	7.000	2.41	<=20	Pass
			2480	1	6.505	<=10.00	7.000	-7.07	<=20	Pass
	2M	SISO	2402	1	7.094	<=10.00	7.000	1.34	<=20	Pass
			2480	1	6.078	<=10.00	7.000	-13.17	<=20	Pass

3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (mw)		Verdict
						Result	Limit	
NTNV	S8	SISO	2402	1	3.37	15.346	<=16.368	Pass
			2480	1	3.37	14.555	<=16.368	Pass
	S2	SISO	2402	1	3.37	14.521	<=16.368	Pass
			2480	1	3.37	14.322	<=16.368	Pass
	1M	SISO	2402	1	3.37	15.560	<=16.368	Pass
			2480	1	3.37	14.125	<=16.368	Pass
	2M	SISO	2402	1	3.37	15.417	<=16.368	Pass
			2480	1	3.37	13.213	<=16.368	Pass

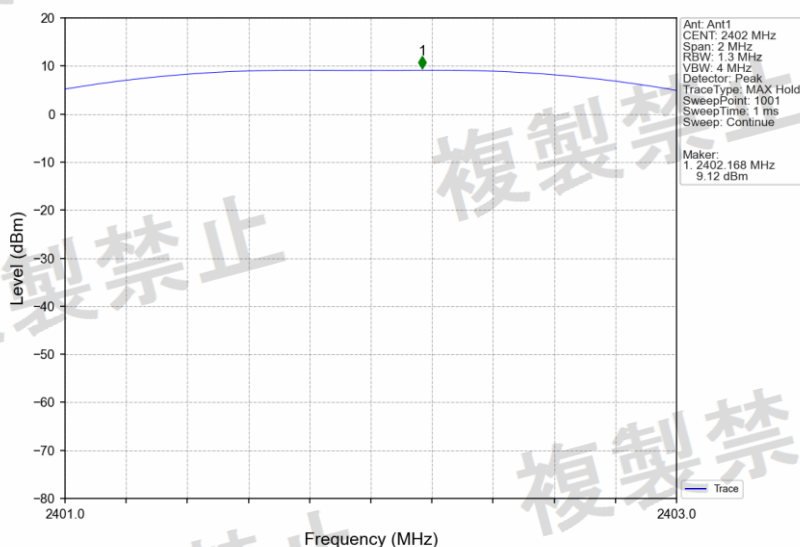
Remark: only recorded the highest EIRP.



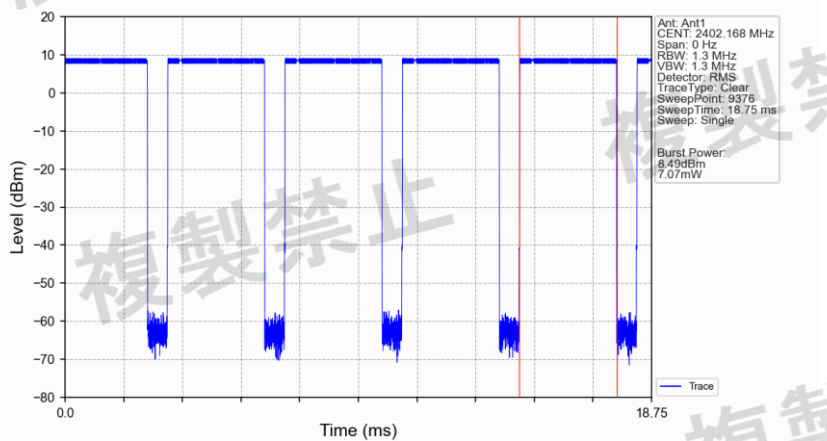
3.2 Test Graph

3.2.1 Power

S8_2402MHz_Ant1_NTNV



S8_2402MHz_Ant1_NTNV

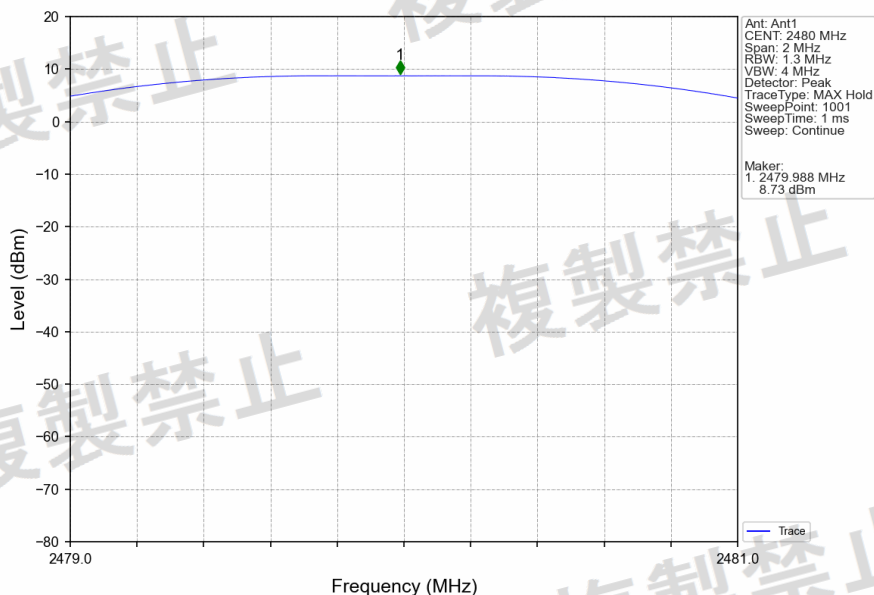


Burst No.	1	2	3	4
Length (ms)	3.120	3.120	3.120	3.120
Power (dBm)	8.49	8.49	8.49	8.49
Power (mW)	7.065	7.065	7.066	7.068
Remark	/	/	/	Max

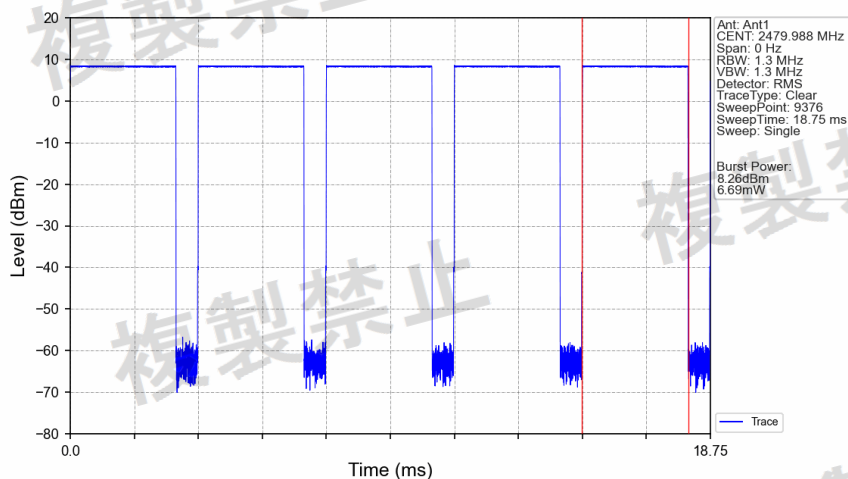
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S8_2480MHz_Ant1_NTNV



S8_2480MHz_Ant1_NTNV

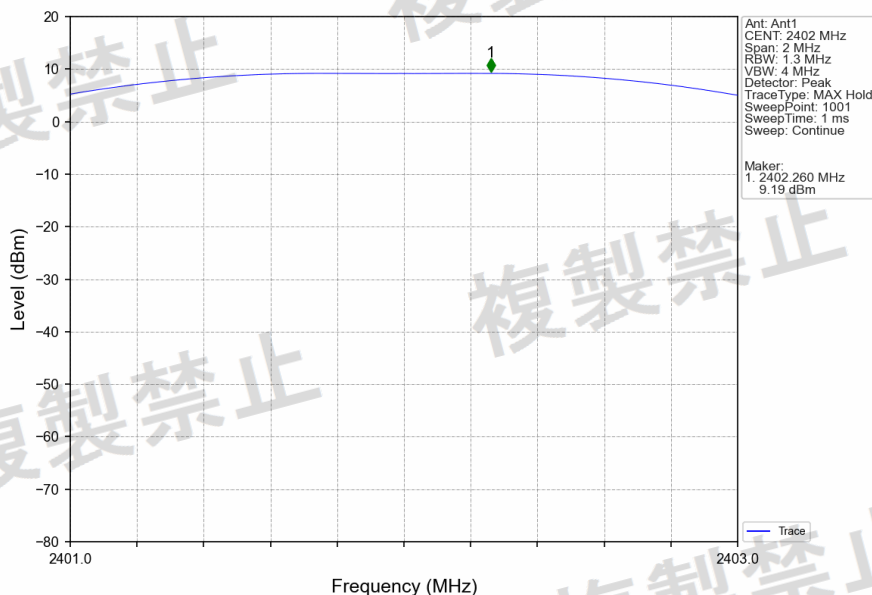


Burst No.	1	2	3	4
Length (ms)	3.120	3.120	3.120	3.120
Power(dBm)	8.25	8.25	8.25	8.26
Power(mW)	6.690	6.688	6.691	6.692
Remark	/	/	/	Max

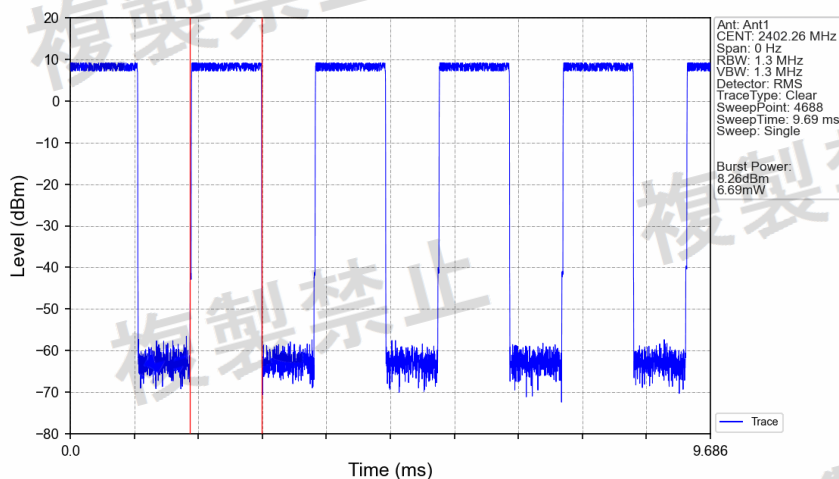
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S2_2402MHz_Ant1_NTNV



S2_2402MHz_Ant1_NTNV

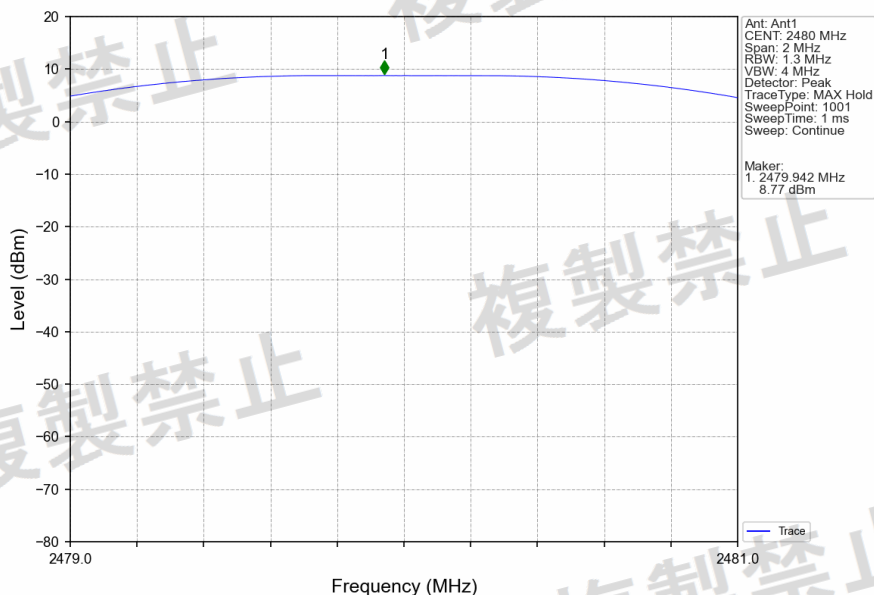


Burst No.	1	2	3	4
Length (ms)	1.085	1.085	1.087	1.087
Power(dBm)	8.26	8.26	8.25	8.25
Power(mW)	6.694	6.692	6.682	6.684
Remark	Max	/	/	/

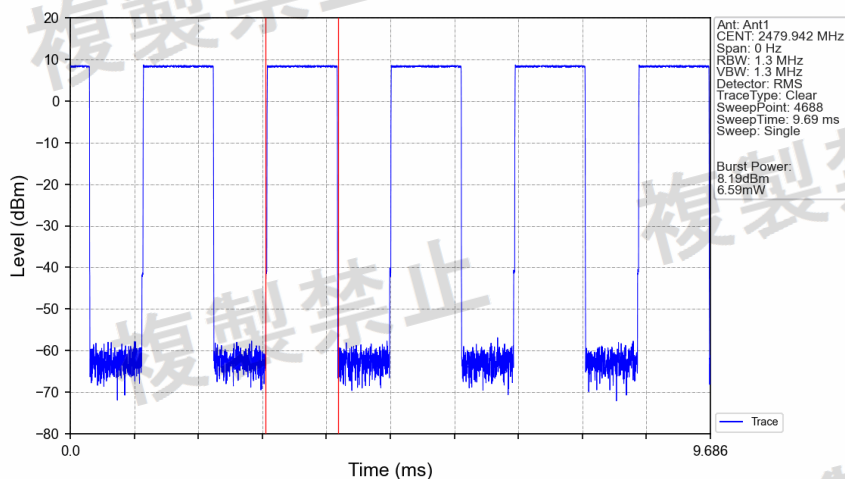
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S2_2480MHz_Ant1_NTNV



S2_2480MHz_Ant1_NTNV

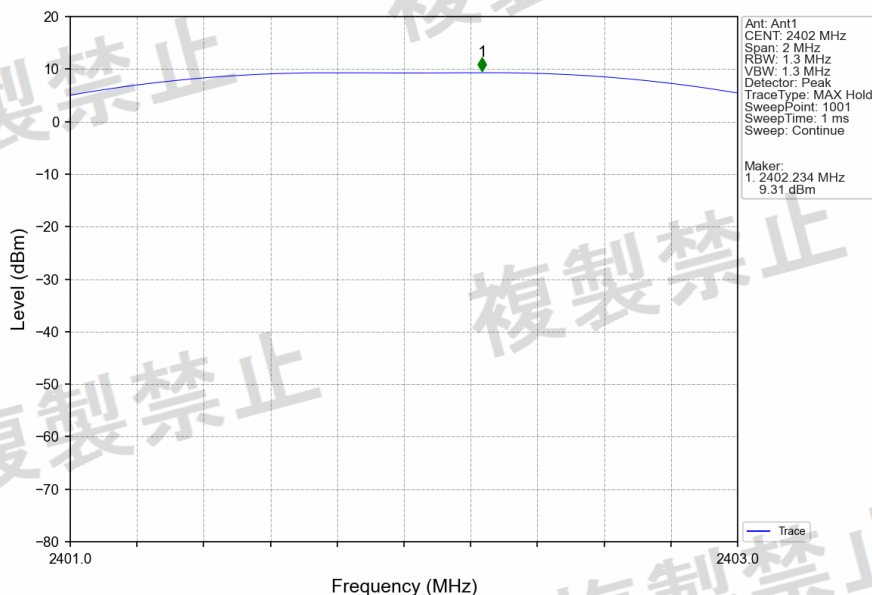


Burst No.	1	2	3	4
Length (ms)	1.099	1.097	1.097	1.099
Power(dBm)	8.18	8.19	8.19	8.18
Power(mW)	6.575	6.588	6.585	6.573
Remark	/	Max	/	/

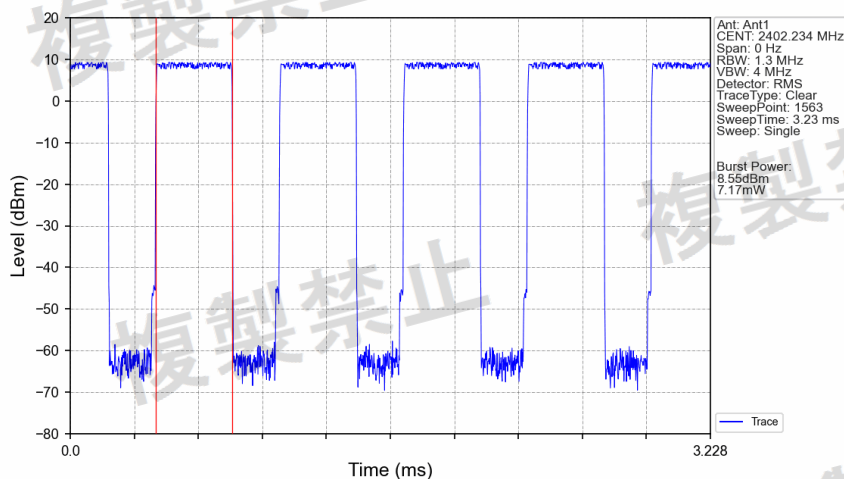
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1M_2402MHz_Ant1_NTNV



1M_2402MHz_Ant1_NTNV

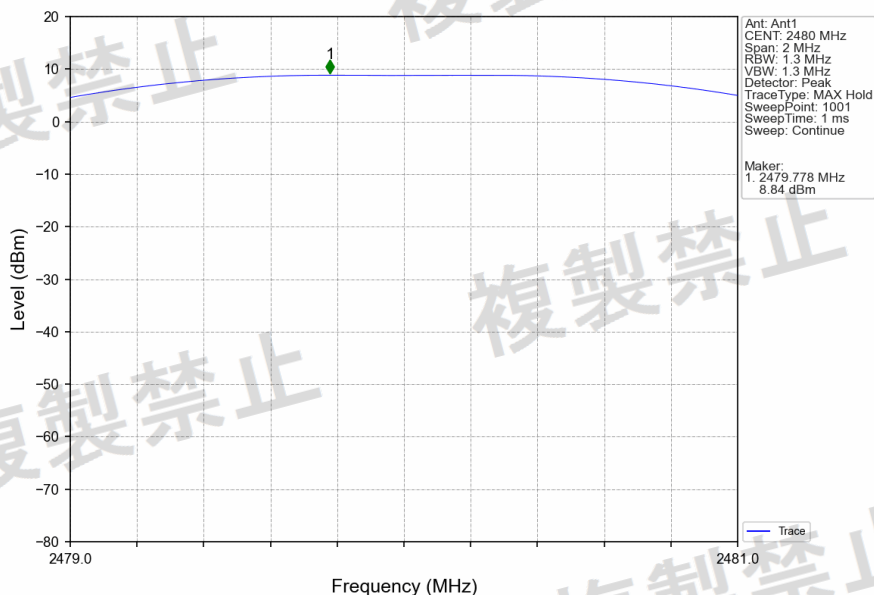


Burst No.	1	2	3	4
Length (ms)	0.389	0.389	0.389	0.389
Power(dBm)	8.55	8.55	8.55	8.55
Power(mW)	7.169	7.168	7.167	7.168
Remark	Max	/	/	/

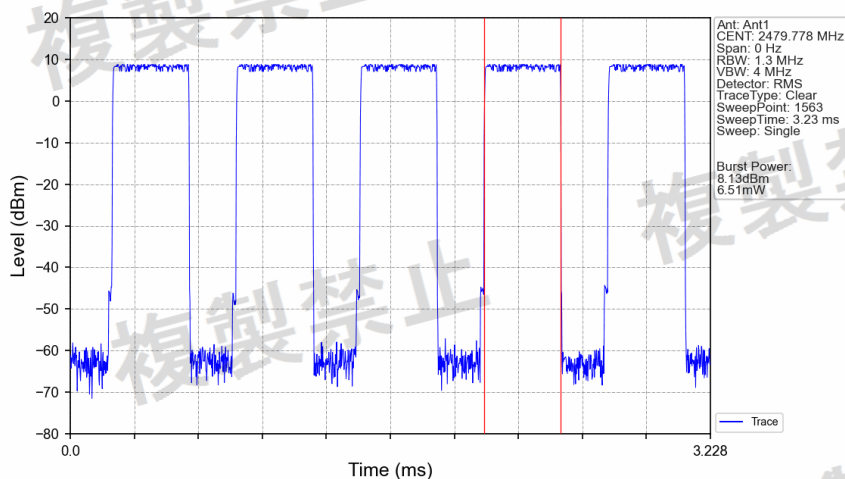
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1M_2480MHz_Ant1_NTNV

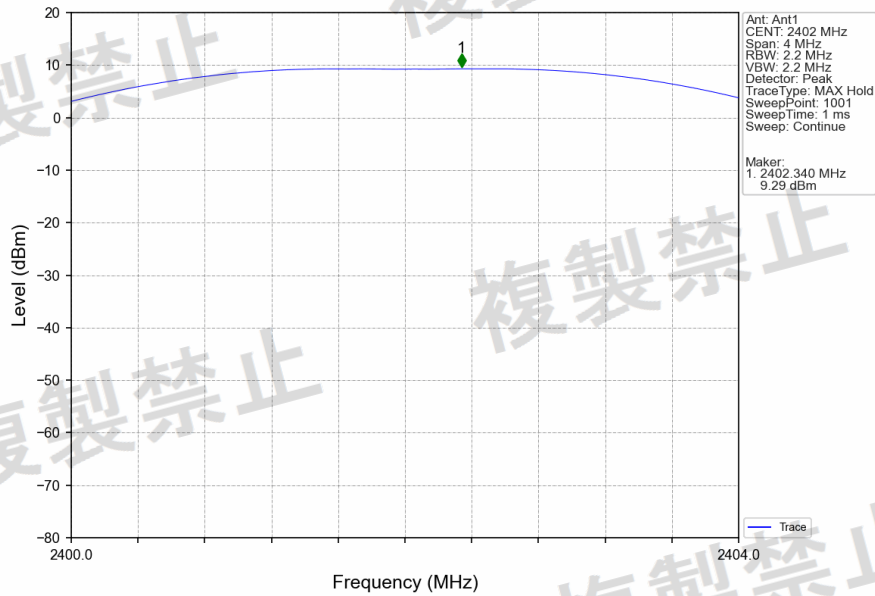


Burst No.	1	2	3	4	5
Length (ms)	0.389	0.389	0.389	0.386	0.389
Power(dBm)	8.11	8.11	8.11	8.13	8.11
Power(mW)	6.470	6.468	6.470	6.505	6.470
Remark	/	/	/	Max	/

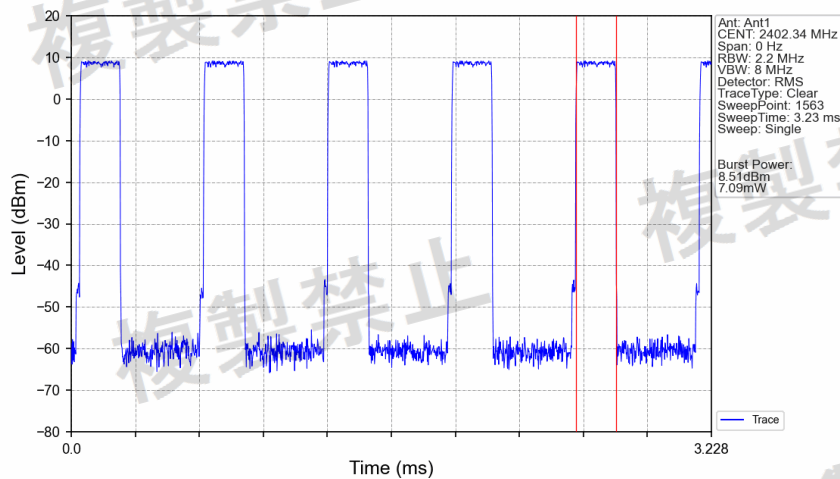
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2M_2402MHz_Ant1_NTNV



2M_2402MHz_Ant1_NTNV

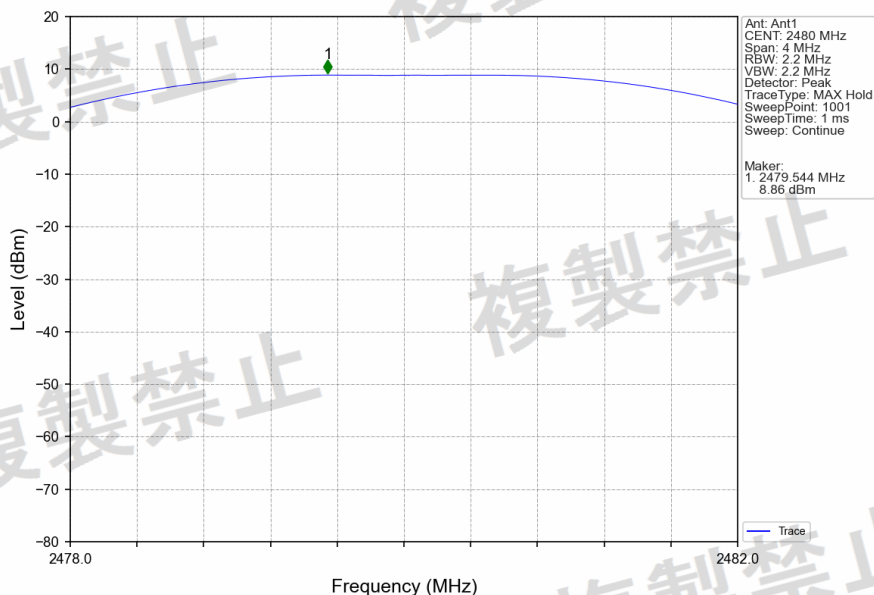


Burst No.	1	2	3	4	5
Length (ms)	0.205	0.205	0.203	0.205	0.203
Power(dBm)	8.46	8.46	8.50	8.46	8.51
Power(mW)	7.018	7.019	7.087	7.021	7.094
Remark	/	/	/	/	Max

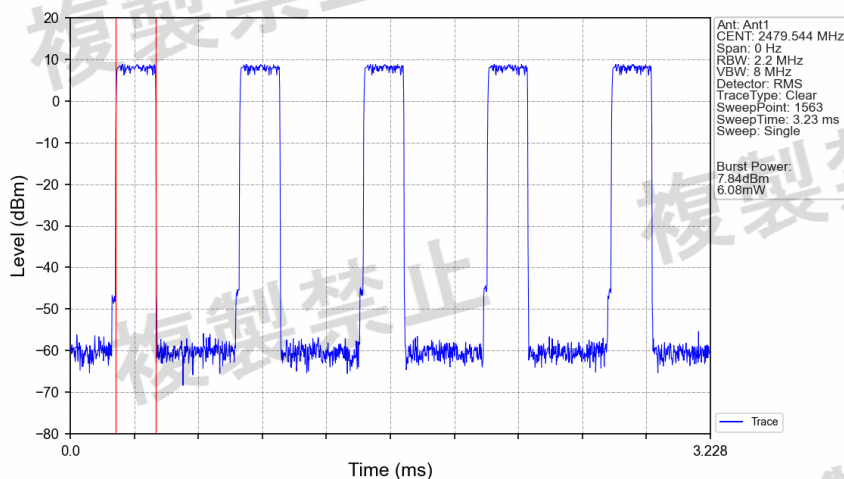
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2M_2480MHz_Ant1_NTNV



Burst No.	1	2	3	4	5
Length (ms)	0.203	0.205	0.205	0.205	0.205
Power(dBm)	7.84	7.79	7.80	7.80	7.79
Power(mW)	6.078	6.018	6.023	6.023	6.018
Remark	Max	/	/	/	/

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4. Spurious Emission Intensity

4.1 Test Result

4.1.1 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)		
S8	SISO	2402	1	30	2387	2381	-45.81	0.026	/	/	2.5	Pass
				2387	2400	2399.961	-19.70	10.715	/	/	25	Pass
				2483.5	2496.5	2496.097	-47.54	0.018	/	/	25	Pass
				2496.5	12500	2700	-47.81	0.017	/	/	2.5	Pass
		2480	1	30	2387	2320	-51.76	0.007	/	/	2.5	Pass
				2387	2400	2396.854	-51.83	0.007	/	/	25	Pass
				2483.5	2496.5	2483.565	-30.44	0.904	/	/	25	Pass
				2496.5	12500	2673	-51.64	0.007	/	/	2.5	Pass
S2	SISO	2402	1	30	2387	2210.5	-51.57	0.007	/	/	2.5	Pass
				2387	2400	2399.974	-23.72	4.246	/	/	25	Pass
				2483.5	2496.5	2491.69	-51.03	0.008	/	/	25	Pass
				2496.5	12500	4003.5	-50.65	0.009	/	/	2.5	Pass
		2480	1	30	2387	2159	-52.06	0.006	/	/	2.5	Pass
				2387	2400	2387.13	-51.00	0.008	/	/	25	Pass
				2483.5	2496.5	2483.526	-29.27	1.183	/	/	25	Pass
				2496.5	12500	4133	-51.79	0.007	/	/	2.5	Pass
1M	SISO	2402	1	30	2387	2240	-51.66	0.007	/	/	2.5	Pass
				2387	2400	2399.987	-23.54	4.426	/	/	25	Pass
				2483.5	2496.5	2485.58	-51.28	0.007	/	/	25	Pass
				2496.5	12500	3202.5	-50.43	0.009	/	/	2.5	Pass
		2480	1	30	2387	2321.5	-52.64	0.005	/	/	2.5	Pass
				2387	2400	2394.774	-51.83	0.007	/	/	25	Pass
				2483.5	2496.5	2483.526	-28.91	1.285	/	/	25	Pass
				2496.5	12500	3265.5	-52.10	0.006	/	/	2.5	Pass
2M	SISO	2402	1	30	2387	2240	-51.15	0.008	/	/	2.5	Pass
				2387	2400	2399.987	-14.06	39.264	-18.84	13.062	25	Pass
				2483.5	2496.5	2488.648	-51.55	0.007	/	/	25	Pass

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250200056603

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				2496.5	12500	2653	-52.33	0.006	/	/	2.5	Pass
		2480	1	30	2387	2343.5	-52.03	0.006	/	/	2.5	Pass
				2387	2400	2392.421	-52.01	0.006	/	/	25	Pass
				2483.5	2496.5	2483.513	-28.28	1.486	/	/	25	Pass
				2496.5	12500	3318.5	-52.29	0.006	/	/	2.5	Pass



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Shenzhen Branch Inspection & Testing Laboratory

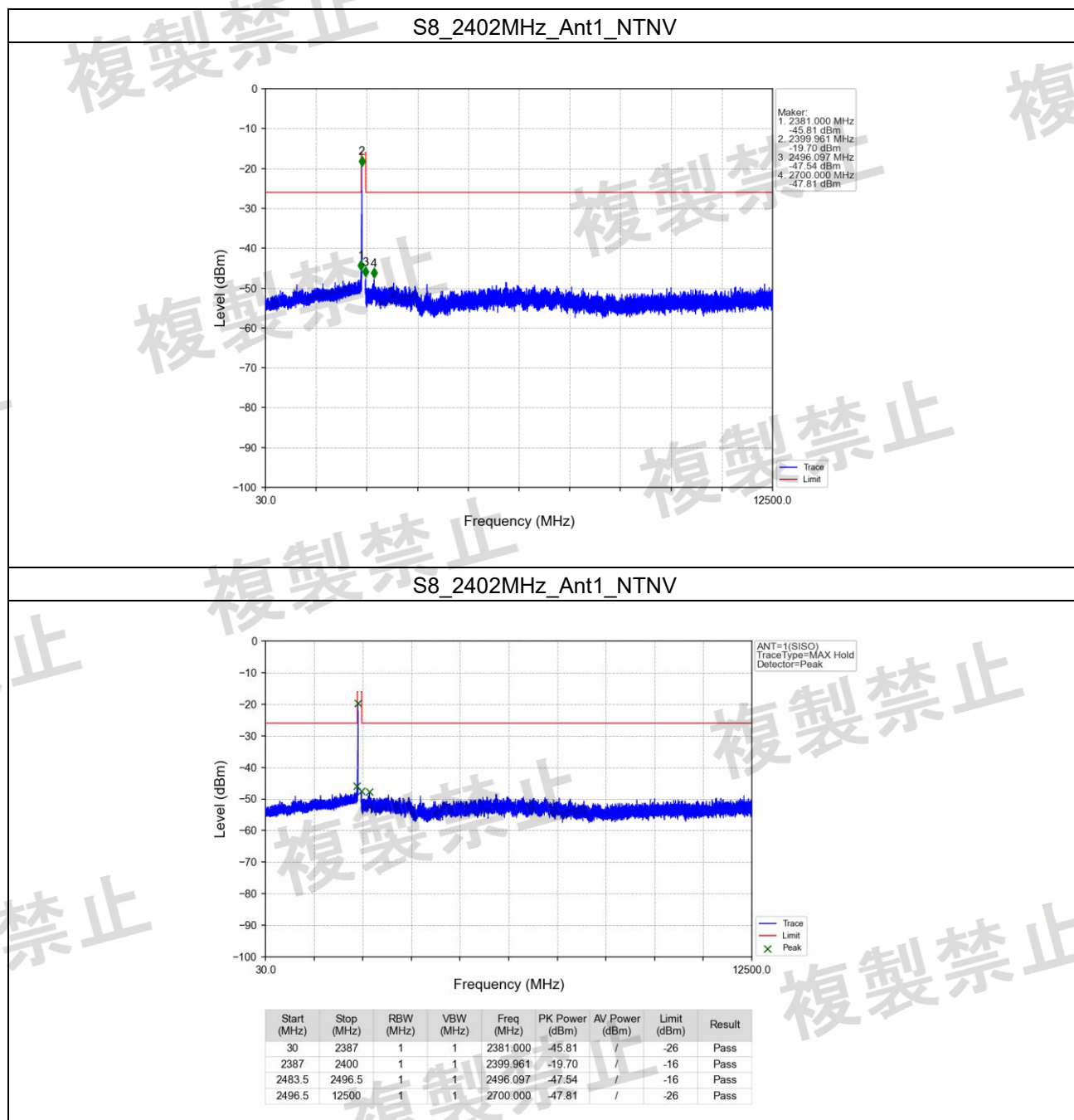
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4.2 Test Graph

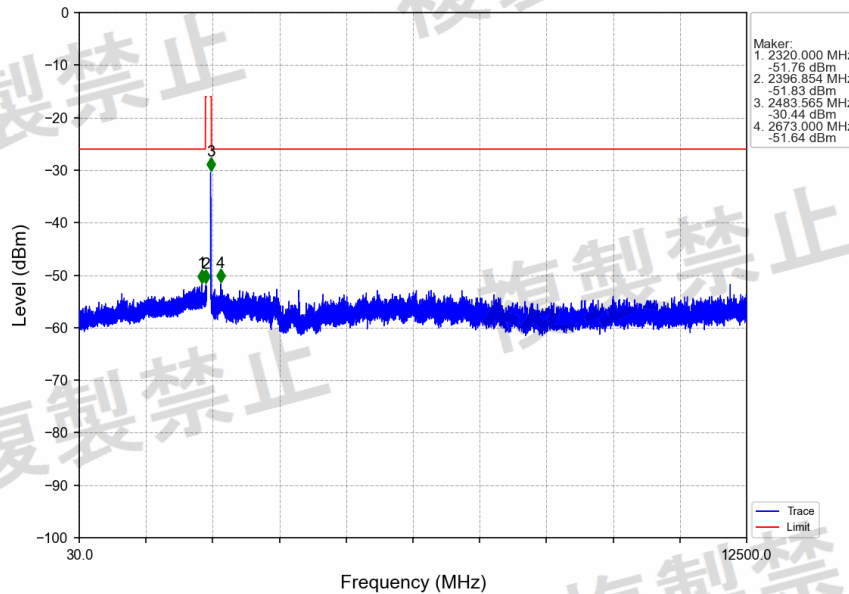
4.2.1 TxSe_NTNV



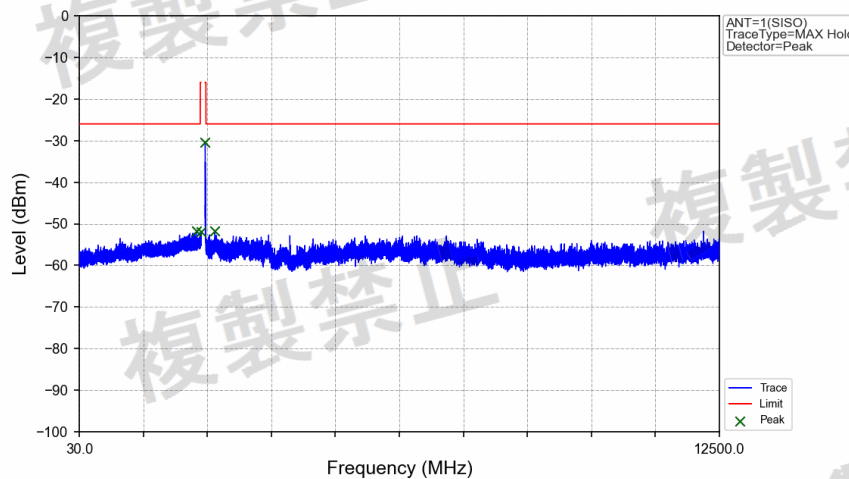
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S8_2480MHz_Ant1_NTNV



S8_2480MHz_Ant1_NTNV

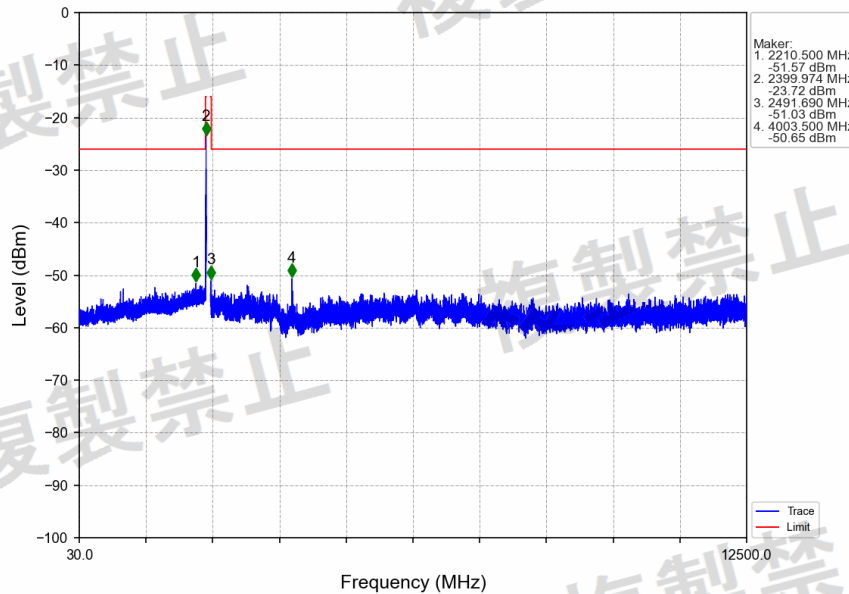


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2320.000	-51.76	/	-26	Pass
2387	2400	1	1	2396.854	-51.83	/	-16	Pass
2483.5	2496.5	1	1	2483.565	-30.44	/	-16	Pass
2496.5	12500	1	1	2673.000	-51.64	/	-26	Pass

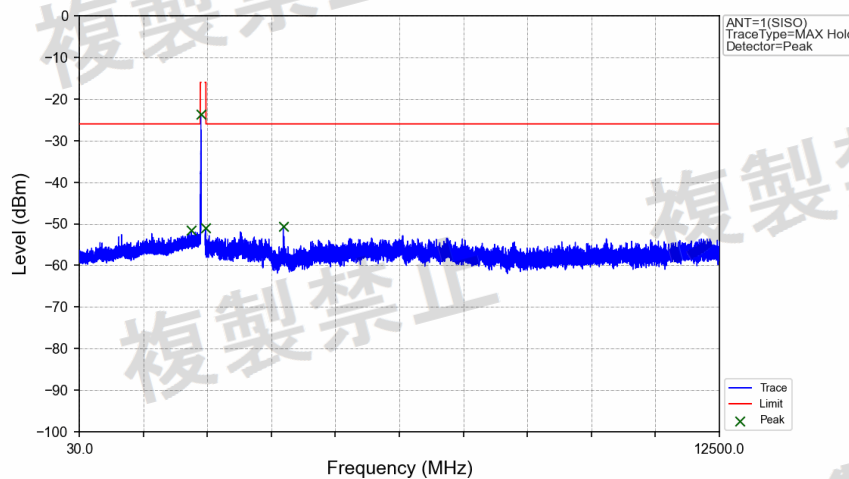
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S2_2402MHz_Ant1_NTNV



S2_2402MHz_Ant1_NTNV

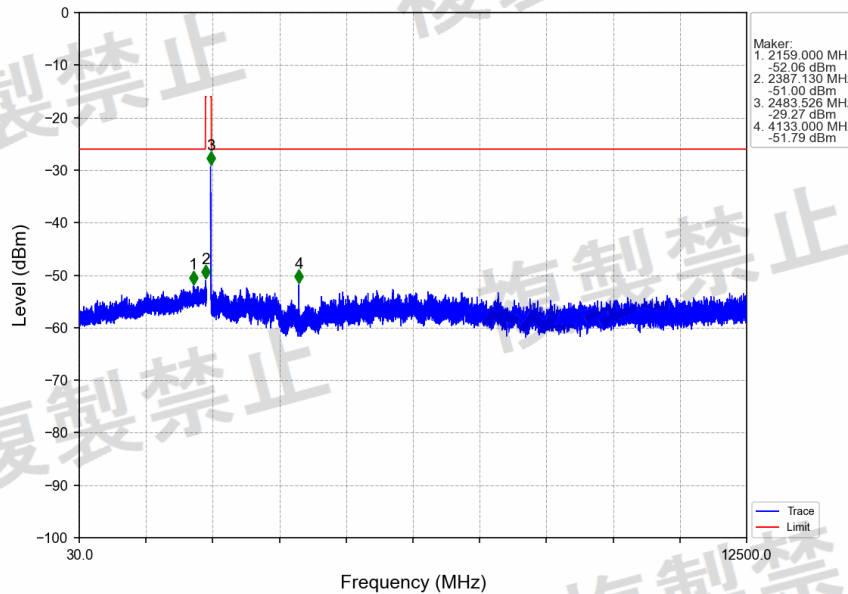


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2210.500	-51.57	/	-26	Pass
2387	2400	1	1	2399.974	-23.72	/	-16	Pass
2483.5	2496.5	1	1	2491.690	-51.03	/	-16	Pass
2496.5	12500	1	1	4003.500	-50.65	/	-26	Pass

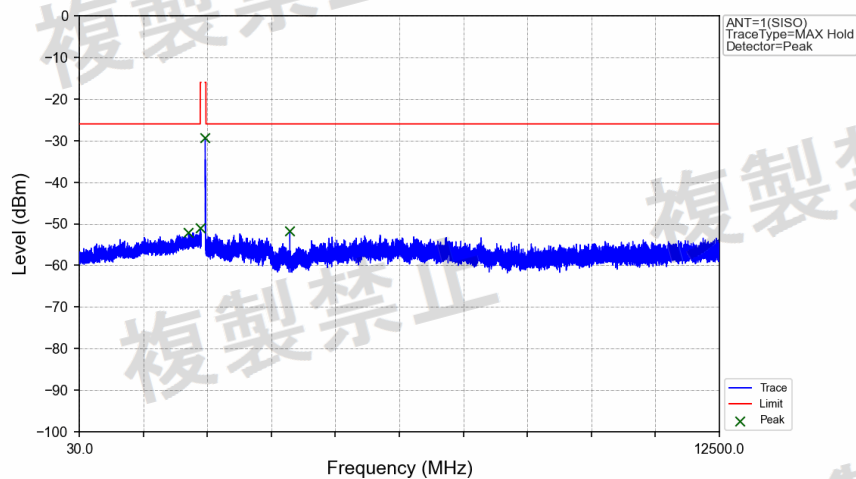
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S2_2480MHz_Ant1_NTNV



S2_2480MHz_Ant1_NTNV

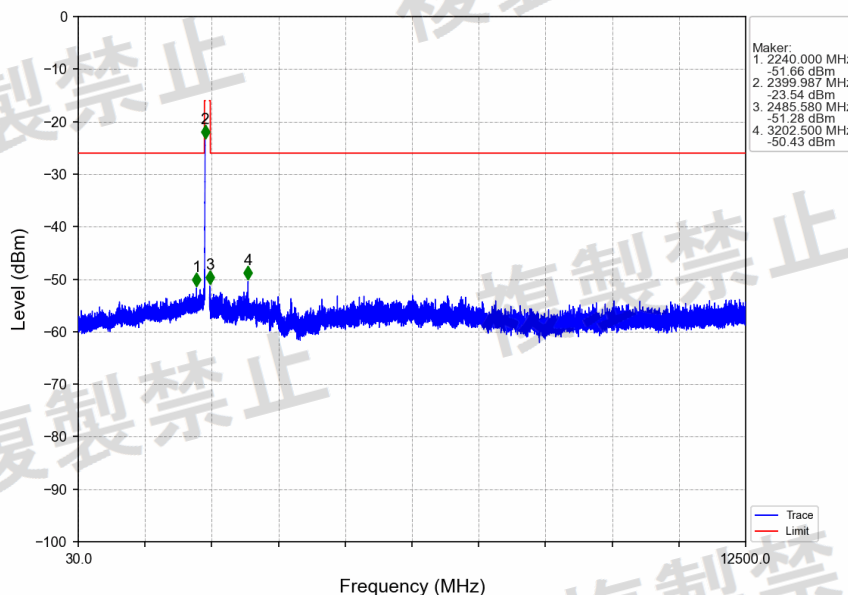


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2159.000	-52.06	/	-26	Pass
2387	2400	1	1	2387.130	-51.00	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-29.27	/	-16	Pass
2496.5	12500	1	1	4133.000	-51.79	/	-26	Pass

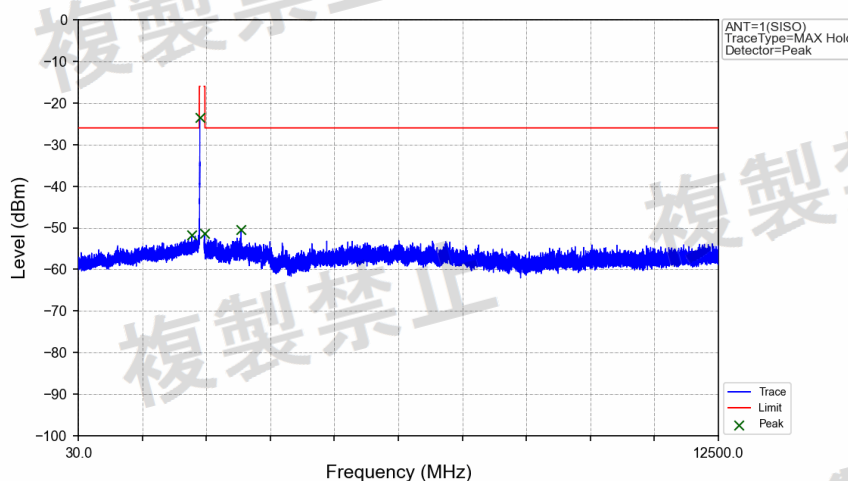
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1M_2402MHz_Ant1_NTNV

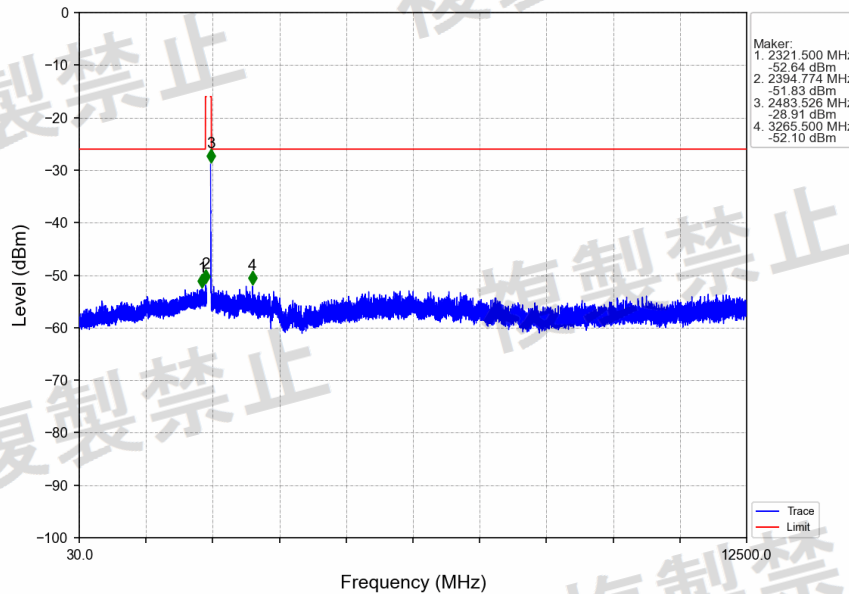


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2240.000	-51.66	/	-26	Pass
2387	2400	1	1	2399.987	-23.54	/	-16	Pass
2483.5	2496.5	1	1	2485.580	-51.28	/	-16	Pass
2496.5	12500	1	1	3202.500	-50.43	/	-26	Pass

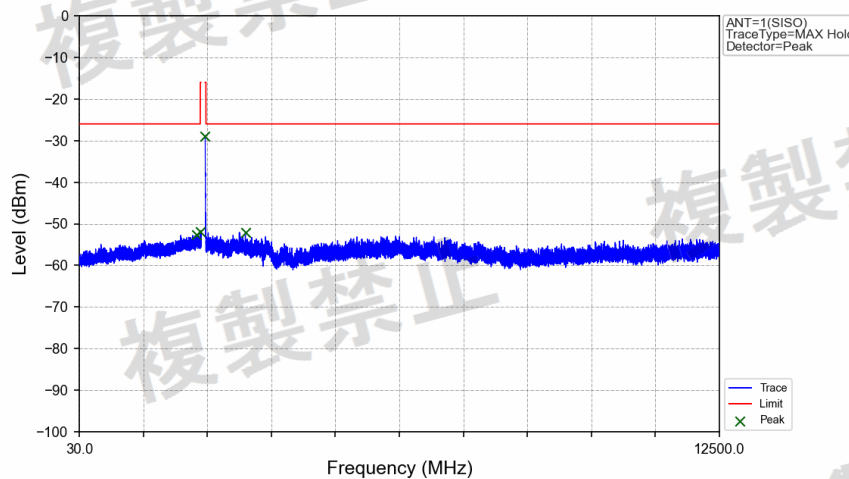
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

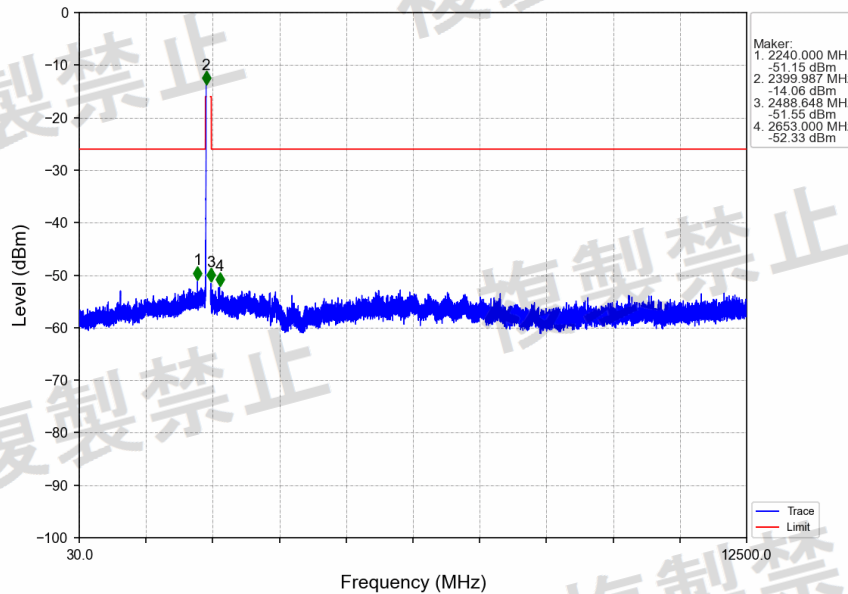


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2321.500	-52.64	/	-26	Pass
2387	2400	1	1	2394.774	-51.83	/	-16	Pass
2483.5	2496.5	1	1	2483.526	-28.91	/	-16	Pass
2496.5	12500	1	1	3265.500	-52.10	/	-26	Pass

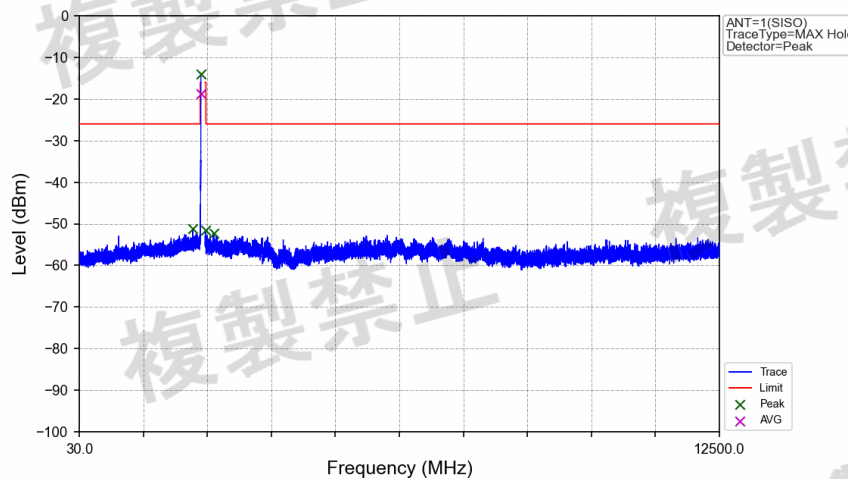
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2M_2402MHz_Ant1_NTNV



2M_2402MHz_Ant1_NTNV

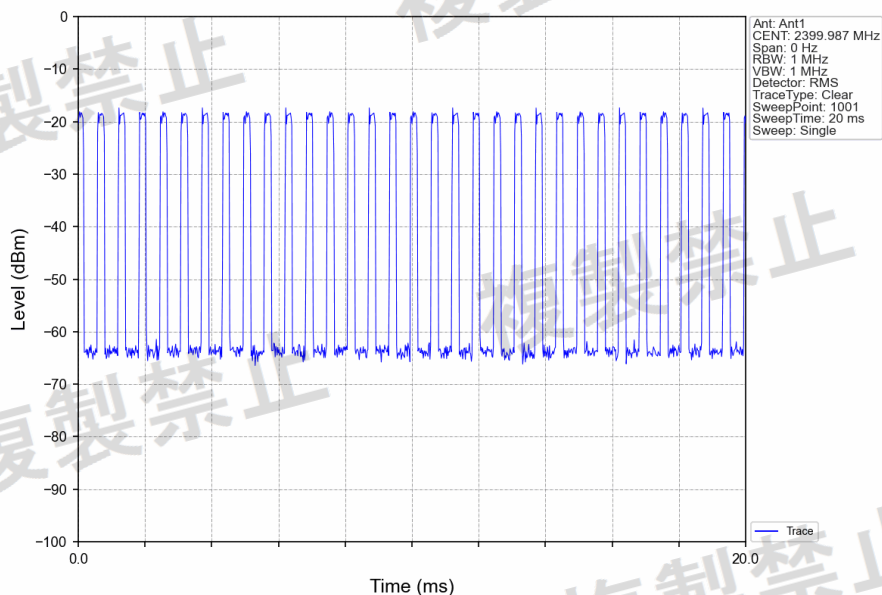


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2240.000	-51.15	/	-26	Pass
2387	2400	1	1	2399.987	-14.06	-18.84	-16	Pass
2483.5	2496.5	1	1	2488.648	-51.55	/	-16	Pass
2496.5	12500	1	1	2653.000	-52.33	/	-26	Pass

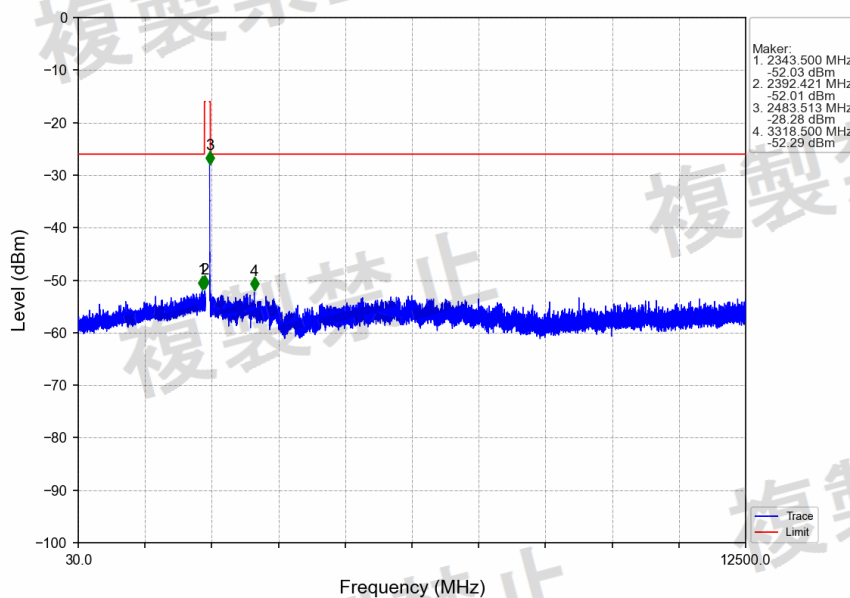
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2M_2402MHz_Ant1_NTNV



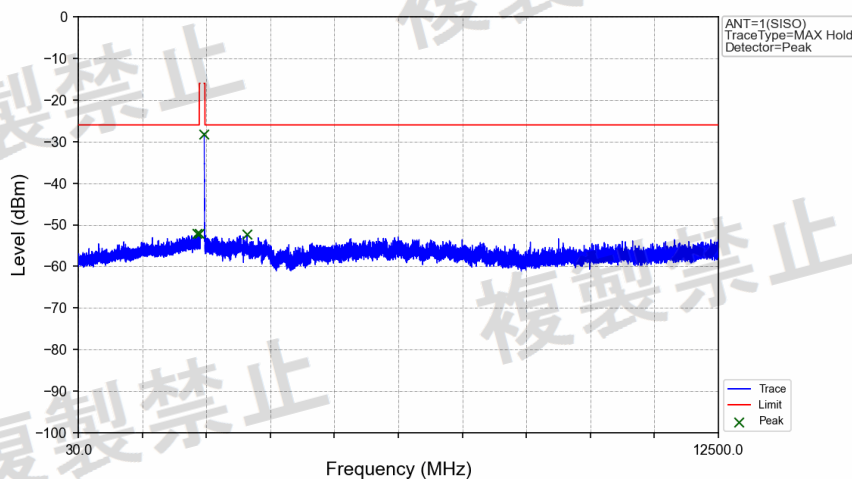
2M_2480MHz_Ant1_NTNV



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2M_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	2343.500	-52.03	/	-26	Pass
2387	2400	1	1	2392.421	-52.01	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-28.28	/	-16	Pass
2496.5	12500	1	1	3318.500	-52.29	/	-26	Pass

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5. Secondary Radiated Emission

5.1 Test Result

5.1.1 RxSe_NTNV

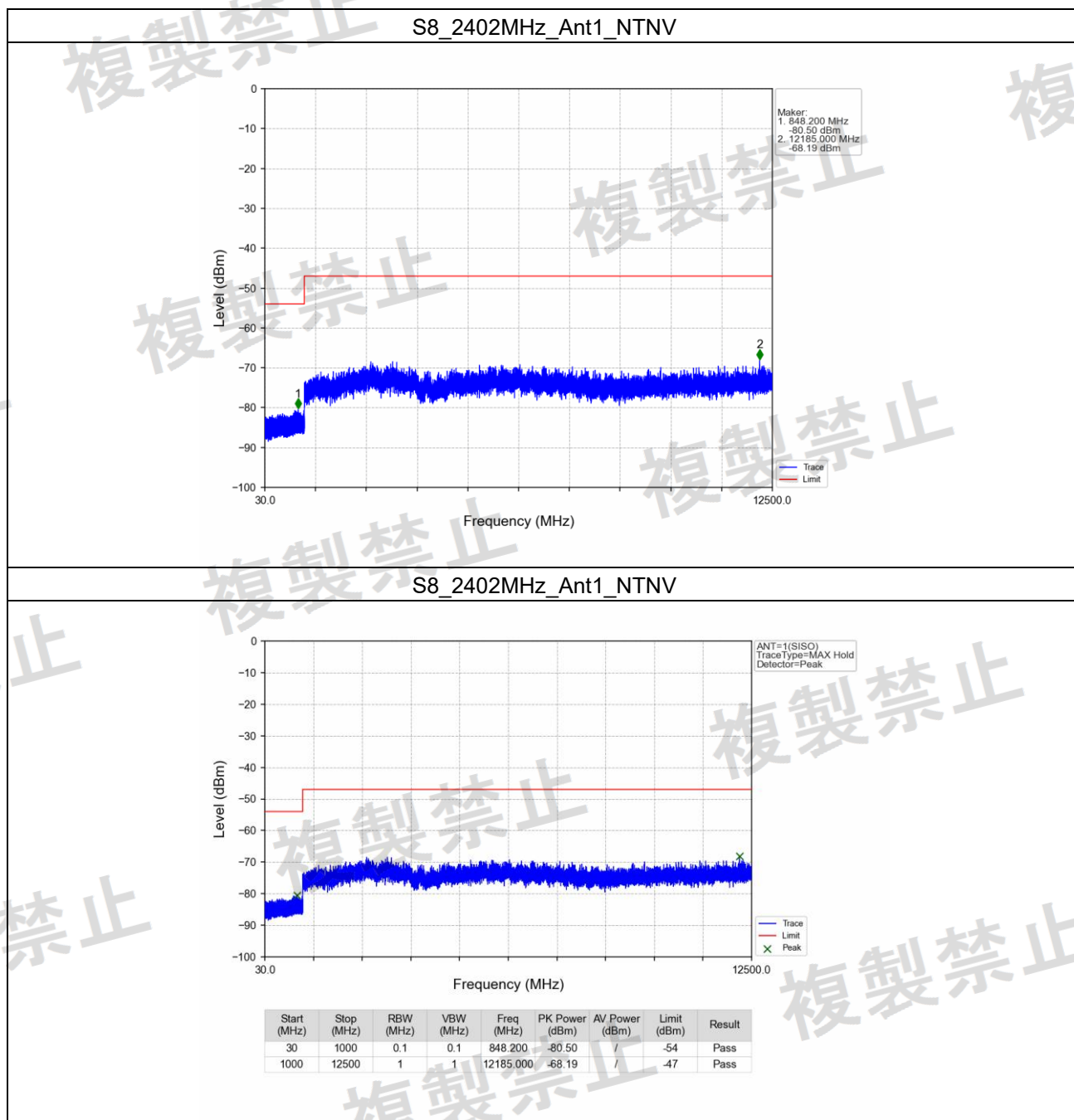
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
S8	SISO	2402	1	30	1000	848.2	-80.50	0.009	/	/	4	Pass
				1000	12500	12185	-68.19	0.152	/	/	20	Pass
		2480	1	30	1000	850.75	-79.95	0.010	/	/	4	Pass
				1000	12500	3037	-67.36	0.184	/	/	20	Pass
S2	SISO	2402	1	30	1000	948.6	-80.02	0.010	/	/	4	Pass
				1000	12500	6312.5	-67.82	0.165	/	/	20	Pass
		2480	1	30	1000	837.1	-79.45	0.011	/	/	4	Pass
				1000	12500	2635.5	-66.90	0.204	/	/	20	Pass
1M	SISO	2402	1	30	1000	979.65	-80.13	0.010	/	/	4	Pass
				1000	12500	2474	-64.49	0.356	/	/	20	Pass
		2480	1	30	1000	910.9	-80.53	0.009	/	/	4	Pass
				1000	12500	6228.5	-67.48	0.179	/	/	20	Pass
2M	SISO	2402	1	30	1000	897.95	-80.76	0.008	/	/	4	Pass
				1000	12500	3166	-68.15	0.153	/	/	20	Pass
		2480	1	30	1000	882.25	-80.32	0.009	/	/	4	Pass
				1000	12500	3210.5	-67.59	0.174	/	/	20	Pass

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5.2 Test Graph

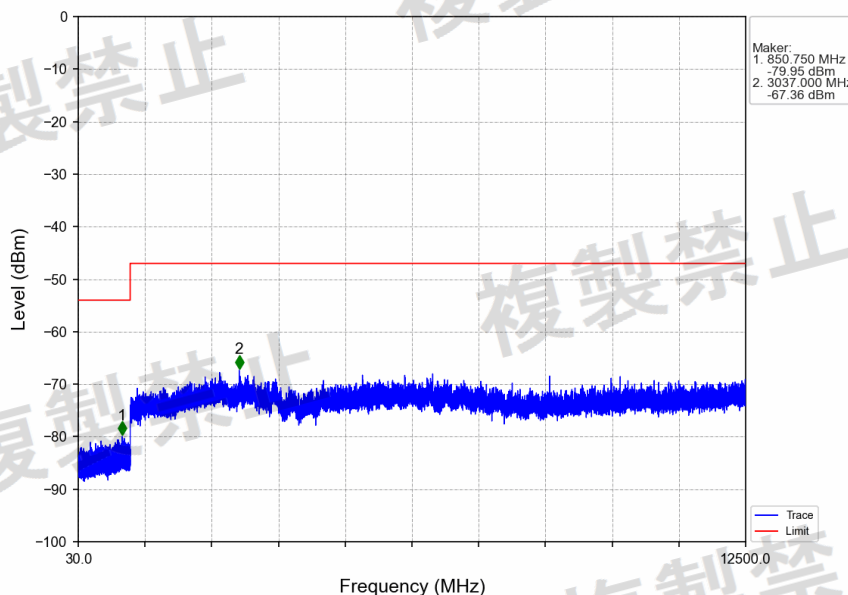
5.2.1 RxSe_NTNV



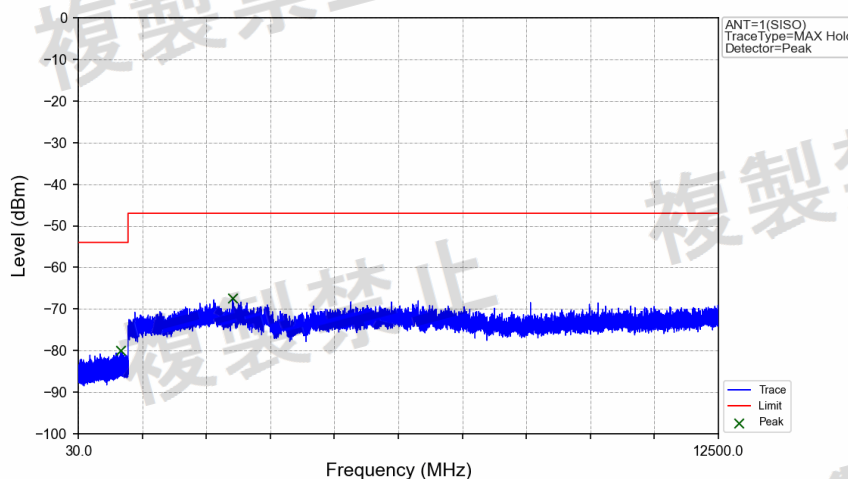
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S8_2480MHz_Ant1_NTNV



S8_2480MHz_Ant1_NTNV

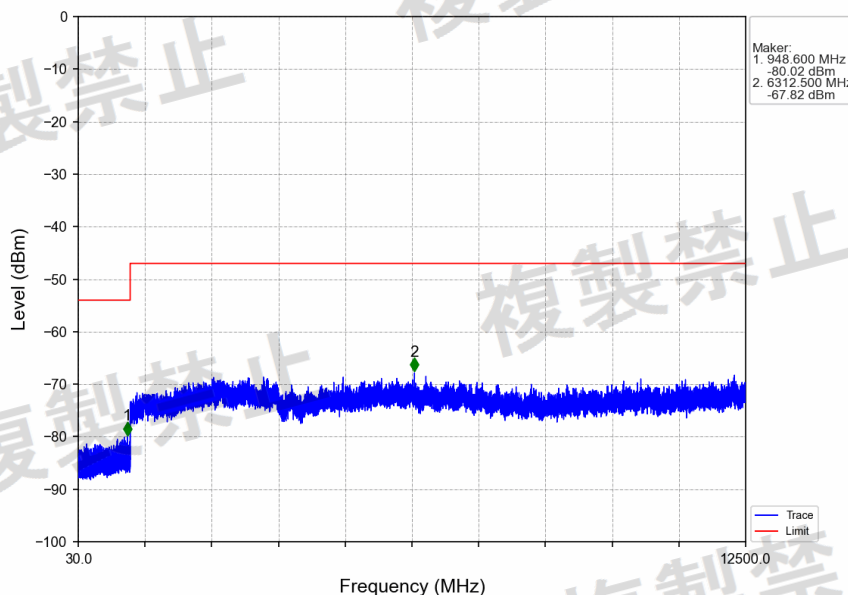


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	850.750	-79.95	/	-54	Pass
1000	12500	1	1	3037.000	-67.36	/	-47	Pass

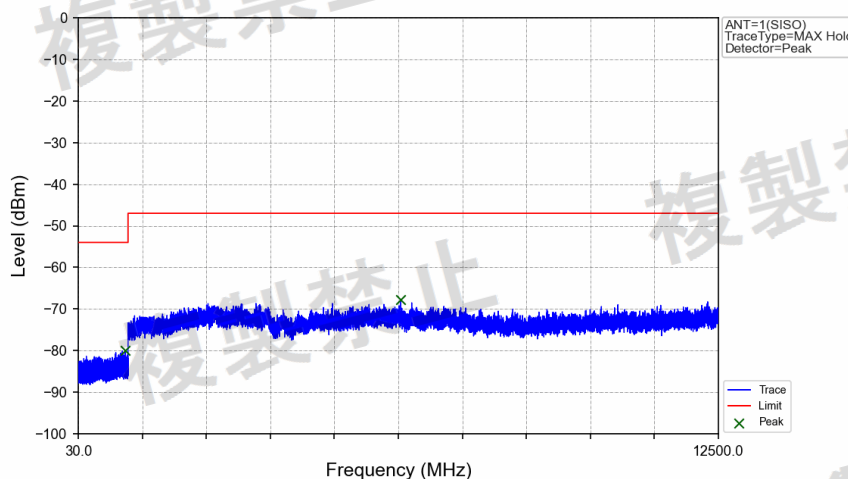
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S2_2402MHz_Ant1_NTNV



S2_2402MHz_Ant1_NTNV

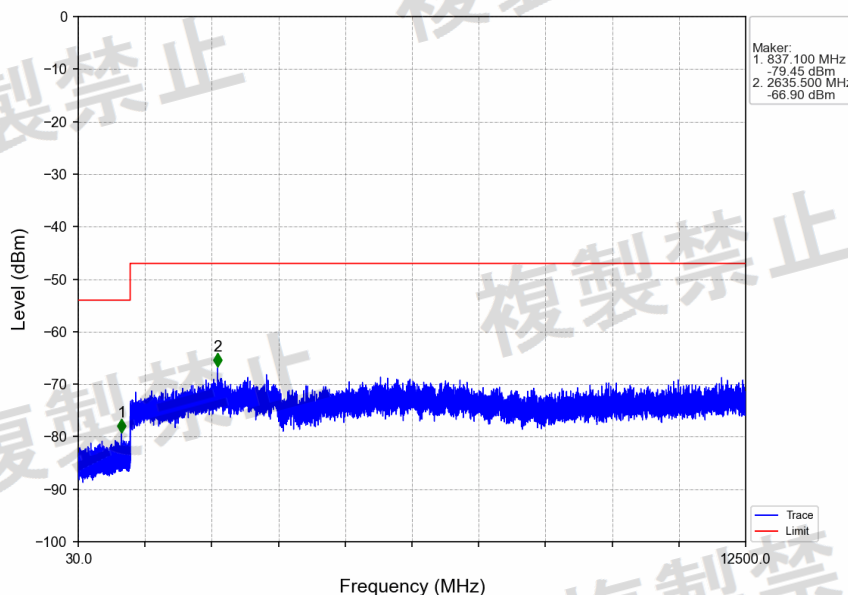


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	948.600	-80.02	/	-54	Pass
1000	12500	1	1	6312.500	-67.82	/	-47	Pass

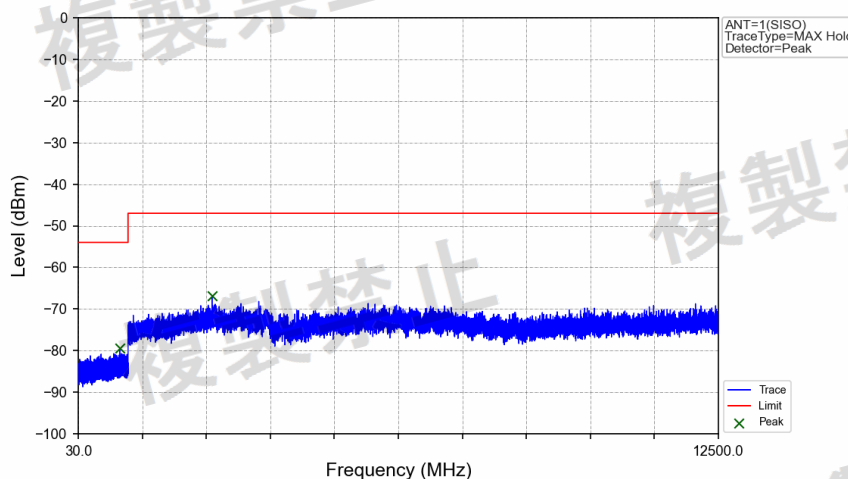
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S2_2480MHz_Ant1_NTNV

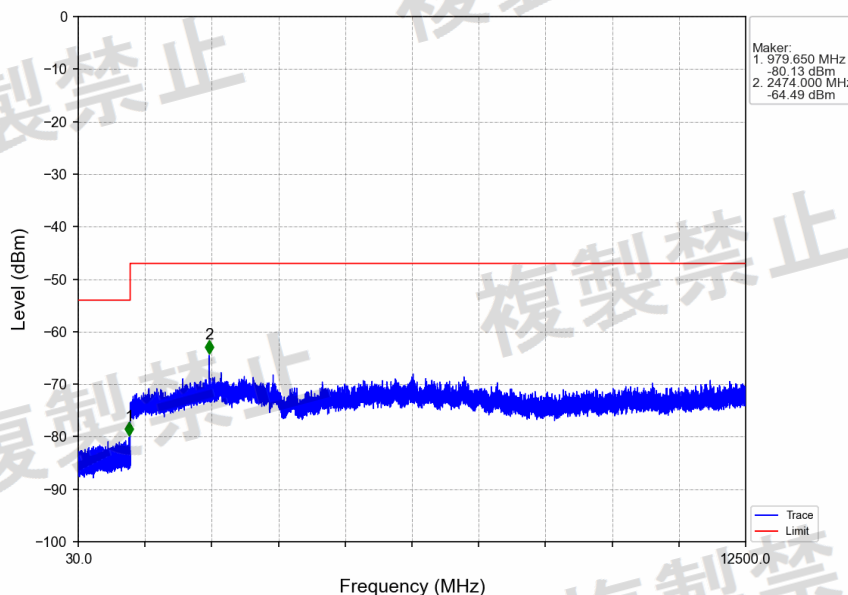


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	837.100	-79.45	/	-54	Pass
1000	12500	1	1	2635.500	-66.90	/	-47	Pass

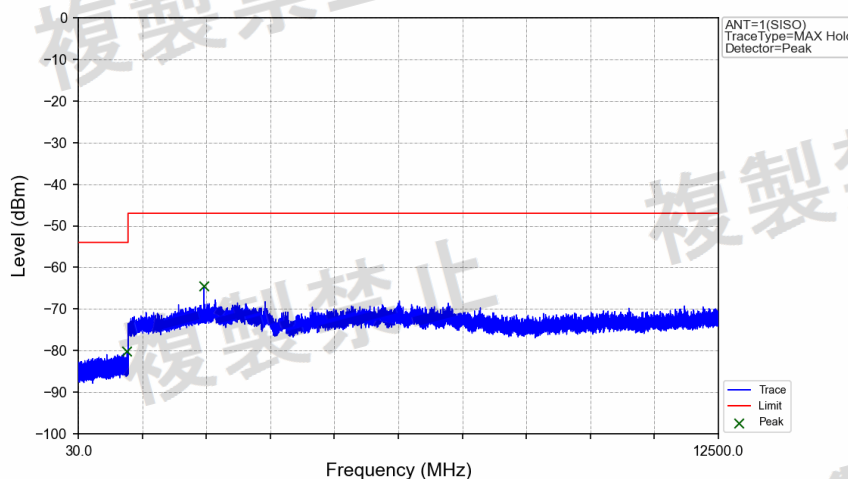
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1M_2402MHz_Ant1_NTNV



1M_2402MHz_Ant1_NTNV

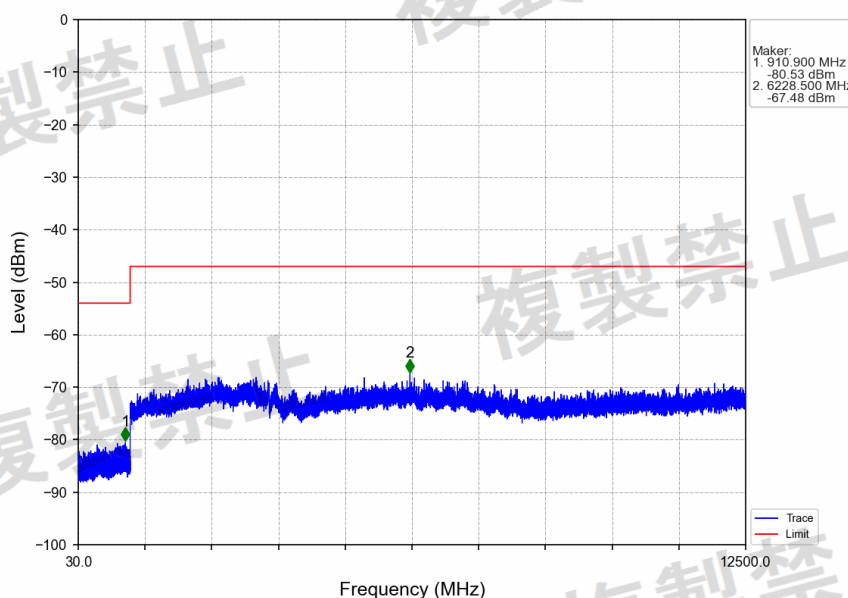


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	979.650	-80.13	/	-54	Pass
1000	12500	1	1	2474.000	-64.49	/	-47	Pass

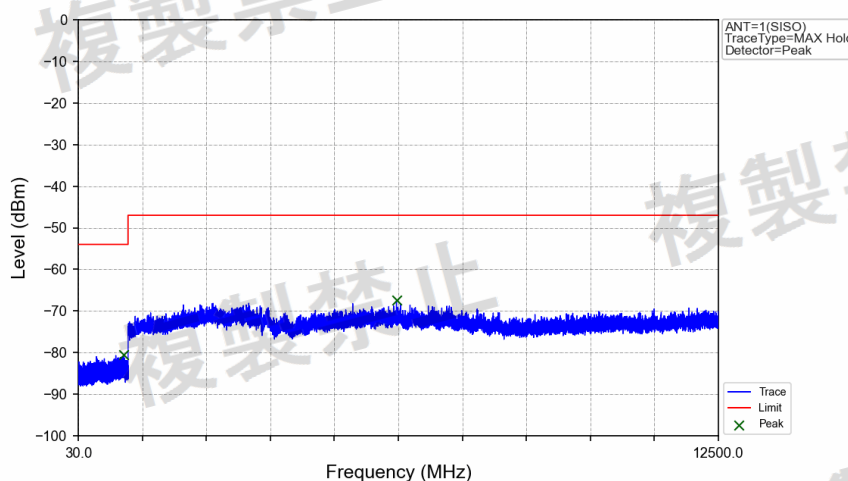
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1M_2480MHz_Ant1_NTNV



1M_2480MHz_Ant1_NTNV

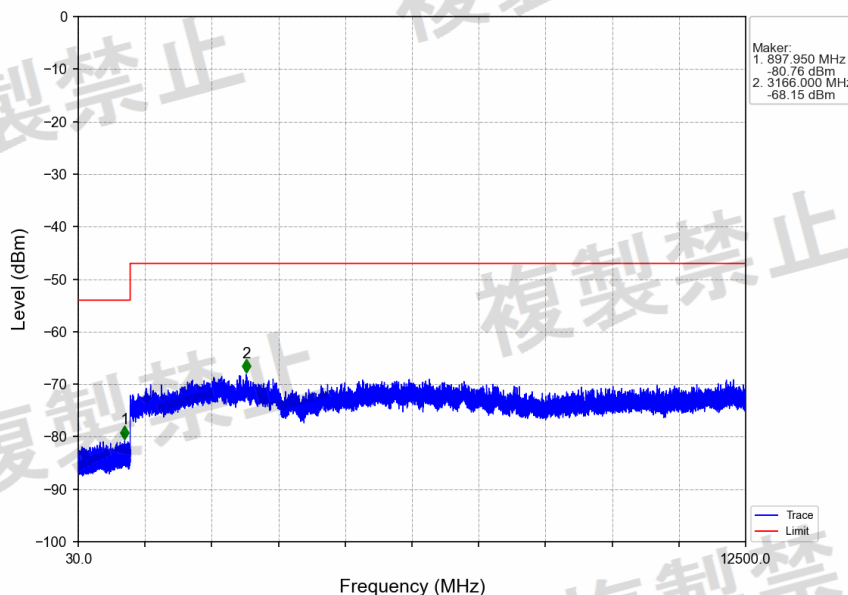


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	910.900	-80.53	/	-54	Pass
1000	12500	1	1	6228.500	-67.48	/	-47	Pass

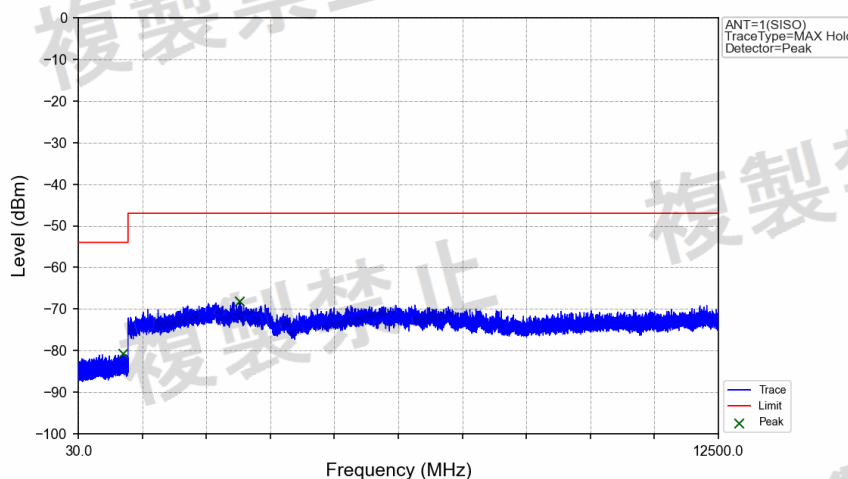
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2M_2402MHz_Ant1_NTNV



2M_2402MHz_Ant1_NTNV

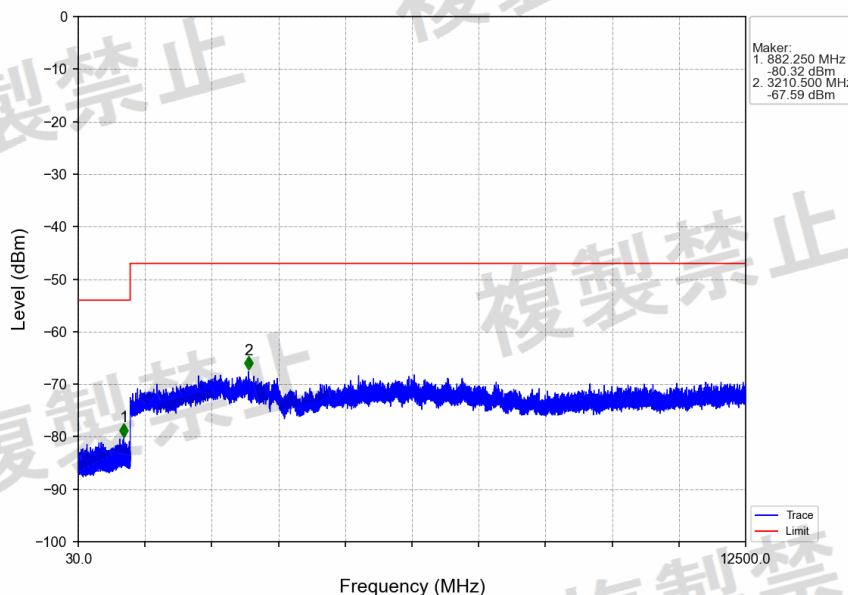


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	897.950	-80.76	/	-54	Pass
1000	12500	1	1	3166.000	-68.15	/	-47	Pass

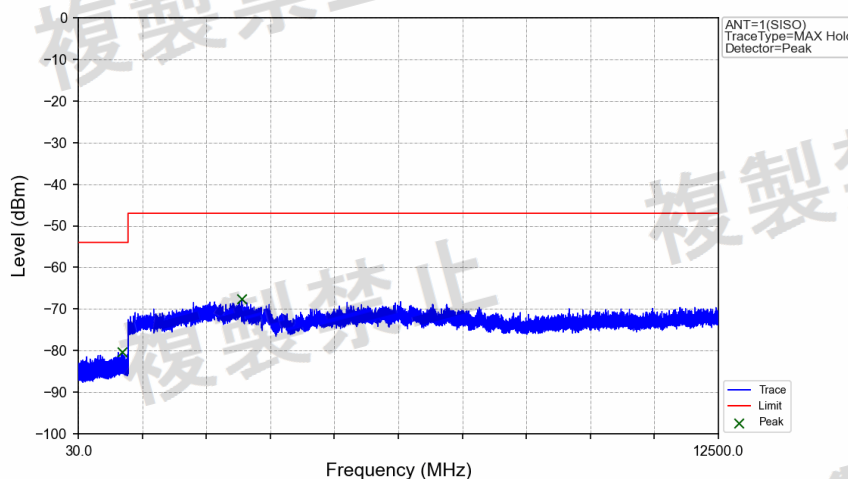
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2M_2480MHz_Ant1_NTNV



2M_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	882.250	-80.32	/	-54	Pass
1000	12500	1	1	3210.500	-67.59	/	-47	Pass

- End of the Report -

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