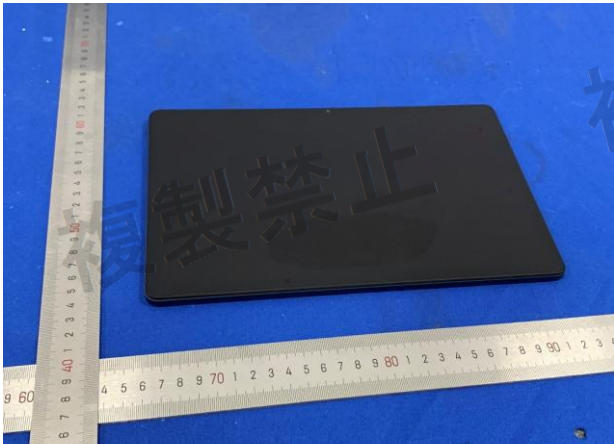


Prüfbericht-Nr.: Test report no.:	CN262E5M 003	Auftrags-Nr.: Order no.:	27226937	Seite 1 von 27 Page 1 of 27
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-04-01	
Auftraggeber: Client:	AgiBot Innovation (Shanghai) Technology Co., Ltd. 8/F, Building 29, No.2555 Xiupu Road, Pudong New Area, 200120 Shanghai P.R. China			
Prüfgegenstand: Test item:	Wireless Terminal			
Bezeichnung / Typ-Nr.: Identification / Type no.:	GWC11T-W01			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	Article 2 Section 1 Item 19-3			
Wareneingangsdatum: Date of sample receipt:	2026-03-27			
Prüfmuster-Nr.: Test sample no.:	A004233979-001~003			
Prüfzeitraum: Testing period:	2026-04-26 - 2026-05-20			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>X Bell Hu</u>		genehmigt von: authorized by:	<u>X Jonathan Li</u>
Datum: Date:	2026-07-03	Ausstellungsdatum: Issue date:		2026-07-03
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position: Sachverständige(r)/Expert		
Sonstiges / Other:	This report is for 5.2GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test report no.:

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test result of 5.2GHz Band Wi-Fi.

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2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

CNAS Registration No.: L3080

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until	Calibration Body	Calibration Method*
Signal Analyzer	R&S	FSV 40	101441	2025-09-23	2026-09-22	GRGTEST	c
Power Meter	R&S	NRP2	107105	2025-10-30	2026-10-29	GRGTEST	c
Power Sensor	R&S	NRP-Z81	105677	2025-09-23	2026-09-22	GRGTEST	c
DC Power Supply	KIKUSUI	PAN35-5A	YM002997	2026-02-02	2027-02-01	GRGTEST	c
Digital Multi Meter	FLUKE	F15B	44350844WS	2026-02-02	2027-02-01	GRGTEST	c

Calibration Method:

- a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) (hereinafter referred to as "NICT") or a designated calibration agency under Article 102-18 paragraph (1)
- b) Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
- c) Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
- d) Calibration conducted by using measuring instruments and other equipment listed in the right column of Table No. 3 attached hereto, which shall have been given any of calibration, etc. listed above from a) to c)

2.3 Uncertainty of Measurement

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	± 2.08 %
Spurious emissions	± 3.68 dB
Output power density	± 0.99 dB
Adjacent Channel Leakage Power	± 0.99 dB
Out of band radiated power	± 0.89 dB
Frequency Tolerance	0.104 ppm
Burst length	0.7%

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3 General Product Information

3.1 Product Function and Intended Use

The product is Wireless Terminal, which supports Bluetooth, 2.4GHz Wi-Fi and 5.2GHz Wi-Fi wireless functions.

This report is for 5GHz Wi-Fi operation.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment:	Wireless Terminal
Type Designation:	GWC11T-W01
Operating Voltage:	3.85V DC Battery Powered
Operating Temperature Range:	0 °C ~ +40 °C
Hardware release No.:	TP769_K1_MB_V1.1C
Software release No.:	TP7691_ZYXC_V05_20260327
MIC ID:	201-260464
Technical Specification of 5GHz Wi-Fi	
Characteristic	Description
Operating Frequency:	5180-5240MHz
Protocol:	802.11 a/n20/n40/ac20/ac40/ac80
Type of Modulation:	OFDM
Channel Number:	7 channels
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n MCS0~MCS9 for 802.11ac (All data rates considered, only the Worst-cases reported.)
Channel Separation:	20MHz, 40MHz, 80MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	4.36 dBi (Provided by the Client)
Rated RF output power:	Please refer to Note 1
Conducted RF output power:	Please refer to Note 1
EIRP output power:	Please refer to Note 1

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

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Note 1: The power table as below table:

5.2GHz Wi-Fi			
Mode	Rated power density (mW/MHz)	Conducted power density (mW/MHz)	EIRP power density (mW/MHz)
802.11 a	3.0	1.4289	3.899
802.11n (HT20)	3.0	1.2388	3.381
802.11n (HT40)	2.0	0.6095	1.663
802.11ac (VHT20)	3.0	1.1967	3.266
802.11ac (VHT40)	2.0	0.5984	1.633
802.11ac (VHT80)	1.0	0.2748	0.750

RU

Table 4: RF Channel and Frequency of 5.2GHz Wi-Fi

5.2GHz Wi-Fi					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

3.3 Antenna Specifications

3.3.1 Antenna Gain

Ant. Type	Connector Type	Highest Peak Gain (dBi) 5.15GHz ~ 5.25GHz
Integral Antenna	N/A	4.36 dBi

3.3.2 Antenna Pattern

Please refer to the attached file (Antenna report).

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- User Manual
- Operation Description
- Rating Label

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4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 and chapter 6.

The RF circuits are located inside of the EUT. The RF circuit was covered by metal shielding case, also it won't be easy to be opened. Frequency Band, channels and modulation parameters are fixed inside the module. They cannot be edited or modified by end-user.

Table 5: Test Conditions

Test conditions	Unit
Voltage _{normal}	3.33V dc
Voltage _{max}	3.33V dc
Voltage _{min}	3.33V dc
Temperature	24.8 deg.C
Humidity	55 %

Note: During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/-1%. Exempt extremely high and low supply voltage condition test, EUT only operated in normal voltage to test all regulations.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

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5 Test Results

5.1 Frequency Tolerance Measurement

5.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 20ppm.

5.1.2 Test Setup



5.1.3 Condition of Measuring Instrument

- (1) As a frequency meter, use a frequency counter or spectrum analyzer (with a synthesizer type local oscillator).
- (2) The measurement accuracy of the frequency meter shall be 1/10 or less of the allowable value specified in the Equipment Regulations.
- (3) When measuring burst waves, set the gate open time to the time that allows the entire burst section to be measured.

5.1.4 Condition of Test Equipment

- (1) Set the test frequency and transmit.
- (2) Stop modulation and continuously transmit non-modulated waves. However, if modulation is stopped and continuous transmission of unmodulated waves cannot be performed, continuous burst transmission of unmodulated waves or a modulation state that produces a characteristic frequency spectrum whose frequency can be measured by a spectrum analyzer is used.

5.1.5 Measurement procedure

- (1) In the case of unmodulated waves (continuous or continuous burst), measure directly with a frequency meter.
- (2) In the case of burst waves, measure for the time period when sufficient accuracy is obtained, calculate the average value, and use it as the measured value.
- (3) If the test mode produces a characteristic frequency spectrum, measure the frequency of that spectrum with a spectrum analyzer.

5.1.6 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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5.2 Occupied Bandwidth Measurement (99% Power Bandwidth)

5.2.1 Limits of Occupied Bandwidth Measurement

Item	Bandwidth	Limit	Remark
Occupied bandwidth	20MHz	≤20MHz	W52/W53/W56
Occupied bandwidth	40MHz	≤40MHz	W52/W53/W56
Occupied bandwidth	80MHz	≤80MHz	W52/W53/W56

5.2.2 Test Setup



5.2.3 Measuring Instrument Conditions

Set the spectrum analyzer as follows.

Center frequency: Test frequency

Sweep frequency width From about 2 times to about 3.5 times the allowable value specified in the equipment regulations

Resolution bandwidth: 3% or less of the allowable value specified in the equipment regulations

Video bandwidth: Same as resolution bandwidth

Input level: The level at which the carrier wave level can be measured without being affected by the noise level of the spectrum analyzer.

Sweep time: Minimum time for guaranteed measurement accuracy
(In the case of burst waves, when more than 1 burst per sample)

Sweep mode: Continuous sweep

Detection mode: Positive peak (Note)

Display mode: Max hold (Note)

Note: For OFDM and other than burst waves, the following shall apply.

Average processing times 10 times or more

Detection mode sample

5.2.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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5.3 Spurious Emissions for Transmitter Measurement

5.3.1 Limits of Spurious Emissions

W52 & W53, 20MHz

Frequencies (MHz)	Limit
OBW $\leq$ 18MHz	
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz to 5140.0MHz	$\leq 2.5 \text{ uW/MHz}$
5360.0MHz to 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$
18MHz < OBW < 20MHz	
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz to 5135.0MHz	$\leq 2.5 \text{ uW/MHz}$
5365.0MHz to 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

W52 & W53, 40MHz

Frequencies (MHz)	Limit
30.0MHz ~ 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz ~ 5100.0MHz	$\leq 2.5 \text{ uW/MHz}$
5400.0MHz ~ 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

W52 & W53, 80MHz

Frequencies (MHz)	Limit
30.0MHz ~ 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz ~ 5020.0MHz	$\leq 2.5 \text{ uW/MHz}$
5480.0MHz ~ 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

W56, 20MHz

Frequencies (MHz)	Limit
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz ~ 5455.0MHz	$\leq 2.5 \text{ uW/MHz}$
5745.0MHz ~ 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

W56, 40MHz

Frequencies (MHz)	Limit
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz ~ 5420.0MHz	$\leq 2.5 \text{ uW/MHz}$
5760.0MHz ~ 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

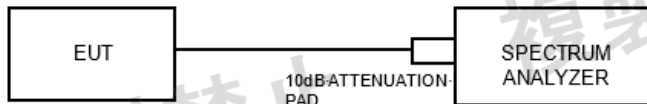
W56, 80MHz

Frequencies (MHz)	Limit
30.0MHz to 1000.0MHz	$\leq 0.25 \text{ uW/100kHz}$
1000.0MHz ~ 5340.0MHz	$\leq 2.5 \text{ uW/MHz}$
5800.0MHz ~ 26000.0MHz	$\leq 2.5 \text{ uW/MHz}$

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5.3.2 Test Setup



5.3.3 Conditions of the measuring instrument

- (1) The spectrum analyzer when searching for **unwanted emissions** is set as follows.
- | | |
|-----------------------|---|
| Sweep frequency width | 30MHz to 26GHz (Note) |
| Resolution bandwidth | 1MHz |
| Video bandwidth | Same as resolution bandwidth |
| Y-axis scale | 10dB/Div |
| Input level | Maximum dynamic range value |
| Sweep time | The minimum time for which measurement accuracy is guaranteed (in the case of burst waves, it can be longer than the time obtained by "(sweep frequency width (MHz))/resolution bandwidth (MHz)) × burst period (s)". It can be longer than the time required |
| Number of data points | 400 or more data points |
| Sweep mode | Single sweep |
| Detection mode | positive peak |
- (2) Set the spectrum analyzer as follows when measuring unwanted emission amplitude.
- | | |
|-----------------------|---|
| Center frequency | Unwanted emission frequency (searched frequency) |
| Sweep frequency width | 0Hz |
| Resolution bandwidth | 1MHz |
| Video bandwidth | Same as resolution bandwidth |
| Y-axis scale | 10dB/Div |
| Input level | Maximum dynamic range value |
| Sweep time | The minimum time for which the measurement accuracy is guaranteed (in the case of burst waves, the duration of one burst or more) |
| Number of data points | 400 or more data points |
| Sweep mode | Single sweep |
| Detection mode | sample |

6 Others

- (1) In 2(2), the detection mode of the spectrum analyzer at the time of amplitude measurement can use RMS (referred to as the true value of power) instead of sampling.
- (2) In (1), if the burst time rate (Note) of unwanted emission is obtained for each unwanted emission frequency, the sweep frequency width can be set to about 10 MHz in (2).

Note: Burst time rate = time during which radio waves are emitted/burst period

5.3.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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5.4 Out-Band Leakage Power

5.4.1 Limits of Out-Band Leakage Power (EIRP)

W52, 20MHz

Frequencies (MHz)	Limit
OBW $\leq$ 18MHz	
$5140.0 \leq f_o \leq 5142.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$
$5142.0 < f_o \leq 5150.0\text{MHz}$	$\leq 15.0 \text{ uW/MHz}$
$5250.0 \leq f_o < 5251.0\text{MHz}$	$\leq 10.0^{1-(f-9)} \text{ mW/MHz}$
$5251.0 \leq f_o < 5260.0\text{MHz}$	$\leq 10.0^{1-(8/90)(f-11)} \text{ mW/MHz}$
$5260.0 \leq f_o < 5266.7\text{MHz}$	$\leq 10.0^{-1.8-(6/50)(f-20)} \text{ mW/MHz}$
$5266.7 \leq f_o \leq 5360.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$
18MHz < OBW < 19MHz	
$5135.0 \leq f_o \leq 5142.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$
$5142.0 < f_o \leq 5150.0\text{MHz}$	$\leq 15.0 \text{ uW/MHz}$
$5250.0 \leq f_o < 5251.0\text{MHz}$	$\leq 10.0^{1-(f-9)} \text{ mW/MHz}$
$5251.0 \leq f_o < 5260.0\text{MHz}$	$\leq 10.0^{1-(8/90)(f-11)} \text{ mW/MHz}$
$5260.0 \leq f_o < 5266.7\text{MHz}$	$\leq 10.0^{-1.8-(6/50)(f-20)} \text{ mW/MHz}$
$5266.7 \leq f_o \leq 5365.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$

W52, 40MHz

Frequencies (MHz)	Limit
$5100.0 \leq f_o \leq 5141.6\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$
$5141.6 < f_o \leq 5150.0\text{MHz}$	$\leq 15.0 \text{ uW/MHz}$
$5250.0 \leq f_o < 5251.0\text{MHz}$	$\leq 10.0^{-(f-20)+\log(1/2)} \text{ mW/MHz}$
$5251.0 \leq f_o < 5270.0\text{MHz}$	$\leq 10.0^{-(8/190)(f-21)-1+\log(1/2)} \text{ mW/MHz}$
$5270.0 \leq f_o < 5278.4\text{MHz}$	$\leq 10.0^{-(3/50)(f-40)-1.8+\log(1/2)} \text{ mW/MHz}$
$5278.4 \leq f_o \leq 5400.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$

W52, 80MHz

Frequencies (MHz)	Limit
$5020.0 \leq f_o \leq 5123.2\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$
$5123.2 < f_o \leq 5150.0\text{MHz}$	$\leq 15.0 \text{ uW/MHz}$
$5250.0 \leq f_o < 5251.0\text{MHz}$	$\leq 10.0^{-(f-40)+\log(1/4)} \text{ mW/MHz}$
$5251.0 \leq f_o < 5290.0\text{MHz}$	$\leq 10.0^{-(8/390)(f-41)-1+\log(1/4)} \text{ mW/MHz}$
$5290.0 \leq f_o < 5296.7\text{MHz}$	$\leq 10.0^{-(3/100)(f-80)-1.8+\log(1/4)} \text{ mW/MHz}$
$5296.7 \leq f_o \leq 5480.0\text{MHz}$	$\leq 2.5 \text{ uW/MHz}$

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W53, 20MHz

Frequencies (MHz)	Limit
OBW $\leq$ 18MHz	
$5140.0 \leq f_o \leq 5233.3\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5233.3 < f_o \leq 5240.0\text{MHz}$	$\leq 10.0^{-1.8-(6/50)(f-20)}\text{mW/MHz}$
$5240.0 < f_o \leq 5249.0\text{MHz}$	$\leq 10.0^{-1-(8/90)(f-11)}\text{mW/MHz}$
$5249.0 < f_o \leq 5250.0\text{MHz}$	$\leq 10.0^{1-(f-9)}\text{mW/MHz}$
$5350.0 \leq f_o \leq 5360.0\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
18MHz < OBW < 19MHz	
$5135.0 \leq f_o \leq 5233.3\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5233.3 < f_o \leq 5240.0\text{MHz}$	$\leq 10.0^{-1.8-(6/50)(f-20)}\text{mW/MHz}$
$5240.0 < f_o \leq 5249.0\text{MHz}$	$\leq 10.0^{-1-(8/90)(f-11)}\text{mW/MHz}$
$5249.0 < f_o \leq 5250.0\text{MHz}$	$\leq 10.0^{1-(f-9)}\text{mW/MHz}$
$5350.0 \leq f_o \leq 5365.0\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$

W53, 40MHz

Frequencies (MHz)	Limit
$5100.0 \leq f_o \leq 5210.0\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5210.0 < f_o \leq 5221.6\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5221.6 < f_o \leq 5230.0\text{MHz}$	$\leq 10.0^{-(3/50)(f-40)-1.8+\log(1/2)}\text{mW/MHz}$
$5230.0 < f_o \leq 5249.0\text{MHz}$	$\leq 10.0^{-(8/190)(f-21)-1+\log(1/2)}\text{mW/MHz}$
$5249.0 < f_o \leq 5250.0\text{MHz}$	$\leq 10.0^{-(f-20)+\log(1/2)}\text{mW/MHz}$
$5350.0 \leq f_o < 5358.4\text{MHz}$	$\leq 15 \mu\text{W/MHz}$
$5358.4 \leq f_o \leq 5400.0\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$

W53, 80MHz

Frequencies (MHz)	Limit
$5020.0 \leq f_o \leq 5203.3\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5203.3 < f_o \leq 5210.0\text{MHz}$	$\leq 10.0^{-(3/100)(f-80)-1.8+\log(1/4)}\text{mW/MHz}$
$5210.0 < f_o \leq 5249.0\text{MHz}$	$\leq 10.0^{-(8/390)(f-41)-1+\log(1/4)}\text{mW/MHz}$
$5249.0 < f_o \leq 5250.0\text{MHz}$	$\leq 10.0^{-(f-40)+\log(1/4)}\text{mW/MHz}$
$5350.0 \leq f_o < 5376.8\text{MHz}$	$\leq 15 \mu\text{W/MHz}$
$5376.8 \leq f_o \leq 5480.0\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$

W56, 20MHz

Frequencies (MHz)	Limit
$5455 \leq f_o \leq 5460\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$
$5460 < f_o \leq 5470\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$
$5725 \leq f_o < 5740\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$
$5740 \leq f_o \leq 5745\text{MHz}$	$\leq 2.5 \mu\text{W/MHz}$

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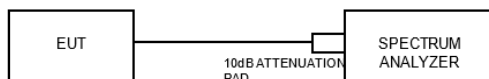
W56, 40MHz

Frequencies (MHz)	Limit
$5420 \leq f_o \leq 5460\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$
$5460 < f_o \leq 5470\text{MHz}$	$\leq 50 \mu\text{W/MHz}$
$5725 \leq f_o \leq 5760\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$

W56, 80MHz

Frequencies (MHz)	Limit
$5340 \leq f_o \leq 5460\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$
$5460 < f_o \leq 5469.5\text{MHz}$	$\leq 50 \mu\text{W/MHz}$
$5469.5 < f_o \leq 5470\text{MHz}$	$\leq 51.2 \mu\text{W/MHz}$
$5725 \leq f_o \leq 5800\text{MHz}$	$\leq 12.5 \mu\text{W/MHz}$

5.4.2 Test Setup



5.4.3 Conditions of the measuring instrument

- (1) Use a carrier suppression filter as necessary.
- (2) The settings of the spectrum analyzer when searching for spurious are as follows.

Sweep frequency width	Search for spurious from the lowest possible frequency to three times or more of the carrier frequency.
Resolution bandwidth	100 kHz below 1 GHz, 1 MHz above 1 GHz
Video bandwidth	Same as resolution bandwidth
Y-axis scale	10dB/Div
Input level	Maximum dynamic range value
Sweep time	Minimum time for guaranteed measurement accuracy
Number of data points	400 or more data points
Sweep mode	Single sweep
Detection mode	positive peak
- (3) Set the spectrum analyzer for spurious measurement as follows.

Center frequency	Searched spurious frequency
Sweep frequency	0Hz
Resolution bandwidth	10 kHz below 30 MHz, 100 kHz between 30 MHz and 1 GHz, 1 MHz above 1 GHz
Video bandwidth	Same as resolution bandwidth
Y-axis scale	10dB/Div
Input level	Set the amplitude of the carrier wave near the maximum in the linear region of the mixer.
Sweep time	Minimum time for guaranteed measurement accuracy
Number of data points	400 or more data points
Sweep mode	Single sweep
Detection mode	sample

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5.4.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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Test Report No.:

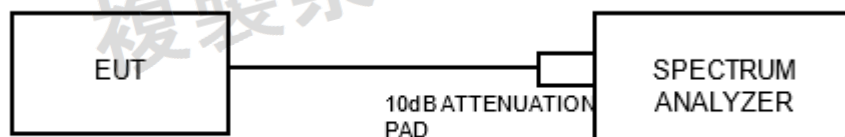
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5.5 Adjacent Channel Leakage Power

5.5.1 Limits of Adjacent Channel Leakage Power

Adjacent Channel Power Limit
(BWch 20MHz & CP/OBW≤18MHz) - $f_{c\pm 20\text{MHz}} \geq 25\text{dB}$; $f_{c\pm 40\text{MHz}} \geq 40\text{dB}$
(BWch 20MHz & CP/OBW≤19MHz) - $f_{c\pm 20\text{MHz}} \geq 25\text{dB}$; $f_{c\pm 40\text{MHz}} \geq 40\text{dB}$
(BWch 40MHz & CP/OBW≤38MHz) - $f_{c\pm 40\text{MHz}} \geq 25\text{dB}$; $f_{c\pm 80\text{MHz}} \geq 40\text{dB}$
(BWch 80MHz & CP/OBW≤78MHz) - $f_{c\pm 80\text{MHz}} \geq 25\text{dB}$
(BWch 80+80MHz & CP/OBW≤78MHz) - $f_{c\pm 80\text{MHz}} \geq 25\text{dB}$
(BWch 160MHz & CP/OBW≤158MHz) - N/A

5.5.2 Test Setup



5.5.3 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

Prüfbericht - Nr.: CN262E5M 003
Test Report No.:

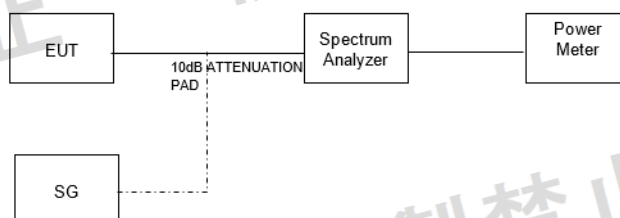
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5.6 Antenna Power Measurement

5.6.1 Limits of Antenna Power

Antenna Power Limit (mW/MHz)
W52/W53/W56: (BWch 20MHz) - ≤ 10 ; (BWch 40MHz) - ≤ 5 ; (BWch 80MHz) - ≤ 2.5 ; (BWch 160MHz) - ≤ 1.25 ;
Antenna Power Error Limit (%)
W52/W53: +20% ~ -80%; W56: +50% ~ -50%
EIRP Limit (mW/MHz)
W52 (BWch 20MHz) - ≤ 10 ; (BWch 40MHz) - ≤ 5 ; (BWch 80MHz) - ≤ 2.5 ; (BWch 160MHz) - ≤ 1.25 W53 with TPC (BWch 20MHz) - ≤ 10 ; (BWch 40MHz) - ≤ 5 ; (BWch 80MHz) - ≤ 2.5 ; (BWch 160MHz) - ≤ 1.25 W53 w/o TPC (BWch 20MHz) - ≤ 5 ; (BWch 40MHz) - ≤ 2.5 ; (BWch 80MHz) - ≤ 1.25 ; (BWch 160MHz) - ≤ 0.625 W56 with TPC (BWch 20MHz) - ≤ 50 ; (BWch 40MHz) - ≤ 25 ; (BWch 80MHz) - ≤ 12.5 ; (BWch 160MHz) - ≤ 6.25 W56 w/o TPC (BWch 20MHz) - ≤ 25 ; (BWch 40MHz) - ≤ 12.5 ; (BWch 80MHz) - ≤ 6.25 ; (BWch 160MHz) - ≤ 3.125

5.6.2 Test Setup



Note: A high-frequency power meter is directly connected to the output of a dummy load (attenuator) when measuring the total power of a system other than the orthogonal frequency division multiplexing system or the spread spectrum system using direct spreading.

5.6.3 Condition of Measuring Instrument

- (1) Measure the equivalent noise bandwidth at the resolution bandwidth of 1 MHz of the spectrum analyzer, correct the bandwidth to the 1 MHz equivalent bandwidth, and read the displayed value. However, when the spread bandwidth is 1 MHz or less, correction shall be performed only when "spread bandwidth (MHz)/equivalent noise bandwidth (MHz)" exceeds 1.
- (2) The attenuation of the dummy load (attenuator) shall be the value that gives the optimum operating input level to the spectrum analyzer.
- (3) Set the spectrum analyzer as follows when searching for the frequency that gives the maximum antenna power.

Center frequency:	Test frequency
Sweep frequency width:	About twice the occupied frequency bandwidth
Resolution bandwidth:	1MHz
Video bandwidth:	About three times the resolution bandwidth
Sweep time:	Minimum time for guaranteed measurement accuracy
(In the case of burst waves, the time at which one or more bursts are included per sample)	

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Trigger condition: Free run
Sweep mode: Continuous sweep
Detection mode: positive peak
Display mode: Max hold

- (4) Set the spectrum analyzer as follows when measuring the antenna power.
- | | |
|------------------------|---|
| Center frequency | The frequency that gives the maximum power (searched frequency) |
| Sweep frequency width: | 0Hz |
| Resolution bandwidth: | 1MHz |
| Video bandwidth : | Same as resolution bandwidth |
| Sweep mode: | Continuous sweep |

5.6.4 Condition of Test Equipment

- (1) Set to the test frequency and enter the continuous transmission state or continuous burst transmission state.
- (2) If a spread code is used, set it to the test spread code and modulate it with the standard coded test signal.
- (3) If the orthogonal frequency division multiplexing system is used, it shall be in a burst transmission state and in a modulation state in which the proportion of time in which the number of subcarriers is the smallest is maximized. At this time, it is performed within a range that can occur continuously in the actual operation. However, when the modulation cannot be set, it can be performed in continuous burst transmission state or continuous transmission state.

5.6.5 Measurement Procedure

- (1) **Those using frequency hopping method (including DSSS or composite method with OFDM)**
 - a. Confirming in the submitted document that the frequency hopping intervals in the frequency distribution of frequency hopping are equal intervals of 1 MHz or less, and that the probability of occurrence at each hopping frequency is uniform, and that the probability of occurrence at each hopping frequency is uniform. If it is, it is implemented by the following method.
 - (a) Connect a high frequency power meter to the output of the dummy load (attenuator) and measure the total power.
 - (b) Divide the total power by the spreading bandwidth to calculate the average power per 1 MHz.
 - (c) Antenna power shall be as follows.
 - A Value of (b) for continuous wave
 - B For burst wave Average power in burst is calculated from the value of (b) and the transmission time rate.
 - b. If the frequency distribution of frequency hopping or the probability of occurrence at each hopping frequency is not uniform, set the spectrum analyzer as in 2(3) to search for the frequency that gives the maximum antenna power, and then perform spectrum analysis. Set the device as in 2(4), and measure the antenna power at the frequency that gives the maximum power.
- (2) **In the case of those using OFDM or DSSS**
 - a. Set the spectrum analyzer as in 2(3).
 - b. After repeating the sweep until no change is observed in the display, measure the frequency at which the power per 1 MHz gives the maximum value.
 - c. Set the spectrum analyzer as in 2(4).
 - d. Connect the high frequency power meter to the IF output terminal of the spectrum analyzer.
 - e. Antenna power shall be as follows.
 - (a) For continuous wave: The value corrected by 2(1) from the indication of the high-frequency power meter
 - (b) Burst wave: Calculated average power in a burst from values corrected in the same way as for continuous waves and the transmission time rate
 - f. In the case of using the orthogonal frequency division multiplexing system, when there are multiple subcarrier modulation systems, measure the antenna power at each time and take the largest value as the measured value.

- (3) **In the case of items using other methods**

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- (a) Connect a high-frequency power meter to the output of the dummy load (attenuator) and measure the total power.
- (b) Antenna power shall be as follows.
 - a. Value of a for continuous wave
 - b. Burst wave The average power in the burst is calculated from the value of (a) and the transmission time rate.

5.6.6 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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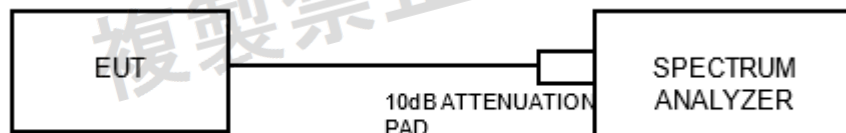
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5.7 Spurious Emissions for Receiver

5.7.1 Limits of Spurious Emissions for Receiver

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

5.7.2 Test Setup



5.7.3 Measurement Procedure

- (1) Set the spectrum analyzer as follows when searching.
Sweep frequency width: 30MHz to 5 times the carrier frequency
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: positive peak
- (2) Set the spectrum analyzer for secondary emission measurement as follows.
Center frequency: Secondary emission frequency
Sweep frequency width: 0Hz
Resolution bandwidth: 100 kHz for frequencies below 1 GHz, 1 MHz for frequencies above 1 GHz
Video bandwidth: Same as resolution bandwidth
Sweep time: Minimum time for guaranteed measurement accuracy
Sweep mode: Single sweep
Detection mode: sample

5.7.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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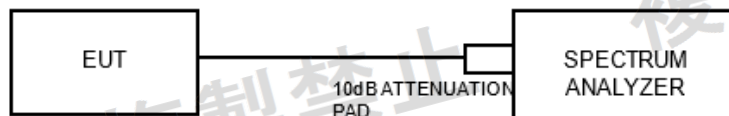
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5.8 Burst Length

5.8.1 Limits of Burst Length

Frequencies (MHz)	Limit
Transmitter Operating	$\leq 4\text{ms}$

5.8.2 Test Setup



5.8.3 Measuring instrument conditions, etc.

Set the spectrum analyzer as follows.

Center frequency	Measurement hopping frequency
Sweep frequency width	0Hz
Resolution bandwidth	about 1MHz
Video bandwidth	Same as resolution bandwidth
Sweep time	Hopping period
Trigger condition	Video trigger
Sweep mode	Single sweep
Detection mode	positive peak.

3 Condition of test equipment

Set to the test frequency and test spreading code and modulate with the standard coded test signal.

5.8.4 Test Results

Result **PASS**

For the measurement records, refer to the appendix A.

Remark: This testing was carried out on all operation modes, but only the worst case was presented in this report.

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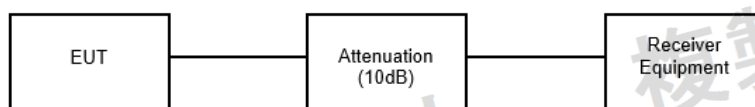
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5.9 Interference Prevention Function

5.9.1 Limits of Interference Prevention Function

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

5.9.2 Test Setup



5.9.3 Condition of Measuring Instrument

- (1) The demodulator shall be able to demodulate the transmission signal sent by EUT and display the content of the identification code.
- (2) The counterpart device shall be capable of transmitting the same identification code as the transmission signal transmitted by EUT.
- (3) Condition of test equipment
Normal use condition.

5.9.4 Measurement procedure

- (1) When EUT has a function to automatically transmit an identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the test equipment.
 - b) Check the identification code sent by the demodulator.
- (2) When the test equipment has a function to automatically receive the identification code
 - a) Transmit the identification code specified in the Equipment Regulations from the counterpart device.
 - b) Confirm that communication is performed with the EUT using the dedicated jig.
 - c) Transmit a code different from the identification code specified in the Equipment Regulations from the counterpart device.
 - d) Confirm that EUT stops transmission or displays that the identification code is different.

5.9.5 How to describe test results

- (1) When EUT has a function to automatically transmit an identification code
If the code stipulated in the equipment rule and the demodulated code are the same, it is described as "passed", and if they are different, it is described as "failed".
- (2) When the test equipment has a function to automatically receive the identification code
If the received code is the code stipulated in the equipment regulations, normal reception is performed, and if the code is different from the code stipulated in the equipment regulations, a message indicating that the code is different is displayed. "No" shall be entered in other case.

5.9.6 Test Results

Result **PASS**

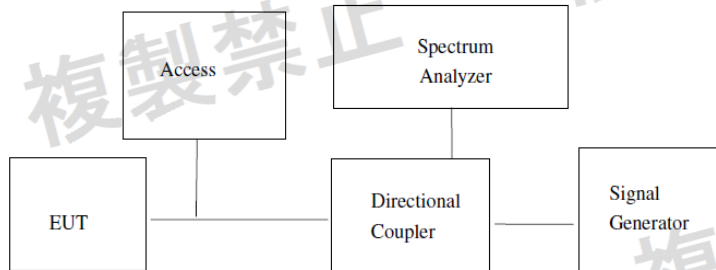
For the measurement records, refer to the appendix A.

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5.10 Carrier Sensing

5.10.1 Test Setup



5.10.2 Measurement procedure

- (a) Link EUT and Access Point to Directional Coupler input port.
- (b) Link Signal Generator and Spectrum Analyzer to test port and output port in the Directional Coupler separately.
- (c) A positive Peak Detector function in Spectrum Analyzer must be used.
- (d) Set the Span to Zero.

Press the Signal Generator on and it will output the Carrier Signal. When the Link breaks off, wait a minute and press the Signal Generator off. After a while, reset the Link and done the test.

Signal Generator Power Level (dBm) = $22.79 + G - 20\log(F)$
G: Antenna Gain
F: operation frequency

5.10.3 Test Results

Result **PASS**

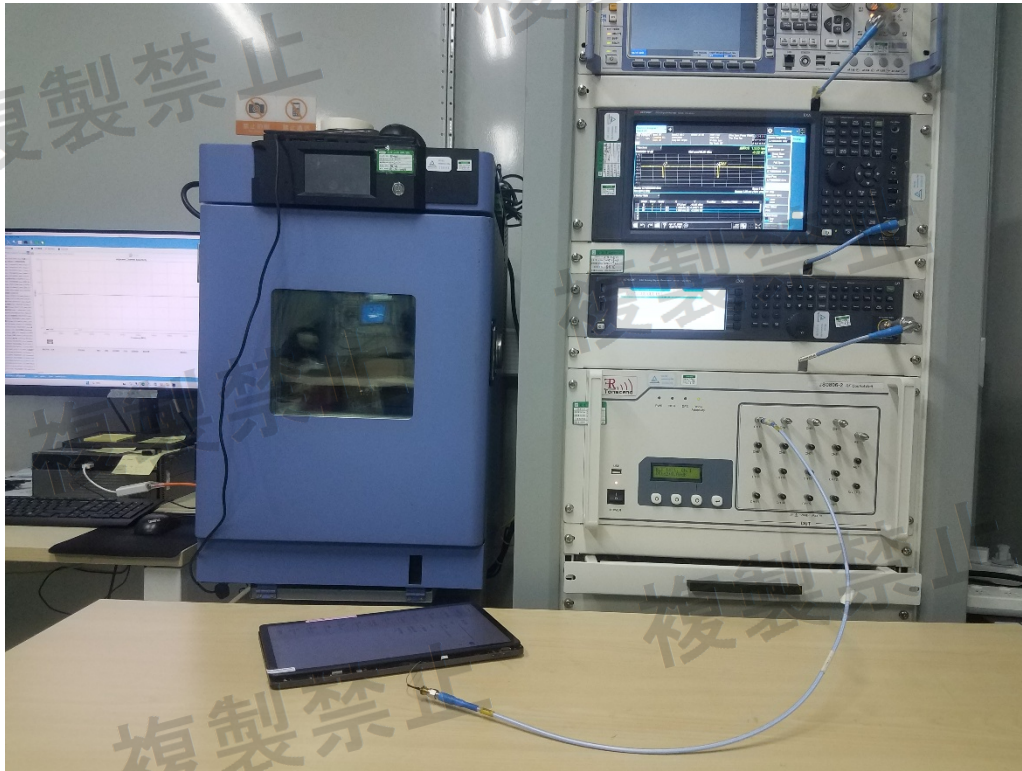
For the measurement records, refer to the appendix A.

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6 Photographs of the Test Configuration

Photograph 1: Set-up for Radio Spectrum Testing





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Appendix A.1: Test Results of Frequency Tolerance

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	CenterFreq [MHz]	Result [ppm]	Limit [ppm]	Verdict
NTNV	11AC20SISO	Ant1	5180	5179.919	-15.63707	±20	PASS
			5200	5199.919	-15.57692	±20	PASS
			5240	5239.918	-15.64886	±20	PASS
	11AC40SISO	Ant1	5190	5189.918	-15.79962	±20	PASS
			5230	5229.918	-15.67878	±20	PASS
	11AC80SISO	Ant1	5210	5209.918	-15.73896	±20	PASS

Appendix A.2: Test Results of Antenna Power

Test Result

Antenna Power							
Test Condition	TestMode	Antenna	Frequency [MHz]	Result (dBm/MHz)	Result (mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11A	Ant1	5180	0.02	1.0046	≤10	PASS
			5200	1.55	1.4289	≤10	PASS
			5240	1.48	1.4060	≤10	PASS
	11N20SISO	Ant1	5180	0.52	1.1272	≤10	PASS
			5200	0.93	1.2388	≤10	PASS
			5240	0.60	1.1482	≤10	PASS
	11N40SISO	Ant1	5190	-2.15	0.6095	≤5	PASS
			5230	-2.35	0.5821	≤5	PASS
	11AC20SISO	Ant1	5180	0.33	1.0789	≤10	PASS
			5200	0.78	1.1967	≤10	PASS
			5240	0.58	1.1429	≤10	PASS
	11AC40SISO	Ant1	5190	-2.23	0.5984	≤5	PASS
			5230	-2.23	0.5984	≤5	PASS
	11AC80SISO	Ant1	5210	-5.61	0.2748	≤2.5	PASS

Tolerance								
Test Condition	Test Mode	Antenna	Frequency [MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11A	Ant1	5180	1.0046	3	-66.51	-80 to +20	PASS
			5200	1.4289	3	-52.37	-80 to +20	PASS
			5240	1.4060	3	-53.13	-80 to +20	PASS
	11N20SISO	Ant1	5180	1.1272	3	-62.43	-80 to +20	PASS
			5200	1.2388	3	-58.71	-80 to +20	PASS
			5240	1.1482	3	-61.73	-80 to +20	PASS
	11N40SISO	Ant1	5190	0.6095	2	-69.53	-80 to +20	PASS
			5230	0.5821	2	-70.90	-80 to +20	PASS
	11AC20SISO	Ant1	5180	1.0789	3	-64.04	-80 to +20	PASS
			5200	1.1967	3	-60.11	-80 to +20	PASS
			5240	1.1429	3	-61.90	-80 to +20	PASS
	11AC40SISO	Ant1	5190	0.5984	2	-70.08	-80 to +20	PASS
			5230	0.5984	2	-70.08	-80 to +20	PASS
	11AC80SISO	Ant1	5210	0.2748	1	-72.52	-80 to +20	PASS

EIRP							
Test Condition	TestMode	Antenna	Frequency [MHz]	Result (dBm/MHz)	EIRP(mW/MHz)	Limit (mW/MHz)	Verdict
NTNV	11A	Ant1	5180	4.38	2.742	≤10	PASS
			5200	5.91	3.899	≤10	PASS
			5240	5.84	3.837	≤10	PASS
	11N20SISO	Ant1	5180	4.88	3.076	≤10	PASS
			5200	5.29	3.381	≤10	PASS
			5240	4.96	3.133	≤10	PASS
	11N40SISO	Ant1	5190	2.21	1.663	≤5	PASS
			5230	2.01	1.589	≤5	PASS
	11AC20SISO	Ant1	5180	4.69	2.944	≤10	PASS
			5200	5.14	3.266	≤10	PASS
			5240	4.94	3.119	≤10	PASS
	11AC40SISO	Ant1	5190	2.13	1.633	≤5	PASS
			5230	2.13	1.633	≤5	PASS
	11AC80SISO	Ant1	5210	-1.25	0.750	≤2.5	PASS

Appendix A.3: Test Results of Occupied Channel Bandwidth (99%)

Test Result

Test Condition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11A	Ant1	5180	16.827	≤20	PASS
			5200	16.792	≤20	PASS
			5240	16.815	≤20	PASS
	11N20SISO	Ant1	5180	17.850	≤20	PASS
			5200	17.842	≤20	PASS
			5240	17.817	≤20	PASS
	11AC40SISO	Ant1	5190	36.096	≤40	PASS
			5230	36.080	≤40	PASS
	11AC80SISO	Ant1	5210	75.599	≤80	PASS

Test Graphs







Appendix A.4: Test Results of Spurious Emissions for Transmitter
Test Result

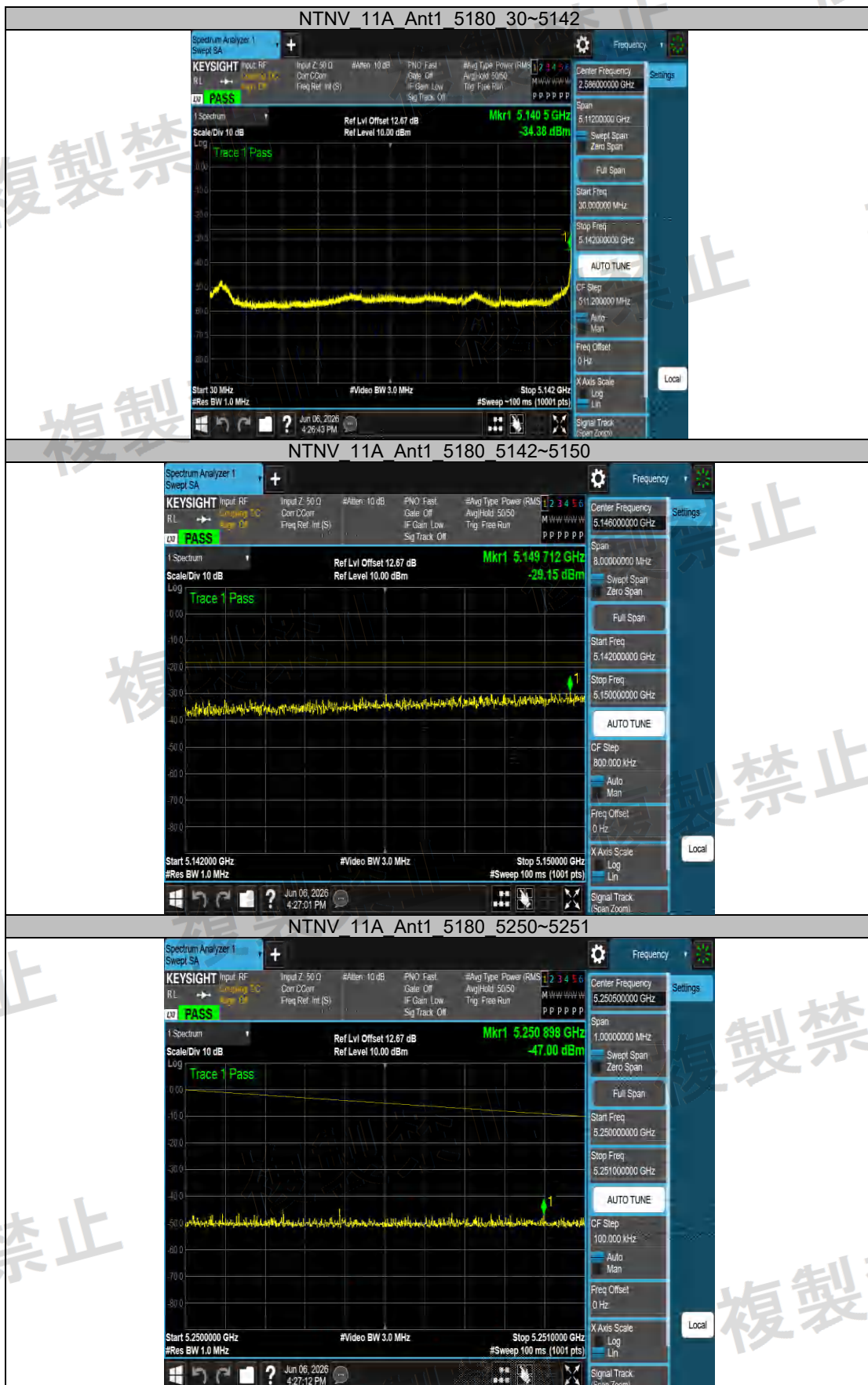
Test Condition	Test Mode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11A	Ant1	5180	30~5142	5140.47	-34.38	≤-26.02	0.99541	≤2.5	PASS
				5142~5150	5149.71	-29.15	≤-18.24	3.31894	≤15	PASS
				5250~5251	5250.90	-47.00	≤-9	0.05445	≤125.9	PASS
				5251~5260	5259.78	-47.35	≤-17.8	0.05023	≤16.6	PASS
				5260~5266.7	5260.48	-46.60	≤-18	0.05970	≤15.8	PASS
				5266.7~26000	10358.11	-37.25	≤-26.02	0.51404	≤2.5	PASS
			5200	30~5142	5135.35	-46.13	≤-26.02	0.06653	≤2.5	PASS
				5142~5150	5147.66	-37.66	≤-18.24	0.46774	≤15	PASS
				5250~5251	5250.95	-37.37	≤-9.5	0.50003	≤112.2	PASS
				5251~5260	5255.82	-37.33	≤-14.28	0.50466	≤37.3	PASS
				5260~5266.7	5260.74	-42.17	≤-18	0.16558	≤15.8	PASS
				5266.7~26000	10402.34	-34.32	≤-26.02	1.00925	≤2.5	PASS
			5240	30~5142	179.78	-46.35	≤-26.02	0.06324	≤2.5	PASS
				5142~5150	5149.34	-46.87	≤-18.24	0.05610	≤15	PASS
				5250~5251	5250.93	-6.72	≤-9.3	580.76442	≤117.5	See table below
				5251~5260	5252.04	-15.03	≤-10.92	85.70378	≤80.8	See table below
				5260~5266.7	5261.15	-23.82	≤-18.01	11.32400	≤15.8	See table below
				5266.7~26000	5267.39	-37.65	≤-26.02	0.46881	≤2.5	PASS
	11N20S ISO	Ant1	5180	30~5142	5141.49	-32.37	≤-26.02	1.58125	≤2.5	See table below
				5142~5150	5149.79	-26.50	≤-18.24	6.10942	≤15	PASS
				5250~5251	5250.86	-44.03	≤-8.6	0.10789	≤138.0	PASS
				5251~5260	5259.12	-44.78	≤-17.22	0.09078	≤19.0	PASS
				5260~5266.7	5260.82	-48.17	≤-18	0.04159	≤15.8	PASS
				5266.7~26000	10356.03	-35.43	≤-26.02	0.78163	≤2.5	PASS
			5200	30~5142	5140.47	-43.31	≤-26.02	0.12735	≤2.5	PASS
				5142~5150	5149.10	-36.93	≤-18.24	0.55335	≤15	PASS
				5250~5251	5250.92	-37.65	≤-9.2	0.46881	≤120.2	PASS
				5251~5260	5259.24	-39.49	≤-17.32	0.30690	≤18.5	PASS
				5260~5266.7	5260.99	-41.26	≤-18.01	0.20417	≤15.8	PASS
				5266.7~26000	10396.81	-34.10	≤-26.02	1.06170	≤2.5	PASS
			5240	30~5142	166.49	-47.12	≤-26.02	0.05297	≤2.5	PASS
				5142~5150	5147.93	-46.63	≤-18.24	0.05929	≤15	PASS
				5250~5251	5250.95	-9.71	≤-9.5	291.74270	≤112.2	See table below
				5251~5260	5256.64	-19.73	≤-15.01	29.04023	≤31.5	See table below
				5260~5266.7	5260.51	-22.79	≤-18	14.35489	≤15.8	See table below
				5266.7~26000	5268.08	-40.39	≤-26.02	0.24946	≤2.5	PASS
	11AC40 SISO	Ant1	5190	30~5141.6	5141.6	-33.07	≤-26.02	1.34586	≤2.5	See table below
				5141.6~5150	5147.09	-22.73	≤-18.24	14.55459	≤15	See table below
				5250~5251	5250.98	-40.74	≤-12.81	0.23014	≤52.4	PASS
				5251~5270	5262.42	-44.24	≤-17.82	0.10280	≤16.5	PASS
				5270~5278.4	5276.14	-46.59	≤-24.69	0.05984	≤3.4	PASS
				5278.4~26000	25913.66	-50.36	≤-26.02	0.02512	≤2.5	PASS
			5230	30~5141.6	5141.09	-43.89	≤-26.02	0.11143	≤2.5	PASS
				5141.6~5150	5148.62	-36.00	≤-18.24	0.68549	≤15	PASS
				5250~5251	5250.99	-14.19	≤-12.91	103.99202	≤51.2	See table below
				5251~5270	5269.77	-27.24	≤-20.91	5.15229	≤8.1	See table below
	11AC80 SISO	Ant1	5210	5270~5278.4	5275.45	-30.43	≤-24.28	2.47172	≤3.7	See table below
				5278.4~26000	5279.78	-41.19	≤-26.02	0.20749	≤2.5	PASS
				30~5123.2	5115.56	-24.79	≤-26.02	9.05733	≤2.5	See table

				5132.5~5150	5147.22	-25.87	≤-18.24	7.06318	≤15	below
				5250~5251	5250.92	-24.19	≤-15.22	10.39920	≤30.1	PASS
				5251~5290	5283.02	-29.31	≤-22.59	3.19890	≤5.5	See table below
				5290~5296.7	5296.7	-31.36	≤-26.03	1.99526	≤2.5	See table below
				5296.7~26000	5298.77	-36.98	≤-26.02	0.54702	≤2.5	PASS

Test Result_Step2

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	11A	Ant1	5240	5250.36	-25.61	≤-9.5	7.49894	≤112	PASS
				5252.04	-25.93	≤-10.28	6.96627	≤94	PASS
				5261.15	-35.36	≤-18	0.79433	≤16	PASS
	11N20SISO	Ant1	5240	5250.01	-24.39	≤-8.7	9.93116	≤135	PASS
				5251.02	-29.83	≤-12.92	2.83792	≤51	PASS
				5260.51	-35.56	≤-18	0.75858	≤16	PASS
	11AC40SISO	Ant1	5190	5147.09	-42.00	≤-18.24	0.17219	≤15	PASS
				5250.27	-30.59	≤-11.81	2.38232	≤66	PASS
				5266.66	-36.83	≤-19.24	0.56624	≤8.1	PASS
	11AC80SISO	Ant1	5230	5270.39	-39.19	≤-21.03	0.32885	≤8	PASS
				5081.44	-48.50	≤-26.02	0.03855	≤2.5	PASS
				5115.56	-40.62	≤-26.02	0.23659	≤2.5	PASS
				5283.02	-38.98	≤-23.33	0.34514	≤5	PASS
				5293.61	-40.22	≤-24.73	0.25942	≤3	PASS

Test Graphs









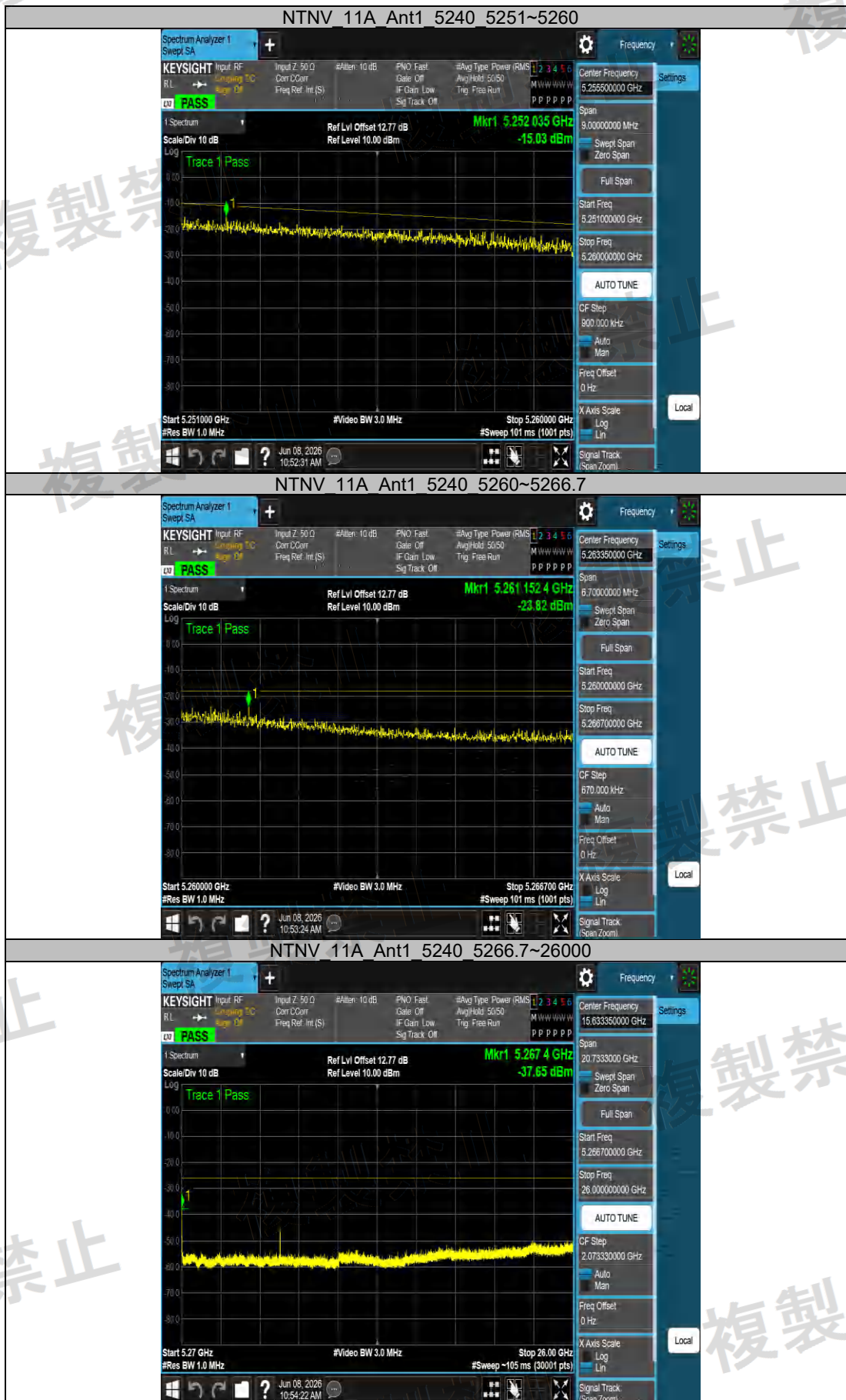
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Note: refer to test Graphs in step 2 for Final test















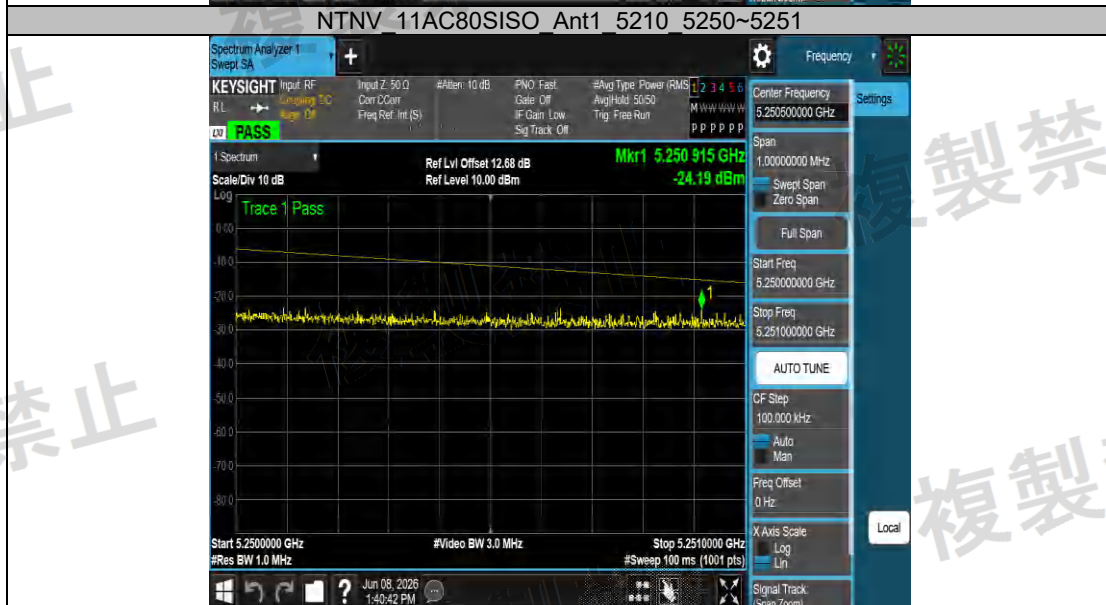
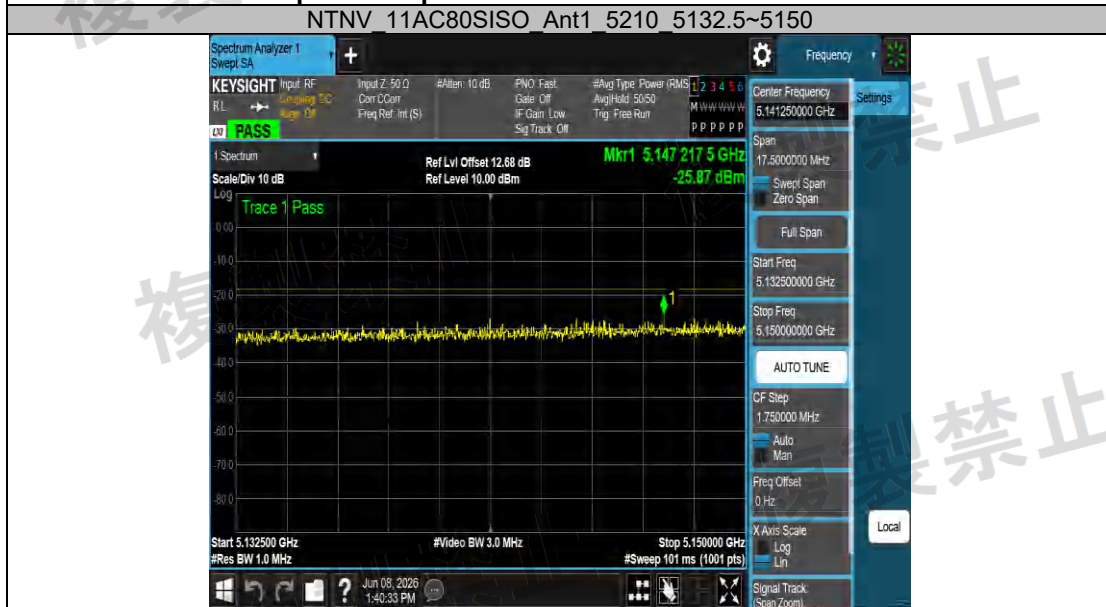






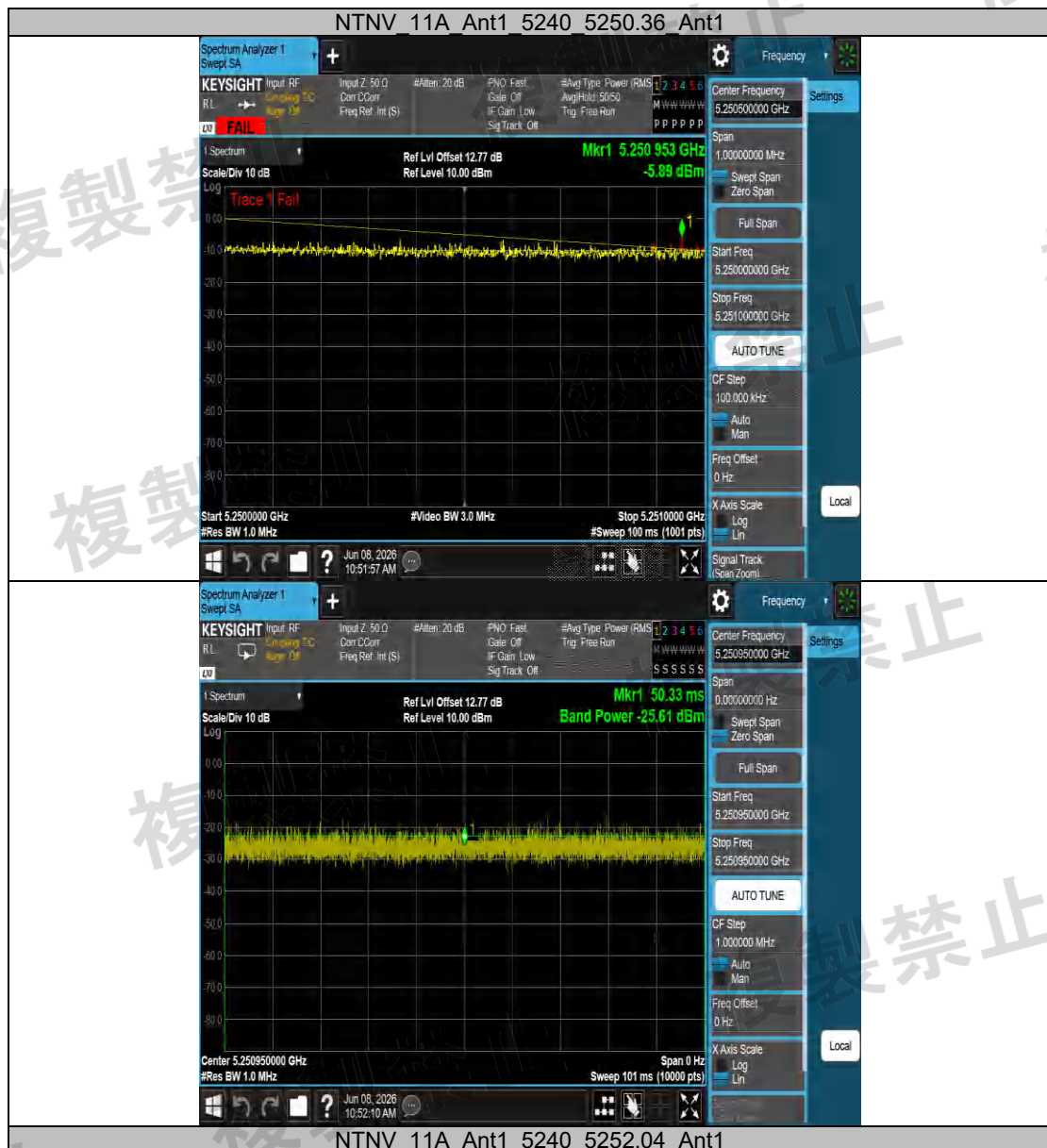


Note: refer to test Graphs in step 2 for Final test





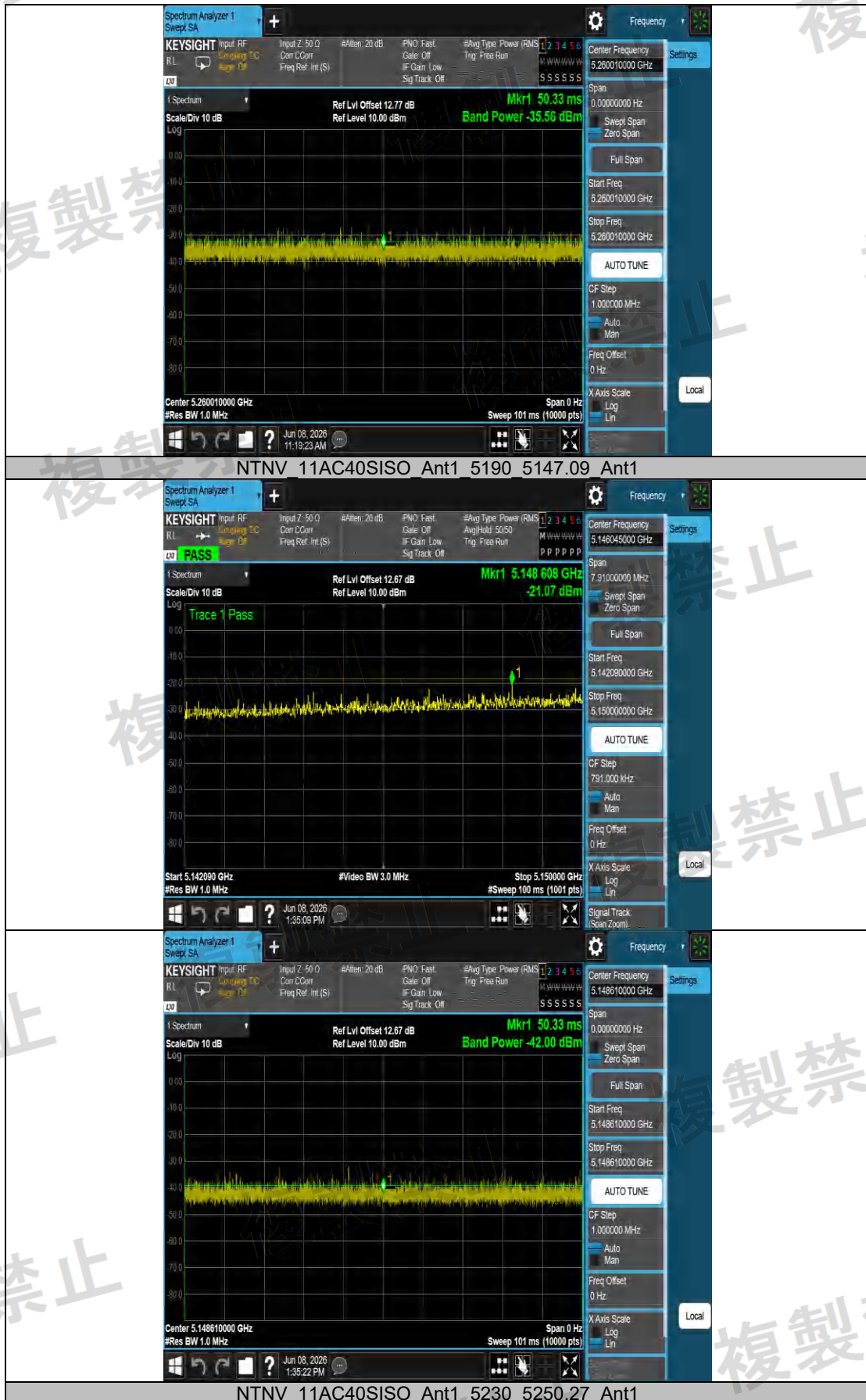
Test Graphs_Step2























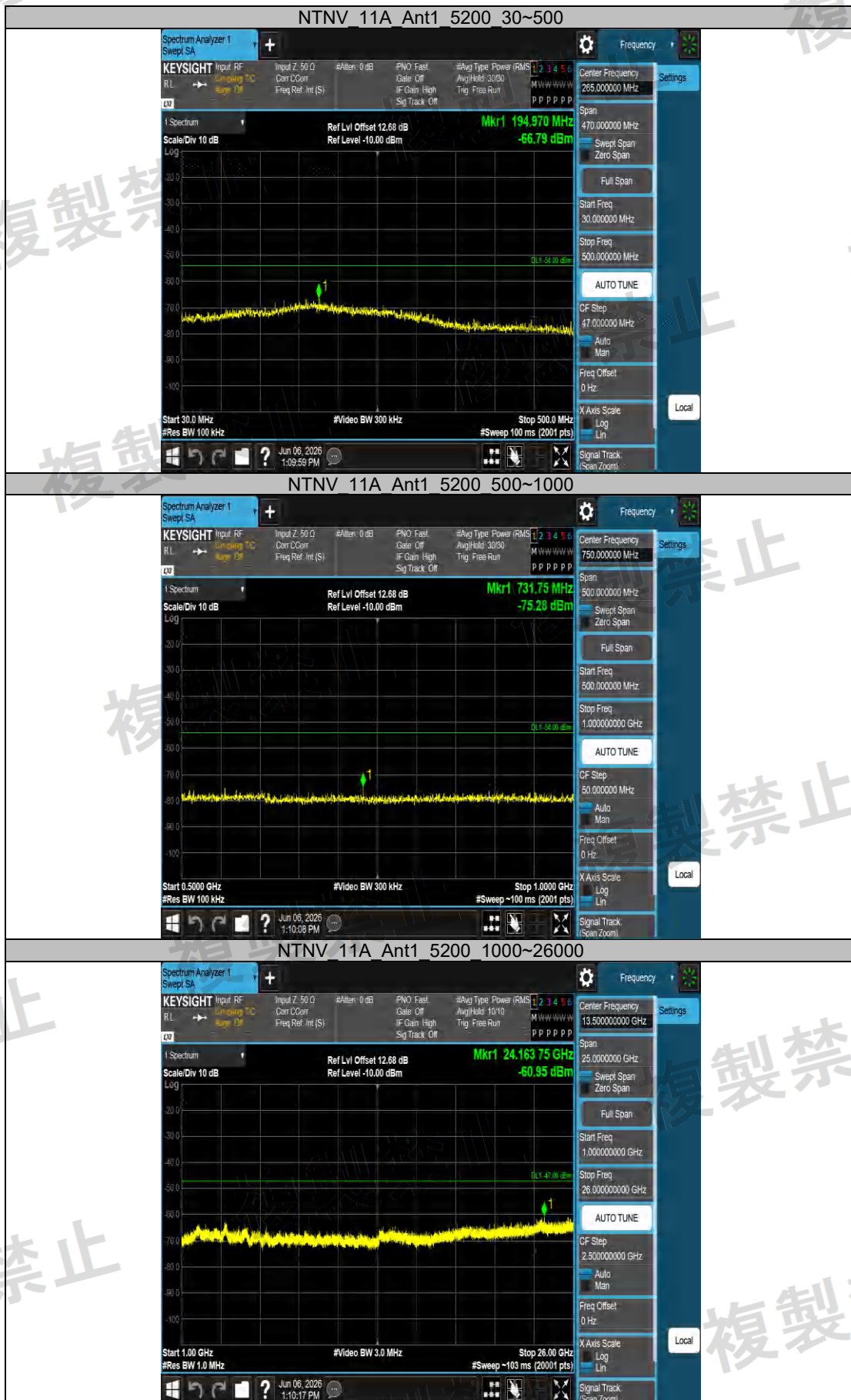
Appendix A.5: Test Results of Spurious Emissions for Receiver

Test Result

Test Condition	TestMode	Antenna	Frequen- cy[MHz]	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	11A	Ant1	5180	30~500	188.63	-67.29	≤-54	0.18664	≤4	PASS
				500~1000	731.75	-73.91	≤-54	0.04064	≤4	PASS
				1000~26000	24020.00	-60.70	≤-47	0.85114	≤20	PASS
			5200	30~500	194.97	-66.80	≤-54	0.20893	≤4	PASS
				500~1000	731.75	-75.28	≤-54	0.02965	≤4	PASS
				1000~26000	24163.75	-60.95	≤-47	0.80353	≤20	PASS
			5240	30~500	173.35	-67.56	≤-54	0.17539	≤4	PASS
				500~1000	731.75	-74.25	≤-54	0.03758	≤4	PASS
				1000~26000	24362.50	-60.57	≤-47	0.87700	≤20	PASS
	11N20SISO	Ant1	5180	30~500	182.99	-66.89	≤-54	0.20464	≤4	PASS
				500~1000	731.75	-74.61	≤-54	0.03459	≤4	PASS
				1000~26000	23953.75	-61.54	≤-47	0.70146	≤20	PASS
			5200	30~500	172.41	-67.40	≤-54	0.18197	≤4	PASS
				500~1000	731.75	-73.98	≤-54	0.03999	≤4	PASS
				1000~26000	23913.75	-60.54	≤-47	0.88308	≤20	PASS
			5240	30~500	228.34	-67.55	≤-54	0.17579	≤4	PASS
				500~1000	731.75	-75.16	≤-54	0.03048	≤4	PASS
				1000~26000	25648.75	-60.83	≤-47	0.82604	≤20	PASS
	11AC40SISO	Ant1	5190	30~500	193.33	-67.29	≤-54	0.18664	≤4	PASS
				500~1000	731.75	-73.95	≤-54	0.04027	≤4	PASS
				1000~26000	24126.25	-61.25	≤-47	0.74989	≤20	PASS
			5230	30~500	192.86	-66.97	≤-54	0.20091	≤4	PASS
				500~1000	731.75	-75.13	≤-54	0.03069	≤4	PASS
				1000~26000	25815.00	-61.27	≤-47	0.74645	≤20	PASS
	11AC80SISO	Ant1	5210	30~500	189.57	-66.89	≤-54	0.20464	≤4	PASS
				500~1000	731.75	-74.13	≤-54	0.03864	≤4	PASS
				1000~26000	23933.75	-60.66	≤-47	0.85901	≤20	PASS
				1000~26000	25741.25	-61.29	≤-47	0.74302	≤20	PASS

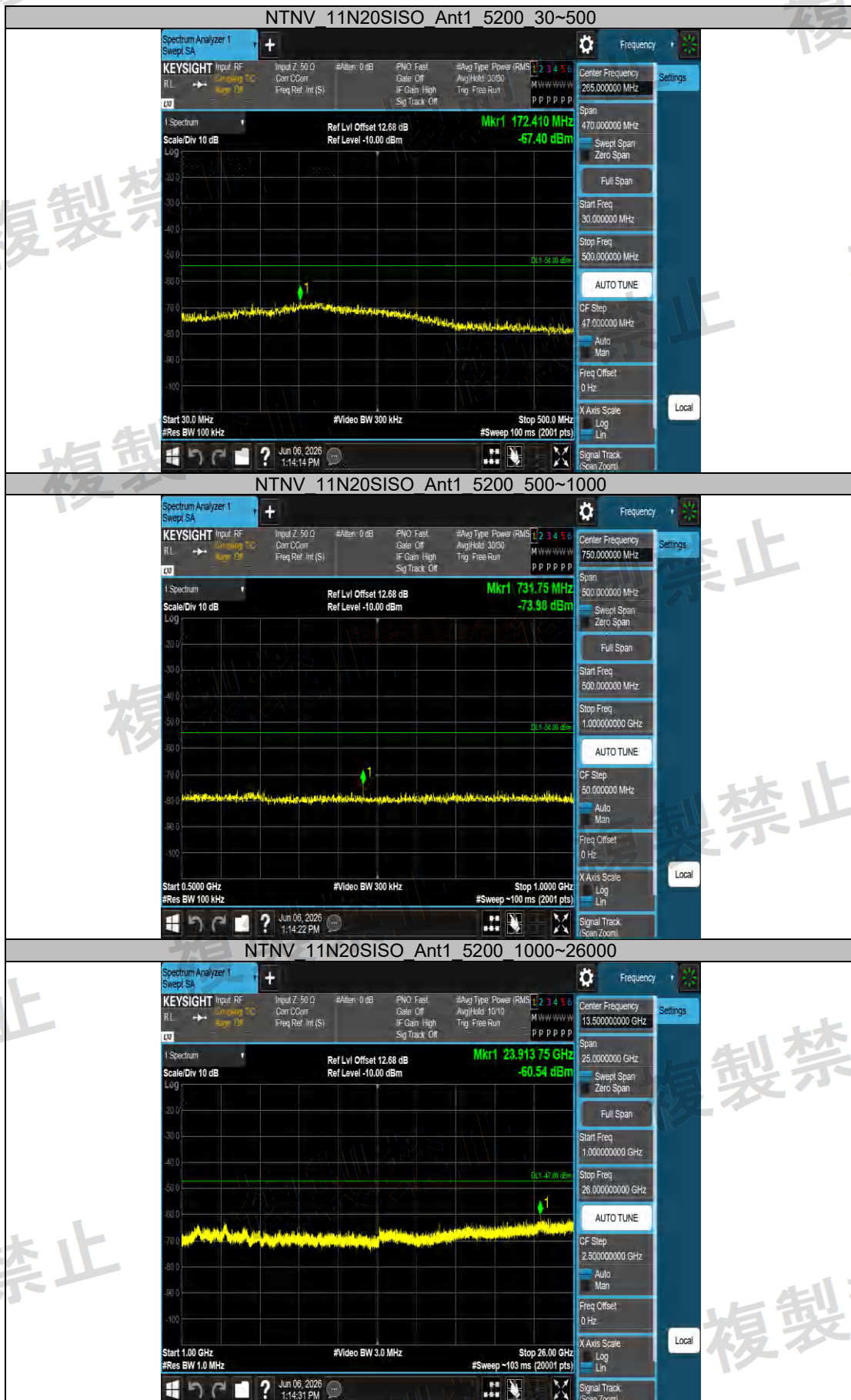
Test Graphs

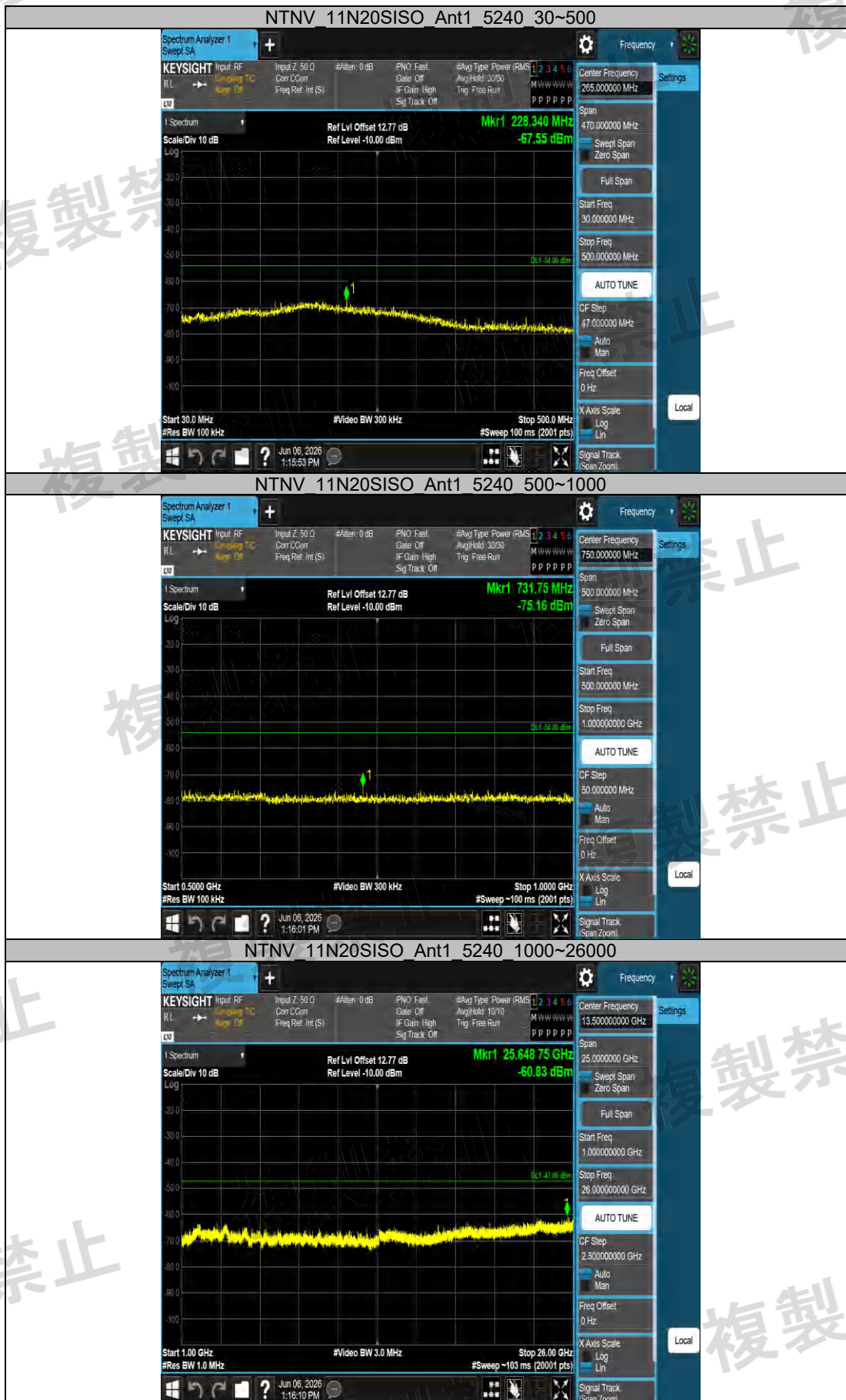


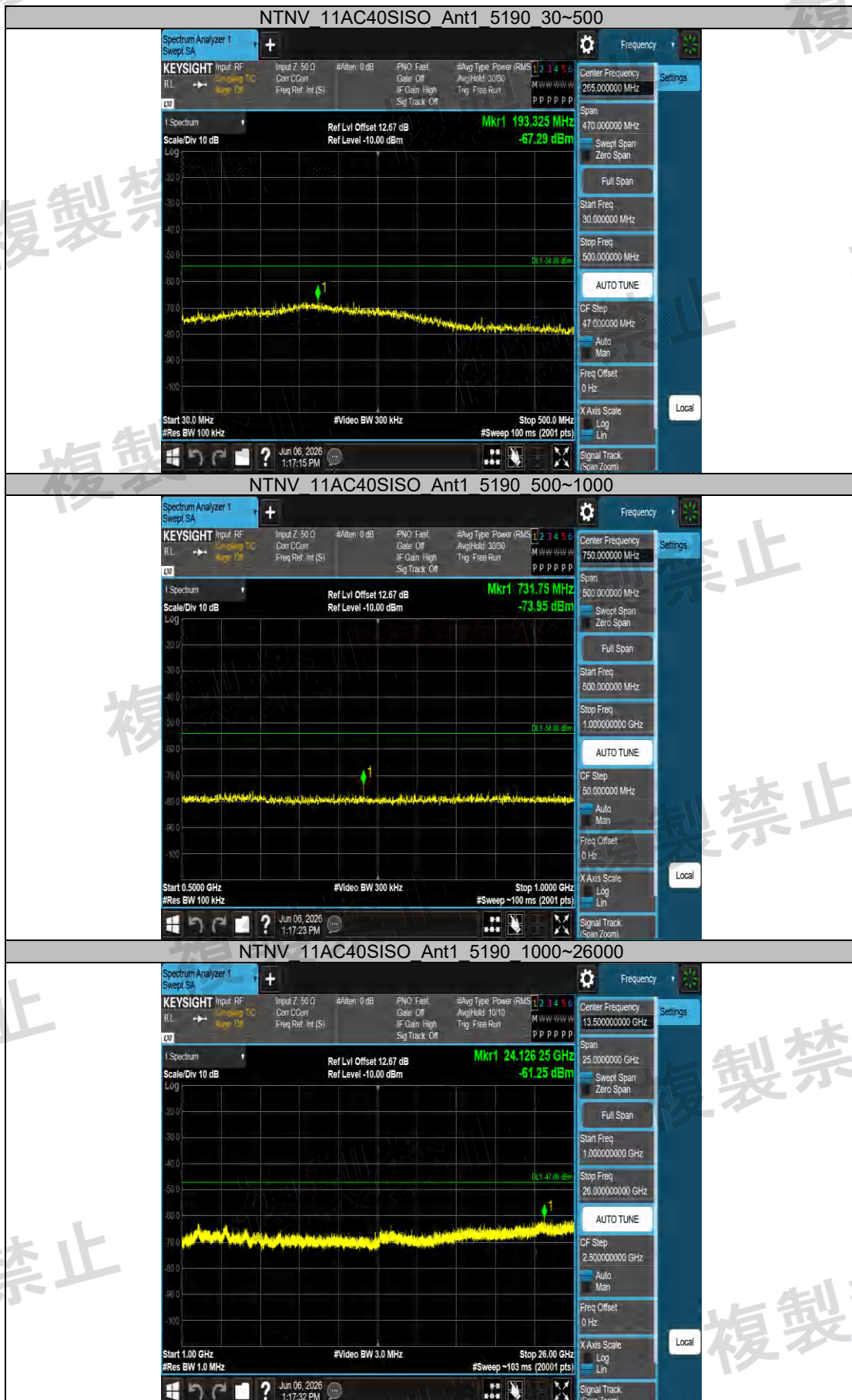


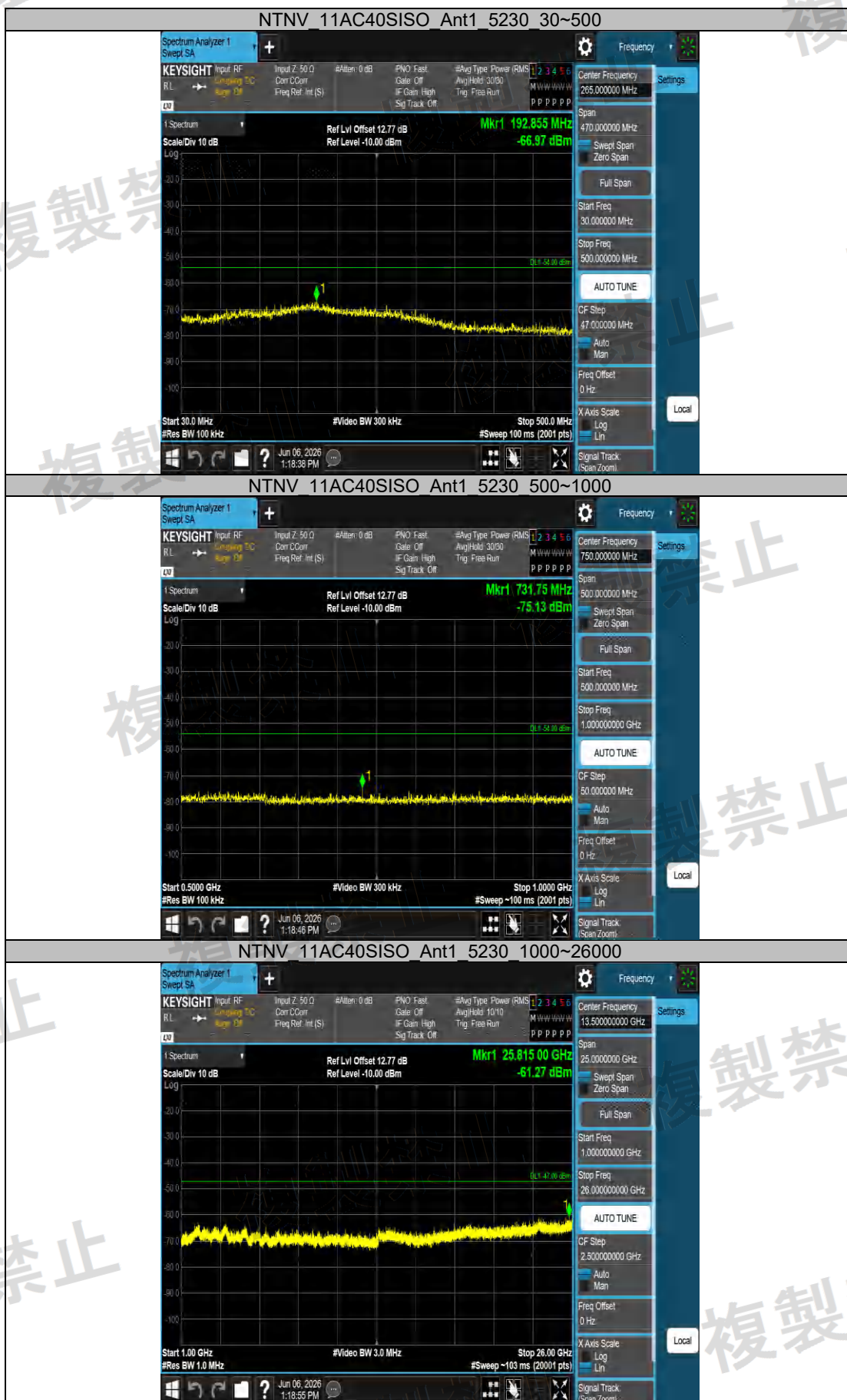














Appendix A.6: Test Results of Burst Length

Test Result

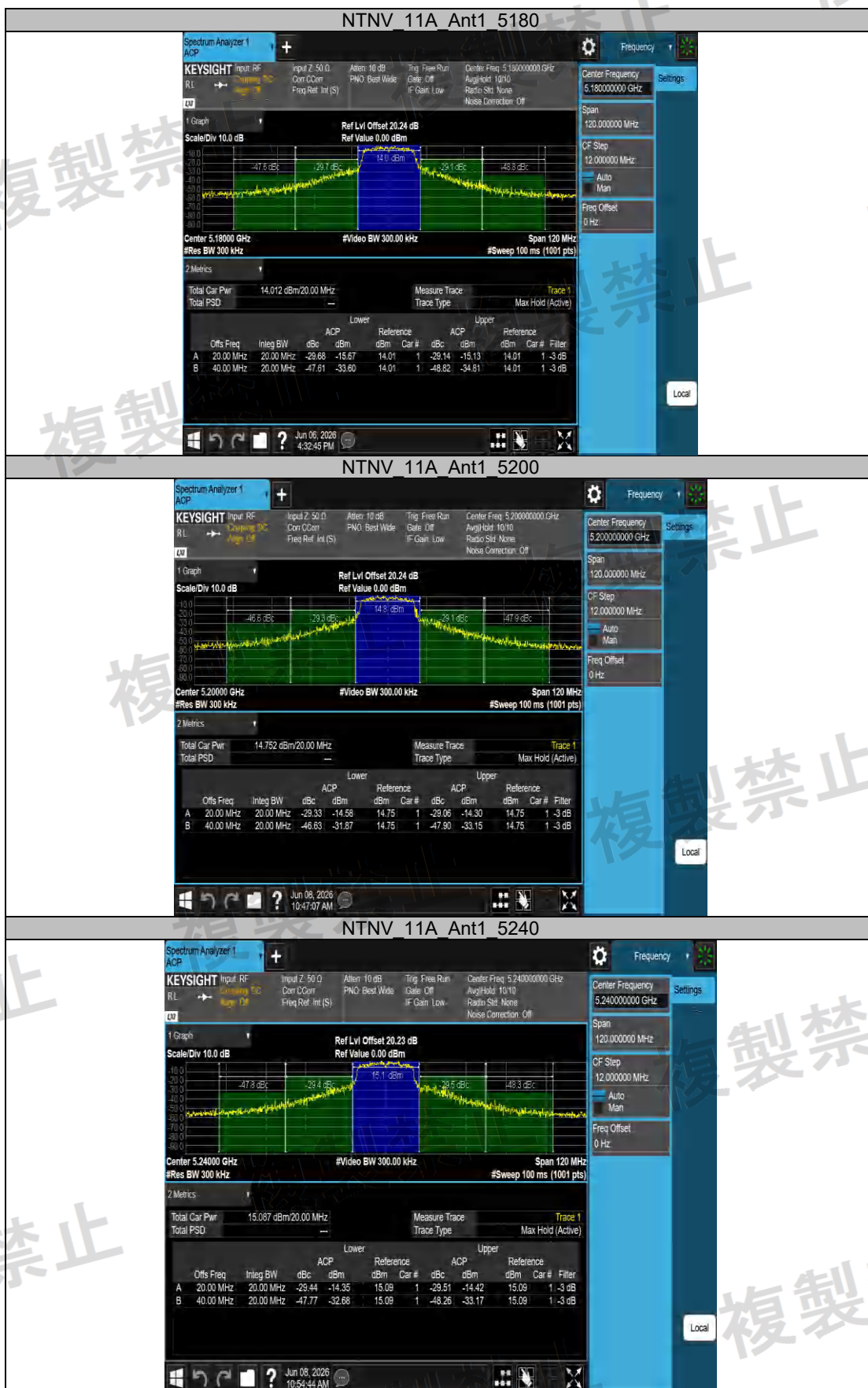
TestCondition	TestMode	Antenna	Frequency[MHz]	Result [ms]	Limit [ms]	Verdict
NTNV	11A	Ant1	5180	1.39	≤8	PASS
			5200	1.39	≤8	PASS
			5240	1.39	≤8	PASS
	11N20SISO	Ant1	5180	1.30	≤8	PASS
			5200	1.30	≤8	PASS
			5240	1.30	≤8	PASS
	11AC40SISO	Ant1	5190	0.65	≤8	PASS
			5230	0.65	≤8	PASS
	11AC80SISO	Ant1	5210	0.32	≤8	PASS

Appendix A.7: Test Results of Adjacent Channel Power

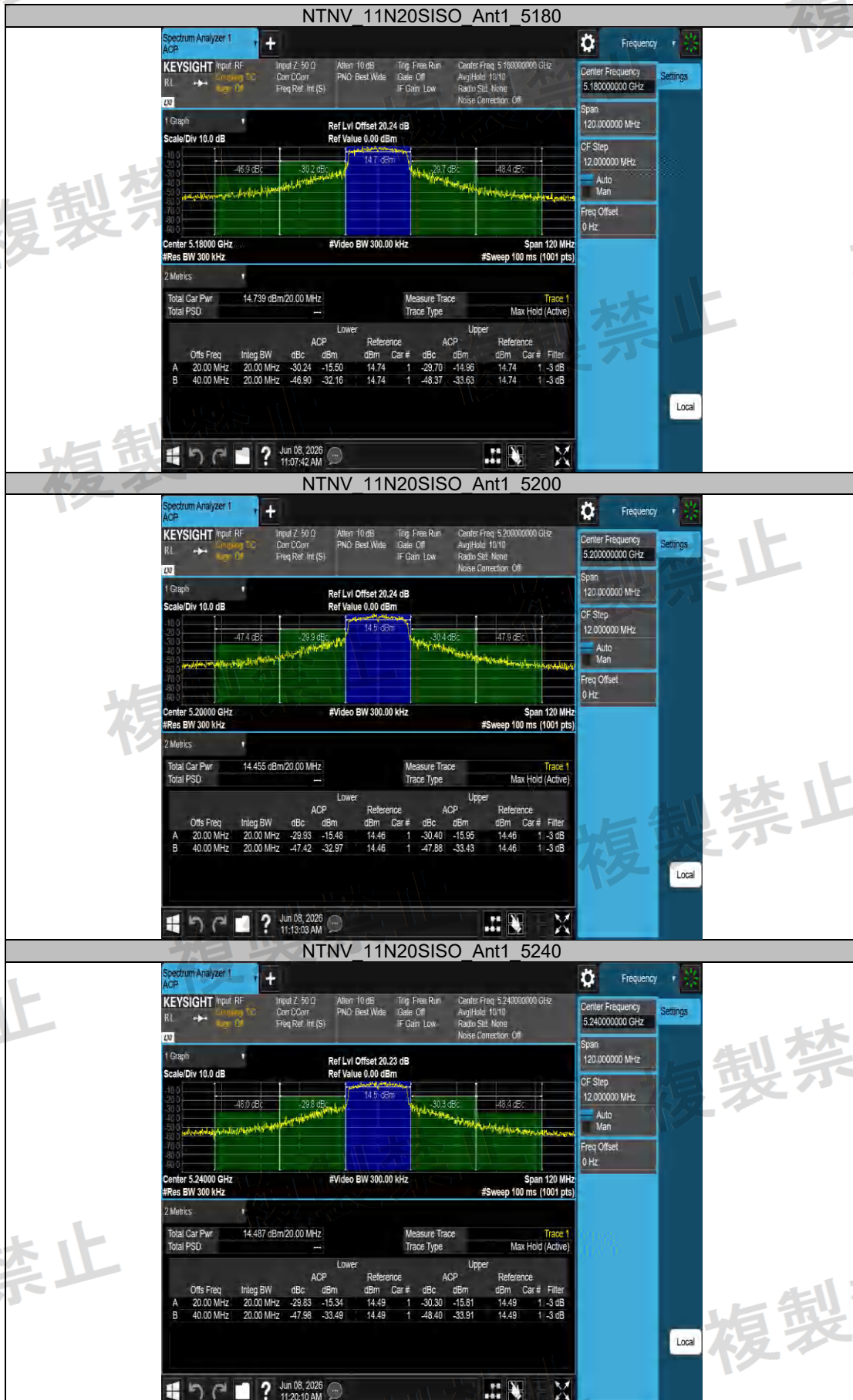
Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Offset[MHz]	Result[dBc]	Limit[dBc]	Verdict
NTNV	11A	Ant1	5180	-40	-47.61	≤-40	PASS
				-20	-29.68	≤-25	PASS
				+20	-29.14	≤-25	PASS
				+40	-48.82	≤-40	PASS
			5200	-40	-46.63	≤-40	PASS
				-20	-29.33	≤-25	PASS
				+20	-29.06	≤-25	PASS
				+40	-47.90	≤-40	PASS
			5240	-40	-47.77	≤-40	PASS
				-20	-29.44	≤-25	PASS
				+20	-29.51	≤-25	PASS
				+40	-48.26	≤-40	PASS
	11N20SISO	Ant1	5180	-40	-46.90	≤-40	PASS
				-20	-30.24	≤-25	PASS
				+20	-29.70	≤-25	PASS
				+40	-48.37	≤-40	PASS
			5200	-40	-47.42	≤-40	PASS
				-20	-29.93	≤-25	PASS
				+20	-30.40	≤-25	PASS
				+40	-47.88	≤-40	PASS
			5240	-40	-47.98	≤-40	PASS
				-20	-29.83	≤-25	PASS
				+20	-30.30	≤-25	PASS
				+40	-48.40	≤-40	PASS
	11AC40SISO	Ant1	5190	-80	-46.16	≤-40	PASS
				-40	-30.73	≤-25	PASS
				+40	-30.59	≤-25	PASS
				+80	-48.52	≤-40	PASS
			5230	-80	-47.09	≤-40	PASS
				-40	-30.52	≤-25	PASS
				+40	-31.30	≤-25	PASS
				+80	-48.36	≤-40	PASS
	11AC80SISO	Ant1	5210	-80	-29.04	≤-25	PASS
				+80	-29.49	≤-25	PASS
				-20	-29.06	≤-25	PASS
				+20	-28.76	≤-25	PASS
				+40	-48.43	≤-40	PASS

Test Graphs



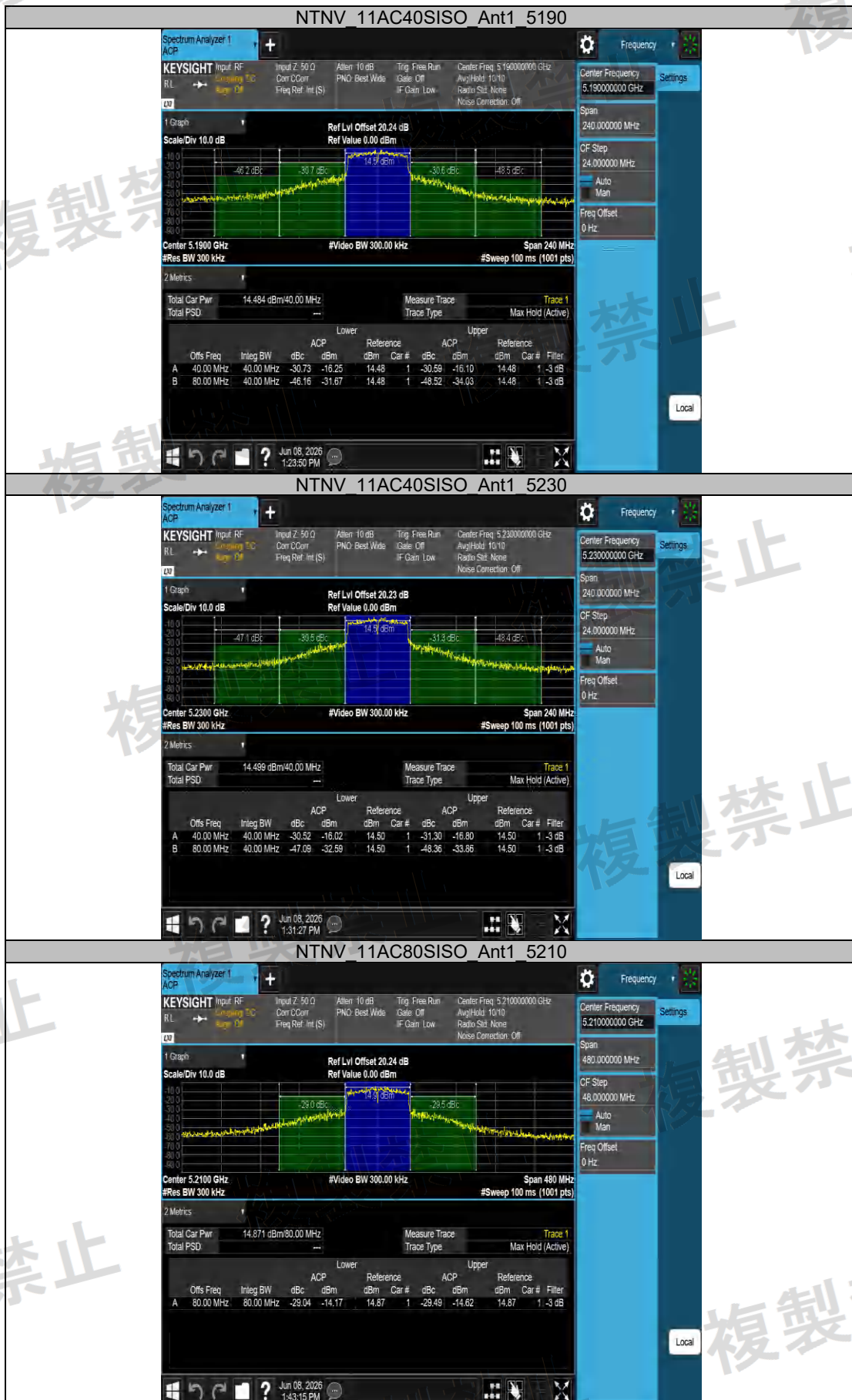
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Appendix A.8: Test Results of Out-Band Leakage Power

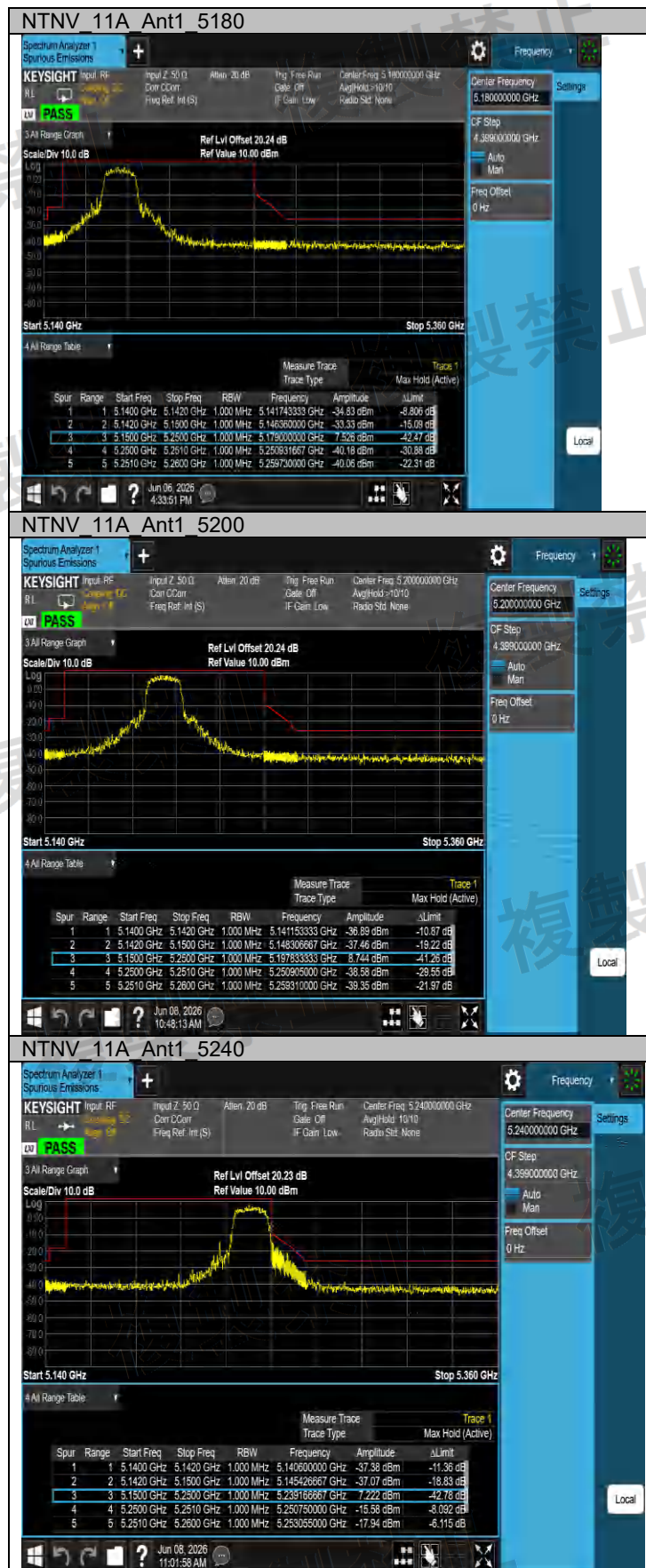
Test Result

TestCondition	TestMode	Antenna	Frequenc y[MHz]	FreRang [MHz]	Max.Freq. [MHz]	EIRP [dBm]	Verdict
NTNV	11A	Ant1	5180	5140~5142	5141.74	-34.83	PASS
				5142~5150	5146.36	-33.33	PASS
				5250~5251	5250.93	-40.18	PASS
				5251~5260	5259.73	-40.06	PASS
				5260~5266.7	5266.51	-39.60	PASS
				5266.7~5360	5315.06	-40.95	PASS
			5200	5140~5142	5141.15	-36.89	PASS
				5142~5150	5148.31	-37.46	PASS
				5250~5251	5250.91	-38.58	PASS
				5251~5260	5259.31	-39.35	PASS
				5260~5266.7	5265.71	-38.46	PASS
				5266.7~5360	5277.59	-40.58	PASS
			5240	5140~5142	5140.60	-37.38	PASS
				5142~5150	5145.43	-37.07	PASS
				5250~5251	5250.75	-15.58	PASS
				5251~5260	5253.06	-17.94	PASS
				5260~5266.7	5260.95	-27.29	PASS
				5266.7~5360	5269.65	-36.39	PASS
	11N20SISO	Ant1	5180	5140~5142	5140.19	-32.97	PASS
				5142~5150	5148.76	-30.19	PASS
				5250~5251	5250.98	-39.65	PASS
				5251~5260	5259.39	-39.53	PASS
				5260~5266.7	5266.21	-38.90	PASS
				5266.7~5360	5290.96	-39.24	PASS
			5200	5140~5142	5141.86	-36.39	PASS
				5142~5150	5147.81	-37.08	PASS
				5250~5251	5250.70	-37.85	PASS
				5251~5260	5258.67	-39.62	PASS
				5260~5266.7	5265.81	-39.72	PASS
				5266.7~5360	5318.17	-39.82	PASS
			5240	5140~5142	5140.00	-36.74	PASS
				5142~5150	5147.69	-37.66	PASS
				5250~5251	5250.08	-10.63	PASS
				5251~5260	5251.53	-15.15	PASS
				5260~5266.7	5261.57	-26.47	PASS
				5266.7~5360	5269.34	-36.30	PASS
	11AC40SIS O	Ant1	5190	5100~5141.6	5141.60	-31.20	PASS
				5141.6~5150	5147.51	-23.29	PASS
				5250~5251	5250.87	-35.17	PASS
				5251~5270	5269.46	-38.49	PASS
				5270~5278.4	5276.71	-39.57	PASS
				5278.4~5400	5313.87	-40.85	PASS
			5230	5100~5141.6	5110.19	-36.88	PASS
				5141.6~5150	5143.01	-37.37	PASS
				5250~5251	5250.36	-19.42	PASS
				5251~5270	5258.57	-24.89	PASS
				5270~5278.4	5271.65	-29.84	PASS
				5278.4~5400	5281.85	-37.86	PASS
	11AC80SIS O	Ant1	5210	5020~5123.2	5119.24	-32.12	PASS
				5123.2~5150	5150.00	-29.46	PASS
				5250~5251	5250.26	-23.82	PASS
				5251~5290	5268.94	-29.59	PASS
				5290~5296.7	5290.10	-30.84	PASS
				5296.7~5480	5299.14	-36.78	PASS
				5142~5150	5148.97	-32.77	PASS
				5250~5251	5250.81	-40.05	PASS
				5251~5260	5257.81	-39.41	PASS

				5260~5266.7	5266.28	-38.92	PASS
				5266.7~5360	5293.76	-39.07	PASS

Note: The Antenna Gain is compensated in the graph.

Test Graphs







Appendix A.9: Test Results of Carrier Sensing

Test Result

Type	Test channel	Result
802.11n (HT40)	CH _L , CH _M , CH _H	Acceptance
802.11ac (VHT40)	CH _L , CH _M , CH _H	Acceptance
802.11ac (VHT80)	CH _L , CH _M , CH _H	Acceptance

Appendix A.10: Test Results of Interference Prevention Function

Test Result

Temperature:	24.8°C	Humidity:	55%RH
MAC address:	CC731540ECCE	Test result:	Conform