

Unistellar SAS

JAPAN TEST REPORT

SCOPE OF WORK:
JAPAN RADIO REPORT

MODEL:
Odyssey Pro,
Odyssey

REPORT NUMBER
2410B1458SHA-001

ISSUE DATE:
November 12, 2025

DOCUMENT CONTROL NUMBER
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Summary

The equipment complies with the requirements according to the following standard(s) or Specification:

The equipment complies with the requirements according to the following standard(s):

Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment

The measurement was implemented in according with the following procedure(s):

MIC Notice No.88 Appendix No.43

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Revision History

Report No.	Version	Description	Issued Date
2410B1458SHA-001	Rev. 01	Initial issue of report	November 12, 2025

Measurement result summary

TEST ITEM	TEST RESULT	NOTE
Frequency Error	Pass	-
Occupied Bandwidth and Spreading Bandwidth / Spreading Factor	Pass	-
Antenna Power and Tolerance	Pass	-
Spurious Emission	Pass	-
Limitation of Collateral Radio Emission of Receiver	Pass	-
Carrier Sense Function	Pass	-
Interference prevention function	Pass	-
Transmitting Antenna Gain (EIRP Antenna Power)	NA	-
Transmission Radiation Angle Width (3dB Beam width)	NA	-
Construction Protection Confirmation	Pass	-

Notes: 1: NA =Not Applicable

2. Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name	: Telescope
Type/Model	: Odyssey Pro, Odyssey
Description of EUT	: The EUT is a wireless Telescope, there are two models. The wireless module uses an antenna (Molde: LAIRD MAF94045), Their internal power cords and data cables are different. So we tested all of model sand put the worst test data into this report.
Rating	: DC 5V, 3A
Hardware version	: /
Software version	: /
Sample received date	: 2025.9.11
Date of test	: 2025.9.11-2025.9.18

1.2 RF Technical Information

Assigned Frequency Band	: 2400MHz to 2483.5MHz
Operating Frequency	: 802.11n(HT20): 2412MHz to 2472MHz
Type of Modulation	: 802.11n(HT20): OFDM
Number of Channels	: 802.11n(HT20): 13 Channels
Channel Separation	: 5MHz
Antenna Type	: Embedded Internal Antenna
Antenna Gain	: 2dBi
Declaration Antenna Power	: 802.11n(HT20): 10mW/MHz

1.3 Description of Test Facility

Name : Intertek Testing Services (Shanghai FTZ) Co., Ltd

Address : Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China

Telephone : 86 21 61278200

Telefax : 86 21 54262353

The test facility is : CNAS Accreditation Lab
recognized, certified, Registration No. CNAS L21189
or accredited by these
organizations

FCC Accredited Lab
Designation Number: CN0175

IC Registration Lab
CAB identifier.: CN0014

VCCI Registration Lab
Member No.: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)

A2LA Accreditation Lab
Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

The equipment complies with the requirements according to the following standard(s):

Article 49-20 and the relevant articles of the Ordinance Regulating Radio Equipment

The measurement was implemented in according with the following procedure(s):

MIC Notice No.88 Appendix No.43

2.2 Mode of operation during the test

While testing transmitting mode of EUT, the continuously transmission was applied by following software.

Software name	Manufacturer	Version	Supplied by
P2033-Certif-Scripts	-	-	Applicant

The lowest, middle and highest channel were tested as representatives.

Frequency Band (MHz)	Mode	Lowest (L) (MHz)	Middle (M) (MHz)	Highest (H) (MHz)	Power setting
2400-2483.5	802.11n(HT20)	2412	2442	2472	-

MIMO Function Description:

Frequency Band (MHz)	Mode	Tx/Rx Function	Beamforming function	CDD function	Note
2400-2483.5	802.11n(HT20)	1TX/1RX	NO	NO	-

After this pretest, the following data rate was chosen to do the test as the worst case:

Frequency Band (MHz)	Mode	Tx/Rx Function
2400-2483.5	802.11n(HT20)	MCS0

2.3 Test environment condition:

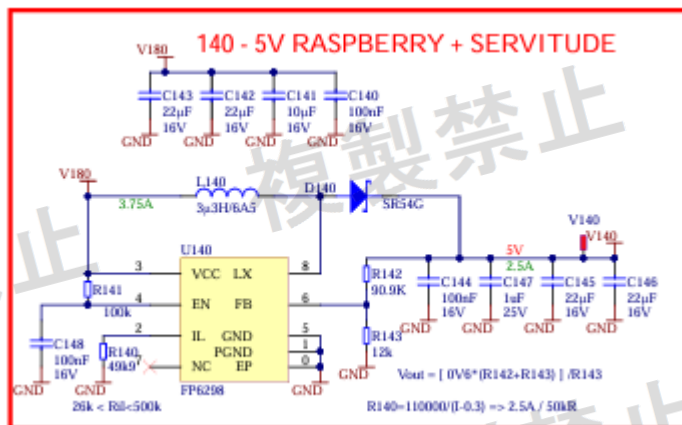
Temperature	Humidity	Atmospheric Pressure
22°C	47 %RH	100.6 kPa

2.4 Power supply condition:

The EUT is powered by 5VDC. The input voltage fluctuation of the RF unit circuit of the test equipment is less than $\pm 1\%$, while the voltage fluctuation from 5VDC input to the test equipment is $\pm 10\%$. Therefore, all measurements are carried out at the rated voltage (5VDC). The measurement result of the voltage fluctuation at RF circuit when input voltage is fluctuated by $\pm 10\%$:

Power supply	Measured value
5.0V DC	5.0V DC
5.5V DC	5.5V DC
4.5V DC	4.5V DC

DC to 5V



2.5 Test peripherals used

Item No	Description	Band and Model	S/No
1	Laptop computer	DELL, 5480	NA
2	DC power supply	62024P-100-50	NA

2.6 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date	Calibration Body	
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2025-03-06	2026-03-05	CEPREI	(c)
☒	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2025-03-08	2026-03-07	CEPREI	(c)
☐	Vector Signal Generator	Agilent	N5182B	EC 5175	2025-03-06	2026-03-05	CEPREI	(c)
☒	Multi-meter	FLUKE	187	EC 2560	2025-03-13	2026-03-12	ITS	(c)

Note: The calibration interval is one year and the calibrations are traceable to the National Institute of Metrology (NIM)

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

2.7 Measurement Uncertainty

Item No.	Test Items	Expanded Uncertainty (k=2) (±)
1	Frequency error	0.84×10^{-7}
2	Antenna Power	0.74 dB
3	Occupied Bandwidth	0.88 %
4	Spurious emissions of transmitter	2.89 dB
5	Spurious emissions of receiver	2.80 dB
6	Temperature	1 °C
7	Humidity	5 %
8	Time	1.15 %

3 Frequency Error

Test result: Pass

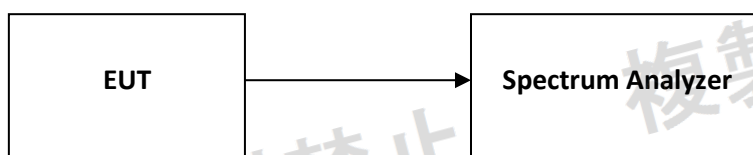
3.1 Limit

Item	Limits
Frequency Error	$\leq 50\text{ppm}$

3.2 Measurement Procedure

- (1) Frequency accuracy of instrument shall be less than 10% of the limit.
- (2) Two methods for the item:
 - a. CW Tone method
 - i. Set the spectrum analyzer RBW=10kHz, VBW=10kHz, Span=1MHz.
 - ii. Use peak search function to find the max peak value and record the measuring frequency as f.
 - b. 10dB down method
 - i. Set the spectrum analyzer RBW=100kHz, VBW=100kHz, Trace: Max Hold.
 - ii. Display line Level = Max. level - 10dB to place two markers, highest(fH) and lowest(fL) frequency
 - iii. Determine measuring frequency $f = (fH + fL) / 2$
- (3) Calculate frequency tolerance by the formula $(f - f_c) / f_c \times 10^6$

3.3 Test Configuration



3.4 Test Results of Frequency Error

Please refer to Appendix

4 Occupied Bandwidth and Spreading Bandwidth / Spreading Factor

Test result: Pass

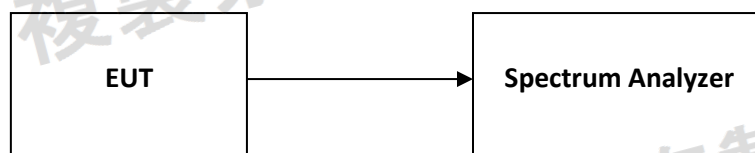
4.1 Limit

Item	Limits
Occupied Bandwidth	26MHz (DSSS) 40MHz (OFDM)
Spreading Bandwidth	500kHz or more (DSSS)

4.2 Measurement Procedure

- (1) Set the Spectrum Analyzer as: RBW: 300kHz, VBW: 300kHz, Sweep mode: Continuous sweep, Detect mode: Positive peak, Trace mode: Max hold.
- (2) Set the EUT as transmitting on fix channel with modulation (For DSSS or OFDM Device), or continuous maximum power of hopping mode (For FHSS Device)
- (3) Enable OBW function of Spectrum Analyzer to measure 99% bandwidth and 90% bandwidth.
- (4) Spreading Factor = Spreading Bandwidth / modulation rate of EUT (For DSSS system)
- (5) Spreading Factor should be greater than 5.

4.3 Test Configuration



4.4 Test Results of Occupied Bandwidth and Spreading Bandwidth / Spreading Factor

Please refer to Appendix

5 Antenna Power and Tolerance

Test result: Pass

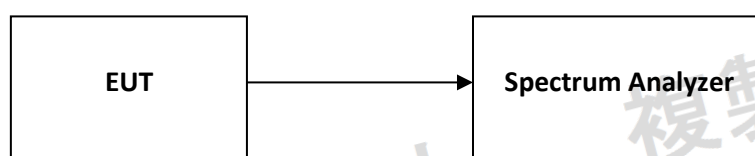
5.1 Limit

Item	Limits
Antenna Power	10mW/MHz (for $OBW \leq 20\text{MHz}$) 5mW/MHz (for $20\text{MHz} \leq OBW \leq 40\text{MHz}$)
Tolerance	+20%, -80%

5.2 Measurement Procedure

- (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:
Center Frequency: Test Frequency, RBW: 1 MHz, VBW: 1 MHz, Detector mode: RMS, Indication mode: Max hold

5.3 Test Configuration



5.4 Test Results of Antenna Power and Tolerance

Please refer to Appendix

6 Spurious Emission

Test result: Pass

6.1 Limit

Item	Limits
TX Spurious Emission	(1) Below 2387MHz: 2.5μW/MHz (2) 2387 to 2400MHz: 25μW/MHz (3) 2483.5 to 2496.5MHz: 25μW/MHz (4) Over 2496.5MHz: 2.5μW/MHz

6.2 Measurement Procedure

- (1) Set the EUT as transmitting the maximum power and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak.
- (3) Follow above setting to measure spurious emission from 30MHz to 12500MHz.

6.3 Test Configuration



6.4 Test Results of Spurious Emission

Please refer to Appendix

7 Limitation of Collateral Radio Emission of Receiver

Test result: Pass

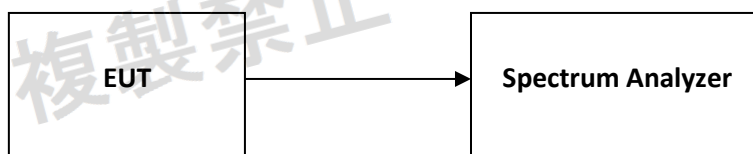
7.1 Limit

Item	Limits
Collateral Emissions	(1) Below 1GHz: 4nW (2) 1GHz or higher: 20nW

7.2 Measurement Procedure

- (1) Set the EUT as continuous reception mode and fixed channel.
- (2) Set the Spectrum Analyzer as: RBW: 100kHz, VBW: 100kHz, Sweep time: Auto, Detect mode: Positive peak to measure the spurious emission below 1GHz.
- (3) Set the Spectrum Analyzer as: RBW: 1MHz, VBW: 1MHz, Sweep time: Auto, Detect mode: Positive peak to measure the spurious emission above 1GHz.

7.3 Test Configuration



7.4 Test Results of Collateral Radio Emission of Receiver

Please refer to Appendix

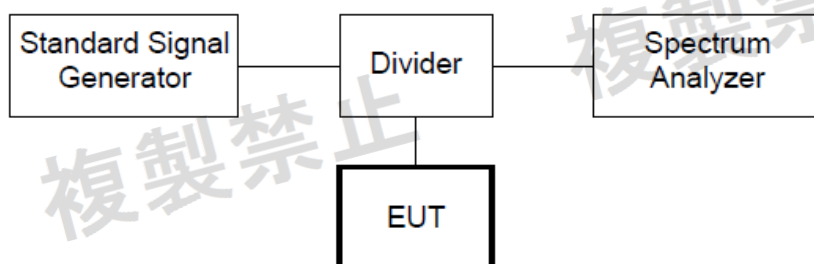
8 Carrier Sense Function

Test result: Pass

8.1 Measurement Procedure

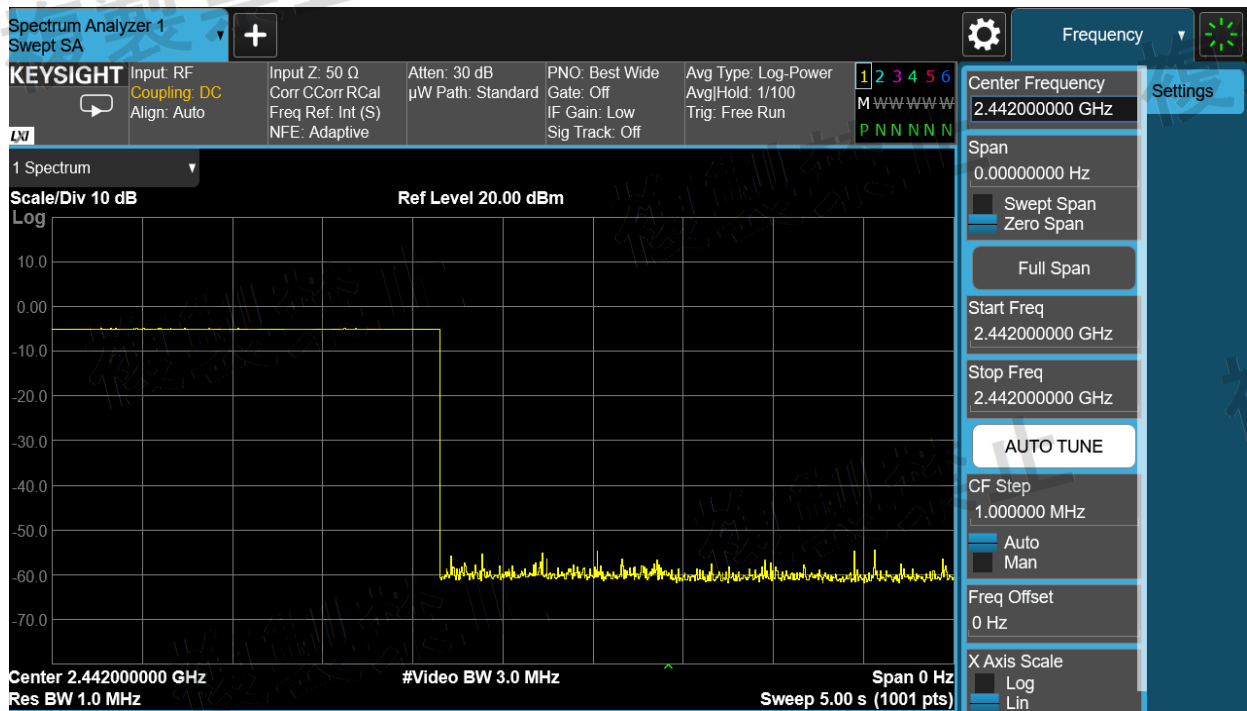
- (1) Setting of standard signal generator is given as below. Carrier Frequency Center frequency in the RX frequency band of the EUT Modulation No-modulation (Note)
Output Level Same level as the specific value at the antenna input (the specific value is defined by the applicant.)
Note1: In case the carrier sense function of the EUT does not work with no-modulated carrier at the center frequency, the frequency may be shifted or modulation is performed, if necessary.
- (2) With the standard signal generator output OFF, turn the EUT on the TX mode. Verify with the spectrum analyzer that TX signal (OBW 26MHz or more) is put out.
- (3) Set the EUT on RX mode.
- (4) With the standard signal generator output ON, turn the EUT on the TX mode. Verify with the spectrum analyzer that TX signal (OBW 26MHz or more) is not put out.

8.2 Test Configuration



8.3 Test Results of Carrier Sense Function

Mode	EUT Freq (MHz)	Result	Interference signal Level	Note
802.11n(HT20)	2412	Pass	-44.78	with modulation
802.11n(HT20)	2442	Pass	-43.87	with modulation
802.11n(HT20)	2472	Pass	-43.98	with modulation



9 Interference prevention function

Test result: Pass

9.1 Limit

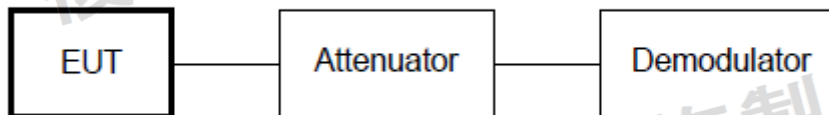
Item	Limits
Identification code	≥ 48 bits

9.2 Measurement Procedure

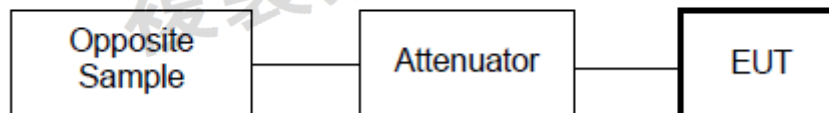
- (1) In case the EUT possesses function to transmit identification code automatically:
 - a. Predetermined identification code is transmitted by the EUT.
 - b. Verify the transmitted identification code.
- (2) In case the EUT possesses function to receive identification code automatically.
 - a. Predetermined identification code is transmitted by the opposite sample.
 - b. Verify the working of the normal communication.
 - c. Other code than the predetermined identification code is transmitted by the opposite sample.
 - d. Verify the EUT to stop transmitting or to display that the ID code is different.

9.3 Test Configuration

(1) In case identification code is transmitted



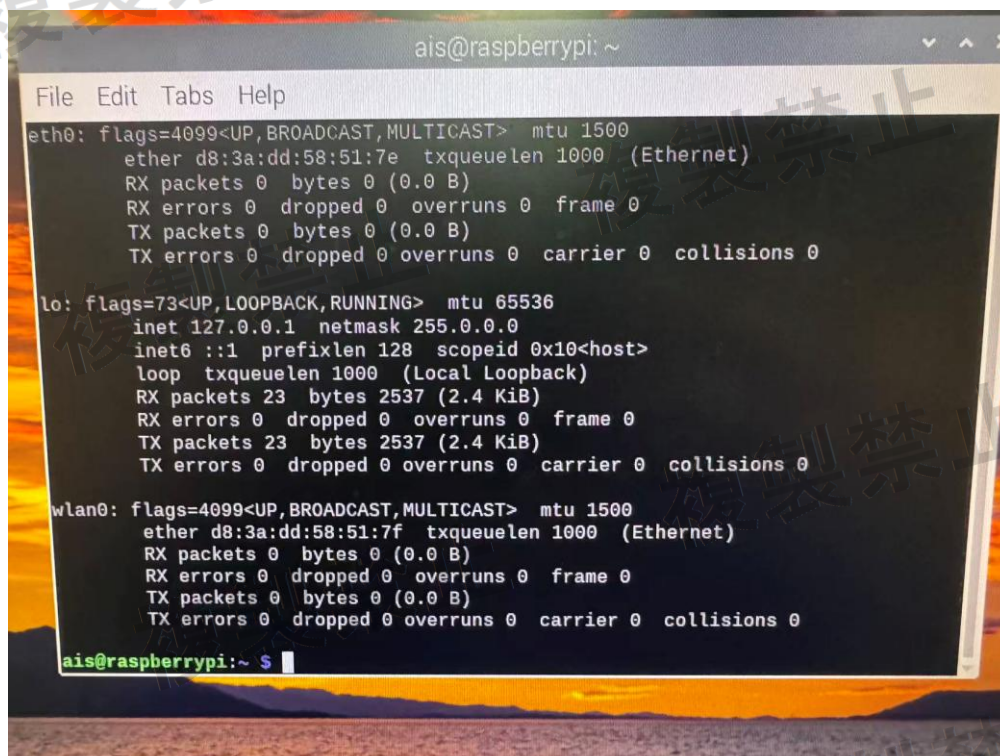
(2) In case identification code is received



9.4 Test Results of Interference prevention function

MAC address	:	d8:3a:dd:58:51:7f
-------------	---	-------------------

Test Plot:



```

ais@raspberrypi: ~
File Edit Tabs Help
eth0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether d8:3a:dd:58:51:7e txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 23 bytes 2537 (2.4 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 23 bytes 2537 (2.4 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether d8:3a:dd:58:51:7f txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

ais@raspberrypi:~$
  
```

10 Transmission Antenna Gain (EIRP Antenna Power) Measurement

Test result: NA

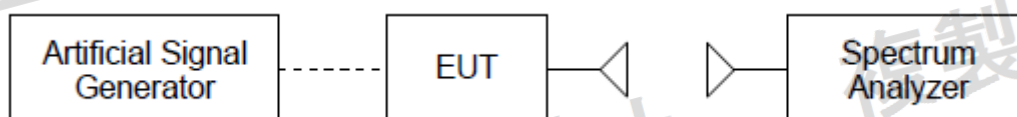
10.1 Limit

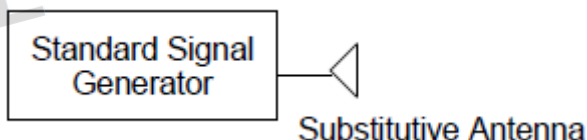
Item	Limits
EIRP Antenna Power	$\leq 12.14\text{dBm/MHz}$ (OFDM, DSSS from 2400MHz to 2483.5MHz) $\leq 12.14\text{dBm}$ (Other from 2400MHz to 2483.5MHz)
Remark: This test item is not applied to EUT with EIRP Antenna power lower than 12.14dBm/MHz	

10.2 Measurement Procedure

- (1) Set EUT and measuring antenna at the same height and roughly facing each other.
- (2) Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of the measuring antenna. The output level at the spectrum analyzer is read as "E".
- (3) Remove the EUT from the turn table and put the replacing antenna facing to measuring antenna at same height. Set the standard signal generator (SSG) at same frequency and transmit on then receive the signal.
- (4) Swing the replacing antenna give a maximum receiving level.
- (5) Move the measuring antenna height up and down within $\pm 50\text{cm}$ of replacing antenna height and swing it to find the maximum receiving level.
- (6) Set SSG output power at P_t to give the equivalent output level of "E" or calculate P_t with SSG output which gives the nearest of "E" and difference ($\pm 1\text{dB}$). Record the P_t .
- (7) Calculate EIRP by the formula below $\text{EIRP} = G_t - L + P_t$.
 G_t : gain of replacing antenna (dBi),
 L : feeder loss between SSG and replacing antenna
 P_t : Output power of the SSG
- (8) If the antenna for the EUT has circular polarization, sum of V-field and H-field will be result if measuring antenna is linear polarization.

10.3 Test Configuration





10.4 Test Results of Transmission Antenna Gain

For the antenna gain, please refer to antenna test report.

This test item is not applied to EUT with EIRP Antenna power lower than 12.14dBm/MHz

11 Transmission Radiation Angle Width (3dB Beamwidth) Measurement

Test result: NA

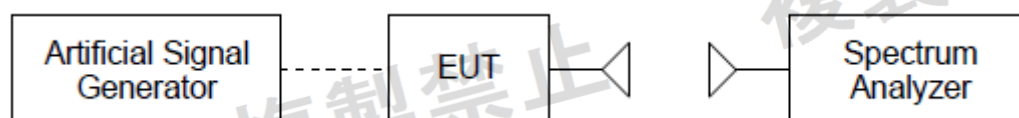
11.1 Limit

Item	Limits
3dB antenna beamwidth	$360/A$ (If $A < 1$; then $A = 1$) $A = \{ \text{EIRP Power [dBm/MHz]} - 12.14 \text{ [dBm/MHz]} \text{ for DS, OFDM} \}$ or $\{ \text{E.I.R.P Power [dBm/MHz]} - 6.91 \text{ [dBm/MHz]} \text{ for FH} \}$
Remark: This test item is not applied to EIRP power of EUT is lower than 12.14dBm/MHz	

11.2 Measurement Procedure

- (1) Set EUT and measuring antenna at the same height and roughly facing each other.
- (2) Set spectrum analyzer with condition in section 3.7.2 and tune reference level to observe receiving signal position.
- (3) Rotate directions of the EUT horizontally and vertically to find the maximum receiving power.
- (4) Move the measuring antenna height up and down within $\pm 50\text{cm}$ of EUT height and swing it to find the maximum output of measuring antenna. The output level at the spectrum analyzer is read as "E".
- (5) Calculate permitted radiation angle in horizontal and vertical using EIRP measured in another test method.
- (6) Calculate 3dB antenna beam width by the formula below $360/A$ (If $A < 1$; then $A = 1$).
 $A = \{ \text{EIRP Power [dBm/MHz]} - 12.14 \text{ [dBm/MHz]} \text{ for DS, OFDM} \}$ or
 $A = \{ \text{E.I.R.P Power [dBm/MHz]} - 6.91 \text{ [dBm/MHz]} \text{ for FH} \}$

11.3 Test Configuration



11.4 Test Results of Transmission Radiation Angle Width

For the antenna gain, please refer to antenna test report.

This test item is not applied to EUT with EIRP Antenna power lower than 12.14dBm/MHz

12 Construction Protection Confirmation Method

Test result: Pass

12.1 Limit

The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.

12.2 Confirmation Method

☐	Sealed with special screws.
☐	Plastic chassis is being welded using ultrasonic waves.
☐	Chassis is glued using a special adhesive.
☐	Metal covers are spot-fused.
☐	Cover is specially interlocked.
☒	RF and Modulation components are covered with shielding case and this shielding case is soldered.
☐	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.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is welded using the BGA Method.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued at its lead with a special adhesive.
☐	Shield case is welded at RF and modulation parts, and ID-ROM is glued with a non-transparent laminating agent.
☐	Other:

12.3 The Photos of Construction Protection

Please refer to the EUT's photos

Appendix: Test results

Refer to Appendix for test result.

***** END *****

Appendix A: Frequency Error

Test Result

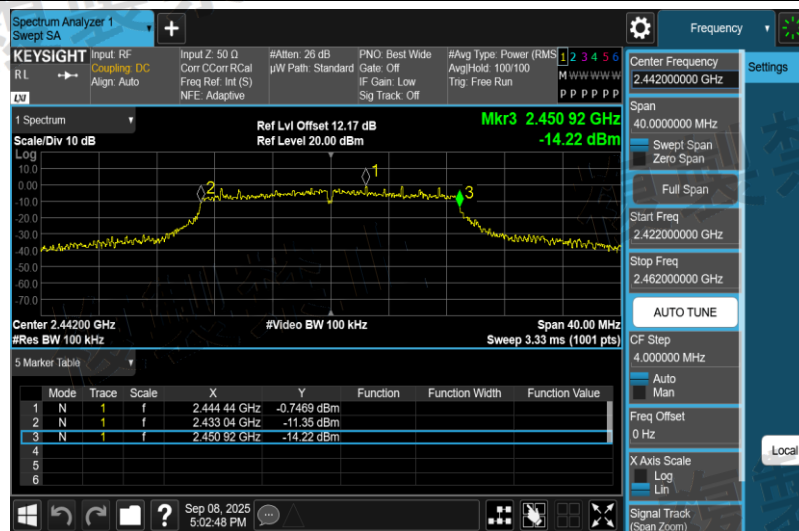
TestCondition	TestMode	Antenna	Frequency[MHz]	CenterFreq [MHz]	Result[ppm]	Limit[ppm]	Verdict
NTNV	11N20SI SO	Ant1	2412	2411.94	-24.87562	±50	PASS
NTNV	11N20SI SO	Ant1	2442	2441.98	-8.19001	±50	PASS
NTNV	11N20SI SO	Ant1	2472	2471.94	-24.27185	±50	PASS

Test Graphs

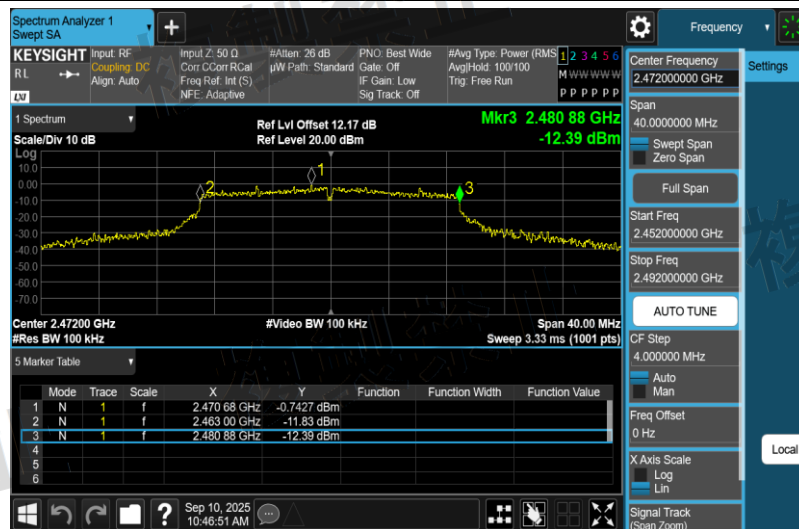
NTNV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2472-PASS



Appendix B: Antenna Power

Test Result Average

Test Mode	Antenna	Frequency[MHz]	Set Power	Conducted Sensor power[dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Gain [dBi]	EIRP [dBm]	Verdict
TestMode	Antenna	Channel	SetPower	RawPower	DC	DcFactor	Power	Gain	Result	Verdict

Test Result PSD

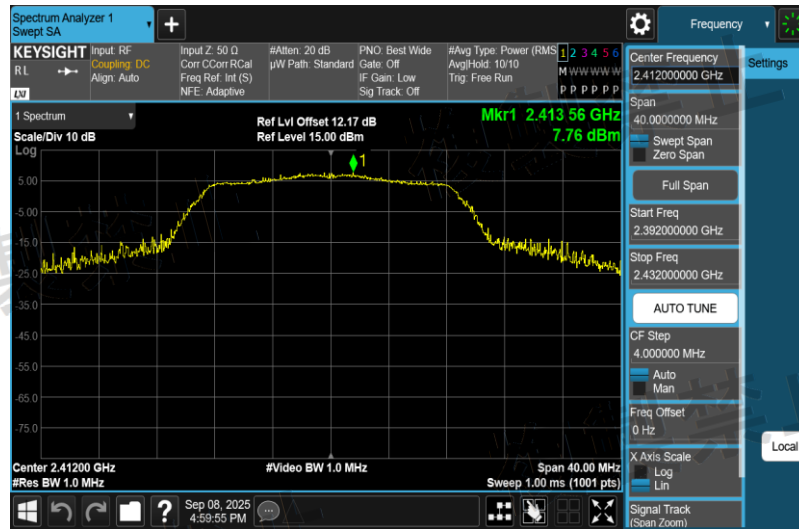
Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/MHz)	Result(mW/MHz)	Limit(mW/MHz)	Verdict
NTNV	11N20SI SO	Ant1	2412	7.46	5.5719	≤10	PASS
NTNV	11N20SI SO	Ant1	2442	8.00	6.3096	≤10	PASS
NTNV	11N20SI SO	Ant1	2472	8.18	6.5766	≤10	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Power (mW/MHz)	RatedPower (mW/MHz)	Result (%)	Limit (%)	Verdict
NTNV	11N20SI SO	Ant1	2412	5.5719	10	-44.28	-80 to +20	PASS
NTNV	11N20SI SO	Ant1	2442	6.3096	10	-36.90	-80 to +20	PASS
NTNV	11N20SI SO	Ant1	2472	6.5766	10	-34.23	-80 to +20	PASS

Test Condition	Test Mode	Antenna	Frequency[MHz]	Result(dBm/MHz)	EIRP(dBm/MHz)	Limit(dBm/MHz)	Verdict
NTNV	11N20SI SO	Ant1	2412	7.46	9.46	≤12.14	PASS
NTNV	11N20SI SO	Ant1	2442	8.00	10.00	≤12.14	PASS
NTNV	11N20SI SO	Ant1	2472	8.18	10.18	≤12.14	PASS

Test Graphs

NTNV-11N20SISO-Ant1-2412-PASS

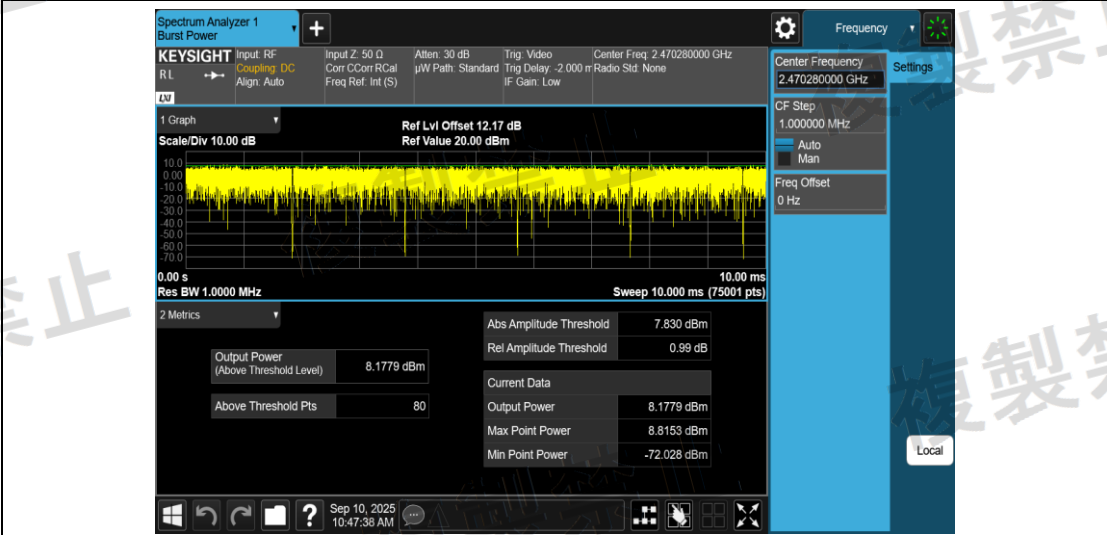
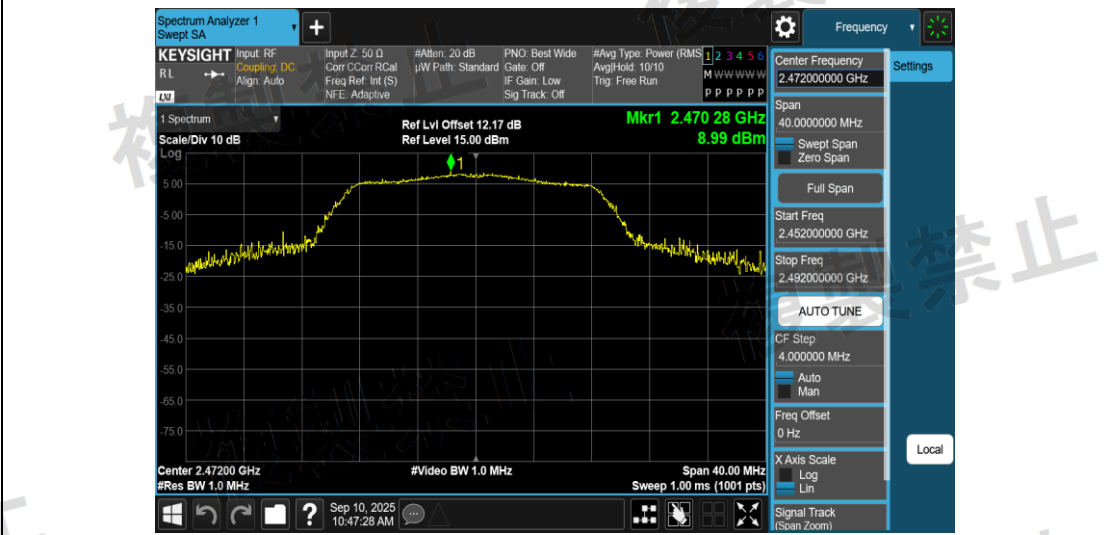


NTNV-11N20SISO-Ant1-2442-PASS





NTNV-11N20SISO-Ant1-2472-PASS



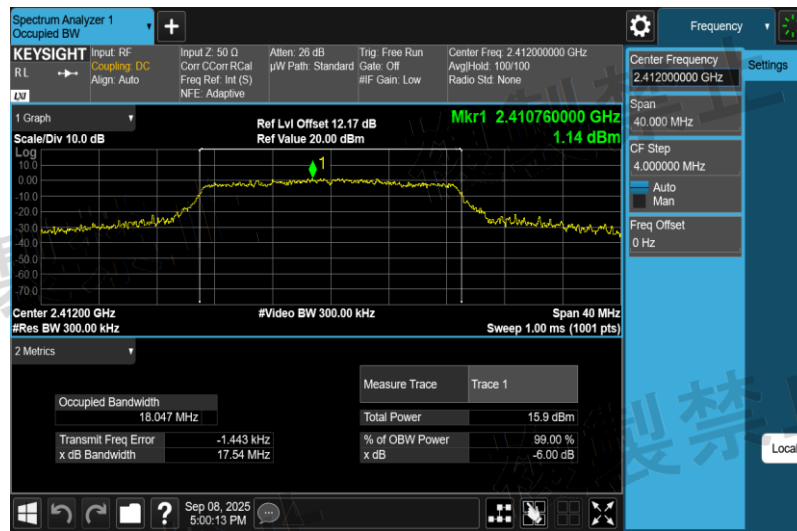
Appendix C: Occupied Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequency[MHz]	Result [MHz]	Limit [MHz]	Verdict
NTNV	11N20SI SO	Ant1	2412	18.047	≤26	PASS
NTNV	11N20SI SO	Ant1	2442	18.047	≤26	PASS
NTNV	11N20SI SO	Ant1	2472	18.103	≤26	PASS

Test Graphs

NTNV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2472-PASS



Appendix D: Spread Bandwidth

Test Result

TestCondition	TestMode	Antenna	Frequenc y[MHz]	Result [MHz]	Limit [MHz]	Spread Factor	Limit	Verdict
NTNV	11N20SI SO	Ant1	2412	15.259	≥0.5	---	---	PASS
NTNV	11N20SI SO	Ant1	2442	15.280	≥0.5	---	---	PASS
NTNV	11N20SI SO	Ant1	2472	15.225	≥0.5	---	---	PASS

Test Graphs

NTNV-11N20SISO-Ant1-2412-PASS



NTNV-11N20SISO-Ant1-2442-PASS



NTNV-11N20SISO-Ant1-2472-PASS



Appendix E: Spurious Emission of TX

Test Result

TestCondition	TestMode	Antenna	Frequency [MHz]	Freq.Range [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [μ W/MHz]	Limit [μ W/MHz]	Verdict
NTNV	11N20SI SO	Ant1	2412	30~1000	-51.32	≤ -26	0.01169	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2412	1000~2387	-24.68	≤ -26	5.39511	≤ 2.5	See table below
NTNV	11N20SI SO	Ant1	2412	2387~2400	-10.96	≤ -16	127.057 41	≤ 25	See table below
NTNV	11N20SI SO	Ant1	2412	2483.5~2496.5	-39.52	≤ -16	0.17701	≤ 25	PASS
NTNV	11N20SI SO	Ant1	2412	2496.5~13000	-41.56	≤ -26	0.11066	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2442	30~1000	-51.68	≤ -26	0.01076	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2442	1000~2387	-44.61	≤ -26	0.05483	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2442	2387~2400	-34.96	≤ -16	0.50582	≤ 25	PASS
NTNV	11N20SI SO	Ant1	2442	2483.5~2496.5	-36.72	≤ -16	0.33729	≤ 25	PASS
NTNV	11N20SI SO	Ant1	2442	2496.5~13000	-43.45	≤ -26	0.07161	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2472	30~1000	-51.94	≤ -26	0.01014	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2472	1000~2387	-47.85	≤ -26	0.02600	≤ 2.5	PASS
NTNV	11N20SI SO	Ant1	2472	2387~2400	-39.79	≤ -16	0.16634	≤ 25	PASS
NTNV	11N20SI SO	Ant1	2472	2483.5~2496.5	-9.36	≤ -16	183.653 83	≤ 25	See table below
NTNV	11N20SI SO	Ant1	2472	2496.5~13000	-29.32	≤ -26	1.85353	≤ 2.5	See table below

Test Result_Step2

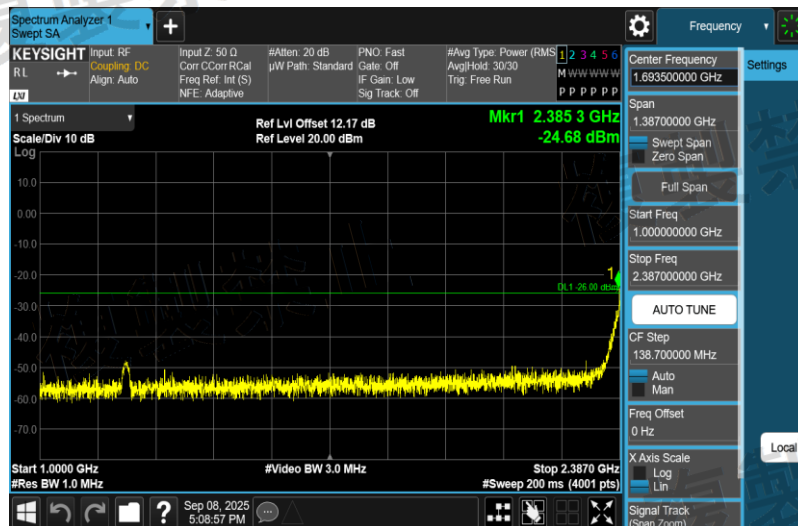
TestCondition	TestMode	PreScan Ant In Ant	Channel	Ant	Freq. [MHz]	Result [dBm/MHz]	Result [μW/MHz]	Limit [μW/MHz]	Verdict
NTNV	11N20 SISO	Ant1	2412	Ant1	2385.77	-43.63	0.06871	≤2.5	PASS
NTNV	11N20 SISO	Ant1	2412	Ant1	2399.96	-30.51	1.40929	≤25	PASS
NTNV	11N20 SISO	Ant1	2472	Ant1	2485.33	-29.75	1.67880	≤25	PASS
NTNV	11N20 SISO	Ant1	2472	Ant1	2496.60	-44.33	0.05848	≤2.5	PASS

Test Graphs

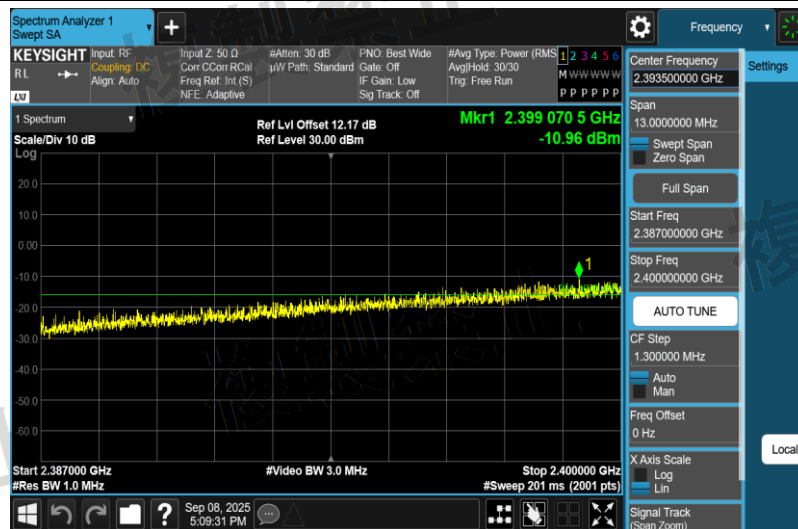
NTNV-11N20SISO-Ant1-2412-30~1000-PASS

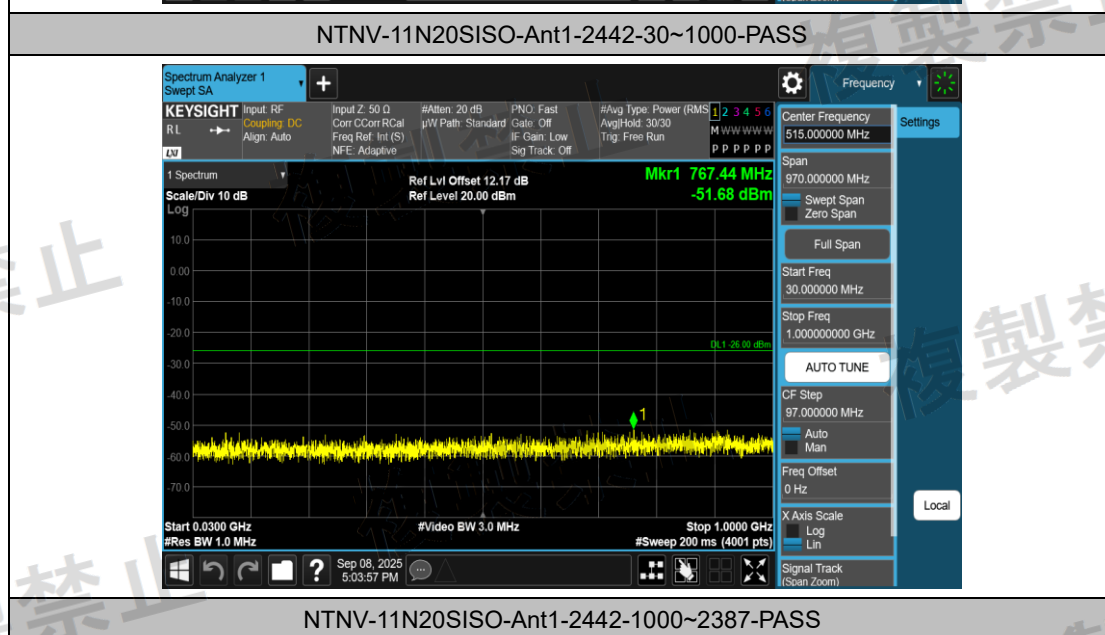
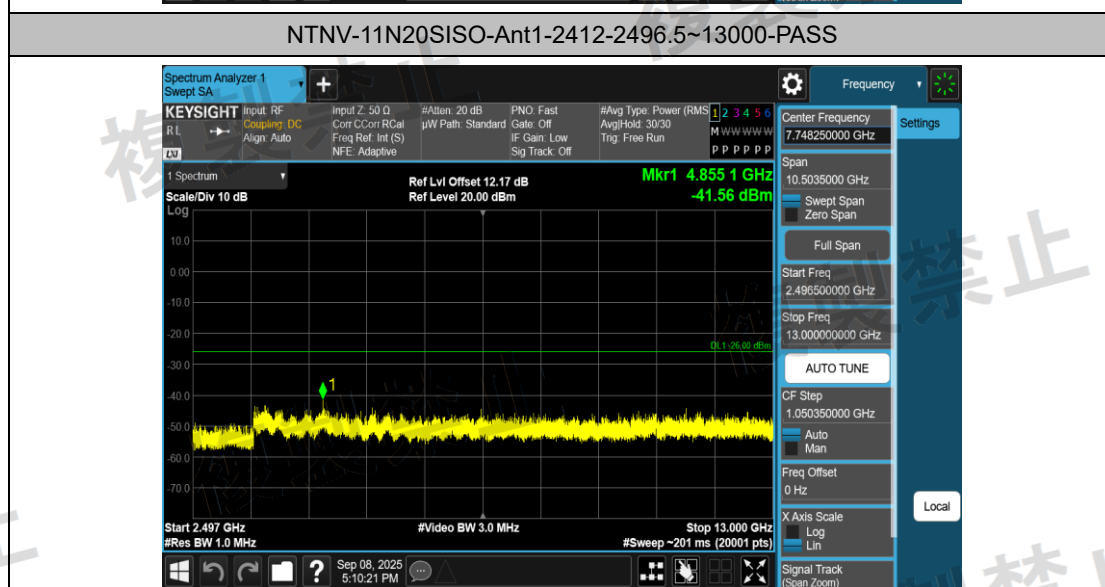
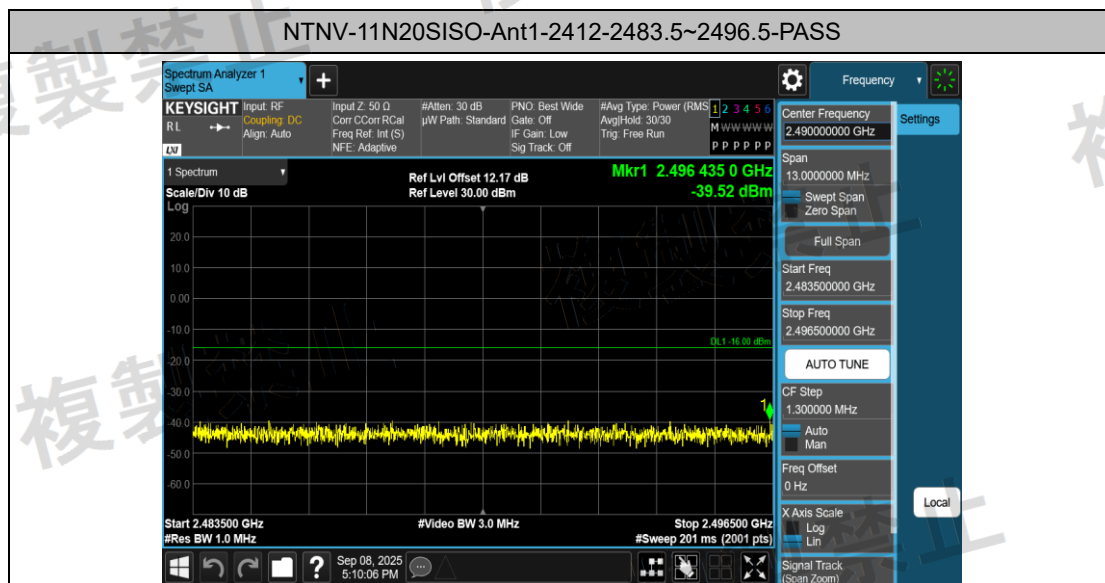


NTNV-11N20SISO-Ant1-2412-1000~2387-See table below



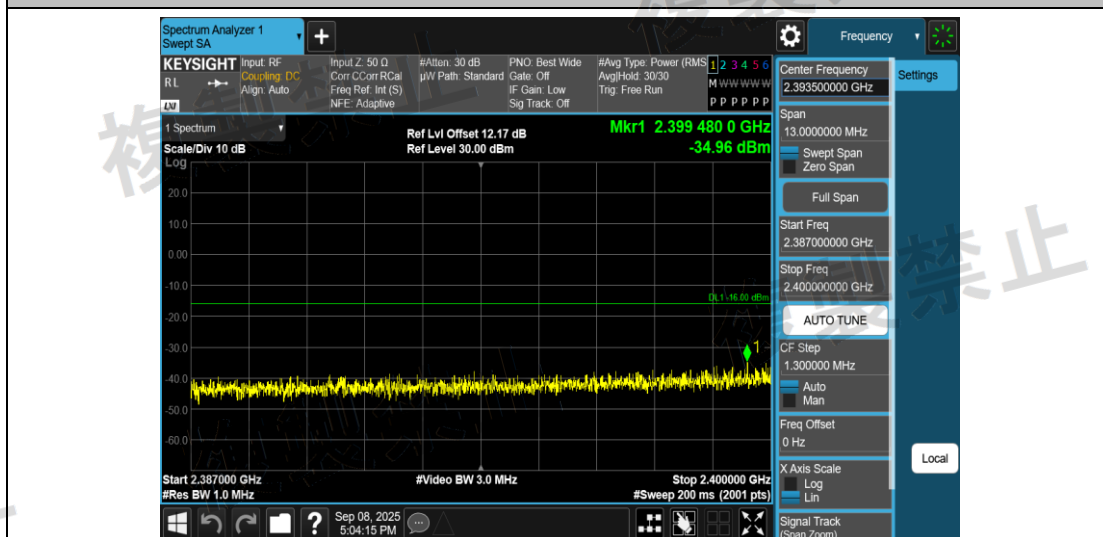
NTNV-11N20SISO-Ant1-2412-2387~2400-See table below



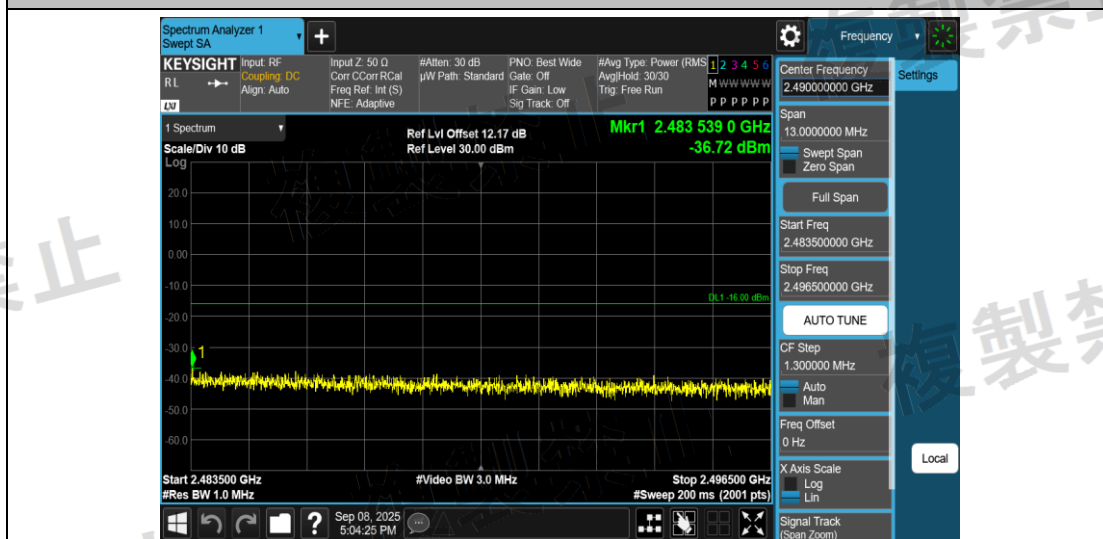




NTNV-11N20SISO-Ant1-2442-2387~2400-PASS



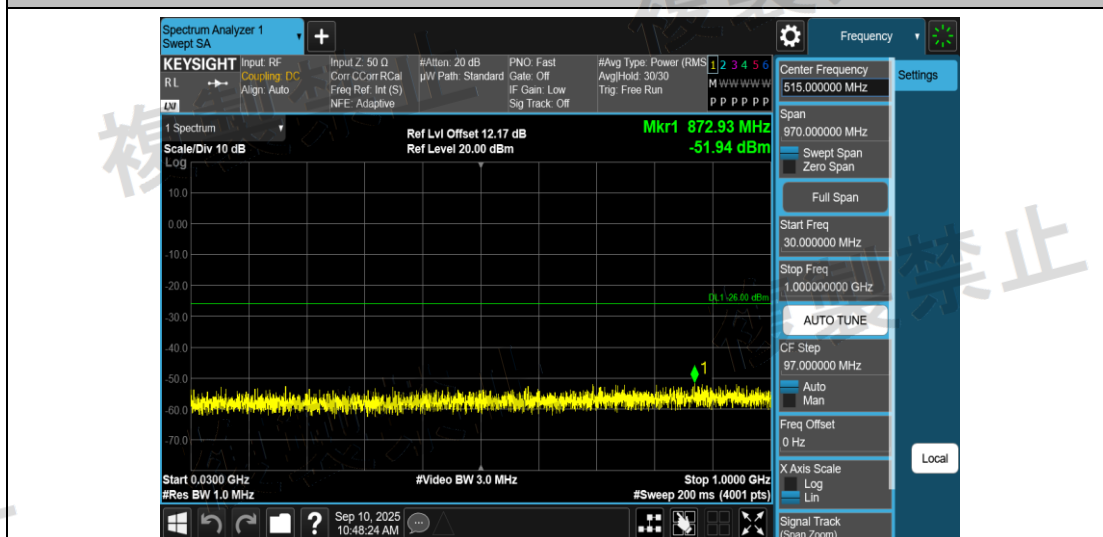
NTNV-11N20SISO-Ant1-2442-2483.5~2496.5-PASS



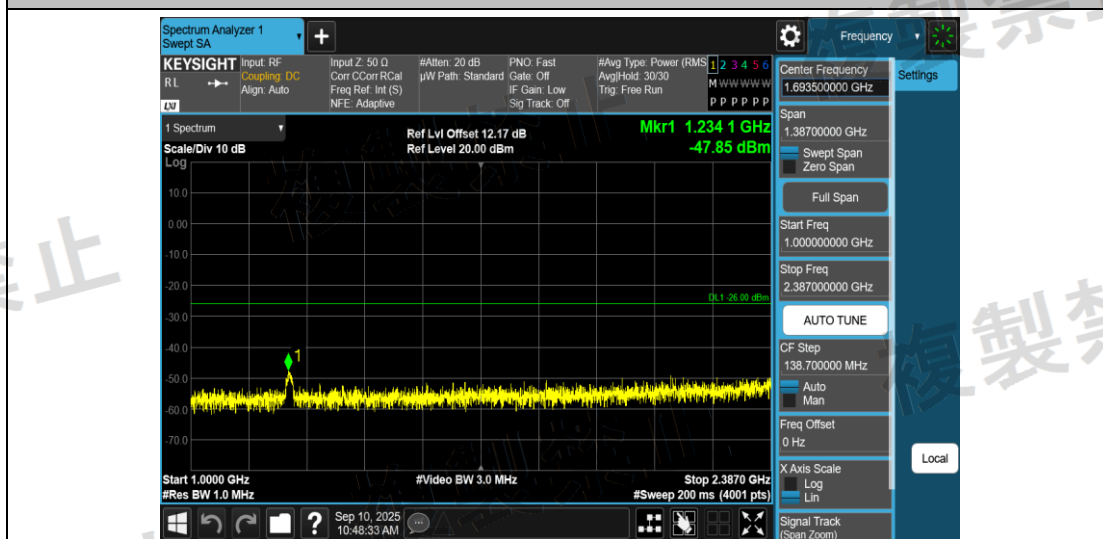
NTNV-11N20SISO-Ant1-2442-2496.5~13000-PASS



NTNV-11N20SISO-Ant1-2472-30~1000-PASS



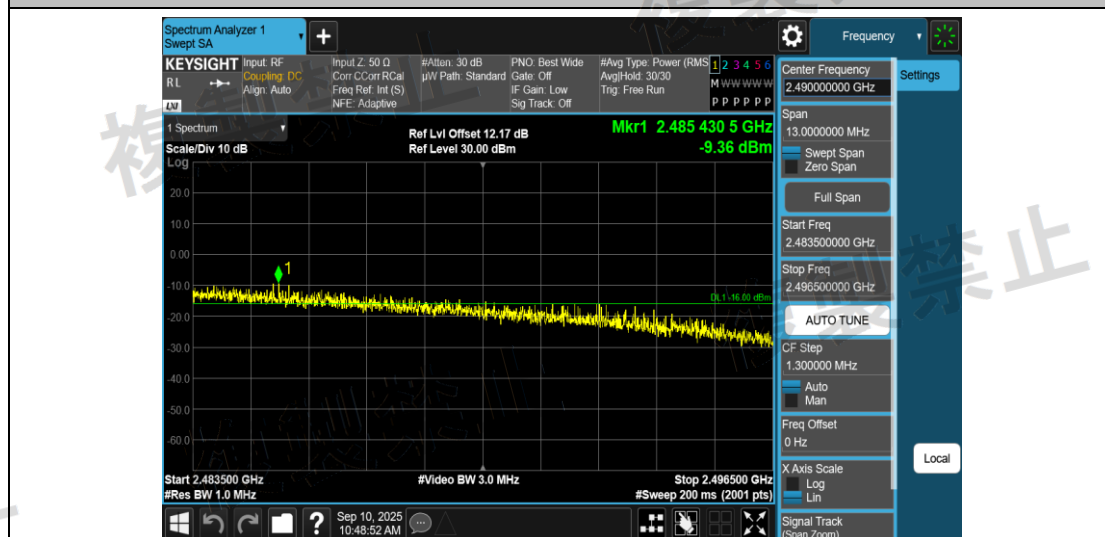
NTNV-11N20SISO-Ant1-2472-1000~2387-PASS



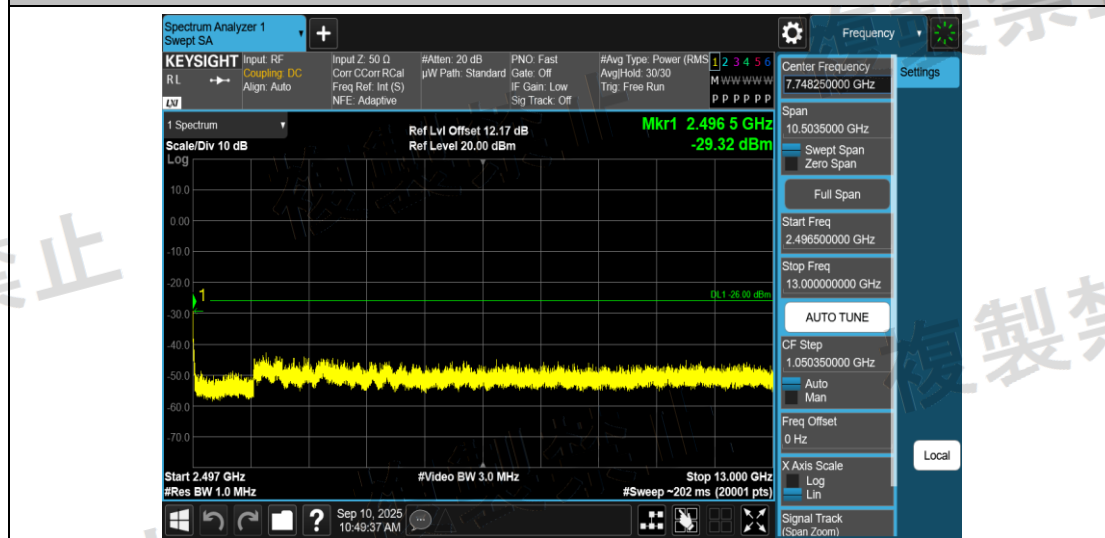
NTNV-11N20SISO-Ant1-2472-2387~2400-PASS



NTNV-11N20SISO-Ant1-2472-2483.5~2496.5-See table below

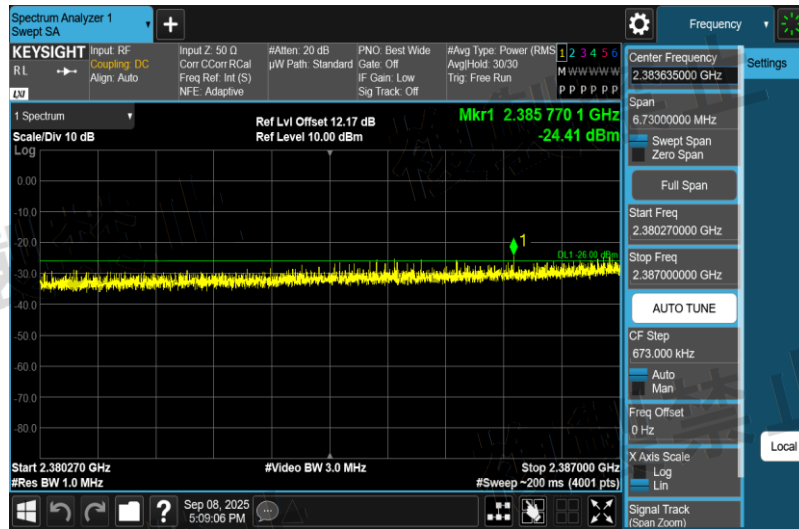


NTNV-11N20SISO-Ant1-2472-2496.5~13000-See table below



Test Graphs_Step2

NTNV-11N20SISO-Ant1-2412-1000~2387-PASS

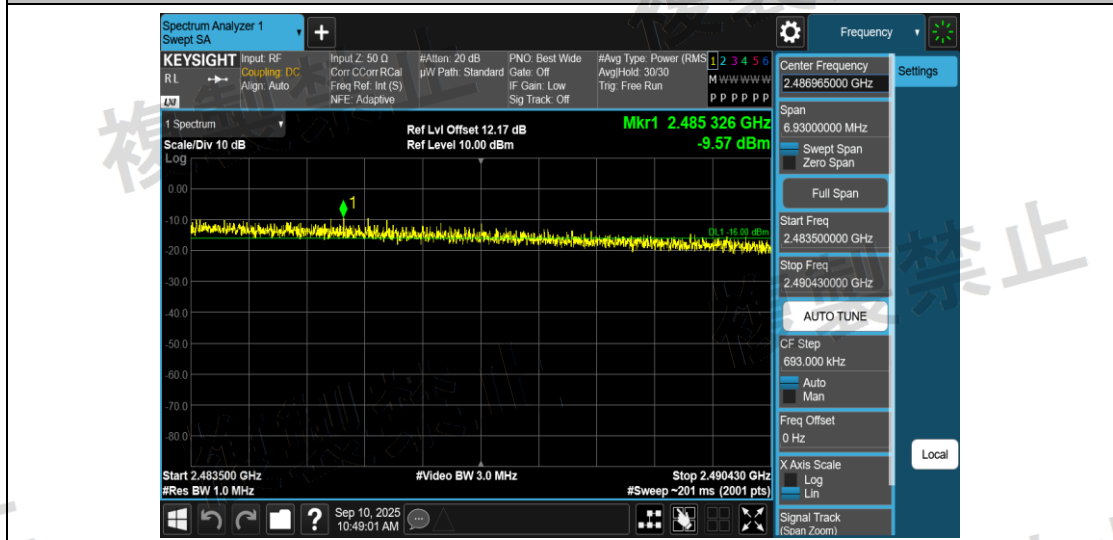


NTNV-11N20SISO-Ant1-2412-2387~2400-PASS

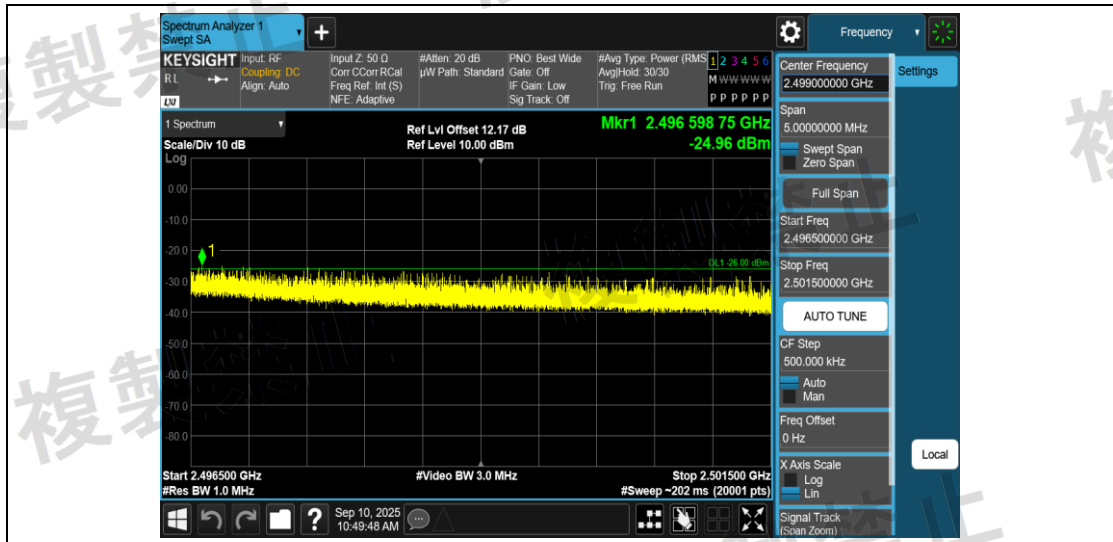




NTNV-11N20SISO-Ant1-2472-2483.5~2496.5-PASS



NTNV-11N20SISO-Ant1-2472-2496.5~13000-PASS



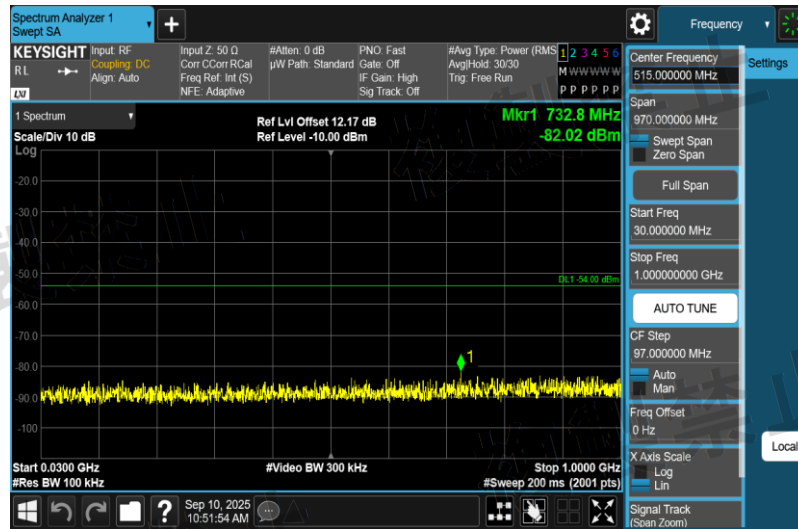
Appendix F: Spurious Emission of RX

Test Result

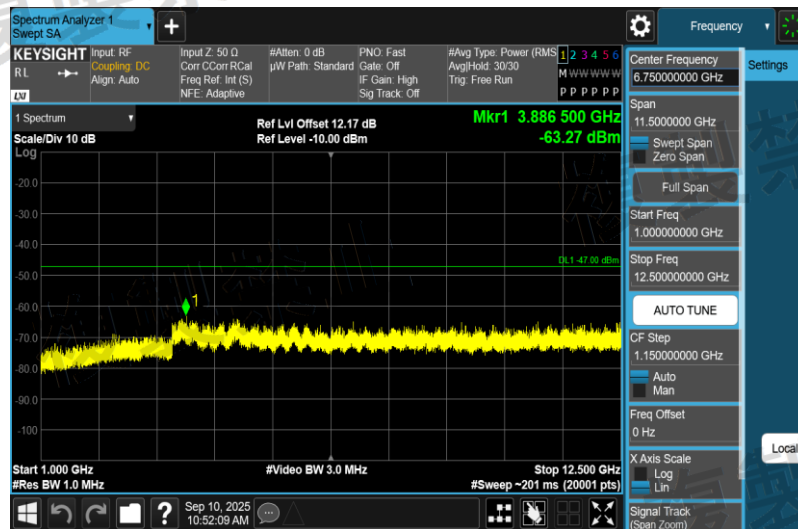
TestCondition	TestMode	Antenna	Frequency[MHz]	Freq.Range [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Result [nW/MHz]	Limit [nW/MHz]	Verdict
NTNV	11N20SI SO	Ant1	2412	30~1000	-82.02	≤-54	0.00628	≤4	PASS
NTNV	11N20SI SO	Ant1	2412	1000~12500	-63.28	≤-47	0.46989	≤20	PASS
NTNV	11N20SI SO	Ant1	2442	30~1000	-82.59	≤-54	0.00551	≤4	PASS
NTNV	11N20SI SO	Ant1	2442	1000~12500	-62.77	≤-47	0.52845	≤20	PASS
NTNV	11N20SI SO	Ant1	2472	30~1000	-82.73	≤-54	0.00533	≤4	PASS
NTNV	11N20SI SO	Ant1	2472	1000~12500	-63.24	≤-47	0.47424	≤20	PASS

Test Graphs

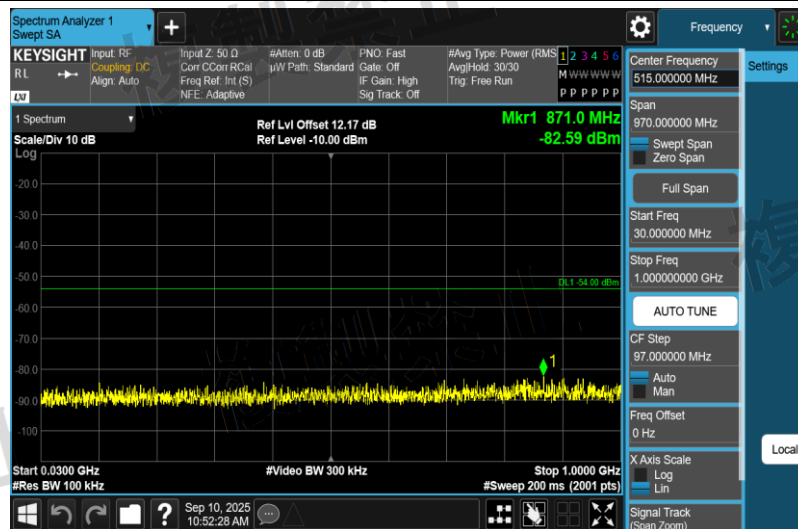
NTNV-11N20SISO-Ant1-2412-30~1000-PASS



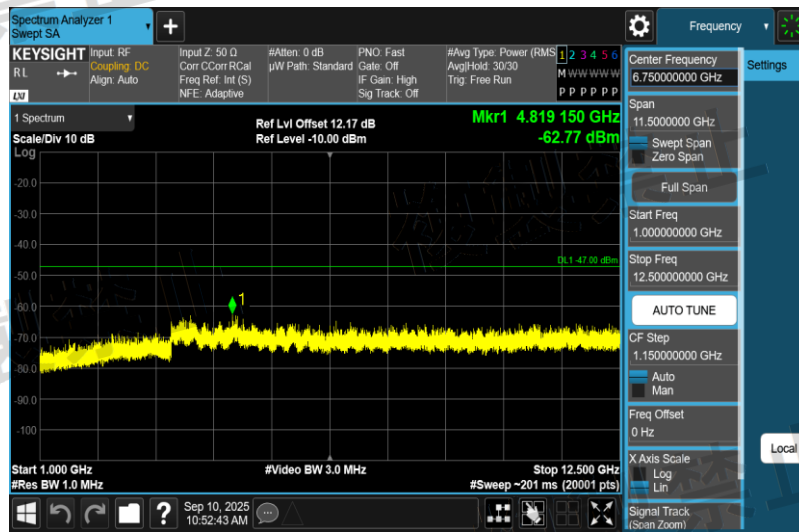
NTNV-11N20SISO-Ant1-2412-1000~12500-PASS



NTNV-11N20SISO-Ant1-2442-30~1000-PASS



NTNV-11N20SISO-Ant1-2442-1000~12500-PASS



NTNV-11N20SISO-Ant1-2472-30~1000-PASS



NTNV-11N20SISO-Ant1-2472-1000~12500-PASS

