

Japan - TEST REPORT

Report Number : **68950260241601** Date of Issue: **2026-03-24**

Model : **A2441**

Product : Smart Watch

Applicant : Anhui Huami Information Technology Co., Ltd.

Address : Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II,
No.2800, Chuangxin Road, High-tech Zone, China (Anhui) Pilot Free
Trade Zone, 518000 Hefei City, PEOPLE'S REPUBLIC OF CHINA

Manufacturer : Anhui Huami Information Technology Co., Ltd.

Address : Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II,
No.2800, Chuangxin Road, High-tech Zone, China (Anhui) Pilot Free
Trade Zone, 518000 Hefei City, PEOPLE'S REPUBLIC OF CHINA

Factory 1 : Guangdong Enok Communication Co., Ltd.

Address : No. 62, Lixiang Road, Dalang Town, Dongguan City, Guangdong
province, P.R. China

Factory 2 : VIET NAM BROAD TELECOMUNICATION CO., LTD

Address : Lot CN-10, Van Trung Industrial Park, Van Trung Commune, Viet Yen
District, Bac Giang Province, Vietnam

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : **38**

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1 General Information

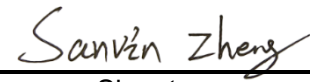
1.1 Notes

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Project Engineer

2026-03-24
Date

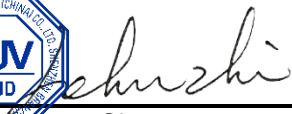
Sanvin Zheng
Name


Signature

Approved by
Project Manager

2026-03-24
Date

John Zhi
Name



Signature

1.2 Testing Laboratory

Address of Test Laboratory:

Site 1:

TÜV SÜD Certification and Testing (China) Co., Ltd. – Shenzhen Branch

Address: Building 12 & 13, Zhiheng Wisdomland Business Park,

Guankou Erlu, Nantou, Nanshan District,

Shenzhen, Guangdong, China

Phone: +86-755-8828 6998

Fax: +86-755-8828 5299

1.3 Details of Applicant

Client: Anhui Huami Information Technology Co., Ltd.

Address: Room 401-1, Building H8, Hefei Innovation Industrial Park Phase II, No.2800,
Chuangxin Road, High-tech Zone, China (Anhui) Pilot Free Trade Zone,
518000 Hefei City, PEOPLE'S REPUBLIC OF CHINA

Product Description: Smart Watch

Submitted Model No.: A2441

1.4 Application Details

Date of receipt of order: 2026-03-04

Date of receipt of test item: 2026-03-04

Date of test: 2026-03-04– 2026-03-19

1.5 Test Item

Refer to table 1

1.6 Applied Standard

APPLIED PRODUCT STANDARD

Specified Radio Equipment specified in
Article 38-2 paragraph 1 item 1 of the Radio Law,
Article 2 paragraph 1 item 19, MIC Notice No.88 Appendix No.43

1.7 Test Summary

Table 1. Summary of results

Conformance requirement		Result	Test Site
Essential parameter	Corresponding technical requirements		
Transmitter requirements	Antenna Power	PASS	Site 1
	Tolerances for Antenna Power	PASS	Site 1
	Frequency Tolerance	PASS	Site 1
	Transmission Rate	PASS	Site 1
	Occupied Frequency Bandwidth	PASS	Site 1
	Spread Bandwidth	N/A	N/A*
	Process Gain	N/A	N/A*
	Number of Carriers	N/A	N/A*
	Dwell Time	N/A	N/A*
	Spurious Emissions	PASS	Site 1
Receiver requirements	Secondary Radiated Emissions	PASS	Site 1
	Interference prevention function	PASS	Site 1
	Carrier sense	N/A	N/A*

NOTE 1: Measurement taken is within the measurement uncertainty of measurement system.

NOTE 2: “*” N/A is an abbreviation for Not Applicable.

2 Equipment Specification

2.1 General Description

The EUT is a Smart Watch, it supports Bluetooth Low Energy/Bluetooth BDR+EDR, 2.4GHz Wi-Fi and GNSS functions.

This report is for 2.4GHz Wi-Fi only.

2.2 Technical Data

EUT Description	
Description	Smart Watch
Model Number	A2441
Trademark	AMAZFIT
Operation frequency	802.11b/g/n20: 2412MHz-2472MHz
BT Antenna type	Metal Case
Antenna Gain	-5.15dBi
Modulation	GFSK
Rating:	DC IN: 5V $\pm$ 1.5A Battery: 3.91V $\pm$ 780mAh
EUT Accessory	
Charging Base	---

Power Supply Voltage Fluctuation Test

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.91V	DC 4.3V	DC 3.5V
Output To RF Module	DC 3.3V	DC 3.3V	DC 3.3V
Voltage Variation (%)	0	0	0

Note: Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage) / Output Normal Voltage * 100

For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.

2.3 Test conditions and test Connections

2.3.1 Test Conditions

The EUT will be connected to test system in order to simulate normal operating conditions (with reference to the guidance given in the standard for this type of equipment).

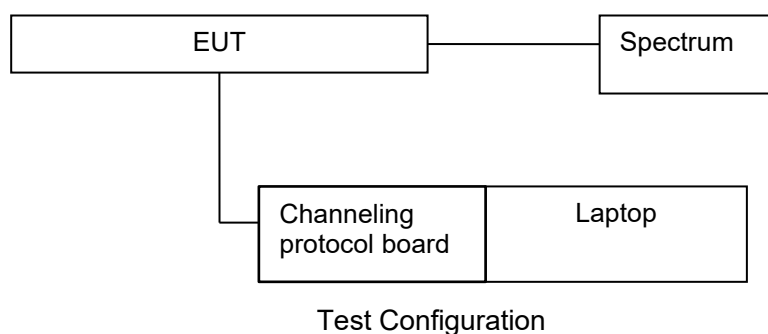
Test software information:

Test Software Version	SSCOM	
Mode	Setting TX Power	Packet Type
802.11b	Default	DSSS
802.11g	Default	OFDM
802.11n20	Default	OFDM

The system was configured to non-hopping mode.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.

2.3.2 Test Connections



2.4 Auxiliary Equipment Used during Test

Table 3. Auxiliary Equipment Used during Test

Description	Manufacturer	Model no.	Serial no.	CAL. Due Date
Laptop	Thinkpad	X220	/	/

2.5 Lists of Test Instruments

Table 4. Lists of Test Instruments

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18-001	262825	1	2026-4-18
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2026-4-18
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157W	68-4-93-14-003	101226/100929	1	2026-4-18
Cable	JUNFLON	J12J103539	68-4-90-19-003-A20	----	1	2026-8-10
Cable	JUNFLON	J12J103539	68-4-90-19-003-A21	----	1	2026-8-10
Cable	JUNFLON	J12J103539	68-4-90-19-003-A22	----	1	2026-8-10
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2026-4-19
Test software	TST PASS	TST PASS	68-4-93-23-001-A03	Version 2.0	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	3	2027-10-07

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 d)

Remark: The above test experimental equipment is applied to method c) for calibration.

Calibration company: CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE

From JRL Article 24-2, paragraph 4, Item 2

2.6 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	4.44ppm
Uncertainty for Output power test	$\pm 0.83\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Power density test	$\pm 1.85\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.4.3 and 4.5.1.

3 Measurements Result

3.1 Antenna Power and Tolerances for Antenna Power

3.1.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.1.2 Limit

- The antenna power of a transmitting equipment (with a frequency band of 2,427 – 2,470.75 MHz, for spread spectrum systems using FH systems, hybrid systems of DS and FH, or hybrid systems of FH and OFDM) shall be such that the mean power within a bandwidth of 1 MHz is 3 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.
- The antenna power of a transmitting equipment using a spread spectrum system other than any of those in “a” and the OFDM system shall be such that the mean power within a bandwidth of 1 MHz is 10 mW or less in the case of modulation using a standard coding test signal with the same transmission rate as that of the modulation signal.

Modulation system	Frequency band used	Antenna power (max.)	EIRP (max.)	
			Omnidirectional case	Directional case
DS, OFDM	2,400 - 2,483.5 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
FH, DS-FH FH-OFDM	2,400 - 2,483.5 MHz	3 mW/MHz	6.91 dBm/MHz	16.91 dBm/MHz
	Excluding 2,427 - 2,470.75 MHz	10 mW/MHz	12.14 dBm/MHz	22.14 dBm/MHz
Other than the above	2,400 - 2,483.5 MHz	10 mW	12.14 dBm	22.14 dBm

Tolerances for Antenna Power:

Upper limits of the tolerance for antenna power shall be 20% respectively. Note that they represent the tolerance for the maximum rated antenna power and that no upper and lower limits of the tolerance are regulated in the case of antenna power reduction for communications reasons.

3.1.3 Test Procedure

1) Search for peak power frequency

Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the

Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz

Video BW: 3MHz

Span: 40MHz

Sweep time: Auto

Sweep data points: 1001 or greater

Detector: Peak

Trace Mode: Max Hold.

(2) Measurement of average antenna power

Centre Frequency: Frequency of peak power found in step (1)

Span: 0 Hz

Resolution BW: 1MHz

Video BW: 1MHz

Detector: Sample

Sweep: Minimum time required to make an accurate measurement.

For burst type (intermittent) transmission, sweep time shall be greater than one burst interval.

Sweep data points: 1001 or greater

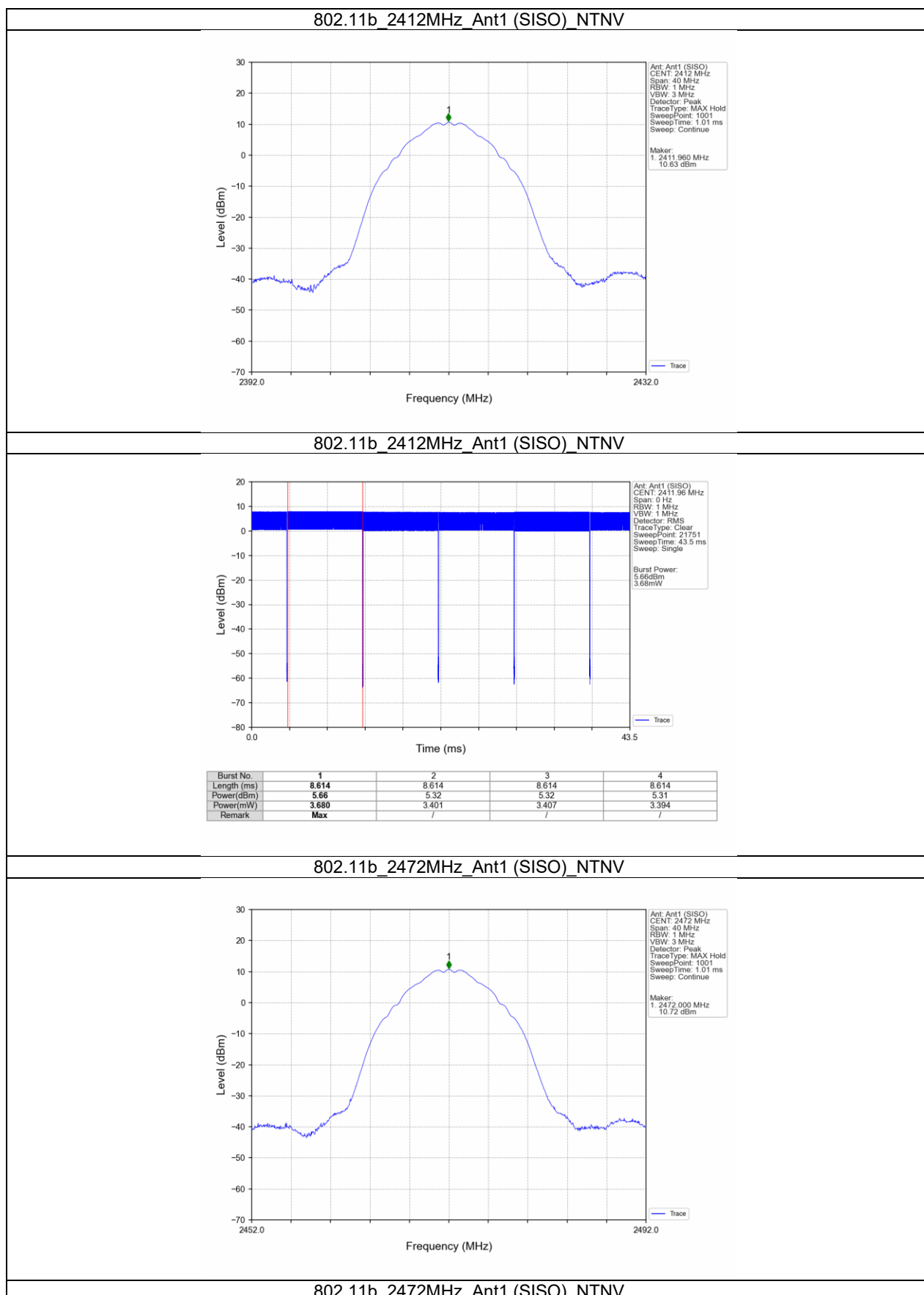
Note: The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

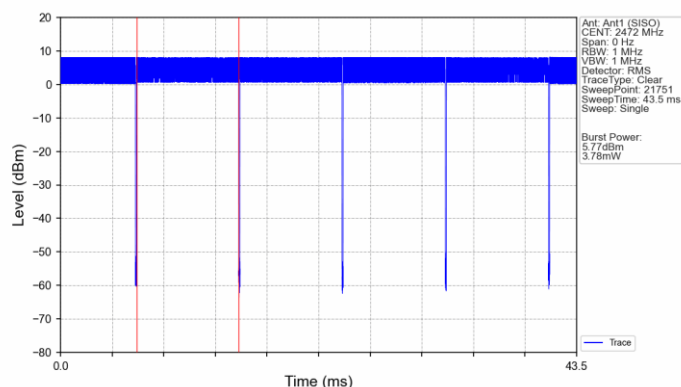
3.1.4 Test result

ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	802.11b	SISO	2412	1	3.680	<=10.00	3.800	-3.16	<=20	Pass
			2472	1	3.776	<=10.00	3.800	-0.63	<=20	Pass
	802.11g	SISO	2412	1	2.075	<=10.00	2.100	-1.19	<=20	Pass
			2472	1	1.584	<=10.00	2.100	-24.57	<=20	Pass
	802.11n (HT20)	SISO	2412	1	1.769	<=10.00	2.000	-11.55	<=20	Pass
			2472	1	1.940	<=10.00	2.000	-3.00	<=20	Pass

Test Condition	Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
NTNV	11B	Ant1	2412	5.66	0.51	≤12.14	PASS
NTNV	11B	Ant1	2472	5.77	0.62	≤12.14	PASS
NTNV	11G	Ant1	2412	3.17	-1.98	≤12.14	PASS
NTNV	11G	Ant1	2472	2.00	-3.15	≤12.14	PASS
NTNV	11N20SISO	Ant1	2412	2.48	-2.67	≤12.14	PASS
NTNV	11N20SISO	Ant1	2472	2.88	-2.27	≤12.14	PASS

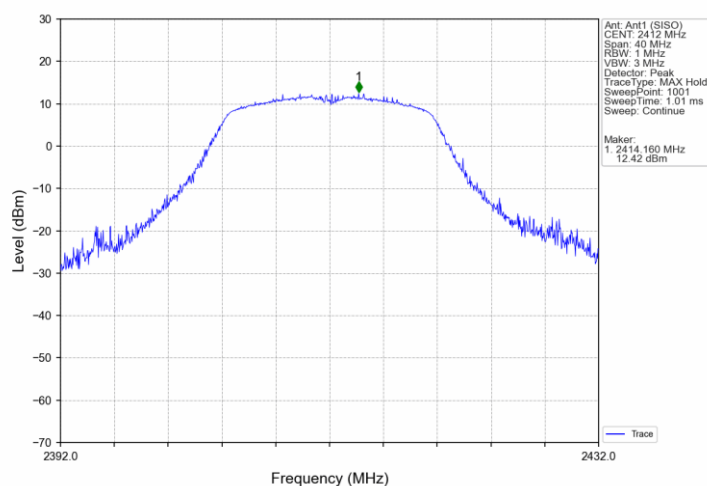
3.1.5 Result



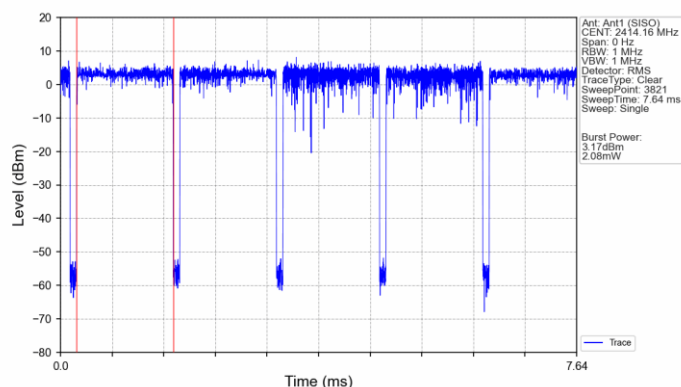


Burst No.	1	2	3	4
Length (ms)	8.614	8.614	8.614	8.614
Power(dBm)	5.77	5.75	5.74	5.75
Power(mW)	3.776	3.760	3.751	3.762
Remark	Max	/	/	/

802.11g 2412MHz Ant1 (SISO) NTN

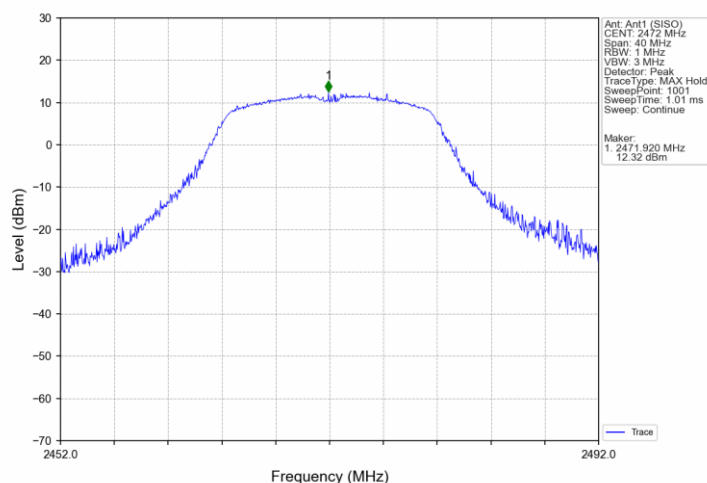


802.11g 2412MHz Ant1 (SISO) NTN

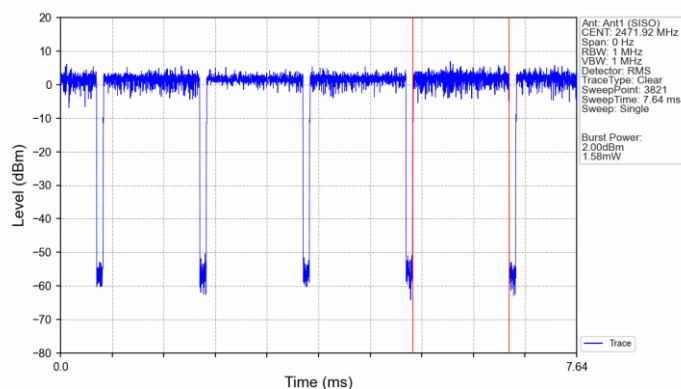


Burst No.	1	2	3	4
Length (ms)	1.430	1.428	1.430	1.430
Power(dBm)	3.17	3.13	3.15	2.81
Power(mW)	2.075	2.054	2.066	1.910
Remark	Max	/	/	/

802.11g 2472MHz Ant1 (SISO) NTN

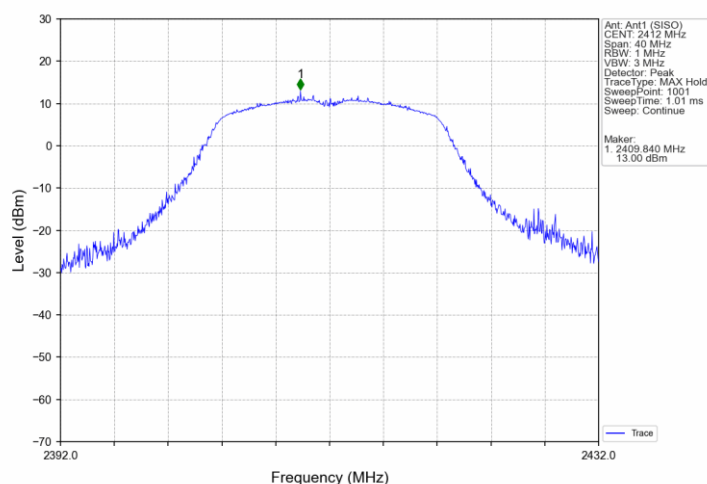


802.11g 2472MHz Ant1 (SISO) NTN

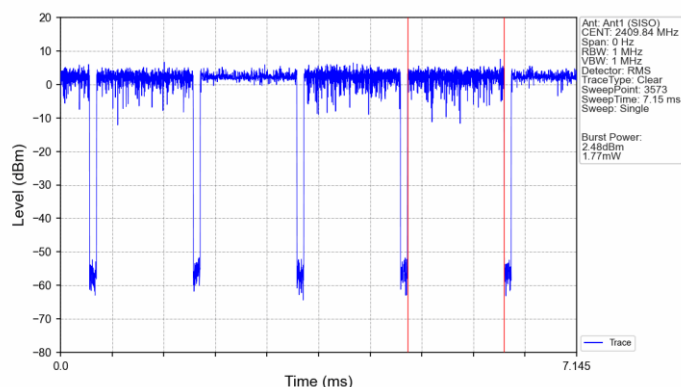


Burst No.	1	2	3	4
Length (ms)	1.430	1.430	1.428	1.430
Power (dBm)	1.63	1.66	1.69	2.00
Power (mW)	1.457	1.465	1.474	1.584
Remark	/	/	/	Max

802.11n(HT20) 2412MHz Ant1 (SISO) NTN

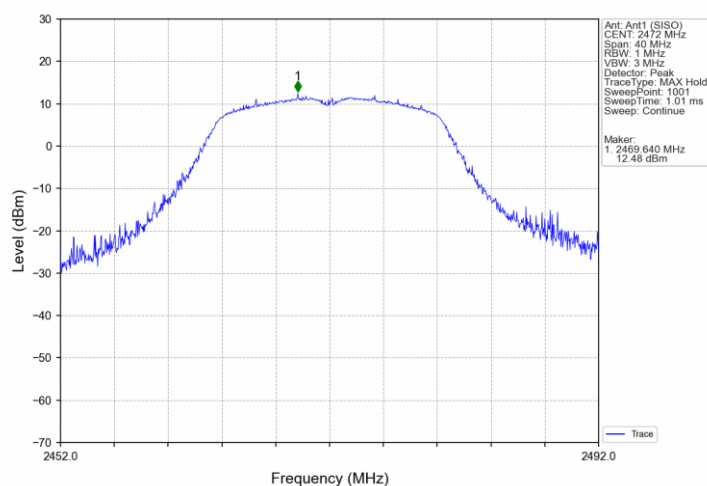


802.11n(HT20) 2412MHz Ant1 (SISO) NTN

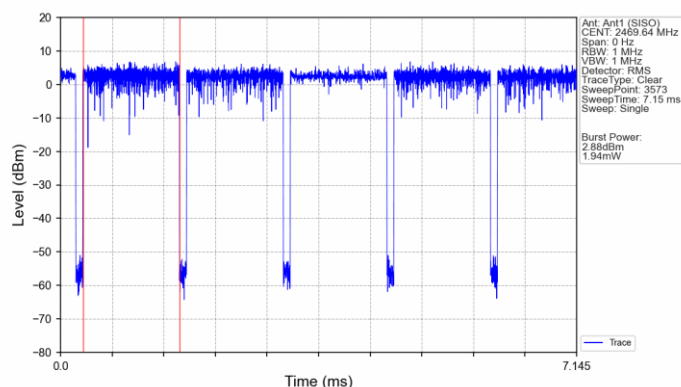


Burst No.	1	2	3	4
Length (ms)	1.338	1.338	1.336	1.338
Power(dBm)	2.21	2.43	2.45	2.48
Power(mW)	1.662	1.751	1.759	1.769
Remark	/	/	/	Max

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Burst No.	1	2	3	4
Length (ms)	1.336	1.338	1.338	1.336
Power(dBm)	2.88	2.53	2.50	2.49
Power(mW)	1.940	1.791	1.779	1.774
Remark	Max	/	/	/

3.2 Frequency Tolerance

3.2.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.2.2 Limit

Tolerance of frequency: $\pm 50 \times 10^{-6}$.

3.2.3 Test procedure

If the fluctuation of input voltage to the circuit of the radio part (excl. power) in the test equipment is confirmed below $\pm 1\%$, Measurement shall be tested with the rated voltage.

When there is a fluctuation of $\pm 10\%$ input voltage from external power to the test equipment. In case the test equipment is designed to function only within the specified fluctuation range of $\pm 10\%$ for the voltage source tests shall be conducted applying the rated voltage and a respective specified maximum/minimum value of fluctuation range.

Set the EUT on the test frequency and transmit.

Stop the modulation (stop the spreading), set on "continuous transmission of no-modulated radiation" in principle. If impossible, on "continuous burst transmission of no-modulated radiation", or a modulation mode to generate a specific frequency spectrum so that the frequency can be measured using a spectrum analyzer (example: a wave of the sub-carrier).

In case of no-modulation (consecutive or continuous burst), direct measurement is conducted with the frequency meter.

In case of burst wave, the measurement is conducted for a time period to achieve a sufficient accuracy. The mean value is employed as the measurement value.

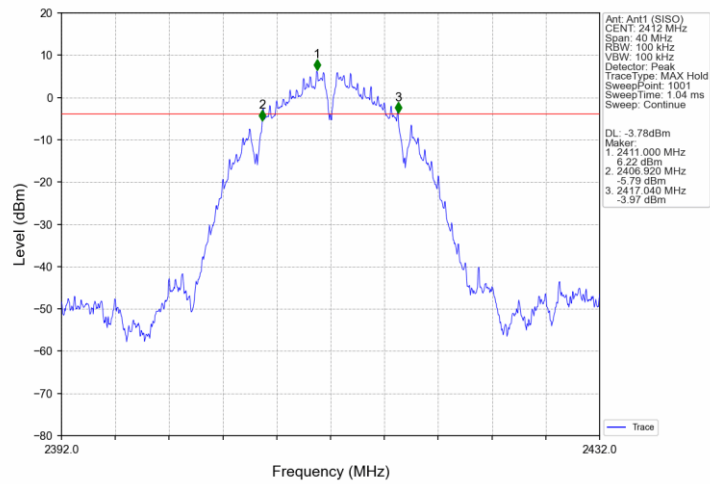
In case of a test mode generating specific frequency spectrum, the spectrum frequency is measured with the spectrum analyzer.

3.2.4 Test Result

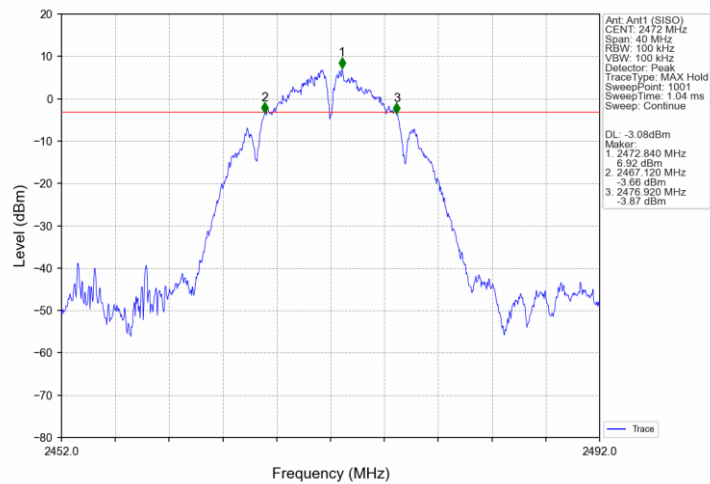
Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	802.11b	SISO	2412	2411.980	-8.29	-50 to 50	Pass
			2472	2472.020	8.09	-50 to 50	Pass
	802.11g	SISO	2412	2412.000	0.00	-50 to 50	Pass
			2472	2472.040	16.18	-50 to 50	Pass
	802.11n (HT20)	SISO	2412	2411.960	-16.58	-50 to 50	Pass
			2472	2472.000	0.00	-50 to 50	Pass

3.2.5 Result

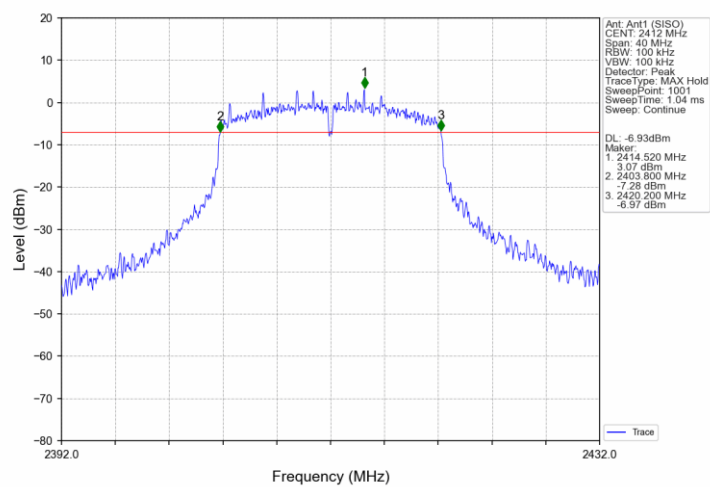
802.11b 2412MHz_Ant1 (SISO)_NTNV



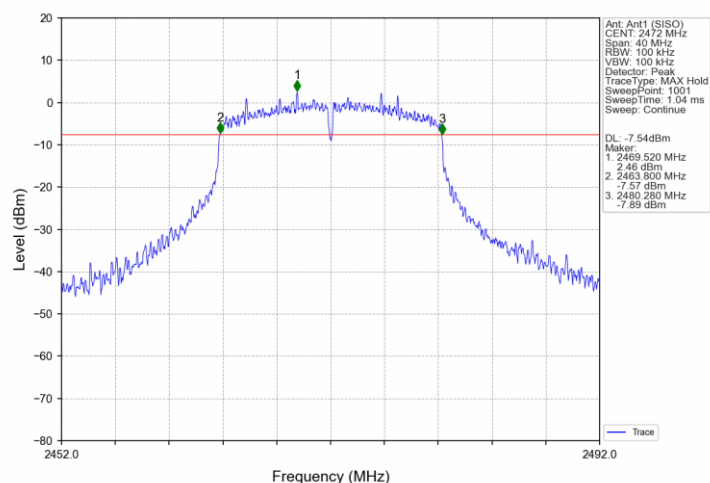
802.11b 2472MHz_Ant1 (SISO)_NTNV



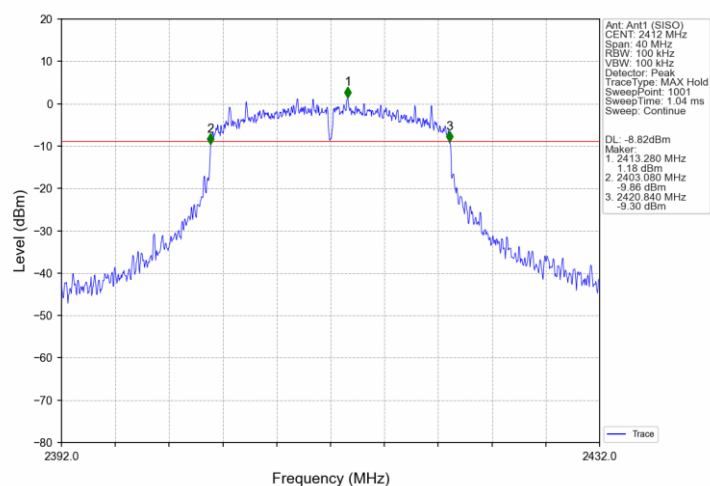
802.11g 2412MHz_Ant1 (SISO)_NTNV



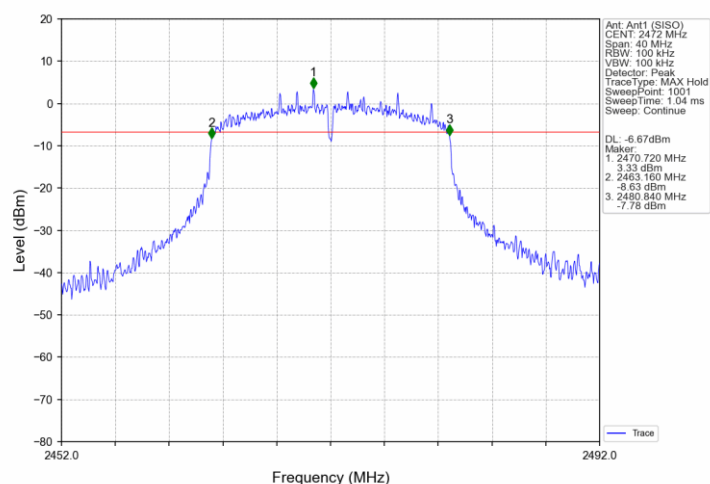
802.11g 2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



3.3 Occupied Frequency Bandwidth

3.3.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.3.2 Limit

Permissible value for occupied bandwidth using the FH system, a hybrid system combining DS and FH systems, or a hybrid system combining FH and OFDM systems shall be 83.5 MHz or less, while necessary bandwidth (minimum occupied bandwidth sufficient to ensure information transmission of required quality at a required transmission rate for the system used under specified conditions for a given emission type) using a system other than any of the above shall be 26 MHz or less.

3.3.3 Test Procedure

- 1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 300 kHz

Video BW: 300 kHz

Span: 40MHz

Sweep data points: 1001 or greater

Sweep time: Auto

Detector: Peak.

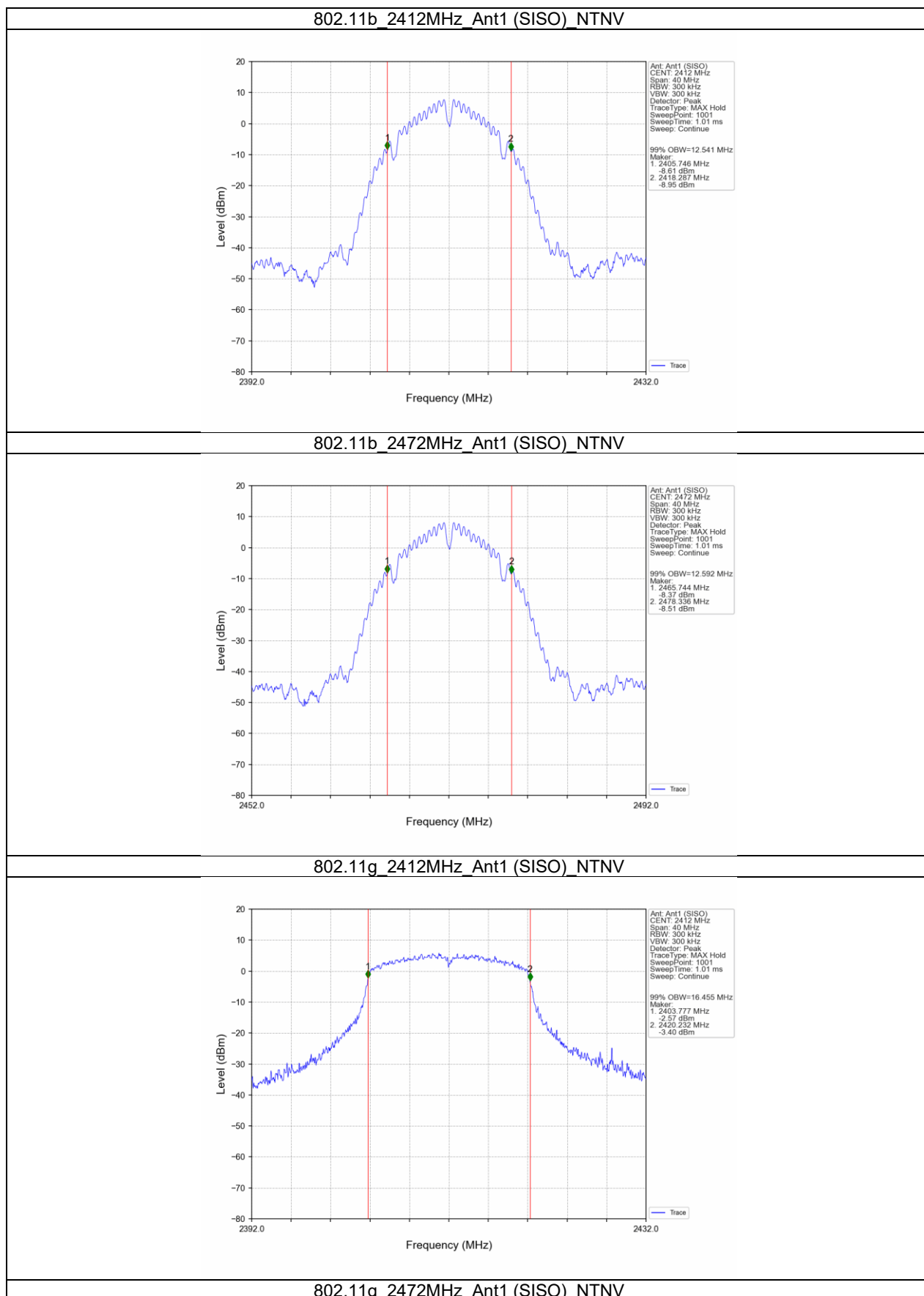
Trace Mode: Max Hold.

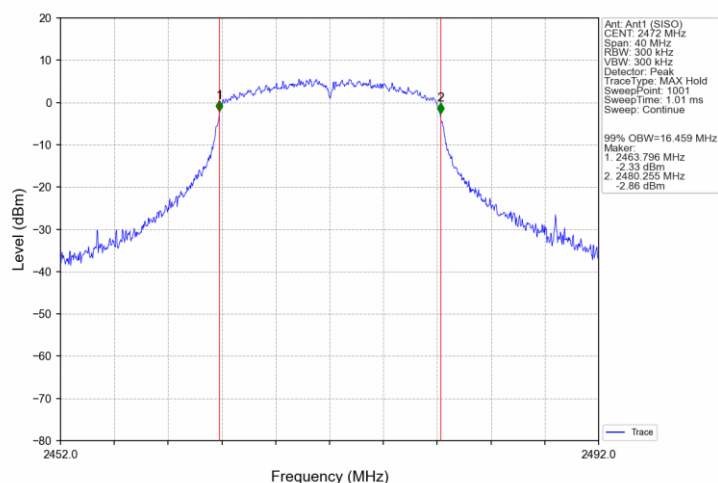
- 2) When the trace is complete, measure the Occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

3.3.4 Test Result

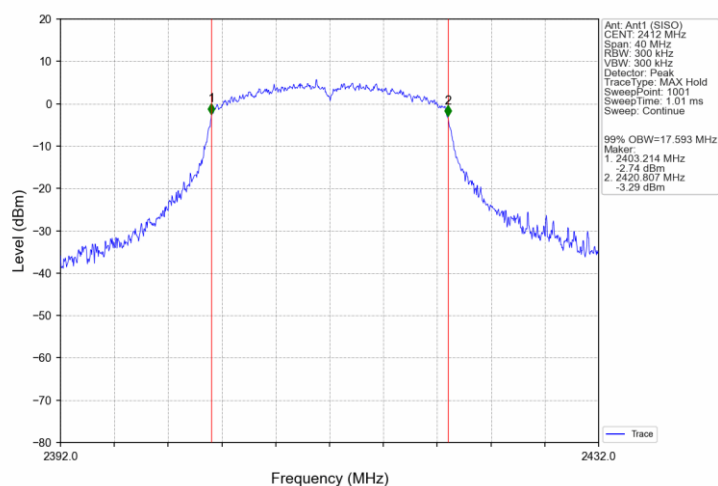
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
				ANT1	Limit	
NTNV	802.11b	SISO	2412	12.541	<=26	Pass
			2472	12.592	<=26	Pass
	802.11g	SISO	2412	16.455	<=26	Pass
			2472	16.459	<=26	Pass
	802.11n (HT20)	SISO	2412	17.593	<=26	Pass
			2472	17.580	<=26	Pass

3.3.5 Result

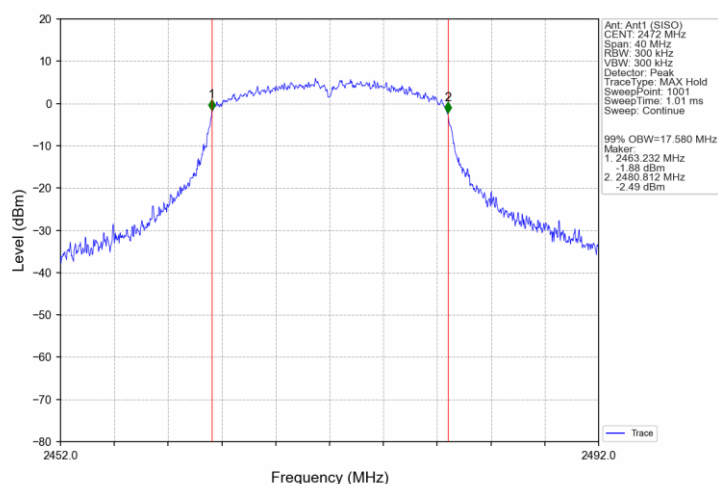




802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



3.4 Transmitter Spurious Emissions (Conducted) (For transmitter)

3.4.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.4.2 Limit

Permissible mean power of spurious emission of each frequency supplied to a feeder, that is, mean power of spurious emission in the 1 MHz bandwidth at frequency f other than frequency band used shall be as follows: a. $2,387\text{MHz} \leq f \leq 2,400\text{MHz}$ and $2,483.5\text{MHz} < f \leq 2,496.5\text{MHz}$ 25 μW or less b. $2,387\text{MHz} > f$ and $2,496.5\text{MHz} < f$ 2.5 μW or less

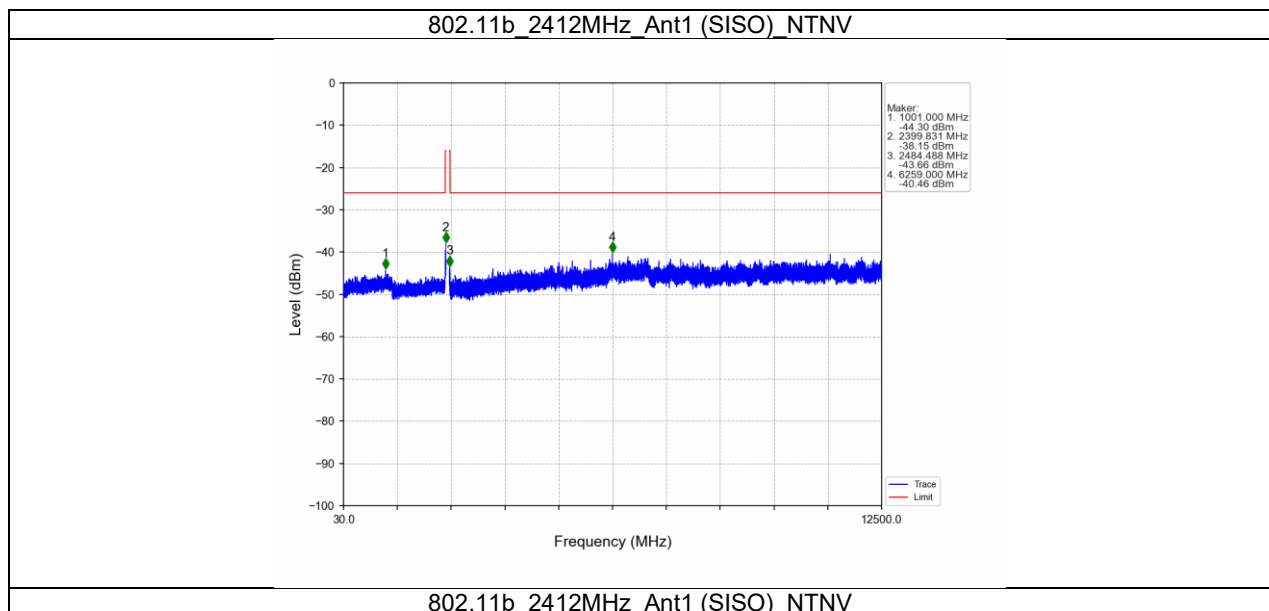
3.4.3 Test Procedure

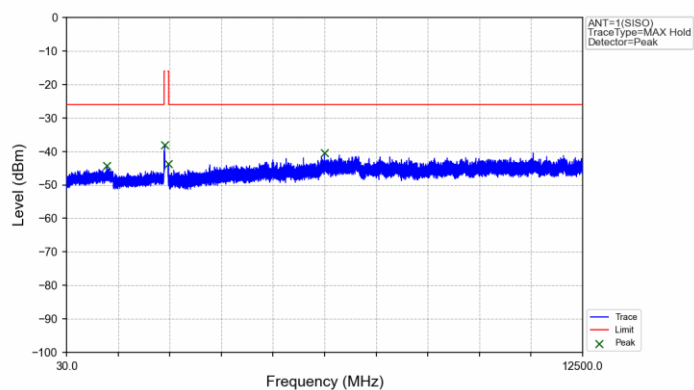
- 1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 1MHz, Video BW: 1MHz.
Detector: Peak. Trace Mode: Max Hold.
- 2) All the emissions from 30MHz to 12.5GHz were measured and recorded, if spurious emissions are greater than [limit -3dB] in 1MHz RBW, then more detailed measurements are required.

3.4.4 Test Result

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)		
802.11b	SISO	2412	1	30	2387	1001	-44.30	0.037	/	/	2.5	Pass
				2387	2400	2399.831	-38.15	0.153	/	/	25	Pass
				2483.5	2496.5	2484.488	-43.66	0.043	/	/	25	Pass
				2496.5	12500	6259	-40.46	0.090	/	/	2.5	Pass
		2472	1	30	2387	1087	-44.74	0.034	/	/	2.5	Pass
				2387	2400	2399.103	-44.40	0.036	/	/	25	Pass
				2483.5	2496.5	2483.513	-35.27	0.297	/	/	25	Pass
				2496.5	12500	7012.5	-40.87	0.082	/	/	2.5	Pass
802.11g	SISO	2412	1	30	2387	2386	-36.07	0.247	/	/	2.5	Pass
				2387	2400	2399.896	-13.89	40.832	-30.15	0.966	25	Pass
				2483.5	2496.5	2483.968	-43.34	0.046	/	/	25	Pass
				2496.5	12500	9249	-40.52	0.089	/	/	2.5	Pass
		2472	1	30	2387	1105	-44.56	0.035	/	/	2.5	Pass
				2387	2400	2398.037	-43.62	0.043	/	/	25	Pass
				2483.5	2496.5	2483.63	-10.32	92.897	-28.77	1.327	25	Pass
				2496.5	12500	2502.5	-36.91	0.204	/	/	2.5	Pass
802.11n (HT20)	SISO	2412	1	30	2387	2386	-35.88	0.258	/	/	2.5	Pass
				2387	2400	2399.688	-13.43	45.394	-30.80	0.832	25	Pass
				2483.5	2496.5	2485.84	-43.61	0.044	/	/	25	Pass
				2496.5	12500	7982.5	-40.61	0.087	/	/	2.5	Pass
		2472	1	30	2387	1003.5	-44.82	0.033	/	/	2.5	Pass
				2387	2400	2395.502	-43.93	0.040	/	/	25	Pass
				2483.5	2496.5	2483.552	-11.23	75.336	-27.69	1.702	25	Pass
				2496.5	12500	2500.5	-35.84	0.261	/	/	2.5	Pass

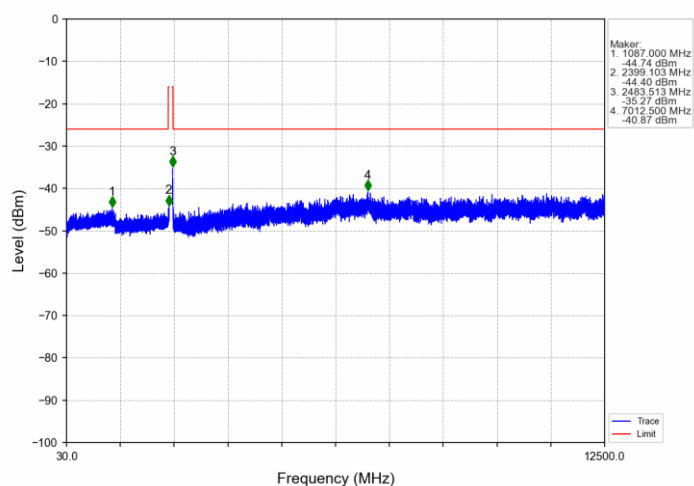
3.4.5 Result



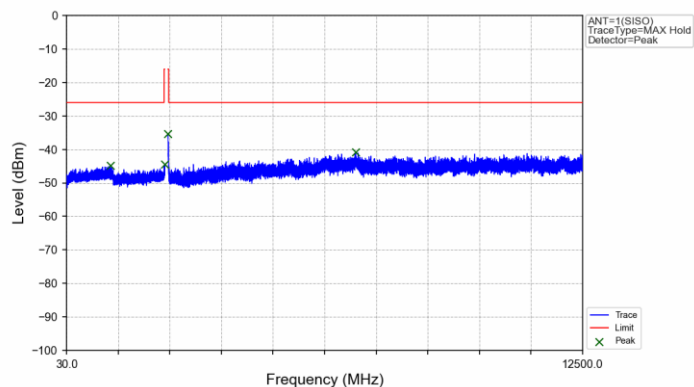


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1001.000	-44.30	/	-26	Pass
2387	2400	1	1	2399.831	-38.15	/	-16	Pass
2483.5	2496.5	1	1	2484.488	-43.66	/	-16	Pass
2496.5	12500	1	1	6259.000	-40.46	/	-26	Pass

802.11b 2472MHz Ant1 (SISO) NTN

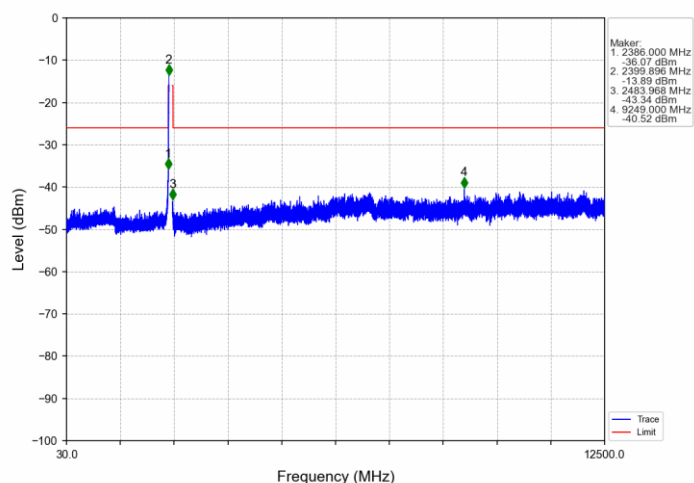


802.11b 2472MHz Ant1 (SISO) NTN

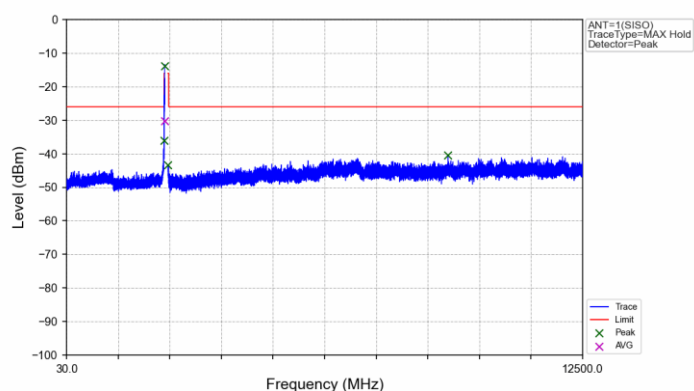


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1087.000	-44.74	/	-26	Pass
2387	2400	1	1	2399.103	-44.40	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-35.27	/	-16	Pass
2496.5	12500	1	1	7012.500	-40.87	/	-26	Pass

802.11g 2412MHz Ant1 (SISO) NTN

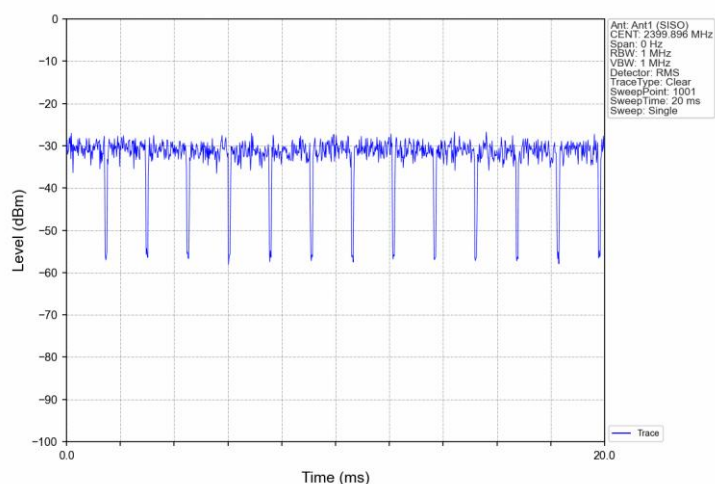


802.11g 2412MHz Ant1 (SISO) NTN

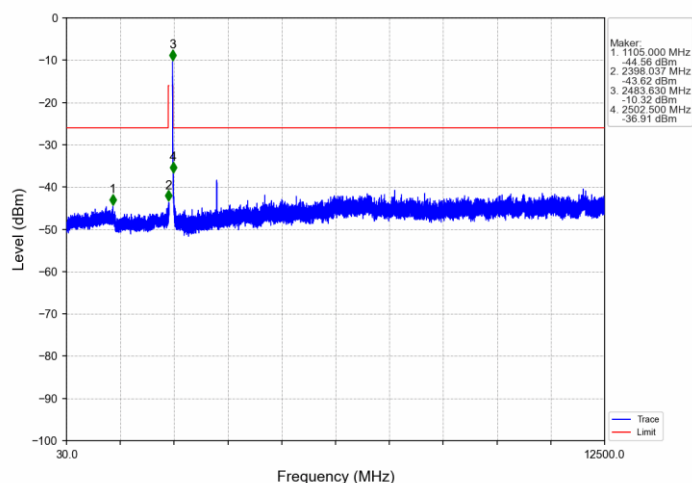


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-36.07	/	-26	Pass
2387	2400	1	1	2399.896	-13.89	-30.15	-16	Pass
2483.5	2496.5	1	1	2483.968	-43.34	/	-16	Pass
2496.5	12500	1	1	9249.000	-40.52	/	-26	Pass

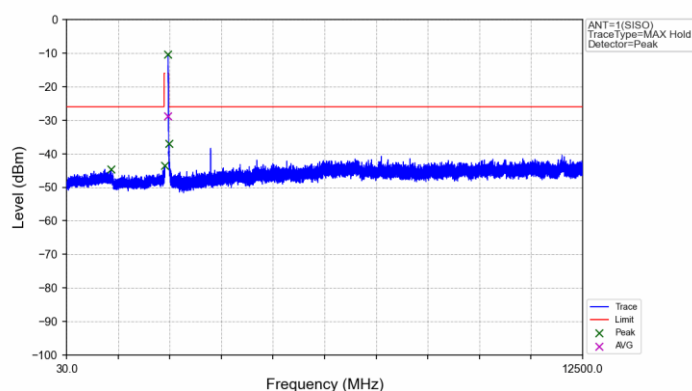
802.11g 2412MHz Ant1 (SISO) NTN



802.11g 2472MHz Ant1 (SISO) NTN

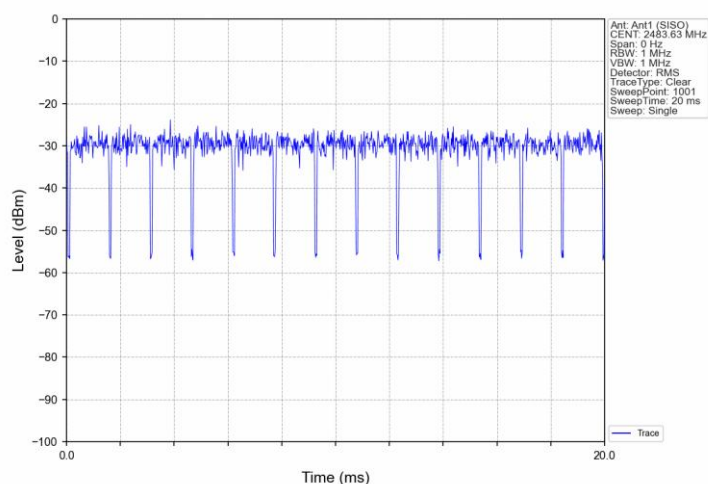


802.11g 2472MHz Ant1 (SISO) NTN

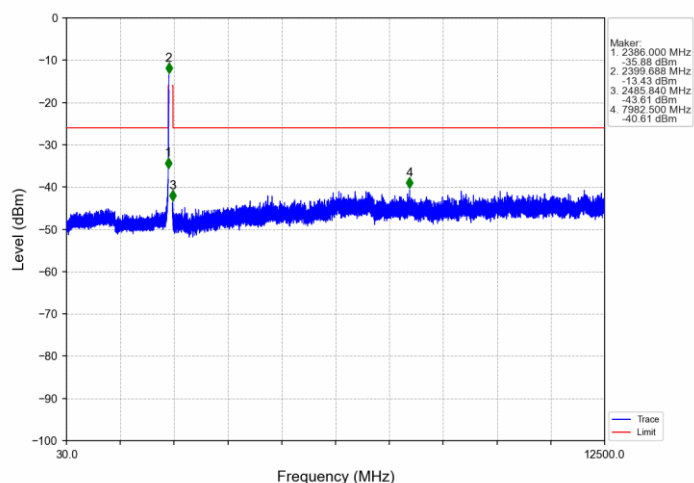


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1105.000	-44.56	/	-26	Pass
2387	2400	1	1	2398.037	-43.62	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-10.32	-28.77	-16	Pass
2496.5	12500	1	1	2502.500	-36.91	/	-26	Pass

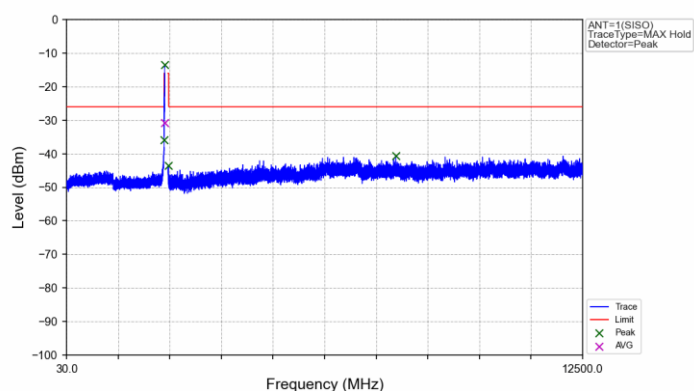
802.11g 2472MHz Ant1 (SISO) NTN



802.11n(HT20) 2412MHz Ant1 (SISO) NTN

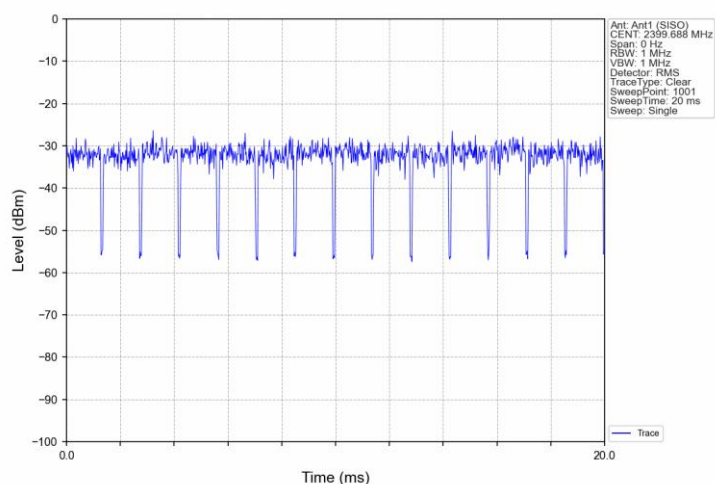


802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

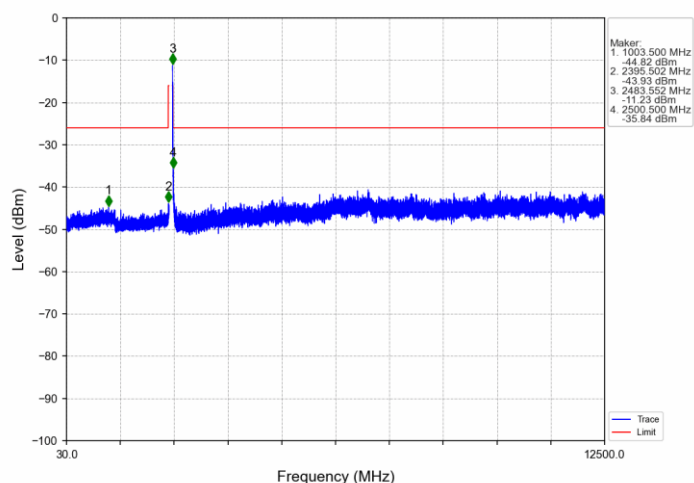


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-35.88	/	-26	Pass
2387	2400	1	1	2399.688	-13.43	-30.80	-16	Pass
2483.5	2496.5	1	1	2485.840	-43.61	/	-16	Pass
2496.5	12500	1	1	7982.500	-40.61	/	-26	Pass

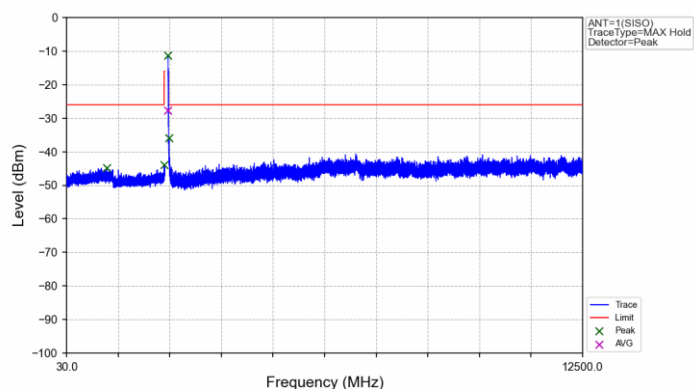
802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV

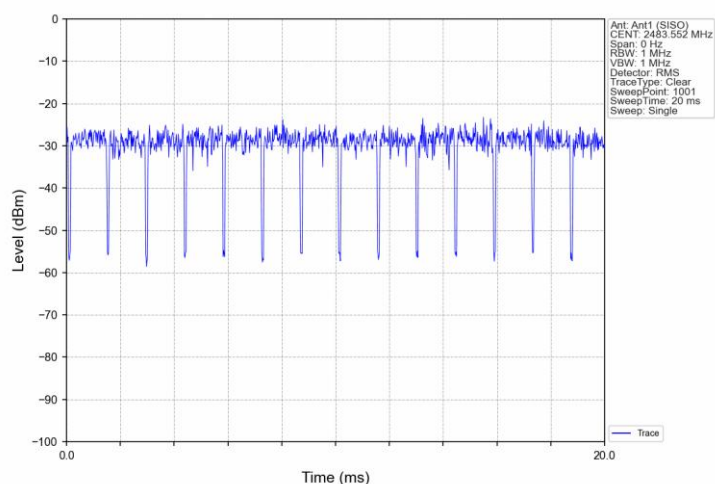


802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	1003.500	-44.82	/	-26	Pass
2387	2400	1	1	2395.502	-43.93	/	-16	Pass
2483.5	2496.5	1	1	2483.552	-11.23	-27.69	-16	Pass
2496.5	12500	1	1	2500.500	-35.84	/	-26	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



3.5 Secondary Radiated Emissions (Conducted) (For receiver)

3.5.1 Test condition

Test position:	Receiving
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.5.2 Limit

The limit on secondary emissions radiated from the receiving equipment within which the function of other radio equipment will not be impaired shall be, in terms of the power of a dummy antenna circuit that has the same electrical constant as the receiving antenna, 4 nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz or higher as measured using the circuit.

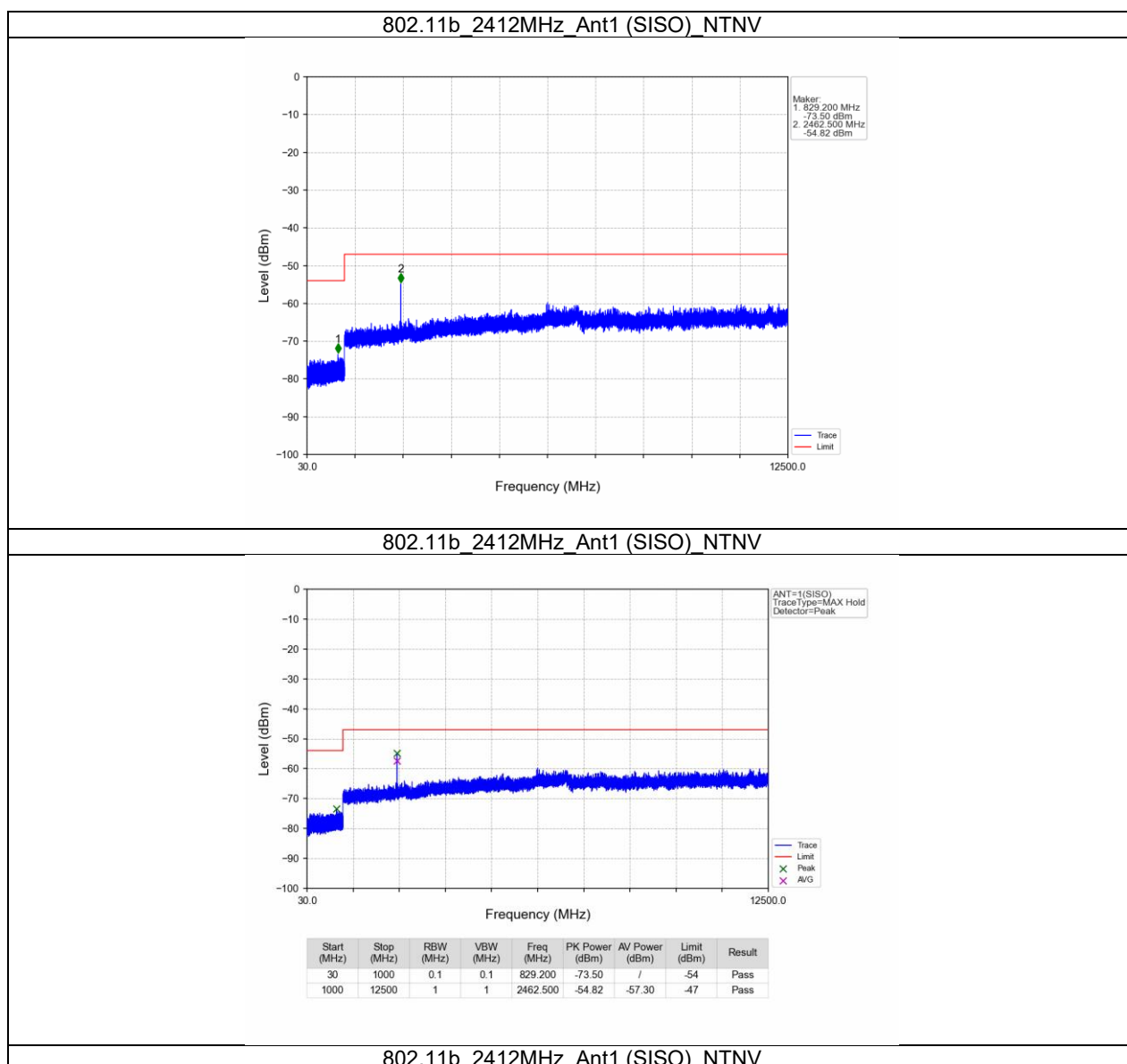
3.5.3 Test Procedure

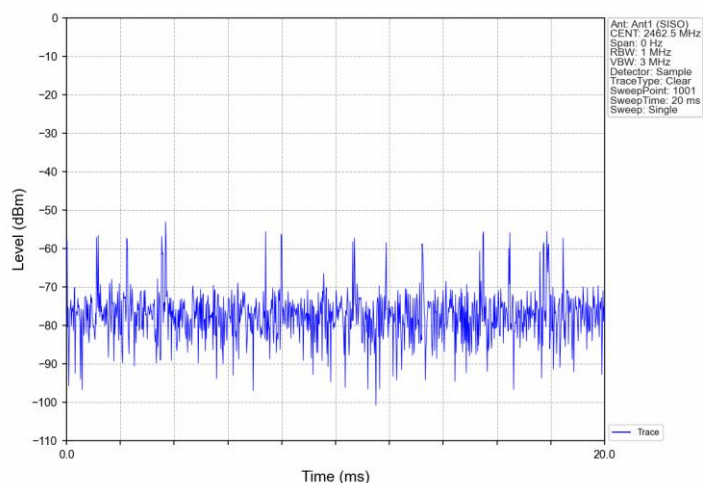
- 1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:
Resolution BW: 100 kHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Video BW: 100 kHz for frequency below 1GHz and 1MHz for frequency above 1GHz
Detector: Peak.
Trace Mode: Max Hold.
- 2) All the emissions from 30MHz to 12.5GHz were measured and record.
- 3) If the searched value is 1/10 or less of the allowable value specified in the Equipment Regulations, the searched value shall be the measured value.
- 4) If the searched value exceeds 1/10 of the allowable value specified in the equipment Regulations, the frequency sweep width is gradually narrowed to about 10 times the resolution bandwidth in order to improve the setting accuracy of the center frequency of the spectrum analyzer. Then, measure the secondary emission frequency, set the spectrum analyzer as below, perform averaging, and measure the secondary emission power.
Span: 0Hz
Resolution BW: 100kHz for frequency below 1GHz and 1MHz for frequency above 1GHz.
Video BW: Same with Resolution BW
Detector: Sample
Trace Mode: Max. Hold

3.5.4 Test Result

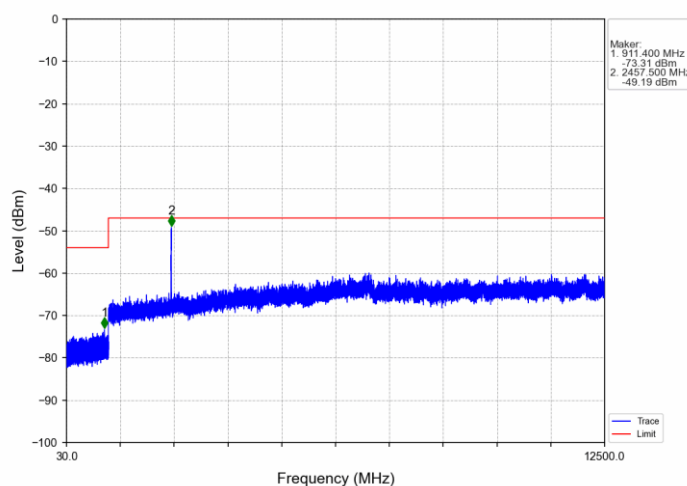
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	1	30	1000	829.2	-73.50	0.045	/	/	4	Pass
				1000	12500	2462.5	-54.82	3.296	-57.30	1.862	20	Pass
		2472	1	30	1000	911.4	-73.31	0.047	/	/	4	Pass
				1000	12500	2457.5	-49.19	12.050	-57.29	1.866	20	Pass
802.11g	SISO	2412	1	30	1000	941.35	-73.28	0.047	/	/	4	Pass
				1000	12500	2455.5	-50.52	8.872	-64.88	0.325	20	Pass
		2472	1	30	1000	827.85	-73.71	0.043	/	/	4	Pass
				1000	12500	2461.5	-52.98	5.035	-75.46	0.028	20	Pass
802.11n (HT20)	SISO	2412	1	30	1000	899.55	-74.25	0.038	/	/	4	Pass
				1000	12500	12007	-58.68	1.355	/	/	20	Pass
		2472	1	30	1000	941.7	-74.05	0.039	/	/	4	Pass
				1000	12500	10270.5	-59.82	1.042	/	/	20	Pass

3.5.5 Result

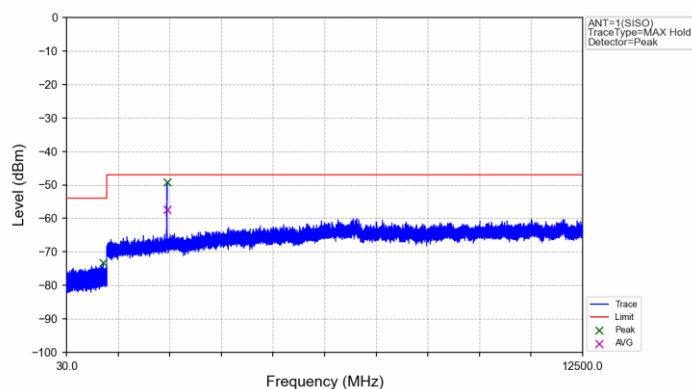




802.11b 2472MHz Ant1 (SISO) NTN

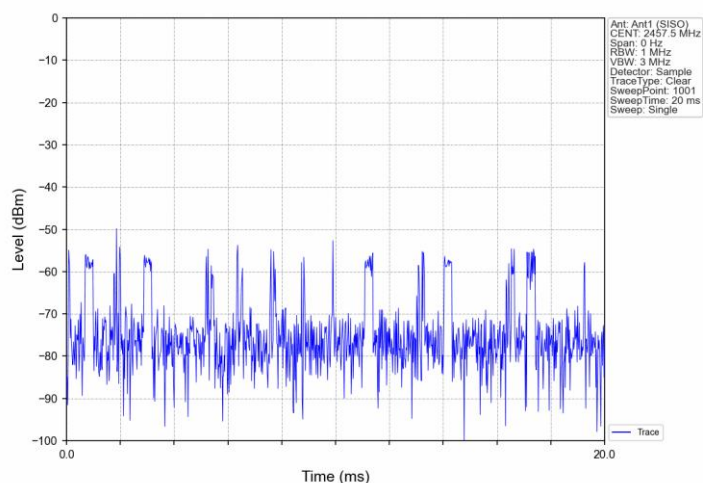


802.11b 2472MHz Ant1 (SISO) NTN

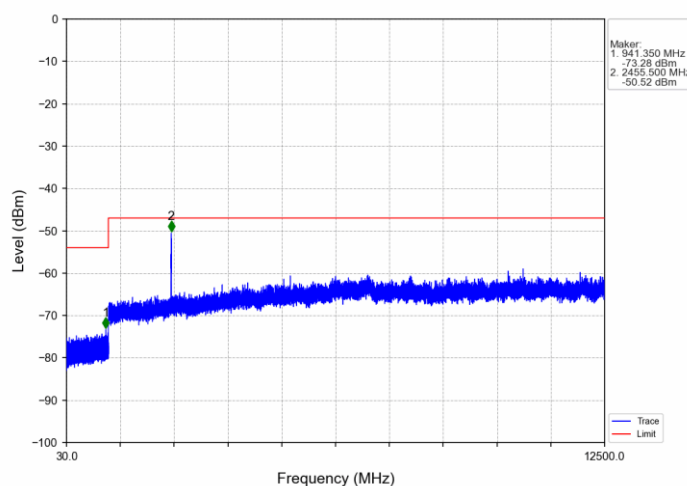


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	911.400	-73.31	/	-54	Pass
1000	12500	1	1	2457.500	-49.19	-57.29	-47	Pass

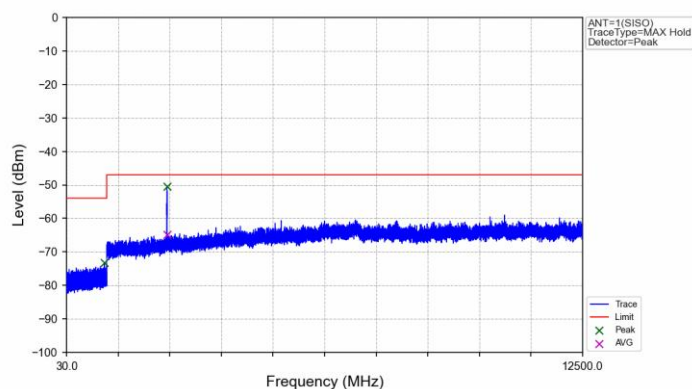
802.11b 2472MHz Ant1 (SISO) NTN



802.11g_2412MHz_Ant1 (SISO)_NTNV

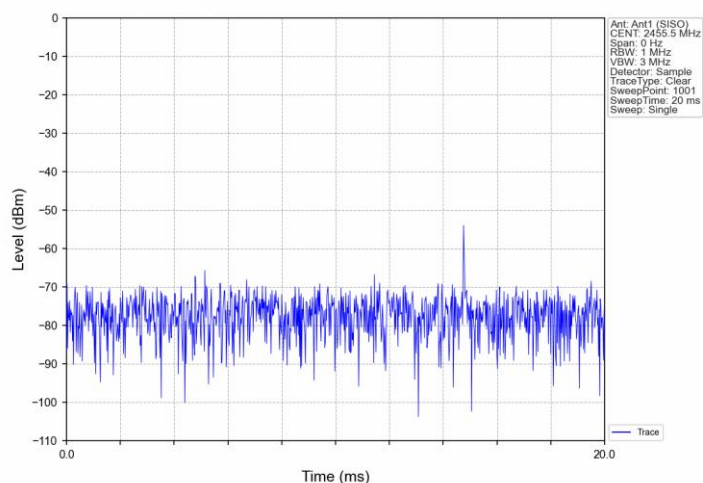


802.11g_2412MHz_Ant1 (SISO)_NTNV

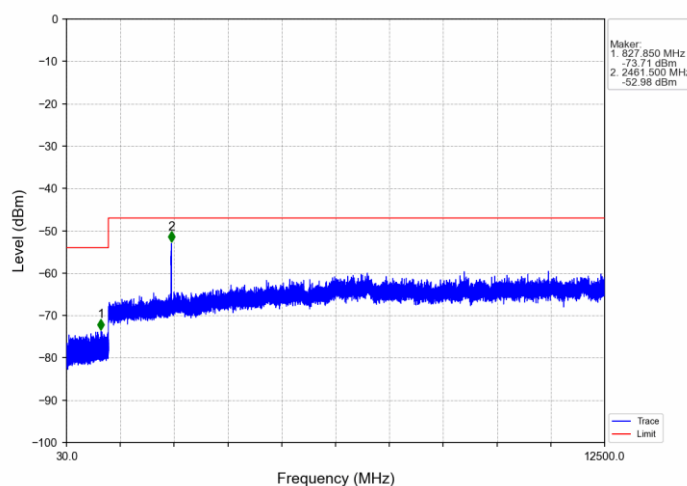


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	941.350	-73.28	/	-54	Pass
1000	12500	1	1	2455.500	-50.52	-64.88	-47	Pass

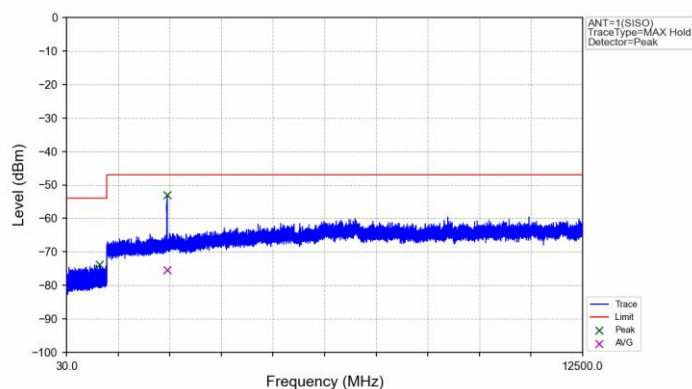
802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant1 (SISO)_NTNV

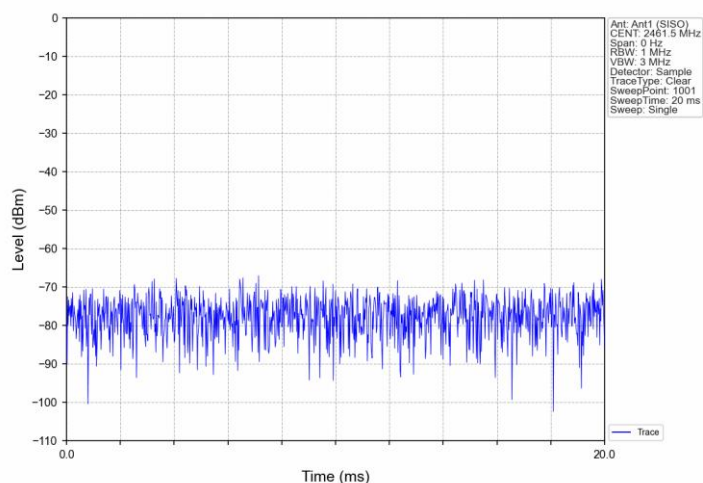


802.11g_2472MHz_Ant1 (SISO)_NTNV

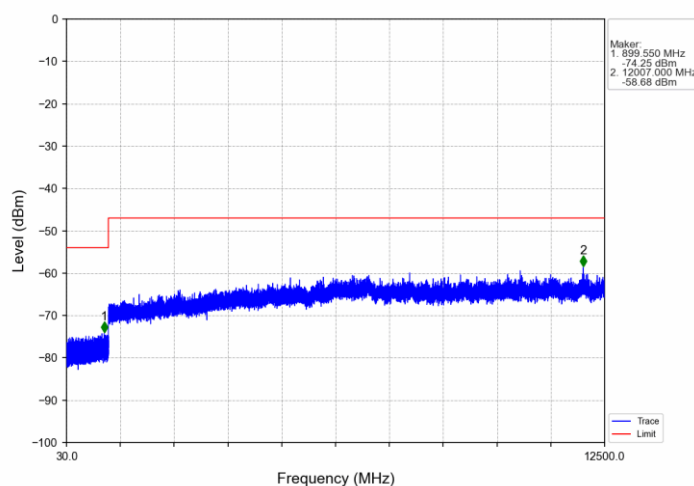


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	827.850	-73.71	/	-54	Pass
1000	12500	1	1	2461.500	-52.98	-75.46	-47	Pass

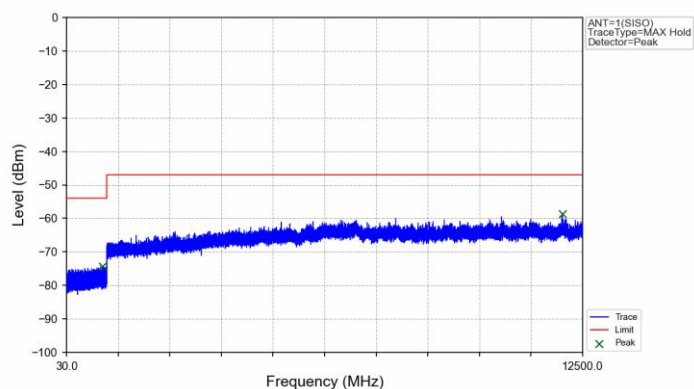
802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

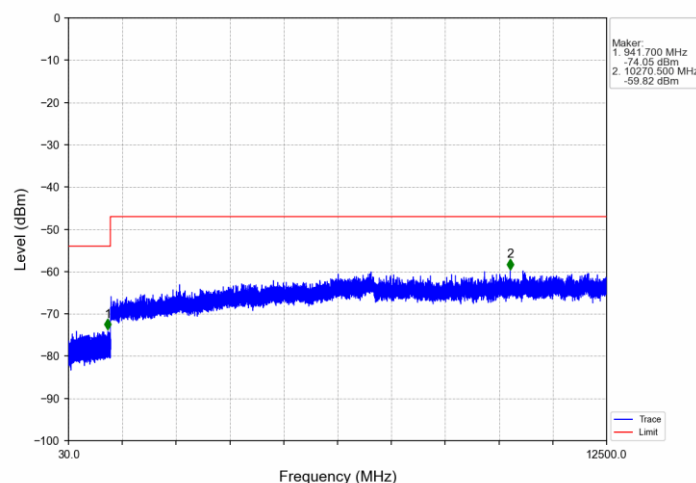


802.11n(HT20)_2412MHz_Ant1 (SISO)_NTNV

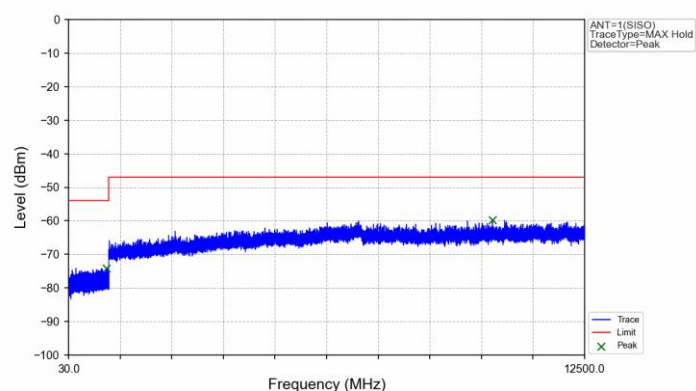


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	899.550	-74.25	/	-54	Pass
1000	12500	1	1	12007.000	-58.68	/	-47	Pass

802.11n(HT20)_2472MHz_Ant1 (SISO)_NTNV



802.11n(HT20) 2472MHz Ant1 (SISO) NTN



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	941.700	-74.05	/	-54	Pass
1000	12500	1	1	10270.500	-59.82	/	-47	Pass

3.6 Interference prevention function

3.6.1 Test condition

Test position:	Transmitting
Ambient temperature:	23.5°C
Relative humidity:	48.6 %
Atmosphere Pressure:	101.3 KPa

3.6.2 Limit

Item	Limits
Identification Code	≥48 bits

3.6.3 Test Procedure

1. Set the EUT in the usual operation condition
2. The radio equipment with automatic transmitting function of identification code
 - A. Transmit the assigned identification code from the radio equipment.
 - B. Confirm the identification code received by the demodulator.
3. The radio equipment with automatic receiving function of identification code
 - A. Transmit the assigned identification code from the opposite equipment.
 - B. Confirm that the usual communication is available.
 - C. Transmit the identification code distinct from the assigned one from the opposite equipment.
 - D. Confirm that the radio equipment is stopped or an indication is displayed as the identification code is different.

The identification function shall be recorded.

3.6.4 Result

Test Conditions	Operation Frequency		
	2402 MHz	2441 MHz	2480 MHz
NTNV	48bits	48bits	48bits
	Identification Code		
	9C:94:A7:89:D2:E2		

The equipment met the requirement of this clause.

3.7 Carrier sense

Note: Not applicable.

Radio interference prevention capability was conformed. This test only for OFDM modulation and occupied bandwidth greater than 26MHz.

4 Photographs of Test Set-ups



THE END