

RF Test Report

For

Applicant name: 株式会社アイウイズロボティクス
Address: 〒140-0014 東京都品川区大井1丁目47番1号NTビル12階
EUT name: 室内業務用掃除ロボット J35PRO
Brand name: N/A
Model number: J35PRO
Series model number: N/A

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF251212R00201
Test standards: Article 2-1, Item 19
MIC Notice No.88 Appendix No. 43
Test conclusion: Pass

Date of sample receipt: 2025-12-12
Test date: 2025-12-12 to 2025-12-17
Date of issue: 2026-01-04

Prepared by:

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Chris Liu / Project
engineer



Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-01-04	This report is based on the report No. BTF251212R00101, Just changed the applicant, manufacturer, factory information, product name and model name, everything else is the same
<i>Note:</i> <i>Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

1.3 Laboratory Facility

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

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	株式会社アイウイズロボティクス
Address:	〒140-0014 東京都品川区大井 1 丁目 47 番 1 号 NT ビル 12 階

2.2 Manufacturer Information

Company name:	株式会社アイウイズロボティクス
Address:	〒140-0014 東京都品川区大井1丁目47番1号NTビル12階

2.3 Factory Information

Company name:	株式会社倉元製作所
Address:	〒029-3207 岩手県一関市花泉町油島字内別当19-1

2.4 General Description of Equipment under Test (EUT)

EUT name:	室内業務用掃除ロボット J35PRO
Under test model name:	J35PRO
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input: DC 24V 10A

2.5 Technical Information

Operation Frequency:	2412-2472MHz
Channel numbers:	13 channels for 20MHz bandwidth; 9 channels for 40MHz bandwidth
Channel separation:	5MHz
Modulation technology:	802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20 and HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Max. Antenna Power:	2.964mW/MHz
Antenna type:	Internal Antenna, MIMO 2*2
Antenna gain:	4.60dBi

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442	12	2467
3	2422	8	2447	13	2472
4	2427	9	2452	/	/
5	2432	10	2457	/	/

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

Article 2-1, Item 19 : 2.4GHz for SRD/BT/WIFI

MIC Notice No.88 Appendix No.43: 2.4GHz band advanced low-power data communication system

3.2 Uncertainty of Test

Measurement	Value
Radio Frequency	$\pm 1.2 \times 10^{-9}$
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Unwanted Emissions, Conducted	$\pm 3 \text{ dB}$

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Spread Factor	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Antenna Power and Tolerance	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Spurious Emission Intensity	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Secondary Radiated Emissions	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Carrier Sensing 1	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Carrier Sensing 2	Article 2-1, Item 19	Article 2-1, Item 19	Pass
Interference Prevention Function	Article 2-1, Item 19	Article 2-1, Item 19	Pass
RF Accessibility	Article 2-1, Item 19	Article 49-20, paragraph 1(a)	Pass

Remark:

1. Pass: Meet the requirements.
2. N/A: not applicable.

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Tolerance of Frequency
Occupied Bandwidth (99%)
Spread Factor
Antenna Power and Tolerance
Spurious Emission Intensity
Secondary Radiated Emissions
Carrier Sensing 1
Carrier Sensing 2

Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Cal. By	Remark
Test Software	TST Pass	/	Version: 2.0	/	/	Guangzhou LiSai Metrology & Test Co., Ltd.	3
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
RF Control Unit	Techy	TR1029-1	/	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
RF Sensor Unit	Techy	TR1029-2	/	2025-10-17	2026-10-16	Guangzhou LiSai Metrology & Test Co., Ltd.	3
RF shielding box	Yinuo Xin Electronics	50*50*50 cm	/	2025-05-26	2026-05-25	Guangzhou LiSai Metrology & Test Co., Ltd.	3

Remark:

1. 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.
2. Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act. No.51 of 1992)
3. 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).
4. 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 (2) to (4).

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

All calibration information is from Guangzhou LiSai Metrology & Test Co., Ltd.

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Environment Condition

ENV	Temperature (°C)	Voltage (VDC)
NTNV	25	24.0
NTHV	25	26.4
NTLV	25	21.6

4.4 Test Modes

No.	Test Modes
TM1	802.11b TX mode
TM2	802.11g TX mode
TM3	802.11n20 TX mode
TM4	802.11n40 TX mode
TM5	RX mode

4.5 Test Channel of EUT

Operation Band: 1

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
20	2412	2442	2472
40	2422	2442	2462

5 Evaluation Results (Evaluation)

5.1 Interference Prevention Function

Test Requirement:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Test Method:	Notification No.88 of MIC, 2004
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different
Operating Environment:	
Temperature:	26 °C
Humidity:	47.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 100V 50Hz

5.1.1 Conclusion

The detected ID of the device is below: 02:25:5A:B3:56:76 Test result: The device meet the requirements PASS
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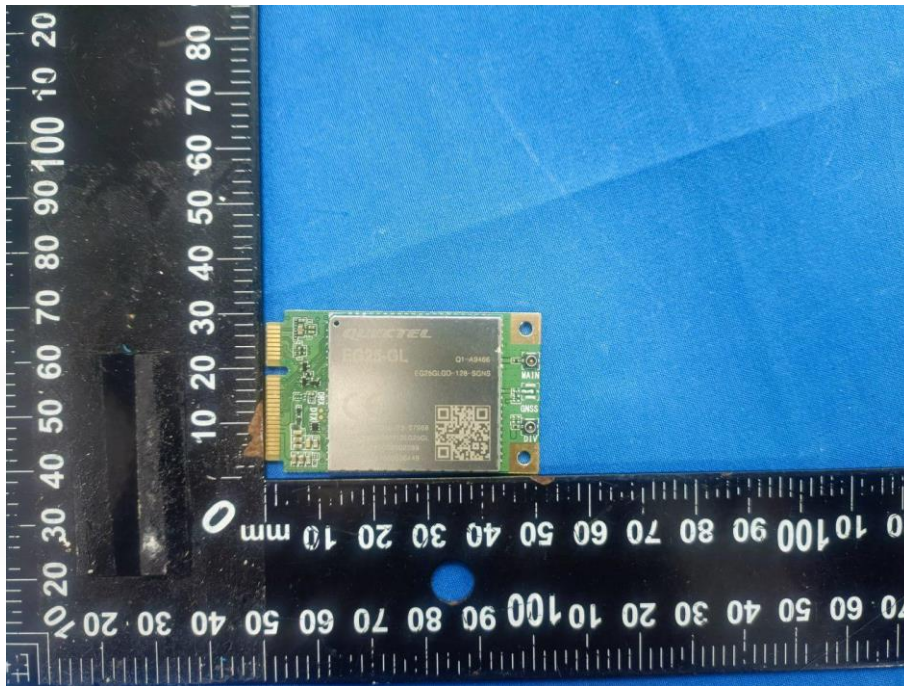
5.2 RF Accessibility

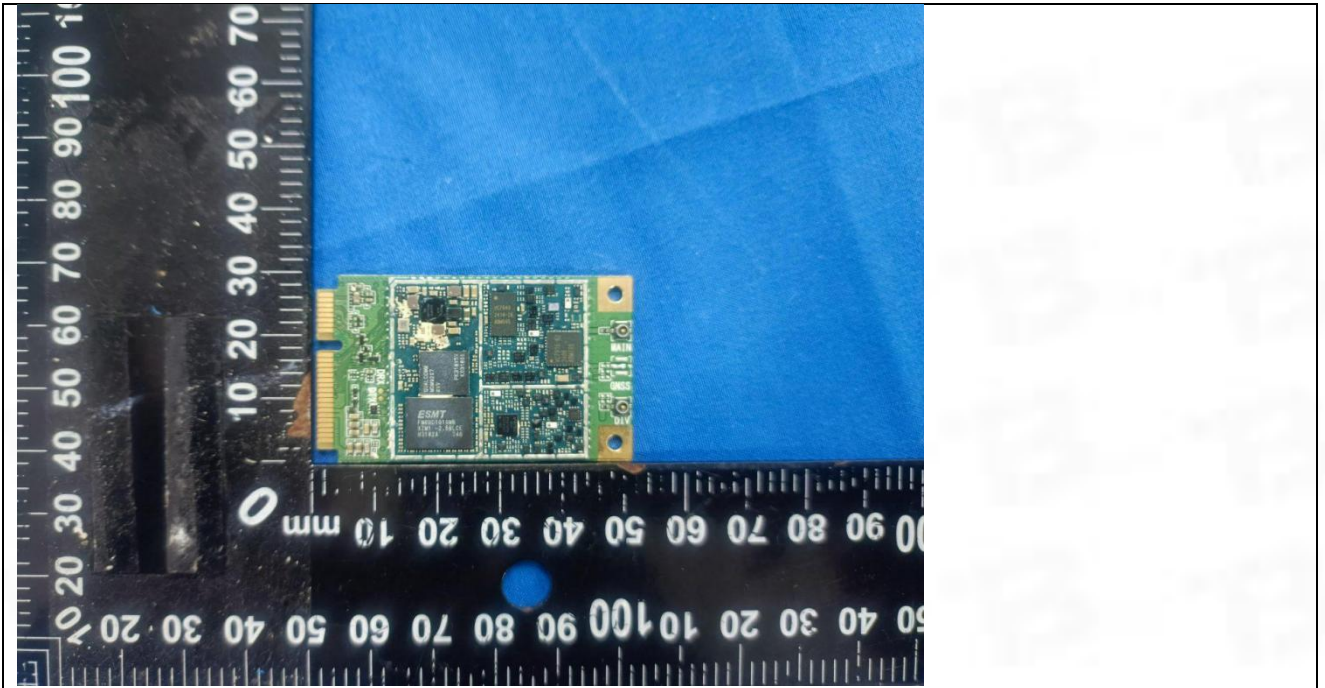
Test Requirement:	The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.
Operating Environment:	
Temperature:	23.1 °C
Humidity:	47.4 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 100V 50Hz

5.2.1 Conclusion

Tamper proof declaration:

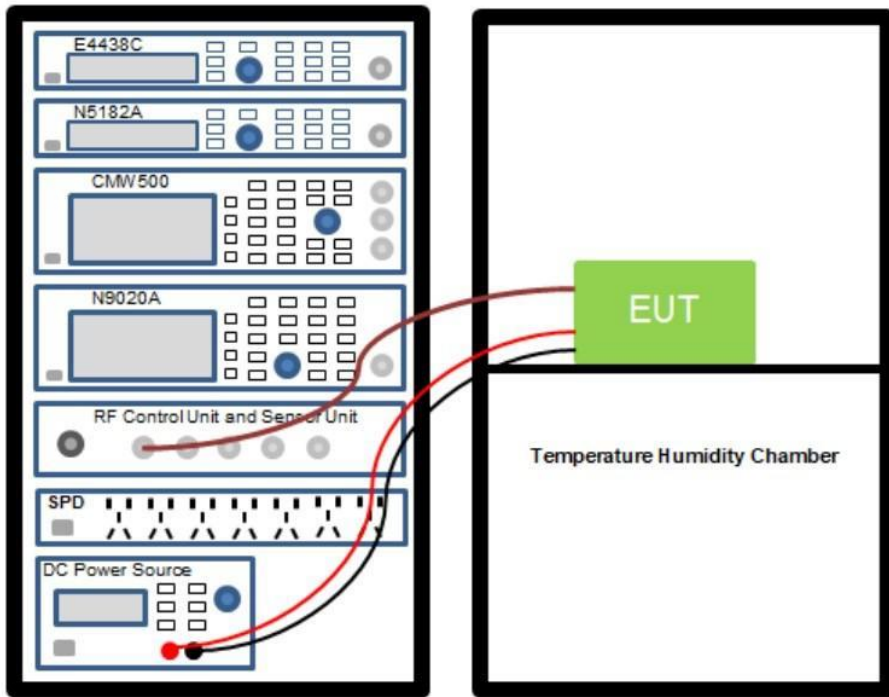
- ☐ RF and modulation components are covered with shielding case and this shielding case is soldered.





6 Radio Spectrum Matter Test Results (RF)

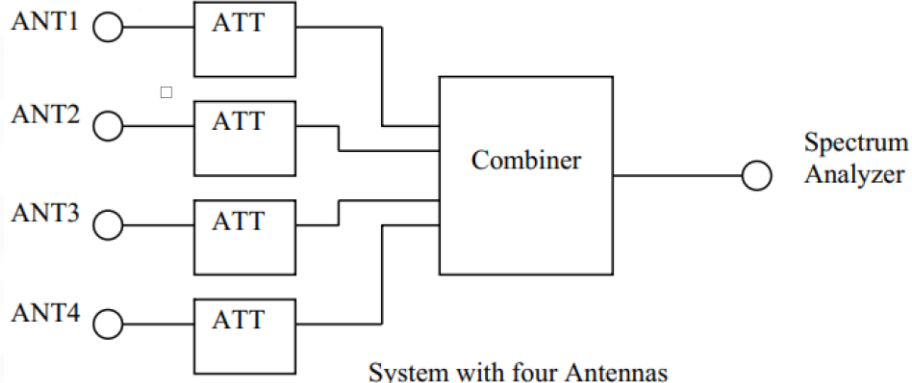
6.1 Tolerance of Frequency

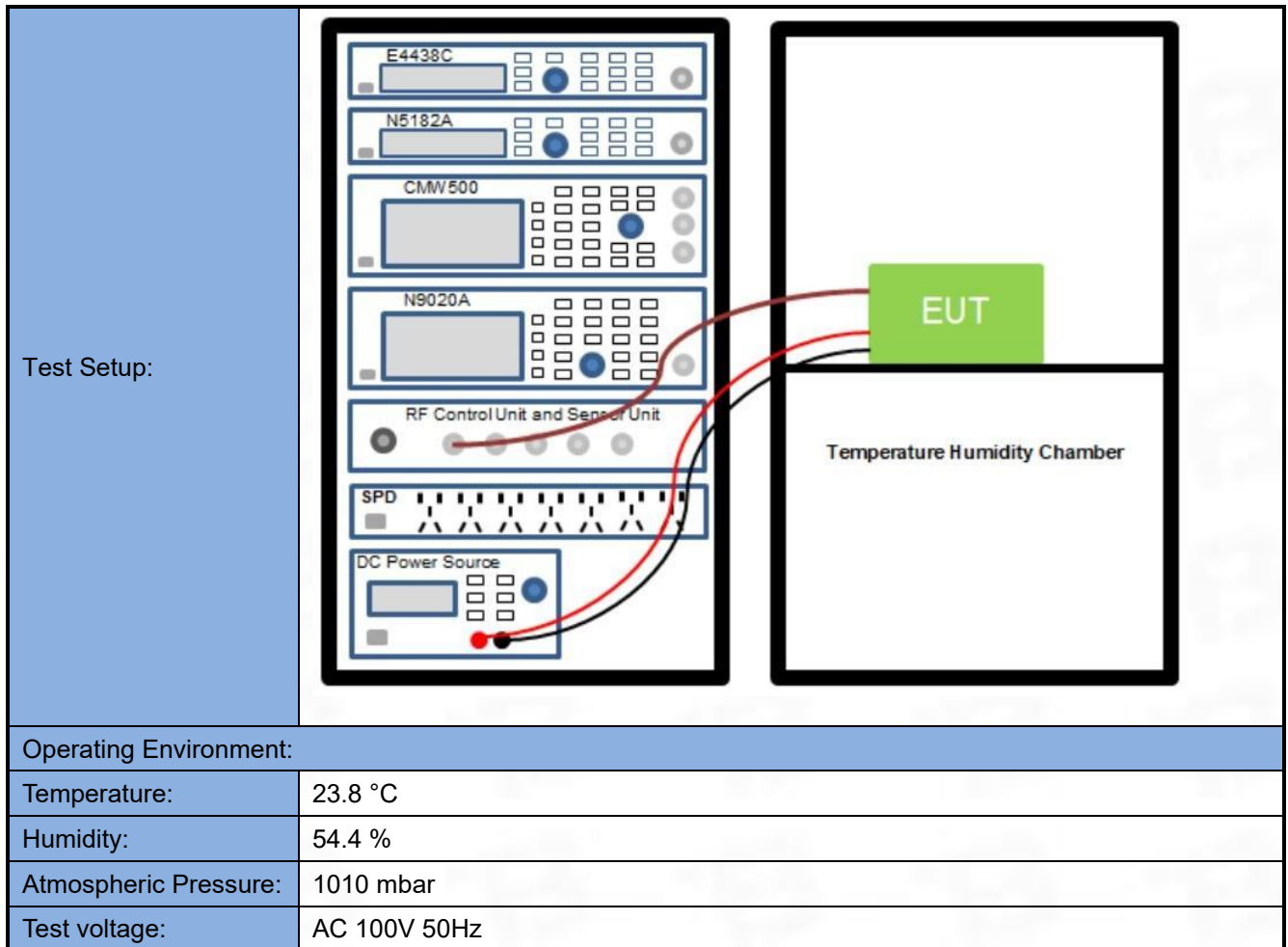
Test Requirement:	Article 2-1, Item 19		
Test Method:	Notification No.88 of MIC, 2004		
Test Limit:	±50ppm or less.		
Procedure:	Center frequency:	Test frequency	
	Span:	2 times channel bandwidth	
	RBW:	100 kHz (Modulation ON)	
	VBW:	100 kHz (Modulation ON)	
	Sweep data points:	1001 or greater	
	Sweep time:	Auto	
	Detector mode:	Positive peak	
	Indication mode:	Max hold	
	If the EUT cannot transmit in un-modulated mode then modulated mode measurements can be made, as follows:		
	If the spectrum observed using the spectrum analyzer has a characteristic dip at the center, then the center frequency of the dip shall be regarded as the center frequency of the carrier.		
Test Setup:			
Operating Environment:			
Temperature:	24.9 °C		
Humidity:	53.5 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	AC 100V 50Hz		

6.1.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.2 Occupied Bandwidth (99%)

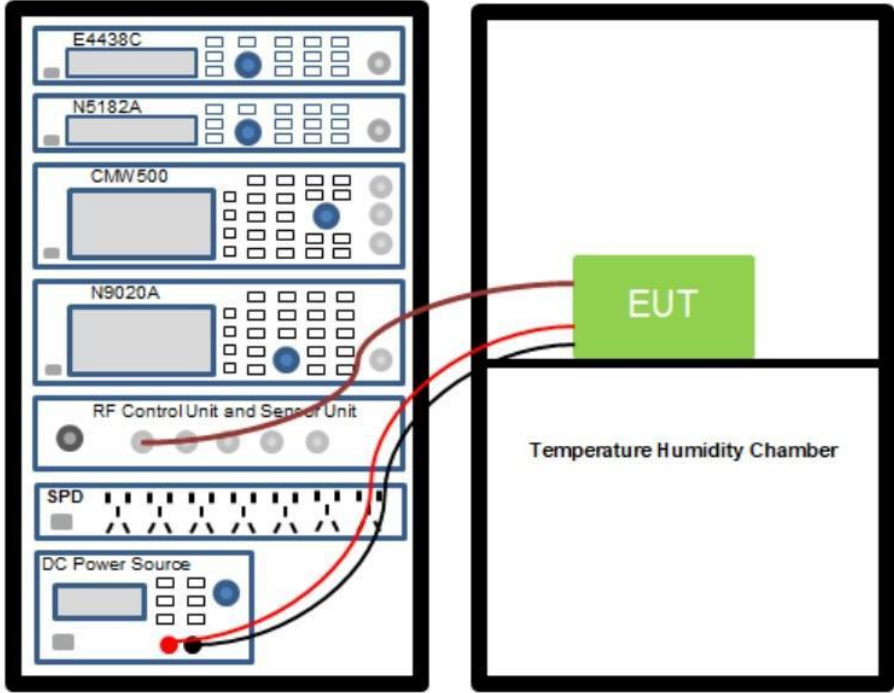
Test Requirement:	Article 2-1, Item 19																		
Test Method:	Notification No.88 of MIC, 2004																		
Test Limit:	For OFDM Modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 40 MHz or less For DSSS or other modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 26 MHz or less																		
Procedure:	<table border="1"> <tr> <td>Center Frequency:</td><td>Test frequency</td></tr> <tr> <td>Span:</td><td>2 - 3.5 times the technical standard</td></tr> <tr> <td>RBW:</td><td>Within 3% of the technical standard</td></tr> <tr> <td>VBW:</td><td>Same as RBW</td></tr> <tr> <td>Sweep time:</td><td>Auto</td></tr> <tr> <td>Sweep data points:</td><td>1001 or greater</td></tr> <tr> <td>Detector mode:</td><td>Positive peak</td></tr> <tr> <td>Indication mode:</td><td>Max hold</td></tr> <tr> <td>BW setting:</td><td>99%</td></tr> </table> (1) Measure the signal bandwidth using a spectrum analyzer (2) For multiple antenna systems: a) Each antenna shall be individually measured b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:  System with four Antennas	Center Frequency:	Test frequency	Span:	2 - 3.5 times the technical standard	RBW:	Within 3% of the technical standard	VBW:	Same as RBW	Sweep time:	Auto	Sweep data points:	1001 or greater	Detector mode:	Positive peak	Indication mode:	Max hold	BW setting:	99%
Center Frequency:	Test frequency																		
Span:	2 - 3.5 times the technical standard																		
RBW:	Within 3% of the technical standard																		
VBW:	Same as RBW																		
Sweep time:	Auto																		
Sweep data points:	1001 or greater																		
Detector mode:	Positive peak																		
Indication mode:	Max hold																		
BW setting:	99%																		



6.2.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.3 Spread Factor

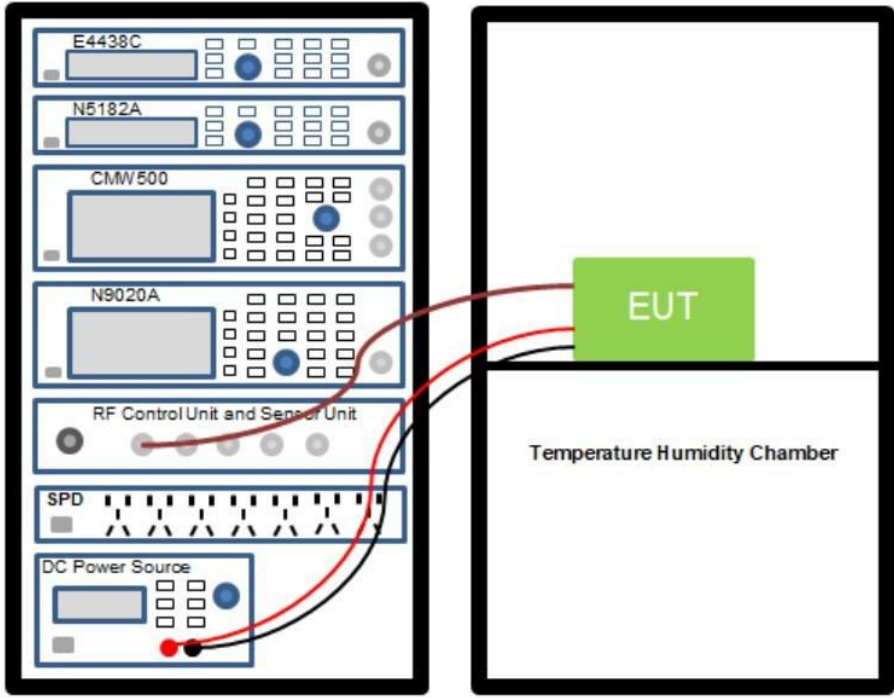
Test Requirement:	Article 2-1, Item 19
Test Method:	The test method is the same as spread bandwidth.
Test Limit:	The spread factor should be more than 5.
Procedure:	The test procedure is the same as spread bandwidth.
Test Setup:	
Operating Environment:	
Temperature:	25.8 °C
Humidity:	54 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 100V 50Hz

6.3.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.4 Antenna Power and Tolerance

Test Requirement:	Article 2-1, Item 19																																																									
Test Method:	Notification No.88 of MIC, 2004																																																									
Test Limit:	Antenna Power: 26MHz<OBW≤40MHz: 5 mW/MHz or less Tolerance: +20% or less EIRP: 19.13dBm/MHz Antenna Power: OBW≤26MHz: 10mW/MHz or less Tolerance: +20% or less EIRP: 22.14dBm/MHz																																																									
Procedure:	<table><tr><td colspan="2">[Setting 1] – Search for peak power frequency</td></tr><tr><td>Center Frequency:</td><td>Test frequency</td></tr><tr><td>Span:</td><td>Approximately twice the occupied bandwidth</td></tr><tr><td>RBW:</td><td>1MHz</td></tr><tr><td>VBW:</td><td>Approximately three times the RBW</td></tr><tr><td>Sweep time:</td><td>Auto</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td>Detector mode:</td><td>Positive peak</td></tr><tr><td>Indication mode:</td><td>Max hold</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM</td></tr><tr><td>Frequency:</td><td>Frequency of peak power found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>3 MHz (FHSS-Channel Spacing ≤ 1MHz) 1MHz (DSSS, OFDM, FHSS-Channel Spacing > 1MHz)</td></tr><tr><td>Detector mode:</td><td>Sample</td></tr><tr><td>Sweep:</td><td>Minimum time required to make an accurate measurement.</td></tr><tr><td> </td><td>For burst type (intermittent) transmission sweep time shall be greater than one burst interval</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr><tr><td colspan="2"> </td></tr><tr><td colspan="2">[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM</td></tr><tr><td>Frequency:</td><td>Frequency of peak power found using [Setting 1]</td></tr><tr><td>Span:</td><td>0 Hz</td></tr><tr><td>RBW:</td><td>Bandwidth sufficient to cover that occupied by the carrier</td></tr><tr><td>VBW:</td><td>Bandwidth sufficient to cover that occupied by the carrier</td></tr><tr><td>Detector mode:</td><td>Sample</td></tr><tr><td>Sweep:</td><td>Minimum time required to make an accurate measurement.</td></tr><tr><td> </td><td>For burst type (intermittent) transmission sweep time shall be greater than one burst interval</td></tr><tr><td>Sweep data points:</td><td>1001 or greater</td></tr></table> (1) After configuring the spectrum analyzer to [Setting 1], find the frequency of maximum transmitted power		[Setting 1] – Search for peak power frequency		Center Frequency:	Test frequency	Span:	Approximately twice the occupied bandwidth	RBW:	1MHz	VBW:	Approximately three times the RBW	Sweep time:	Auto	Sweep data points:	1001 or greater	Detector mode:	Positive peak	Indication mode:	Max hold			[Setting 2] – Measurement of average antenna power for FHSS, DSSS, OFDM		Frequency:	Frequency of peak power found using [Setting 1]	Span:	0 Hz	RBW:	3 MHz (FHSS-Channel Spacing ≤ 1MHz) 1MHz (DSSS, OFDM, FHSS-Channel Spacing > 1MHz)	Detector mode:	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			[Setting 3] – Measurement of average antenna power other than for FHSS, DSSS, OFDM		Frequency:	Frequency of peak power found using [Setting 1]	Span:	0 Hz	RBW:	Bandwidth sufficient to cover that occupied by the carrier	VBW:	Bandwidth sufficient to cover that occupied by the carrier	Detector mode:	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
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Frequency:	Frequency of peak power found using [Setting 1]																																																									
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Sweep data points:	1001 or greater																																																									

	(2) After configuring the spectrum analyzer to [Setting 2], measure the Average Burst Power of the frequency found in (1) Antenna Power (W/MHz) = Average Burst Power
Test Setup:	
Operating Environment:	
Temperature:	23.3 °C
Humidity:	52.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	AC 100V 50Hz

6.4.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.5 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19	
Test Method:	Notification No.88 of MIC, 2004	
Test Limit:	(1) Below 2387 MHz: 2.5 μ W (-26 dBm)/MHz or less (2) 2387 to 2400 MHz: 25.0 μ W (-16 dBm)/MHz or less (3) 2483.5 to 2496.5 MHz: 25.0 μ W (-16 dBm)/MHz or less (4) Over 2496.5 MHz: 2.5 μ W (-26 dBm)/MHz or less	
Procedure:	[Setting 1]	
	Frequency range:	(see Note 1)
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement
	Sweep Data Points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold (see Note 2)
	Note 1:	Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases: -FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz -Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz
	Note 2:	Sweep shall be repeated until the max hold waveform is stable.
	[Setting 2]	
	Center frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	1 MHz
	VBW:	1 MHz
	Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval
	Sweep Data Points:	1001 or greater
	Detector mode:	Sample
	[Setting 3]	
	Frequency range:	2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz
	RBW:	30 kHz
	VBW:	30 kHz
	Sweep time:	Minimum time required to make an accurate measurement.
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to	

be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)

(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.

If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.

If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.

If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)

(3) In the following cases, measure the spurious emissions using [Setting 3]

- Case1: FHSS, FHSS+DSSS, FHSS+OFDM
- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit

(4) Calculate the spurious emission value (Calculated Value) using following the formula below:

Calculated Value = (Measured Value using (3) + 15.2dB)

Note: 15.2dB adjustment is derived from the Conversion Factor of RBW

Conversion Factor of RBW = $10 \times \log(\text{Reference Bandwidth} / \text{RBW of measurement}) = 15.2 \text{ [dB]}$ Where: Reference Bandwidth = 1 MHz

RBW of measurement = 30 kHz

(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)

(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:

Frequency: Frequency of spurious emission

Span: 1 MHz

(7) After sweep, send the span data set to the PC

(8) Convert measured data from dBm to Watts

(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = \left(\sum_{i=1}^n E_i \right) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)

Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)

n: Number of measurement points in the Span

k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide

RBW: Resolution Bandwidth (MHz).

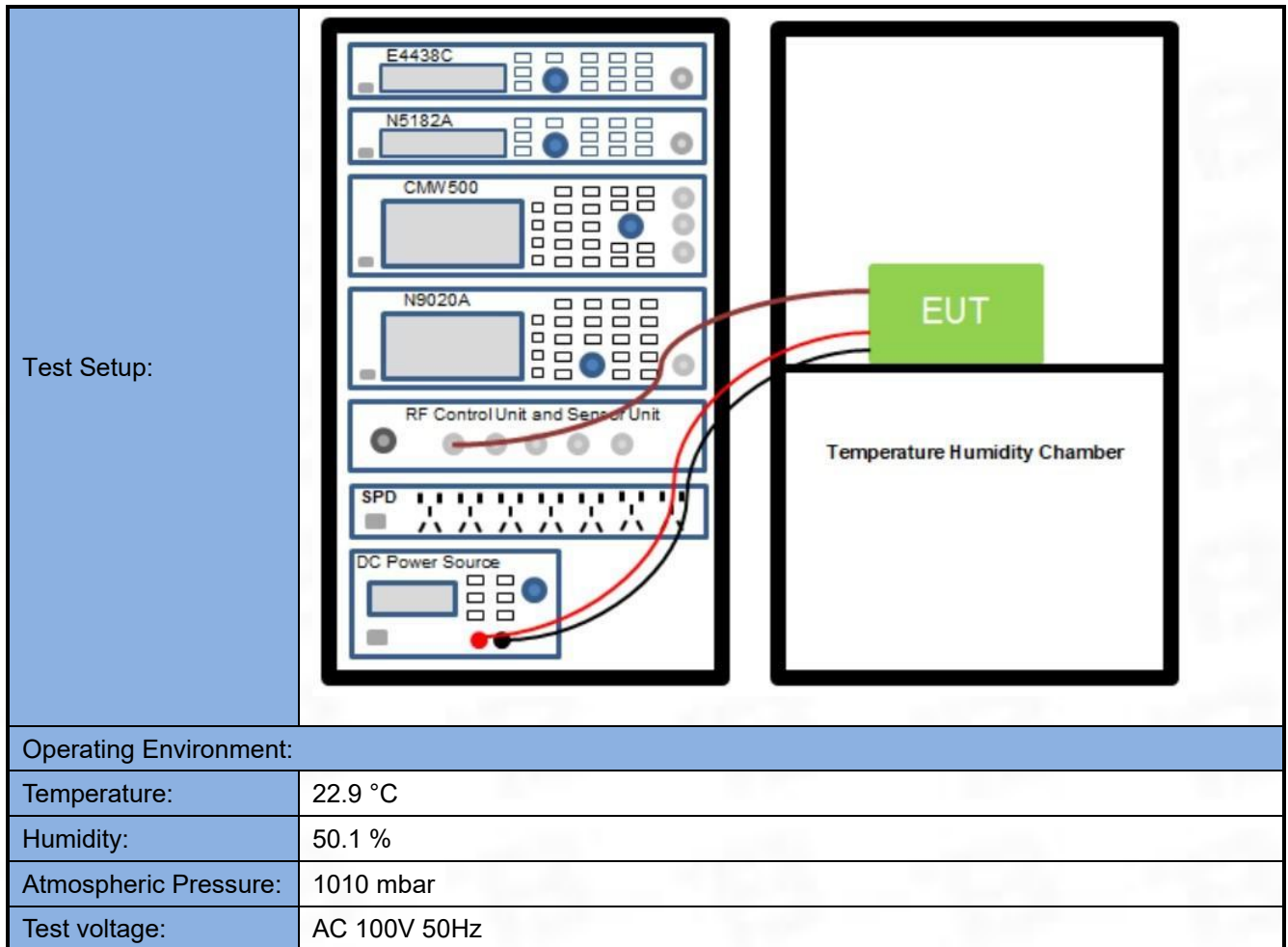
(10) If the EUT has multiple antennas, measure the spurious emission form each individual antenna using steps (1) through (9)

(11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values

(12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)

(13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard)

(14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined

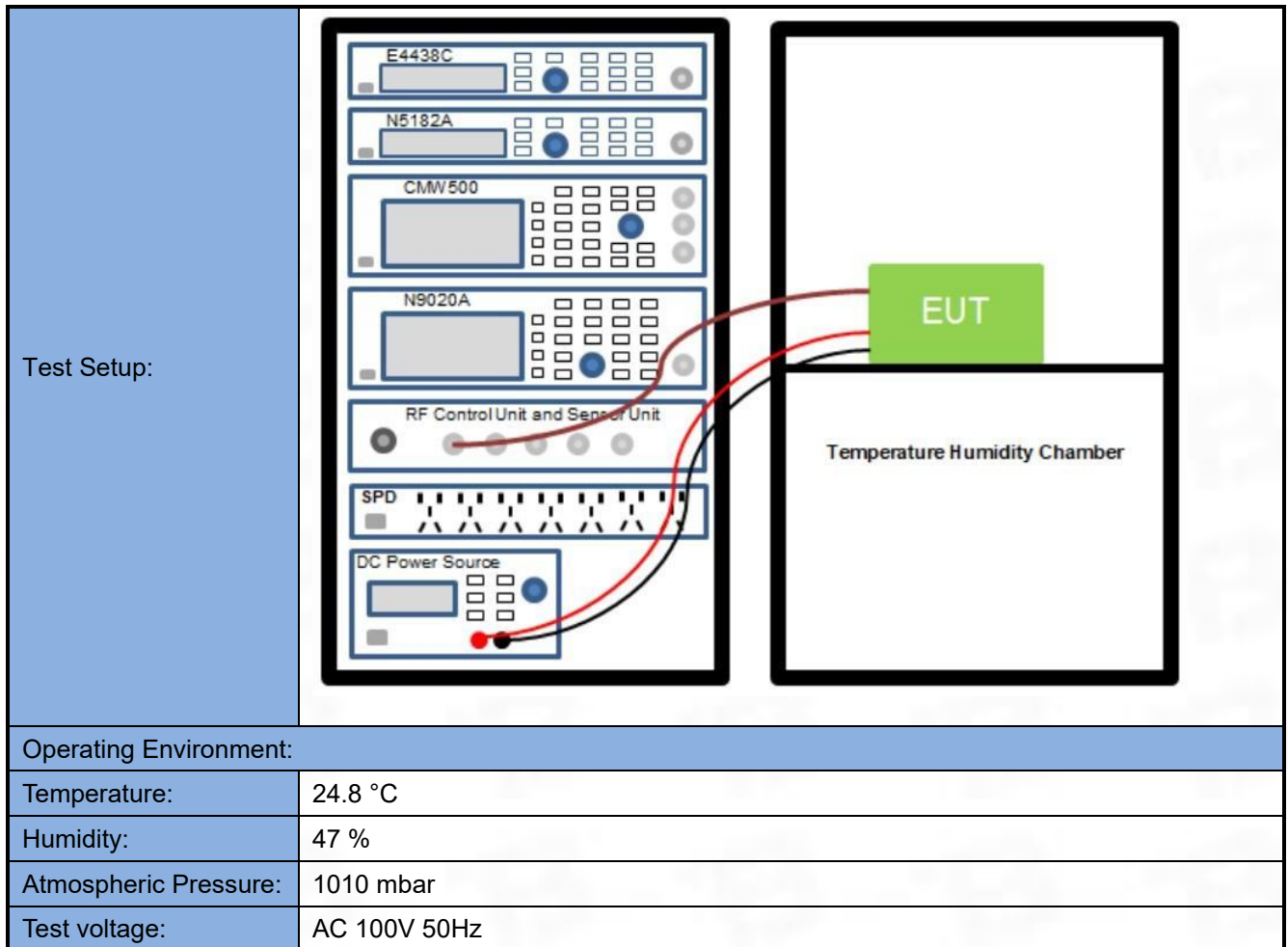


6.5.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.6 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19	
Test Method:	Notification No.88 of MIC, 2004	
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less	
Procedure:	[Setting 1]	
	Frequency range:	30 MHz ~ 12.5 GHz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Positive peak
	Indication mode:	Max hold
	[Setting 2]	
	Center Frequency:	Frequency of spurious emission found using [Setting 1]
	Span:	0 Hz
	RBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	VBW:	Below 1 GHz:100 kHz
		Above 1 GHz:1 MHz
	Sweep time:	Auto
	Sweep data points:	1001 or greater
	Detector mode:	Sample
	(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points].	
	(2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)	
	(3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.	
	If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems	
	If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below	
	(4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value	
	(5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)	
	(6) Ensure that the composite spectrum does not exceed the Limit	

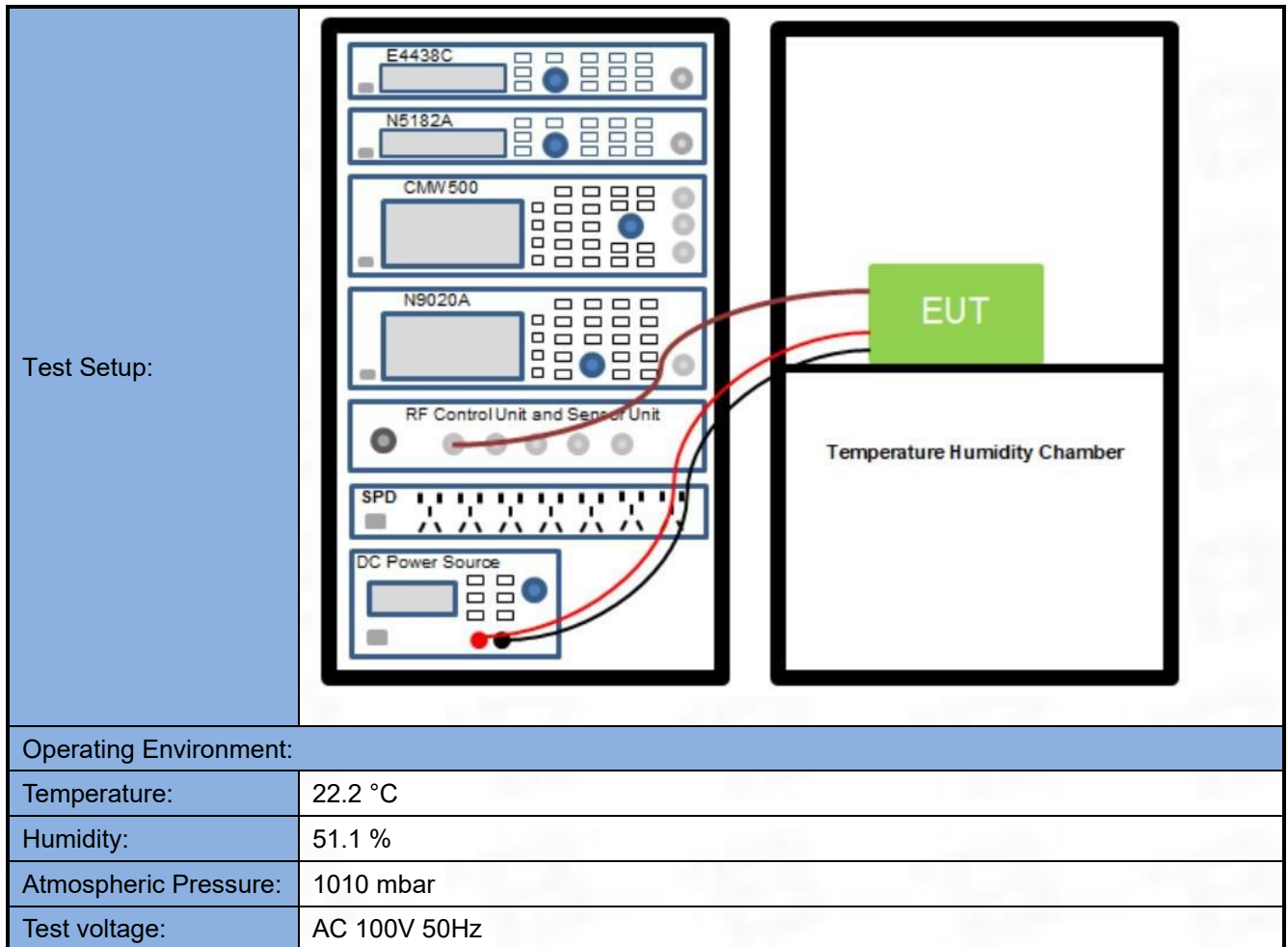


6.6.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.7 Carrier Sensing 1

Test Requirement:	Article 2-1, Item 19	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	Signal Generator Settings	
	[Setting 1]	
	Output frequency:	Center of test frequency
	Modulation:	Un-modulated, see note
	Output level:	The required level at the EUT antenna input, as defined by the applicant
	Note:	
	If the EUT's carrier sensing cannot function with an un-modulated signal at the center of the test frequency, then the un-modulated signal can be moved away from the center.	
	Spectrum Analyzer Settings	
	[Setting 2]	
	Frequency:	Center of test frequency
	Span:	50 MHz
	RBW:	1 MHz
	VBW:	1 MHz
	Trigger:	Free running
	Detector:	Positive peak
	Testing without a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) With the signal generator OFF, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(3) Set the EUT to receive mode	
	(4) First, set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	Testing with a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) Set the signal generator output to OFF	
	(3) After establishing a connection between the EUT and the Link Partner, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(4) Set the EUT to receive mode	
	(5) Set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	

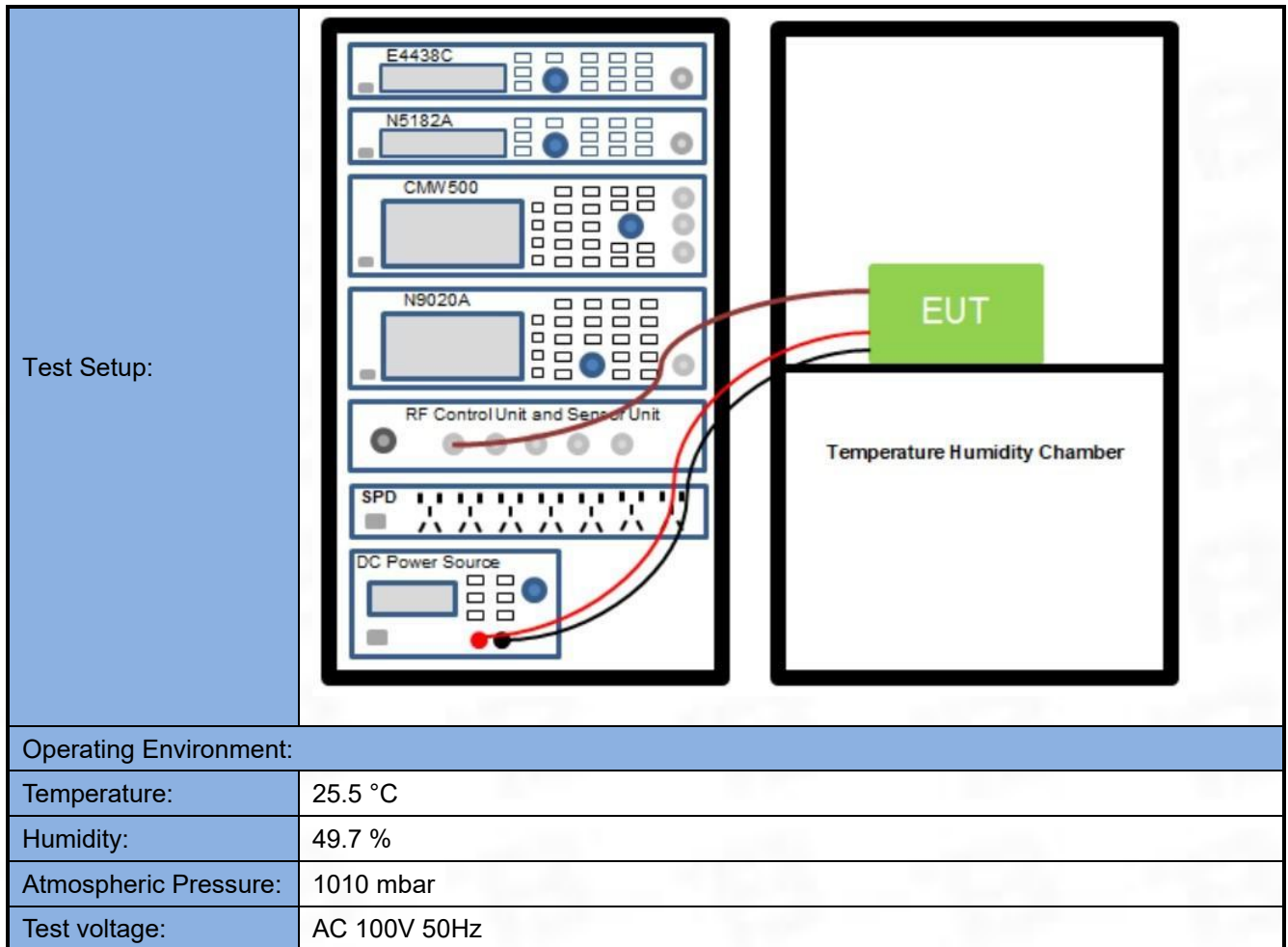


6.7.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

6.8 Carrier Sensing 2

Test Requirement:	Article 2-1, Item 19	
Test Method:	Notification No.88 of MIC, 2004	
Procedure:	Signal Generator Settings	
	[Setting 1]	
	Output frequency:	Center of test frequency
	Modulation:	Un-modulated, see note
	Output level:	The required level at the EUT antenna input, as defined by the applicant
	Note:	
	If the EUT's carrier sensing cannot function with an un-modulated signal at the center of the test frequency, then the un-modulated signal can be moved away from the center.	
	Spectrum Analyzer Settings	
	[Setting 2]	
	Frequency:	Center of test frequency
	Span:	50 MHz
	RBW:	1 MHz
	VBW:	1 MHz
	Trigger:	Free running
	Detector:	Positive peak
	Testing without a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) With the signal generator OFF, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(3) Set the EUT to receive mode	
	(4) First, set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	Testing with a Link Partner	
	(1) Set the spectrum analyzer to [Setting 2]	
	(2) Set the signal generator output to OFF	
	(3) After establishing a connection between the EUT and the Link Partner, set the EUT to transmit mode and confirm that the transmission meets the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	
	(4) Set the EUT to receive mode	
	(5) Set the signal generator output ON, then set the EUT to transmit mode and confirm that the EUT does NOT transmit a signal with the following characteristics:	
	a.Modulation:OFDM	
	b.Occupied bandwidth:over 26 MHz	



6.8.1 Test Data

Please Refer to Appendix - 2.4G WIFI for Details.

7 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

8 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.

Appendix

1. Duty Cycle

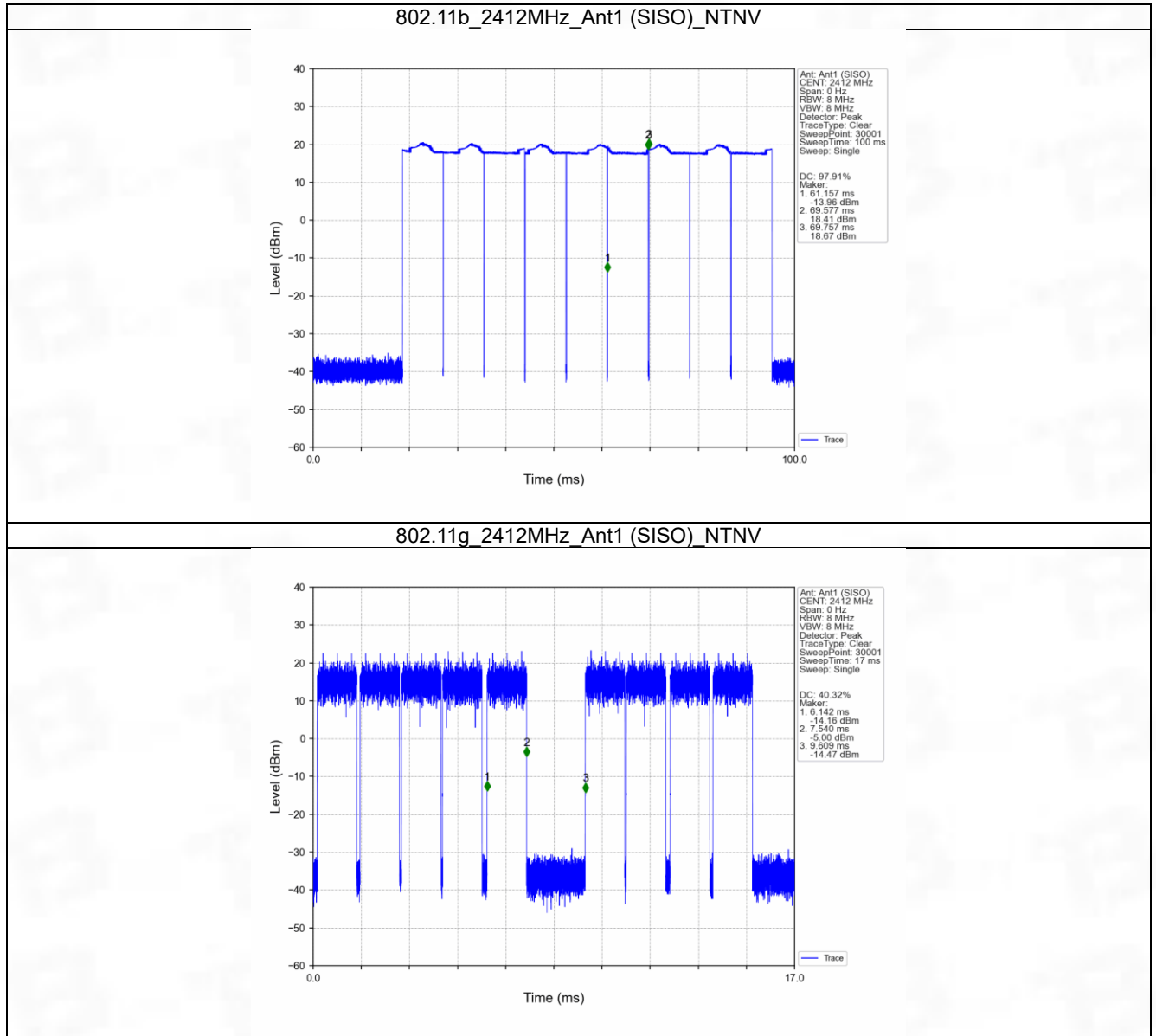
1.1 Test Result

1.1.1 Ant1

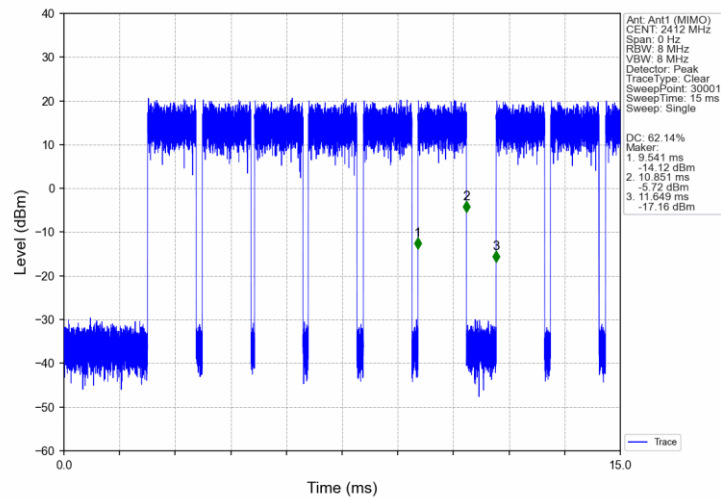
Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11b	SISO	2412	8.420	8.600	97.91	0.09	1.50
	802.11g	SISO	2412	1.398	3.467	40.32	3.94	56.26
	802.11n (HT20)	MIMO	2412	1.310	2.108	62.14	2.07	31.07
	802.11n (HT40)	MIMO	2422	0.650	1.429	45.49	3.42	46.23

1.2 Test Graph

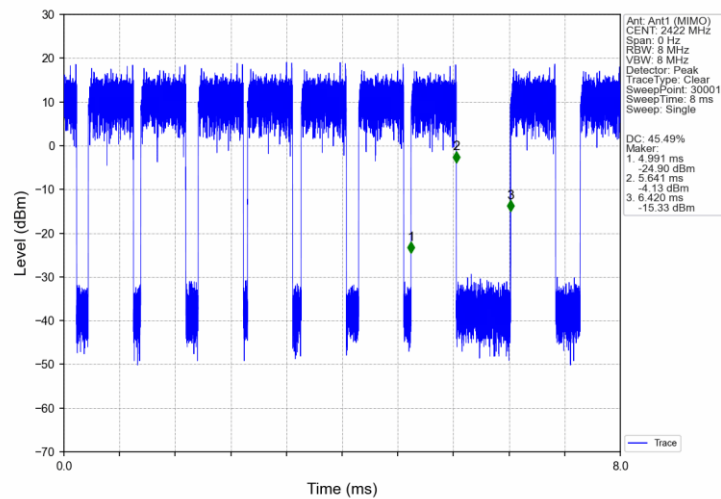
1.2.1 Ant1



802.11n(HT20) 2412MHz_Ant1 (MIMO)_NTNV



802.11n(HT40) 2422MHz_Ant1 (MIMO)_NTNV



2. Frequency Error

2.1 Test Result

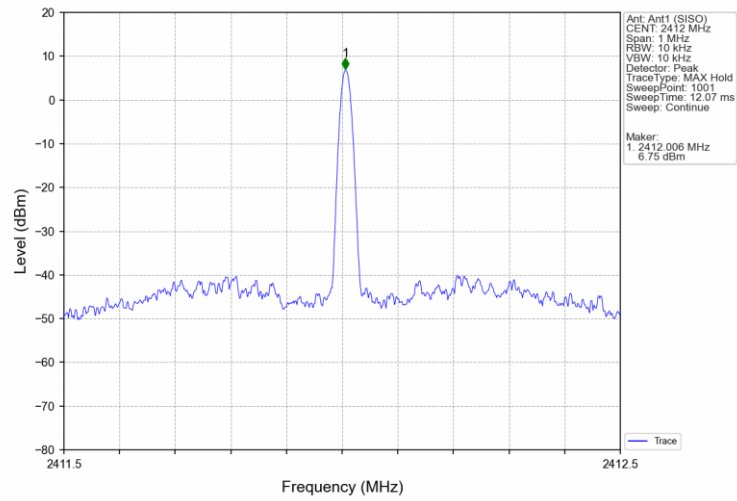
2.1.1 Ant1

Ant1							
ENV	Mode	TX Type	Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)		Verdict
					Result	Limit	
NTNV	Carrier Wave	SISO	2412	2412.006	2.49	-50 to 50	Pass
			2472	2472.007	2.83	-50 to 50	Pass
		MIMO	2422	2422.006	2.48	-50 to 50	Pass
			2462	2462.007	2.84	-50 to 50	Pass

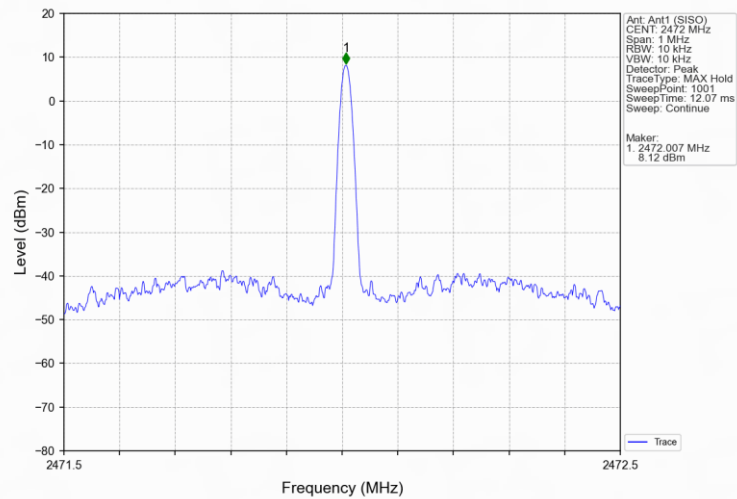
2.2 Test Graph

2.2.1 Ant1

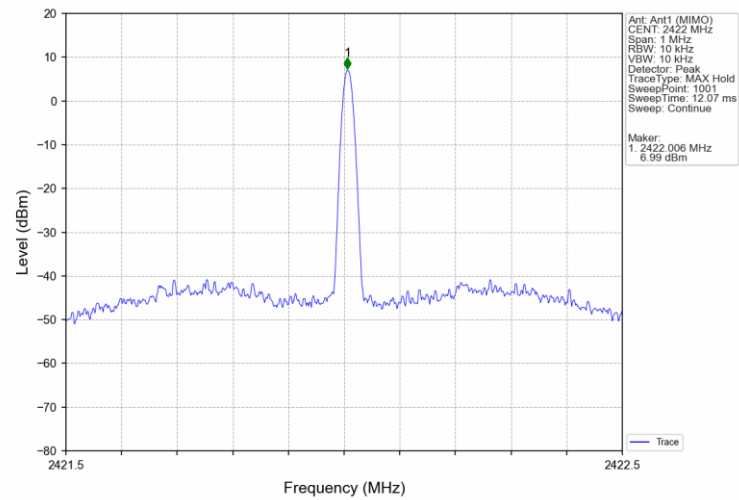
Frequency Error_NTNV_Carrier Wave_2412MHz_Ant1 (SISO)_NTNV



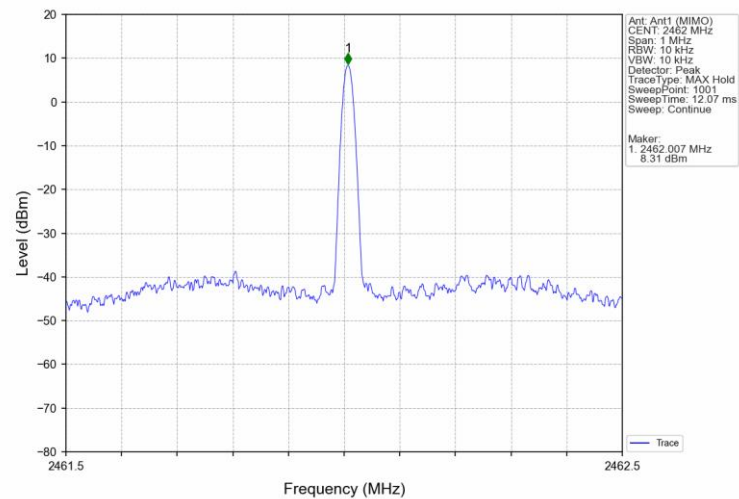
Frequency Error_NTNV_Carrier Wave_2472MHz_Ant1 (SISO)_NTNV



Frequency Error_NTNV_Carrier Wave_2422MHz_Ant1 (MIMO)_NTNV



Frequency Error_NTNV_Carrier Wave_2462MHz_Ant1 (MIMO)_NTNV



3. Occupied Bandwidth

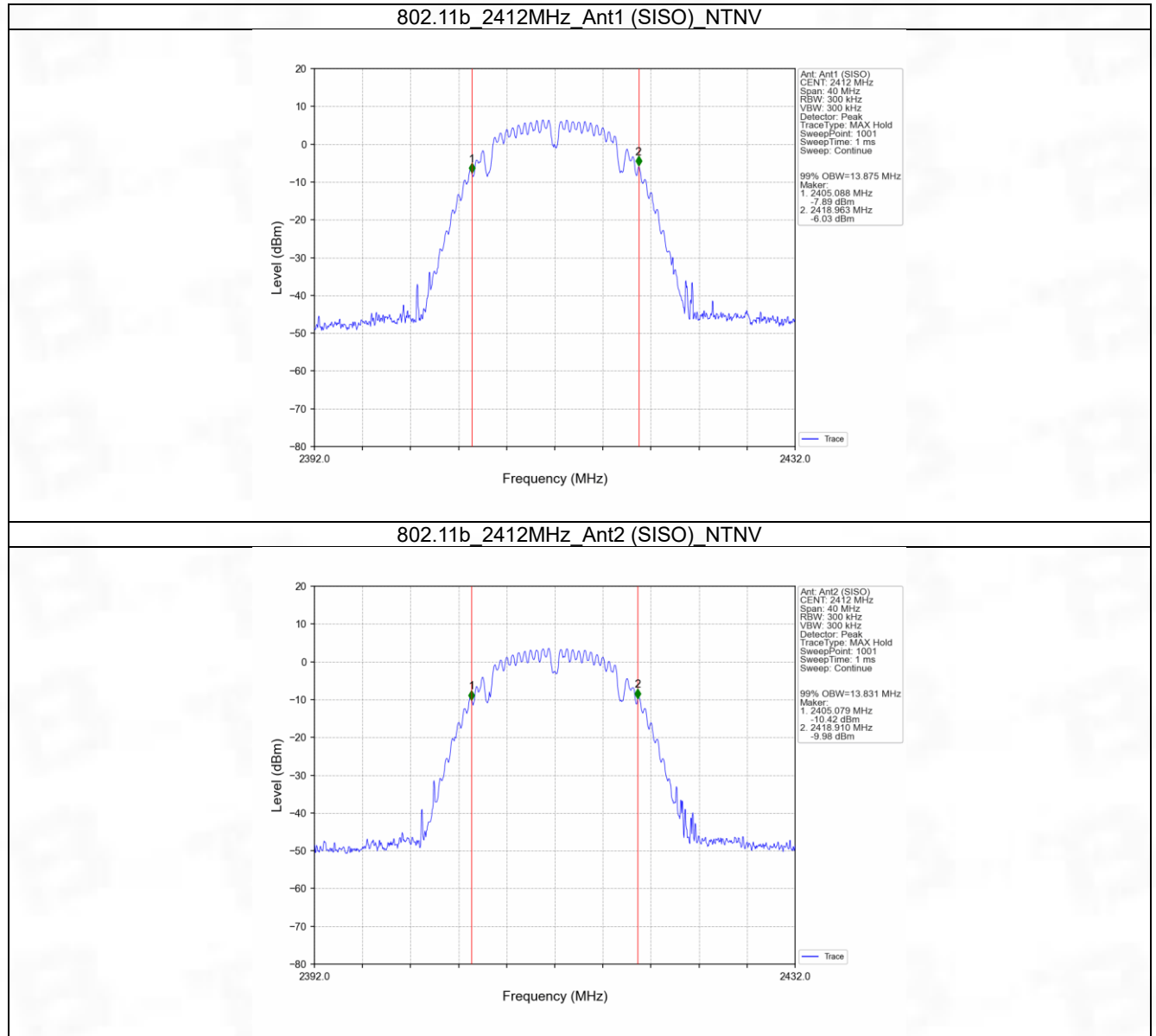
3.1 Test Result

3.1.1 OBW

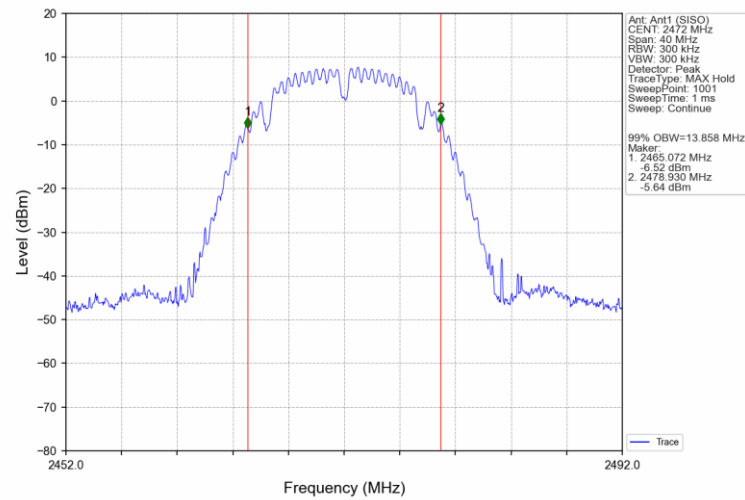
ENV	Mode	TX Type	Frequency (MHz)	99% Occupied Bandwidth (MHz)			Verdict
				ANT1	ANT2	Limit	
NTNV	802.11b	SISO	2412	13.875	13.831	<=26	Pass
			2472	13.858	13.823	<=26	Pass
	802.11g	SISO	2412	16.701	16.645	<=26	Pass
			2472	16.682	16.667	<=26	Pass
	802.11n (HT20)	MIMO	2412	17.738	17.686	<=26	Pass
			2472	17.709	17.677	<=26	Pass
	802.11n (HT40)	MIMO	2422	35.659	35.730	26 to 40	Pass
			2462	35.649	35.623	26 to 40	Pass

3.2 Test Graph

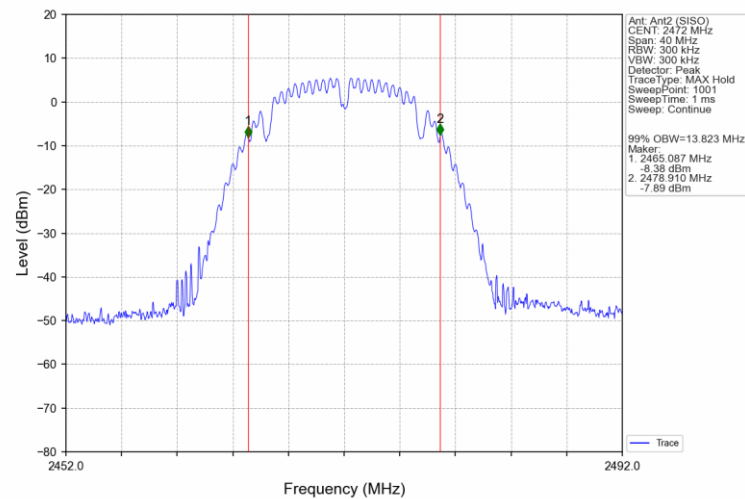
3.2.1 OBW



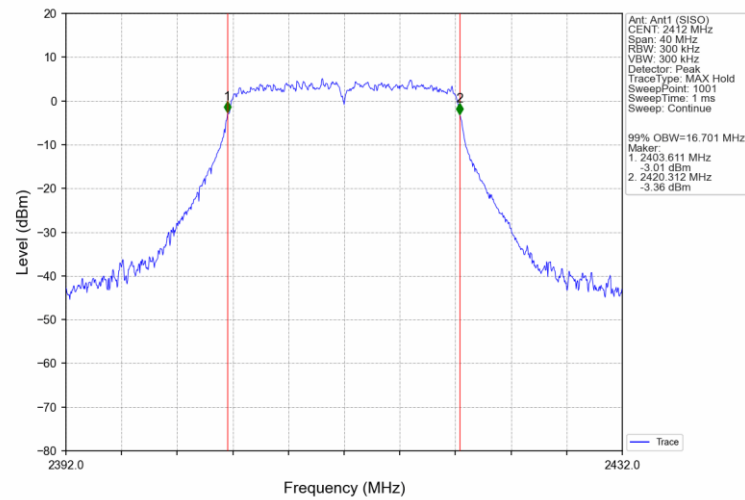
802.11b_2472MHz_Ant1 (SISO)_NTNV



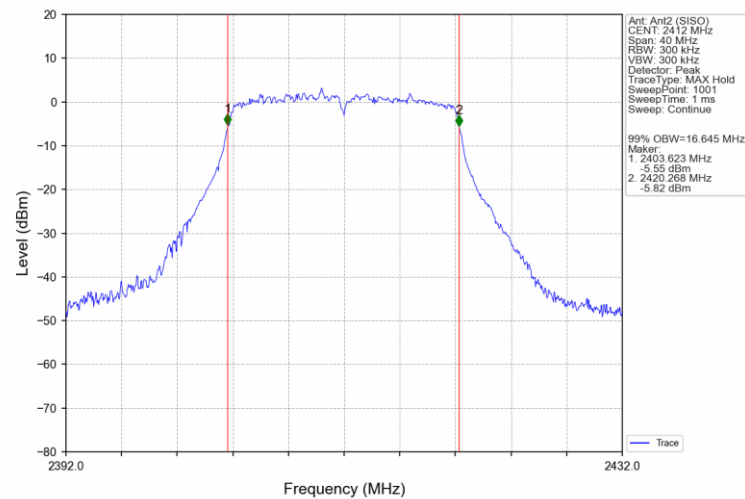
802.11b_2472MHz_Ant2 (SISO)_NTNV



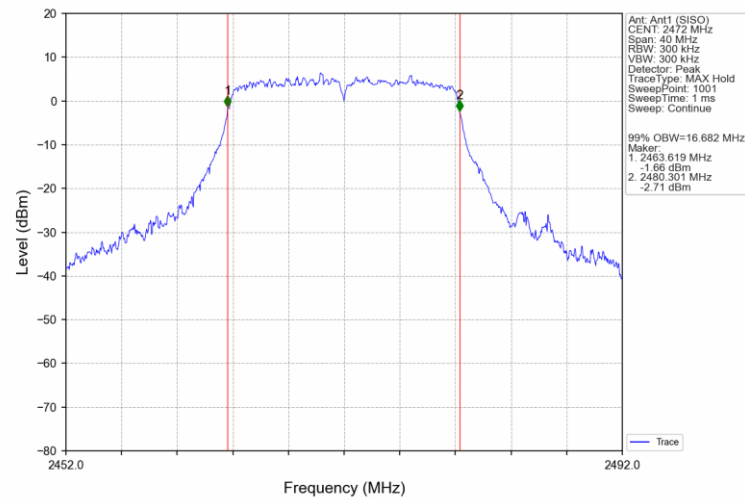
802.11g_2412MHz_Ant1 (SISO)_NTNV



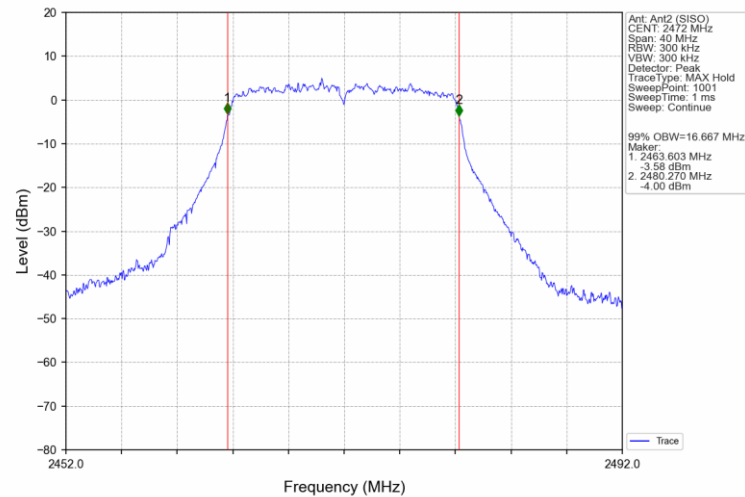
802.11g_2412MHz_Ant2 (SISO)_NTNV



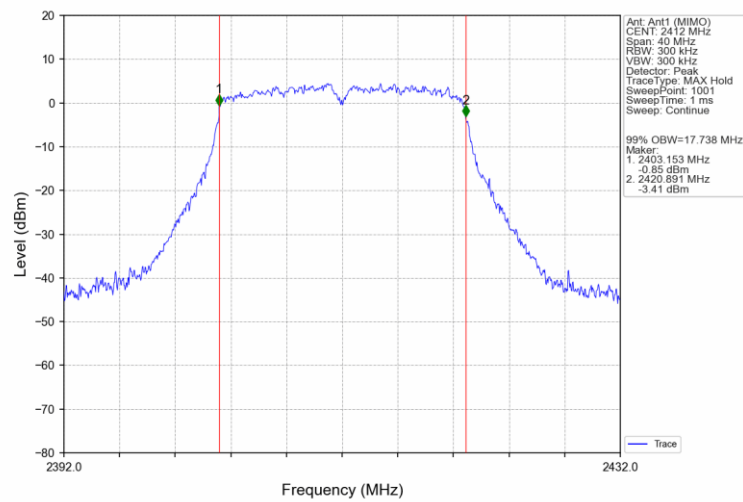
802.11g_2472MHz_Ant1 (SISO)_NTNV



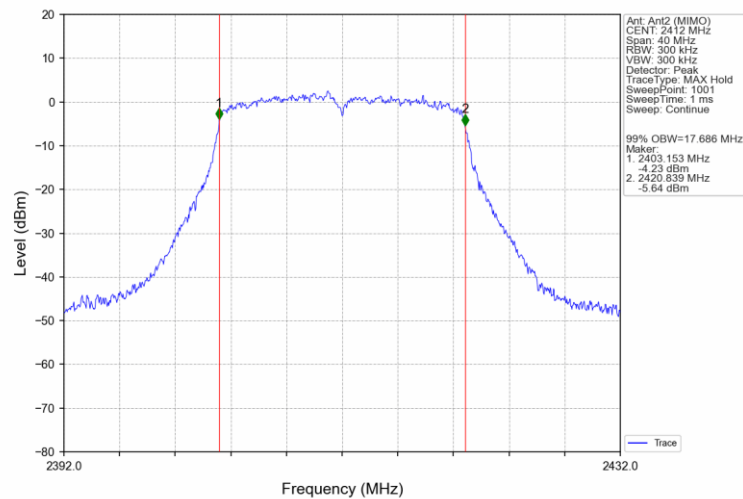
802.11g_2472MHz_Ant2 (SISO)_NTNV



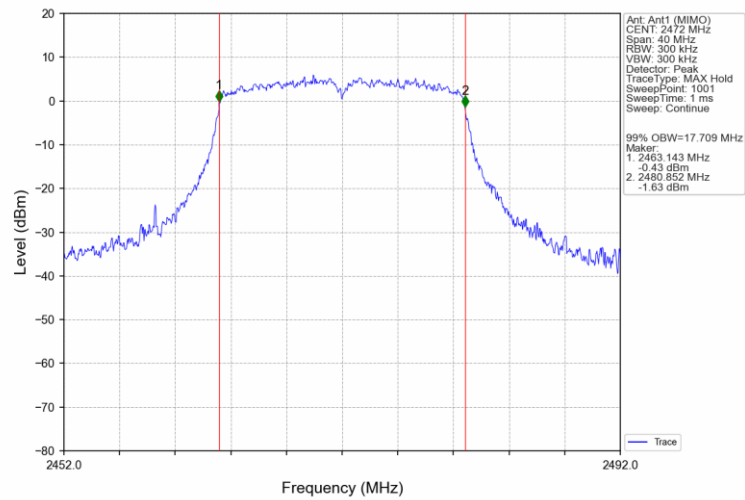
802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV



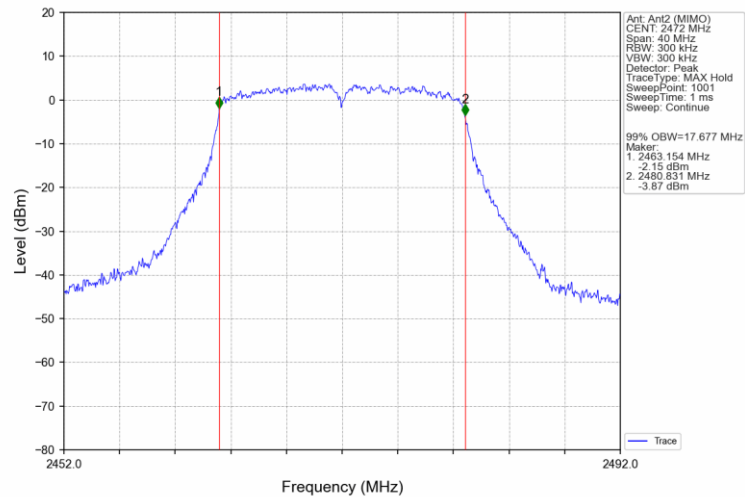
802.11n(HT20)_2412MHz_Ant2 (MIMO)_NTNV



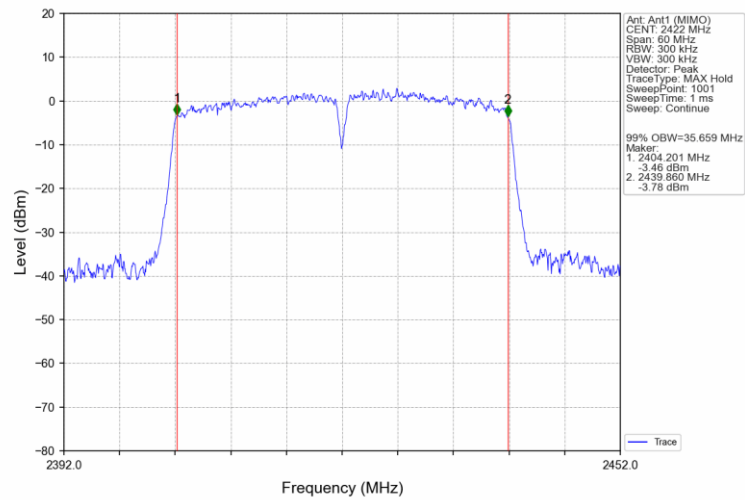
802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



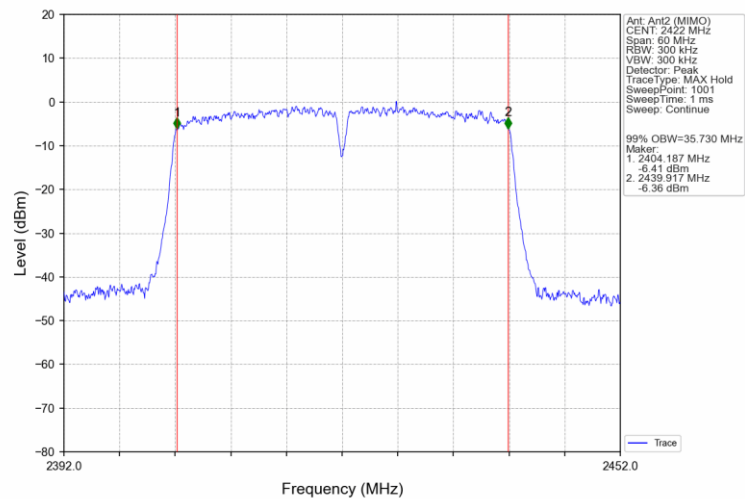
802.11n(HT20)_2472MHz_Ant2 (MIMO)_NTNV



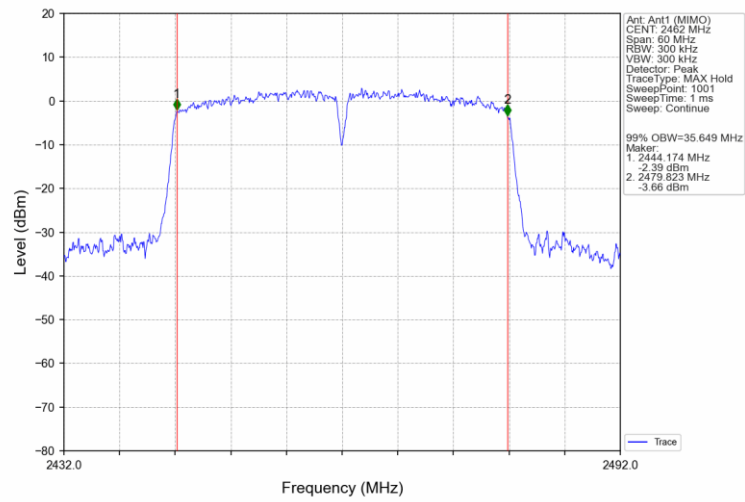
802.11n(HT40) 2422MHz_Ant1 (MIMO) NTN



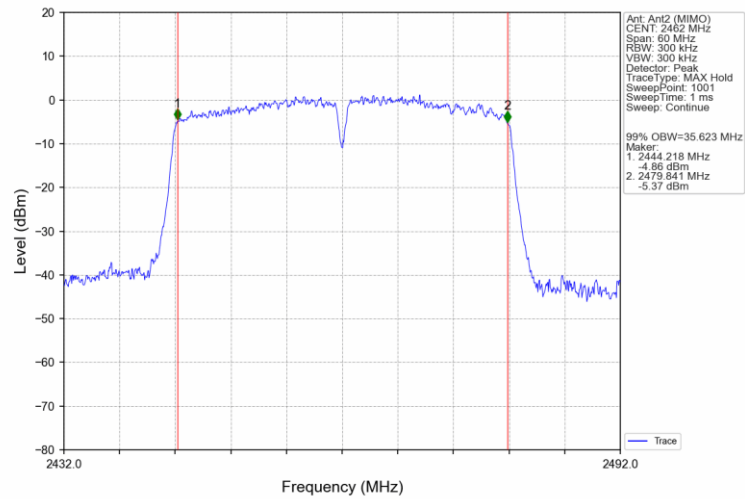
802.11n(HT40) 2422MHz_Ant2 (MIMO) NTN



802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



4. Antenna Power

4.1 Test Result

4.1.1 Power

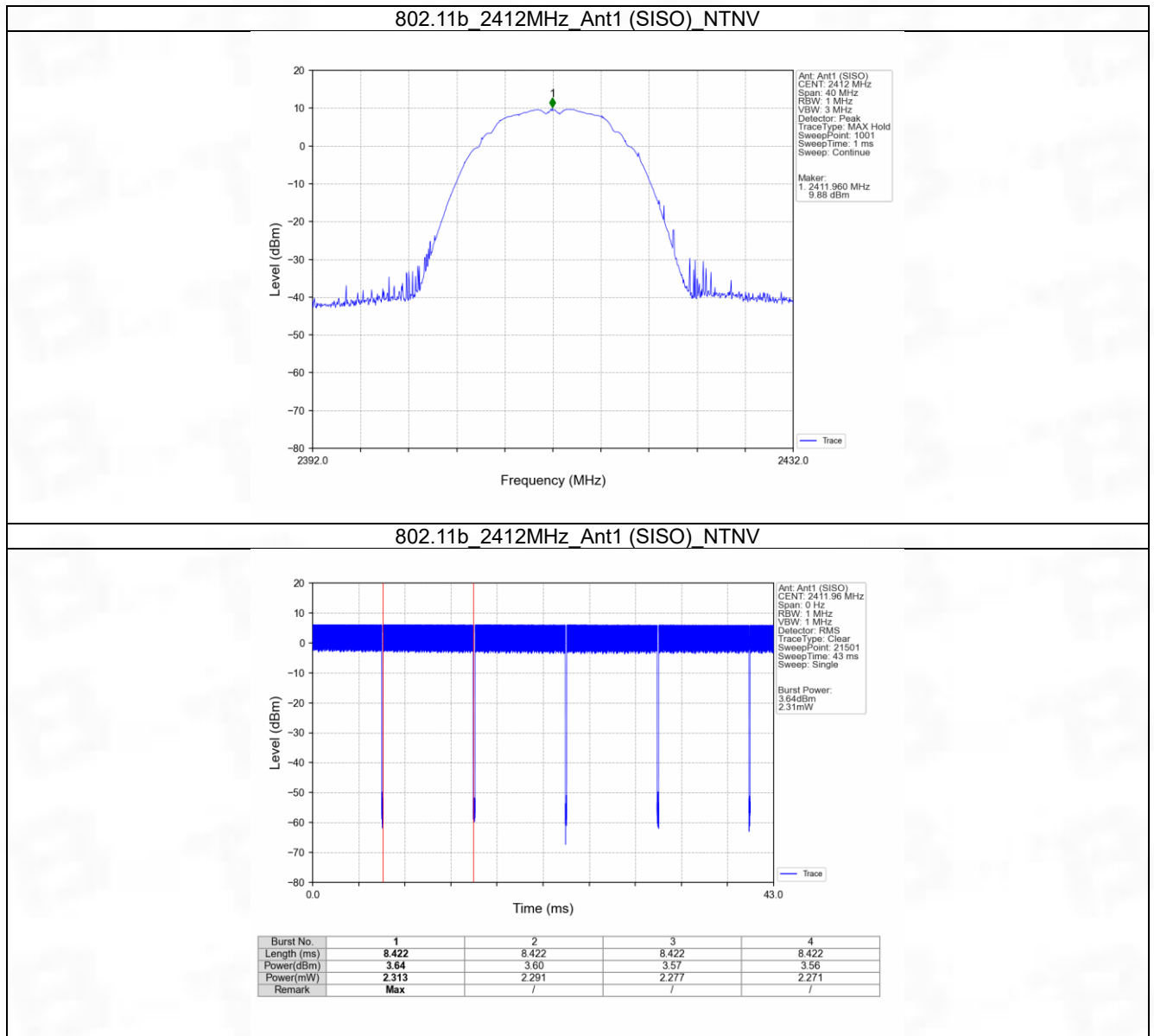
ENV	Mode	TX Type	Frequency (MHz)	ANT	Antenna Power (mW/MHz)		Nominal Power (mW/MHz)	Tolerance (%)		Verdict
					Measured	Limit		Measured	Limit	
NTNV	802.11b	SISO	2412	1	2.313	<=10.00	2.300	0.57	<=20	Pass
				2	1.297	<=10.00	1.300	-0.23	<=20	Pass
			2472	1	2.964	<=10.00	3.000	-1.20	<=20	Pass
				2	2.061	<=10.00	2.100	-1.86	<=20	Pass
	802.11g	SISO	2412	1	1.921	<=10.00	1.900	1.11	<=20	Pass
				2	1.038	<=10.00	1.000	3.80	<=20	Pass
			2472	1	2.221	<=10.00	2.200	0.95	<=20	Pass
				2	1.589	<=10.00	1.600	-0.69	<=20	Pass
	802.11n (HT20)	MIMO	2412	1	1.487	<=10.00	1.500	-0.87	<=20	Pass
				2	0.858	<=10.00	0.860	-0.23	<=20	Pass
				MIMO	2.345	<=10.00	2.300	1.96	<=20	Pass
			2472	1	1.988	<=10.00	2.000	-0.60	<=20	Pass
				2	1.498	<=10.00	1.500	-0.13	<=20	Pass
				MIMO	3.486	<=10.00	3.500	-0.40	<=20	Pass
	802.11n (HT40)	MIMO	2422	1	0.945	<=5.00	0.950	-0.53	<=20	Pass
				2	0.525	<=5.00	0.530	-0.94	<=20	Pass
				MIMO	1.470	<=5.00	1.500	-2.00	<=20	Pass
			2462	1	1.016	<=5.00	1.000	1.60	<=20	Pass
				2	0.743	<=5.00	0.740	0.41	<=20	Pass
				MIMO	1.759	<=5.00	1.800	-2.28	<=20	Pass

4.1.2 EIRP

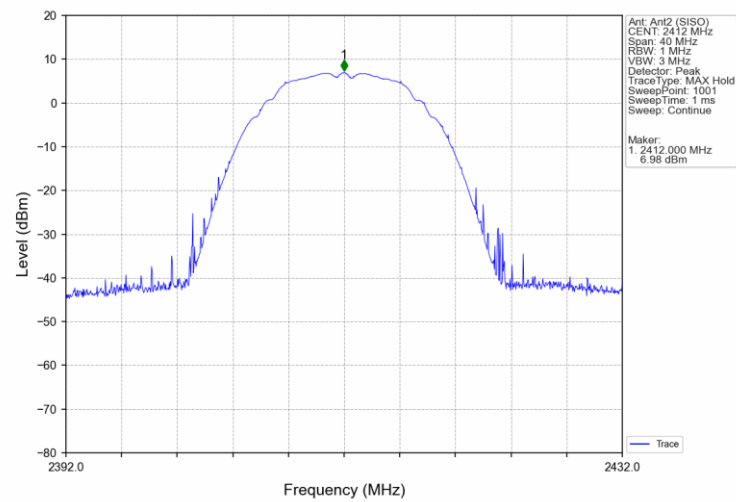
ENV	Mode	TX Type	Frequency (MHz)	ANT	Gain (dBi)	EIRP (dBm/MHz)		Verdict
						Result	Limit	
NTNV	802.11b	SISO	2412	1	4.60	8.24	<=12.14	Pass
				2	4.60	5.73	<=12.14	Pass
			2472	1	4.60	9.32	<=12.14	Pass
				2	4.60	7.74	<=12.14	Pass
	802.11g	SISO	2412	1	4.60	7.43	<=12.14	Pass
				2	4.60	4.76	<=12.14	Pass
			2472	1	4.60	8.07	<=12.14	Pass
				2	4.60	6.61	<=12.14	Pass
	802.11n (HT20)	MIMO	2412	1	4.60	6.32	<=12.14	Pass
				2	4.60	3.94	<=12.14	Pass
				MIMO	7.61	8.30	<=12.14	Pass
			2472	1	4.60	7.58	<=12.14	Pass
				2	4.60	6.36	<=12.14	Pass
				MIMO	7.61	10.02	<=12.14	Pass
	802.11n (HT40)	MIMO	2422	1	4.60	4.36	<=9.13	Pass
				2	4.60	1.81	<=9.13	Pass
				MIMO	7.61	6.27	<=9.13	Pass
			2462	1	4.60	4.67	<=9.13	Pass
				2	4.60	3.31	<=9.13	Pass
				MIMO	7.61	7.05	<=9.13	Pass

4.2 Test Graph

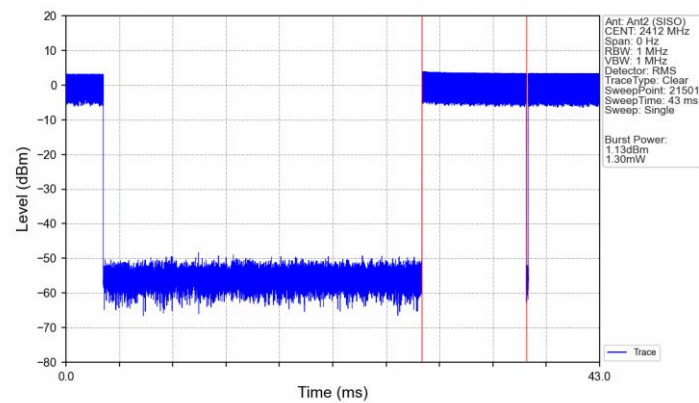
4.2.1 Power



802.11b_2412MHz_Ant2 (SISO)_NTNV

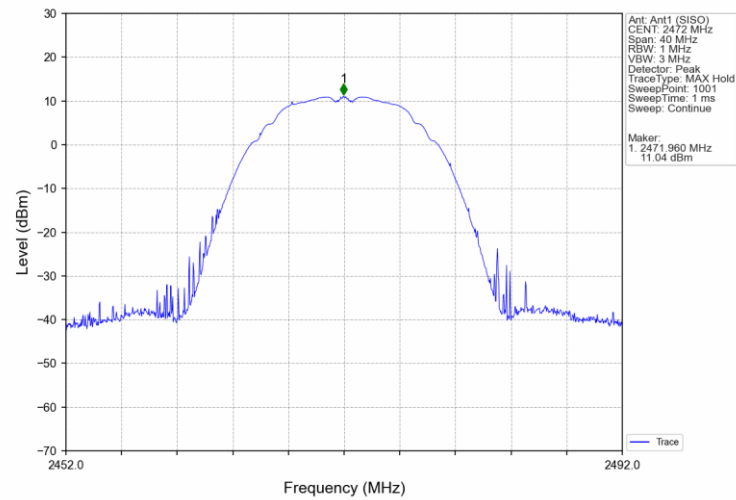


802.11b_2412MHz_Ant2 (SISO)_NTNV

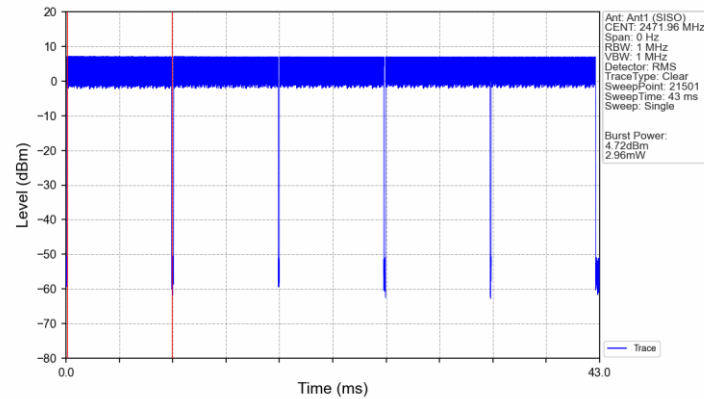


Burst No.	1
Length (ms)	8.420
Power (dBm)	1.13
Power (mW)	1.297
Remark	Max

802.11b_2472MHz_Ant1 (SISO)_NTNV

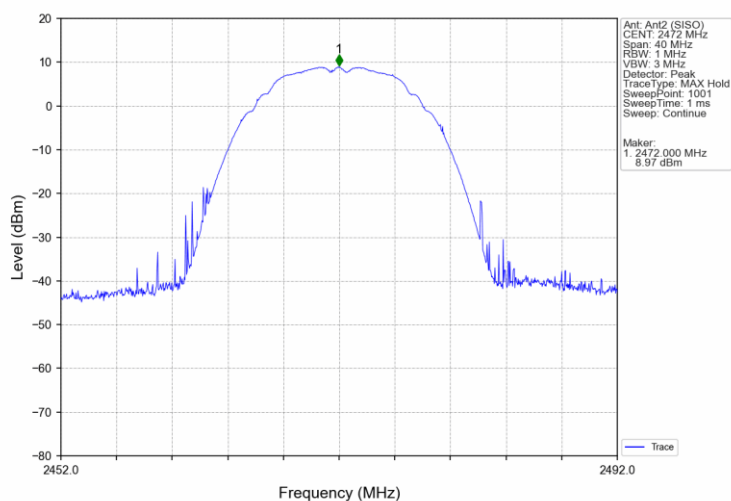


802.11b_2472MHz_Ant1 (SISO)_NTNV

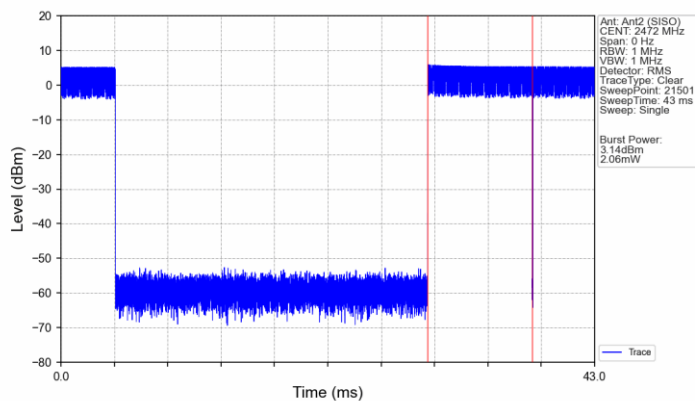


Burst No.	1	2	3	4	5
Length (ms)	8.430	8.430	8.430	8.430	8.430
Power (dBm)	4.72	4.69	4.68	4.68	4.66
Power (mW)	2.964	2.947	2.938	2.937	2.925
Remark	Max	/	/	/	/

802.11b_2472MHz_Ant2 (SISO)_NTNV

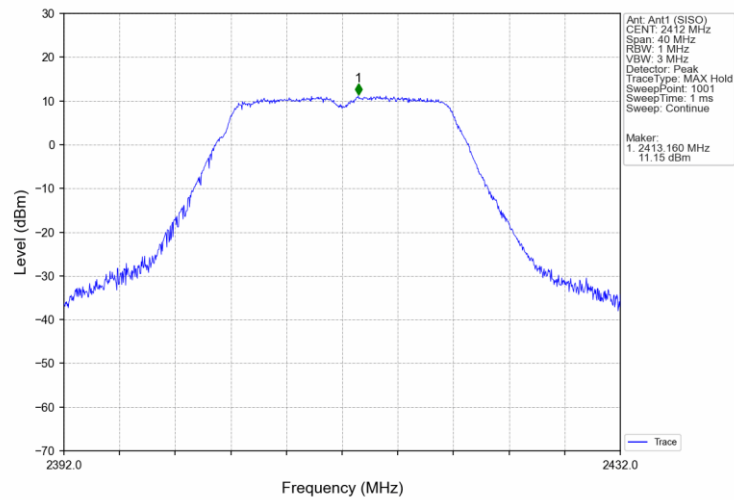


802.11b_2472MHz_Ant2 (SISO)_NTNV

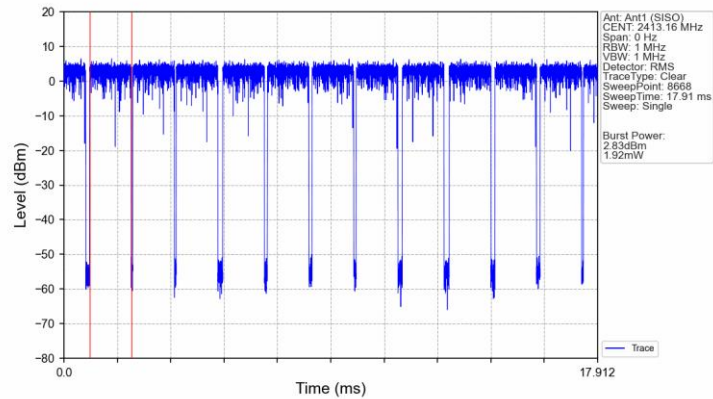


Burst No.	1
Length (ms)	8.420
Power(dBm)	3.14
Power(mW)	2.061
Remark	Max

802.11g_2412MHz_Ant1 (SISO)_NTNV

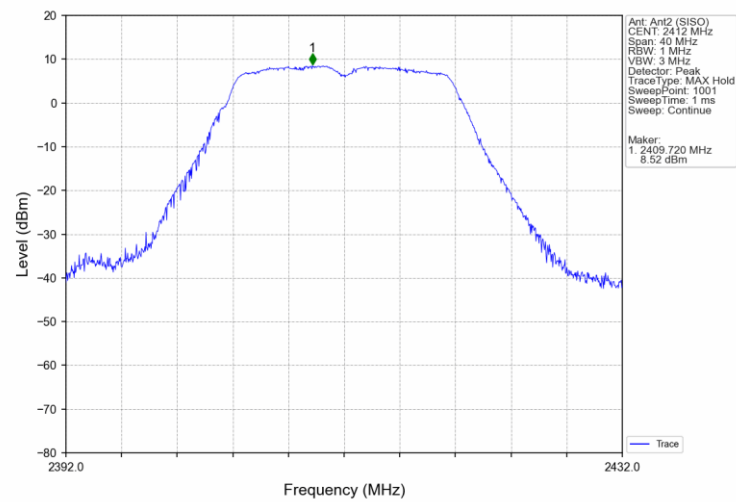


802.11g_2412MHz_Ant1 (SISO)_NTNV

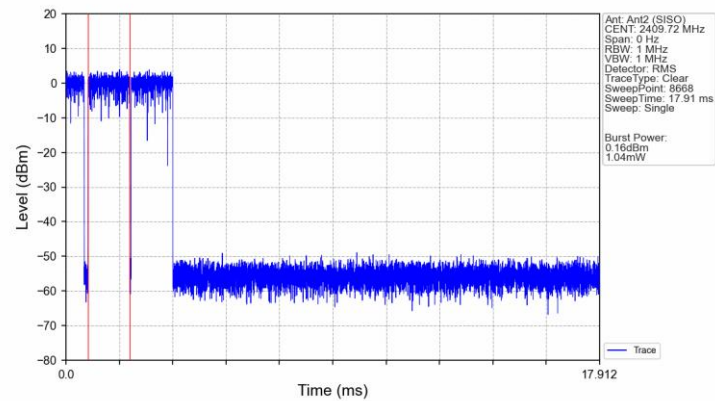


Burst No.	1	2	3	4	5	6	7	8	9	10	11
Length (ms)	1.399	1.397	1.397	1.397	1.399	1.399	1.399	1.397	1.399	1.399	1.397
Power (dBm)	2.83	2.80	2.78	2.78	2.75	2.75	2.73	2.74	2.73	2.73	2.72
Power (mW)	1.921	1.907	1.896	1.897	1.885	1.885	1.875	1.880	1.877	1.875	1.869
Remark	Max	/	/	/	/	/	/	/	/	/	/

802.11g_2412MHz_Ant2 (SISO)_NTNV

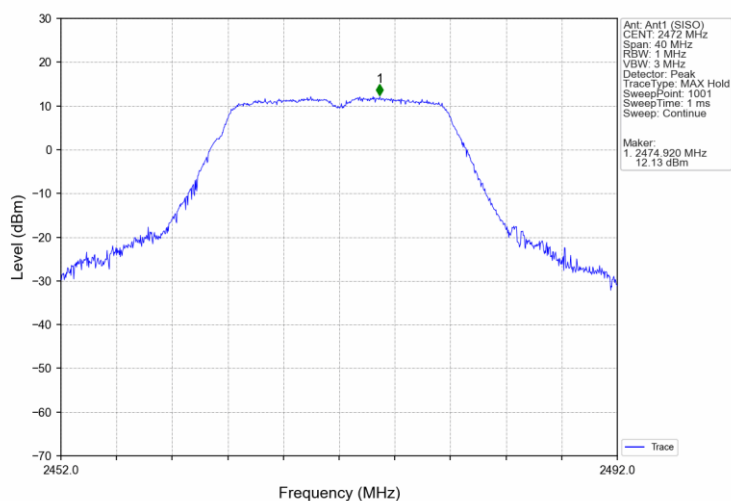


802.11g_2412MHz_Ant2 (SISO)_NTNV

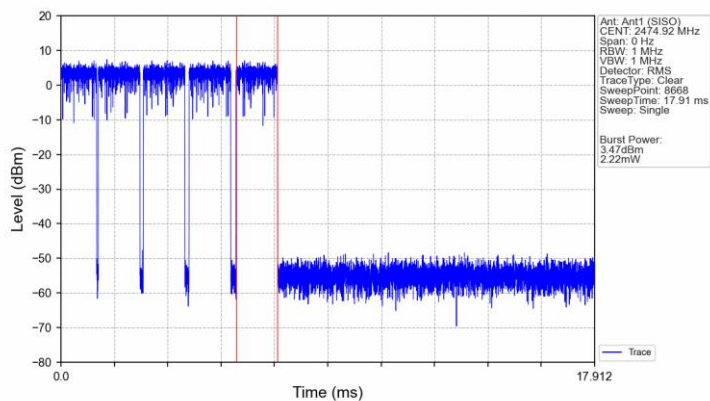


Burst No.	1	2
Length (ms)	1.407	1.409
Power (dBm)	0.16	0.14
Power (mW)	1.038	1.032
Remark	Max	/

802.11g_2472MHz_Ant1 (SISO)_NTNV

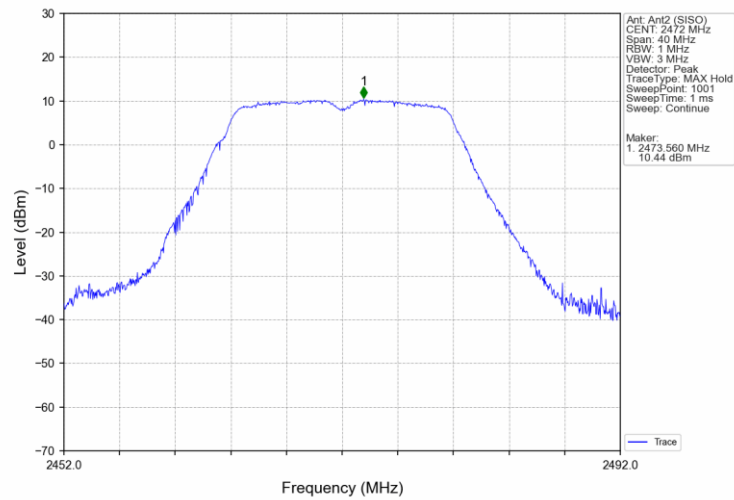


802.11g_2472MHz_Ant1 (SISO)_NTNV

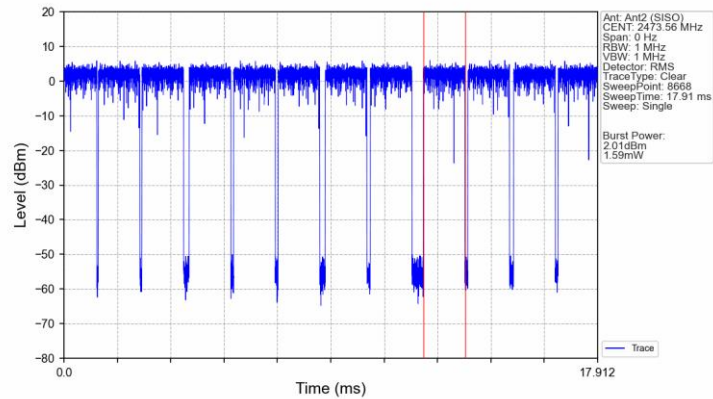


Burst No.	1	2	3	4
Length (ms)	1.397	1.397	1.399	1.397
Power (dBm)	3.45	3.45	3.45	3.47
Power (mW)	2.212	2.212	2.215	2.221
Remark	/	/	/	Max

802.11g_2472MHz_Ant2 (SISO)_NTNV

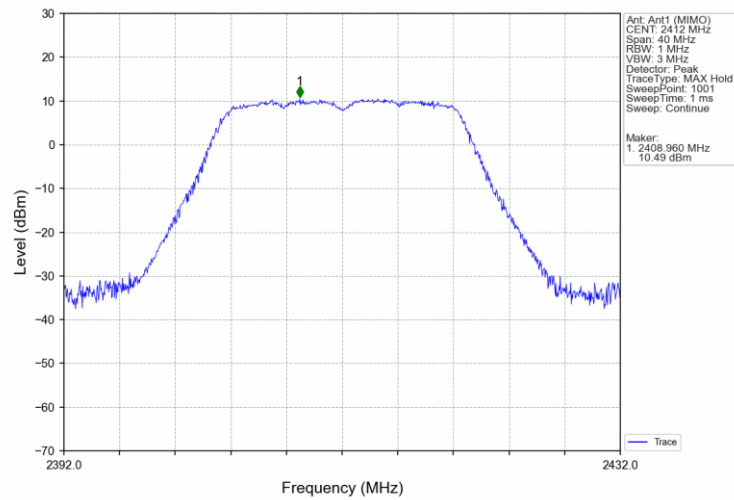


802.11g_2472MHz_Ant2 (SISO)_NTNV

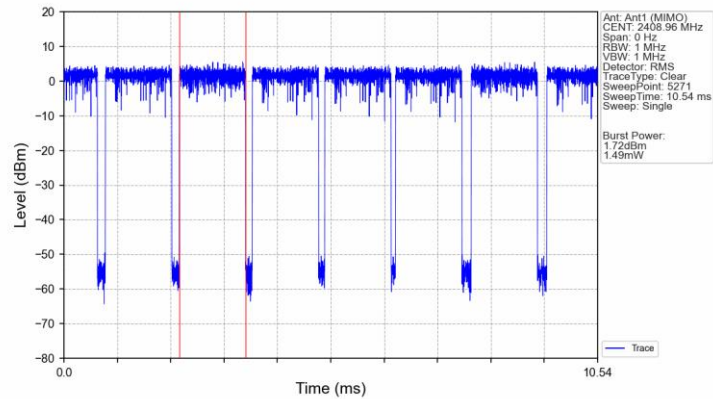


Burst No.	1	2	3	4	5	6	7	8	9	10
Length (ms)	1.407	1.409	1.407	1.407	1.407	1.407	1.407	1.405	1.407	1.407
Power (dBm)	1.96	1.96	1.98	1.96	1.96	1.97	1.96	2.01	1.98	1.98
Power (mW)	1.569	1.570	1.576	1.569	1.569	1.574	1.569	1.589	1.577	1.579
Remark	/	/	/	/	/	/	/	Max	/	/

802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV

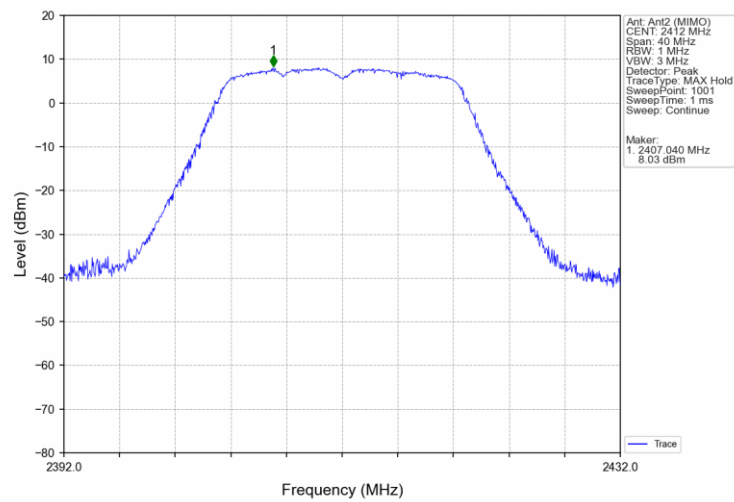


802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV

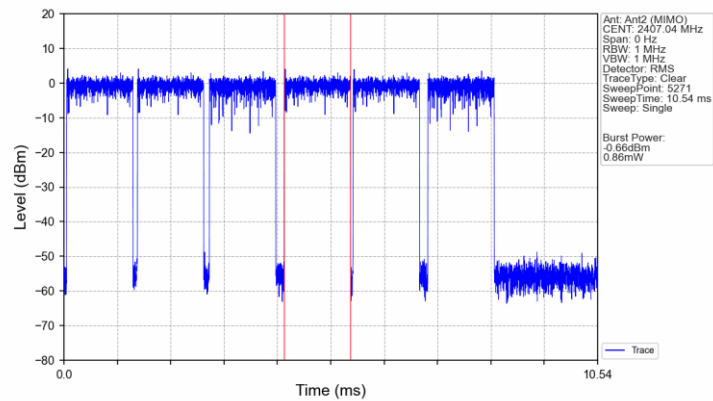


Burst No.	1	2	3	4	5	6
Length (ms)	1.310	1.308	1.310	1.310	1.310	1.308
Power (dBm)	1.72	1.72	1.72	1.70	1.66	1.66
Power (mW)	1.486	1.487	1.485	1.481	1.466	1.472
Remark	/	Max	/	/	/	/

802.11n(HT20) 2412MHz_Ant2 (MIMO)_NTNV

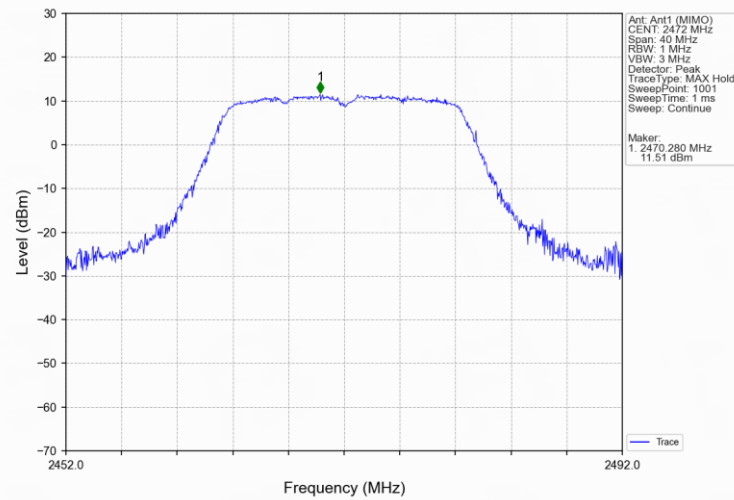


802.11n(HT20) 2412MHz_Ant2 (MIMO)_NTNV

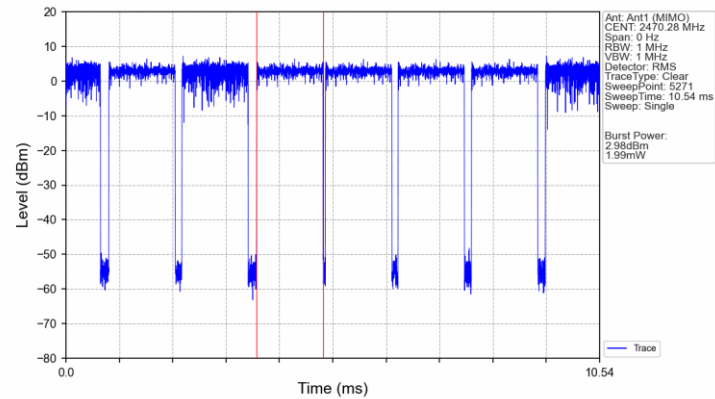


Burst No.	1	2	3	4	5	6
Length (ms)	1.308	1.308	1.310	1.308	1.308	1.310
Power(dBm)	-0.67	-0.67	-0.70	-0.66	-0.70	-0.67
Power(mW)	0.856	0.857	0.852	0.858	0.851	0.857
Remark	/	/	/	Max	/	/

802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV

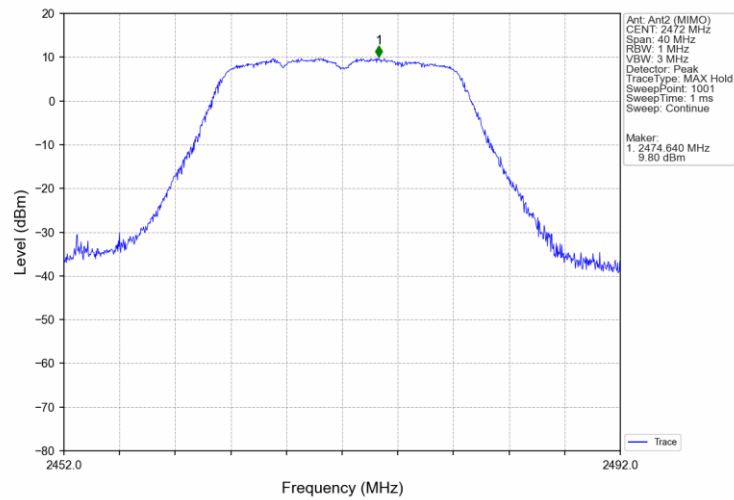


802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV

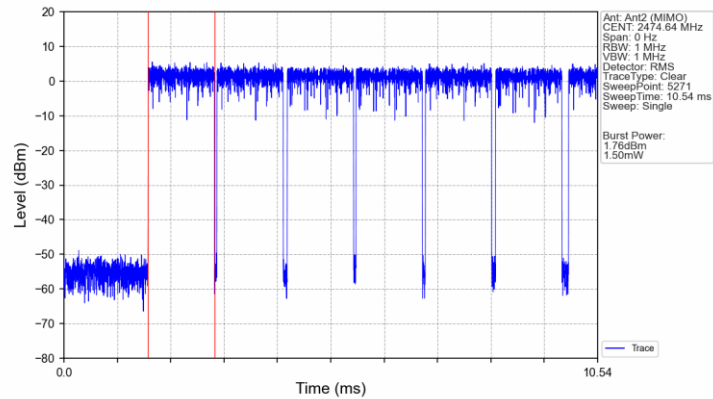


Burst No.	1	2	3	4	5	6
Length (ms)	1.310	1.310	1.310	1.310	1.310	1.310
Power (dBm)	2.97	2.98	2.98	2.95	2.93	2.93
Power (mW)	1.980	1.984	1.988	1.973	1.962	1.965
Remark	/	/	Max	/	/	/

802.11n(HT20) 2472MHz_Ant2 (MIMO)_NTNV

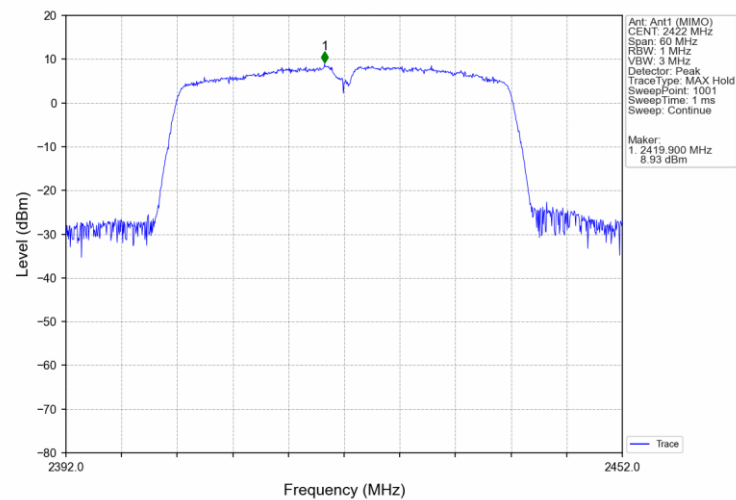


802.11n(HT20) 2472MHz_Ant2 (MIMO)_NTNV

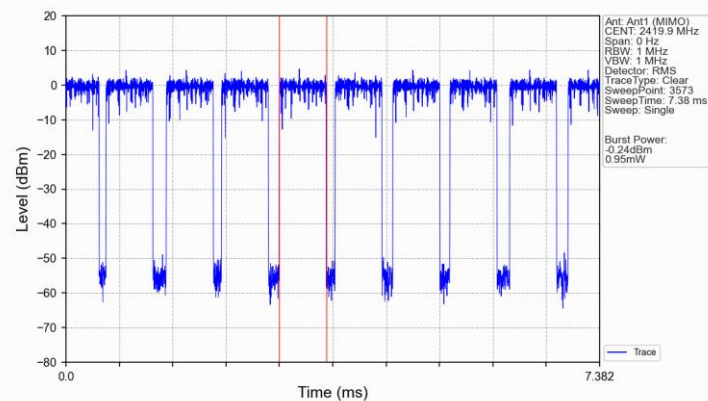


Burst No.	1	2	3	4	5	6
Length (ms)	1.310	1.310	1.310	1.310	1.308	1.310
Power (dBm)	1.76	1.60	1.50	1.45	1.47	1.45
Power (mW)	1.498	1.447	1.412	1.395	1.403	1.395
Remark	Max	/	/	/	/	/

802.11n(HT40) 2422MHz_Ant1 (MIMO)_NTNV

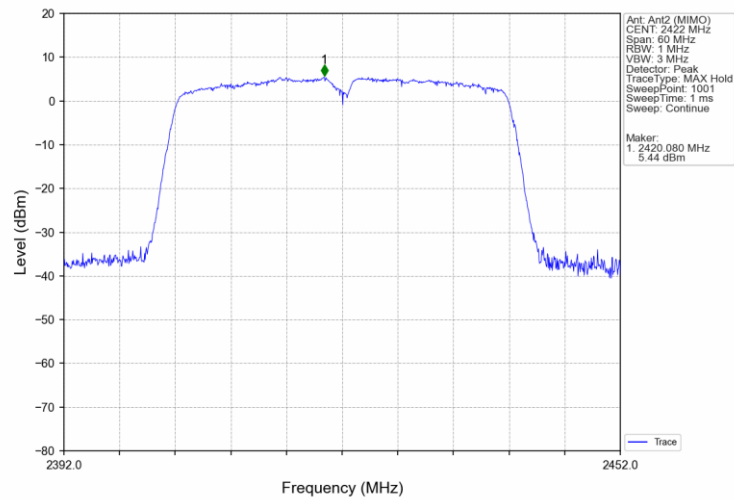


802.11n(HT40) 2422MHz_Ant1 (MIMO)_NTNV

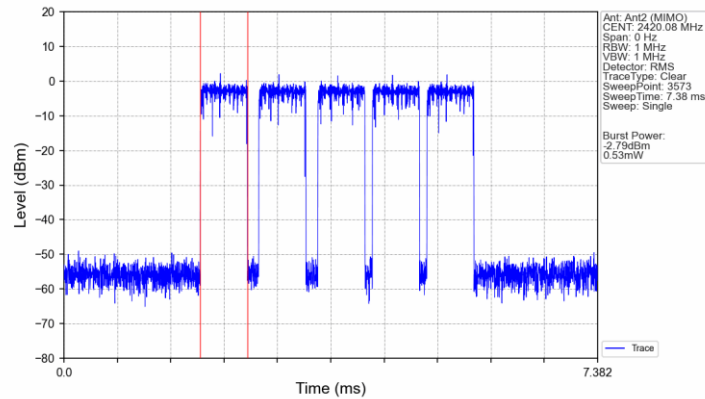


Burst No.	1	2	3	4	5	6	7	8
Length (ms)	0.649	0.649	0.651	0.649	0.651	0.649	0.651	0.649
Power(dBm)	-0.25	-0.27	-0.31	-0.24	-0.27	-0.25	-0.30	-0.29
Power(mW)	0.943	0.939	0.932	0.945	0.940	0.944	0.933	0.936
Remark	/	/	/	Max	/	/	/	/

802.11n(HT40) 2422MHz_Ant2 (MIMO)_NTNV

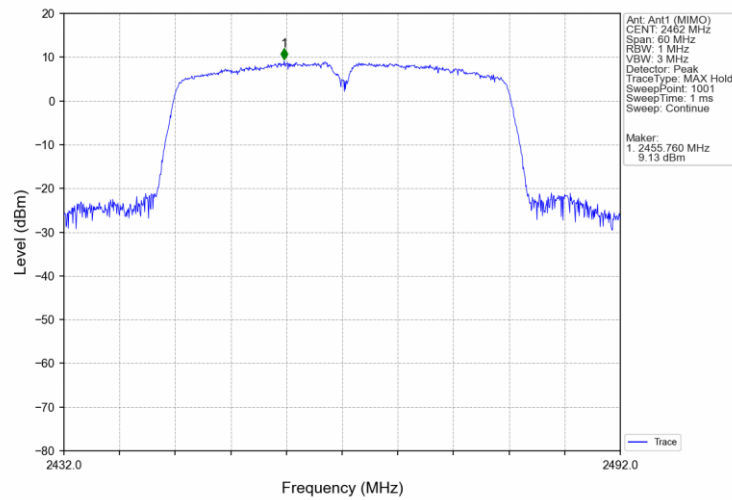


802.11n(HT40) 2422MHz_Ant2 (MIMO)_NTNV

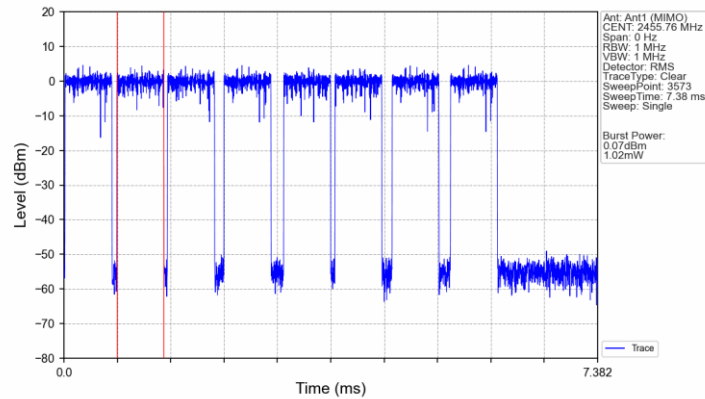


Burst No.	1	2	3	4	5
Length (ms)	0.649	0.649	0.649	0.649	0.649
Power(dBm)	-2.79	-2.94	-2.96	-3.00	-3.07
Power(mW)	0.525	0.508	0.506	0.501	0.494
Remark	Max	/	/	/	/

802.11n(HT40) 2462MHz_Ant1 (MIMO)_NTNV

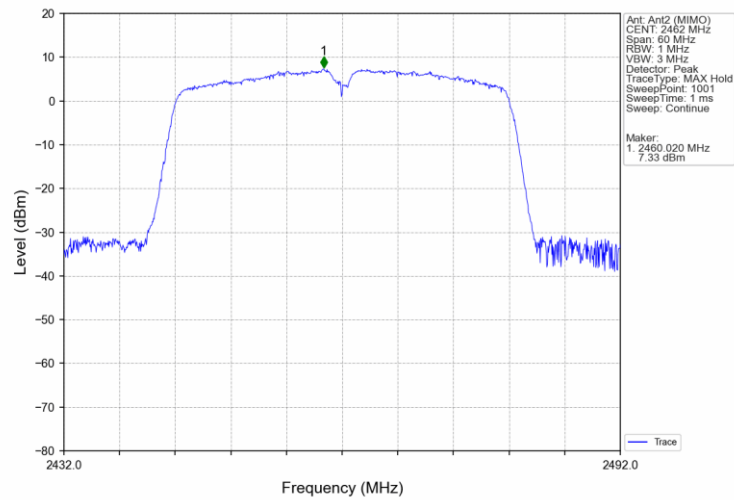


802.11n(HT40) 2462MHz_Ant1 (MIMO)_NTNV

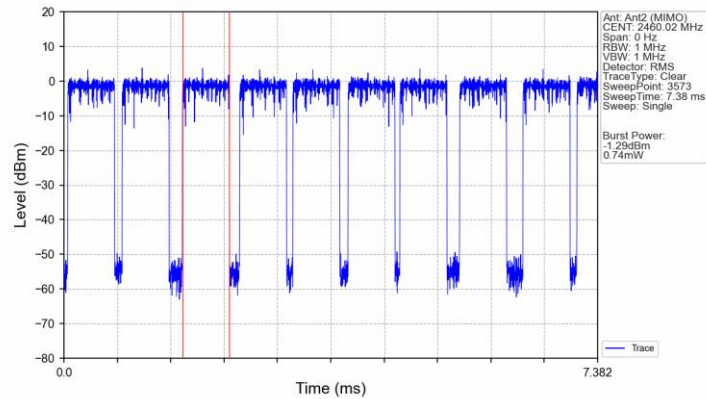


Burst No.	1	2	3	4	5	6	7	8
Length (ms)	0.651	0.649	0.649	0.649	0.649	0.649	0.649	0.651
Power(dBm)	0.07	0.07	0.04	0.06	0.03	0.02	0.06	0.06
Power(mW)	1.016	1.016	1.010	1.013	1.008	1.004	1.014	1.014
Remark	/	Max	/	/	/	/	/	/

802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



Burst No.	1	2	3	4	5	6	7	8	9
Length (ms)	0.649	0.649	0.649	0.651	0.651	0.651	0.649	0.651	0.649
Power(dBm)	-1.34	-1.29	-1.29	-1.31	-1.33	-1.33	-1.39	-1.37	-1.36
Power(mW)	0.735	0.743	0.743	0.739	0.736	0.736	0.726	0.729	0.731
Remark	/	/	Max	/	/	/	/	/	/

5. Spurious Emission Intensity

5.1 Test Result

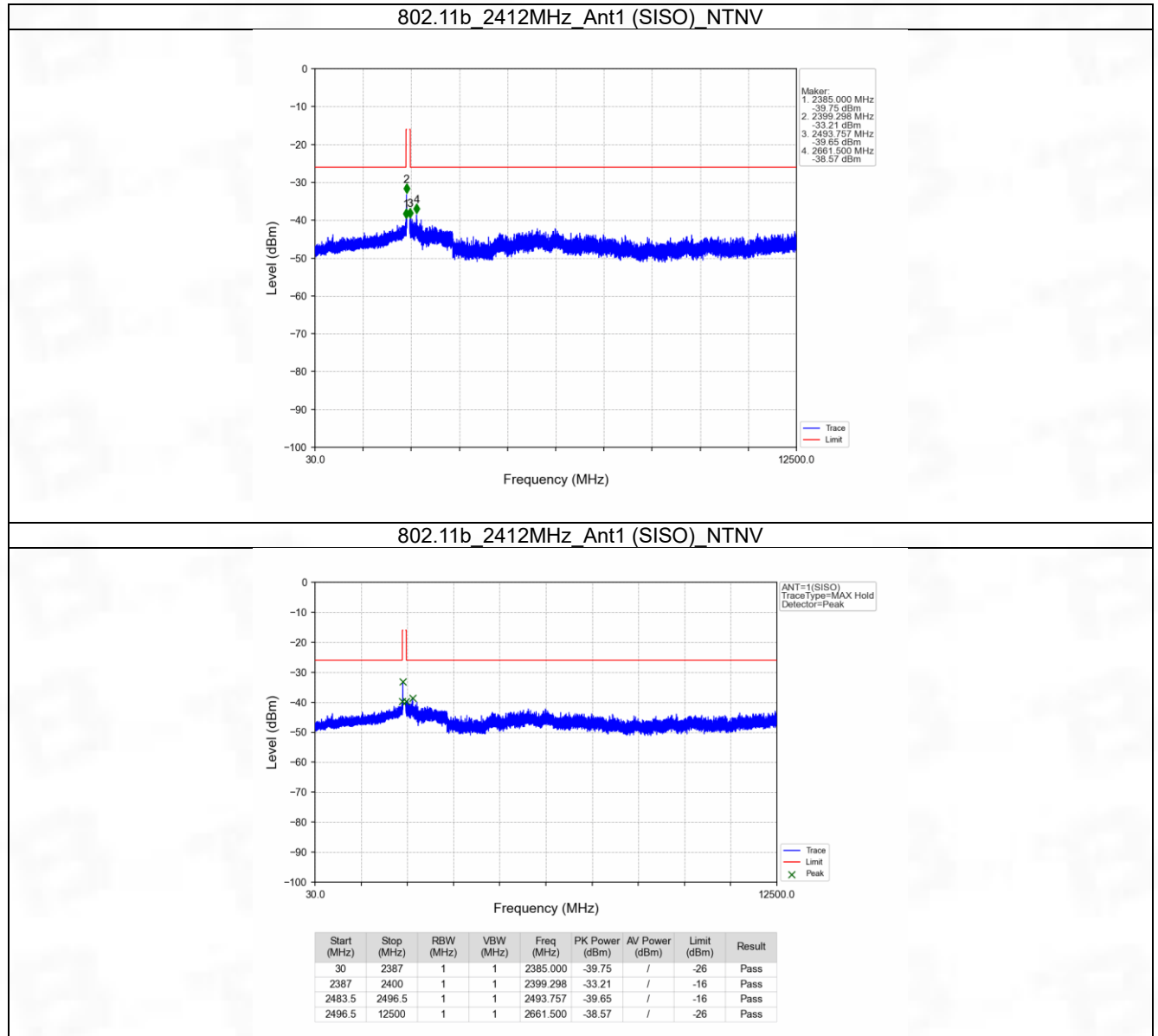
5.1.1 TxSe_NTNV

NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (uW /MHz)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm /MHz)	PK Power (uW /MHz)	AV Power (dBm /MHz)	AV Power (uW /MHz)		
802.11b	SISO	2412	1	30	2387	2385	-39.75	0.106	/	/	2.5	Pass
				2387	2400	2399.298	-33.21	0.478	/	/	25	Pass
				2483.5	2496.5	2493.757	-39.65	0.108	/	/	25	Pass
				2496.5	12500	2661.5	-38.57	0.139	/	/	2.5	Pass
			2	30	2387	2305.5	-41.39	0.073	/	/	2.5	Pass
				2387	2400	2399.636	-32.48	0.565	/	/	25	Pass
				2483.5	2496.5	2486.685	-40.03	0.099	/	/	25	Pass
				2496.5	12500	2662	-38.68	0.136	/	/	2.5	Pass
		2472	1	30	2387	2376	-40.52	0.089	/	/	2.5	Pass
				2387	2400	2392.499	-39.65	0.108	/	/	25	Pass
				2483.5	2496.5	2483.63	-26.52	2.228	/	/	25	Pass
				2496.5	12500	2722.5	-38.02	0.158	/	/	2.5	Pass
			2	30	2387	2222.5	-42.11	0.062	/	/	2.5	Pass
				2387	2400	2397.881	-43.10	0.049	/	/	25	Pass
				2483.5	2496.5	2483.734	-29.98	1.005	/	/	25	Pass
				2496.5	12500	2520	-40.43	0.091	/	/	2.5	Pass
802.11g	SISO	2412	1	30	2387	2371	-40.98	0.080	/	/	2.5	Pass
				2387	2400	2399.974	-17.67	17.100	-34.32	0.370	25	Pass
				2483.5	2496.5	2496.383	-39.74	0.106	/	/	25	Pass
				2496.5	12500	2662.5	-39.79	0.105	/	/	2.5	Pass
			2	30	2387	2361	-40.55	0.088	/	/	2.5	Pass
				2387	2400	2399.909	-19.77	10.544	/	/	25	Pass
				2483.5	2496.5	2490.429	-40.33	0.093	/	/	25	Pass
				2496.5	12500	2664.5	-38.76	0.133	/	/	2.5	Pass
		2472	1	30	2387	2215	-41.03	0.079	/	/	2.5	Pass
				2387	2400	2397.439	-40.33	0.093	/	/	25	Pass
				2483.5	2496.5	2485.502	-15.17	30.409	-35.51	0.281	25	Pass
				2496.5	12500	2497.5	-38.15	0.153	/	/	2.5	Pass
			2	30	2387	2225.5	-41.03	0.079	/	/	2.5	Pass
				2387	2400	2387.858	-42.07	0.062	/	/	25	Pass
				2483.5	2496.5	2483.513	-17.18	19.143	-33.04	0.497	25	Pass
				2496.5	12500	2523.5	-38.74	0.134	/	/	2.5	Pass
802.11n (HT20)	MIMO	2412	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	2387	2380	-38.64	0.137	/	/	2.5	Pass
				2387	2400	2399.987	-14.94	32.063	-31.31	0.739	25	Pass
				2483.5	2496.5	2484.241	-37.78	0.167	/	/	25	Pass
				2496.5	12500	2662.5	-36.81	0.208	/	/	2.5	Pass
		2472	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	2387	2386	-38.71	0.135	/	/	2.5	Pass
				2387	2400	2390.172	-38.59	0.138	/	/	25	Pass
				2483.5	2496.5	2483.578	-11.08	77.983	-27.16	1.924	25	Pass
				2496.5	12500	2497	-37.34	0.185	/	/	2.5	Pass
802.11n (HT40)	MIMO	2422	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	2387	2385	-33.58	0.439	/	/	2.5	Pass
				2387	2400	2398.193	-25.14	3.062	/	/	25	Pass
				2483.5	2496.5	2483.851	-36.47	0.225	/	/	25	Pass
				2496.5	12500	2655	-37.30	0.186	/	/	2.5	Pass
		2462	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass

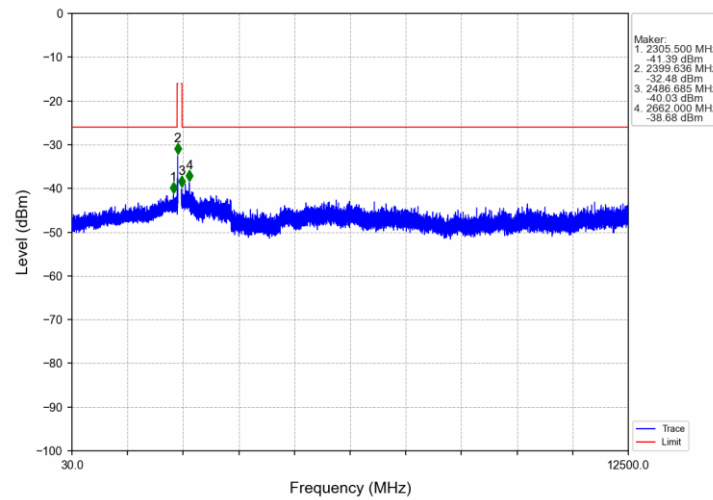
			MIMO	30	2387	2361.5	-38.04	0.157	/	/	2.5	Pass
				2387	2400	2398.323	-38.26	0.149	/	/	25	Pass
				2483.5	2496.5	2485.71	-20.92	8.091	/	/	25	Pass
				2496.5	12500	2498.5	-30.90	0.813	/	/	2.5	Pass

5.2 Test Graph

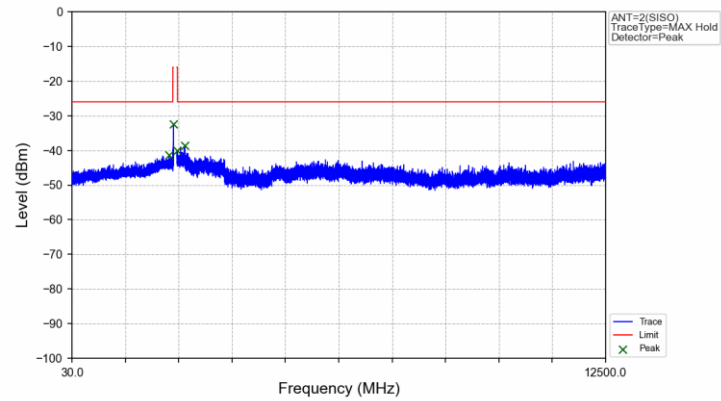
5.2.1 TxSe_NTNV



802.11b_2412MHz_Ant2 (SISO)_NTNV

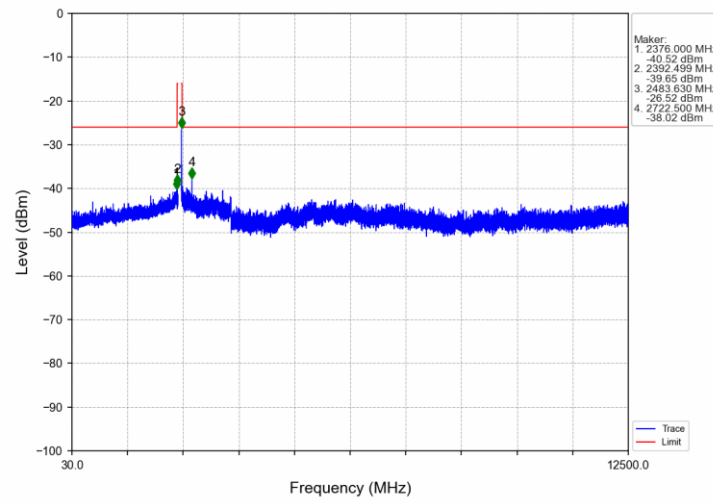


802.11b_2412MHz_Ant2 (SISO)_NTNV

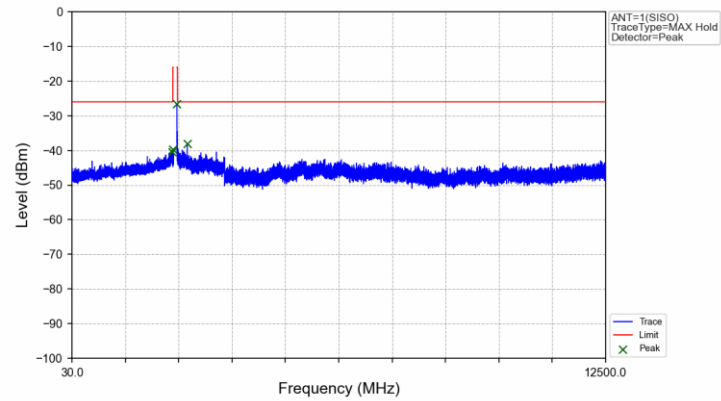


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2305.500	-41.39	/	-26	Pass
2387	2400	1	1	2399.636	-32.48	/	-16	Pass
2483.5	2496.5	1	1	2486.685	-40.03	/	-16	Pass
2496.5	12500	1	1	2662.000	-38.68	/	-26	Pass

802.11b_2472MHz_Ant1 (SISO)_NTNV

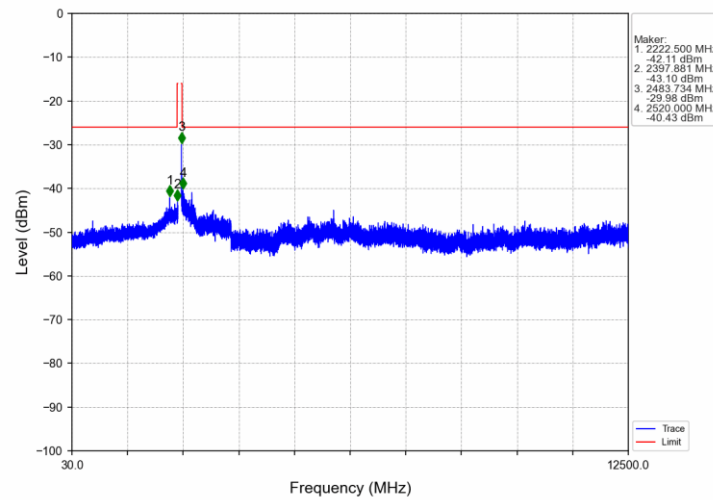


802.11b_2472MHz_Ant1 (SISO)_NTNV

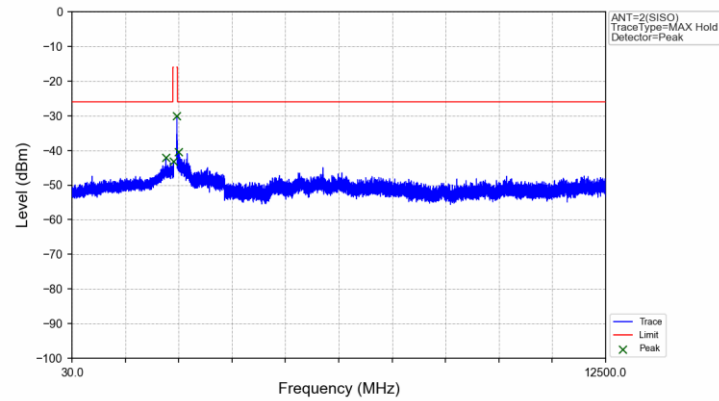


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2376.000	-40.52	/	-26	Pass
2387	2400	1	1	2392.499	-39.65	/	-16	Pass
2483.5	2496.5	1	1	2483.630	-26.52	/	-16	Pass
2496.5	12500	1	1	2722.500	-38.02	/	-26	Pass

802.11b_2472MHz_Ant2 (SISO)_NTNV

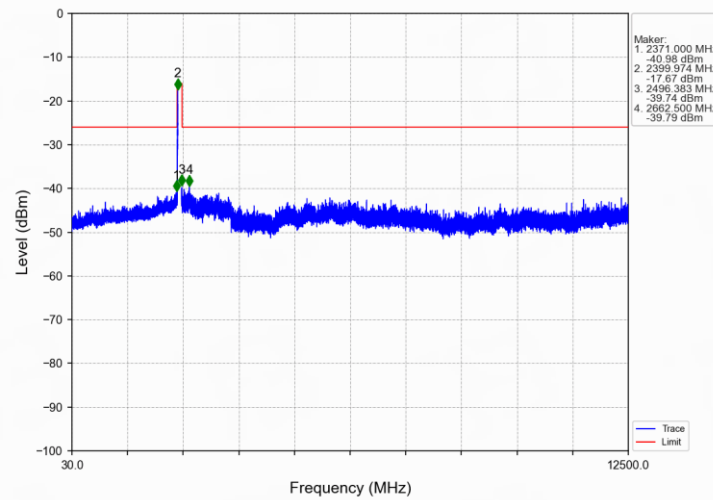


802.11b_2472MHz_Ant2 (SISO)_NTNV

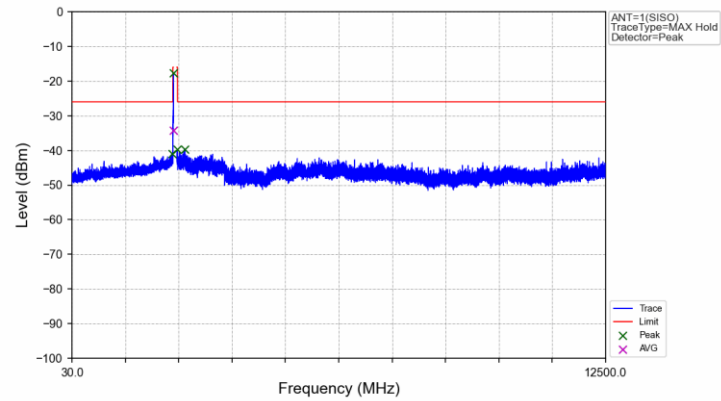


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2222.500	-42.11	/	-26	Pass
2387	2400	1	1	2397.881	-43.10	/	-16	Pass
2483.5	2496.5	1	1	2483.734	-29.98	/	-16	Pass
2496.5	12500	1	1	2520.000	-40.43	/	-26	Pass

802.11g_2412MHz_Ant1 (SISO)_NTNV

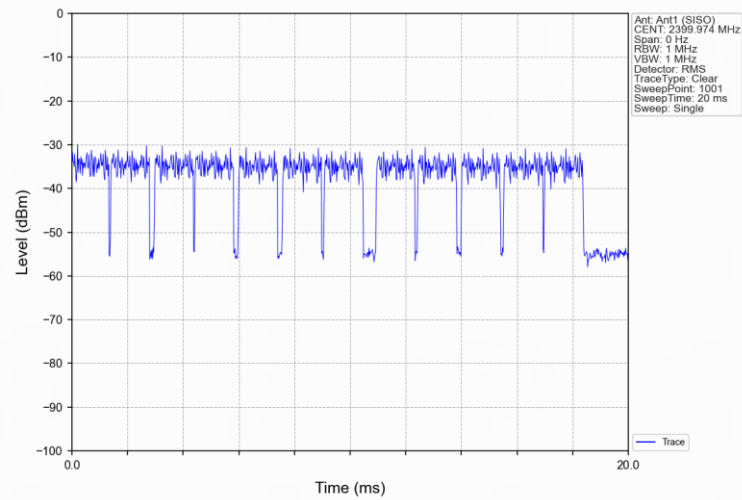


802.11g_2412MHz_Ant1 (SISO)_NTNV

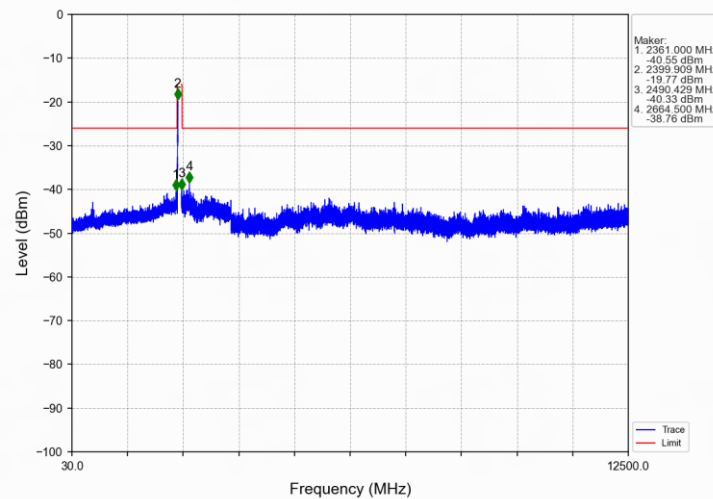


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2371.000	-40.98	/	-26	Pass
2387	2400	1	1	2399.974	-17.67	-34.32	-16	Pass
2483.5	2496.5	1	1	2496.383	-39.74	/	-16	Pass
2496.5	12500	1	1	2662.500	-39.79	/	-26	Pass

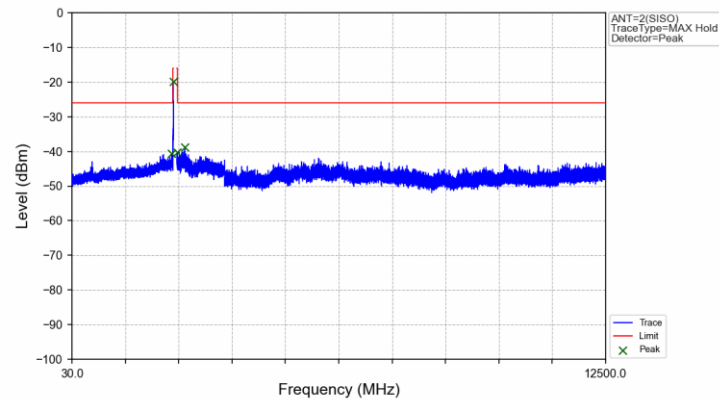
802.11g_2412MHz_Ant1 (SISO)_NTNV



802.11g_2412MHz_Ant2 (SISO)_NTNV

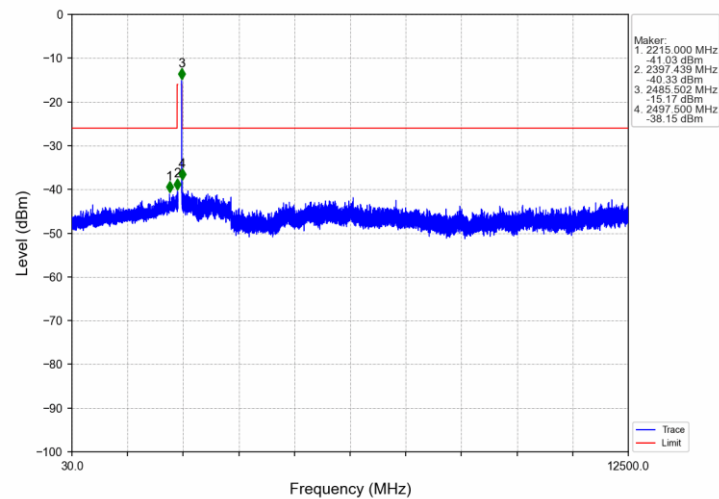


802.11g_2412MHz_Ant2 (SISO)_NTNV

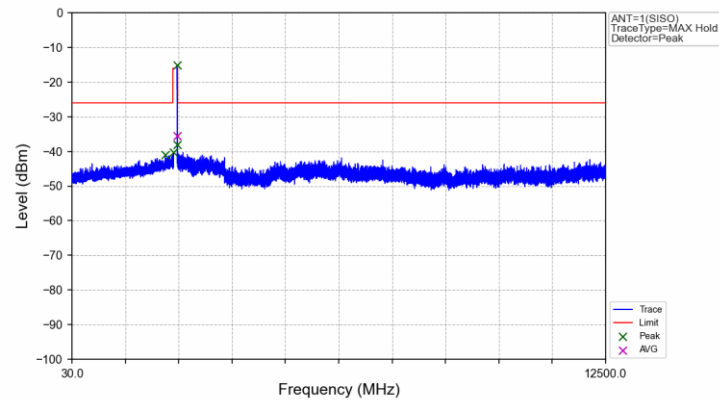


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2361.000	-40.55	/	-26	Pass
2387	2400	1	1	2399.909	-19.77	/	-16	Pass
2483.5	2496.5	1	1	2490.429	-40.33	/	-16	Pass
2496.5	12500	1	1	2664.500	-38.76	/	-26	Pass

802.11g_2472MHz_Ant1 (SISO)_NTNV

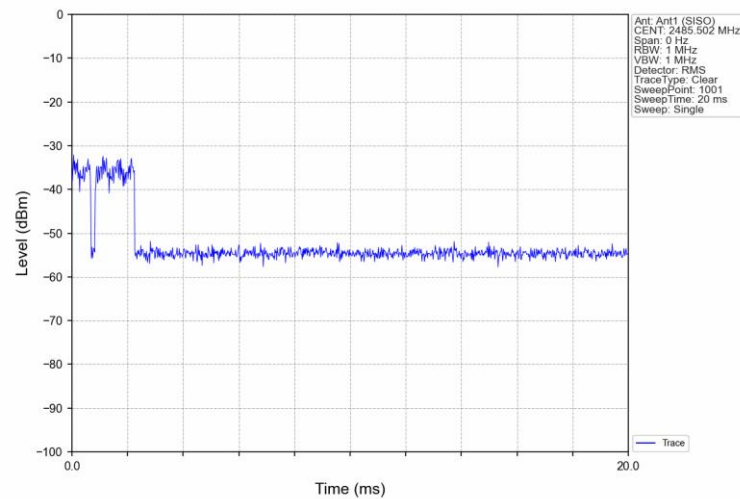


802.11g_2472MHz_Ant1 (SISO)_NTNV

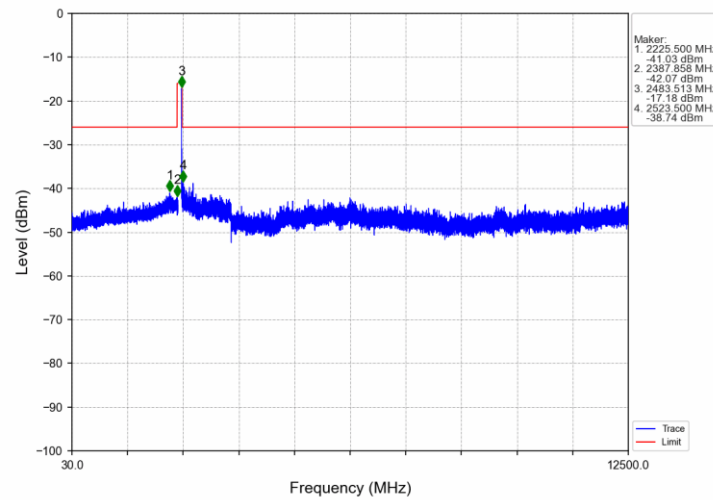


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2215.000	-41.03	/	-26	Pass
2387	2400	1	1	2397.439	-40.33	/	-16	Pass
2483.5	2496.5	1	1	2485.502	-15.17	-35.51	-16	Pass
2496.5	12500	1	1	2497.500	-38.15	/	-26	Pass

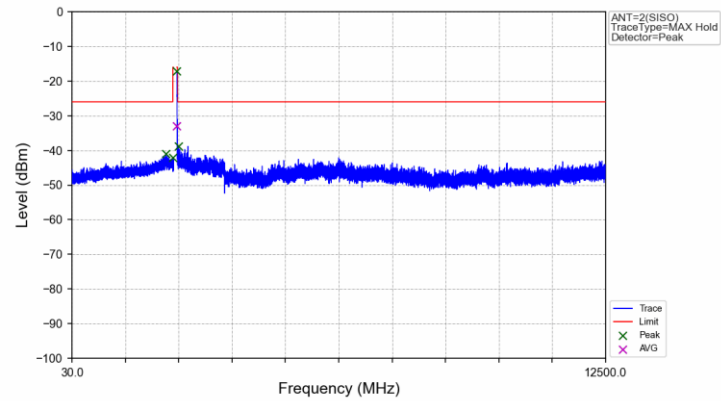
802.11g_2472MHz_Ant1 (SISO)_NTNV



802.11g_2472MHz_Ant2 (SISO)_NTNV

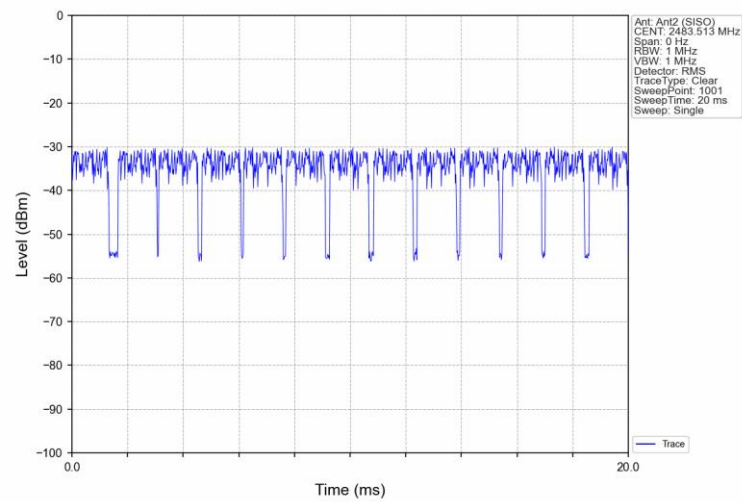


802.11g_2472MHz_Ant2 (SISO)_NTNV

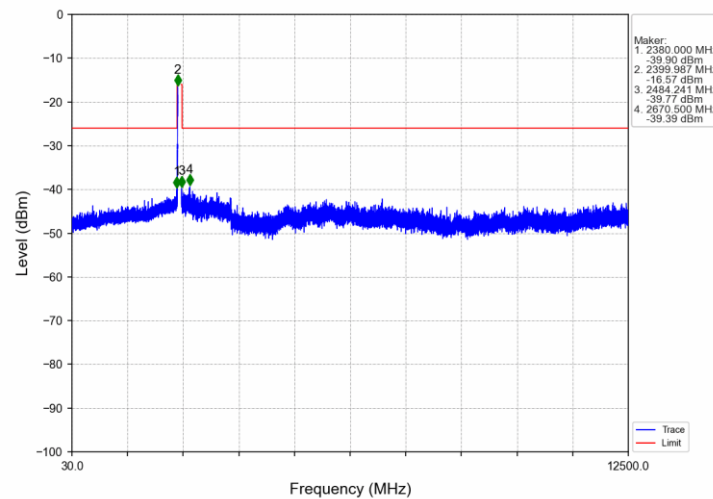


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2225.500	-41.03	/	-26	Pass
2387	2400	1	1	2387.858	-42.07	/	-16	Pass
2483.5	2496.5	1	1	2483.513	-17.18	-33.04	-16	Pass
2496.5	12500	1	1	2523.500	-38.74	/	-26	Pass

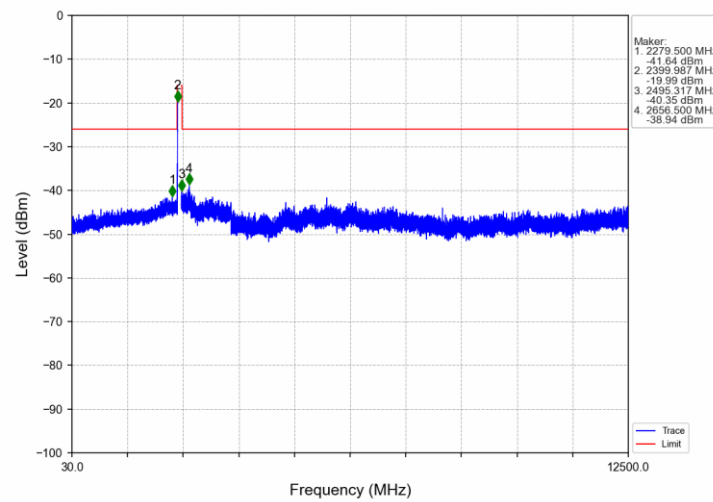
802.11g_2472MHz_Ant2 (SISO)_NTNV



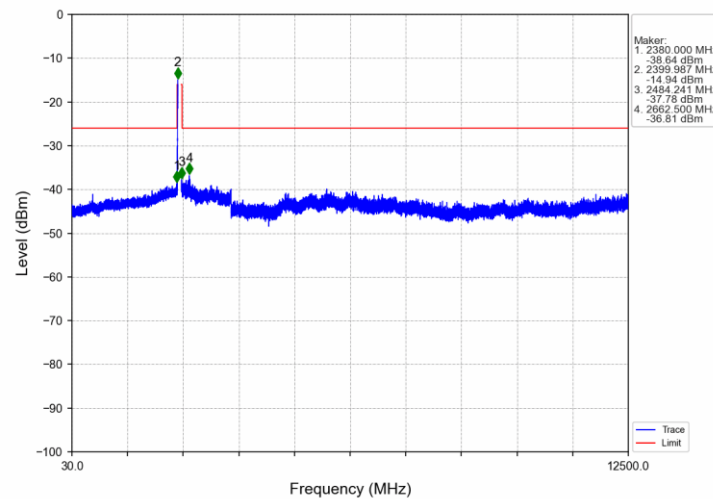
802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV



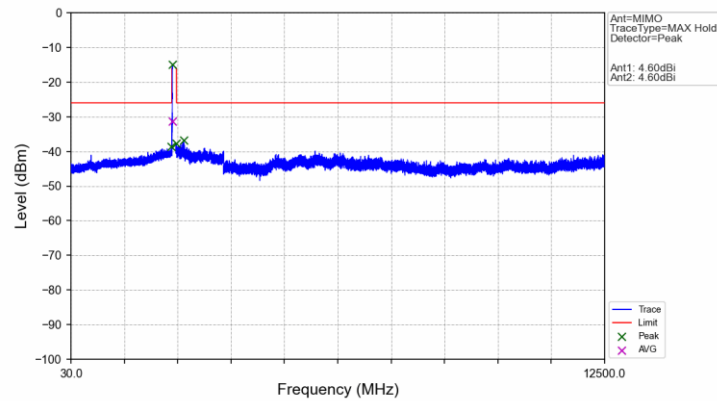
802.11n(HT20)_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2412MHz MIMO NTV

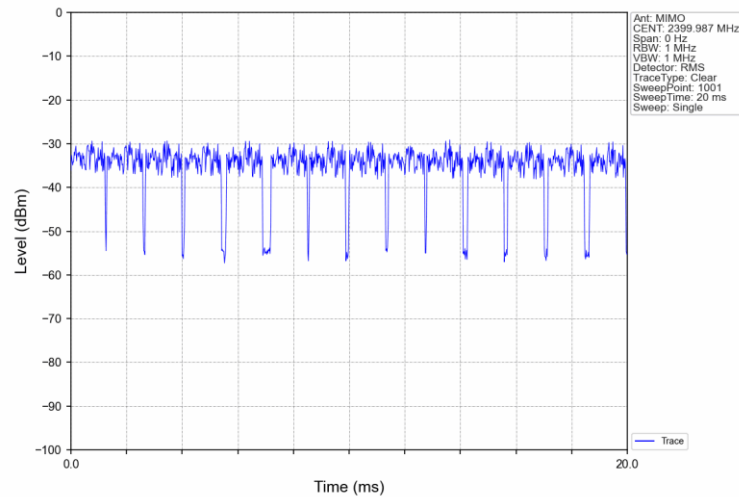


802.11n(HT20)_2412MHz_MIMO_NTNV

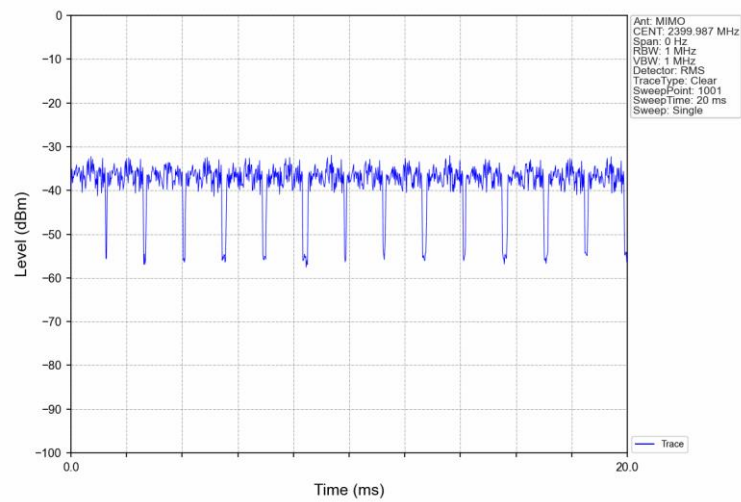


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2380.000	-38.64	/	-26	Pass
2387	2400	1	1	2399.987	-14.94	-31.31	-16	Pass
2400	2483.5	1	1	2484.241	-37.78	/	-16	Pass
2483.5	2496.5	1	1	2662.500	-36.81	/	-26	Pass

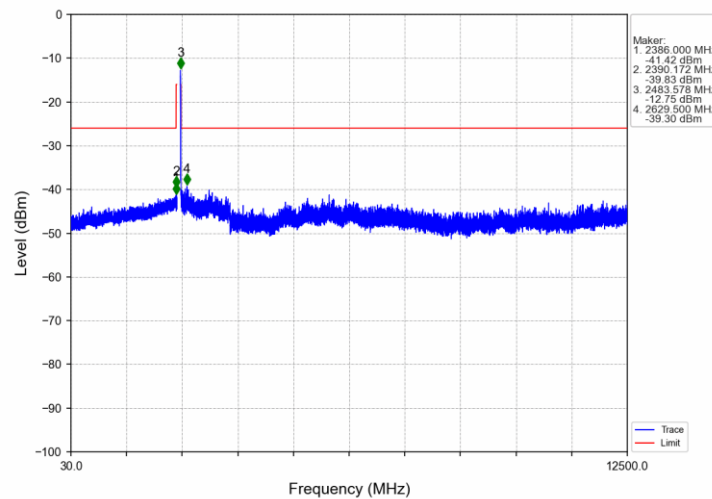
802.11n(HT20)_2412MHz_MIMO_NTNV



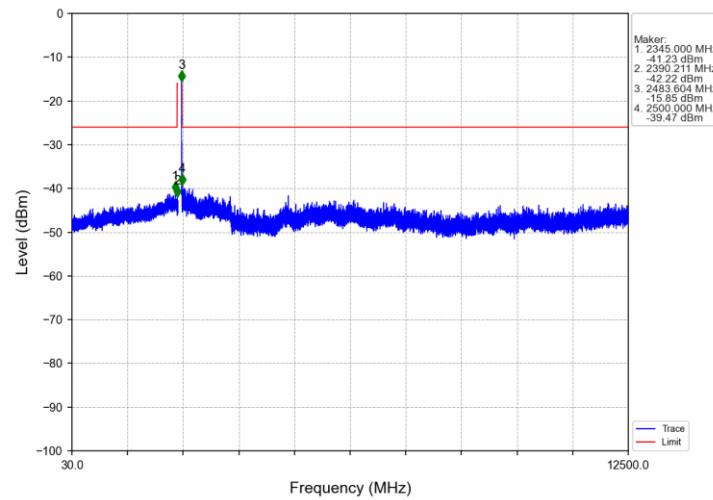
802.11n(HT20)_2412MHz_MIMO_NTNV



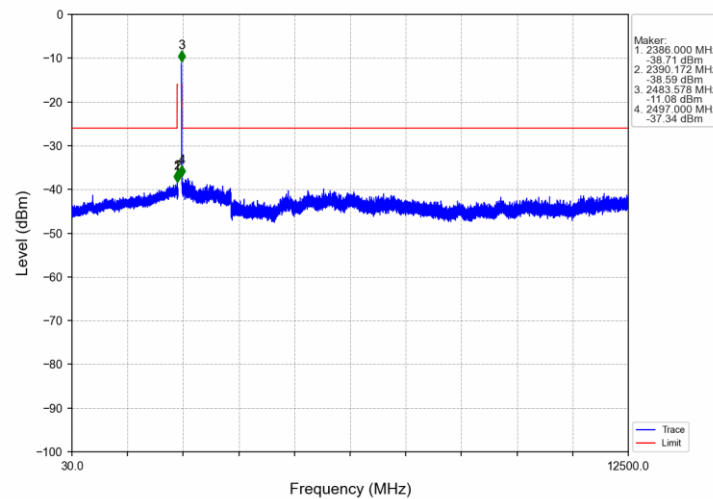
802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



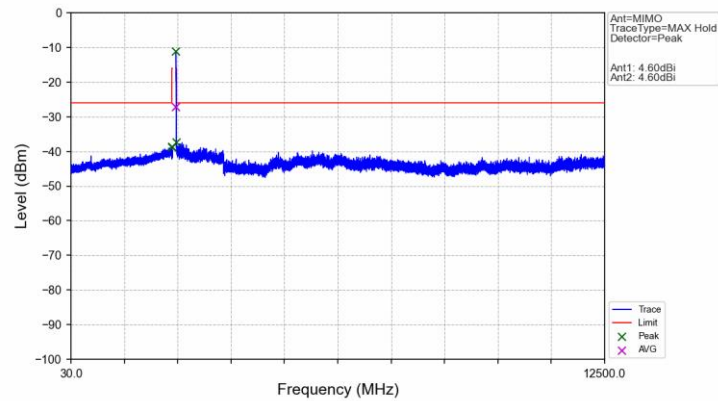
802.11n(HT20)_2472MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2472MHz MIMO NTNV

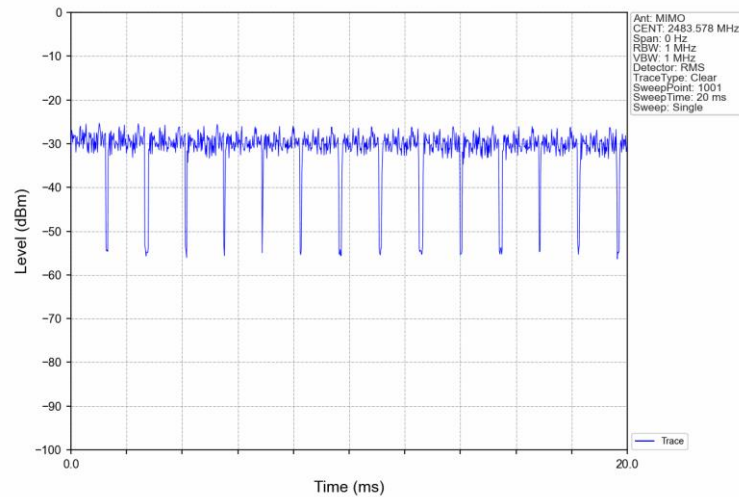


802.11n(HT20)_2472MHz_MIMO_NTNV

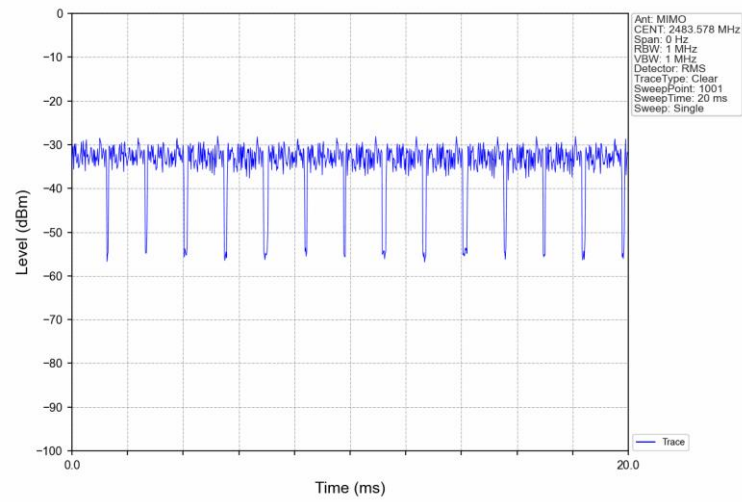


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2386.000	-38.71	/	-26	Pass
2387	2400	1	1	2390.172	-38.59	/	-16	Pass
2483.5	2496.5	1	1	2483.578	-11.08	-27.16	-16	Pass
2496.5	12500	1	1	2497.000	-37.34	/	-26	Pass

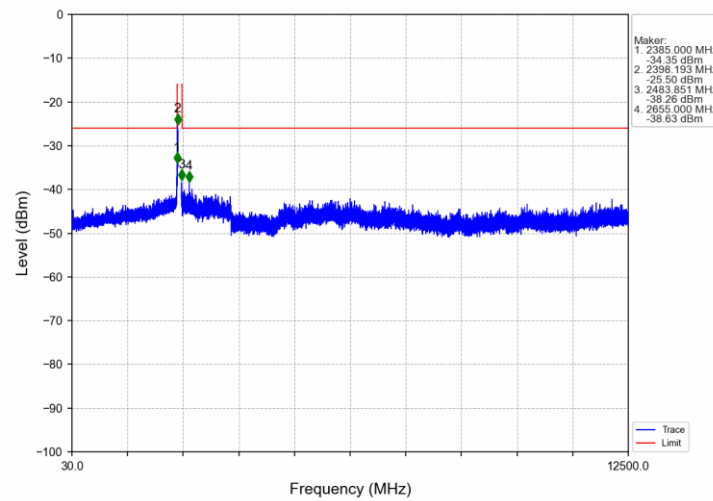
802.11n(HT20)_2472MHz_MIMO_NTNV



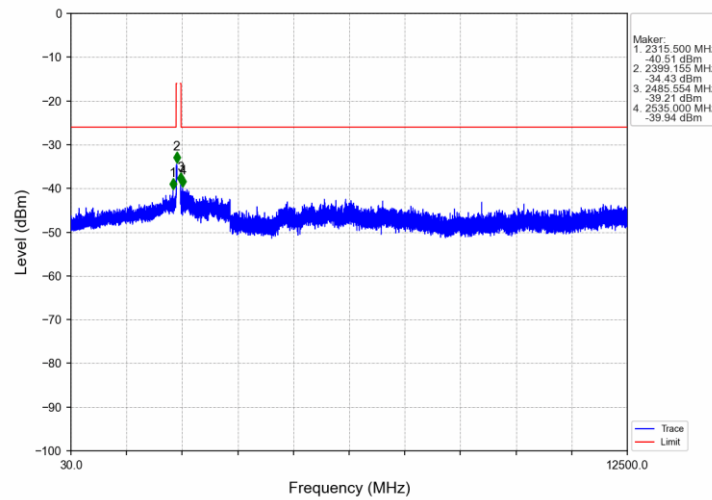
802.11n(HT20)_2472MHz_MIMO_NTNV



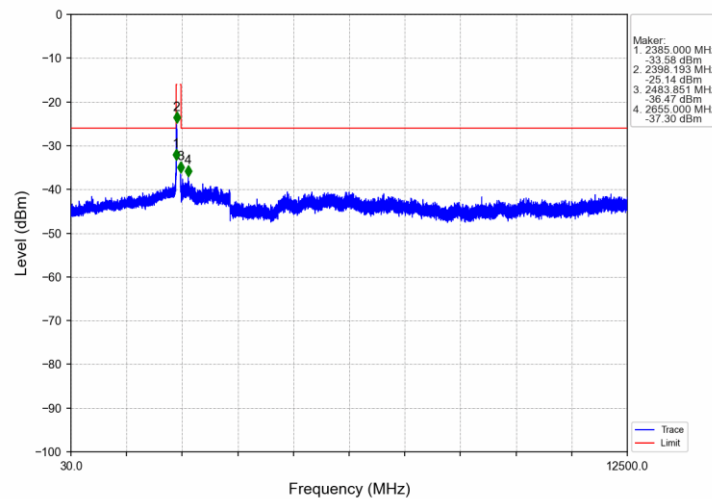
802.11n(HT40)_2422MHz_Ant1 (MIMO)_NTNV



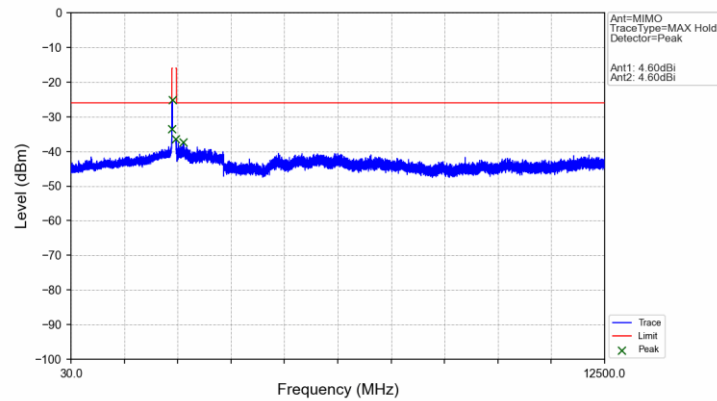
802.11n(HT40)_2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2422MHz MIMO NTV

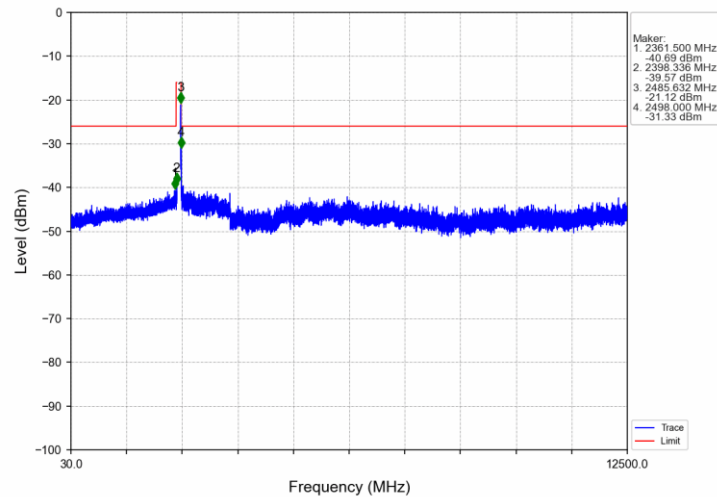


802.11n(HT40)_2422MHz_MIMO_NTNV

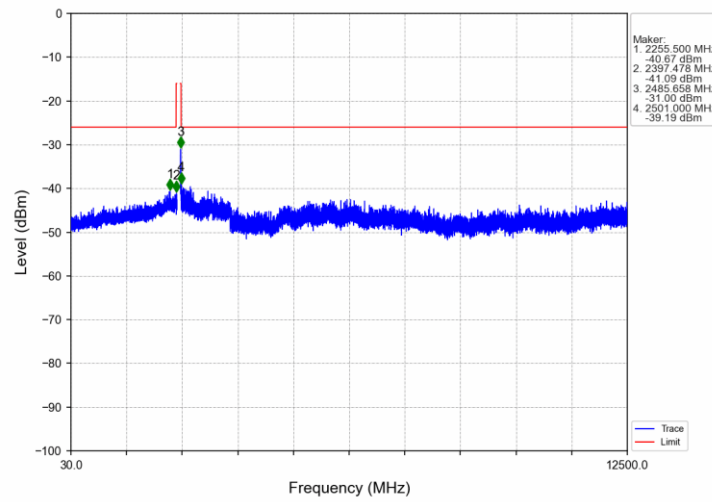


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2385.000	-33.58	/	-26	Pass
2387	2400	1	1	2398.193	-25.14	/	-16	Pass
2400	2496.5	1	1	2483.851	-36.47	/	-16	Pass
2496.5	12500	1	1	2655.000	-37.30	/	-26	Pass

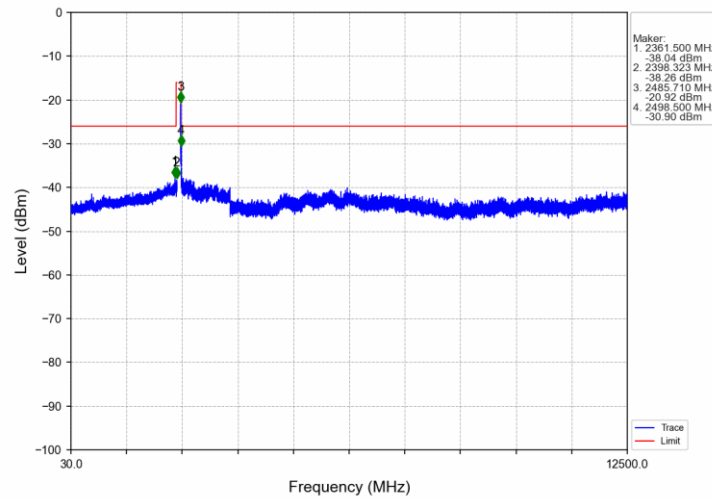
802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



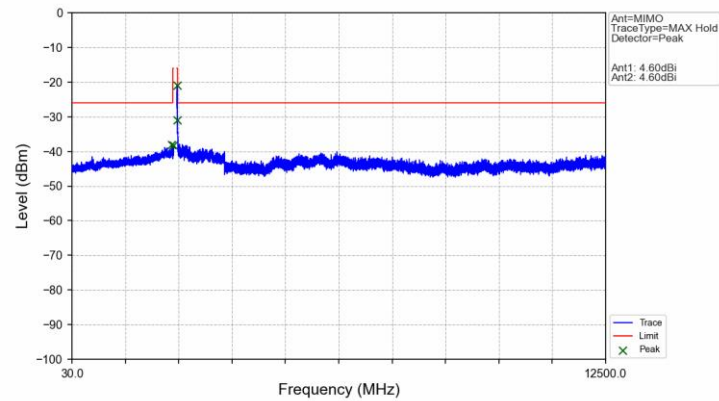
802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2462MHz MIMO NTNV



802.11n(HT40)_2462MHz_MIMO_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	2387	1	1	2361.500	-38.04	/	-26	Pass
2387	2400	1	1	2398.323	-38.26	/	-16	Pass
2483.5	2496.5	1	1	2485.710	-20.92	/	-16	Pass
2496.5	12500	1	1	2498.500	-30.90	/	-26	Pass

6. Secondary Radiated Emission

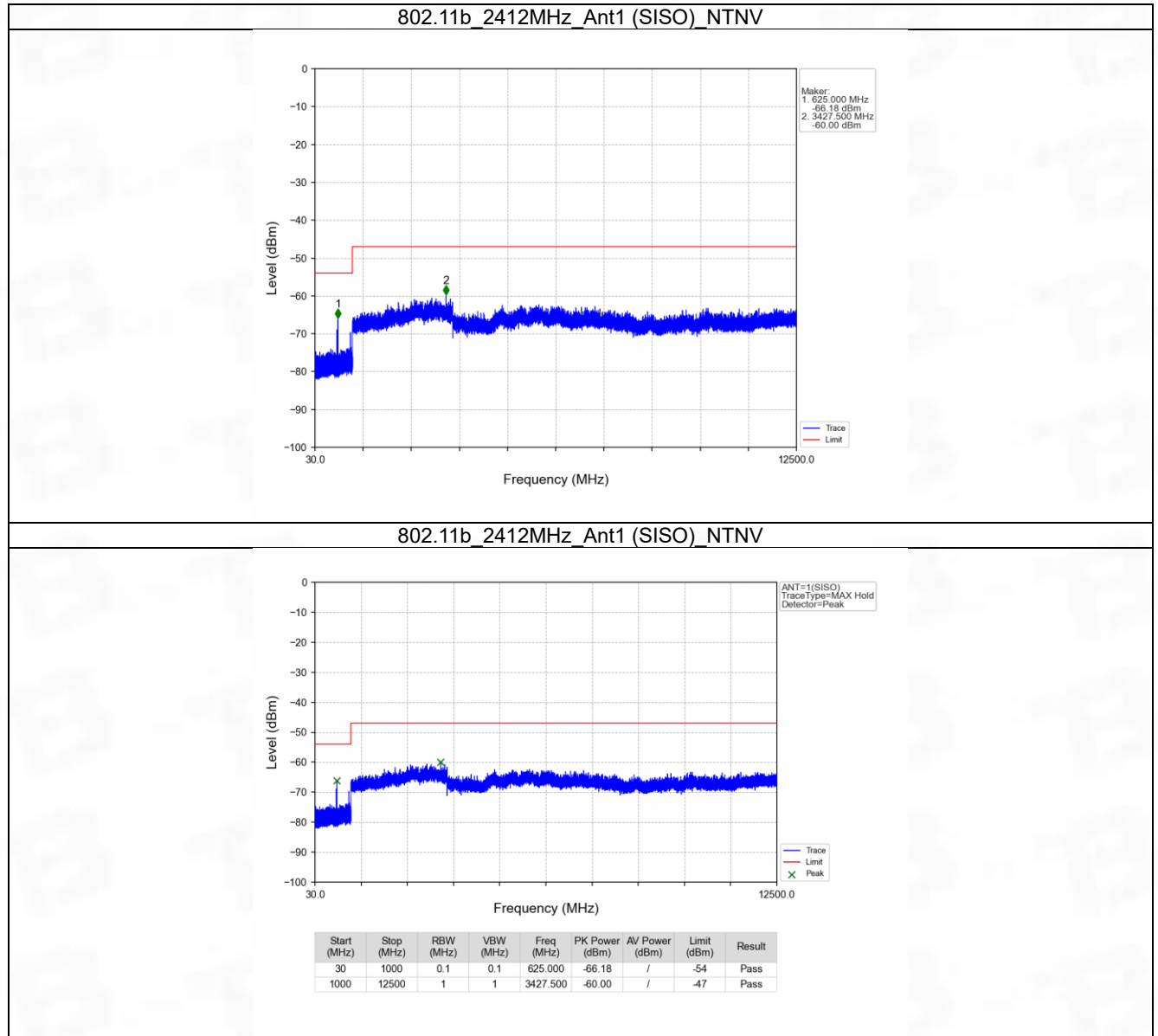
6.1 Test Result

6.1.1 RxSe_NTNV

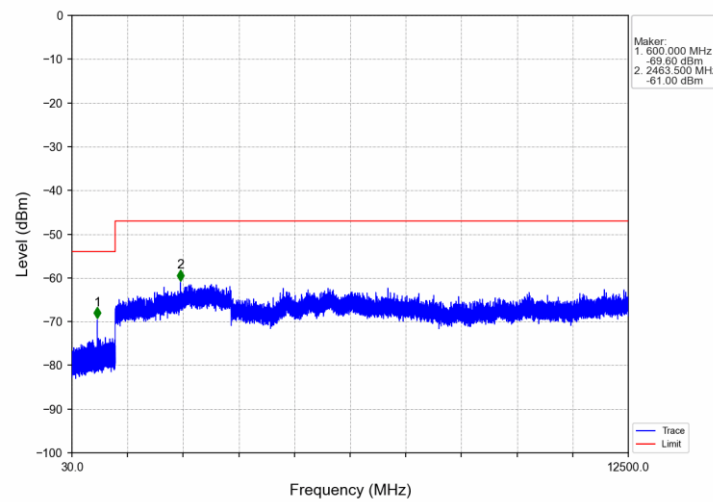
NTNV												
Mode	TX Type	Freq. (MHz)	ANT	Freq. Range		Marker					Limit (nW)	Verdict
				Start (MHz)	Stop (MHz)	Freq. (MHz)	PK Power (dBm)	PK Power (nW)	AV Power (dBm)	AV Power (nW)		
802.11b	SISO	2412	1	30	1000	625	-66.18	0.241	/	/	4	Pass
				1000	12500	3427.5	-60.00	1.000	/	/	20	Pass
			2	30	1000	600	-69.60	0.110	/	/	4	Pass
				1000	12500	2463.5	-61.00	0.794	/	/	20	Pass
		2472	1	30	1000	625	-66.48	0.225	/	/	4	Pass
				1000	12500	3283.5	-59.55	1.109	/	/	20	Pass
			2	30	1000	600.05	-68.99	0.126	/	/	4	Pass
				1000	12500	3191.5	-60.75	0.841	/	/	20	Pass
802.11g	SISO	2412	1	30	1000	625	-66.36	0.231	/	/	4	Pass
				1000	12500	2787	-60.19	0.957	/	/	20	Pass
			2	30	1000	600	-69.68	0.108	/	/	4	Pass
				1000	12500	3291	-59.98	1.005	/	/	20	Pass
		2472	1	30	1000	625	-65.54	0.279	/	/	4	Pass
				1000	12500	3280.5	-60.00	1.000	/	/	20	Pass
			2	30	1000	600	-68.82	0.131	/	/	4	Pass
				1000	12500	2659	-60.85	0.822	/	/	20	Pass
802.11n (HT20)	MIMO	2412	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	1000	625	-65.15	0.305	/	/	4	Pass
				1000	12500	2460.5	-58.75	1.334	/	/	20	Pass
		2472	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	1000	625	-65.15	0.305	/	/	4	Pass
				1000	12500	3029	-58.80	1.318	/	/	20	Pass
802.11n (HT40)	MIMO	2422	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	1000	625	-65.86	0.259	/	/	4	Pass
				1000	12500	2610.5	-58.17	1.524	/	/	20	Pass
		2462	1	/	/	/	/	/	/	/	/	Pass
			2	/	/	/	/	/	/	/	/	Pass
			MIMO	30	1000	600	-65.79	0.264	/	/	4	Pass
				1000	12500	2630.5	-57.44	1.803	/	/	20	Pass

6.2 Test Graph

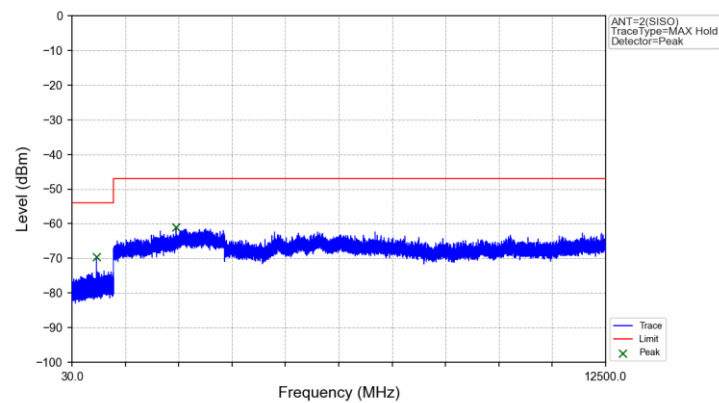
6.2.1 RxSe_NTNV



802.11b_2412MHz_Ant2 (SISO)_NTNV

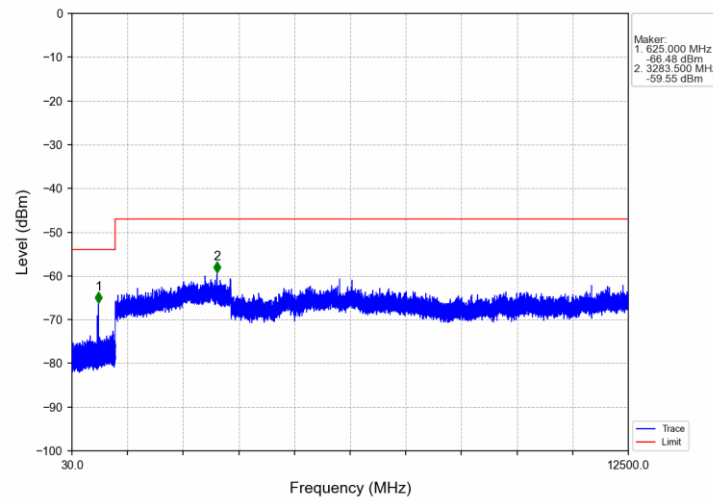


802.11b_2412MHz_Ant2 (SISO)_NTNV

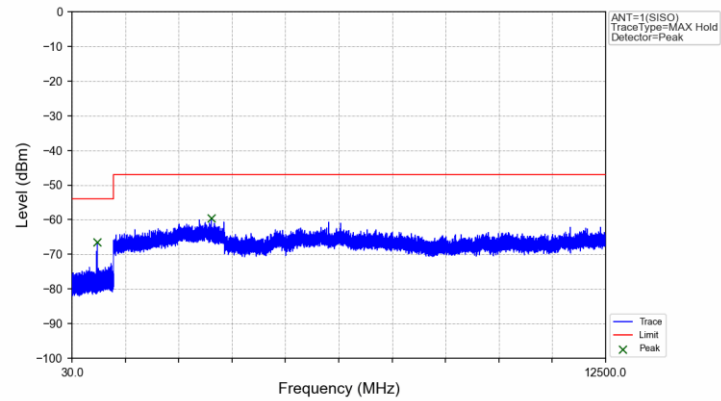


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	600.000	-69.60	/	-54	Pass
1000	12500	1	1	2463.500	-61.00	/	-47	Pass

802.11b_2472MHz_Ant1 (SISO)_NTNV

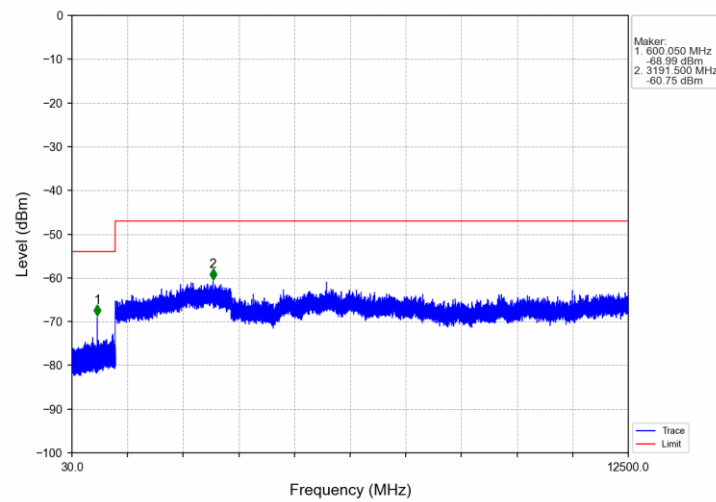


802.11b_2472MHz_Ant1 (SISO)_NTNV

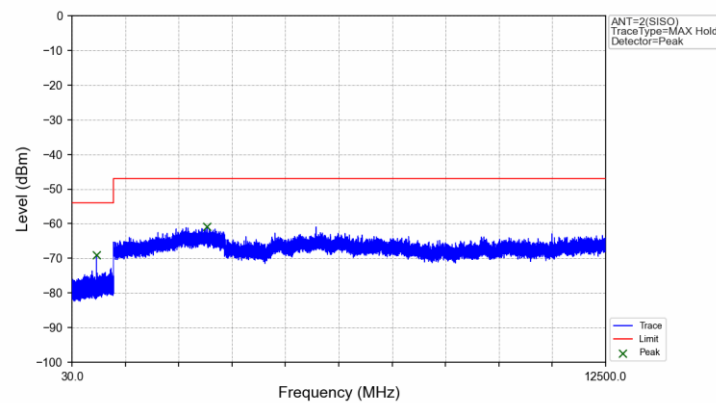


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-66.48	/	-54	Pass
1000	12500	1	1	3283.500	-59.55	/	-47	Pass

802.11b_2472MHz_Ant2 (SISO)_NTNV

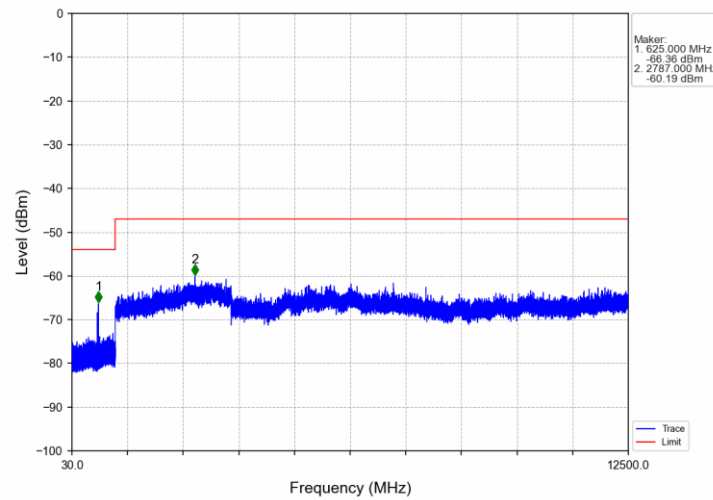


802.11b_2472MHz_Ant2 (SISO)_NTNV

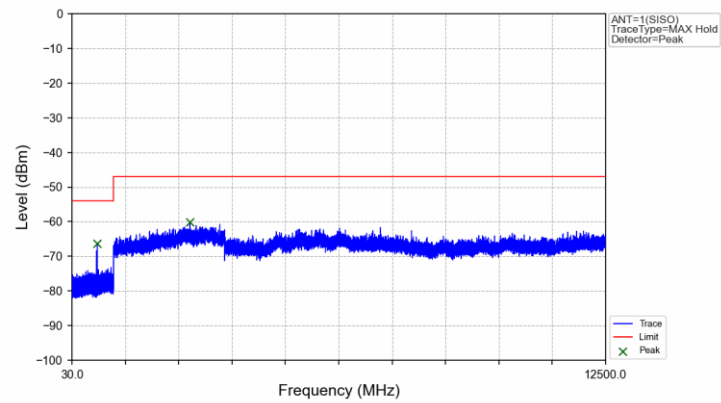


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	600.050	-68.99	/	-54	Pass
1000	12500	1	1	3191.500	-60.75	/	-47	Pass

802.11g_2412MHz_Ant1 (SISO)_NTNV

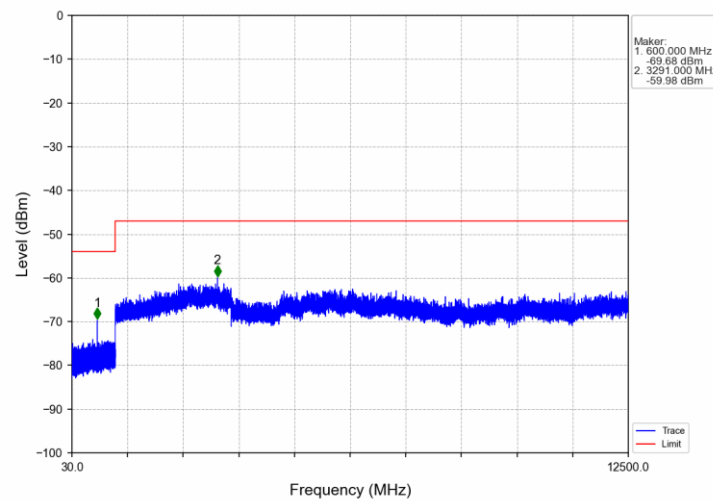


802.11g_2412MHz_Ant1 (SISO)_NTNV

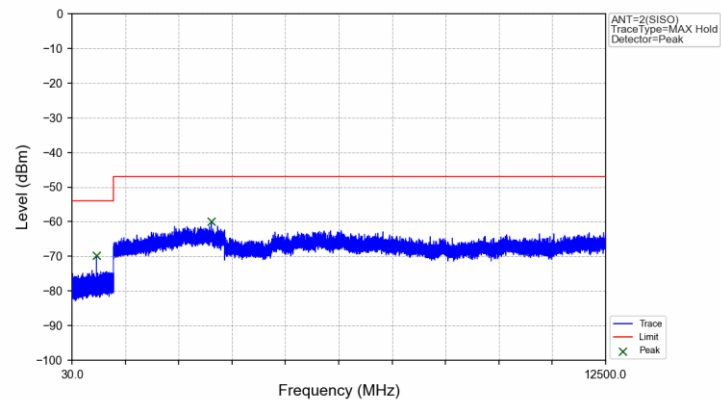


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-66.36	/	-54	Pass
1000	12500	1	1	2787.000	-60.19	/	-47	Pass

802.11g_2412MHz_Ant2 (SISO)_NTNV

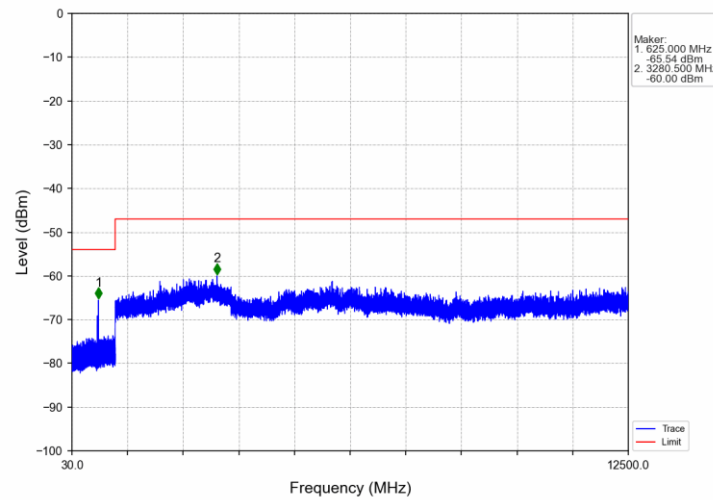


802.11g_2412MHz_Ant2 (SISO)_NTNV

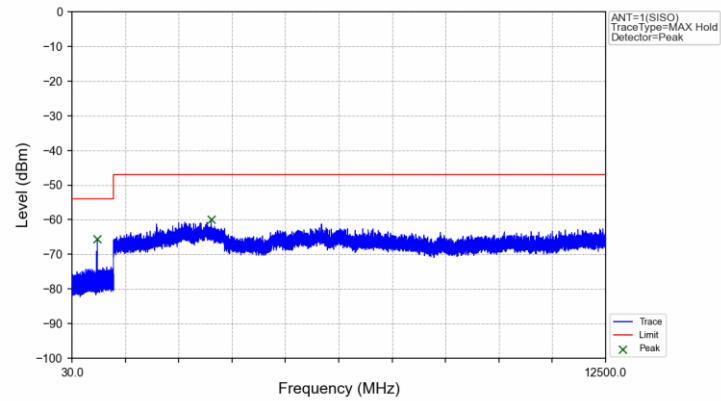


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	600.000	-69.68	/	-54	Pass
1000	12500	1	1	3291.000	-59.98	/	-47	Pass

802.11g_2472MHz_Ant1 (SISO)_NTNV

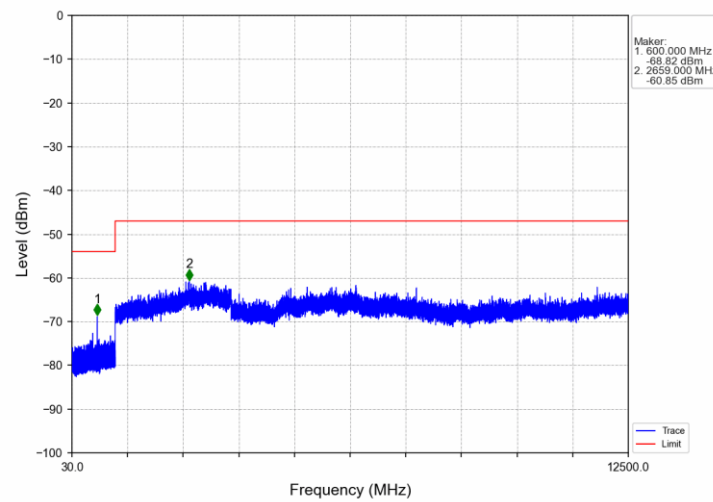


802.11g_2472MHz_Ant1 (SISO)_NTNV

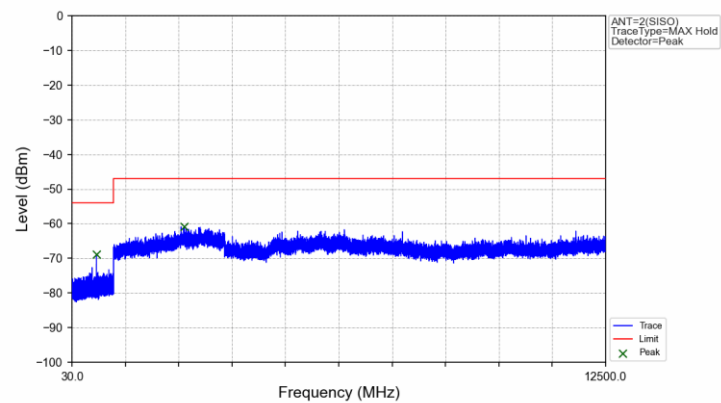


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-65.54	/	-54	Pass
1000	12500	1	1	3280.500	-60.00	/	-47	Pass

802.11g_2472MHz_Ant2 (SISO)_NTNV

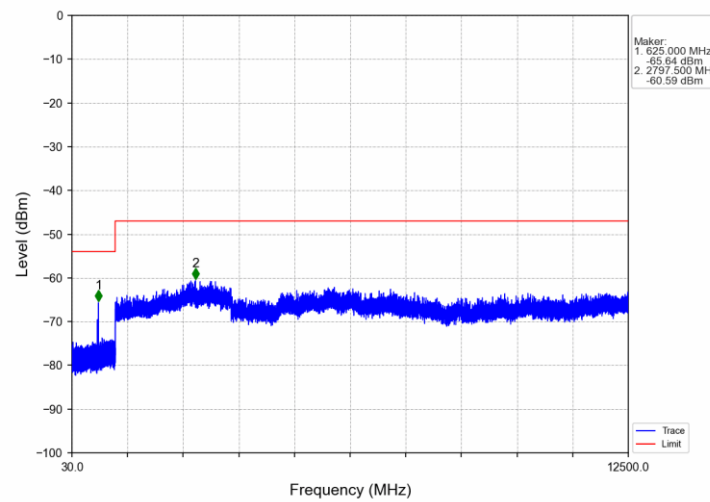


802.11g_2472MHz_Ant2 (SISO)_NTNV

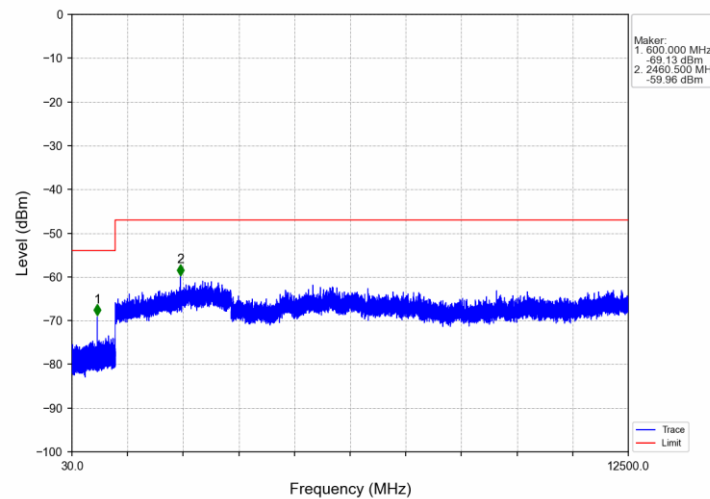


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	600.000	-68.82	/	-54	Pass
1000	12500	1	1	2659.000	-60.85	/	-47	Pass

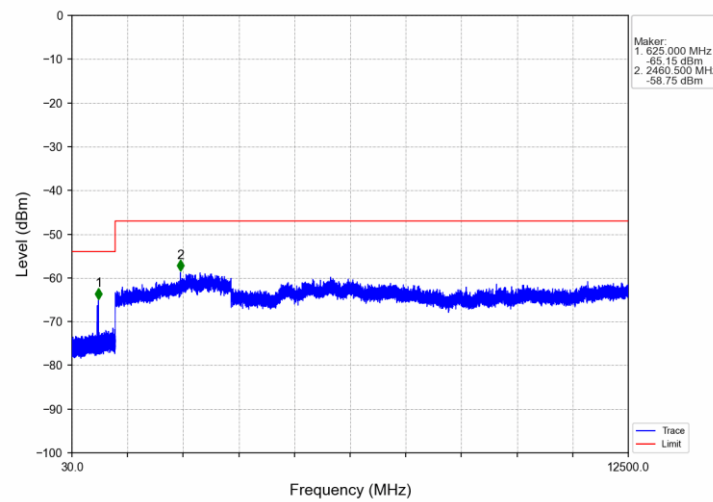
802.11n(HT20)_2412MHz_Ant1 (MIMO)_NTNV



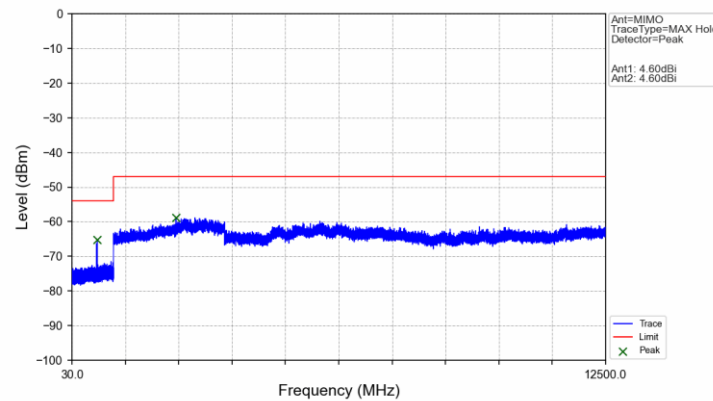
802.11n(HT20)_2412MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2412MHz_MIMO_NTNV

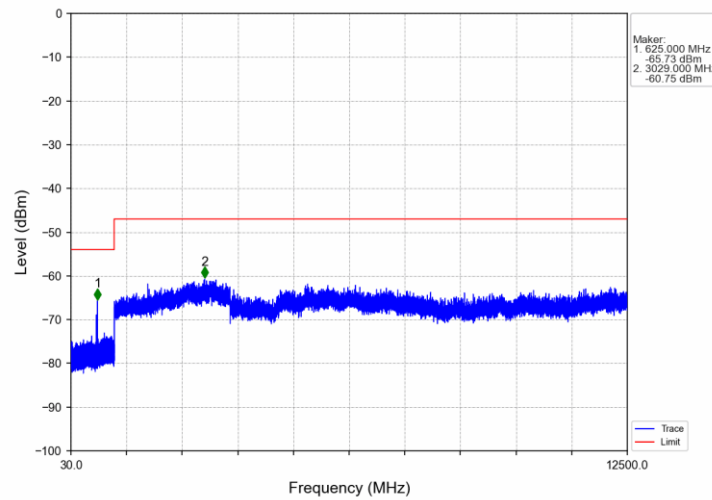


802.11n(HT20)_2412MHz_MIMO_NTNV

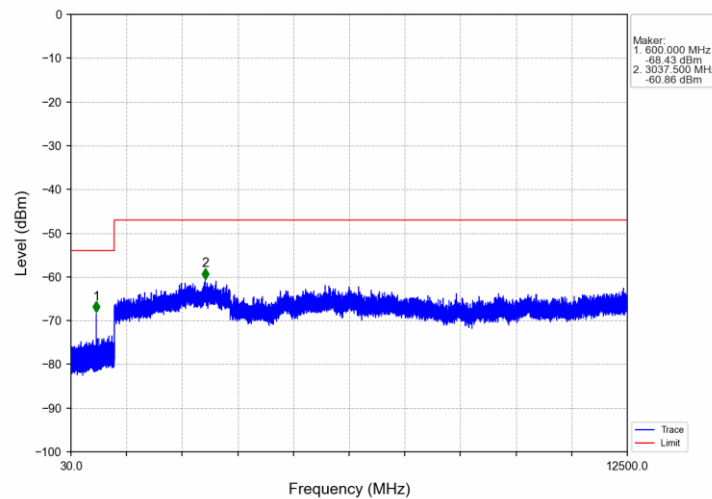


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-65.15	/	-54	Pass
1000	12500	1	1	2460.500	-58.75	/	-47	Pass

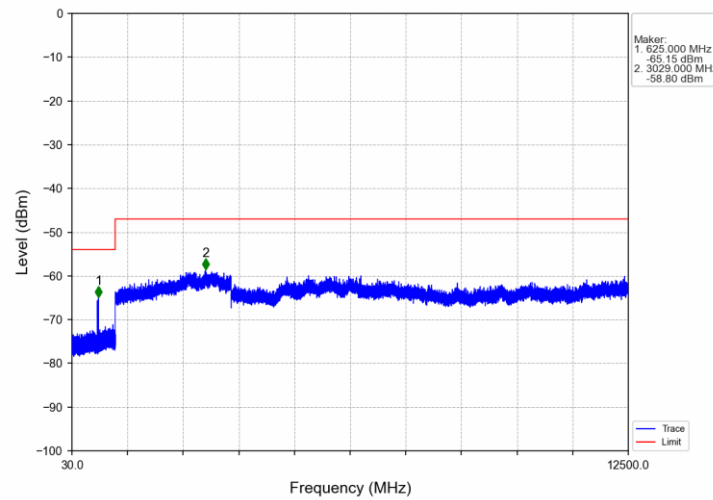
802.11n(HT20)_2472MHz_Ant1 (MIMO)_NTNV



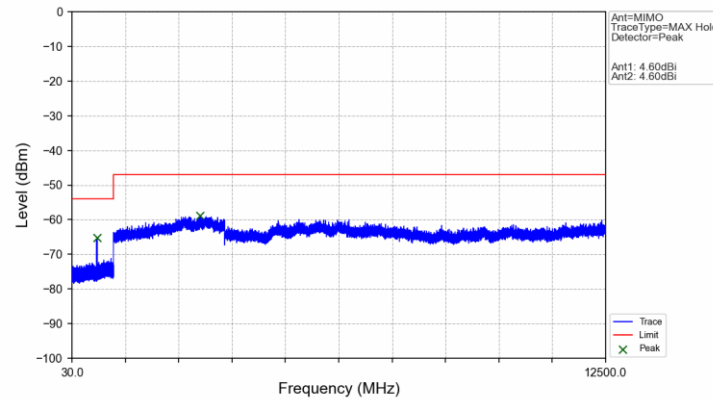
802.11n(HT20)_2472MHz_Ant2 (MIMO)_NTNV



802.11n(HT20)_2472MHz_MIMO_NTNV

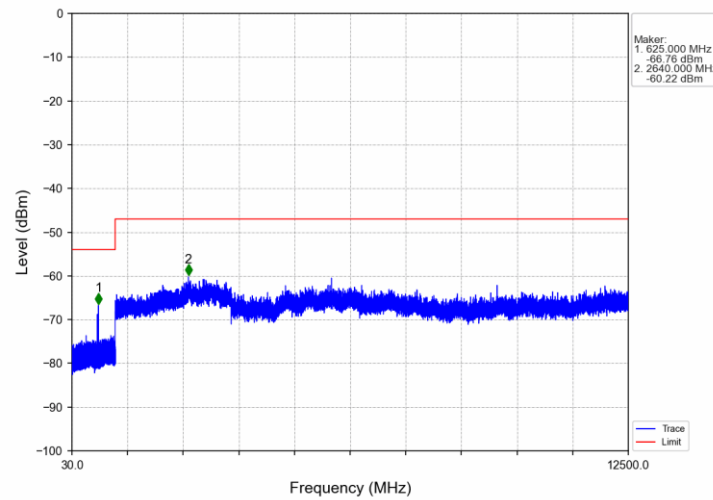


802.11n(HT20)_2472MHz_MIMO_NTNV

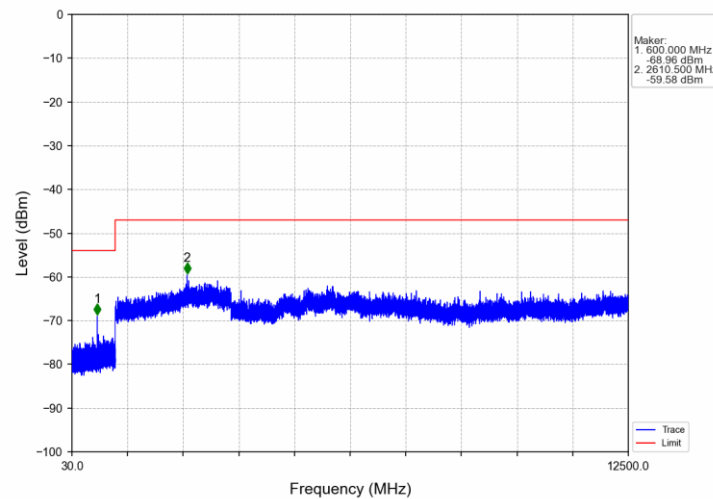


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-65.15	/	-54	Pass
1000	12500	1	1	3029.000	-58.80	/	-47	Pass

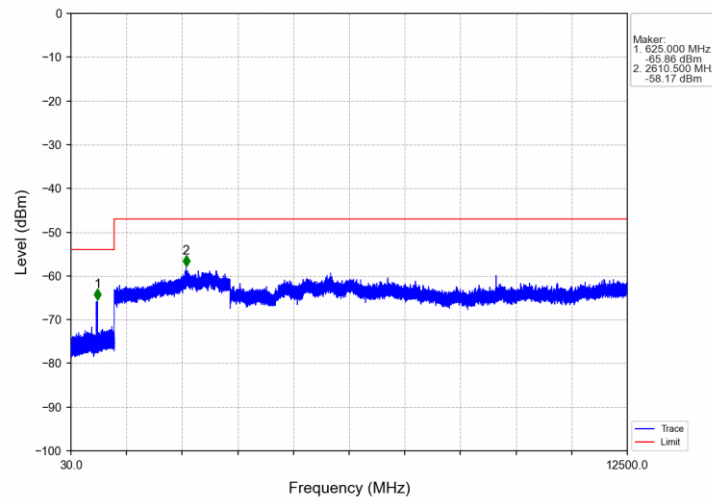
802.11n(HT40) 2422MHz_Ant1 (MIMO)_NTNV



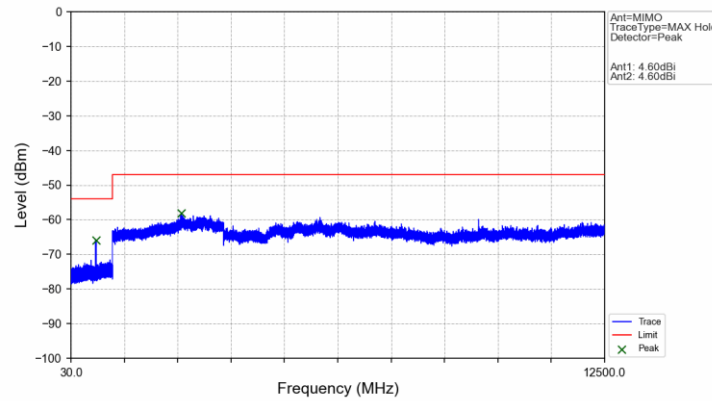
802.11n(HT40) 2422MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2422MHz_MIMO_NTNV

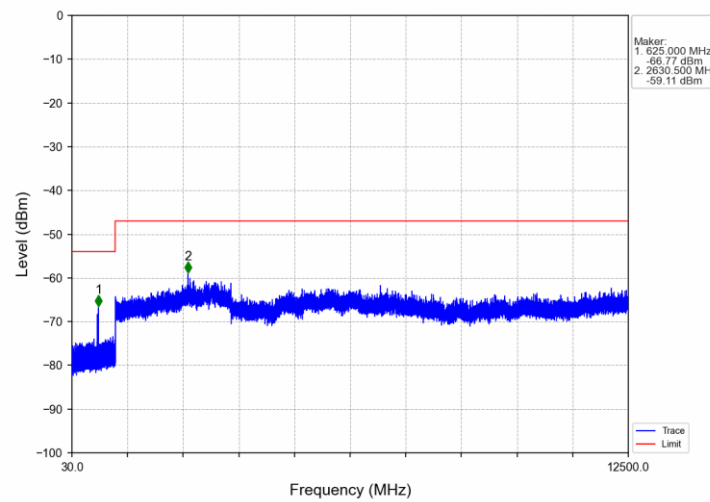


802.11n(HT40)_2422MHz_MIMO_NTNV

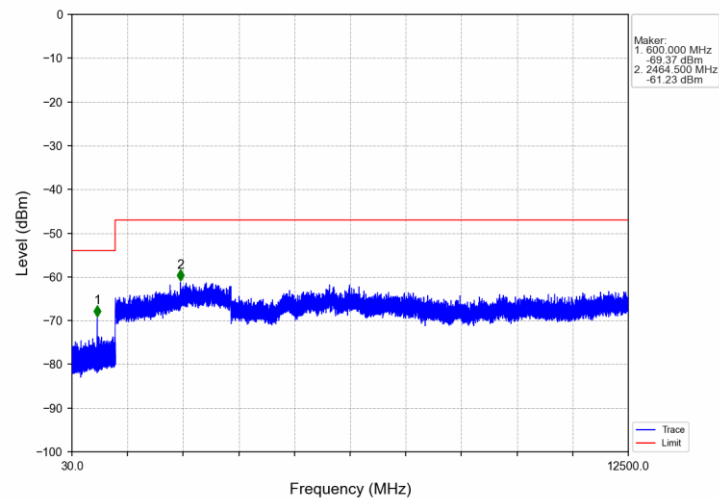


Start (MHz)	Stop (MHz)	RBW (MHz)	VBW (MHz)	Freq (MHz)	PK Power (dBm)	AV Power (dBm)	Limit (dBm)	Result
30	1000	0.1	0.1	625.000	-65.86	/	-54	Pass
1000	12500	1	1	2610.500	-58.17	/	-47	Pass

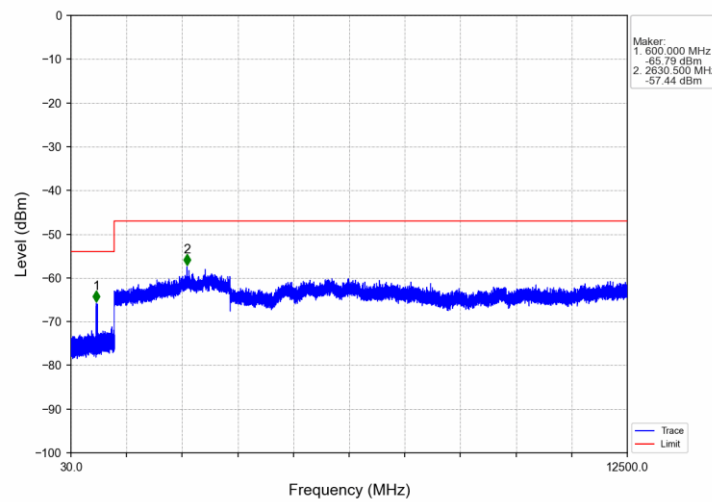
802.11n(HT40)_2462MHz_Ant1 (MIMO)_NTNV



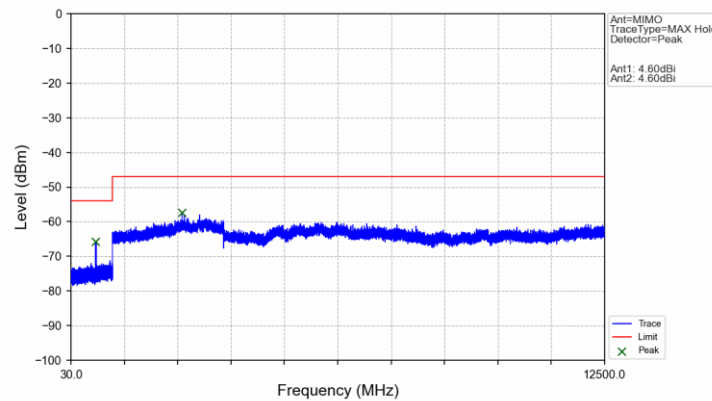
802.11n(HT40)_2462MHz_Ant2 (MIMO)_NTNV



802.11n(HT40)_2462MHz_MIMO_NTNV



802.11n(HT40)_2462MHz_MIMO_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	600.000	-65.79	/	-54	Pass
1000	12500	1	1	2630.500	-57.44	/	-47	Pass



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