

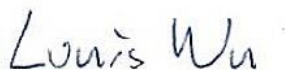


FCC RADIO TEST REPORT

FCC ID : 2AGOZ-NU4
Equipment : SMART GLASSES
Brand Name : 
Model Name : NU4, Aria Gen 2
Applicant : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Manufacturer : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Dec. 12, 2024 and testing was performed from Jan. 01, 2025 to Mar. 19, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR472626F	01	Initial issue of report	Mar. 27, 2025
FR472626F	02	Revise section 1.1.1, section 2.1, section 3.5.6, appendix A, appendix C, and appendix D This report is an updated version, replacing the report issued on Mar. 27, 2025.	Jul. 15, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(7)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	-
3.6	15.407(b)	Unwanted Emissions	Pass	-
3.7	15.207	AC Conducted Emission	Pass	-
3.8	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

1. The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
2. The purpose of different model name is for marketing segmentation.

Reviewed by: Avis Chuang

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11ax, Sub 1GHz and GNSS.	
Antenna Type WLAN: <Ant. 0>: IFA Antenna <Ant. 1>: IFA Antenna	
Sample 1	L sku
Sample 2	S sku

Antenna information (L sku)		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 0: 4.93 Ant. 1: 2.48
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Ant. 0: 4.98 Ant. 1: 2.33
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 0: 4.99 Ant. 1: 3.47
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	Ant. 0: 3.90 Ant. 1: 3.22

Antenna information (S sku)		
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 0: 3.27 Ant. 1: 3.01
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Ant. 0: 4.41 Ant. 1: 3.45
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 0: 4.53 Ant. 1: 3.70
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	Ant. 0: 3.49 Ant. 1: 1.79

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{ANT}]$ dBi

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

The directional gain "DG" is calculated as following table.

		Ant 0	Ant 1	DG for Power	DG for PSD
		(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	Sample 1 (L sku)	4.93	2.48	3.88	6.80
5925 MHz ~ 6425 MHz	Sample 2 (S sku)	3.27	3.01	3.14	6.15
6425 MHz ~ 6525 MHz	Sample 1 (L sku)	4.98	2.33	3.85	6.77
6425 MHz ~ 6525 MHz	Sample 2 (S sku)	4.41	3.45	3.96	6.95
6525 MHz ~ 6875 MHz	Sample 1 (L sku)	4.99	3.47	4.30	7.27
6525 MHz ~ 6875 MHz	Sample 2 (S sku)	4.53	3.70	4.13	7.14
6875 MHz ~ 7125 MHz	Sample 1 (L sku)	3.90	3.22	3.57	6.58
6875 MHz ~ 7125 MHz	Sample 2 (S sku)	3.49	1.79	2.72	5.69

Calculation example:

If a device has two antenna, $G_{ANT0} = 4.93$ dBi; $G_{ANT2} = 2.48$ dBi

Directional gain of Power derived from formula which is

$$10 \times \log \left\{ \left[10^{(4.93 \text{ dBi} / 10)} + 10^{(2.48 \text{ dBi} / 10)} \right] / 2 \right\} = 3.88 \text{ dBi}$$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[\left(10^{(4.93 \text{ dBi} / 20)} + 10^{(2.48 \text{ dBi} / 20)} \right) \right] ^ 2 \right\} / 2 = 6.80 \text{ dBi}$$

Remark:

1. There are six SKUs, mainly divided into two groups: L-SKU (LSL, LSH, and LLH) and S-SKU (SSL, SLL, and SLH). The difference between the two groups is in the design of the front frame, temple arms, and nose pad. The L-SKU groups share Antenna performance 1 while the S-SKU groups share Antenna performance 2.
2. -For conducted testing, the highest gain condition in two antenna groups was used to ensure compliance in all SKUs.
3. -For radiated testing, we fully tested the antenna configuration with the highest gain in both groups of antennas. We also spot-checked another antenna configuration to ensure compliance in both groups.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, CO07-HY, 03CH11-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, , the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							

BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							



BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							



BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225				229			
	Freq. (MHz)	7075				7095			
BW 40M	Channel	227							
	Freq. (MHz)	7085							

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

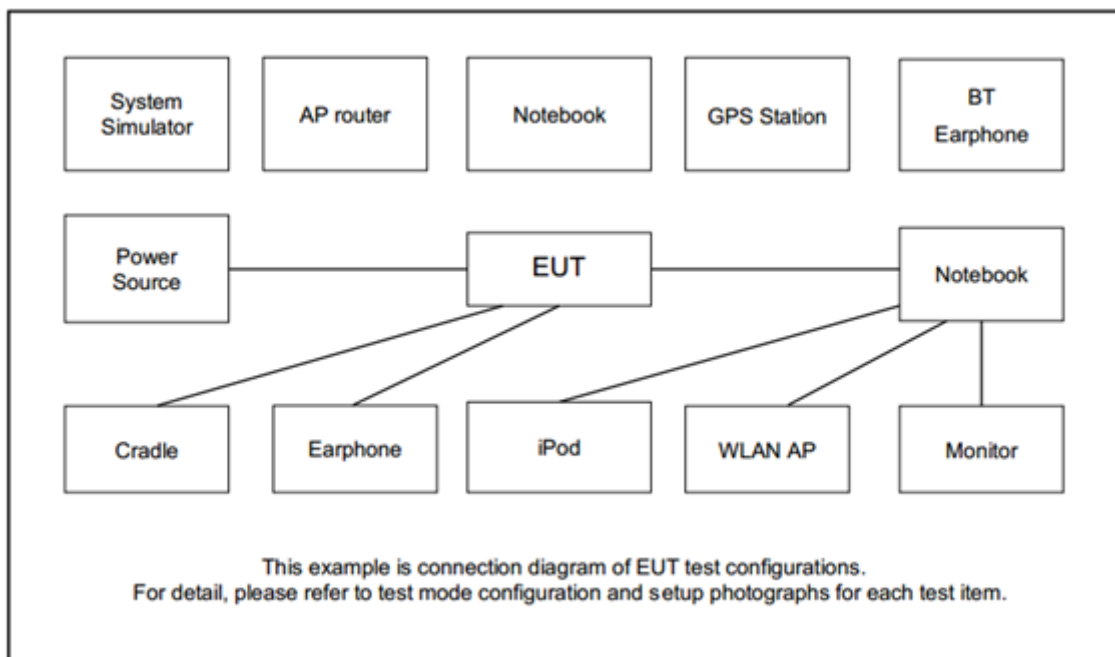
MIMO Mode

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : 11ax_HE160_Channel 111 TX + USB Cable (Charging from Adapter) for Sample 1
Remark: - The detailed Radiated test modes are shown in Appendix C. - For radiated test cases, according to antenna gain assessment and RSE pre-scan results on both SKUs, the worst condition is Sample 1 and the full test performed on it. - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	AC Adapter	Salcomp	MA0122	N/A	N/A	N/A
2.	USB cable	Cabletech	872-00270-01	N/A	Unshielded, 1m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.118.1" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

For channels with a nominal bandwidth less than 320 Mhz, (e.g., 20, 40, 80, and 160 MHz), compliance is demonstrated by way of the 26 dB EBW.

For channels with a nominal bandwidth of 320 MHz, compliance is demonstrated by way of the 99% BW.

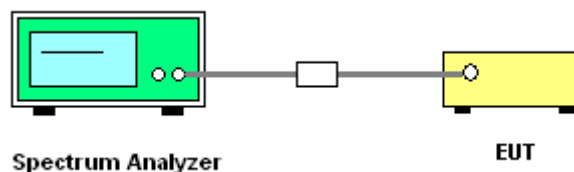
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

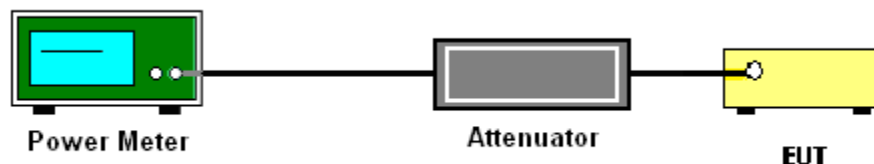
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band,

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

(a)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

Method SA-2

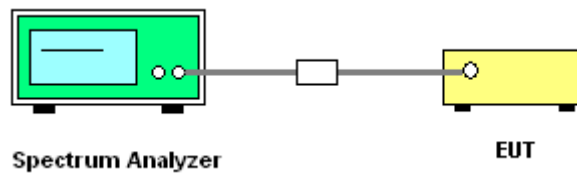
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

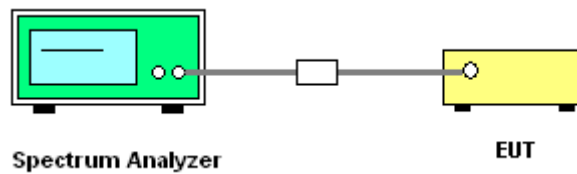
The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

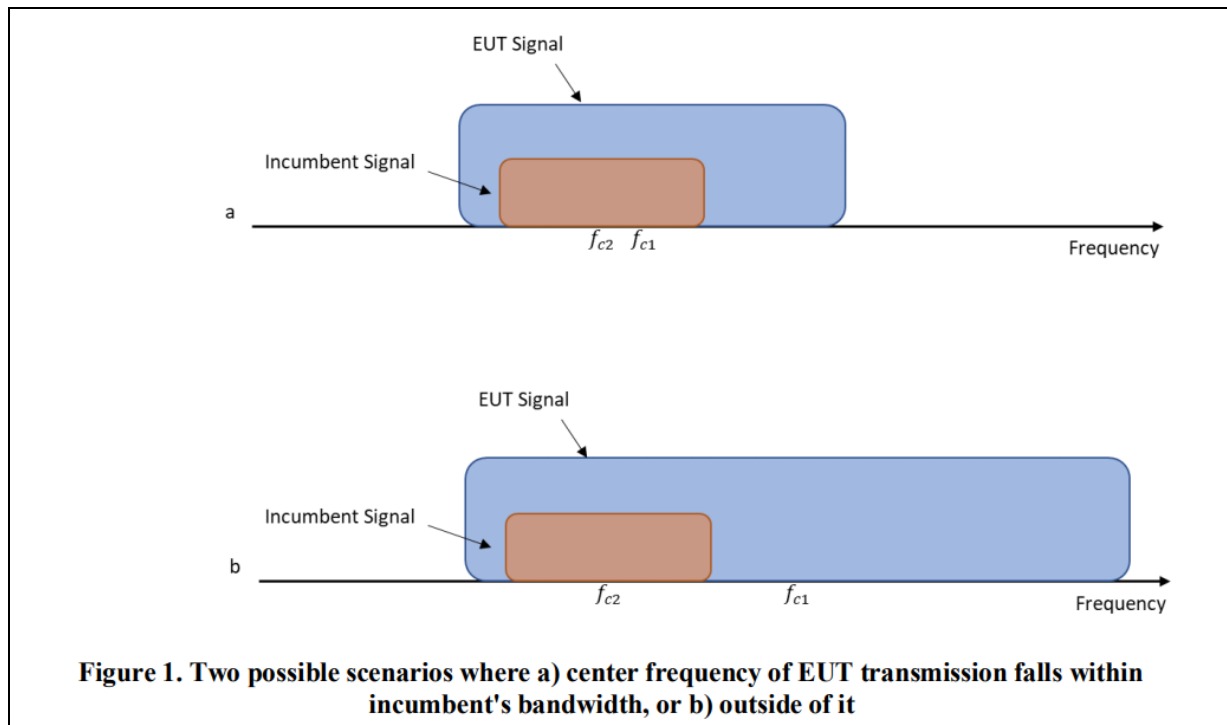
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

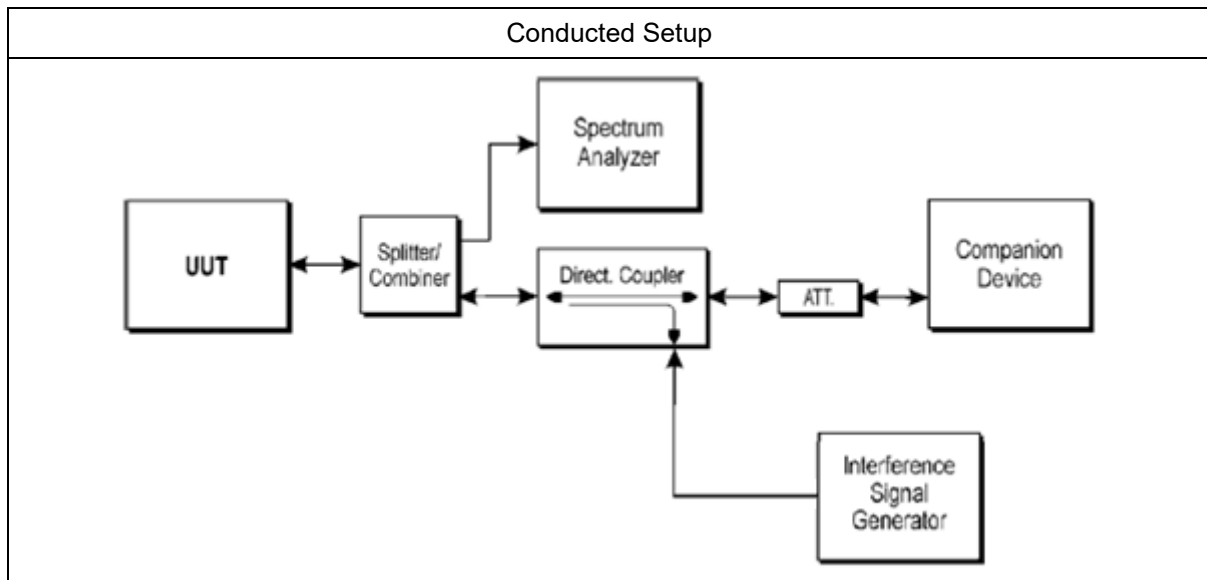
Section I) Contention Based Protocol

Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.5.4 Test Setup



3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	RT-BE92U	Tri-Band Wi-Fi 7 Router
Notebook	DELL	Latitude 3400	LAN

3.5.6 Antenna gain for Contention Based Protocol Test

CBP Antenna Gain	<UNII-5>: 2.48 dBi <UNII-6>: 2.33 dBi <UNII-7>: 3.47 dBi <UNII-8>: 1.79 dBi
------------------	--

Note : For CBP testing, the lowest gain condition in two antenna groups was used to ensure compliance in all SKUs.



3.5.7 Test Summary of Contention Based Protocol Test

Test Engineer :	Ivy Yeh	Temperature :	20.2 ~ 22.8°C
		Relative Humidity :	50.2 ~ 53.4%

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-80.41	100	-62	-82.89	20.89
				Result: Stop Transmission				
				-83.41	< 90	-62	-85.89	23.89
				Result: Minimal Operation				
				-84.41	0	-62	-86.89	24.89
				Result: Normal Operation				
	6185	160	6110	-73.98	100	-62	-76.46	14.46
				Result: Stop Transmission				
				-76.98	< 90	-62	-79.46	17.46
				Result: Minimal Operation				
				-77.98	0	-62	-80.46	18.46
				Result: Normal Operation				
			6185	-72.99	100	-62	-75.47	13.47
				Result: Stop Transmission				
				-73.99	< 90	-62	-76.47	14.47
				Result: Minimal Operation				
				-74.99	0	-62	-77.47	15.47
				Result: Normal Operation				
			6260	-73.87	100	-62	-76.35	14.35
				Result: Stop Transmission				
				-74.87	< 90	-62	-77.35	15.35
				Result: Minimal Operation				
				-75.87	0	-62	-78.35	16.35
				Result: Normal Operation				

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.48 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 6	6455	20	6455	-78.59	100	-62	-80.92	18.92
					Result: Stop Transmission			
				-82.59	< 90	-62	-84.92	22.92
					Result: Minimal Operation			
				-83.59	0	-62	-85.92	23.92
					Result: Normal Operation			
	6505	160	6430	-77.22	100	-62	-79.55	17.55
					Result: Stop Transmission			
				-80.22	< 90	-62	-82.55	20.55
					Result: Minimal Operation			
				-81.22	0	-62	-83.55	21.55
					Result: Normal Operation			
			6505	-72.2	100	-62	-74.53	12.53
					Result: Stop Transmission			
				-76.20	< 90	-62	-78.53	16.53
					Result: Minimal Operation			
				-77.20	0	-62	-79.53	17.53
					Result: Normal Operation			
			6580	-76.18	100	-62	-78.51	16.51
					Result: Stop Transmission			
				-79.18	< 90	-62	-81.51	19.51
					Result: Minimal Operation			
				-80.18	0	-62	-82.51	20.51
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.33 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-79.62	100	-62	-83.09	21.09
					Result: Stop Transmission			
				-83.62	< 90	-62	-87.09	25.09
					Result: Minimal Operation			
				-84.62	0	-62	-88.09	26.09
					Result: Normal Operation			
	6665	160	6590	-75.72	100	-62	-79.19	17.19
					Result: Stop Transmission			
				-79.72	< 90	-62	-83.19	21.19
					Result: Minimal Operation			
				-80.72	0	-62	-84.19	22.19
					Result: Normal Operation			
			6665	-71.73	100	-62	-75.20	13.2
					Result: Stop Transmission			
				-75.73	< 90	-62	-79.20	17.20
					Result: Minimal Operation			
				-76.73	0	-62	-80.20	18.20
					Result: Normal Operation			
			6740	-73.77	100	-62	-77.24	15.24
					Result: Stop Transmission			
				-78.77	< 90	-62	-82.24	20.24
					Result: Minimal Operation			
				-79.77	0	-62	-83.24	21.24
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (3.47 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 8	7015	20	7015	-77.46	100	-62	-79.25	17.25
					Result: Stop Transmission			
				-81.46	< 90	-62	-83.25	21.25
					Result: Minimal Operation			
				-82.46	0	-62	-84.25	22.25
					Result: Normal Operation			
	6985	160	6910	-75.49	100	-62	-77.28	15.28
					Result: Stop Transmission			
				-79.49	< 90	-62	-81.28	19.28
					Result: Minimal Operation			
				-80.49	0	-62	-82.28	20.28
					Result: Normal Operation			
			6985	-71.54	100	-62	-73.33	11.33
					Result: Stop Transmission			
				-75.54	< 90	-62	-77.33	15.33
					Result: Minimal Operation			
				-76.54	0	-62	-78.33	16.33
					Result: Normal Operation			
			7060	-74.46	100	-62	-76.25	14.25
					Result: Stop Transmission			
				-77.46	< 90	-62	-79.25	17.25
					Result: Minimal Operation			
				-78.46	0	-62	-80.25	18.25
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (1.79 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.

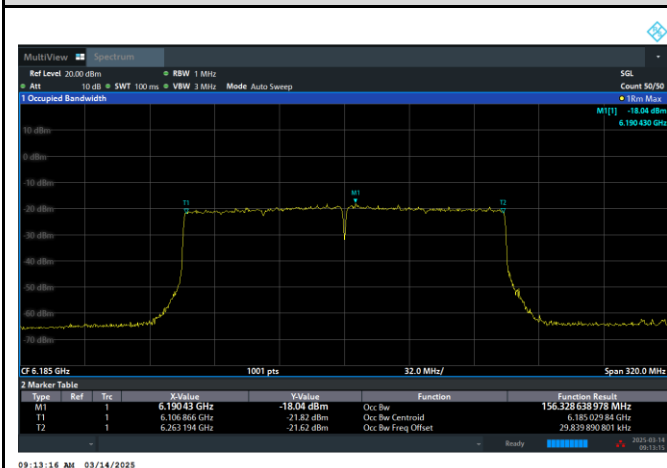
CBP verify with frequency domain plots

The device does not support channel puncturing with regards to Contention Based Protocol.

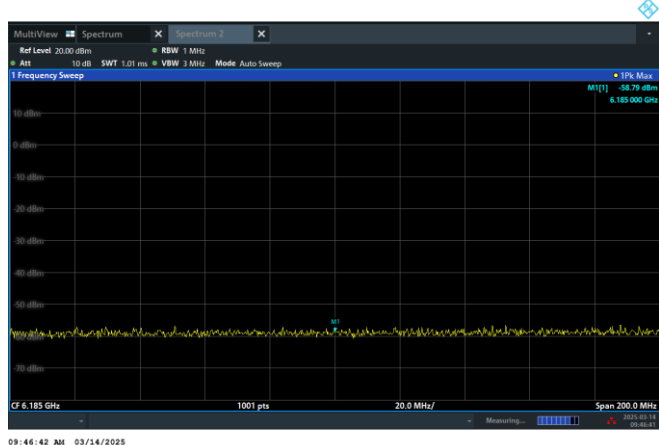
The entire bandwidth 160MHz stops transmission after the incumbent signal appears.

Otherwise, the entire 80MHz bandwidth is reduced to 40MHz or 80MHz.

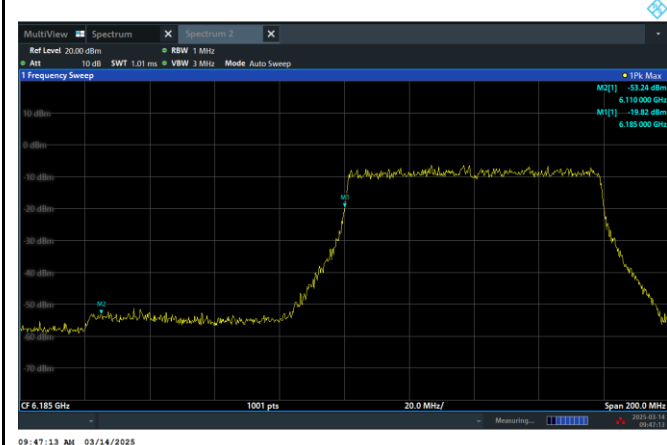
Before incumbent injected on 160MHz channel



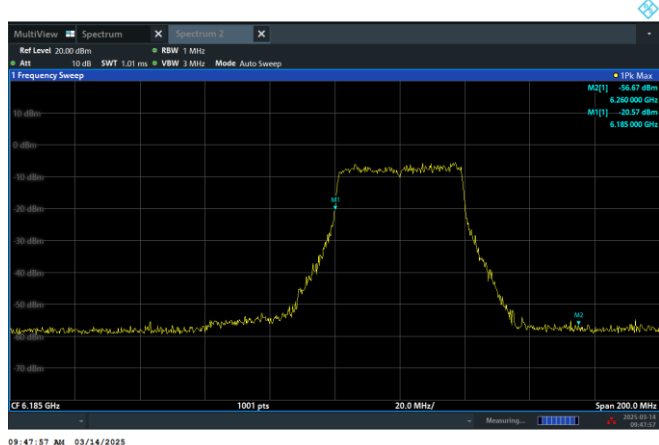
After 10MHz incumbent injected on center of channel, the entire 160MHz bandwidth stops transmission.



After 10MHz incumbent injected on bottom of channel, the EUT bandwidth is reduced from 160MHz to 80MHz channel.

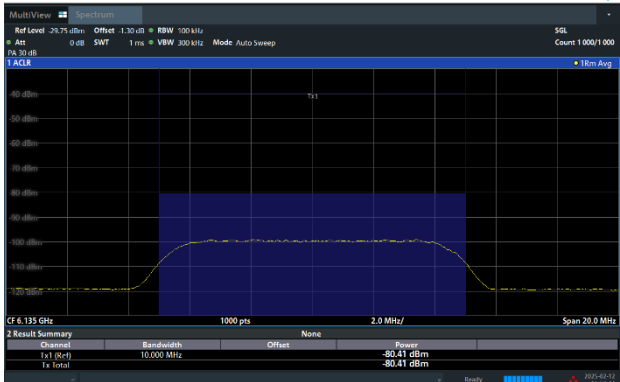
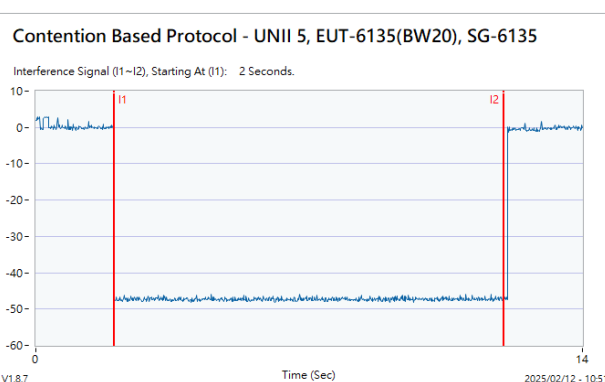
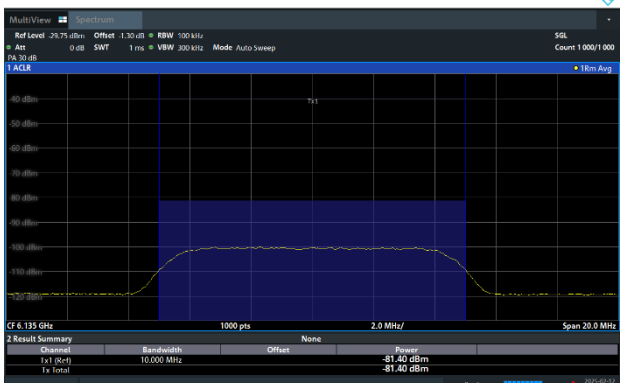
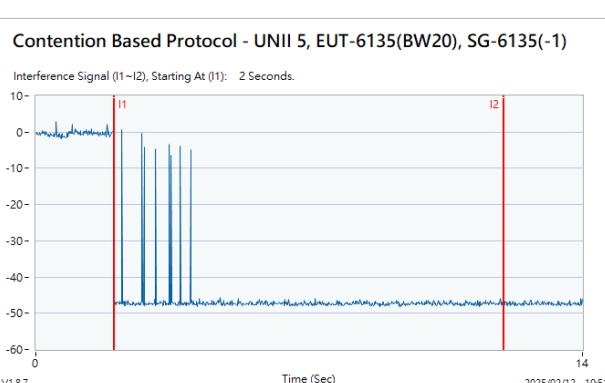


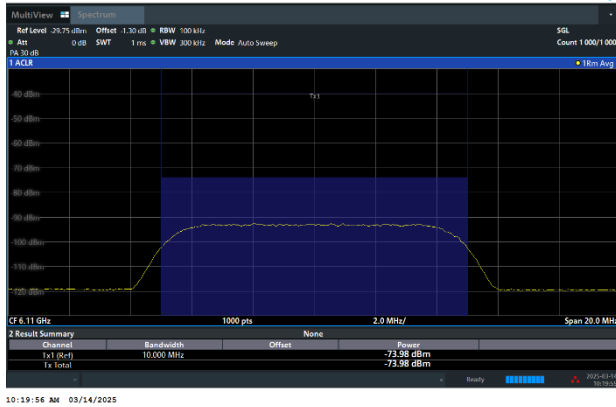
After 10MHz incumbent injected on top of channel, the EUT bandwidth is reduced from 160MHz to 40MHz channel.



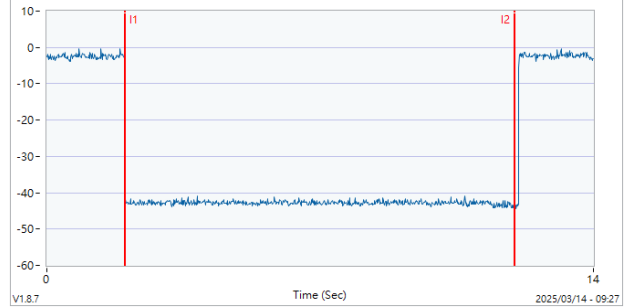
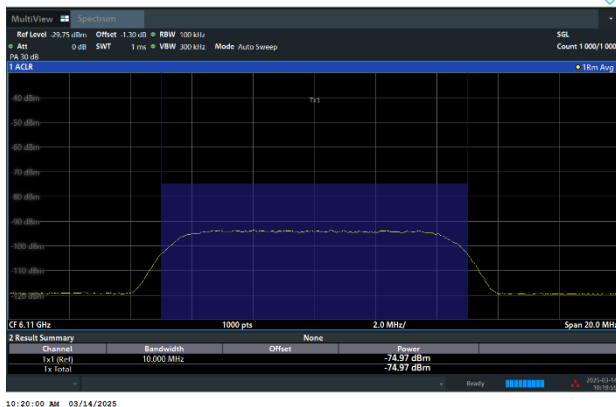


3.5.8 Test Plots of Contention Based Protocol Test

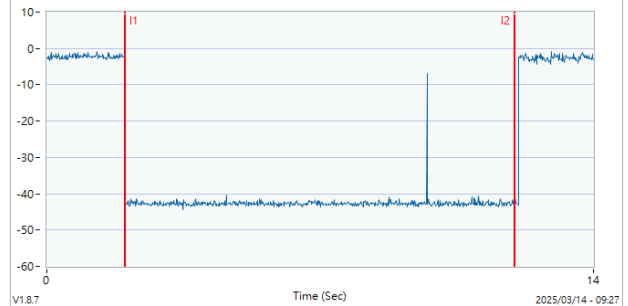
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -80.41dBm 	802.11ax (HE20) / CH37 Test result is pass due to no transmission occur. 
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -81.4dBm 	802.11ax (HE20) / CH37 Transmit when the interferer is 1dB lower. 

**Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)****802.11ax (HE160) / 6110MHz (Lower edge)****Threshold Level (TL) = -73.98dBm****802.11ax (HE160) / CH47 (Lower edge)****Test result is pass due to no transmission occur.****Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6110**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

**802.11ax (HE160) / 6110MHz (Lower edge)****Threshold Level (TL) = -74.97dBm****802.11ax (HE160) / CH47 (Lower edge)****Transmit when the interferer is 1dB lower.****Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6110(-1)**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

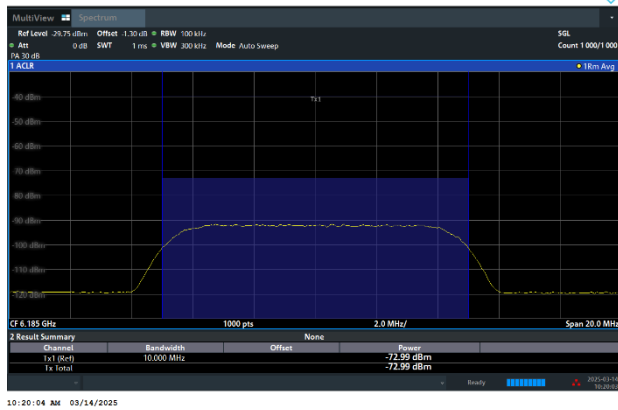




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

802.11ax (HE160) / 6185MHz (Middle)

Threshold Level (TL) = -72.99dBm

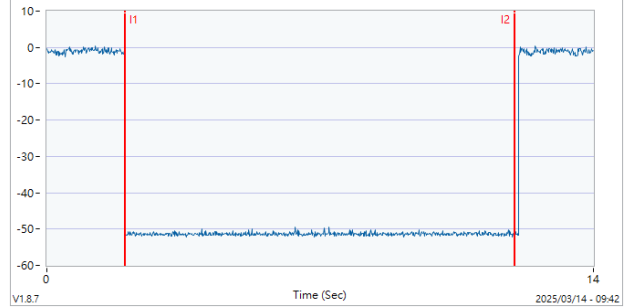


802.11ax (HE160) / CH47 (Middle)

Test result is pass due to no transmission occur.

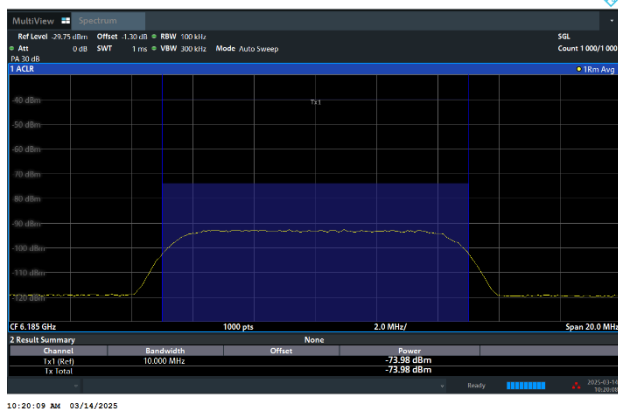
Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6185

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6185MHz (Middle)

Threshold Level (TL) = -73.98dBm

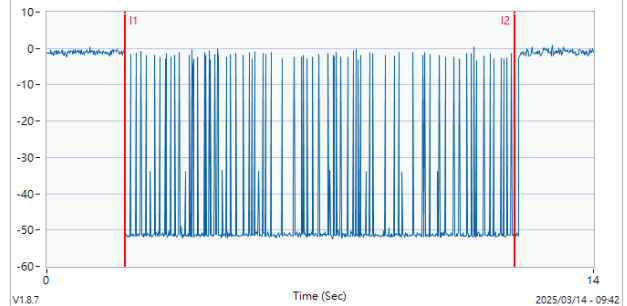


802.11ax (HE160) / CH47 (Middle)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6185(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

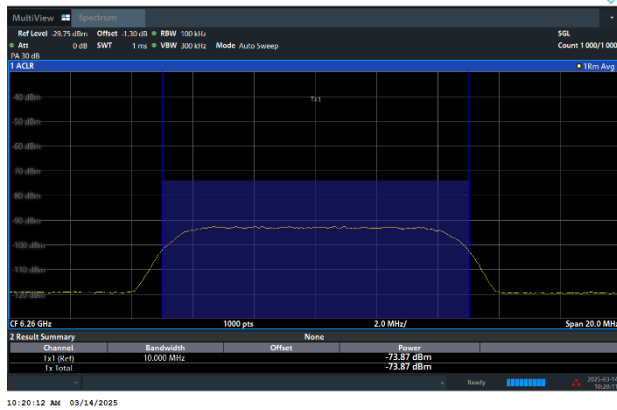




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

802.11ax (HE160) / 6260MHz (Upper edge)

Threshold Level (TL) = -73.87dBm

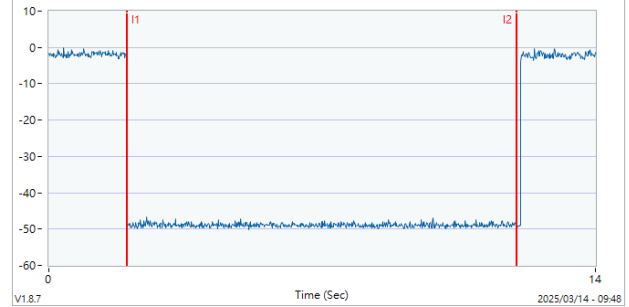


802.11ax (HE160) / CH47 (Upper edge)

Test result is pass due to no transmission occur.

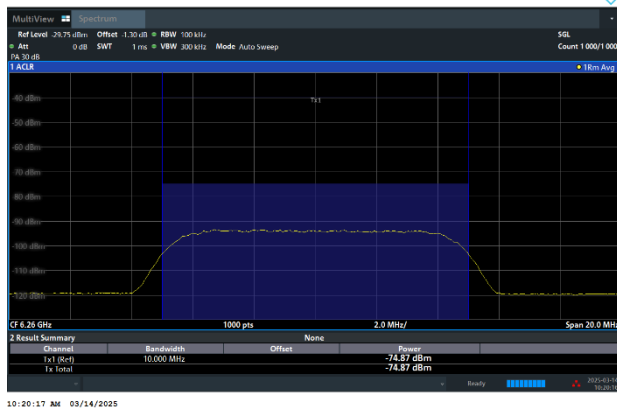
Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6260

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6260MHz (Upper edge)

Threshold Level (TL) = -74.87dBm

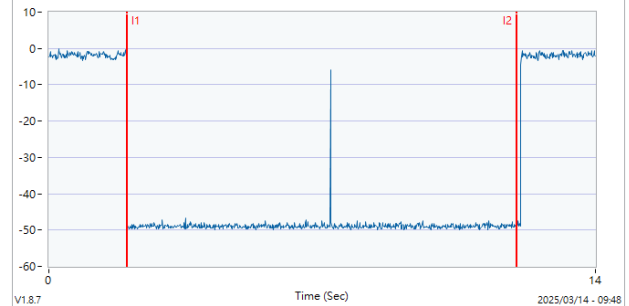


802.11ax (HE160) / CH47 (Upper edge)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 5, EUT-6185(BW160), SG-6260(-1)

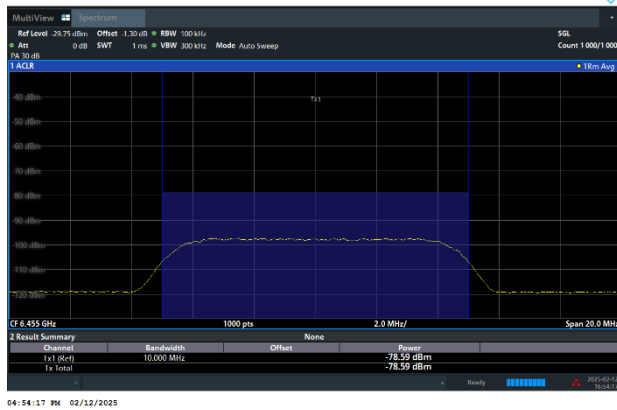
Interference Signal (I1~I2), Starting At (I1): 2 Seconds.





Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

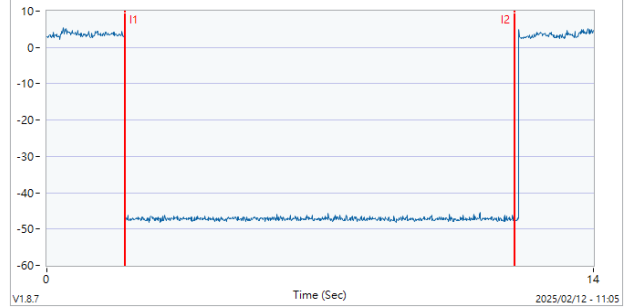
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -78.59dBm



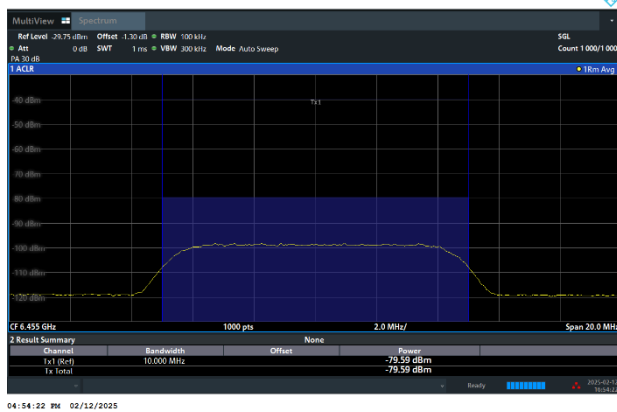
802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.

Contention Based Protocol - UNII 6, EUT-6455(BW20), SG-6455

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



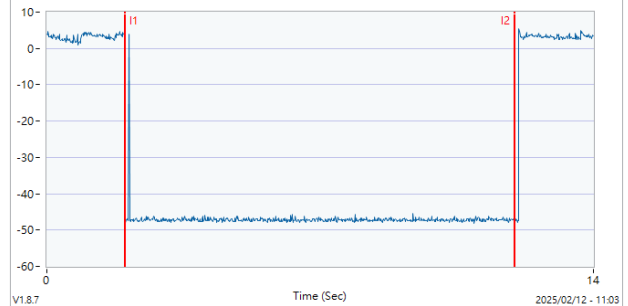
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -79.59dBm



802.11ax (HE20) / CH101
Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 6, EUT-6455(BW20), SG-6455(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

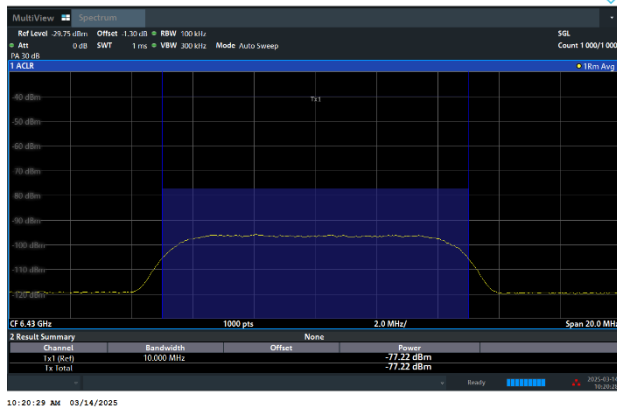




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6430MHz (Lower edge)

Threshold Level (TL) = -77.22dBm

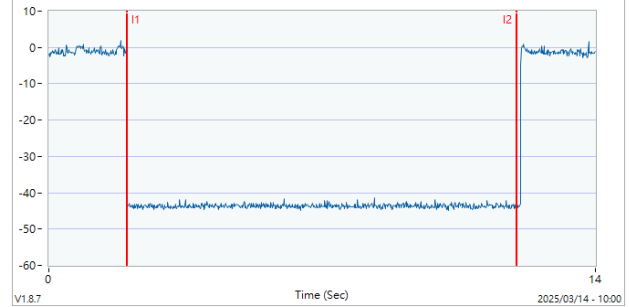


802.11ax (HE160) / CH111 (Lower edge)

Test result is pass due to no transmission occur.

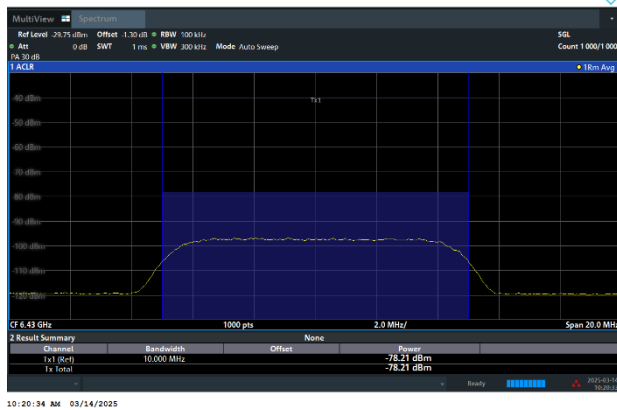
Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6430

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6430MHz (Lower edge)

Threshold Level (TL) = -78.21dBm

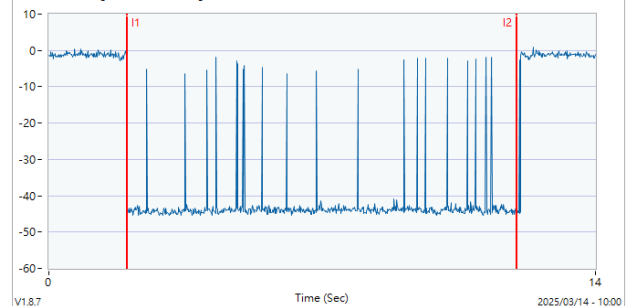


802.11ax (HE160) / CH111 (Lower edge)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6430(-1)

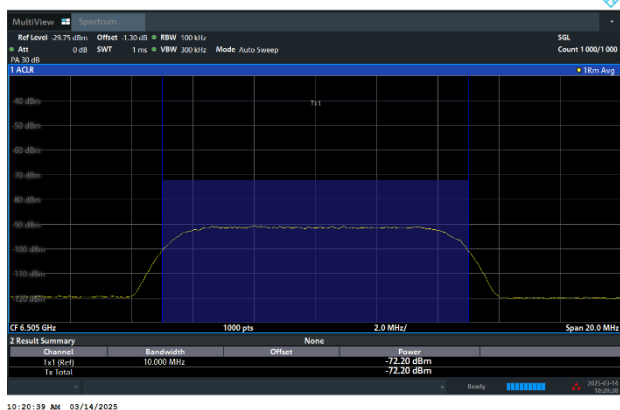
Interference Signal (I1~I2), Starting At (I1): 2 Seconds.





Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -72.2dBm

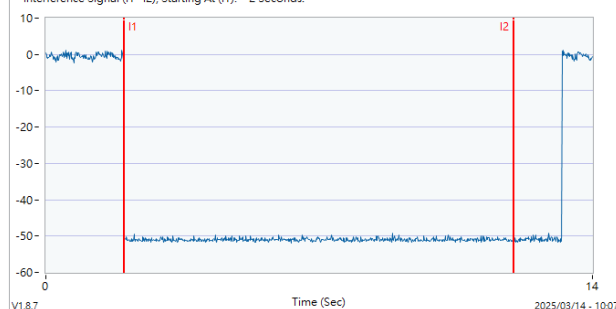


802.11ax (HE160) / CH111 (Middle)

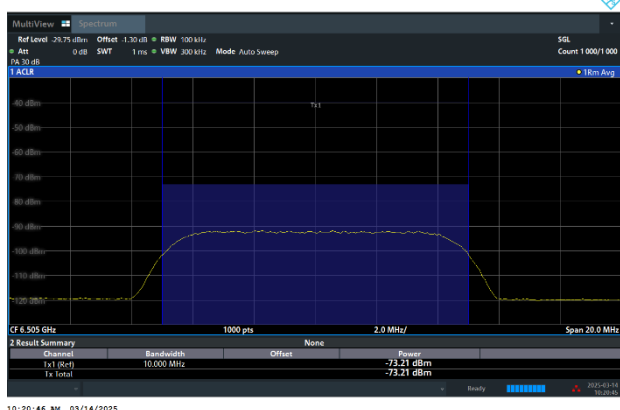
Test result is pass due to no transmission occur.

Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6505

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -73.21dBm

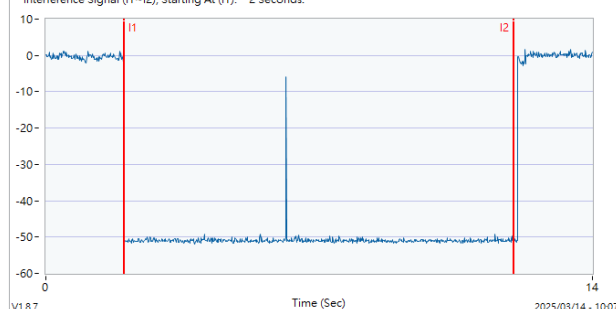


802.11ax (HE160) / CH111 (Middle)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6505(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

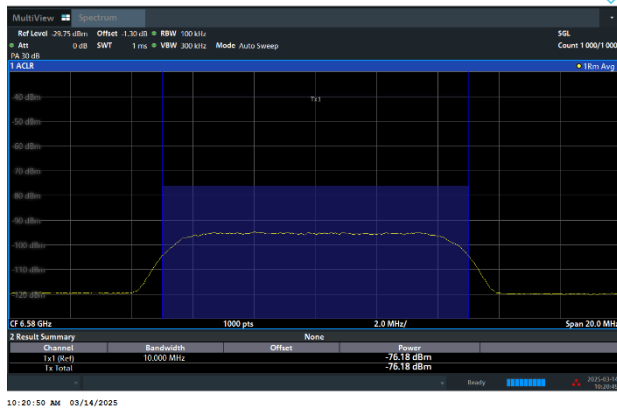




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6580MHz (Upper edge)

Threshold Level (TL) = -76.18dBm

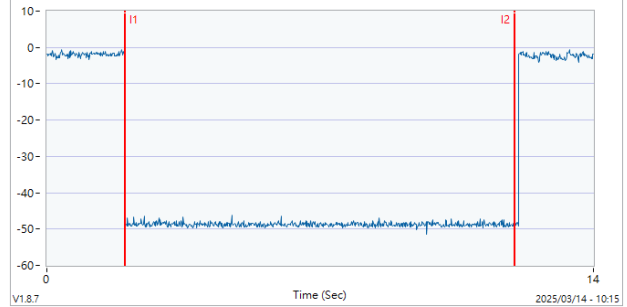


802.11ax (HE160) / CH111 (Upper edge)

Test result is pass due to no transmission occur.

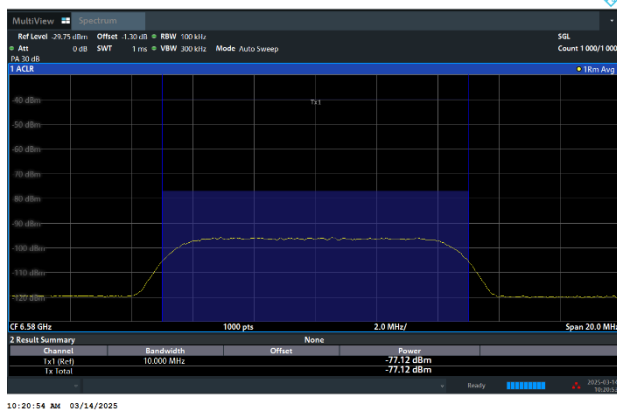
Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6580

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6580MHz (Upper edge)

Threshold Level (TL) = -77.12dBm

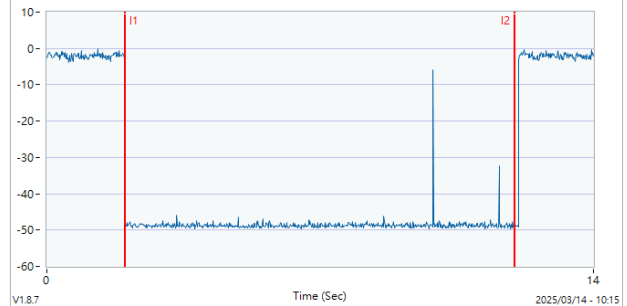


802.11ax (HE160) / CH111 (Upper edge)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 6, EUT-6505(BW160), SG-6580(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

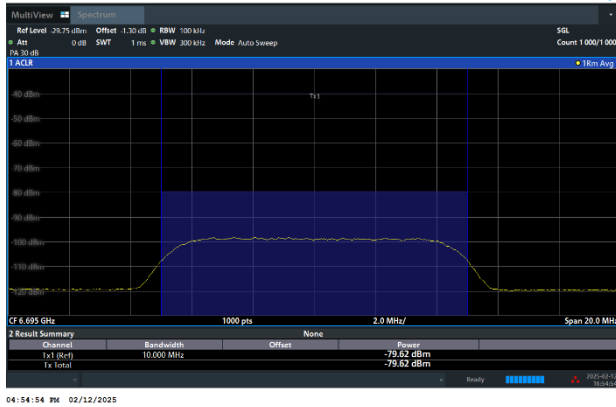




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

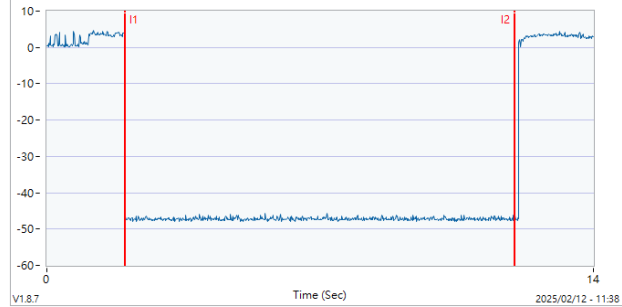
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -79.62dBm

802.11ax (HE20) / CH149
Test result is pass due to no transmission occur.



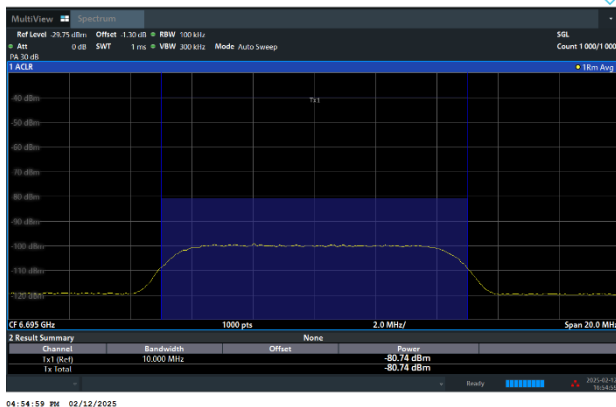
Contention Based Protocol - UNII 7, EUT-6695(BW20), SG-6695

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



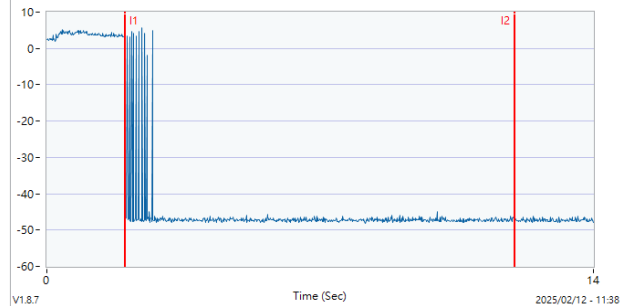
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -80.74dBm

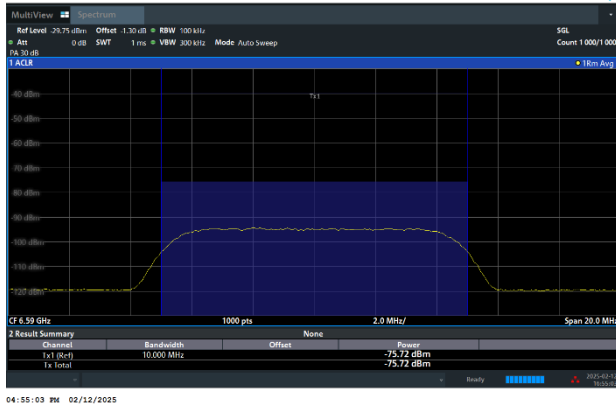
802.11ax (HE20) / CH149
Transmit when the interferer is 1dB lower.



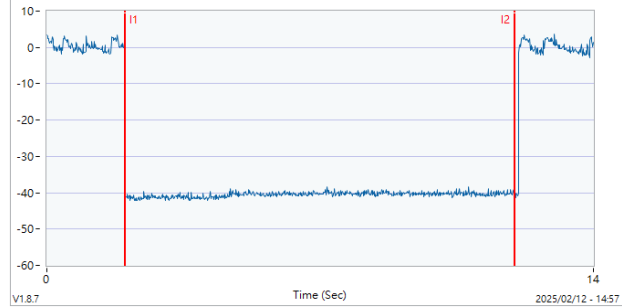
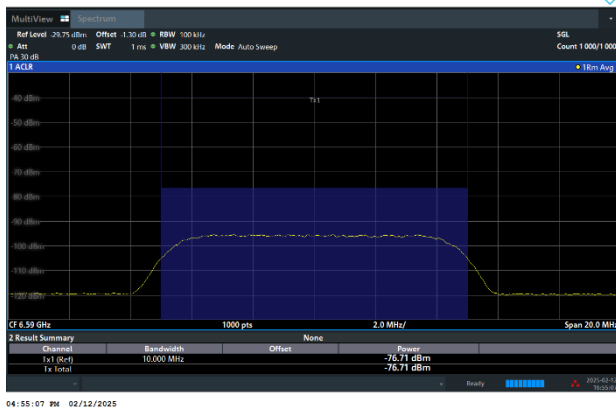
Contention Based Protocol - UNII 7, EUT-6695(BW20), SG-6695(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

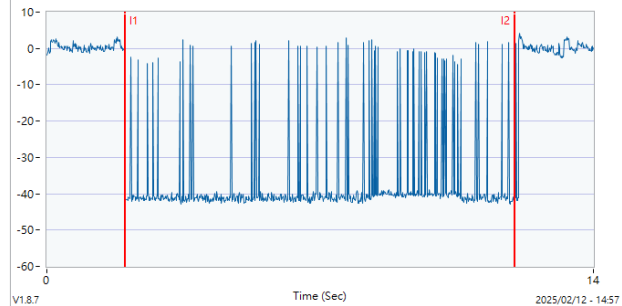


**Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)****802.11ax (HE160) / 6590MHz (Lower edge)****Threshold Level (TL) = -75.72dBm****802.11ax (HE160) / CH143 (Lower edge)****Test result is pass due to no transmission occur.****Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6590**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

**802.11ax (HE160) / 6590MHz (Lower edge)****Threshold Level (TL) = -76.71dBm****802.11ax (HE160) / CH143 (Lower edge)****Transmit when the interferer is 1dB lower.****Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6590(-1)**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

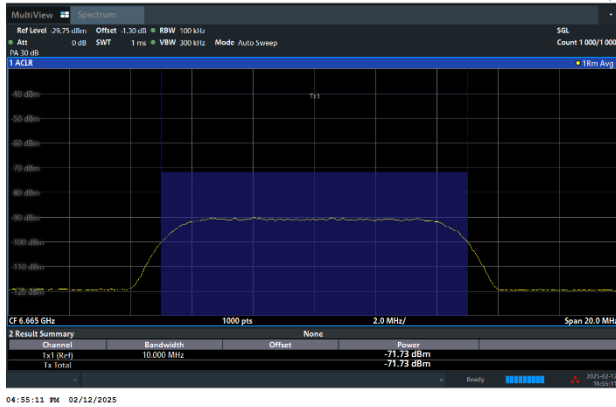




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

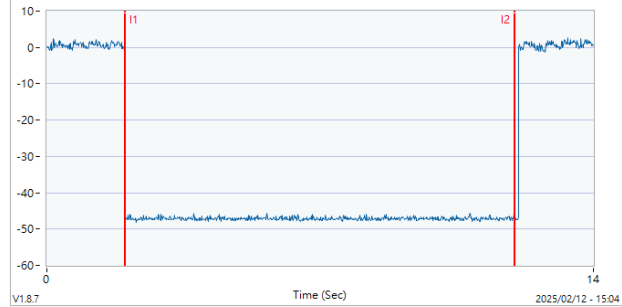
802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -71.73dBm

802.11ax (HE160) / CH143 (Middle)
Test result is pass due to no transmission occur.



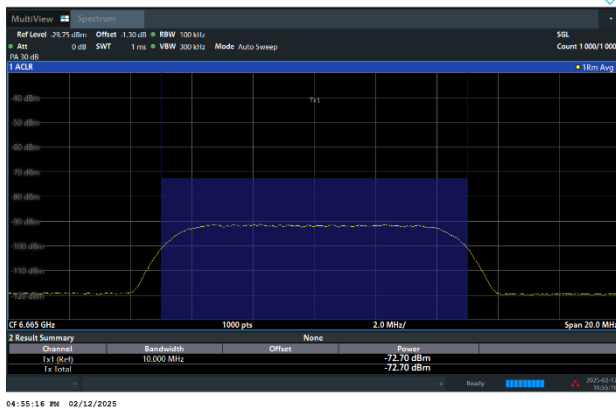
Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6665

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



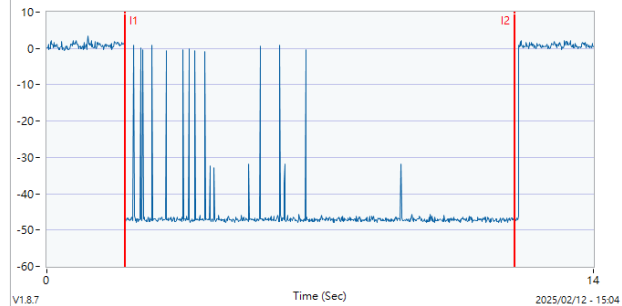
802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -72.7dBm

802.11ax (HE160) / CH143 (Middle)
Transmit when the interferer is 1dB lower.



Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6665(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

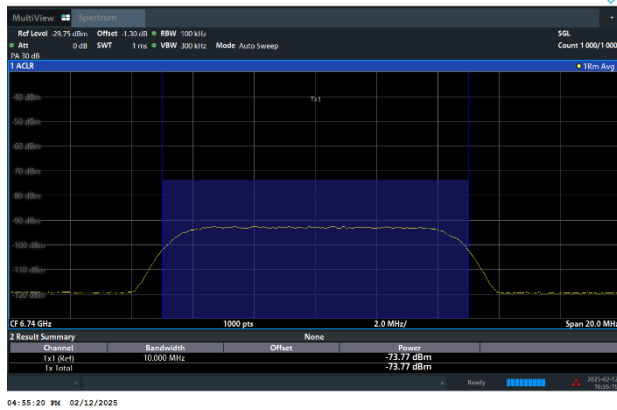




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE160) / 6740MHz (Upper edge)

Threshold Level (TL) = -73.77dBm

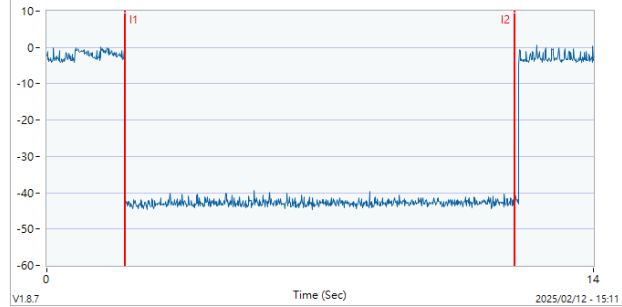


802.11ax (HE160) / CH143 (Upper edge)

Test result is pass due to no transmission occur.

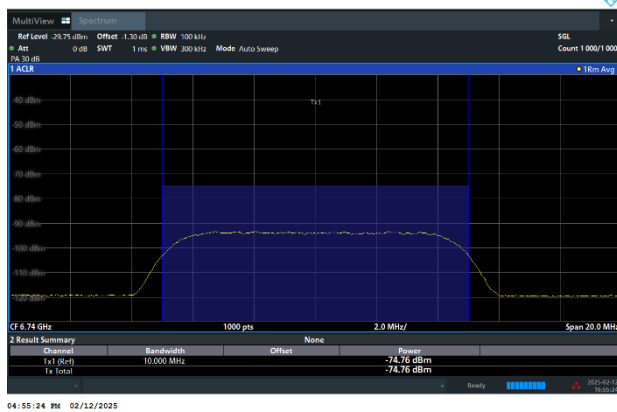
Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6740

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6740MHz (Upper edge)

Threshold Level (TL) = -74.76dBm

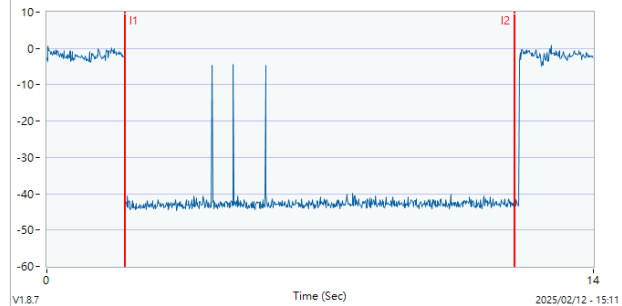


802.11ax (HE160) / CH143 (Upper edge)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 7, EUT-6665(BW160), SG-6740(-1)

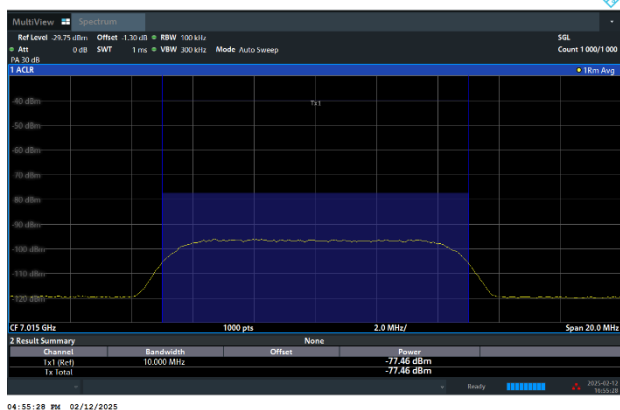
Interference Signal (I1~I2), Starting At (I1): 2 Seconds.





Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

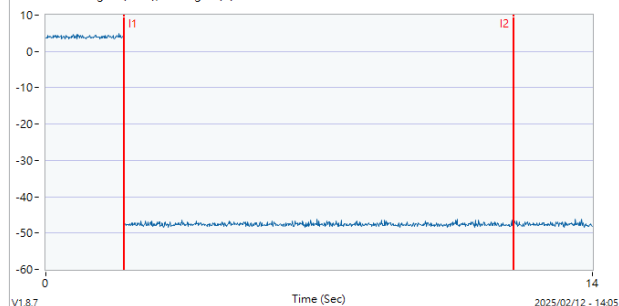
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -77.46dBm



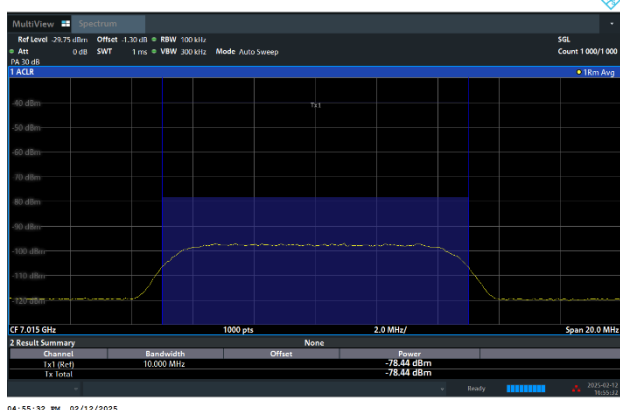
802.11ax (HE20) / CH213
Test result is pass due to no transmission occur.

Contention Based Protocol - UNII 8, EUT-7015(BW20), SG-7015

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



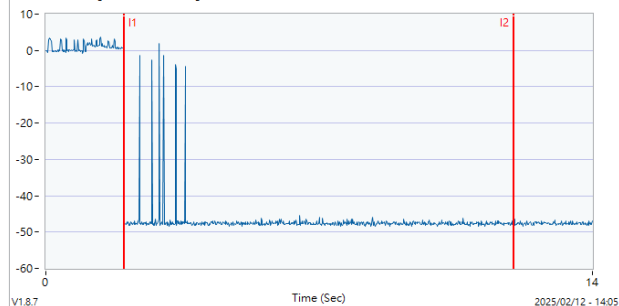
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -78.44dBm

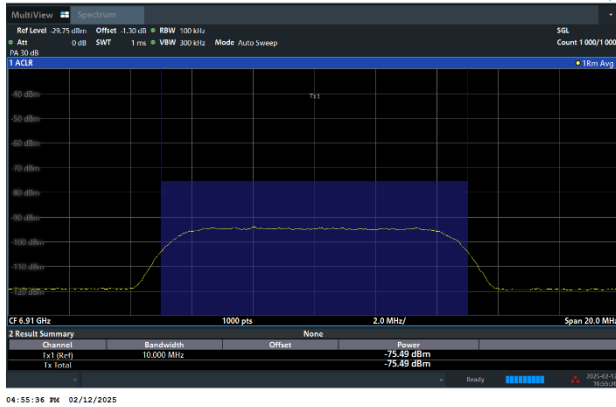


802.11ax (HE20) / CH213
Transmit when the interferer is 1dB lower.

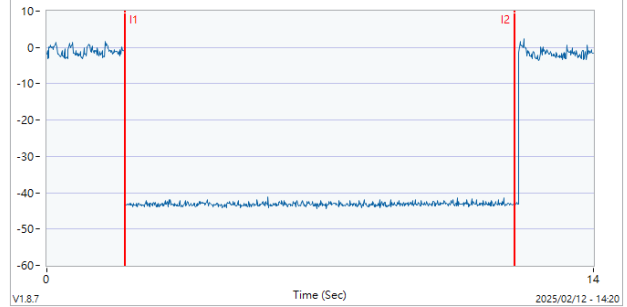
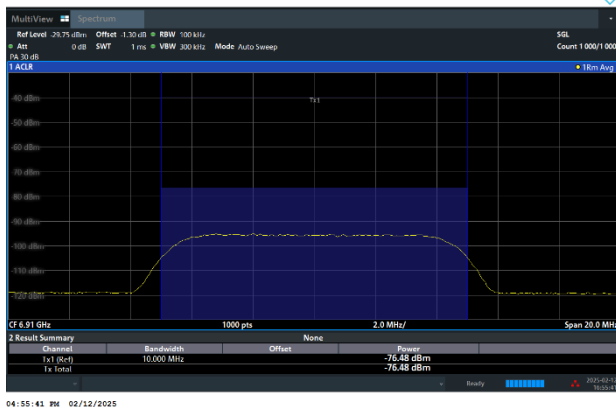
Contention Based Protocol - UNII 8, EUT-7015(BW20), SG-7015(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

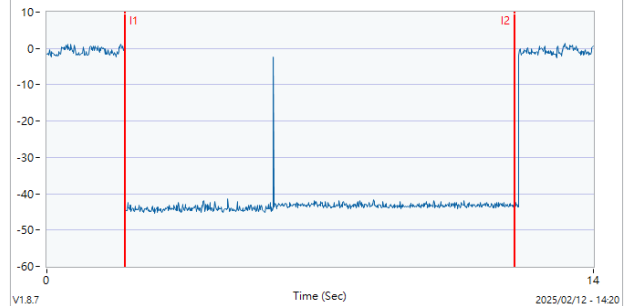


**Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)****802.11ax (HE160) / 6910MHz (Lower edge)****Threshold Level (TL) = -75.49dBm****802.11ax (HE160) / CH207 (Lower edge)****Test result is pass due to no transmission occur.****Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-6910**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

**802.11ax (HE160) / 6910MHz (Lower edge)****Threshold Level (TL) = -76.48dBm****802.11ax (HE160) / CH207 (Lower edge)****Transmit when the interferer is 1dB lower.****Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-6910(-1)**

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

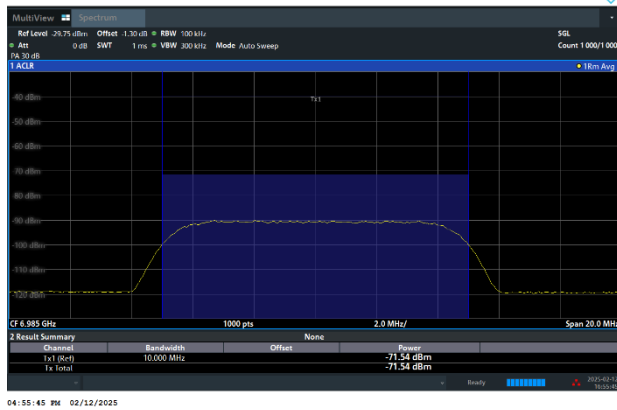




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

802.11ax (HE160) / 6985MHz (Middle)

Threshold Level (TL) = -71.54dBm

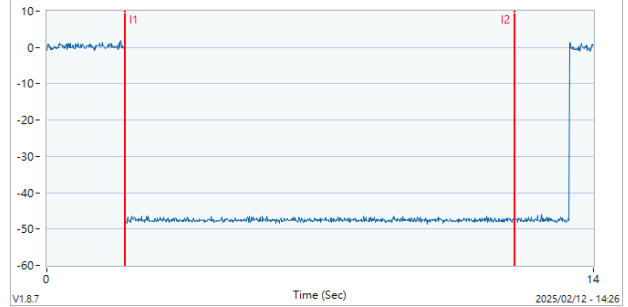


802.11ax (HE160) / CH207 (Middle)

Test result is pass due to no transmission occur.

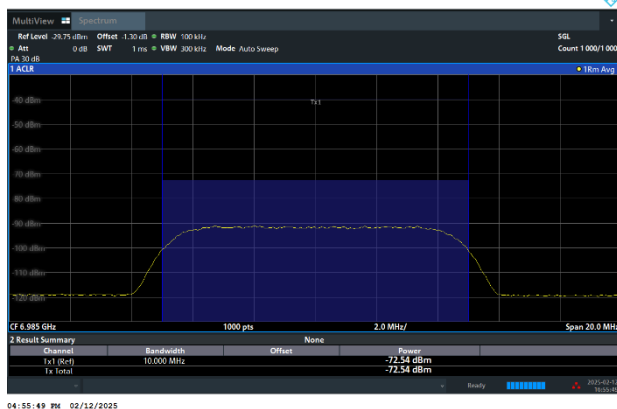
Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-6985

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 6985MHz (Middle)

Threshold Level (TL) = -72.54dBm

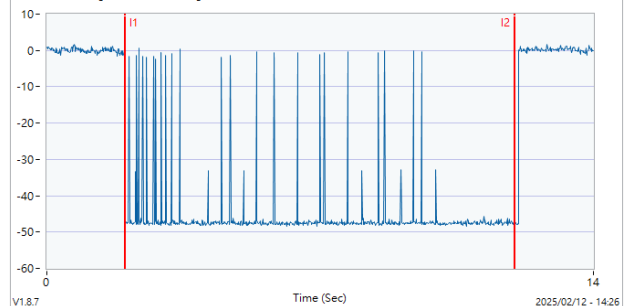


802.11ax (HE160) / CH207 (Middle)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-6985(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

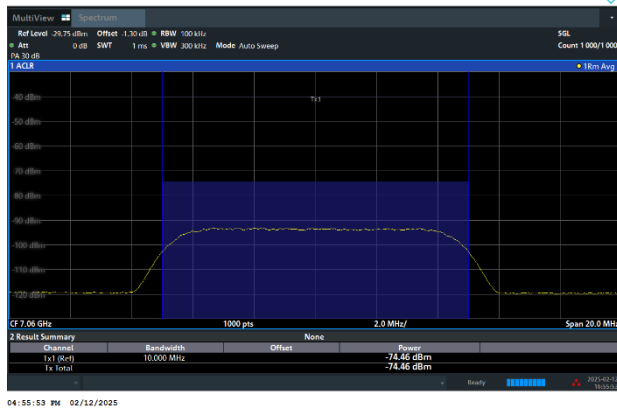




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

802.11ax (HE160) / 7060MHz (Upper edge)

Threshold Level (TL) = -74.46dBm

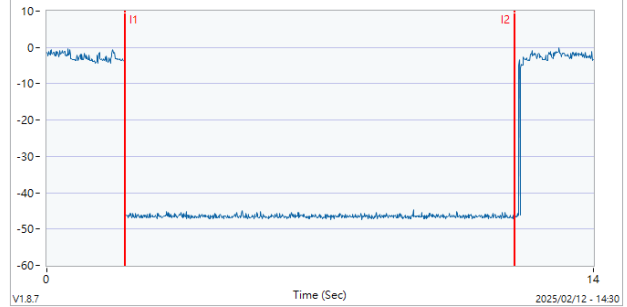


802.11ax (HE160) / CH207 (Upper edge)

Test result is pass due to no transmission occur.

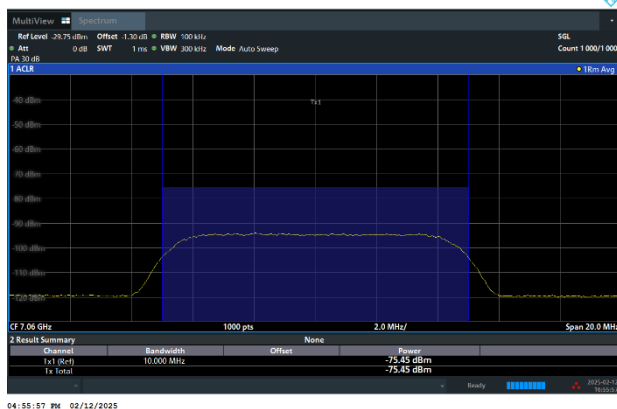
Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-7060

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



802.11ax (HE160) / 7060MHz (Upper edge)

Threshold Level (TL) = -75.45dBm

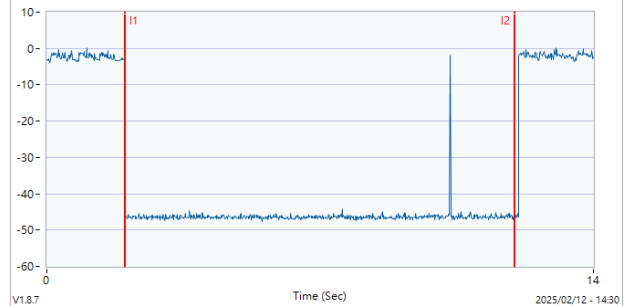


802.11ax (HE160) / CH207 (Upper edge)

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 8, EUT-6985(BW160), SG-7060(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



3.6 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.6.2 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

3.6.3 Measuring Instruments

Please refer to the measuring equipment list in this test report.



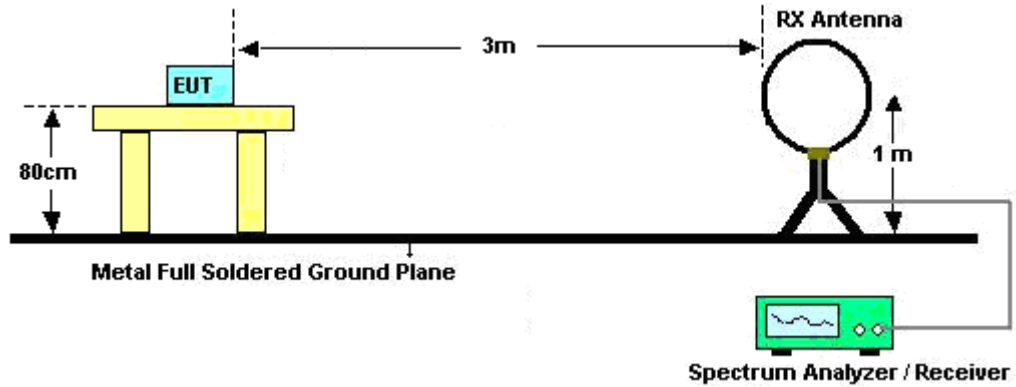
3.6.4 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic

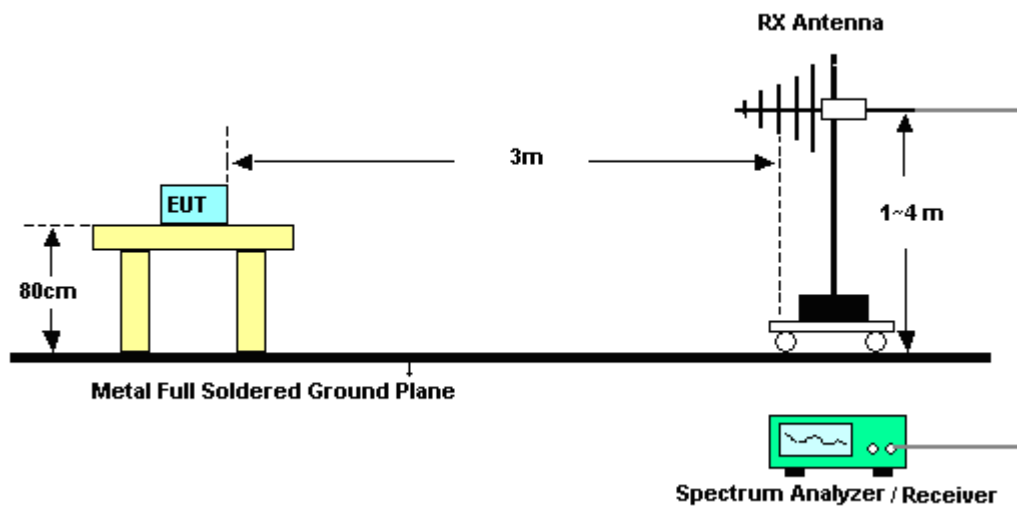
emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.6.5 Test Setup

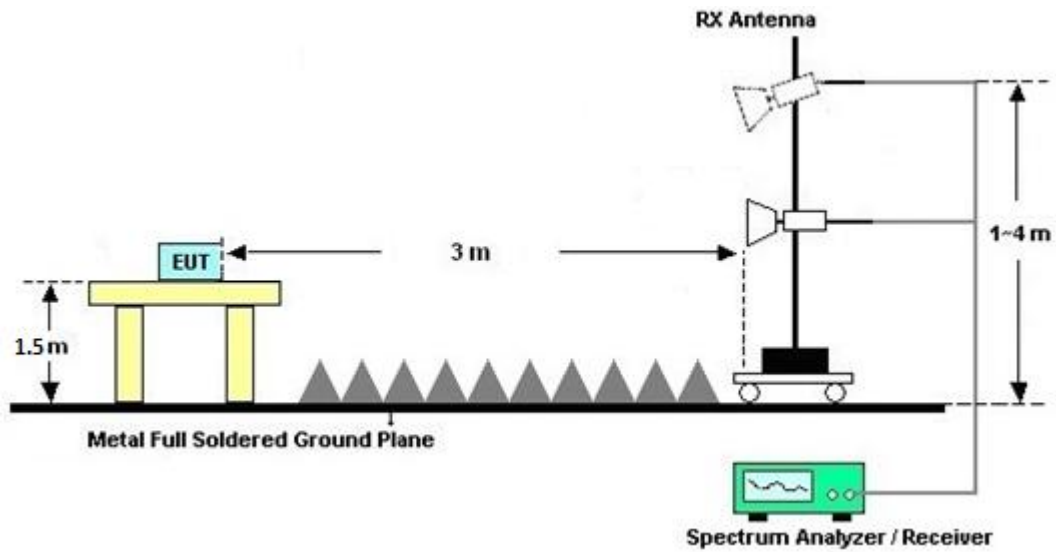
For radiated emissions below 30MHz



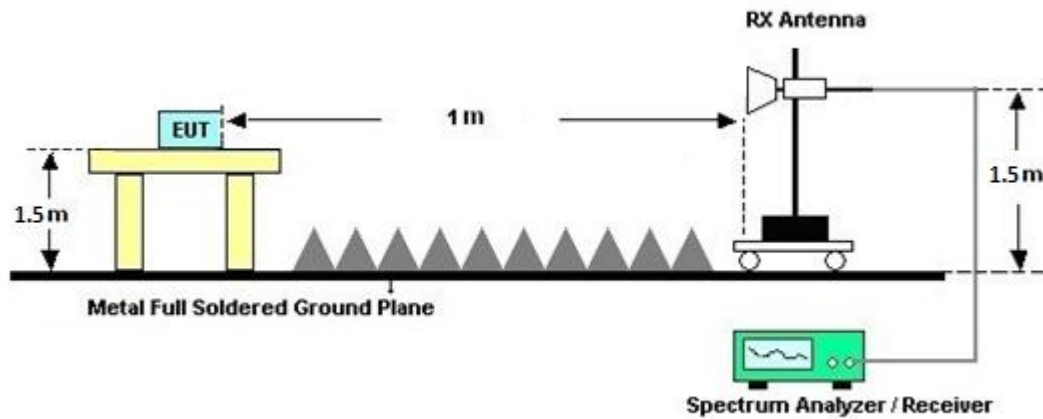
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



**3.6.6 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.6.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.6.8 Duty Cycle

Please refer to Appendix D.

3.6.9 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

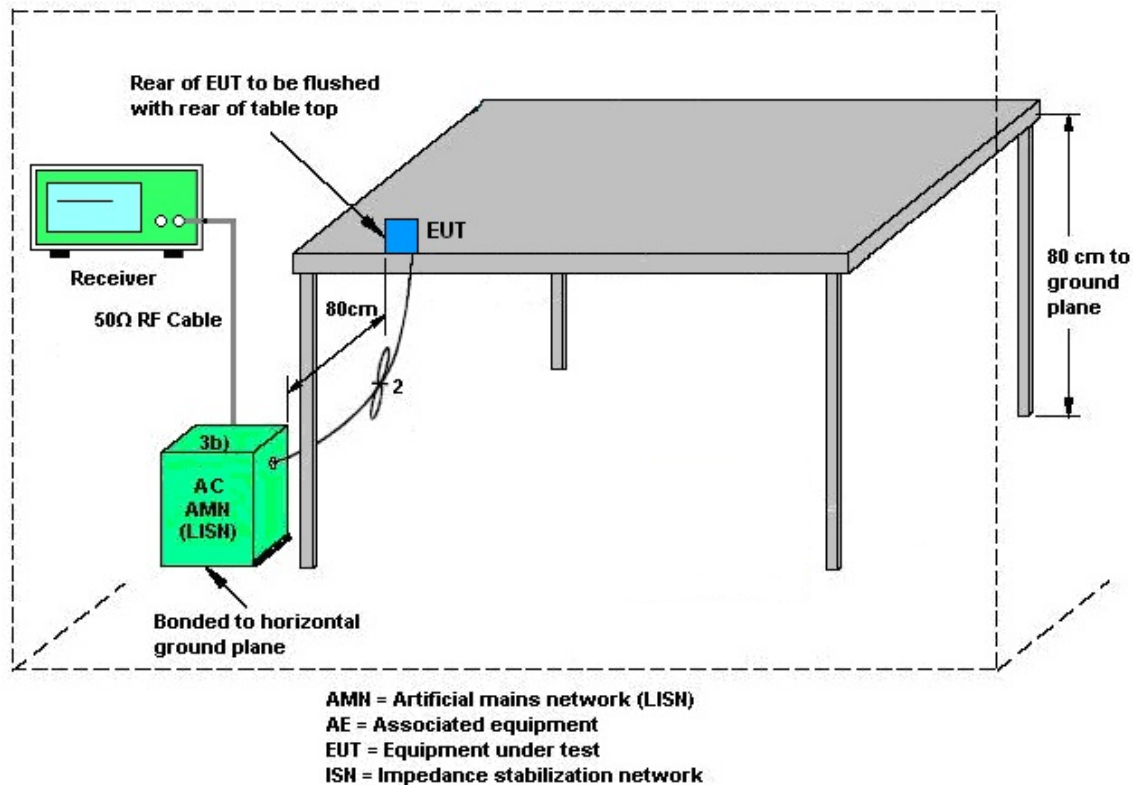
3.7.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.7.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.8 Antenna Requirements

3.8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 12, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Apr. 11, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Aug. 28, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Aug. 27, 2025	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Jun. 23, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 25, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Mar. 24, 2025	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-303	1710001800055007	1GHz~18GHz	Jun. 13, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Jun. 12, 2025	Radiation (03CH11-HY)
Amplifier	EMEC	EM01G18GA	060941	1GHz~18GHz	Nov. 29, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Nov. 28, 2025	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 27, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	May 26, 2025	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 19, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Jul. 18, 2025	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 13, 2025 ~ Feb. 28, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 13, 2025 ~ Feb. 28, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 13, 2025 ~ Feb. 28, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Jan. 13, 2025 ~ Feb. 28, 2024	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200722	N/A	Mar. 13, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Mar. 12, 2025	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Aug. 28, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	May 23, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	May 22, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 06, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 06, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Mar. 05, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40SS	SN3	6.75GHz High Pass Filter	Sep. 10, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 10, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Sep. 10, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCQV14-5425-5825-6525-6925-60SS	SN1	N/A	Jan. 03, 2025	Jan. 13, 2025 ~ Feb. 28, 2024	Jan. 02, 2026	Radiation (03CH11-HY)
Notch Filter	Wainwright	WRCQV14-6025-6425-7125-7525-60SS	SN1	N/A	Jan. 03, 2025	Jan. 13, 2025 ~ Feb. 28, 2024	Jan. 02, 2026	Radiation (03CH11-HY)
Notch Filter	Wainwright	WHW2-7100-10000-18000-40CC	SN2	10GHz High Pass Filter	Nov. 11, 2024	Jan. 13, 2025 ~ Feb. 28, 2024	Nov. 10, 2025	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 15,2025	Feb. 12,2025~ Mar. 14,2025	Jan. 14,2026	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101549	10Hz~13.6GHz	Jan. 20,2025	Feb. 12,2025~ Mar. 14,2025	Jan. 19,2026	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 1	0.5GHz-18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 2	0.5GHz-18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divider Rated to 20W	STI08-0010(# 2)	2GHz-8GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A 1	0.5-18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	MTJ Cooperation	SBF405-105FL EX	MTJ-30cm-01	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	MTJ Cooperation	SBF405-105FL EX	MTJ-30cm-03	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	MTJ Cooperation	SBF405-105FL EX	MTJ-30cm-05	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	EM	SFL402	SFL402-30cm -#8	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	SS405-100cm -05	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	SS405-100cm -06	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SLF405	EC-SFL405-1 00cm-#8	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SLF405	EC-SFL405-1 00cm-#9	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
RF Cable	MVE	SPF141	SPF141-100c m-#12	30 kHz~18GHz	Calibration from System	Feb. 12,2025~ Mar. 14,2025	Calibration from System	CBP (DF02-HY)
Software 1	Sporton	Adaptivity Test Tools	N/A	Ver 1.8.8	NCR	Feb. 12,2025~ Mar. 14,2025	NCR	CBP (DF02-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Jan. 01, 2025~ Feb. 07, 2025	Oct. 31, 2025	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W-2301 0013 (NO:100)	10MHz~8GHz	Jul. 26, 2024	Jan. 01, 2025~ Feb. 07, 2025	Jul. 25, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Jan. 01, 2025~ Feb. 07, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Jan. 01, 2025~ Feb. 07, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_25011 4	N/A	Conducted Other Test Item	N/A	Jan. 01, 2025~ Feb. 07, 2025	N/A	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 19, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 19, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 23, 2024	Mar. 19, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 3, 2025	Mar. 19, 2025	Mar. 2, 2026	Conduction (CO07-HY)
Lisn	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 12, 2024	Mar. 19, 2025	Dec. 11, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 19, 2025	Sep. 22, 2025	Conduction (CO07-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Hank Hsu/Sylvia Li	Temperature:	21~25	°C
Test Date:	2025/1/1~2025/02/07	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	001	5955	242/61	19.06	19.11	22.26	22.65	320.00	Pass
HE20	MCS0	2	045	6175	242/61	19.08	19.08	22.62	22.52	320.00	Pass
HE20	MCS0	2	093	6415	242/61	19.12	19.12	22.98	22.54	320.00	Pass
HE40	MCS0	2	003	5965	484/65	38.42	38.48	45.30	45.25	320.00	Pass
HE40	MCS0	2	043	6165	484/65	38.50	38.52	45.79	44.50	320.00	Pass
HE40	MCS0	2	091	6405	484/65	38.48	38.39	45.36	45.10	320.00	Pass
HE80	MCS0	2	007	5985	996/67	78.15	78.18	89.02	88.13	320.00	Pass
HE80	MCS0	2	039	6145	996/67	78.10	78.16	88.74	88.35	320.00	Pass
HE80	MCS0	2	087	6385	996/67	78.05	78.09	88.03	86.88	320.00	Pass
HE160	MCS0	2	015	6025	Full	158.41	158.43	172.85	173.04	320.00	Pass
HE160	MCS0	2	047	6185	Full	158.26	158.41	173.47	174.19	320.00	Pass
HE160	MCS0	2	079	6345	Full	158.19	158.55	172.61	174.86	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	001	5955	Full	0.00	0.00	-0.20	-17.3	-0.12	3.88	3.76	24.00	Pass	
HE20	MCS0	2	001	5955	26/0	0.02	0.02	-11.7	-11.5	-8.59	3.88	-4.71	24.00	Pass	
HE20	MCS0	2	001	5955	52/37	0.02	0.03	-8.70	-8.50	-5.59	3.88	-1.71	24.00	Pass	
HE20	MCS0	2	001	5955	106/53	0.03	0.01	-5.80	-5.60	-2.69	3.88	1.19	24.00	Pass	
HE20	MCS0	2	001	5955	242/61	0.02	0.02	0.30	-17.2	0.38	3.88	4.26	24.00	Pass	
HE20	MCS0	2	045	6175	Full	0.00	0.00	-0.30	-1.40	2.20	3.88	6.08	24.00	Pass	
HE20	MCS0	2	045	6175	26/4	0.02	0.02	-9.60	-8.60	-6.06	3.88	-2.18	24.00	Pass	
HE20	MCS0	2	045	6175	52/38	0.02	0.03	-7.30	-6.40	-3.82	3.88	0.06	24.00	Pass	
HE20	MCS0	2	045	6175	106/53	0.03	0.01	-4.50	-3.70	-1.07	3.88	2.81	24.00	Pass	
HE20	MCS0	2	045	6175	242/61	0.02	0.02	-0.20	-1.30	2.30	3.88	6.18	24.00	Pass	
HE20	MCS0	2	093	6415	Full	0.00	0.00	-0.30	-0.80	2.47	3.88	6.35	24.00	Pass	
HE20	MCS0	2	093	6415	26/8	0.02	0.02	-10.2	-9.90	-7.04	3.88	-3.16	24.00	Pass	
HE20	MCS0	2	093	6415	52/40	0.02	0.03	-7.10	-6.90	-3.99	3.88	-0.11	24.00	Pass	
HE20	MCS0	2	093	6415	106/54	0.03	0.01	-3.60	-3.40	-0.49	3.88	3.39	24.00	Pass	
HE20	MCS0	2	093	6415	242/61	0.02	0.02	-0.20	-0.70	2.57	3.88	6.45	24.00	Pass	
HE40	MCS0	2	003	5965	Full	0.02	0.02	3.30	2.00	5.71	3.88	9.59	24.00	Pass	
HE40	MCS0	2	003	5965	484/65	0.03	0.03	3.40	2.20	5.85	3.88	9.73	24.00	Pass	
HE40	MCS0	2	043	6165	Full	0.02	0.02	2.80	1.90	5.38	3.88	9.26	24.00	Pass	
HE40	MCS0	2	043	6165	484/65	0.03	0.03	2.90	2.00	5.48	3.88	9.36	24.00	Pass	
HE40	MCS0	2	091	6405	Full	0.02	0.02	3.10	1.90	5.55	3.88	9.43	24.00	Pass	
HE40	MCS0	2	091	6405	484/65	0.03	0.03	3.20	2.00	5.65	3.88	9.53	24.00	Pass	
HE80	MCS0	2	007	5985	Full	0.00	0.00	6.20	5.30	8.78	3.88	12.66	24.00	Pass	
HE80	MCS0	2	007	5985	996/67	0.05	0.05	6.30	5.50	8.93	3.88	12.81	24.00	Pass	
HE80	MCS0	2	039	6145	Full	0.00	0.00	5.70	4.90	8.33	3.88	12.21	24.00	Pass	
HE80	MCS0	2	039	6145	996/67	0.05	0.05	5.90	5.10	8.53	3.88	12.41	24.00	Pass	
HE80	MCS0	2	087	6385	Full	0.00	0.00	5.90	5.10	8.53	3.88	12.41	24.00	Pass	
HE80	MCS0	2	087	6385	996/67	0.05	0.05	6.00	5.20	8.63	3.88	12.51	24.00	Pass	
HE160	MCS0	2	015	6025	Full	0.00	0.00	8.10	7.50	10.82	3.88	14.70	24.00	Pass	
HE160	MCS0	2	047	6185	Full	0.00	0.00	8.20	7.60	10.92	3.88	14.80	24.00	Pass	
HE160	MCS0	2	079	6345	Full	0.00	0.00	8.20	7.20	10.74	3.88	14.62	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	001	5955	Full	0.00	0.00			-12.45	6.80	-5.65	-1.00	Pass	
HE20	MCS0	2	001	5955	26/0	0.02	0.02			-12.25	6.80	-5.45	-1.00	Pass	
HE20	MCS0	2	001	5955	52/37	0.02	0.03			-12.27	6.80	-5.47	-1.00	Pass	
HE20	MCS0	2	001	5955	106/53	0.03	0.01			-12.32	6.80	-5.52	-1.00	Pass	
HE20	MCS0	2	001	5955	242/61	0.02	0.02			-12.20	6.80	-5.40	-1.00	Pass	
HE20	MCS0	2	045	6175	Full	0.00	0.00			-10.34	6.80	-3.54	-1.00	Pass	
HE20	MCS0	2	045	6175	26/4	0.02	0.02			-10.61	6.80	-3.81	-1.00	Pass	
HE20	MCS0	2	045	6175	52/38	0.02	0.03			-10.30	6.80	-3.50	-1.00	Pass	
HE20	MCS0	2	045	6175	106/53	0.03	0.01			-10.56	6.80	-3.76	-1.00	Pass	
HE20	MCS0	2	045	6175	242/61	0.02	0.02			-10.25	6.80	-3.45	-1.00	Pass	
HE20	MCS0	2	093	6415	Full	0.00	0.00			-9.96	6.80	-3.16	-1.00	Pass	
HE20	MCS0	2	093	6415	26/8	0.02	0.02			-10.33	6.80	-3.53	-1.00	Pass	
HE20	MCS0	2	093	6415	52/40	0.02	0.03			-10.34	6.80	-3.54	-1.00	Pass	
HE20	MCS0	2	093	6415	106/54	0.03	0.01			-9.94	6.80	-3.14	-1.00	Pass	
HE20	MCS0	2	093	6415	242/61	0.02	0.02			-9.87	6.80	-3.07	-1.00	Pass	
HE40	MCS0	2	003	5965	Full	0.02	0.02			-10.03	6.80	-3.23	-1.00	Pass	
HE40	MCS0	2	003	5965	484/65	0.03	0.03			-9.98	6.80	-3.18	-1.00	Pass	
HE40	MCS0	2	043	6165	Full	0.02	0.02			-9.93	6.80	-3.13	-1.00	Pass	
HE40	MCS0	2	043	6165	484/65	0.03	0.03			-9.89	6.80	-3.09	-1.00	Pass	
HE40	MCS0	2	091	6405	Full	0.02	0.02			-9.92	6.80	-3.12	-1.00	Pass	
HE40	MCS0	2	091	6405	484/65	0.03	0.03			-9.86	6.80	-3.06	-1.00	Pass	
HE80	MCS0	2	007	5985	Full	0.00	0.00			-10.01	6.80	-3.21	-1.00	Pass	
HE80	MCS0	2	007	5985	996/67	0.05	0.05			-9.82	6.80	-3.02	-1.00	Pass	
HE80	MCS0	2	039	6145	Full	0.00	0.00			-10.12	6.80	-3.32	-1.00	Pass	
HE80	MCS0	2	039	6145	996/67	0.05	0.05			-10.06	6.80	-3.26	-1.00	Pass	
HE80	MCS0	2	087	6385	Full	0.00	0.00			-10.06	6.80	-3.26	-1.00	Pass	
HE80	MCS0	2	087	6385	996/67	0.05	0.05			-9.89	6.80	-3.09	-1.00	Pass	
HE160	MCS0	2	015	6025	Full	0.02	0.02			-9.93	6.80	-3.13	-1.00	Pass	
HE160	MCS0	2	047	6185	Full	0.02	0.02			-10.24	6.80	-3.44	-1.00	Pass	
HE160	MCS0	2	079	6345	Full	0.02	0.02			-9.91	6.80	-3.11	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-6 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	097	6435	242/61	19.09	19.07	22.67	22.46	320.00	Pass
HE20	MCS0	2	105	6475	242/61	19.10	19.09	22.99	22.58	320.00	Pass
HE20	MCS0	2	113	6515	242/61	19.12	19.11	22.51	22.64	320.00	Pass
HE40	MCS0	2	099	6445	484/65	38.48	38.46	45.02	44.86	320.00	Pass
HE40	MCS0	2	107	6485	484/65	38.58	38.49	45.62	45.55	320.00	Pass
HE80	MCS0	2	103	6465	Full	78.17	78.10	89.57	87.68	320.00	Pass

U-NII-6 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE40	MCS0	2	115	6525	484/65	38.46	38.37	45.34	44.38	320.00	Pass
HE80	MCS0	2	119	6545	996/67	78.09	78.15	88.32	87.07	320.00	Pass
HE160	MCS0	2	111	6505	Full	158.36	158.60	172.80	171.94	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	097	6435	Full	0.00	0.00	-0.50	-1.50	2.04	3.96	6.00	24.00	Pass	
HE20	MCS0	2	097	6435	26/0	0.02	0.02	-10.5	-10.0	-7.23	3.96	-3.27	24.00	Pass	
HE20	MCS0	2	097	6435	52/37	0.02	0.03	-7.40	-6.90	-4.13	3.96	-0.17	24.00	Pass	
HE20	MCS0	2	097	6435	106/53	0.03	0.01	-4.50	-3.90	-1.18	3.96	2.78	24.00	Pass	
HE20	MCS0	2	097	6435	242/61	0.02	0.02	-0.40	-1.30	2.18	3.96	6.14	24.00	Pass	
HE20	MCS0	2	105	6475	Full	0.00	0.00	-0.60	-1.70	1.90	3.96	5.86	24.00	Pass	
HE20	MCS0	2	105	6475	26/4	0.02	0.02	-9.10	-8.80	-5.94	3.96	-1.98	24.00	Pass	
HE20	MCS0	2	105	6475	52/38	0.02	0.03	-6.80	-6.60	-3.69	3.96	0.27	24.00	Pass	
HE20	MCS0	2	105	6475	106/53	0.03	0.01	-3.90	-3.80	-0.84	3.96	3.12	24.00	Pass	
HE20	MCS0	2	105	6475	242/61	0.02	0.02	-0.50	-1.60	2.00	3.96	5.96	24.00	Pass	
HE20	MCS0	2	113	6515	Full	0.00	0.00	-0.30	-1.80	2.02	3.96	5.98	24.00	Pass	
HE20	MCS0	2	113	6515	26/8	0.02	0.02	-10.6	-10.0	-7.28	3.96	-3.32	24.00	Pass	
HE20	MCS0	2	113	6515	52/40	0.02	0.03	-7.60	-6.80	-4.17	3.96	-0.21	24.00	Pass	
HE20	MCS0	2	113	6515	106/54	0.03	0.01	-4.60	-3.70	-1.12	3.96	2.84	24.00	Pass	
HE20	MCS0	2	113	6515	242/61	0.02	0.02	-0.20	-1.70	2.12	3.96	6.08	24.00	Pass	
HE40	MCS0	2	099	6445	Full	0.02	0.02	2.50	1.60	5.08	3.96	9.04	24.00	Pass	
HE40	MCS0	2	099	6445	484/65	0.03	0.03	2.60	1.80	5.23	3.96	9.19	24.00	Pass	
HE40	MCS0	2	107	6485	Full	0.02	0.02	2.70	2.00	5.37	3.96	9.33	24.00	Pass	
HE40	MCS0	2	107	6485	484/65	0.03	0.03	2.80	2.10	5.47	3.96	9.43	24.00	Pass	
HE80	MCS0	2	103	6465	Full	0.00	0.00	5.30	4.60	7.97	3.96	11.93	24.00	Pass	
HE80	MCS0	2	103	6465	996/67	0.05	0.05	5.50	4.80	8.17	3.96	12.13	24.00	Pass	

U-NII-6 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE40	MCS0	2	115	6525	Full	0.02	0.02	2.80	1.50	5.21	4.30		9.51	24.00	Pass
HE40	MCS0	2	115	6525	484/65	0.03	0.03	2.90	1.70	5.35	4.30		9.65	24.00	Pass
HE80	MCS0	2	119	6545	Full	0.00	0.00	5.40	4.10	7.81	4.30		12.11	24.00	Pass
HE80	MCS0	2	119	6545	996/67	0.05	0.05	5.80	4.20	8.08	4.30		12.38	24.00	Pass
HE160	MCS0	2	111	6505	Full	0.02	0.02	7.40	6.70	10.07	4.30	14.37		24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	097	6435	Full	0.00	0.00		-10.42	6.95	-3.47	-1.00	Pass		
HE20	MCS0	2	097	6435	26/0	0.02	0.02		-10.63	6.95	-3.68	-1.00	Pass		
HE20	MCS0	2	097	6435	52/37	0.02	0.03		-10.54	6.95	-3.59	-1.00	Pass		
HE20	MCS0	2	097	6435	106/53	0.03	0.01		-10.65	6.95	-3.70	-1.00	Pass		
HE20	MCS0	2	097	6435	242/61	0.02	0.02		-10.31	6.95	-3.36	-1.00	Pass		
HE20	MCS0	2	105	6475	Full	0.00	0.00		-10.52	6.95	-3.57	-1.00	Pass		
HE20	MCS0	2	105	6475	26/4	0.02	0.02		-10.73	6.95	-3.78	-1.00	Pass		
HE20	MCS0	2	105	6475	52/38	0.02	0.03		-10.43	6.95	-3.48	-1.00	Pass		
HE20	MCS0	2	105	6475	106/53	0.03	0.01		-10.57	6.95	-3.62	-1.00	Pass		
HE20	MCS0	2	105	6475	242/61	0.02	0.02		-10.35	6.95	-3.40	-1.00	Pass		
HE20	MCS0	2	113	6515	Full	0.00	0.00		-10.40	6.95	-3.45	-1.00	Pass		
HE20	MCS0	2	113	6515	26/8	0.02	0.02		-10.73	6.95	-3.78	-1.00	Pass		
HE20	MCS0	2	113	6515	52/40	0.02	0.03		-10.62	6.95	-3.67	-1.00	Pass		
HE20	MCS0	2	113	6515	106/54	0.03	0.01		-10.70	6.95	-3.75	-1.00	Pass		
HE20	MCS0	2	113	6515	242/61	0.02	0.02		-10.31	6.95	-3.36	-1.00	Pass		
HE40	MCS0	2	099	6445	Full	0.02	0.02		-10.46	6.95	-3.51	-1.00	Pass		
HE40	MCS0	2	099	6445	484/65	0.03	0.03	-10.43	6.95	-3.48	-1.00	Pass			
HE40	MCS0	2	107	6485	Full	0.02	0.02	-10.17	6.95	-3.22	-1.00	Pass			
HE40	MCS0	2	107	6485	484/65	0.03	0.03	-10.14	6.95	-3.19	-1.00	Pass			
HE80	MCS0	2	103	6465	Full	0.00	0.00	-10.59	6.95	-3.64	-1.00	Pass			
HE80	MCS0	2	103	6465	996/67	0.05	0.05	-10.44	6.95	-3.49	-1.00	Pass			

U-NII-6 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE40	MCS0	2	115	6525	Full	0.02	0.02			-10.44	7.27	-3.17	-1.00	Pass	
HE40	MCS0	2	115	6525	484/65	0.03	0.03			-10.39	7.27	-3.12	-1.00	Pass	
HE80	MCS0	2	119	6545	Full	0.00	0.00			-10.79	7.27	-3.52	-1.00	Pass	
HE80	MCS0	2	119	6545	996/67	0.05	0.05			-10.70	7.27	-3.43	-1.00	Pass	
HE160	MCS0	2	111	6505	Full	0.00	0.00			-10.76	7.27	-3.49	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	149	6535	242/61	19.09	19.09	22.51	22.62	320.00	Pass
HE20	MCS0	2	181	6695	242/61	19.11	19.08	22.84	22.67	320.00	Pass
HE20	MCS0	2	123	6855	242/61	19.07	19.07	22.94	22.54	320.00	Pass
HE40	MCS0	2	123	6565	484/65	38.47	38.48	45.18	44.64	320.00	Pass
HE40	MCS0	2	147	6685	484/65	38.52	38.45	45.39	44.58	320.00	Pass
HE40	MCS0	2	179	6845	484/65	38.55	38.45	45.22	44.18	320.00	Pass
HE80	MCS0	2	135	6625	996/67	78.26	78.36	88.99	87.07	320.00	Pass
HE80	MCS0	2	151	6705	996/67	78.23	78.16	89.34	86.98	320.00	Pass
HE80	MCS0	2	167	6785	996/67	78.23	78.22	88.03	87.07	320.00	Pass
HE160	MCS0	2	143	6665	Full	158.58	158.72	172.51	173.09	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	117	6535	Full	0.00	0.00	-0.30	-2.00	1.94	4.30	6.24	24.00	Pass	
HE20	MCS0	2	117	6535	26/0	0.02	0.02	-10.0	-9.60	-6.79	4.30	-2.49	24.00	Pass	
HE20	MCS0	2	117	6535	52/37	0.02	0.03	-7.50	-7.20	-4.34	4.30	-0.04	24.00	Pass	
HE20	MCS0	2	117	6535	106/53	0.03	0.01	-4.00	-3.70	-0.84	4.30	3.46	24.00	Pass	
HE20	MCS0	2	117	6535	242/61	0.02	0.02	-0.20	-1.90	2.04	4.30	6.34	24.00	Pass	
HE20	MCS0	2	149	6695	Full	0.00	0.00	-1.30	-0.80	1.97	4.30	6.27	24.00	Pass	
HE20	MCS0	2	149	6695	26/4	0.02	0.02	-9.40	-8.80	-6.08	4.30	-1.78	24.00	Pass	
HE20	MCS0	2	149	6695	52/38	0.02	0.03	-7.20	-6.50	-3.83	4.30	0.47	24.00	Pass	
HE20	MCS0	2	149	6695	106/53	0.03	0.01	-4.10	-3.40	-0.73	4.30	3.57	24.00	Pass	
HE20	MCS0	2	149	6695	242/61	0.02	0.02	-1.20	-0.70	2.07	4.30	6.37	24.00	Pass	
HE20	MCS0	2	181	6855	Full	0.00	0.00	0.20	-1.20	2.57	4.30	6.87	24.00	Pass	
HE20	MCS0	2	181	6855	26/8	0.02	0.02	-9.20	-9.70	-6.43	4.30	-2.13	24.00	Pass	
HE20	MCS0	2	181	6855	52/40	0.02	0.03	-6.20	-6.60	-3.39	4.30	0.91	24.00	Pass	
HE20	MCS0	2	181	6855	106/54	0.03	0.01	-3.30	-3.60	-0.44	4.30	3.86	24.00	Pass	
HE20	MCS0	2	181	6855	242/61	0.02	0.02	0.30	-1.10	2.67	4.30	6.97	24.00	Pass	
HE40	MCS0	2	123	6565	Full	0.02	0.02	2.70	1.20	5.02	4.30	9.32	24.00	Pass	
HE40	MCS0	2	123	6565	484/65	0.03	0.03	2.80	1.30	5.12	4.30	9.42	24.00	Pass	
HE40	MCS0	2	147	6685	Full	0.02	0.02	2.20	2.20	5.21	4.30	9.51	24.00	Pass	
HE40	MCS0	2	147	6685	484/65	0.03	0.03	2.30	2.30	5.31	4.30	9.61	24.00	Pass	
HE40	MCS0	2	179	6845	Full	0.02	0.02	3.00	1.80	5.45	4.30	9.75	24.00	Pass	
HE40	MCS0	2	179	6845	484/65	0.03	0.03	3.10	1.90	5.55	4.30	9.85	24.00	Pass	
HE80	MCS0	2	135	6625	Full	0.00	0.00	5.00	4.00	7.54	4.30	11.84	24.00	Pass	
HE80	MCS0	2	135	6625	996/67	0.05	0.05	5.10	4.10	7.64	4.30	11.94	24.00	Pass	
HE80	MCS0	2	151	6705	Full	0.00	0.00	5.40	4.70	8.07	4.30	12.37	24.00	Pass	
HE80	MCS0	2	151	6705	996/67	0.05	0.05	5.50	4.80	8.17	4.30	12.47	24.00	Pass	
HE80	MCS0	2	167	6785	Full	0.00	0.00	5.80	5.20	8.52	4.30	12.82	24.00	Pass	
HE80	MCS0	2	167	6785	996/67	0.05	0.05	5.90	5.30	8.62	4.30	12.92	24.00	Pass	
HE160	MCS0	2	143	6665	Full	0.02	0.02	7.80	6.90	10.38	4.30	14.68	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	117	6535	Full	0.00	0.00			-10.46	7.27		-3.19	-1.00	Pass
HE20	MCS0	2	117	6535	26/0	0.02	0.02			-10.34	7.27		-3.07	-1.00	Pass
HE20	MCS0	2	117	6535	52/37	0.02	0.03			-10.80	7.27		-3.53	-1.00	Pass
HE20	MCS0	2	117	6535	106/53	0.03	0.01			-10.43	7.27		-3.16	-1.00	Pass
HE20	MCS0	2	117	6535	242/61	0.02	0.02			-10.31	7.27		-3.04	-1.00	Pass
HE20	MCS0	2	149	6695	Full	0.00	0.00			-10.57	7.27		-3.30	-1.00	Pass
HE20	MCS0	2	149	6695	26/4	0.02	0.02			-10.81	7.27		-3.54	-1.00	Pass
HE20	MCS0	2	149	6695	52/38	0.02	0.03			-10.53	7.27		-3.26	-1.00	Pass
HE20	MCS0	2	149	6695	106/53	0.03	0.01			-10.57	7.27		-3.30	-1.00	Pass
HE20	MCS0	2	149	6695	242/61	0.02	0.02			-10.50	7.27		-3.23	-1.00	Pass
HE20	MCS0	2	181	6855	Full	0.00	0.00			-10.54	7.27		-3.27	-1.00	Pass
HE20	MCS0	2	181	6855	26/8	0.02	0.02			-10.55	7.27		-3.28	-1.00	Pass
HE20	MCS0	2	181	6855	52/40	0.02	0.03			-10.49	7.27		-3.22	-1.00	Pass
HE20	MCS0	2	181	6855	106/54	0.03	0.01			-10.66	7.27		-3.39	-1.00	Pass
HE20	MCS0	2	181	6855	242/61	0.02	0.02			-10.48	7.27		-3.21	-1.00	Pass
HE40	MCS0	2	123	6565	Full	0.02	0.02			-10.47	7.27		-3.20	-1.00	Pass
HE40	MCS0	2	123	6565	484/65	0.03	0.03			-10.45	7.27		-3.18	-1.00	Pass
HE40	MCS0	2	147	6685	Full	0.02	0.02			-10.59	7.27		-3.32	-1.00	Pass
HE40	MCS0	2	147	6685	484/65	0.03	0.03			-10.50	7.27		-3.23	-1.00	Pass
HE40	MCS0	2	179	6845	Full	0.02	0.02			-10.49	7.27		-3.22	-1.00	Pass
HE40	MCS0	2	179	6845	484/65	0.03	0.03		-10.41	7.27		-3.14	-1.00	Pass	
HE80	MCS0	2	135	6625	Full	0.00	0.00		-10.85	7.27		-3.58	-1.00	Pass	
HE80	MCS0	2	135	6625	996/67	0.05	0.05		-10.75	7.27		-3.48	-1.00	Pass	
HE80	MCS0	2	151	6705	Full	0.00	0.00		-10.61	7.27		-3.34	-1.00	Pass	
HE80	MCS0	2	151	6705	996/67	0.05	0.05		-10.51	7.27		-3.24	-1.00	Pass	
HE80	MCS0	2	167	6785	Full	0.00	0.00		-10.44	7.27		-3.17	-1.00	Pass	
HE80	MCS0	2	167	6785	996/67	0.05	0.05		-10.29	7.27	-3.02	-1.00	Pass		
HE160	MCS0	2	143	6665	Full	0.02	0.02		-10.69	7.27	-3.42	-1.00	Pass		

TEST RESULTS DATA
26dB EBW and 99% OBW

U-NII-8 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	209	6995	242/61	19.12	19.11	22.10	22.03	320.00	Pass
HE20	MCS0	2	209	7095	242/61	19.07	19.07	22.55	22.54	320.00	Pass
HE40	MCS0	2	203	6965	484/65	38.40	38.42	45.87	44.64	320.00	Pass
HE40	MCS0	2	227	7085	484/65	38.39	38.42	44.53	44.38	320.00	Pass
HE80	MCS0	2	199	6945	996/67	78.08	78.10	89.79	89.95	320.00	Pass
HE80	MCS0	2	215	7025	996/67	77.88	77.99	88.10	87.62	320.00	Pass
HE160	MCS0	2	207	6985	Full	158.10	158.12	175.63	173.90	320.00	Pass

U-NII-8 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	185	6875	242/61	19.09	19.09	22.56	22.66	320.00	Pass
HE40	MCS0	2	187	6885	484/65	38.53	38.50	45.44	44.38	320.00	Pass
HE80	MCS0	2	183	6865	996/67	78.27	78.35	88.54	87.36	320.00	Pass
HE160	MCS0	2	175	6825	Full	158.72	158.84	173.62	173.23	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	209	6995	Full	0.00	0.00	-1.60	-2.50	0.98	3.57	4.55	24.00	Pass	
HE20	MCS0	2	209	6995	26/4	0.02	0.02	-7.90	-8.60	-5.23	3.57	-1.66	24.00	Pass	
HE20	MCS0	2	209	6995	52/38	0.02	0.03	-5.80	-6.40	-3.08	3.57	0.49	24.00	Pass	
HE20	MCS0	2	209	6995	106/53	0.03	0.01	-3.10	-3.60	-0.33	3.57	3.24	24.00	Pass	
HE20	MCS0	2	209	6995	242/61	0.02	0.02	-1.50	-2.40	1.08	3.57	4.65	24.00	Pass	
HE20	MCS0	2	229	7095	Full	0.00	0.00	-1.20	-0.70	2.07	3.57	5.64	24.00	Pass	
HE20	MCS0	2	229	7095	26/8	0.02	0.02	-9.60	-9.60	-6.59	3.57	-3.02	24.00	Pass	
HE20	MCS0	2	229	7095	52/40	0.02	0.03	-6.60	-6.70	-3.64	3.57	-0.07	24.00	Pass	
HE20	MCS0	2	229	7095	106/54	0.03	0.01	-3.70	-3.70	-0.69	3.57	2.88	24.00	Pass	
HE20	MCS0	2	229	7095	242/61	0.02	0.02	-1.10	-0.60	2.17	3.57	5.74	24.00	Pass	
HE40	MCS0	2	203	6965	Full	0.02	0.02	3.00	2.10	5.58	3.57	9.15	24.00	Pass	
HE40	MCS0	2	203	6965	484/65	0.03	0.03	3.10	2.20	5.68	3.57	9.25	24.00	Pass	
HE40	MCS0	2	227	7085	Full	0.02	0.02	2.10	2.00	5.06	3.57	8.63	24.00	Pass	
HE40	MCS0	2	227	7085	484/65	0.03	0.03	2.20	2.20	5.21	3.57	8.78	24.00	Pass	
HE80	MCS0	2	199	6945	Full	0.00	0.00	5.90	4.90	8.44	3.57	12.01	24.00	Pass	
HE80	MCS0	2	199	6945	996/67	0.05	0.05	6.20	5.30	8.78	3.57	12.35	24.00	Pass	
HE80	MCS0	2	215	7025	Full	0.00	0.00	5.20	4.00	7.65	3.57	11.22	24.00	Pass	
HE80	MCS0	2	215	7025	996/67	0.05	0.05	5.30	4.10	7.75	3.57	11.32	24.00	Pass	
HE160	MCS0	2	207	6985	Full	0.02	0.02	8.30	7.00	10.71	3.57	14.28	24.00	Pass	

U-NII-8 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1			
HE20	MCS0	2	185	6875	Full	0.00	0.00	-0.30	-0.90	2.42	4.30	6.72	24.00	Pass	
HE20	MCS0	2	185	6875	26/0	0.02	0.02	-9.50	-10.0	-6.73	4.30	-2.43	24.00	Pass	
HE20	MCS0	2	185	6875	52/37	0.02	0.03	-6.60	-7.10	-3.83	4.30	0.47	24.00	Pass	
HE20	MCS0	2	185	6875	106/53	0.03	0.01	-3.30	-3.60	-0.44	4.30	3.86	24.00	Pass	
HE20	MCS0	2	185	6875	242/61	0.02	0.02	-0.20	-0.70	2.57	4.30	6.87	24.00	Pass	
HE40	MCS0	2	187	6885	Full	0.02	0.02	2.80	1.80	5.34	4.30	9.64	24.00	Pass	
HE40	MCS0	2	187	6885	484/65	0.03	0.03	2.90	1.90	5.44	4.30	9.74	24.00	Pass	
HE80	MCS0	2	183	6865	Full	0.00	0.00	6.20	5.10	8.70	4.30	13.00	24.00	Pass	
HE80	MCS0	2	183	6865	996/67	0.05	0.05	6.30	5.20	8.80	4.30	13.10	24.00	Pass	
HE160	MCS0	2	175	6825	Full	0.02	0.02	7.60	7.00	10.32	4.30	14.62	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

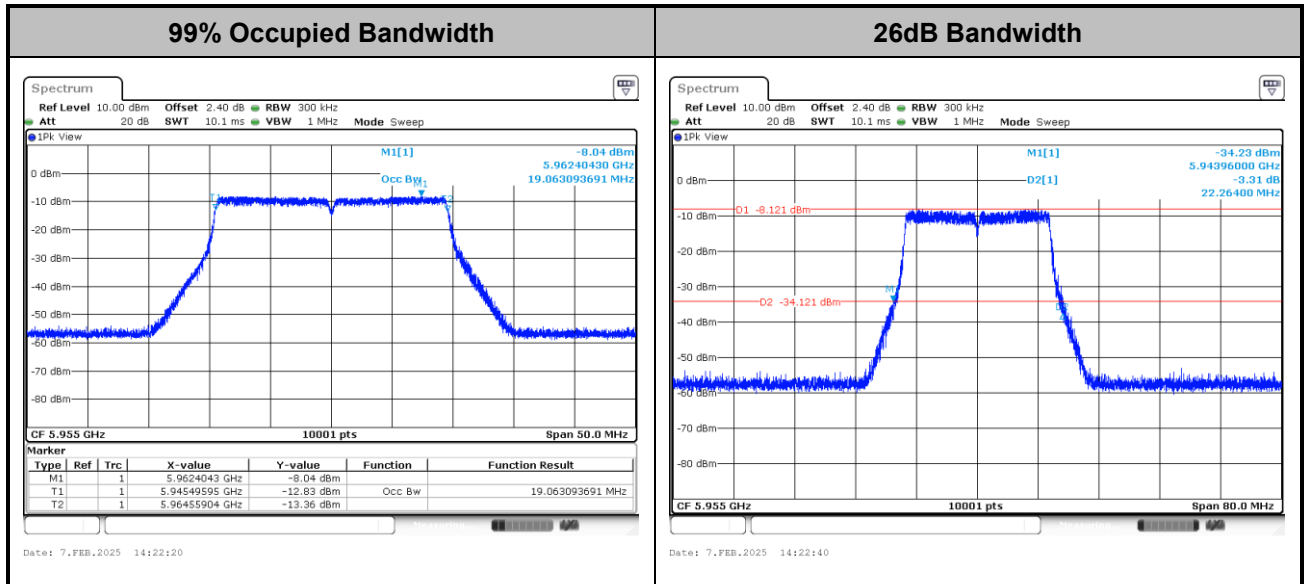
U-NII-8 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	209	6995	Full	0.00	0.00			-10.29	6.58		-3.71	-1.00	Pass
HE20	MCS0	2	209	6995	26/4	0.02	0.02			-10.37	6.58		-3.79	-1.00	Pass
HE20	MCS0	2	209	6995	52/38	0.02	0.03			-10.17	6.58		-3.59	-1.00	Pass
HE20	MCS0	2	209	6995	106/53	0.03	0.01			-10.39	6.58		-3.81	-1.00	Pass
HE20	MCS0	2	209	6995	242/61	0.02	0.02			-10.07	6.58		-3.49	-1.00	Pass
HE20	MCS0	2	229	7095	Full	0.00	0.00			-9.82	6.58		-3.24	-1.00	Pass
HE20	MCS0	2	229	7095	26/8	0.02	0.02			-9.79	6.58		-3.21	-1.00	Pass
HE20	MCS0	2	229	7095	52/40	0.02	0.03			-9.77	6.58		-3.19	-1.00	Pass
HE20	MCS0	2	229	7095	106/54	0.03	0.01			-9.76	6.58		-3.18	-1.00	Pass
HE20	MCS0	2	229	7095	242/61	0.02	0.02			-9.71	6.58		-3.13	-1.00	Pass
HE40	MCS0	2	203	6965	Full	0.02	0.02			-9.92	6.58		-3.34	-1.00	Pass
HE40	MCS0	2	203	6965	484/65	0.03	0.03			-9.85	6.58		-3.27	-1.00	Pass
HE40	MCS0	2	227	7085	Full	0.02	0.02			-9.70	6.58		-3.12	-1.00	Pass
HE40	MCS0	2	227	7085	484/65	0.03	0.03			-9.59	6.58		-3.01	-1.00	Pass
HE80	MCS0	2	199	6945	Full	0.00	0.00			-10.77	6.58		-4.19	-1.00	Pass
HE80	MCS0	2	199	6945	996/67	0.05	0.05			-10.02	6.58		-3.44	-1.00	Pass
HE80	MCS0	2	215	7025	Full	0.00	0.00		-9.89	6.58		-3.31	-1.00	Pass	
HE80	MCS0	2	215	7025	996/67	0.05	0.05		-9.85	6.58		-3.27	-1.00	Pass	
HE160	MCS0	2	207	6985	Full	0.02	0.02		-9.68	6.58		-3.10	-1.00	Pass	

U-NII-8 MIMO															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	SUM		
HE20	MCS0	2	185	6875	Full	0.00	0.00			-10.75	7.27		-3.48	-1.00	Pass
HE20	MCS0	2	185	6875	26/0	0.02	0.02			-10.99	7.27		-3.72	-1.00	Pass
HE20	MCS0	2	185	6875	52/37	0.02	0.03			-10.85	7.27		-3.58	-1.00	Pass
HE20	MCS0	2	185	6875	106/53	0.03	0.01			-10.62	7.27		-3.35	-1.00	Pass
HE20	MCS0	2	185	6875	242/61	0.02	0.02			-10.56	7.27		-3.29	-1.00	Pass
HE40	MCS0	2	187	6885	Full	0.02	0.02			-10.50	7.27		-3.23	-1.00	Pass
HE40	MCS0	2	187	6885	484/65	0.03	0.03			-10.38	7.27		-3.11	-1.00	Pass
HE80	MCS0	2	183	6865	Full	0.00	0.00			-10.76	7.27		-3.49	-1.00	Pass
HE80	MCS0	2	183	6865	996/67	0.05	0.05			-10.49	7.27		-3.22	-1.00	Pass
HE160	MCS0	2	175	6825	Full	0.02	0.02			-10.59	7.27		-3.32	-1.00	Pass

**Test Result of 26dB & 99% Occupied Bandwidth**

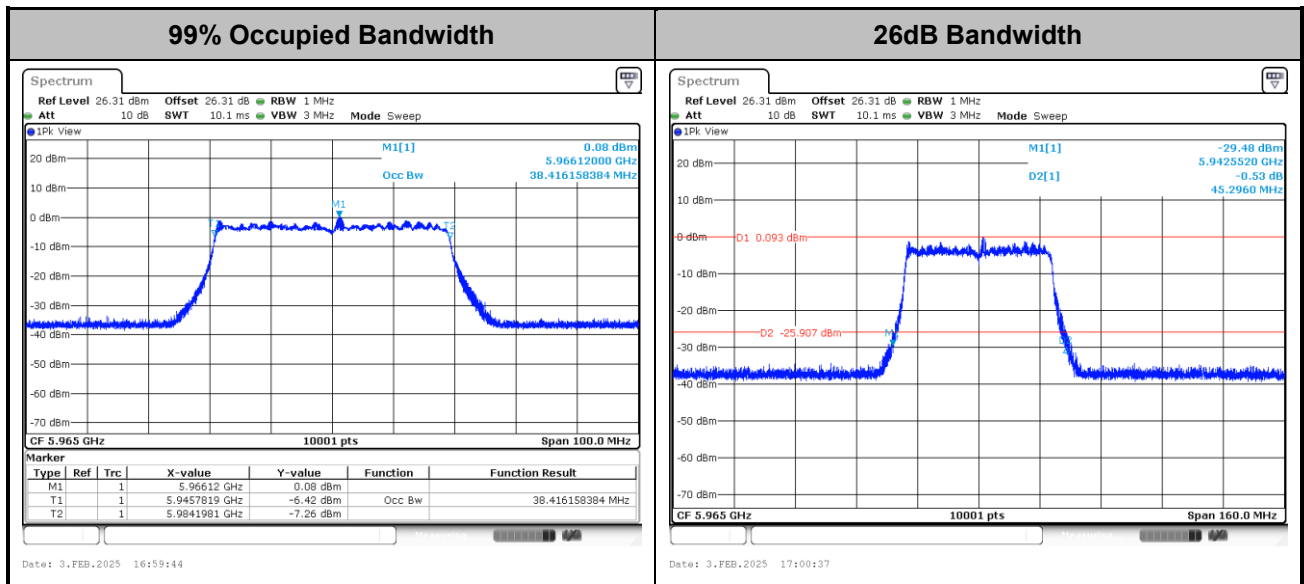
MIMO <Ant. 0+1>

<802.11ax HE20>

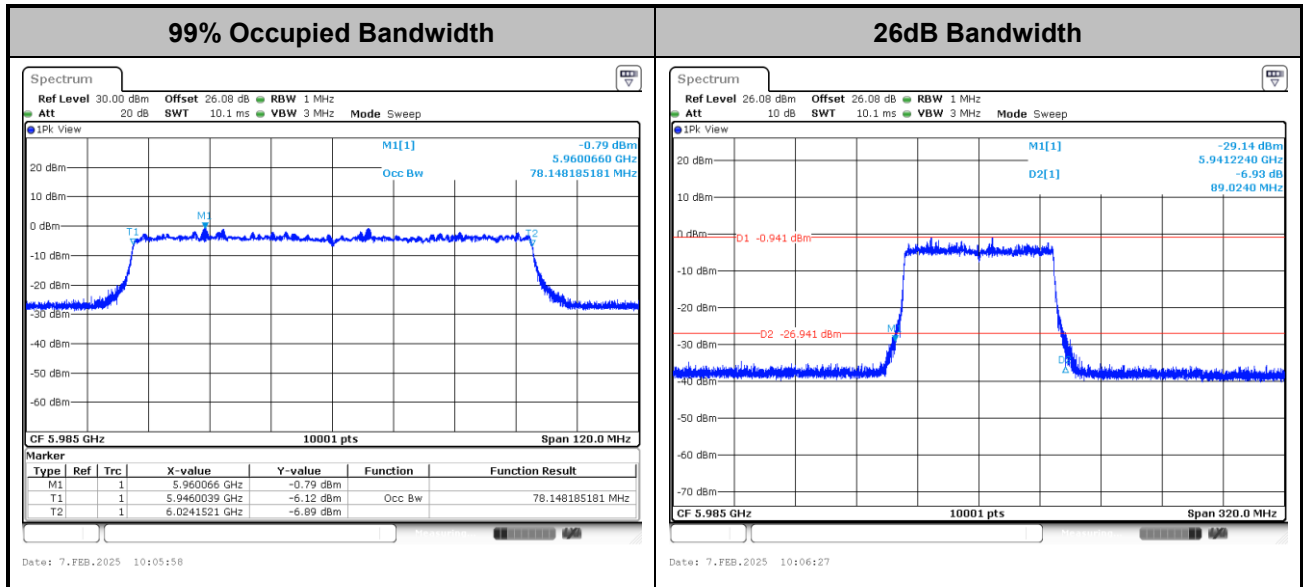
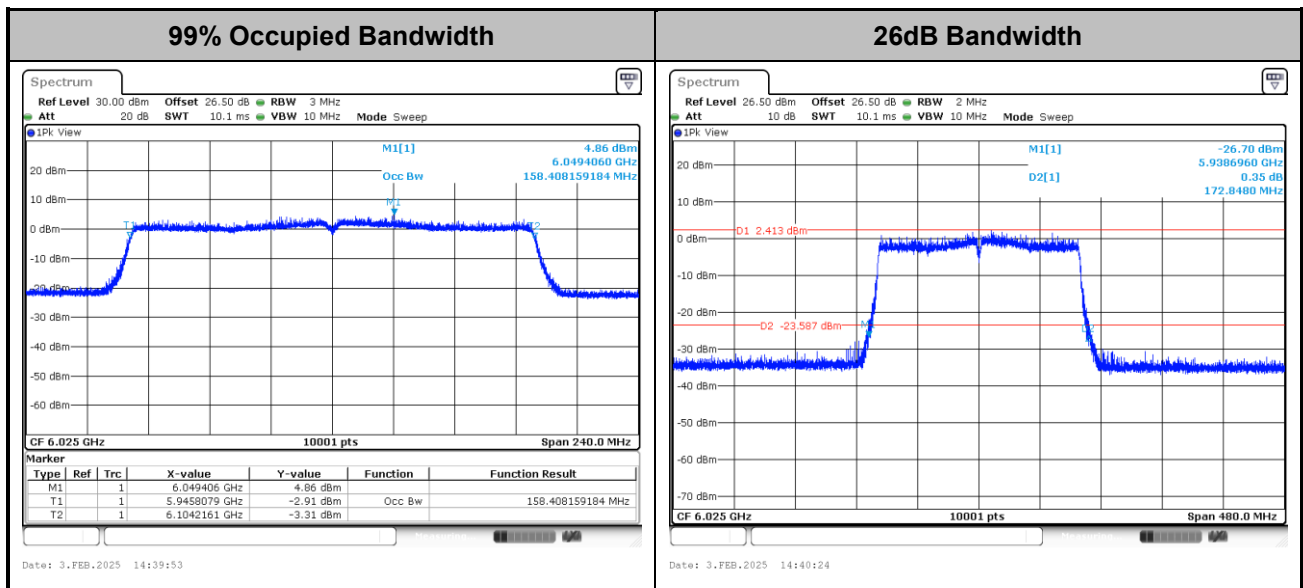


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

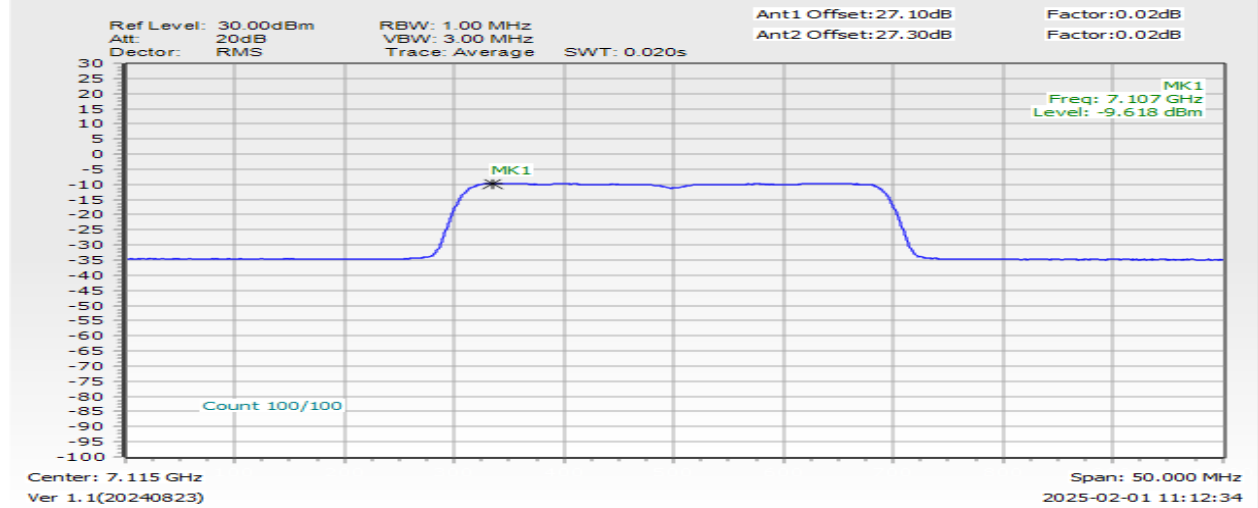


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

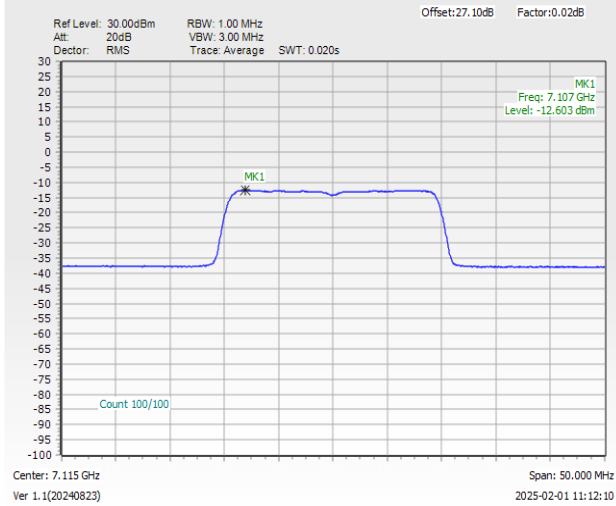
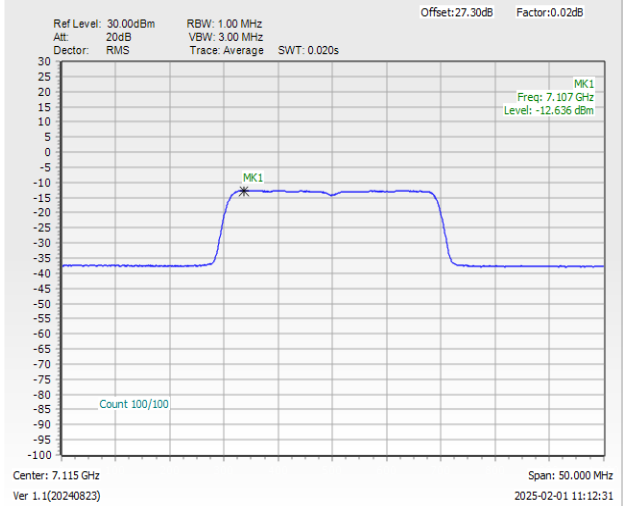
**<802.11ax HE80>****<802.11ax HE160>**

**Test Result of Power Spectral Density**

<802.11ax HE20>

Maximum Power Density Plot (dBm/MHz)**Note:**

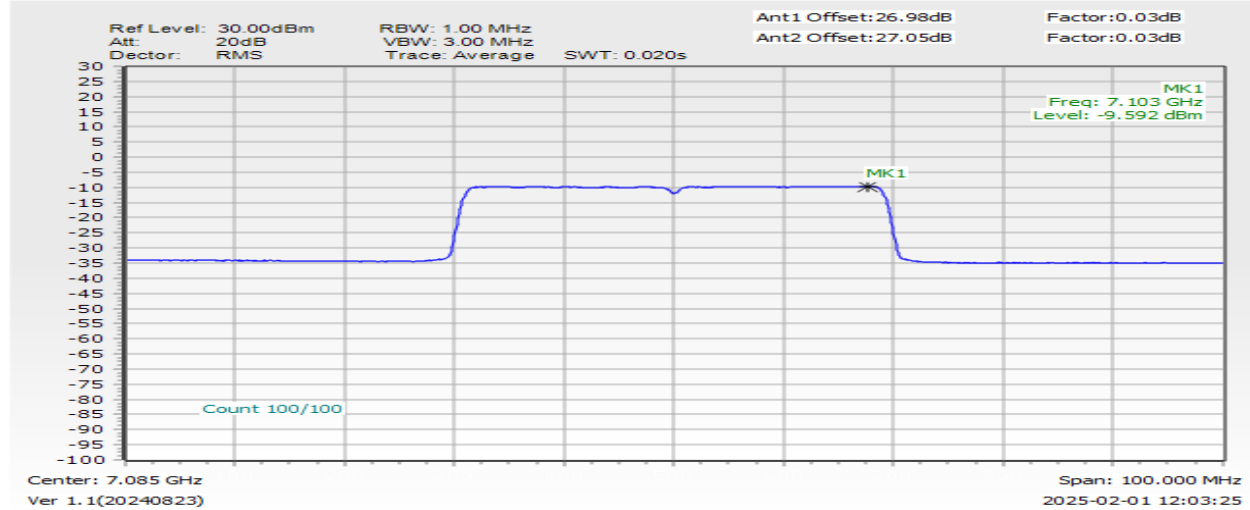
1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 1)**Power Density Plot Trace 2 (Ant 2)**



<802.11ax HE40>

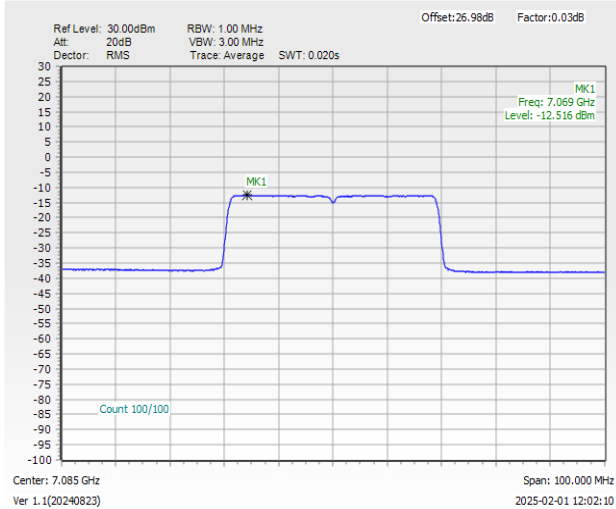
Maximum Power Density Plot (dBm/MHz)



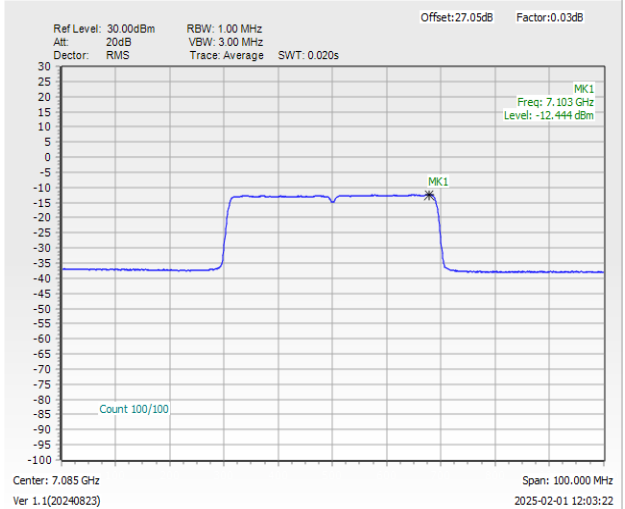
Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 1)



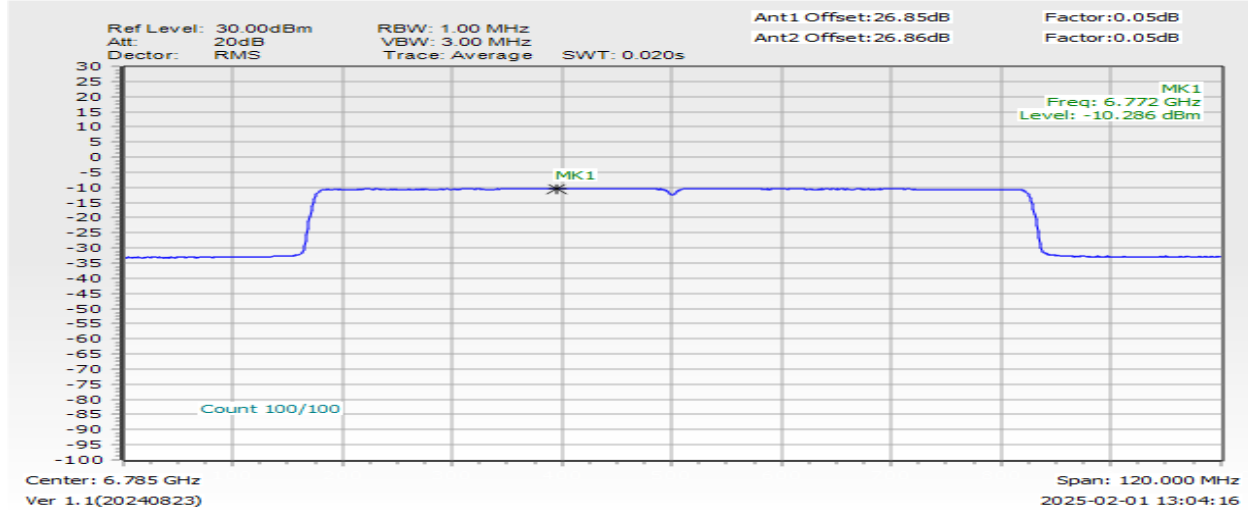
Power Density Plot Trace 2 (Ant 2)





<802.11ax HE80>

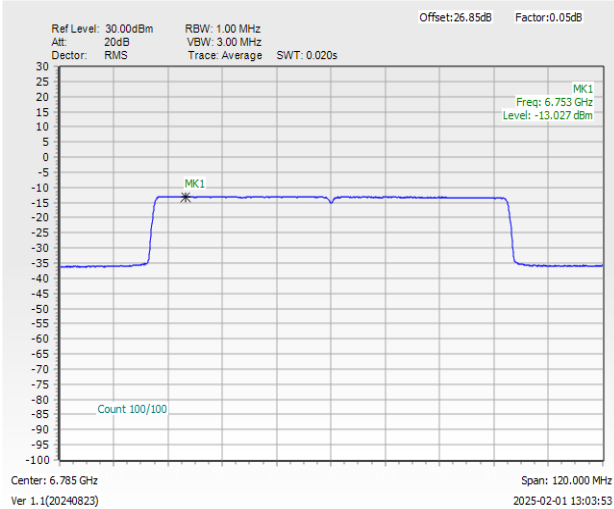
Maximum Power Density Plot (dBm/MHz)



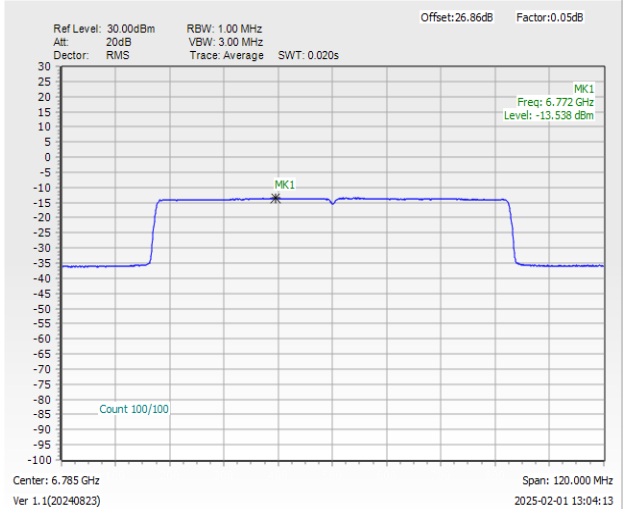
Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 1)



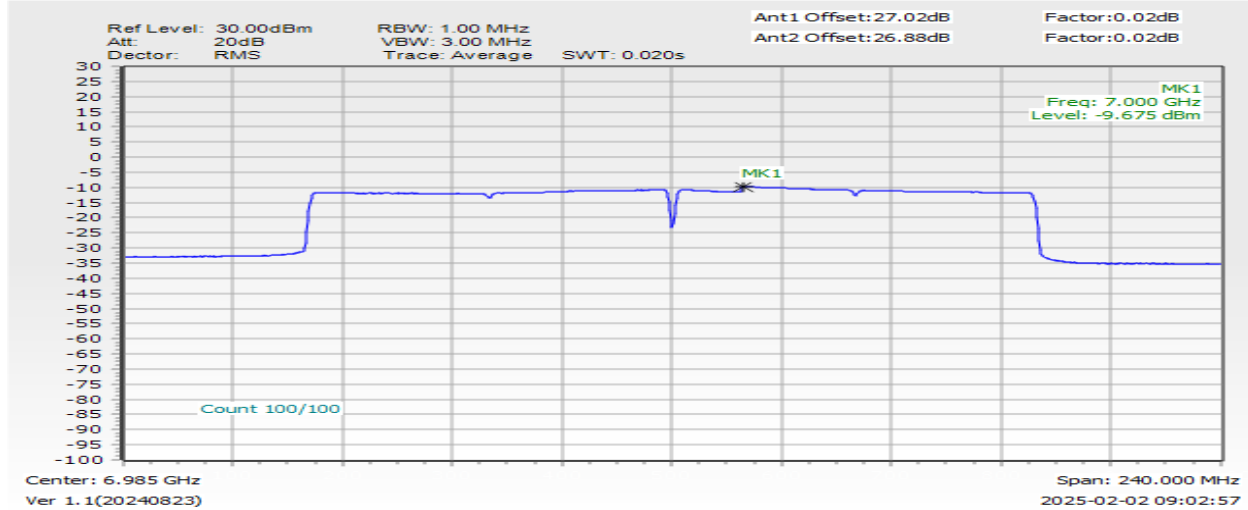
Power Density Plot Trace 2 (Ant 2)





<802.11ax HE160>

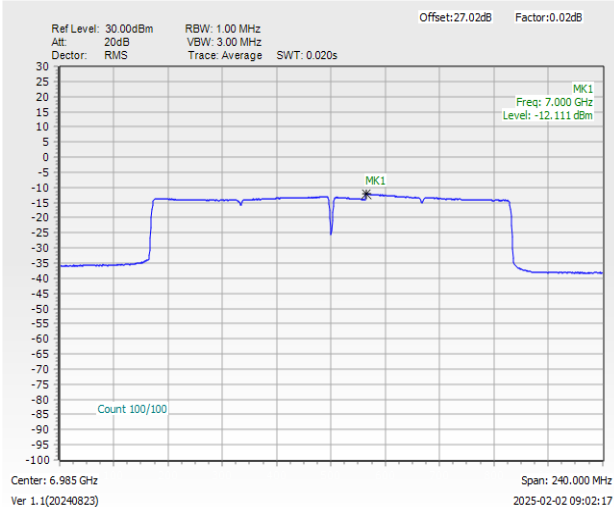
Maximum Power Density Plot (dBm/MHz)



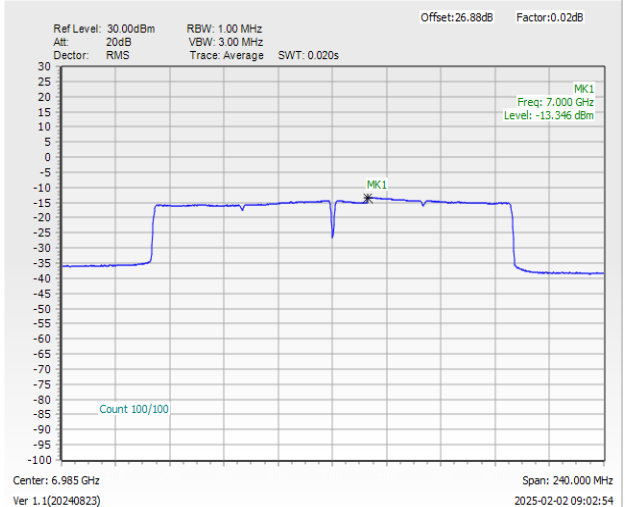
Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 1)



Power Density Plot Trace 2 (Ant 2)





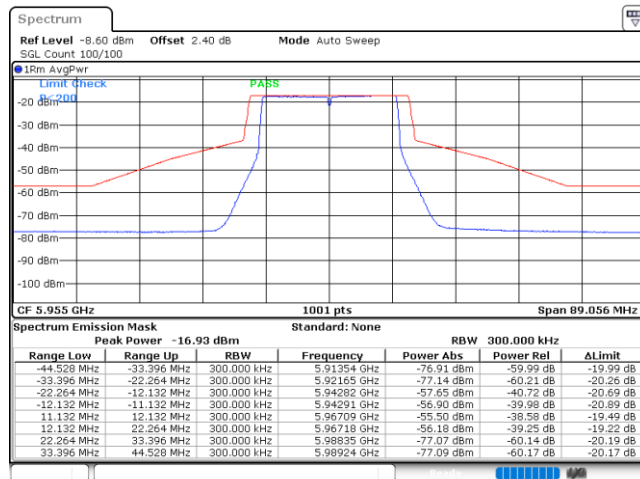
In-Band Emissions (Channel Mask)

MIMO <Ant. 0+1(0)>

EUT Mode

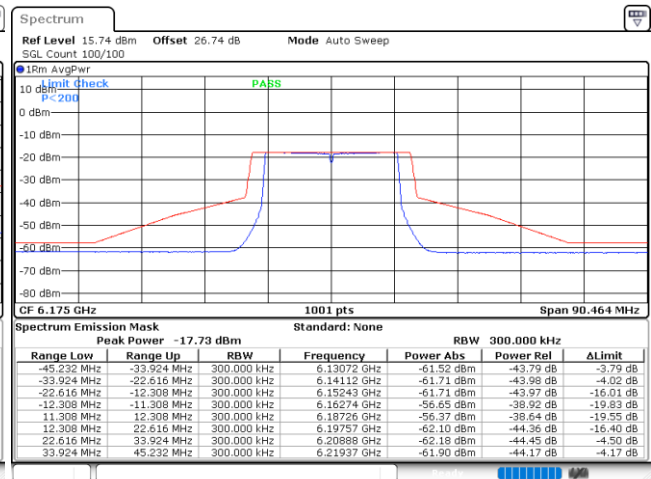
802.11ax HE20 242RU61

Plot on 5955 MHz



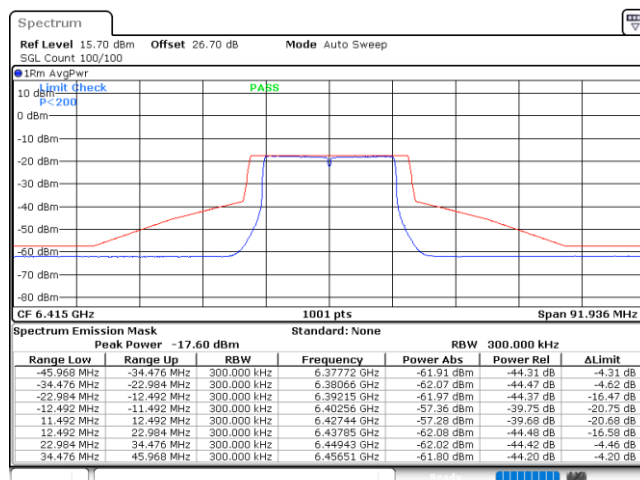
Date: 7.FEB.2025 14:23:10

Plot on 6175 MHz



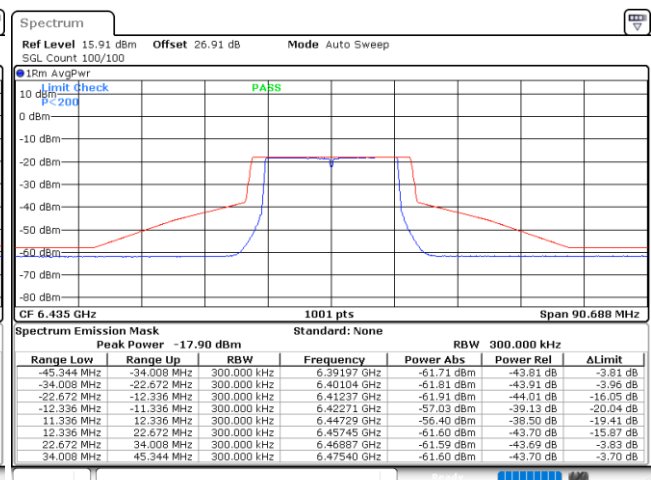
Date: 3.FEB.2025 15:39:48

Plot on 6415 MHz



Date: 3.FEB.2025 15:43:13

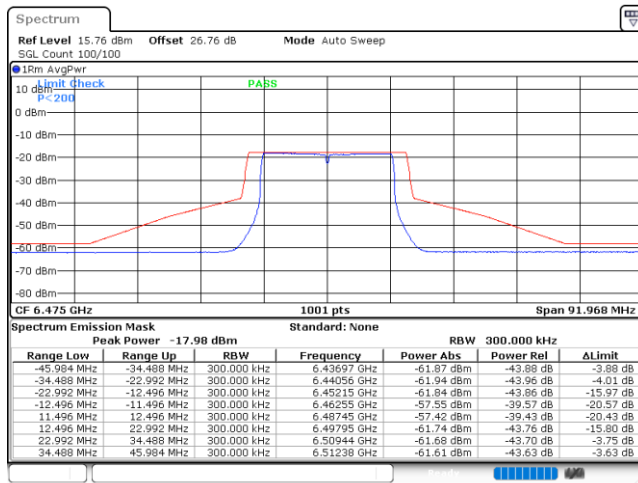
Plot on 6435 MHz



Date: 3.FEB.2025 15:46:43

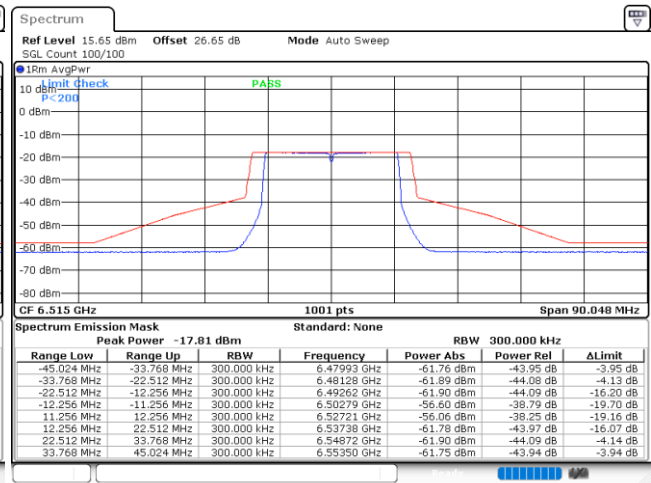


Plot on 6475 MHz



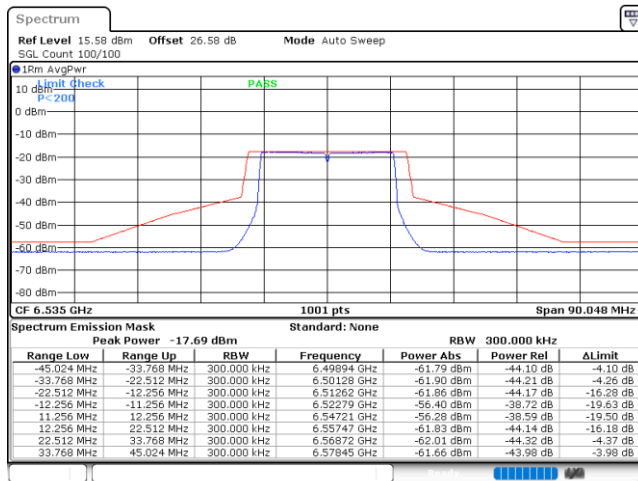
Date: 3.FEB.2025 15:50:17

Plot on 6515 MHz



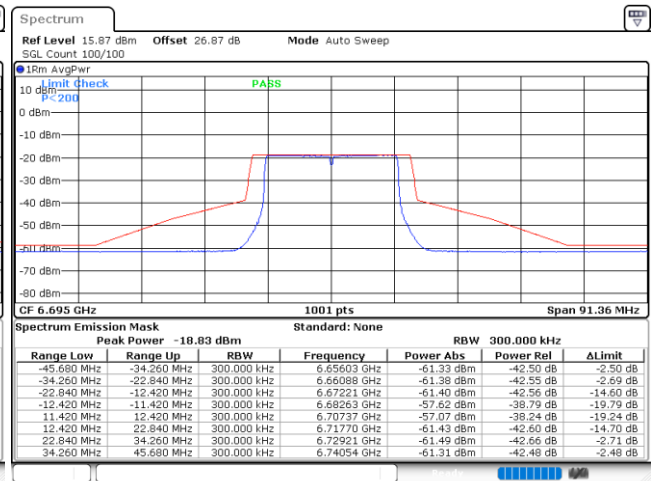
Date: 3.FEB.2025 15:57:05

Plot on 6535 MHz



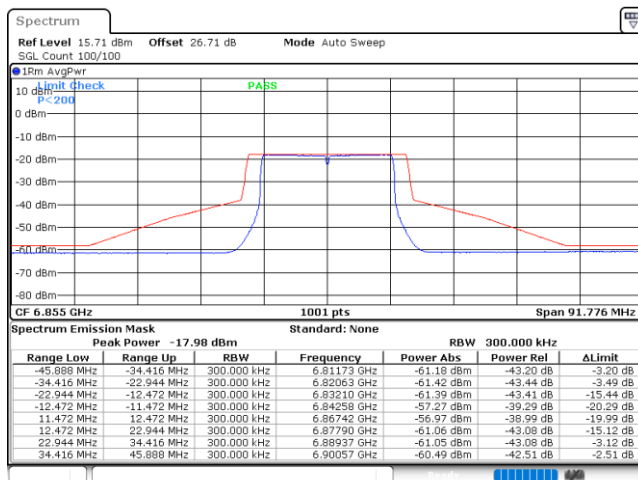
Date: 3.FEB.2025 16:00:22

Plot on 6695 MHz



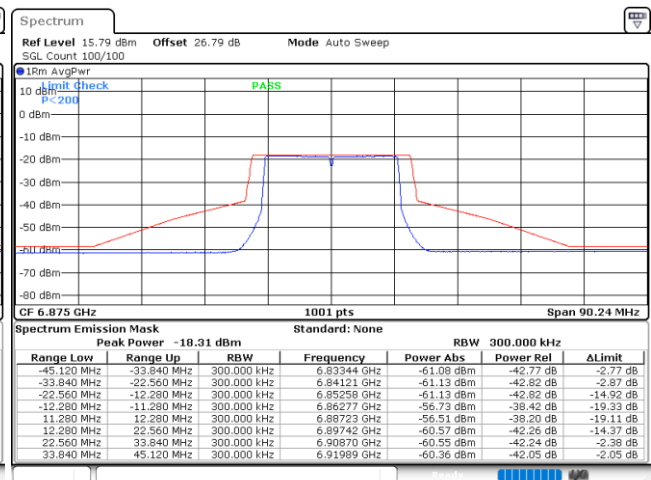
Date: 3.FEB.2025 16:08:28

Plot on 6855 MHz



Date: 3.FEB.2025 16:37:29

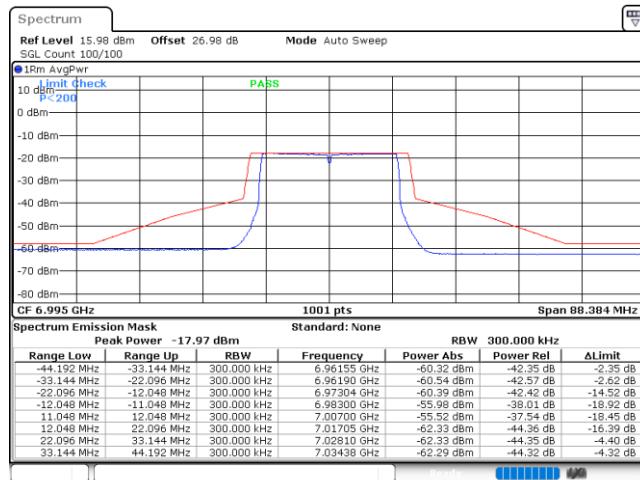
Plot on 6875 MHz



Date: 3.FEB.2025 16:42:08

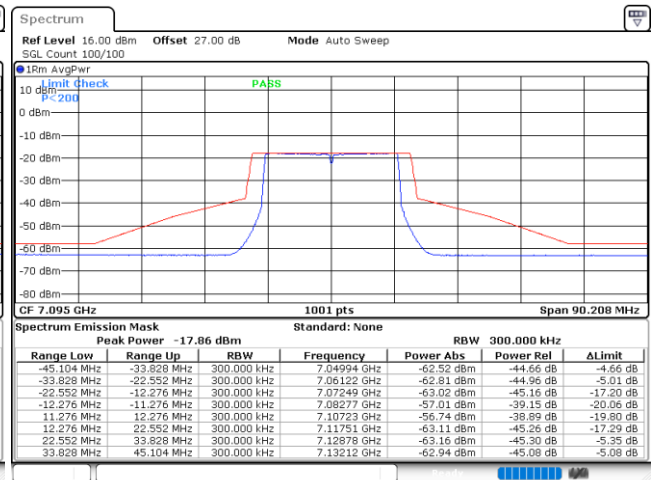


Plot on 6995 MHz



Date: 3.FEB.2025 16:45:58

Plot on 7095 MHz



Date: 3.FEB.2025 16:49:43

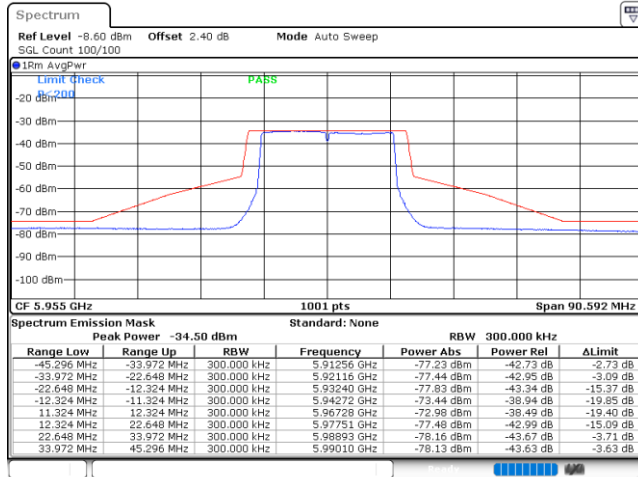


MIMO <Ant. 0+1(1)>

EUT Mode

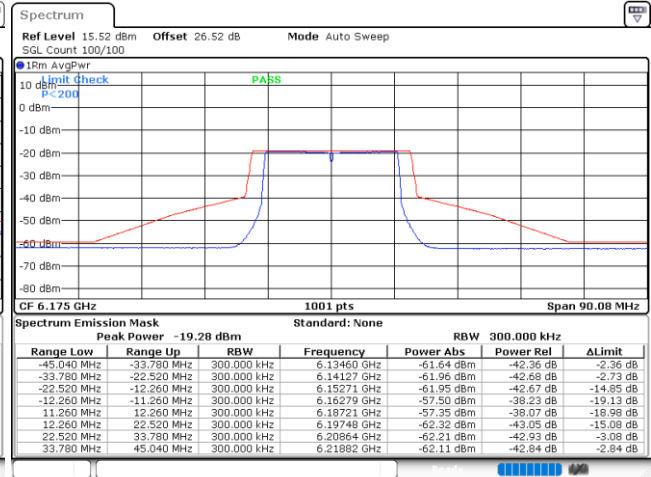
802.11ax HE20 242RU61

Plot on 5955 MHz



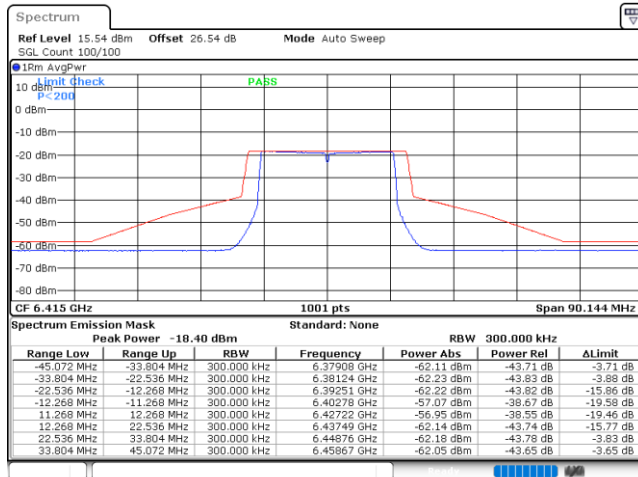
Date: 7.FEB.2025 14:16:41

Plot on 6175 MHz



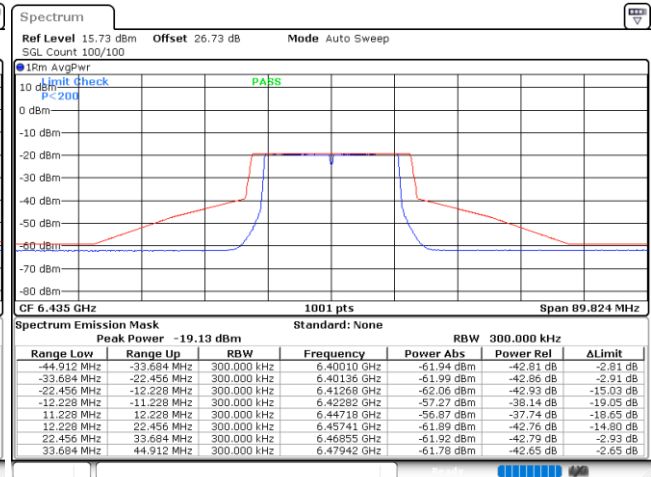
Date: 3.FEB.2025 15:40:59

Plot on 6415 MHz



Date: 3.FEB.2025 15:44:32

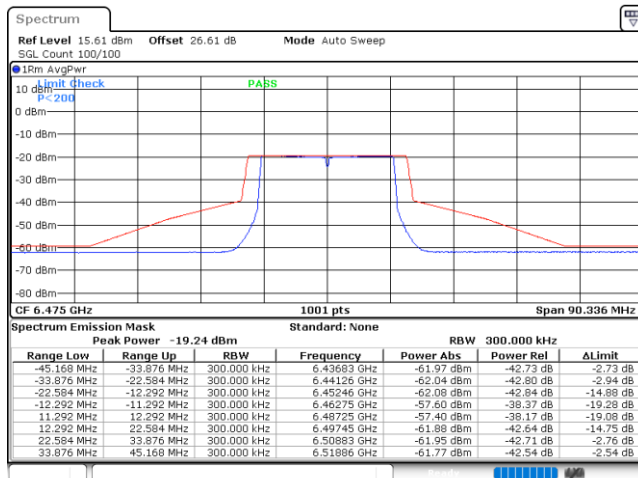
Plot on 6435 MHz



Date: 3.FEB.2025 15:48:26

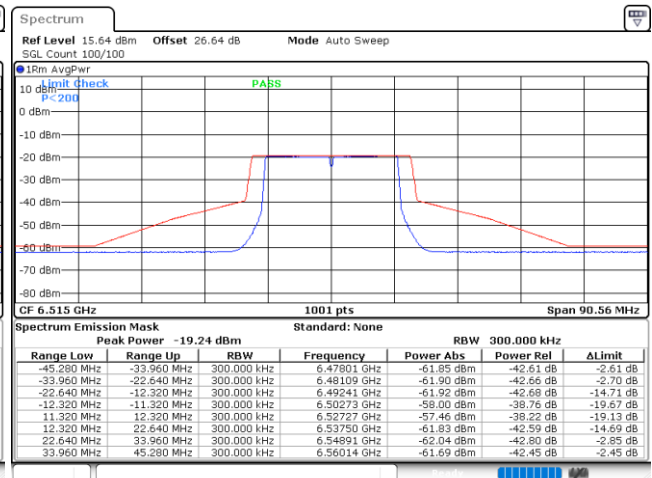


Plot on 6475 MHz



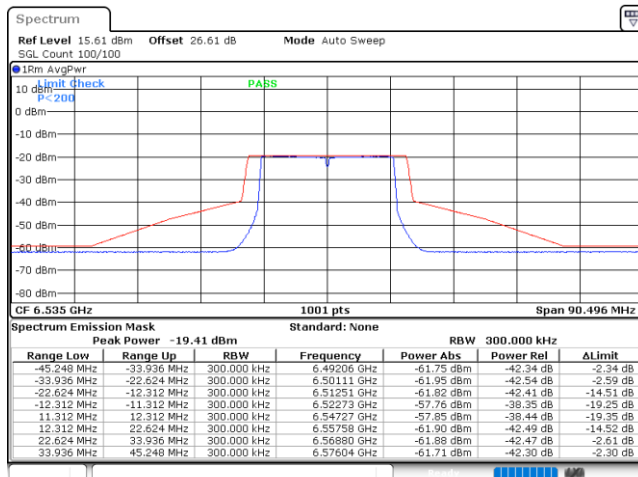
Date: 3.FEB.2025 15:53:26

Plot on 6515 MHz



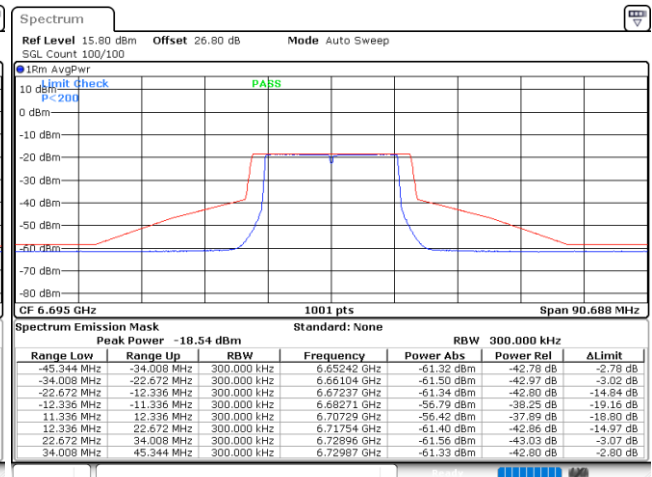
Date: 3.FEB.2025 15:58:30

Plot on 6535 MHz



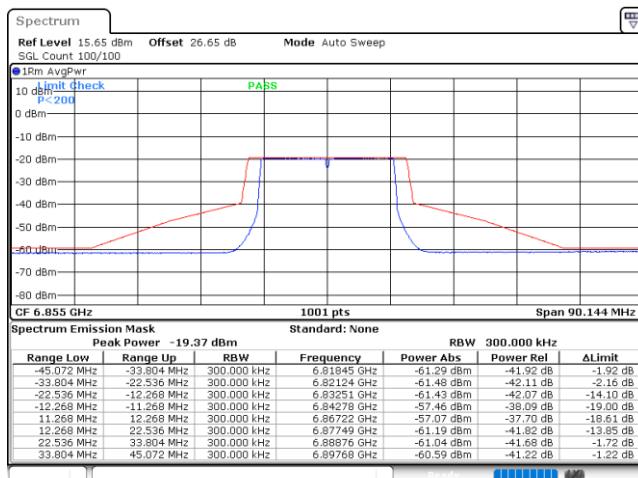
Date: 3.FEB.2025 16:01:45

Plot on 6695 MHz



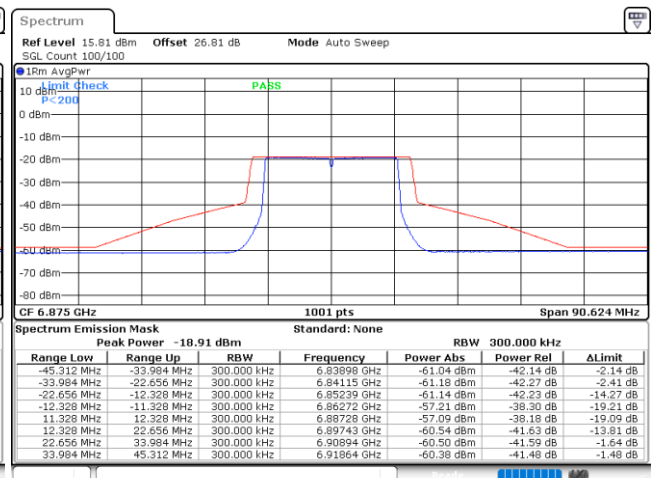
Date: 3.FEB.2025 16:09:44

Plot on 6855 MHz



Date: 3.FEB.2025 16:39:19

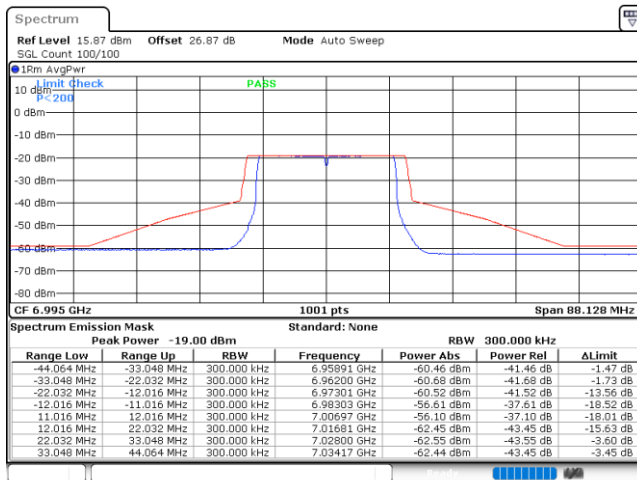
Plot on 6875 MHz



Date: 3.FEB.2025 16:43:46

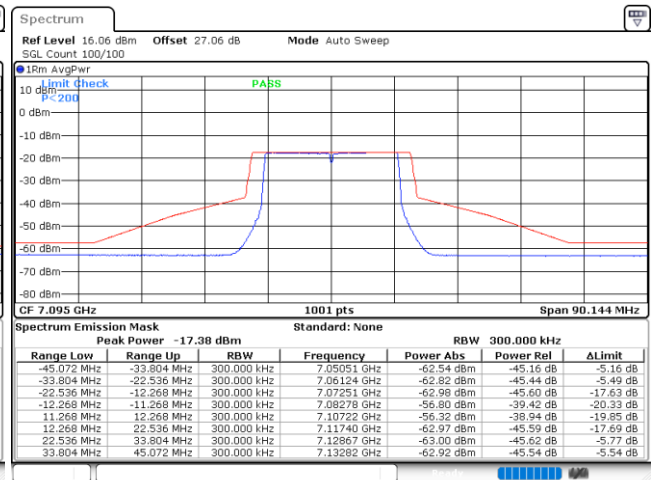


Plot on 6995 MHz



Date: 3.FEB.2025 16:47:28

Plot on 7095 MHz



Date: 3.FEB.2025 16:52:29

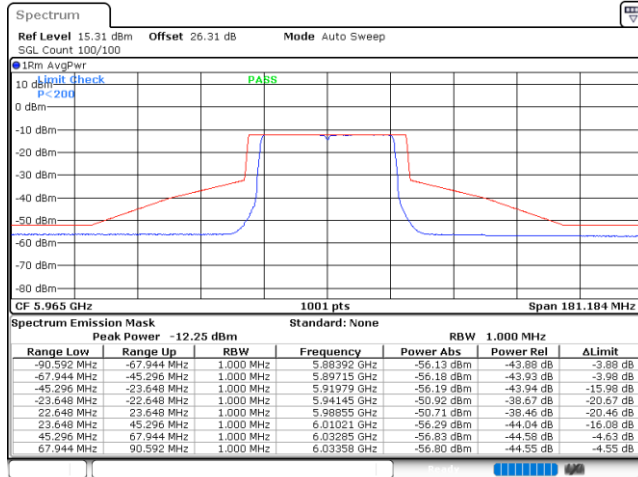


MIMO <Ant. 0+1(0)>

EUT Mode

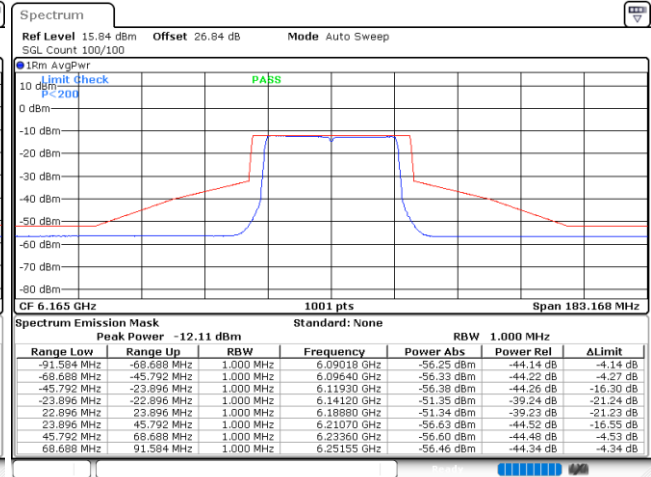
802.11ax HE40 484RU65

Plot on 5965 MHz



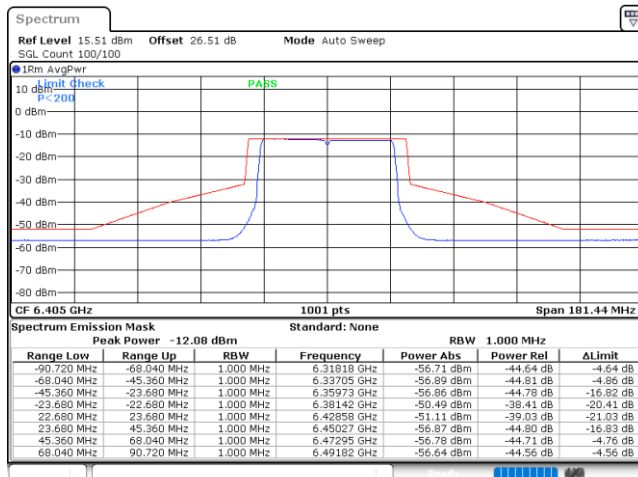
Date: 3.FEB.2025 17:01:18

Plot on 6165 MHz



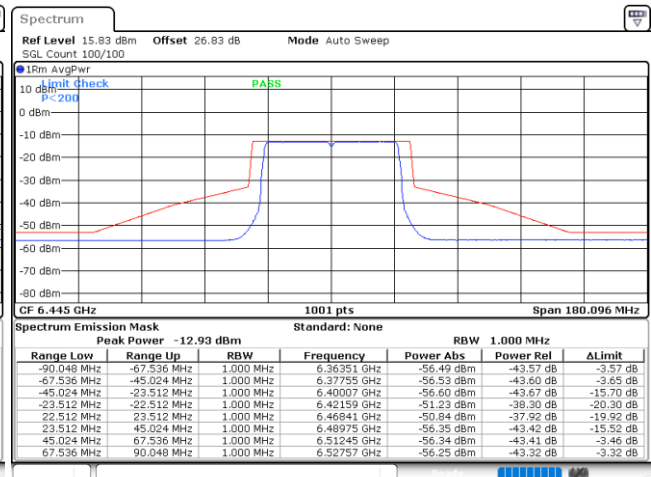
Date: 3.FEB.2025 17:05:40

Plot on 6405 MHz



Date: 3.FEB.2025 17:10:11

Plot on 6445 MHz



Date: 3.FEB.2025 17:14:33